

MANLEY

Powers the Winners



2022 DOMESTIC
High Performance Engine Components

MANLEY®

As we enter 2022, our 56th anniversary, upon reflection, the events of the past two years have been nothing short of extraordinary. Manley Performance was acquired by Race Winning Brands in late February 2020. It was an exciting time, but unfortunately short-lived, as only a mere two weeks post close, we were all faced with the beginnings of the COVID crisis. The world as we knew it completely changed.

I'm so incredibly proud of our team and how we navigated through the pandemic. Difficult but necessary decisions were made. Smart, strategic plans were properly executed to ensure our company's survival and, most importantly, keep our employees safe and healthy.

And, to top things off, in the midst of all the obstacles brought on by the pandemic, demand for our products not only bounced back, but skyrocketed to record levels. For this, I would like to thank our incredibly loyal customer base. Your overwhelming satisfaction with the quality of our products and your gratitude for our high level of customer service are what continue to drive us every day here at Manley Performance.

Our mission remains: to manufacture the finest internal engine components in the industry at fair, competitive prices and provide outstanding service to our customers.

Thank you for choosing Manley Performance products and I wish all of you a safe and prosperous 2022!

Trip Manley



MEET THE TEAM

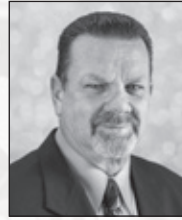
MANAGEMENT TEAM



Trip Manley
President



Michael Tokarchik
General Manager



Pete Coleman
Manufacturing Manager



Gil Morejon
Controller

OFFICE & SALES STAFF



Ryan Sammond
Operations Manager



Kari McNair
Purchasing Manager



Frank TenBroeck
Project Manager



Randy Longstreet
Product Manager



Jesse Vazquez
Sales Coordinator



Michael Pomeroy
Sales Representative
/ Drag Race Manager



Pride Conner
Sales / Tech
Representative



Kiara Tuminelli
Sales / Tech
Representative



Johnny Cilia
Sales / Tech
Representative



Neil Vernarelli
Sales / Tech
Representative



Sarajane Sheare
Customer and
Media Relations



Julie Morejon
Accounts Payable



Erin Simons
Accounts Receivable



Lynn Cordasco
Accounts Receivable



Kevin Lorentzen
Manager
Manley West



Garrett Brown
Sales / Tech
Manley West



Dick Boyer
Regional Sales
Manager
Central



Gary Mecklenburg
Regional Sales
Manager
West Coast

MANLEY®



MANLEY Performance Products, Inc.

1960 Swarthmore Ave

Lakewood, NJ 08701

Phone (732) 905-3366

Fax (732) 905-3010

East Coast Manufacturing Plant,
Distribution Center and Sales Office

9:00 AM - 5:30 PM EST



Manley West

10800 Valley View Street

Cypress CA 90630

Phone (714) 978-3335

Fax (714) 978-3354

West Coast Distribution Facility

12:00 PM - 8:30 PM EST

9:00 AM - 5:30 PM PST

Please visit our website at www.manleyperformance.com and look for us on:

facebook

[Facebook.com/ManleyPerformance](https://www.facebook.com/ManleyPerformance)

 **Instagram**

[Instagram.com/ManleyPerformance](https://www.instagram.com/ManleyPerformance)

YouTube

[YouTube.com/ManleyPerformance](https://www.youtube.com/ManleyPerformance)

SALES POLICY

Manley Performance urges the consumer to purchase all goods through an authorized dealer. Email or call for the names of the dealers in your area if you are not already familiar with them.

Prices: Due to the ever present fluctuation of material and labor costs, our prices are subject to change without notice.

Payment Terms: Qualified accounts may be extended open payment terms. We require five credit references to establish this open account status.

Freight: Orders exceeding \$2500 net will be shipped F.F.A. (Full Freight Allowance); excluding crankshafts and rotating assemblies. Orders exceeding \$3500 net will also be shipped F.F.A.; including crankshafts and rotating assemblies. The deduction of freight charges will be allowed providing the invoice is paid on or before the 10th of the month. Special shipping requests such as Air Freight, Express Mail, etc. will be billed to the account.

Returns: Policy specified on the back of the Price List.

Manley Performance Products, Inc.

1960 Swarthmore Avenue, Lakewood, NJ 08701
Phone (732) 905-3366 FAX (732) 905-3010

Manley West

10800 Valley View Street, Cypress CA 90630
Phone (714) 978-3335 FAX (714) 978-3354

Terms and conditions can be found on the back of all invoices.

WARRANTY DISCLAIMER

Due to the intended usage of the products in this catalog, they are sold WITHOUT WARRANTY OR ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR THE INTENDED PURPOSE. Installation of parts intended for "off-highway" use could adversely affect the vehicle manufacturer's warranty coverage.

All weights specified are approximate and subject to manufacturing tolerances.

WARNING

Some parts in this catalog have been designed and are intended for off-highway application only. Installation on a vehicle intended for use on public roads may violate U.S., Canadian, state or provincial laws and regulations including those relating to emission requirements and motor vehicle safety standards. These parts are NOT intended for ANY aircraft applications.

In California some parts may legally be used only on a racing vehicle which will never be operated on public roads.

PROPOSITION 65 WARNING

⚠ WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and reproductive harm. For more information go to www.P65Warnings.ca.gov.

If you distribute or resell Manley Performance Products, even if you only sell occasionally online, it is your obligation to keep all warnings and instructions on the product packaging and to pass them along to your customers by appropriate means. If you sell in stores located in California, you must sell the product with the Proposition 65 warnings on the box or packaging. If you sell into California on the internet or through catalogs, there are special requirements for providing these warnings to your customers before they complete their purchase transaction. See Title 27, California Code of Regulations, sections 25600 through 25607, and particularly section 25602, for details.

Apparel	187-188
Camshaft Spacers, Lock Plates and more	97
Connecting Rods.....	138-165
Crankshafts/Rotating Assemblies.....	166-185
Fastners	64-65
Guide Plates	63
LocCap System	59
Oil Pumps and Components	97,100
Pistons	101-132
Piston Rings	133-135
Pushrods.....	93-96
Retainers, Steel	86-88
Retainers, Titanium.....	82-85
Rocker Arms & Studs.....	62
Spring Shims, Spring Cups and I.D. Locators.....	88-91
Spring/Retainer Kits	69,72
Timing Chain Kits	98-99
Tools	61,92,186
Valve Guides	62
Valve Locks	54-58
Valve Springs.....	66-80
Valves, Stainless	4-44
Valves, Stainless Diesel.....	28
Valve Stem Seals.....	61
Valves, Titanium	45-53
Wear Caps.....	60
Wrist Pins.....	136-137

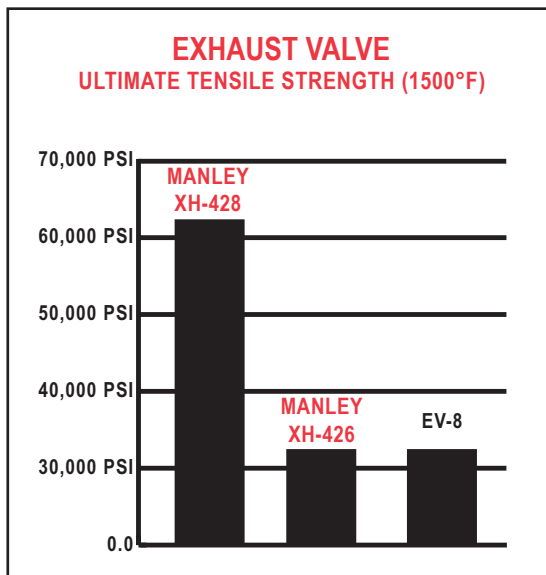
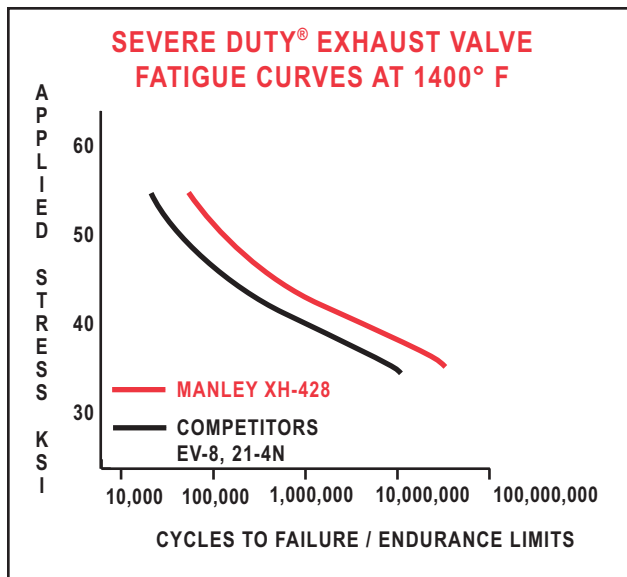
© COPYRIGHT - 2022 MANLEY PERFORMANCE PRODUCTS, INC. ALL RIGHTS RESERVED.

MANLEY®, SEVERE DUTY®, SPORTSMASTER®, TOUR LITE®, NEXTEK®, BEAD LOC®, AND TURBO TUFF® ARE REGISTERED TRADEMARKS OF MANLEY PERFORMANCE PRODUCTS, INC. GAPLESS® IS A REGISTERED TRADEMARK OF TOTAL SEAL, INC.

STAINLESS VALVES

Manley Performance is universally acknowledged as the leading manufacturer of performance and racing valves in the world.

The reason for Manley's overwhelming success is simple: **QUALITY**. We offer the best materials in the industry - exclusive materials our competitors do not possess. Our stems are hard coated with .0002" thick chrome rather than a few millionths of flash. Our hard tips are superior to competitors' puddled stellite which can crack and erode off the stem. Our valve head and underhead shapes have been in the forefront of the quest for improved flow since the late 1960's. And always each Manley valve has been price targeted to specific markets to ensure the best possible value to the customer.

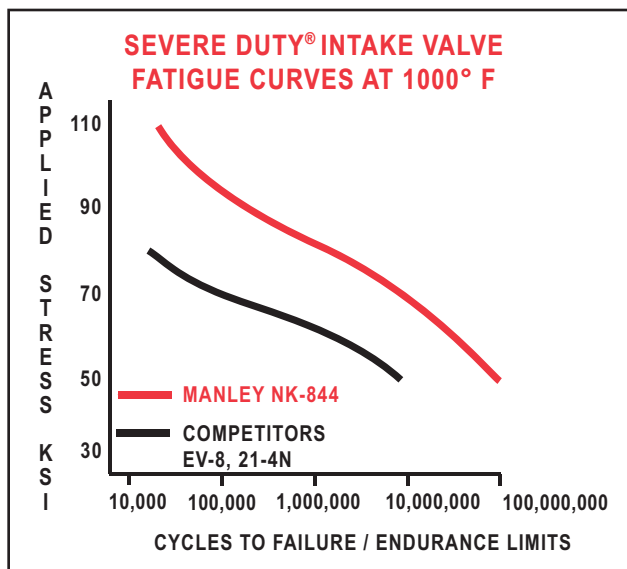


RACE MASTER VALVES

Race Master, and the Pro Flo versions identified as Race Flo valves, are manufactured of XH-426 material for the exhausts and NK-842 for the intakes. This series of valves is targeted at the bracket, drag and oval track racers operating below 8000 rpm - above which engine speed titanium valves are generally required. Any engine builder successfully using EV-8 alloy (21-4N) valves will find in this series of Manley valves a superior piece at a most attractive price. The Ultimate Tensile Strength charts on this page and the next, show the Manley Race Series to be equal to the best that the competitors have to offer.

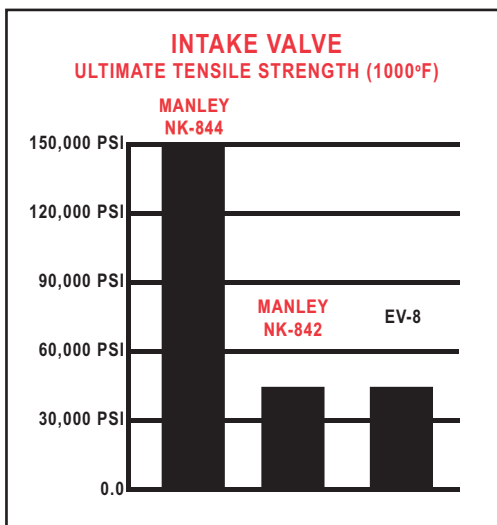
PERFORMANCE & STREET SERIES VALVES

Designed for the enthusiast preparing a stock or mildly modified street engine, or a bracket racer seeking maximum value for his dollar, the Performance or Street Series valves are the perfect choice. These dependable valves are also offered in Street Flo versions providing significant flow gains without head porting. All valves in both these series feature chrome stems, hard tips, swirl polished underhead areas, and fully machined combustion faces.



SEVERE DUTY® VALVES

The Severe Duty® series of valves is the Manley signature in the performance and racing industry. Exhaust material XH-428 and intake material NK-844 is offered by no competitor in the world. And no pair of materials show such clear dominance over all others. Ultimate tensile strength of XH-428 at 1500°F is nearly double the competitors' EV-8. At 1000°F the Manley NK-844 displays more than four times the ultimate tensile of the competition's best intake material.

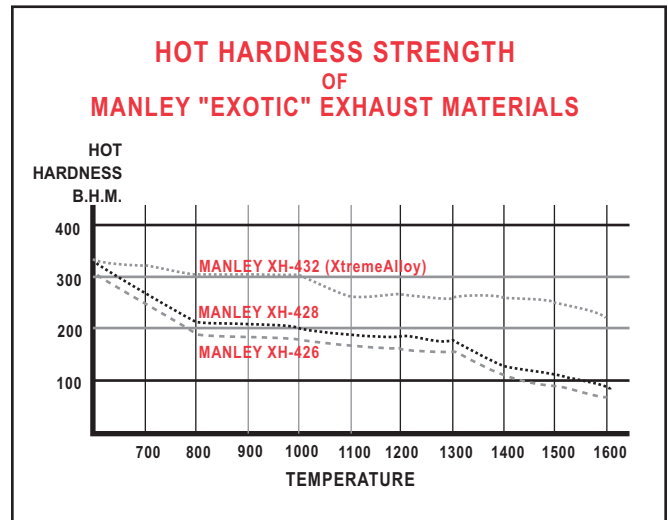


Further proof of the superiority of the Manley Severe Duty® valves is evident in our comprehensive fatigue tests. In normal operation where valve float is non-existent, a valve will experience 20,000 to 25,000 lbs of applied stress. However, when valves bounce on the seat the stress immediately soars to 40,000 to 60,000 lbs. Manley exhaust valves (at 40,000 psi and 1400°F) ran to 100,000,000 (one hundred million) cycles while competitors' offerings failed at 100,000 cycles. That's 1000 times better fatigue life.

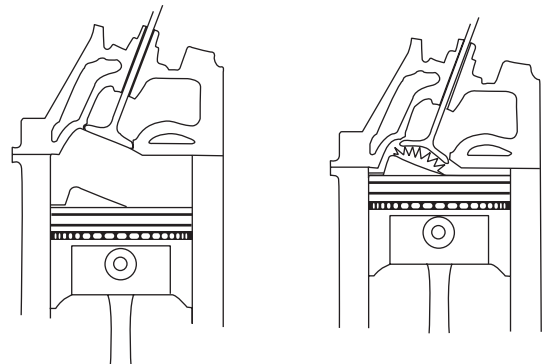
EXTREME DUTY VALVES

Top Fuel and Funny Car drag racers, Big Block Chevy marine enthusiasts, and Small Block Chevy restricted carburetor circle track competitors will all benefit by the use of XtremeAlloy exhaust valves. Exotic steel is required simply because of the enormous heat imposed on the exhaust valves in these applications.

The accompanying graph illustrates the complete superiority of our "exotic" steels over our own XH-428 as well as competitor's EV-8.



In addition to the vastly superior strength and fatigue characteristics of Manley NK-844, our exclusive intake material exhibits an uncanny ability to resist chordal fractures. In an excellent sealing combustion chamber, the intake valve is actually deformed by the fuel explosion and pushed up into the port. The effect of this continuous deformation on competitors' material eventually is a chordal fracture propagating from the circumference of the valve and quickly becoming a missing pie-shaped piece. Manley NK-844 is the absolute best choice of material to combat disastrous chordal fractures.



The illustration above shows an intake valve seated in the head with normal shape. The right illustration shows the valve being deformed under high combustion pressure.

STAINLESS VALVES

VALVES

A Manley Valve For Every Application

Choose from one of five series of stainless valves

PERFORMANCE SERIES

- ▶ Stainless Steel (XH-422 Exhaust and NK-840 Intake)
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ Stock and .100" Longer Lengths Available



STREET SERIES

- ▶ Stainless Steel (XH-424 Exhaust and NK-841 Intake)
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ Street Master (Straight Stem) and Street Flo Shapes Available



RACE SERIES

- ▶ Stainless Steel (XH-426 Exhaust and NK-842 Intake)
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ Race Master (Straight Stem) and Race Flo Shapes Available
- ▶ Recommended Exhaust Valves for Alcohol Engines



SEVERE DUTY® SERIES

- ▶ Superior Stainless for High Temperature Gasoline Engines
- ▶ Exhaust Material XH-428 with Double the Ultimate Tensile Strength (at 1500°F) over the competition
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ Intake Material NK-844 with 1000 Times Better Fatigue Strength than competitors' offerings

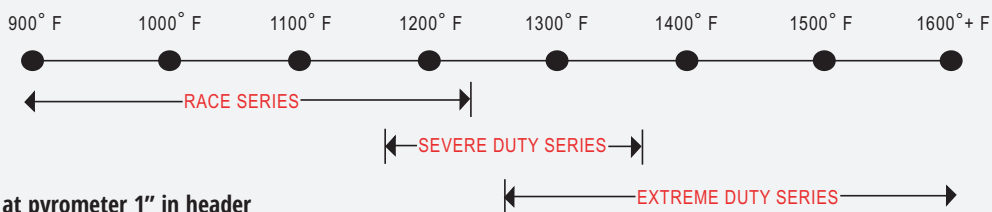


EXTREME DUTY SERIES

- ▶ Top Fuel, Funny Car and Marine Engine Exhaust Valves
- ▶ More Hot Hardness and High Temperature Strength than any competitive offerings
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ XH-432 XtremeAlloy



EXHAUST VALVE TEMPERATURE RANGE CHART



The "Pro Flo" Shape

A Manley Original

- ▶ Up to 40% flow increase in small port OE style cylinder heads
- ▶ Proven performance improvement on the flow bench

Test for: Hot Rod Magazine
 Tests performed by: Edelbrock
 Type of cylinder head: 1969 Camaro

AMOUNT OF NET VALVE LIFT	INTAKE IMPROVEMENT IN FLOW	EXHAUST IMPROVEMENT IN FLOW
.150"	42%	93%
.200"	37%	27%
.250"	25%	23%
.300"	12%	22%
.350"	7%	19%
.400"	5%	14%



Available in Three Series of Valves

Series	"Pro Flo" Designation
Street	Street Flo
Race	Race Flo
Severe Duty	Pro Flo

Stainless Steel & Titanium Valve Buyers Guide

Valve Type	Replacement and Mild Street Performance	Engine Builders Using EV-8 High Perf Street Bracket Racers Oval Track Sportsman Racers	Naturally Aspirated Alcohol Burning Engines	Drag Racing Over 8000 RPM	Offshore Powerboat and Hi Performance Marine	Sprint Car Dirt Late Model
Performance Series	Acceptable					
Street Series	Preferred					
Race Series	Extra Insurance	Acceptable	Preferred Exhaust When Titanium is Not Allowed		Not Recommended	
Severe Duty®		Preferred	Preferred Intake When Titanium is Not Allowed		Required Intake	
Extreme Duty		Preferred with Restricted Carburetor		Top Fuel Funny Car Exhaust Only	Required Exhaust	
Titanium			Preferred	Required Other Than Top Fuel or Funny Car	Race Only	Required

STAINLESS VALVES

VALVES

LS-1 / LS-2 (LS-6 Head) Small Block Chevy

Race Flo / Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ Intakes are "Pro Flo" for Improved Flow
- ▶ NK-842 Stainless Intake Material
- ▶ Swirl Polished and Machined
- ▶ O.E. Style Radius Keeper Grooves



Part No.	Type	Head Diam.	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11361-8	Exh.	1.550	.3136	Stock	4.923	.175	25° x 7/16"	.065	.115	18° Dish	87
11363-8	Exh.	1.575	.3136	Stock	4.923	.175	25° x 7/16"	.065	.115	18° Dish	89
11365-8	Exh.	1.600	.3136	Stock	4.923	.175	25° x 7/16"	.065	.115	18° Dish	91
11360-8	Int.	2.000	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	103
11360H-8	Int.	2.000	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	91
			Hollow Stem								
11362-8	Int.	2.020	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	105
11362H-8	Int.	2.020	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	93
			Hollow Stem								
11390-8	Int.	2.055	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	106
11390H-8	Int.	2.055	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	94
			Hollow Stem								
11398-8	Int.	2.080	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	107
11398H-8	Int.	2.080	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	95
			Hollow Stem								
11350-8	Int.	2.100	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	109
11350H-8	Int.	2.100	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	97
			Hollow Stem								

Severe Duty / Pro Flo Valves

- ▶ XH-428 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ Intakes are "Pro Flo" for Improved Flow
- ▶ NK-844 Stainless Intake Material
- ▶ Swirl Polished and Machined
- ▶ O.E. Style Radius Keeper Grooves

Part No.	Type	Head Diam.	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11673-8	Exh.	1.550	.3136	Stock	4.923	.175	25° x 7/16"	.065	.115	18° Dish	88
11675-8	Exh.	1.575	.3136	Stock	4.923	.175	25° x 7/16"	.065	.115	18° Dish	90
11677-8	Exh.	1.600	.3136	Stock	4.923	.175	25° x 7/16"	.065	.115	18° Dish	92
11680-8	Int.	2.055	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	107
11680H-8	Int.	2.055	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	95
			Hollow Stem								
11682-8	Int.	2.080	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	108
11682H-8	Int.	2.080	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	96
			Hollow Stem								
11684-8	Int.	2.100	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	110
11684H-8	Int.	2.100	.3133	Stock	4.874	.175	Pro Flo: 12° x 3/8"	.050	.095	7° Dish	98
			Hollow Stem								

Extreme Duty Exhaust Valves

- ▶ XH-432 XtremeAlloy Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Machined
- ▶ O.E. Style Radius Keeper Grooves

Part No.	Type	Head Diam.	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11681-8	Exh.	1.575	.3136	Stock	4.923	.175	25° x 7/16"	.065	.115	18° Dish	95
11683-8	Exh.	1.600	.3136	Stock	4.923	.175	25° x 7/16"	.065	.115	18° Dish	97

LS-3 / L-99 (L-92 Head) Small Block Chevy

Race Flo / Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ Intakes are "Pro Flo" for Improved Flow
- ▶ NK-842 Stainless Intake Material
- ▶ Swirl Polished and Machined
- ▶ O.E. Style Radius Keeper Grooves



Part No.	Type	Head Diam.	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11621-8	Exh.	1.590	.3136	Stock	4.923	.160	25° x 7/16"	.070	.115	18° Dish	93
12353-8	Exh.	1.600	.3136	.300 Longer	5.215	.160	25° x 7/16"	.065	.115	18° Dish	95
11620-8	Int.	2.165	.3133	Stock	4.900	.160	Pro Flo: 12° x 3/8"	.055	.100	7° Dish	117
11620H-8	Int.	2.165	.3133	Stock	4.900	.160	Pro Flo: 12° x 3/8"	.055	.100	7° Dish	108
			Hollow Stem								
12350-8	Int.	2.165	.3133	.300 Longer	5.200	.160	Pro Flo: 12° x 3/8"	.055	.100	7° Dish	119
12350H-8	Int.	2.165	.3133	.300 Longer	5.200	.160	Pro Flo: 12° x 3/8"	.055	.100	7° Dish	110
			Hollow Stem								

Severe Duty / Pro Flo Valves

- ▶ XH-428 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ Intakes are "Pro Flo" for Improved Flow
- ▶ NK-844 Stainless Intake Material
- ▶ Swirl Polished and Machined
- ▶ O.E. Style Radius Keeper Grooves

Part No.	Type	Head Diam.	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11661-8	Exh.	1.590	.3136	Stock	4.923	.160	25° x 7/16"	.070	.115	18° Dish	94
12355-8	Exh.	1.600	.3136	.300 Longer	5.215	.160	25° x 7/16"	.065	.115	18° Dish	96
11686-8	Int.	2.165	.3133	Stock	4.900	.160	Pro Flo: 12° x 3/8"	.055	.100	7° Dish	118
11686H-8	Int.	2.165	.3133	Stock	4.900	.160	Pro Flo: 12° x 3/8"	.055	.100	7° Dish	109
			Hollow Stem								
12354-8	Int.	2.165	.3133	.300 Longer	5.200	.160	Pro Flo: 12° x 3/8"	.055	.100	7° Dish	120
12354H-8	Int.	2.165	.3133	.300 Longer	5.200	.160	Pro Flo: 12° x 3/8"	.055	.100	7° Dish	111
			Hollow Stem								

Extreme Duty Exhaust Valves

- ▶ XH-432 XtremeAlloy Material
- ▶ Swirl Polished and Machined
- ▶ Chrome Stems and Hard Tips
- ▶ O.E. Style Radius Keeper Grooves

Part No.	Type	Head Diam.	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11685-8	Exh.	1.590	.3136	Stock	4.923	.160	25° x 7/16"	.070	.115	18° Dish	94
12357-8	Exh.	1.600	.3136	.300 Longer	5.215	.160	25° x 7/16"	.065	.115	18° Dish	96

STAINLESS VALVES

VALVES

LS-7 Small Block Chevy

Severe Duty / Pro Flo / Race Master Valves

- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Machined
- ▶ Intakes are "Pro Flo" for Improved Flow
- ▶ O.E. Style Radius Keeper Grooves



Part No.	Type	Head Diam.	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
RACE MASTER											
11689-8	Exh.	1.615	.3136	Stock	5.230	.290	25° x 7/16"	.075	.100	18° Dish	98
SEVERE DUTY / PRO FLO VALVES											
11679-8	Exh.	1.615	.3136	Stock	5.230	.290	25° x 7/16"	.075	.100	18° Dish	103
11688-8	Int.	2.205	.3133	Stock	5.200	.300	Pro Flo: 12° x 3/8"	.050	.100	7° Dish	120
11688H-8	Int.	2.205	.3133	Stock	5.200	.300	Pro Flo: 12° x 3/8"	.050	.100	7° Dish	110
Hollow Stem											

Extreme Duty Exhaust Valves

- ▶ XH-432 XtremeAlloy Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Machined
- ▶ O.E. Style Radius Keeper Grooves

Part No.	Type	Head Diam.	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11687-8	Exh.	1.615	.3136	Stock	5.230	.290	25° x 7/16"	.075	.100	18° Dish	103

Trick Flow Specialties (TFS) Chevy LS Cylinder Heads and Valve Application Chart

TFS Head	Int. Head Diam.	Manley Intake P/N's		Exh Head Diam.	Manley Exhaust P/N's		
		Race Series	Severe Duty		Race Series	Severe Duty	Xtreme Duty
LS1 205	2.000"	11360, 11360H	-----	1.575"	11363	11675	11681
LS1 215, 220	2.040"	Custom from Gen II	Custom from Gen II	1.575"	11363	11675	11681
LS 225, LS2 220	2.055"	11390, 11390H	11680, 11680H	1.575"	11363	11675	11681
LS 235	2.080"	11398, 11398H	11682, 11682H	1.600"	11365	11677	11683
LS 245	2.100"	11350, 11350H	11684, 11684H	1.600"	11365	11677	11683
LS3	2.165"	12350, 12350H	12354, 12354H	1.600"	12353	12355	12357
LS7	2.200"	-----	11688, 11688H	1.600"	12353	12355	12357

In the case where multiple part numbers options exist, choose from either our Race Series, Severe Duty or Xtreme Duty material depending on your application.
Note: "H" suffix indicates hollow stem

L83 5.3L Small Block Chevy 2014-Up

Race Flo / Race Master & Pro Flo / Severe Duty Valves

- ▶ Chrome Stems and Hard Tips
- ▶ Intakes are "Pro Flo" for Improved Flow
- ▶ Swirl Polished and Machined
- ▶ O.E. Style Radius Keeper Grooves

Part No.	Type	Head Diam.	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
RACE FLO / RACE MASTER VALVES											
12359-8	Exh.	1.560	.3136	Stock	5.208	.160	25° x 7/16"	.065	.110	18°	92
12356-8*	Int.	1.930	.3133	Stock	5.232	.160	Pro Flo 12° x 3/8"	.050	.100	7°	112
PRO FLO / SEVERE DUTY											
12361-8	Exh.	1.560	.3136	Stock	5.208	.160	25° x 7/16"	.065	.110	18°	93
12358-8*	Int.	1.930	.3133	Stock	5.232	.160	Pro Flo 12° x 3/8"	.050	.100	7°	113

* Valves 12356 and 12358 have a back cut of .050" x 30°

Extreme Duty Exhaust Valves

- ▶ XH-432 XtremeAlloy Material
- ▶ Swirl Polished and Machined
- ▶ Chrome Stems and Hard Tips
- ▶ O.E. Style Radius Keeper Grooves

Part No.	Type	Head Diam.	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
12363-8	Exh.	1.560	.3136	Stock	5.208	.160	25° x 7/16"	.065	.110	18°	98

LT1 6.2L Small Block Chevy 2014-Up

Race Flo / Race Master & Pro Flo / Severe Duty Valves

- ▶ Chrome Stems and Hard Tips
- ▶ Intakes are "Pro Flo" for Improved Flow
- ▶ Swirl Polished and Machined
- ▶ O.E. Style Radius Keeper Grooves



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
RACE FLO / RACE MASTER VALVES											
12345-8	Exh.	1.590	.3136	Stock	5.205	.160	25° x 7/16"	.075	.100	18° Dish	97
12348-8*	Int.	2.120	.3133	Stock	5.253	.170	Pro Flo 12° x 3/8"	.050	.070	7° Dish	124
PRO FLO / SEVERE DUTY											
12347-8	Exh.	1.590	.3136	Stock	5.205	.160	25° x 7/16"	.075	.100	18° Dish	97
12352-8*	Int.	2.120	.3133	Stock	5.253	.170	Pro Flo 12° x 3/8"	.050	.070	7° Dish	124

* Valves 12348 and 12352 have a back cut of .075" x 30°

Extreme Duty Exhaust Valves

- ▶ XH-432 XtremeAlloy Material
- ▶ Swirl Polished and Machined
- ▶ Chrome Stems and Hard Tips
- ▶ O.E. Style Radius Keeper Grooves

Part No.	Type	Head Diam.	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
12349-8	Exh.	1.590	.3136	Stock	5.205	.160	25° x 7/16"	.075	.100	18° Dish	102

Small Block Chevrolet

Budget Replacement Valves

- ▶ XH-422 Stainless Exhaust Material
- ▶ NK-840 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Original Underhead Shapes and Finishes



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
10077-8	Exh.	1.500	.3415	Stock	4.920	.290	0° x 11/32"	.100	.150	Dimple	106
10649-8	Exh.	1.600	.3415	Stock	4.910	.290	0° x 1/2"	.070	.150	Dimple	105
10476-8	Int.	1.940	.3415	Stock	4.880	.250	10° x 3/8"	.065	.125	Dimple	116
10650-8	Int.	2.020	.3415	Stock	4.880	.260	10° x 3/8"	.060	.120	Flat Face	117

Small Block Chevrolet

Budget Performance Valves

- ▶ XH-422 Stainless Exhaust Material
- ▶ NK-840 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
10577-8	Exh.	1.500	.3415	Stock	4.911	.250	15° x 1/2"	.060	.100	10° Dish	96
10549-8	Exh.	1.600	.3415	Stock	4.911	.250	15° x 1/2"	.060	.100	10° Dish	101
10551-8	Exh.	1.600	.3415	.100 Longer	5.011	.250	15° x 1/2"	.060	.100	10° Dish	103
10548-8	Int.	1.900	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	6° Dish	105
10576-8	Int.	1.940	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	6° Dish	105
10550-8	Int.	2.020	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	6° Dish	109
10552-8	Int.	2.020	.3415	.100 Longer	5.011	.250	10° x 3/8"	.050	.080	6° Dish	111
10554-8	Int.	2.055	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	6° Dish	110
10556-8	Int.	2.055	.3415	.100 Longer	5.011	.250	10° x 3/8"	.050	.080	6° Dish	112

Small Block Chevrolet

Street Flo Valves

- ▶ XH-424 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ Increased Flow with "Pro Flo" Underhead
- ▶ NK-841 Stainless Intake Material
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
10721-8	Exh.	1.500	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.060	.100	7° Dish	89
10705-8	Exh.	1.500	.3415	.100 Longer	5.035	.290	Pro Flo: 15° x 1/2"	.060	.100	9° Dish	93
10765-8	Exh.	1.600	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.060	.100	7° Dish	94
10745-8	Exh.	1.600	.3415	.100 Longer	5.065	.290	Pro Flo: 15° x 1/2"	.090	.100	9° Dish	95
10755-8	Exh.	1.600	.3415	.200 Longer	5.165	.290	Pro Flo: 15° x 1/2"	.090	.100	9° Dish	96
10797-8	Exh.	1.625	.3415	.100 Longer	5.065	.290	Pro Flo: 15° x 1/2"	.090	.100	9° Dish	98
10722-8	Int.	1.940	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.050	.080	5° Dish	107
10724-8	Int.	1.940	.3415	.100 Longer	5.025	.290	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	108
10764-8	Int.	2.000	.3415	Stock	4.911	.250	Pro Flo: 10° x 3/8"	.050	.080	6° Dish	108
10766-8	Int.	2.020	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.050	.080	5° Dish	109
10796-8	Int.	2.020	.3415	.100 Longer	5.040	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	115
10798-8	Int.	2.020	.3415	.200 Longer	5.125	.290	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	116
10768-8	Int.	2.055	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.050	.080	5° Dish	115
10746-8	Int.	2.055	.3415	.100 Longer	5.040	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	116
10760-8	Int.	2.080	.3415	.100 Longer	5.040	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	117
10762-8	Int.	2.080	.3415	.200 Longer	5.140	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	118
10770-8	Int.	2.100	.3415	.100 Longer	5.040	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	118

The 10764 will work on the new Chevy Vortec Bowtie cylinder head casting numbers 25534351C and 25534371C.

Small Block Chevrolet

Street Master Valves

- ▶ XH-424 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ Straight Stems
- ▶ NK-841 Stainless Intake Material
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
10777-8	Exh.	1.500	.3415	Stock	4.911	.250	15° x 1/2"	.060	.100	10° Dish	96
10747-8	Exh.	1.560	.3415	Stock	4.911	.250	15° x 1/2"	.060	.100	10° Dish	99
10749-8	Exh.	1.600	.3415	Stock	4.911	.250	15° x 1/2"	.060	.100	10° Dish	101
10751-8	Exh.	1.600	.3415	.100 Longer	5.011	.250	15° x 1/2"	.060	.100	10° Dish	103
10776-8	Int.	1.940	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	6° Dish	105
10750-8	Int.	2.020	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	6° Dish	109
10752-8	Int.	2.020	.3415	.100 Longer	5.011	.250	10° x 3/8"	.050	.080	6° Dish	111
10754-8	Int.	2.055	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	6° Dish	110
10756-8	Int.	2.055	.3415	.100 Longer	5.011	.250	10° x 3/8"	.050	.080	6° Dish	112

The 10747 will work on the new Chevy Vortec Bowtie cylinder head casting numbers 25534351C and 25534371C.

STAINLESS VALVES

VALVES

Small Block Chevrolet Race Flo Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ Increased Flow with "Pro Flo" Underhead



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11521-8	Exh.	1.500	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.060	.100	7° Dish	89
11505-8	Exh.	1.500	.3415	.100 Longer	5.035	.290	Pro Flo: 15° x 1/2"	.060	.100	9° Dish	93
11501-8	Exh.	1.560	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.060	.100	7° Dish	91
11565-8	Exh.	1.600	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.060	.100	7° Dish	94
11545-8	Exh.	1.600	.3415	.100 Longer	5.065	.290	Pro Flo: 15° x 1/2"	.090	.100	9° Dish	95
11555-8	Exh.	1.600	.3415	.200 Longer	5.165	.290	Pro Flo: 15° x 1/2"	.090	.100	9° Dish	96
11559-8	Exh.	1.600	.3415	.300 Longer	5.265	.290	Pro Flo: 15° x 1/2"	.090	.100	9° Dish	97
11797-8	Exh.	1.625	.3415	.100 Longer	5.065	.290	Pro Flo: 15° x 1/2"	.090	.100	9° Dish	98
11799-8	Exh.	1.625	.3415	.200 Longer	5.165	.290	Pro Flo: 15° x 1/2"	.090	.100	9° Dish	99
11506-8	Int.	1.840	.3415	Stock	4.911	.250	Pro Flo: 10° x 3/8"	.060	.080	5° Dish	104
11522-8	Int.	1.940	.3415	Stock	4.911	.250	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	107
11356-8	Int.	1.940	.3415	.100 Longer	5.040	.290	Pro Flo: 12° x 3/8"	.050	.100	7° Dish	108
11500-8	Int.	2.000	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	109
11566-8	Int.	2.020	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.050	.080	5° Dish	113
11796-8	Int.	2.020	.3415	.100 Longer	5.040	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	115
11798-8	Int.	2.020	.3415	.200 Longer	5.125	.290	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	116
11568-8	Int.	2.055	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.050	.080	5° Dish	115
11546-8	Int.	2.055	.3415	.100 Longer	5.040	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	116
11552-8	Int.	2.055	.3415	.200 Longer	5.140	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	117
11556-8	Int.	2.055	.3415	.300 Longer	5.240	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	118
11558-8	Int.	2.080	.3415	Stock	4.940	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	115
11560-8	Int.	2.080	.3415	.100 Longer	5.040	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	117
11564-8	Int.	2.080	.3415	.200 Longer	5.140	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	118
11574-8	Int.	2.080	.3415	.300 Longer	5.240	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	119
11576-8	Int.	2.100	.3415	.100 Longer	5.040	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	118
11584-8	Int.	2.100	.3415	.200 Longer	5.140	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	119
11594-8	Int.	2.100	.3415	.300 Longer	5.240	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	120
11774-8	Int.	2.125	.3415	.100 Longer	5.040	.290	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	119
11776-8	Int.	2.125	.3415	.200 Longer	5.140	.290	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	120
11778-8	Int.	2.125	.3415	.300 Longer	5.240	.290	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	121

Exhaust valve P/N's 11501, 11521, 11565, and intake valve P/N's 11500, 11522, 11566, and 11568 have a Pro Flo start of 1.400" from the head. All others have a Pro Flo start of 1.600" from the head.

Need a different length? Head diameter not listed? Prefer a BeadLoc® groove?
See pages 42 & 43 for Gen II blanks to construct a valve to your exact specifications.

Small Block Chevrolet

Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ Straight Stems



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11861-8	Exh.	1.500	.3415	Stock	4.951	.290	15° x 1/2"	.060	.100	9° Dish	96
11301-8	Exh.	1.500	.3415	.100 Longer	5.065	.290	15° x 1/2"	.090	.100	9° Dish	103
11863-8	Exh.	1.600	.3415	Stock	4.951	.290	15° x 1/2"	.060	.100	9° Dish	102
11877-8	Exh.	1.600	.3415	.100 Longer	5.065	.290	15° x 1/2"	.090	.100	9° Dish	109
11321-8	Exh.	1.600	.3415	.200 Longer	5.165	.290	15° x 1/2"	.090	.100	9° Dish	110
11323-8	Exh.	1.600	.3415	.300 Longer	5.265	.290	15° x 1/2"	.090	.100	9° Dish	111
11325-8	Exh.	1.600	.3415	.400 Longer	5.365	.290	15° x 1/2"	.090	.100	9° Dish	112
11327-8	Exh.	1.600	.3415	.500 Longer	5.465	.290	15° x 1/2"	.090	.100	9° Dish	113
11329-8	Exh.	1.625	.3415	Stock	4.965	.290	15° x 1/2"	.090	.100	9° Dish	103
11879-8	Exh.	1.625	.3415	.100 Longer	5.065	.290	15° x 1/2"	.090	.100	9° Dish	110
11331-8	Exh.	1.625	.3415	.200 Longer	5.165	.290	15° x 1/2"	.090	.100	9° Dish	112
11333-8	Exh.	1.625	.3415	.300 Longer	5.265	.290	15° x 1/2"	.090	.100	9° Dish	114
11860-8	Int.	1.940	.3415	Stock	4.951	.290	10° x 3/8"	.050	.080	5° Dish	109
11300-8	Int.	1.940	.3415	.100 Longer	5.040	.290	10° x 3/8"	.050	.080	5° Dish	111
11864-8	Int.	2.020	.3415	Stock	4.951	.290	10° x 3/8"	.050	.080	5° Dish	114
11318-8	Int.	2.020	.3415	.100 Longer	5.040	.290	10° x 3/8"	.050	.080	5° Dish	116
11316-8	Int.	2.020	.3415	.200 Longer	5.140	.290	12° x 3/8"	.065	.080	7° Dish	122
11806-8	Int.	2.055	.3415	Stock	4.940	.290	12° x 3/8"	.065	.080	7° Dish	118
11810-8	Int.	2.055	.3415	.100 Longer	5.040	.290	12° x 3/8"	.065	.080	7° Dish	120
11808-8	Int.	2.080	.3415	Stock	4.940	.290	12° x 3/8"	.065	.080	7° Dish	124
11812-8	Int.	2.080	.3415	.100 Longer	5.040	.290	12° x 3/8"	.065	.080	7° Dish	126
11320-8	Int.	2.080	.3415	.200 Longer	5.140	.290	12° x 3/8"	.065	.080	7° Dish	127
11322-8	Int.	2.080	.3415	.300 Longer	5.240	.290	12° x 3/8"	.065	.080	7° Dish	129
11324-8	Int.	2.080	.3415	.400 Longer	5.340	.290	12° x 3/8"	.065	.080	7° Dish	131
11326-8	Int.	2.080	.3415	.500 Longer	5.440	.290	12° x 3/8"	.065	.080	7° Dish	133
11328-8	Int.	2.100	.3415	.100 Longer	5.040	.290	12° x 3/8"	.065	.080	7° Dish	127
11330-8	Int.	2.100	.3415	.200 Longer	5.140	.290	12° x 3/8"	.065	.080	7° Dish	128
11332-8	Int.	2.100	.3415	.300 Longer	5.240	.290	12° x 3/8"	.065	.080	7° Dish	129
11334-8	Int.	2.100	.3415	.400 Longer	5.340	.290	12° x 3/8"	.065	.080	7° Dish	132
11336-8	Int.	2.100	.3415	.500 Longer	5.440	.290	12° x 3/8"	.065	.080	7° Dish	134
11340-8	Int.	2.125	.3415	.100 Longer	5.040	.290	12° x 3/8"	.065	.080	7° Dish	130
11342-8	Int.	2.125	.3415	.200 Longer	5.140	.290	12° x 3/8"	.065	.080	7° Dish	132
11344-8	Int.	2.125	.3415	.300 Longer	5.240	.290	12° x 3/8"	.065	.080	7° Dish	134
11346-8	Int.	2.125	.3415	.400 Longer	5.340	.290	12° x 3/8"	.065	.080	7° Dish	136
11348-8	Int.	2.125	.3415	.500 Longer	5.440	.290	12° x 3/8"	.065	.080	7° Dish	138

Need a different length? Head diameter not listed? Prefer a BeadLoc® groove?
See pages 42 & 43 for Gen II blanks to construct a valve to your exact specifications.

STAINLESS VALVES

VALVES

Small Block Chevrolet

AFR 180cc, 190cc, 195cc, 210cc, 220cc, 227cc, 235cc, 245cc Series Cylinder Heads

Race Flo / Race Master & Pro Flo / Severe Duty Valves

- ▶ Lightweight 8mm stems
- ▶ LS (.060" single radius) style keeper grooves

Use Manley valve lock P/N 13098-16 (7°) or 13153-16 (10°) depending on your spring/retainer choice. Manley stem sizes are .3136" (exh.) and .3133" (int.) respectively. AFR heads have guides sized to .3147" (nominal). Manley strongly recommends that all guides be checked and correctly sized (machine work required) for the Manley valve stem sizes listed to achieve the proper clearances. We can also build any of these exhaust valves from our Extreme Duty valve P/N 11275, found on page 42.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
RACE FLO / RACE MASTER VALVES											
12301-8	Exh.	1.600	.3136	Stock	4.950	.260	25° x 7/16"	.070	.100	18° Dish	94
12303-8	Exh.	1.600	.3136	.100 Longer	5.050	.260	25° x 7/16"	.070	.100	18° Dish	95
12300-8	Int.	2.020	.3133	Stock	4.935	.260	Pro Flo 12° x 3/8"	.055	.100	7° Dish	108
12302-8	Int.	2.020	.3133	.100 Longer	5.035	.260	Pro Flo 12° x 3/8"	.055	.100	7° Dish	110
12304-8	Int.	2.050	.3133	Stock	4.935	.260	Pro Flo 12° x 3/8"	.055	.100	7° Dish	112
12306-8	Int.	2.050	.3133	.100 Longer	5.035	.260	Pro Flo 12° x 3/8"	.055	.100	7° Dish	112
12308-8	Int.	2.080	.3133	Stock	4.935	.260	Pro Flo 12° x 3/8"	.055	.100	7° Dish	113
12310-8	Int.	2.080	.3133	.100 Longer	5.035	.260	Pro Flo 12° x 3/8"	.055	.100	7° Dish	114
12312-8	Int.	2.100	.3133	.100 Longer	5.035	.260	Pro Flo 12° x 3/8"	.055	.100	7° Dish	115
PRO FLO / SEVERE DUTY VALVES											
12335-8	Exh.	1.600	.3136	Stock	4.950	.260	25° x 7/16"	.070	.100	18° Dish	94
12337-8	Exh.	1.600	.3136	.100 Longer	5.050	.260	25° x 7/16"	.070	.100	18° Dish	95
12334-8	Int.	2.080	.3133	Stock	4.935	.260	Pro Flo 12° x 3/8"	.055	.100	7° Dish	113
12336-8	Int.	2.080	.3133	.100 Longer	5.035	.260	Pro Flo 12° x 3/8"	.055	.100	7° Dish	114
12338-8	Int.	2.100	.3133	.100 Longer	5.035	.260	Pro Flo 12° x 3/8"	.055	.100	7° Dish	115
12346-8	Int.	2.125	.3133	.100 Longer	5.035	.260	Pro Flo 12° x 3/8"	.055	.100	7° Dish	117

Small Block Chevrolet

Race Master Valves 5/16" (.311") Stem

- ▶ No Need for Inserted Tips or Wear Caps
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ Thin Stem for Increased Flow and Light Weight

These .311" stem valves are ONLY available with Bead Loc® keeper grooves. Bead Loc® valve locks are REQUIRED.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11305-8	Exh.	1.600	.3110	.100 Longer	5.040	.290	15° x 1/2"	.080	.100	9° Dish	94
11319-8	Exh.	1.600	.3110	.200 Longer	5.140	.290	15° x 1/2"	.080	.100	9° Dish	95
11335-8	Exh.	1.600	.3110	.300 Longer	5.240	.290	15° x 1/2"	.080	.100	9° Dish	96
11341-8	Exh.	1.600	.3110	.600 Longer	5.540	.290	15° x 1/2"	.080	.100	9° Dish	99
11343-8	Exh.	1.600	.3110	.700 Longer	5.640	.290	15° x 1/2"	.080	.100	9° Dish	100
11303-8	Exh.	1.625	.3110	.100 Longer	5.040	.290	15° x 1/2"	.080	.100	9° Dish	97
11345-8	Exh.	1.625	.3110	.300 Longer	5.240	.290	15° x 1/2"	.080	.100	9° Dish	99
11347-8	Exh.	1.625	.3110	.600 Longer	5.540	.290	15° x 1/2"	.080	.100	9° Dish	102
11349-8	Exh.	1.625	.3110	.700 Longer	5.640	.290	15° x 1/2"	.080	.100	9° Dish	103
11302-8	Int.	1.940	.3110	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	105
11304-8	Int.	2.020	.3110	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	108
11306-8	Int.	2.055	.3110	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	110
11704-8	Int.	2.055	.3110	.200 Longer	5.110	.290	10° x 3/8"	.050	.080	5° Dish	112
11706-8	Int.	2.080	.3110	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	112
11708-8	Int.	2.080	.3110	.200 Longer	5.110	.290	10° x 3/8"	.050	.080	5° Dish	113
12314-8	Int.	2.100	.3110	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	114
12316-8	Int.	2.100	.3110	.200 Longer	5.110	.290	10° x 3/8"	.050	.080	5° Dish	115
12318-8	Int.	2.125	.3110	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	116
12320-8	Int.	2.125	.3110	.200 Longer	5.110	.290	10° x 3/8"	.050	.080	5° Dish	117
12322-8	Int.	2.180	.3110	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	119
12324-8	Int.	2.180	.3110	.200 Longer	5.110	.290	10° x 3/8"	.050	.080	5° Dish	120
12326-8	Int.	2.200	.3110	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	121
12328-8	Int.	2.200	.3110	.200 Longer	5.110	.290	10° x 3/8"	.050	.080	5° Dish	122

Small Block Chevrolet

Severe Duty® Valves

7mm (.274") Stem

- ▶ No Need for Inserted Tips or Wear Caps
- ▶ NK-844 Stainless Intake Material
- ▶ Swirl Polished and Fully Machined
- ▶ XH-428 Stainless Material
- ▶ Chrome Stems and Hard Tips
- ▶ Thin Stem for Increased Flow and Light Weight

These .274" stem valves are ONLY available with Bead Loc® keeper grooves. Bead Loc® valve locks are REQUIRED.

See page 61 for guides, seals and cutters required for installation of these valves.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11235-8	Exh.	1.600	.2740	.100 Longer	5.040	.290	15° x 1/2"	.080	.100	9° Dish	84
11236-8	Int.	1.940	.2740	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	95
11238-8	Int.	2.020	.2740	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	98
11240-8	Int.	2.055	.2740	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	100

Small Block Chevrolet

Severe Duty® Valves

5/16" (.311") Stem

- ▶ No Need for Inserted Tips or Wear Caps
- ▶ NK-844 Stainless Intake Material
- ▶ Swirl Polished and Fully Machined
- ▶ XH-428 Stainless Material
- ▶ Chrome Stems and Hard Tips
- ▶ Thin Stem for Increased Flow and Light Weight

Hollow .311" stem Gen II blank P/N 11224H can be found on page 42 to support your custom requirements.

These .311" stem valves are ONLY available with Bead Loc® keeper grooves. Bead Loc® valve locks are REQUIRED.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11231-8	Exh.	1.600	.3110	.100 Longer	5.040	.290	15° x 1/2"	.080	.100	9° Dish	94
11351-8	Exh.	1.600	.3110	.200 Longer	5.140	.290	15° x 1/2"	.080	.100	9° Dish	95
11357-8	Exh.	1.600	.3110	.300 Longer	5.240	.290	15° x 1/2"	.080	.100	9° Dish	96
11359-8	Exh.	1.600	.3110	.600 Longer	5.540	.290	15° x 1/2"	.080	.100	9° Dish	99
11387-8	Exh.	1.600	.3110	.700 Longer	5.640	.290	15° x 1/2"	.080	.100	9° Dish	100
11389-8	Exh.	1.625	.3110	.300 Longer	5.240	.290	15° x 1/2"	.080	.100	9° Dish	99
11397-8	Exh.	1.625	.3110	.600 Longer	5.540	.290	15° x 1/2"	.080	.100	9° Dish	102
11399-8	Exh.	1.625	.3110	.700 Longer	5.640	.290	15° x 1/2"	.080	.100	9° Dish	103
11230-8	Int.	1.940	.3110	.100 Longer	5.010	.290	12° x 3/8"	.050	.080	7° Dish	105
11232-8	Int.	2.020	.3110	.100 Longer	5.010	.290	12° x 3/8"	.050	.080	7° Dish	108
11234-8	Int.	2.055	.3110	.100 Longer	5.010	.290	12° x 3/8"	.050	.080	7° Dish	110
11234H-8	Int.	2.055	.3110	.100 Longer	5.010	.290	12° x 3/8"	.050	.080	7° Dish	98
			Hollow Stem								
11710-8	Int.	2.055	.3110	.200 Longer	5.110	.290	12° x 3/8"	.050	.080	7° Dish	112
11710H-8	Int.	2.055	.3110	.200 Longer	5.110	.290	12° x 3/8"	.050	.080	7° Dish	100
			Hollow Stem								
11712-8	Int.	2.080	.3110	.100 Longer	5.010	.290	12° x 3/8"	.050	.080	7° Dish	112
11712H-8	Int.	2.080	.3110	.100 Longer	5.010	.290	12° x 3/8"	.050	.080	7° Dish	100
			Hollow Stem								
11714-8	Int.	2.080	.3110	.200 Longer	5.110	.290	12° x 3/8"	.050	.080	7° Dish	113
11714H-8	Int.	2.080	.3110	.200 Longer	5.110	.290	12° x 3/8"	.050	.080	7° Dish	101
			Hollow Stem								

Need a different length? Head diameter not listed? Prefer a BeadLoc® groove?
See pages 42 & 43 for Gen II blanks to construct a valve to your exact specifications.

STAINLESS VALVES

VALVES

Small Block Chevrolet Severe Duty® Exhaust Valves

- ▶ XH-428 Stainless Material
- ▶ Chrome Stems
- ▶ Hard Tips
- ▶ Swirl Polished
- ▶ Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11567-8	Exh.	1.500	.3415	Stock	4.911	.250	10° x 3/8"	.060	.100	7° Dish	92
11887-8	Exh.	1.500	.3415	.100 Longer	5.036	.250	15° x 1/2"	.085	.085	10° Dish	94
11747-8	Exh.	1.500	.3415	.200 Longer	5.140	.290	15° x 1/2"	.085	.100	9° Dish	101
11543-8	Exh.	1.600	.3415	Stock	4.911	.250	10° x 3/8"	.060	.100	7° Dish	95
11595-8	Exh.	1.600	.3415	Stock	4.936	.250	10° x 3/8"	.085	.085	Flat Face	100
11539-8	Exh.	1.600	.3415	.100 Longer	5.036	.250	10° x 3/8"	.085	.085	7° Dish	102
11865-8	Exh.	1.600	.3415	.200 Longer	5.121	.250	15° x 1/2"	.070	.100	9° Dish	105
11551-8	Exh.	1.600	.3415	Stock	4.921	.250	30° x 1/2"	.070	.100	25° Dish	106
11869-8	Exh.	1.600	.3415	.100 Longer	5.021	.250	30° x 1/2"	.070	.100	25° Dish	109
11771-8	Exh.	1.600	.3415	.200 Longer	5.121	.250	30° x 1/2"	.070	.100	25° Dish	111
11785-8	Exh.	1.600	.3415	.300 Longer	5.221	.250	30° x 1/2"	.070	.100	25° Dish	113
11573-8	Exh.	1.600	.3415	Stock	4.965	.290	15° x 1/2"	.090	.100	9° Dish	107
11749-8	Exh.	1.600	.3415	.100 Longer	5.065	.290	15° x 1/2"	.090	.100	9° Dish	108
11751-8	Exh.	1.600	.3415	.200 Longer	5.165	.290	15° x 1/2"	.090	.100	9° Dish	110
11753-8	Exh.	1.600	.3415	.300 Longer	5.265	.290	15° x 1/2"	.090	.100	9° Dish	111
11755-8	Exh.	1.600	.3415	.400 Longer	5.365	.290	15° x 1/2"	.090	.100	9° Dish	112
11513-8	Exh.	1.600	.3415	.500 Longer	5.465	.290	15° x 1/2"	.090	.100	9° Dish	113
11767-8	Exh.	1.600	.3415	.600 Longer	5.565	.290	15° x 1/2"	.090	.100	9° Dish	114
11541-8	Exh.	1.625	.3415	Stock	4.911	.250	15° x 1/2"	.060	.100	9° Dish	95
11585-8	Exh.	1.625	.3415	Stock	4.936	.250	15° x 1/2"	.085	.100	9° Dish	106
11537-8	Exh.	1.625	.3415	.100 Longer	5.036	.250	15° x 1/2"	.085	.100	9° Dish	102
11871-8	Exh.	1.625	.3415	.200 Longer	5.121	.250	15° x 1/2"	.070	.100	9° Dish	105
11557-8	Exh.	1.625	.3415	Stock	4.921	.250	30° x 1/2"	.070	.100	25° Dish	109
11569-8	Exh.	1.625	.3415	.100 Longer	5.021	.250	30° x 1/2"	.070	.100	25° Dish	111
11571-8	Exh.	1.625	.3415	.200 Longer	5.121	.250	30° x 1/2"	.070	.100	25° Dish	113
11579-8	Exh.	1.625	.3415	.300 Longer	5.221	.250	30° x 1/2"	.070	.100	25° Dish	115
11851-8	Exh.	1.625	.3415	.100 Longer	5.065	.290	15° x 1/2"	.090	.100	9° Dish	109
11577-8	Exh.	1.625	.3415	.200 Longer	5.165	.290	15° x 1/2"	.090	.100	9° Dish	115
11757-8	Exh.	1.625	.3415	.300 Longer	5.265	.290	15° x 1/2"	.090	.100	9° Dish	116
11759-8	Exh.	1.625	.3415	.400 Longer	5.365	.290	15° x 1/2"	.090	.100	9° Dish	117
11511-8	Exh.	1.625	.3415	.500 Longer	5.465	.290	15° x 1/2"	.090	.100	9° Dish	118
11763-8	Exh.	1.625	.3415	.600 Longer	5.565	.290	15° x 1/2"	.090	.100	9° Dish	122

Need a different length? Head diameter not listed? Prefer a BeadLoc® groove?
See pages 42 & 43 for Gen II blanks to construct a valve to your exact specifications.

Small Block Chevrolet Severe Duty® Intake Valves

- ▶ NK-844 Stainless Material
- ▶ Hard Tips
- ▶ Fully Machined
- ▶ Chrome Stems
- ▶ Swirl Polished



Want a hollow stem Severe Duty® intake? It's as easy as 1-2-3. Refer to Gen II blank P/N 11254H on page 42 to support your custom requirements.

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
12342-8	Int.	1.720	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	5° Dish	97
11540-8	Int.	1.720	.3415	.100 Longer	5.011	.250	10° x 3/8"	.050	.080	5° Dish	99
11716-8	Int.	1.720	.3415	.200 Longer	5.140	.290	10° x 3/8"	.050	.100	5° Dish	103
11542-8	Int.	1.840	.3415	.100 Longer	5.011	.250	10° x 3/8"	.050	.080	5° Dish	106
11820-8	Int.	1.840	.3415	.200 Longer	5.140	.290	10° x 3/8"	.050	.100	5° Dish	110
11592-8	Int.	1.937	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	5° Dish	109
11886-8	Int.	1.940	.3415	.100 Longer	5.011	.250	10° x 3/8"	.050	.100	5° Dish	111
11748-8	Int.	1.940	.3415	.200 Longer	5.140	.290	10° x 3/8"	.050	.100	5° Dish	115
11596-8	Int.	2.020	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	7° Dish	111
11826-8	Int.	2.020	.3415	.100 Longer	5.026	.250	10° x 3/8"	.065	.080	5° Dish	113
11544-8	Int.	2.020	.3415	.200 Longer	5.140	.290	10° x 3/8"	.065	.080	5° Dish	125
11598-8	Int.	2.055	.3415	Stock	4.911	.250	12° x 3/8"	.050	.080	7° Dish	113
11828-8	Int.	2.055	.3415	Stock	4.926	.250	12° x 3/8"	.065	.080	Flat Face	128
11846-8	Int.	2.055	.3415	.100 Longer	5.026	.250	12° x 3/8"	.065	.080	7° Dish	125
11700-8	Int.	2.055	.3415	.200 Longer	5.140	.290	12° x 3/8"	.065	.080	7° Dish	127
11818-8	Int.	2.080	.3415	Stock	4.926	.250	12° x 3/8"	.065	.080	Flat Face	131
11844-8	Int.	2.080	.3415	.100 Longer	5.026	.250	12° x 3/8"	.065	.080	7° Dish	126
11858-8	Int.	2.080	.3415	.200 Longer	5.140	.290	12° x 3/8"	.065	.080	7° Dish	129
11762-8	Int.	2.080	.3415	.300 Longer	5.240	.290	12° x 3/8"	.065	.080	7° Dish	131
11764-8	Int.	2.080	.3415	.400 Longer	5.340	.290	12° x 3/8"	.065	.080	7° Dish	132
11512-8	Int.	2.080	.3415	.500 Longer	5.440	.290	12° x 3/8"	.065	.080	7° Dish	134
11852-8	Int.	2.100	.3415	.100 Longer	5.026	.250	12° x 3/8"	.065	.080	7° Dish	128
11862-8	Int.	2.100	.3415	.200 Longer	5.140	.290	12° x 3/8"	.065	.080	7° Dish	131
11750-8	Int.	2.100	.3415	.300 Longer	5.240	.290	12° x 3/8"	.065	.080	7° Dish	132
11752-8	Int.	2.100	.3415	.400 Longer	5.340	.290	12° x 3/8"	.065	.080	7° Dish	133
11510-8	Int.	2.100	.3415	.500 Longer	5.440	.290	12° x 3/8"	.065	.080	7° Dish	135
11770-8	Int.	2.100	.3415	.600 Longer	5.540	.290	12° x 3/8"	.065	.080	7° Dish	137
11848-8	Int.	2.125	.3415	.100 Longer	5.026	.250	12° x 3/8"	.065	.080	7° Dish	131
11866-8	Int.	2.125	.3415	.200 Longer	5.125	.250	12° x 3/8"	.065	.080	7° Dish	132
11754-8	Int.	2.125	.3415	.300 Longer	5.240	.290	12° x 3/8"	.065	.080	7° Dish	133
11756-8	Int.	2.125	.3415	.400 Longer	5.340	.290	12° x 3/8"	.065	.080	7° Dish	134
11508-8	Int.	2.125	.3415	.500 Longer	5.440	.290	12° x 3/8"	.065	.080	7° Dish	135
11768-8	Int.	2.125	.3415	.600 Longer	5.540	.290	12° x 3/8"	.065	.080	7° Dish	137
11758-8	Int.	2.150	.3415	.400 Longer	5.340	.290	12° x 3/8"	.065	.080	7° Dish	133
11760-8	Int.	2.150	.3415	.500 Longer	5.440	.290	12° x 3/8"	.065	.080	7° Dish	135
11766-8	Int.	2.150	.3415	.600 Longer	5.540	.290	12° x 3/8"	.065	.080	7° Dish	137

Need a different length? Head diameter not listed? Prefer a BeadLoc® groove?
See pages 42 & 43 for Gen II blanks to construct a valve to your exact specifications.

Small Block Chevrolet

Severe Duty® "Pro Flo" Valves

- ▶ XH-428 Stainless Exhaust Material
- ▶ NK-844 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ Improved Flow with "Pro Flo" Underhead



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11827-8	Exh.	1.600	.3415	Stock	4.936	.250	Pro Flo: 12° x 3/8"	.085	.080	7° Dish	98
11823-8	Exh.	1.600	.3415	.100 Longer	5.036	.250	Pro Flo: 12° x 3/8"	.085	.080	7° Dish	100
11840-8	Int.	1.937	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	111
11830-8	Int.	2.020	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	114
11882-8	Int.	2.020	.3415	.100 Longer	5.011	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	115
11732-8	Int.	2.055	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	115
11824-8	Int.	2.055	.3415	.100 Longer	5.011	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	116
11734-8	Int.	2.055	.3415	.200 Longer	5.111	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	117
11736-8	Int.	2.080	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	117
11772-8	Int.	2.080	.3415	.100 Longer	5.011	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	118
11738-8	Int.	2.080	.3415	.200 Longer	5.111	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	119
11740-8	Int.	2.080	.3415	.300 Longer	5.211	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	120
11742-8	Int.	2.100	.3415	.100 Longer	5.011	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	119
11744-8	Int.	2.100	.3415	.200 Longer	5.111	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	120
11746-8	Int.	2.100	.3415	.300 Longer	5.211	.250	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	121

Small Block Chevrolet

Extreme Duty Exhaust Valves

- ▶ XH-432 XtremeAlloy Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11599-8	Exh.	1.600	.3415	.050 Longer	5.015	.290	15° x 1/2"	.080	.100	9° Dish	106
11701-8	Exh.	1.600	.3415	.100 Longer	5.065	.290	15° x 1/2"	.080	.100	9° Dish	108
11705-8	Exh.	1.600	.3415	.200 Longer	5.165	.290	15° x 1/2"	.080	.100	9° Dish	110
11709-8	Exh.	1.600	.3415	.300 Longer	5.265	.290	15° x 1/2"	.080	.100	9° Dish	111
11711-8	Exh.	1.600	.3415	.400 Longer	5.365	.290	15° x 1/2"	.080	.100	9° Dish	112
11713-8	Exh.	1.625	.3415	.100 Longer	5.065	.290	15° x 1/2"	.080	.100	9° Dish	110
11715-8	Exh.	1.625	.3415	.200 Longer	5.165	.290	15° x 1/2"	.080	.100	9° Dish	111
11721-8	Exh.	1.625	.3415	.300 Longer	5.265	.290	15° x 1/2"	.080	.100	9° Dish	112
11725-8	Exh.	1.625	.3415	.400 Longer	5.365	.290	15° x 1/2"	.080	.100	9° Dish	113

Small Block Chevrolet

Severe Duty® Valves NHRA Legal Super Stock



- ▶ XH-428 Stainless Exhaust Material
- ▶ NK-844 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11567-8	Exh.	1.500	.3415	Stock	4.911	.250	10° x 3/8"	.060	.100	7° Dish	92
11887-8	Exh.	1.500	.3415	.100 Longer	5.036	.250	15° x 1/2"	.085	.100	10° Dish	94
11747-8	Exh.	1.500	.3415	.200 Longer	5.140	.290	15° x 1/2"	.085	.100	9° Dish	101
11540-8	Int.	1.720	.3415	.100 Longer	5.011	.250	10° x 3/8"	.050	.080	5° Dish	99
11542-8	Int.	1.840	.3415	.100 Longer	5.011	.250	10° x 3/8"	.050	.080	5° Dish	106
11886-8	Int.	1.940	.3415	.100 Longer	5.011	.250	10° x 3/8"	.050	.100	5° Dish	111
11748-8	Int.	1.940	.3415	.200 Longer	5.140	.290	10° x 3/8"	.050	.100	5° Dish	115

409 Chevrolet

Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ Straight Stems



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11311-8	Exh.	1.735	.3715	Stock	5.105	.225	15° x 1/2"	.080	.100	9° Dish	115
11313-8	Exh.	1.750	.3715	Stock	5.105	.225	15° x 1/2"	.080	.100	9° Dish	117
11310-8	Int.	2.200	.3715	Stock	5.105	.225	12° x 3/8"	.065	.080	7° Dish	139
11312-8	Int.	2.250	.3715	Stock	5.105	.225	12° x 3/8"	.065	.080	7° Dish	141

STAINLESS VALVES

VALVES

Big Block Chevrolet

Street Flo Valves

Stock 3/8" Stem Diameters

- ▶ XH-424 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ Improved Flow with "Pro Flo" Underhead
- ▶ NK-841 Stainless Intake Material
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
10717-8	Exh.	1.725	.3715	Stock	5.350	.220	Pro Flo: 10° x 3/8"	.060	.100	5° Dish	120
10727-8	Exh.	1.880	.3715	Stock	5.350	.220	Pro Flo: 10° x 3/8"	.060	.100	5° Dish	131
10714-8	Int.	2.065	.3715	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	130
10728-8	Int.	2.190	.3715	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	135
10726-8	Int.	2.250	.3715	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	138

Big Block Chevrolet

Race Flo Valves

Stock 3/8" Stem Diameters

- ▶ XH-426 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ Improved Flow with "Pro Flo" Underhead
- ▶ NK-842 Stainless Intake Material
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11517-8	Exh.	1.725	.3715	Stock	5.350	.220	Pro Flo: 10° x 3/8"	.060	.100	5° Dish	120
11527-8	Exh.	1.880	.3715	Stock	5.350	.220	Pro Flo: 10° x 3/8"	.060	.100	5° Dish	131
11514-8	Int.	2.065	.3715	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	130
11528-8	Int.	2.190	.3715	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	135
11526-8	Int.	2.250	.3715	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	138

Big Block Chevrolet

Race Master Valves

Stock 3/8" Stem Diameters

- ▶ XH-426 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ Improved Flow with "Pro Flo" Underhead
- ▶ NK-842 Stainless Intake Material
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11509-8	Exh.	1.880	.3715	Stock	5.422	.250	15° x 1/2"	.075	.100	9° Dish	139
11515-8	Exh.	1.880	.3715	.100 Longer	5.522	.250	15° x 1/2"	.075	.100	9° Dish	141
11707-8	Exh.	1.900	.3715	Stock	5.422	.250	15° x 1/2"	.075	.100	9° Dish	141
11723-8	Exh.	1.900	.3715	.100 Longer	5.522	.250	15° x 1/2"	.075	.100	9° Dish	143
11849-8	Exh.	1.940	.3715	Stock	5.422	.250	15° x 1/2"	.075	.100	9° Dish	144
11893-8	Exh.	1.940	.3715	.100 Longer	5.522	.250	15° x 1/2"	.075	.100	9° Dish	146
11718-8	Int.	2.190	.3715	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	150
11720-8	Int.	2.190	.3715	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	152
11722-8	Int.	2.250	.3715	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	153
11724-8	Int.	2.250	.3715	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	155
11726-8	Int.	2.300	.3715	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	156
11728-8	Int.	2.300	.3715	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	158

Big Block Chevrolet

Severe Duty® Valves Stock 3/8" Stem Diameters

- ▶ XH-428 Stainless Exhaust Material
- ▶ NK-844 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined

Want a hollow stem Severe Duty® intake? It's as easy as 1-2-3. Refer to Gen II blank P/N 11252H on page 42 to support your custom requirements.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11553-8	Exh.	1.720	.3715	Stock	5.354	.220	10° x 3/8"	.065	.100	6° Dish	122
11519-8	Exh.	1.725	.3715	.100 Longer	5.464	.220	12° x 3/8"	.075	.100	7° Dish	125
11563-8	Exh.	1.880	.3715	Stock	5.354	.220	10° x 3/8"	.065	.100	6° Dish	134
11525-8	Exh.	1.880	.3715	.100 Longer	5.464	.220	12° x 3/8"	.075	.100	7° Dish	138
11593-8	Exh.	1.900	.3715	Stock	5.364	.220	12° x 3/8"	.075	.100	7° Dish	140
11535-8	Exh.	1.900	.3715	.100 Longer	5.464	.220	12° x 3/8"	.075	.100	7° Dish	142
11561-8	Exh.	1.940	.3715	Stock	5.364	.220	12° x 3/8"	.075	.100	7° Dish	143
11533-8	Exh.	1.940	.3715	.100 Longer	5.464	.220	12° x 3/8"	.075	.100	7° Dish	145
11836-8	Int.	2.065	.3720	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	131
11554-8	Int.	2.065	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	138
11520-8	Int.	2.190	.3720	Stock	5.218	.220	10° x 3/8"	.050	.080	7° Dish	145
11832-8	Int.	2.190	.3720	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	138
11538-8	Int.	2.190	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	146
11562-8	Int.	2.250	.3720	Stock	5.218	.220	10° x 3/8"	.050	.080	7° Dish	149
11524-8	Int.	2.250	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	153
11534-8	Int.	2.250	.3720	.200 Longer	5.433	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	156
11530-8	Int.	2.300	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	160
11536-8	Int.	2.300	.3720	.200 Longer	5.433	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	168
11570-8	Int.	2.300	.3720	.250 Longer	5.513	.250	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	171

Big Block Chevrolet

Severe Duty® "Pro Flo" Valves Stock 3/8" Stem Diameters

- ▶ XH-428 Stainless Exhaust Material
- ▶ NK-844 Stainless Intake Material
- ▶ Improved Flow with "Pro Flo" Underhead
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined

Want a hollow stem Severe Duty® intake? It's as easy as 1-2-3. Refer to Gen II blank P/N 11252H on page 42 to support your custom requirements.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11835-8	Exh.	1.725	.3715	Stock	5.374	.220	Pro Flo: 10° x 3/8"	.085	.100	5° Dish	121
11831-8	Exh.	1.880	.3715	Stock	5.374	.220	Pro Flo: 10° x 3/8"	.085	.100	5° Dish	132
11836-8	Int.	2.065	.3720	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	131
11554-8	Int.	2.065	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	138
11832-8	Int.	2.190	.3720	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	138
11538-8	Int.	2.190	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	146
11524-8	Int.	2.250	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	153
11534-8	Int.	2.250	.3720	.200 Longer	5.433	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	156
11530-8	Int.	2.300	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	160
11536-8	Int.	2.300	.3720	.200 Longer	5.433	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	168
11570-8	Int.	2.300	.3720	.250 Longer	5.513	.250	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	171

STAINLESS VALVES

VALVES

Big Block Chevrolet

Extreme Duty & Marine Valves

Stock 3/8" Stem Diameters

- ▶ XH-432 XtremeAlloy Exhaust Material
- ▶ Swirl Polished and Fully Machined
- ▶ NK-844 Intake Material
- ▶ Chrome Stems and Hard Tips



Want a hollow stem Severe Duty® intake? It's as easy as 1-2-3. Refer to Gen II blank P/N 11252H on page 42 to support your custom requirements.

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11587-8	Exh.	1.880	.3715	Stock	5.354	.220	10° x 3/8"	.065	.100	6° Dish	139
11731-8	Exh.	1.880	.3715	.100 Longer	5.454	.220	10° x 3/8"	.065	.100	6° Dish	142
11507-8	Exh.	1.900	.3715	Stock	5.354	.220	10° x 3/8"	.065	.100	6° Dish	140
11733-8	Exh.	1.900	.3715	.100 Longer	5.454	.220	10° x 3/8"	.075	.100	6° Dish	143
11735-8	Exh.	1.940	.3715	.100 Longer	5.454	.220	10° x 3/8"	.065	.100	6° Dish	144
11836-8	Int.	2.065	.3720	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	131
11554-8	Int.	2.065	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	138
11520-8	Int.	2.190	.3720	Stock	5.218	.220	10° x 3/8"	.050	.080	7° Dish	145
11832-8	Int.	2.190	.3720	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	138
11538-8	Int.	2.190	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	146
11562-8	Int.	2.250	.3720	Stock	5.218	.220	10° x 3/8"	.050	.080	7° Dish	149
11524-8	Int.	2.250	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	153
11534-8	Int.	2.250	.3720	.200 Longer	5.433	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	156
11530-8	Int.	2.300	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	160
11536-8	Int.	2.300	.3720	.200 Longer	5.433	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	168
11570-8	Int.	2.300	.3720	.250 Longer	5.513	.250	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	171

Big Block Chevrolet

Street Master Valves

1 1/32" Stem Diameters

- ▶ XH-424 Stainless Exhaust Material
- ▶ Swirl Polished and Fully Machined
- ▶ 1 1/32" Stems for Improved Flow, Lighter Weight
- ▶ NK-841 Intake Material
- ▶ Chrome Stems and Hard Tips



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
10881-8	Exh.	1.880	.3415	Stock	5.422	.250	10° x 3/8"	.075	.100	6° Dish	122
10761-8	Exh.	1.880	.3415	.100 Longer	5.522	.250	10° x 3/8"	.075	.100	6° Dish	124
10883-8	Exh.	1.900	.3415	Stock	5.422	.250	10° x 3/8"	.075	.100	5° Dish	124
10769-8	Exh.	1.900	.3415	.100 Longer	5.522	.250	10° x 3/8"	.075	.100	5° Dish	125
10872-8	Int.	2.190	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	129
10894-8	Int.	2.190	.3415	.100 Longer	5.344	.250	10° x 3/8"	.050	.080	5° Dish	130
10874-8	Int.	2.250	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	130
10814-8	Int.	2.250	.3415	.100 Longer	5.344	.250	10° x 3/8"	.050	.080	5° Dish	132
10868-8	Int.	2.250	.3415	.250 Longer	5.494	.250	10° x 3/8"	.050	.080	5° Dish	135

Big Block Chevrolet

Race Master Valves 11/32" Stem Diameters

- ▶ XH-426 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ 11/32" Stems for Improved Flow, Lighter Weight
- ▶ NK-842 Stainless Intake Material
- ▶ Swirl Polished and Fully Machined

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11881-8	Exh.	1.880	.3415	Stock	5.422	.250	10° x 3/8"	.075	.100	6° Dish	122
11717-8	Exh.	1.880	.3415	Stock	5.422	.250	25° x 3/8"	.075	.100	20° Dish	127
11761-8	Exh.	1.880	.3415	.100 Longer	5.522	.250	10° x 3/8"	.075	.100	6° Dish	124
11719-8	Exh.	1.880	.3415	.100 Longer	5.522	.250	25° x 3/8"	.075	.100	20° Dish	129
11883-8	Exh.	1.900	.3415	Stock	5.422	.250	10° x 3/8"	.075	.100	5° Dish	124
11765-8	Exh.	1.900	.3415	Stock	5.422	.250	25° x 3/8"	.075	.100	20° Dish	128
11769-8	Exh.	1.900	.3415	.100 Longer	5.522	.250	10° x 3/8"	.075	.100	5° Dish	125
11775-8	Exh.	1.900	.3415	.100 Longer	5.522	.250	25° x 3/8"	.075	.100	20° Dish	130
11885-8	Exh.	1.940	.3415	Stock	5.422	.250	10° x 3/8"	.075	.100	5° Dish	124
11777-8	Exh.	1.940	.3415	.100 Longer	5.522	.250	10° x 3/8"	.075	.100	5° Dish	126
11872-8	Int.	2.190	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	129
11894-8	Int.	2.190	.3415	.100 Longer	5.344	.250	10° x 3/8"	.050	.080	5° Dish	130
11874-8	Int.	2.250	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	130
11814-8	Int.	2.250	.3415	.100 Longer	5.344	.250	10° x 3/8"	.050	.080	5° Dish	132
11868-8	Int.	2.250	.3415	.250 Longer	5.494	.250	10° x 3/8"	.050	.080	5° Dish	135
11730-8	Int.	2.300	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	133
11816-8	Int.	2.300	.3415	.100 Longer	5.344	.250	10° x 3/8"	.050	.080	5° Dish	136
11870-8	Int.	2.300	.3415	.250 Longer	5.494	.250	10° x 3/8"	.050	.080	5° Dish	137

Big Block Chevrolet

Severe Duty® Valves 11/32" Stem Diameters

- ▶ XH-428 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ NK-844 Stainless Intake Material
- ▶ Swirl Polished and Fully Machined

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11843-8	Exh.	1.880	.3415	Stock	5.422	.250	10° x 3/8"	.075	.085	6° Dish	122
11815-8	Exh.	1.880	.3415	.100 Longer	5.522	.250	10° x 3/8"	.075	.085	6° Dish	125
11845-8	Exh.	1.880	.3415	.100 Longer	5.522	.250	25° x 3/8"	.075	.100	20° Dish	130
11817-8	Exh.	1.900	.3415	Stock	5.422	.250	12° x 3/8"	.075	.085	7° Dish	122
11811-8*	Exh.	1.900	.3415	.100 Longer	5.522	.250	12° x 3/8"	.075	.085	7° Dish	126
11847-8	Exh.	1.900	.3415	.100 Longer	5.522	.250	25° x 3/8"	.075	.100	20° Dish	132
11803-8	Exh.	1.940	.3415	Stock	5.422	.250	12° x 3/8"	.075	.085	7° Dish	123
11809-8	Exh.	1.940	.3415	.100 Longer	5.522	.250	12° x 3/8"	.075	.085	7° Dish	127
11800-8	Int.	2.190	.3415	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	139
11822-8	Int.	2.190	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	140
11896-8	Int.	2.190	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100	7° Dish	146
11802-8	Int.	2.250	.3415	Stock	5.244	.250	12° x 3/8"	.050	.100	7° Dish	139
11850-8	Int.	2.250	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.100	7° Dish	142
11856-8	Int.	2.250	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.100	7° Dish	145
11898-8	Int.	2.250	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100	7° Dish	150
11780-8	Int.	2.300	.3415	Stock	5.244	.250	12° x 3/8"	.050	.100	7° Dish	143
11842-8	Int.	2.300	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.100	7° Dish	146
11784-8	Int.	2.300	.3415	.200 Longer	5.444	.250	12° x 3/8"	.050	.100	7° Dish	147
11854-8	Int.	2.300	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.100	7° Dish	148
11878-8	Int.	2.300	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100	7° Dish	149
11838-8	Int.	2.325	.3415	.250 Longer	5.509	.250	12° x 3/8"	.065	.100	7° Dish	150
11880-8	Int.	2.350	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100	7° Dish	152

* Also available with Bead Loc® keeper grooves. Please order P/N 11811B-8

STAINLESS VALVES

VALVES

Big Block Chevrolet

Extreme Duty & Marine Valves 11/32" Stem Diameters

- ▶ XH-432 XtremeAlloy Exhaust Material
- ▶ NK-844 Stainless Intake Material
- ▶ Greater Flow and Less Weight
- ▶ Reduced Stem Diameter
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
EXTREME DUTY VALVES											
11743-8	Exh.	1.880	.3415	Stock	5.422	.250	15° x 1/2"	.075	.085	9° Dish	133
12743-8	Exh.	1.880	.3415	Stock	5.422	.250	18° x 1/2"	.075	.085	12° Dish	133
11737-8	Exh.	1.880	.3415	.100 Longer	5.522	.250	15° x 1/2"	.075	.085	9° Dish	133
12737-8	Exh.	1.880	.3415	.100 Longer	5.522	.250	18° x 1/2"	.075	.085	12° Dish	133
11745-8	Exh.	1.900	.3415	Stock	5.422	.250	15° x 1/2"	.075	.085	9° Dish	136
12745-8	Exh.	1.900	.3415	Stock	5.422	.250	18° x 1/2"	.075	.085	12° Dish	136
11739-8	Exh.	1.900	.3415	.100 Longer	5.522	.250	15° x 1/2"	.075	.085	9° Dish	136
12739-8	Exh.	1.900	.3415	.100 Longer	5.522	.250	18° x 1/2"	.075	.085	12° Dish	136
11773-8	Exh.	1.940	.3415	Stock	5.422	.250	15° x 1/2"	.075	.085	9° Dish	140
12773-8	Exh.	1.940	.3415	Stock	5.422	.250	18° x 1/2"	.075	.085	12° Dish	140
11741-8	Exh.	1.940	.3415	.100 Longer	5.522	.250	15° x 1/2"	.075	.085	9° Dish	140
12741-8	Exh.	1.940	.3415	.100 Longer	5.522	.250	18° x 1/2"	.075	.085	12° Dish	140

Gen II blank P/N 11277 is also available with an 18° back angle, flat face (no dish). Refer to page 42.

SEVERE DUTY VALVES											
11800-8	Int.	2.190	.3415	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	139
11822-8	Int.	2.190	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	140
11896-8	Int.	2.190	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100	7° Dish	146
11802-8	Int.	2.250	.3415	Stock	5.244	.250	12° x 3/8"	.050	.100	7° Dish	139
11850-8	Int.	2.250	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.100	7° Dish	142
11856-8	Int.	2.250	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.100	7° Dish	145
11898-8	Int.	2.250	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100	7° Dish	150
11780-8	Int.	2.300	.3415	Stock	5.244	.250	12° x 3/8"	.050	.100	7° Dish	143
11842-8	Int.	2.300	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.100	7° Dish	146
11784-8	Int.	2.300	.3415	.200 Longer	5.444	.250	12° x 3/8"	.050	.100	7° Dish	147
11854-8	Int.	2.300	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.100	7° Dish	148
11878-8	Int.	2.300	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100	7° Dish	149
11838-8	Int.	2.325	.3415	.250 Longer	5.509	.250	12° x 3/8"	.065	.100	7° Dish	150
11880-8	Int.	2.350	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100	7° Dish	152

Brodix 383 Head Hunter™, BB-4/SAR, SR20, Edelbrock Victor #12363425 Heads 11/32" Stem Diameters

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width/Angle	Top of Head	Wgt/ Grams
RACE MASTER VALVES											
12341-8**	Exh.	1.800	.3415	.500 Longer	5.930	.250	25° x 3/8"	.080	.060/55°	20° Dish	135
SEVERE DUTY VALVES											
12343-8**	Exh.	1.800	.3415	.500 Longer	5.930	.250	25° x 3/8"	.080	.060/55°	20° Dish	135
12339-8*	Exh.	1.850	.3415	.100 Longer	5.500	.250	12° x 3/8"	.075	.075/55°	7° Dish	125
11845-8	Exh.	1.880	.3415	.100 Longer	5.522	.250	25° x 3/8"	.075	.100/45°	20° Dish	130
11847-8	Exh.	1.900	.3415	.100 Longer	5.522	.250	25° x 3/8"	.075	.100/45°	20° Dish	132
11896-8	Int.	2.190	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100/45°	7° Dish	146
11898-8	Int.	2.250	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100/45°	7° Dish	148
11878-8	Int.	2.300	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100/45°	7° Dish	148
11880-8	Int.	2.350	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100/45°	7° Dish	150
12340-8*	Int.	2.375	.3415	.350 Longer	5.600	.250	12° x 3/8"	.060	.080/52°	7° Dish	152
12344-8**	Int.	2.400	.3415	.780 Longer	6.030	.250	10° x 3/8"	.055	.060/50°	5° Dish	164
EXTREME DUTY VALVES											
12351-8**	Exh.	1.800	.3415	.500 Longer	5.930	.250	15° x 1/2"	.080	.060/55°	9° Dish	142

* These valves are specifically produced for the Brodix 383 Head Hunter™ cylinder heads. Brodix equivalents: Manley P/N 12339 = BR81185, Manley P/N 12340 = BR81375

** These valves are specifically produced for the Brodix SR20 cylinder heads. The exhaust valves include a .050" x .45° back cut and the intake includes a .035" x 33° back cut. Brodix equivalents: Manley P/N's 12341 and 12343 = BR81080, Manley P/N 12344 = BR81403

Dart Big Block Pro 1® & 320 / 360 Heads Severe Duty® Valves 11/32" Stem Diameters

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11843-8	Exh.	1.880	.3415	Stock	5.422	.250	10° x 3/8"	.075	.085	6° Dish	122
11817-8	Exh.	1.900	.3415	Stock	5.422	.250	12° x 3/8"	.075	.085	7° Dish	122
11856-8	Int.	2.250	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.100	7° Dish	145
11854-8	Int.	2.300	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.100	7° Dish	147

Big Block Chevrolet

Pontiac "Pro Stock" & Dart "Big Chief" Extreme Duty & Severe Duty® Valves 11/32" Stems

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11597-8	Exh.	1.900	.3415	Stock	6.450	.290	15° x 1/2"	.085	.080	9° Dish	143
EXTREME DUTY VALVES											
11581-8	Exh.	1.900	.3415	Stock	6.380	.250	25° x 3/8"	.085	.100	20° Dish	144
11583-8	Exh.	1.940	.3415	Stock	6.400	.250	25° x 3/8"	.085	.100	20° Dish	150
SEVERE DUTY® VALVES											
11580-8	Int.	2.325	.3415	Stock	6.590	.250	10° x 3/8"	.050	.075	5° Dish	165
11582-8	Int.	2.400	.3415	Stock	6.600	.250	10° x 3/8"	.050	.075	5° Dish	168

Big Block Chevrolet

Severe Duty® Valves 5/16" (.311") Stem Diameters

These .311" stem valves are ONLY available with Bead Loc® keeper grooves. Bead Loc® valve locks are REQUIRED.

Want a hollow stem Severe Duty® intake? It's as easy as 1-2-3. Refer to Gen II blank P/N 11264H on page 42 to support your custom requirements.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams	
12843-8	Exh.	1.880	.3110	Stock	5.422	.250	12° x 3/8"	.075	.100	7° Dish	107	
12815-8	Exh.	1.880	.3110	.100 Longer	5.522	.250	12° x 3/8"	.075	.100	7° Dish	110	
12817-8	Exh.	1.900	.3110	Stock	5.422	.250	12° x 3/8"	.075	.100	7° Dish	108	
12811-8	Exh.	1.900	.3110	.100 Longer	5.522	.250	12° x 3/8"	.075	.100	7° Dish	111	
12803-8	Exh.	1.940	.3110	Stock	5.422	.250	12° x 3/8"	.075	.100	7° Dish	109	
12809-8	Exh.	1.940	.3110	.100 Longer	5.522	.250	12° x 3/8"	.075	.100	7° Dish	112	
12802-8	Int.	2.250	.3110	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	122	
12850-8	Int.	2.250	.3110	.100 Longer	5.344	.250	10° x 3/8"	.050	.080	5° Dish	125	
12850H-8	Int.	2.250	.3110	.100 Longer	5.344	.250	10° x 3/8"	.050	.080	5° Dish	113	
			Hollow Stem									
12856-8	Int.	2.250	.3110	.250 Longer	5.494	.250	10° x 3/8"	.050	.080	5° Dish	128	
12856H-8	Int.	2.250	.3110	.250 Longer	5.494	.250	10° x 3/8"	.050	.080	5° Dish	116	
			Hollow Stem									
12898-8	Int.	2.250	.3110	.350 Longer	5.594	.250	10° x 3/8"	.050	.080	5° Dish	132	
12780-8	Int.	2.300	.3110	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	126	
12842-8	Int.	2.300	.3110	.100 Longer	5.344	.250	10° x 3/8"	.050	.080	5° Dish	128	
12784-8	Int.	2.300	.3110	.200 Longer	5.444	.250	10° x 3/8"	.050	.080	5° Dish	129	
12854-8	Int.	2.300	.3110	.250 Longer	5.494	.250	10° x 3/8"	.050	.080	5° Dish	130	
12878-8	Int.	2.300	.3110	.350 Longer	5.594	.250	10° x 3/8"	.050	.080	5° Dish	133	
12838-8	Int.	2.325	.3110	.250 Longer	5.494	.250	10° x 3/8"	.050	.080	5° Dish	134	
12880-8	Int.	2.350	.3110	.350 Longer	5.594	.250	10° x 3/8"	.050	.080	5° Dish	135	

Need a different length? Head diameter not listed? Prefer a BeadLoc® groove?
See pages 42 & 43 for Gen II blanks to construct a valve to your exact specifications.

STAINLESS VALVES

VALVES

GM Duramax 6.6L Diesel 4 Valve

Extreme Duty & Race Flo Valves

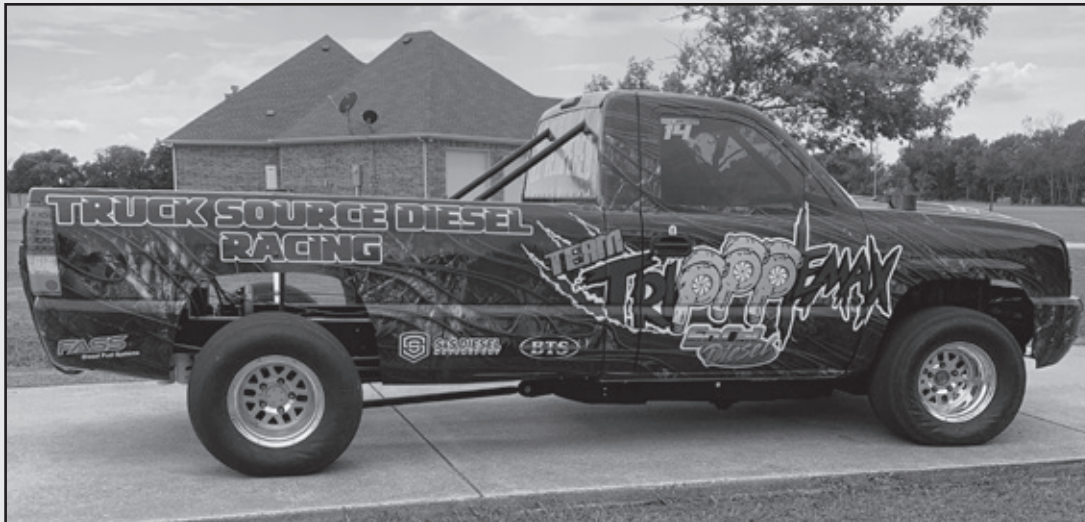
- ▶ XH-432 XtremeAlloy Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ Single Radius Groove for Factory Locks



These Manley valves are boxed in sets of 8 pieces. Please order two boxes of both intakes and exhausts to fit your engine.

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
EXTREME DUTY VALVES											
11609-8	Exh.	1.300	.2735	Stock	4.985	.480	30° x 13/32"	.060	.110	Flat Face	74
RACE FLO VALVES											
11608-8 *	Int.	1.338	.2740	Stock	4.985	.480	25° x 9/32"	.050	.085	Flat Face	67

* Intakes have backcut - .090" x 30°



SoCal Diesel customer Wade Minter and Trippplemax

Buick V-6

Stage 1 and Production Cast Iron Heads Severe Duty® Valves

- ▶ XH-428 Exhaust Material
- ▶ NK-844 Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Machined
- ▶ Intakes are "Pro Flo" for Improved Flow



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11503-6	Exh.	1.500	.3415	Stock	4.725	.270	30° x 7/16"	.075	.090	20° Dish	98
11502-6	Int.	1.710	.3415	Stock	4.730	.270	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	95
11504-6	Int.	1.775	.3415	Stock	4.730	.270	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	97

Oldsmobile 330 - 455

Severe Duty® Valves

- ▶ XH-428 Stainless Exhaust Material
- ▶ NK-844 Stainless Intake Material
- ▶ Hard Tips
- ▶ Swirl Polished
- ▶ Chrome Stems
- ▶ Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11547-8	Exh.	1.710	.3415	Stock	4.668	.260	10° x 3/8"	.060	.100	5° Dish	101
11548-8	Int.	2.072	.3415	Stock	4.713	.260	10° x 3/8"	.050	.080	5° Dish	117

Valve P/N's 11547 and 11548 are manufactured with .3415" stem diameters. We recommend that customers check their valve guide size in order to achieve the proper valve stem to guide clearance. Factory sizes may vary depending on the specific motor.

Pontiac 400 - 428 - 455

Race Master & Race Flo Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11353-8	Exh.	1.660	.3415	Stock	5.230	.250	25° x 3/8"	.080	.100	20° Dish	115
11355-8	Exh.	1.770	.3415	Stock	5.100	.250	25° x 3/8"	.080	.100	20° Dish	117
11337-8	Exh.	1.770	.3415	Stock	5.230	.250	25° x 3/8"	.080	.100	20° Dish	123
11364-8	Int.	2.110	.3415	Stock	5.100	.250	Pro Flo 12° x 3/8"	.050	.100	7° Dish	114
11352-8	Int.	2.110	.3415	Stock	5.215	.250	Pro Flo 12° x 3/8"	.050	.100	7° Dish	118

Valve P/N's 11352 and 11353 fit Edelbrock 72cc cylinder heads. Both intakes have 30° seats.

Need a different length? Head diameter not listed? Prefer a BeadLoc® groove?
See pages 42 & 43 for Gen II blanks to construct a valve to your exact specifications.

STAINLESS VALVES

VALVES

Chrysler / Dodge 5.7L & 6.1L Hemi Race Flo & Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Swirl Polished & Fully Machined
- ▶ Improved Flow with "Pro Flo" Underhead

Must use factory locks with triple grooves and use Manley's Bead Loc® P/N 13093-16 with the Bead Loc® single radius groove.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
Chrysler HEMI 5.7L (Thru 2008) w/ TRIPLE GROOVE											
11665-8	Exh.	1.555"	.3125"	Stock	4.845"	.120	25° x 1/2"	.065	.100	20° Dish	88
11667-8	Exh.	1.575"	.3125"	Stock	4.845"	.120	25° x 1/2"	.065	.100	20° Dish	90
11664-8	Int.	2.000"	.3125"	Stock	4.955"	.120	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	103
11666-8	Int.	2.020"	.3125"	Stock	4.955"	.120	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	104
11666H-8	Int.	2.020"	.3125"	Stock	4.955"	.120	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	92
Hollow Stem											
Chrysler HEMI 5.7L (Thru 2008) w/ BEAD LOC® GROOVE											
11665B-8	Exh.	1.555"	.3125"	Stock	4.845"	.135	25° x 1/2"	.065	.100	20° Dish	88
11667B-8	Exh.	1.575"	.3125"	Stock	4.845"	.135	25° x 1/2"	.065	.100	20° Dish	90
11664B-8	Int.	2.000"	.3125"	Stock	4.955"	.135	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	103
11666B-8	Int.	2.020"	.3125"	Stock	4.955"	.135	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	104
11666HB-8	Int.	2.020"	.3125"	Stock	4.955"	.135	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	92
Hollow Stem											
Chrysler HEMI 5.7L (2009 - Up) w/ TRIPLE GROOVE											
11695-8	Exh.	1.555"	.3125"	Stock	5.125"	.120	25° x 1/2"	.065	.100	20° Dish	95
11697-8	Exh.	1.575"	.3125"	Stock	5.125"	.120	25° x 1/2"	.065	.100	20° Dish	97
11694-8	Int.	2.050"	.3125"	Stock	5.176"	.120	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	111
11696-8	Int.	2.080"	.3125"	Stock	5.176"	.120	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	113
11696H-8	Int.	2.080"	.3125"	Stock	5.176"	.120	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	101
Hollow Stem											
Chrysler HEMI 5.7L (2009 - Up) w/ BEAD LOC® GROOVE											
11695B-8	Exh.	1.555"	.3125"	Stock	5.125"	.135	25° x 1/2"	.065	.100	20° Dish	95
11697B-8	Exh.	1.575"	.3125"	Stock	5.125"	.135	25° x 1/2"	.065	.100	20° Dish	97
11694B-8	Int.	2.050"	.3125"	Stock	5.176"	.135	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	111
11696B-8	Int.	2.080"	.3125"	Stock	5.176"	.135	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	113
11696HB-8	Int.	2.080"	.3125"	Stock	5.176"	.135	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	101
Hollow Stem											
Chrysler HEMI 6.1L w/ TRIPLE GROOVE											
11669-8	Exh.	1.595"	.3125"	Stock	4.925"	.120	25° x 1/2"	.065	.100	20° Dish	91
11671-8	Exh.	1.625"	.3125"	Stock	4.925"	.120	25° x 1/2"	.065	.100	20° Dish	93
11668-8	Int.	2.080"	.3125"	Stock	4.990"	.120	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	108
11670-8	Int.	2.100"	.3125"	Stock	4.990"	.120	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	111
11670H-8	Int.	2.100"	.3125"	Stock	4.990"	.120	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	99
Hollow Stem											
Chrysler HEMI 6.1L w/ BEAD LOC® GROOVE											
11669B-8	Exh.	1.595"	.3125"	Stock	4.925"	.135	25° x 1/2"	.065	.100	20° Dish	91
11671B-8	Exh.	1.625"	.3125"	Stock	4.925"	.135	25° x 1/2"	.065	.100	20° Dish	93
11668B-8	Int.	2.080"	.3125"	Stock	4.990"	.135	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	108
11670B-8	Int.	2.100"	.3125"	Stock	4.990"	.135	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	111
11670HB-8	Int.	2.100"	.3125"	Stock	4.990"	.135	Pro Flo: 10° x 5/16"	.050	.085	5° Dish	99
Hollow Stem											

For the 5.7L exhaust valves, Manley Performance recommends that customers check their valve guide size in order to achieve the proper valve stem to guide clearance. Guides may need to be honed when replacing valves.

Chrysler / Dodge 6.4L Hemi

Race Flo & Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Swirl Polished & Fully Machined
- ▶ Improved Flow with "Pro Flo" Underhead



Must use factory locks with triple grooves and use Manley's Bead Loc® P/N 13093-16 with the Bead Loc® single radius groove.

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
CHRYSLER HEMI 6.4L (2011 - Up) w/ TRIPLE GROOVE											
12331-8	Exh.	1.654"	.3125"	Stock	5.100"	.120	25° x 1/2"	.080	.100	20° Dish	103
12333-8	Exh.	1.675"	.3125"	Stock	5.100"	.120	25° x 1/2"	.080	.100	20° Dish	104
12330-8*	Int.	2.140"	.3125"	Stock	5.135"	.120	Pro Flo: 10° x 5/16"	.050	.080	5° Dish	127
12332-8*	Int.	2.180"	.3125"	Stock	5.135"	.120	Pro Flo: 10° x 5/16"	.050	.080	5° Dish	129
12332H-8*	Int.	2.180"	.3125"	Stock	5.135"	.120	Pro Flo: 10° x 5/16" Hollow Stem	.050	.080	5° Dish	116

CHRYSLER HEMI 6.4L (2011 - Up) w/ BEAD LOC® GROOVE

12331B-8	Exh.	1.654"	.3125"	Stock	5.100"	.135	25° x 1/2"	.080	.100	20° Dish	103
12333B-8	Exh.	1.675"	.3125"	Stock	5.100"	.135	25° x 1/2"	.080	.100	20° Dish	104
12330B-8*	Int.	2.140"	.3125"	Stock	5.135"	.135	Pro Flo: 10° x 5/16"	.050	.080	5° Dish	127
12332B-8*	Int.	2.180"	.3125"	Stock	5.135"	.135	Pro Flo: 10° x 5/16"	.050	.080	5° Dish	129
12332HB-8*	Int.	2.180"	.3125"	Stock	5.135"	.135	Pro Flo: 10° x 5/16" Hollow Stem	.050	.080	5° Dish	116

* Intakes have backcut - .055" x 30°

Dodge Viper V-10 Up To 2010

Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ Swirl Polished
- ▶ Chrome Stems
- ▶ Bead Loc® keeper grooves for use with the factory valve locks up to 2006 or Manley .3110" stem Bead Loc® valve locks.
- ▶ NK-842 Stainless Intake Material
- ▶ Fully Machined
- ▶ Hard Tips



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11641-10	Exh.	1.580	.3110	Stock	5.770	.110	18° x 1/2"	.075	.100	12° Dish	101
11643-10	Exh.	1.600	.3110	Stock	5.770	.110	18° x 1/2"	.075	.100	12° Dish	102
11645-10	Exh.	1.600	.3110	.100 Longer	5.870	.110	18° x 1/2"	.075	.100	12° Dish	103
11647-10	Exh.	1.600	.3110	.200 Longer	5.970	.110	18° x 1/2"	.075	.100	12° Dish	104
11642-10	Int.	1.920	.3110	Stock	5.728	.110	12° x 3/8"	.050	.080	7° Dish	105
11644-10	Int.	2.020	.3110	Stock	5.728	.110	12° x 3/8"	.050	.080	7° Dish	112
11646-10	Int.	2.020	.3110	.100 Longer	5.828	.110	12° x 3/8"	.050	.080	7° Dish	113
11648-10	Int.	2.020	.3110	.200 Longer	5.928	.110	12° x 3/8"	.050	.080	7° Dish	114
11660-10	Int.	2.055	.3110	.100 Longer	5.828	.110	12° x 3/8"	.050	.080	7° Dish	114

Need a different length? Head diameter not listed? Prefer a BeadLoc® groove?
See pages 42 & 43 for Gen II blanks to construct a valve to your exact specifications.

Chrysler 340 - 360

Race Series Valves & Severe Duty® "Pro Flo" Valves

- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ W-2 Valves are "Pro Flo" Underhead



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
W-2 LATE MODEL STOCK P/N P5249769 CYLINDER HEAD											
11703-8	Exh.	1.600	.3415	Stock	5.255	.290	Pro Flo: 15° x 1/2"	.095	.080	17° Dish	111
11702-8	Int.	2.020	.3415	Stock	5.240	.290	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	125
P/N 11703-8 exhaust is a Race-Flo. P/N 11702-8 intake is a Severe Duty Pro-Flo.											
W-2 CYLINDER HEAD SEVERE DUTY® AND "PRO FLO" VALVES											
11549-8	Exh.	1.600	.3715	.150 Longer	5.075	.220	12° x 3/8"	.085	.100	7° Dish	107
11550-8	Int.	2.020	.3720	.150 Longer	5.050	.220	Pro Flo: 12° x 7/16"	.050	.080	7° Dish	123
STOCK CYLINDER HEAD RACE MASTER VALVES											
11781-8	Exh.	1.600	.3715	Stock	4.970	.225	15° x 1/2"	.080	.100	9° Dish	104
11783-8	Exh.	1.625	.3715	Stock	4.970	.225	15° x 1/2"	.080	.100	9° Dish	105
11782-8	Int.	2.020	.3715	Stock	4.980	.225	12° x 3/8"	.050	.080	7° Dish	118

Chrysler 361 - 383 - 426 Wedge - 440

Race Flo & Race Master Valves



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11859-8	Exh.	1.740	.3720	Stock	4.908	.275	Pro Flo: 10° x 3/8"	.085	.100	5° Dish	116
11307-8	Exh.	1.740	.3715	.100 Longer	5.010	.275	15° x 1/2"	.080	.100	9° Dish	121
11891-8	Exh.	1.810	.3720	Stock	4.908	.275	Pro Flo: 10° x 3/8"	.085	.100	5° Dish	121
11309-8	Exh.	1.810	.3715	.100 Longer	5.010	.275	15° x 1/2"	.080	.100	9° Dish	126
11892-8	Int.	2.080	.3720	Stock	4.873	.275	Pro Flo: 10° x 3/8"	.050	.085	5° Dish	122
11308-8	Int.	2.080	.3715	.100 Longer	5.000	.275	12° x 3/8"	.060	.080	7° Dish	125
11890-8	Int.	2.140	.3720	Stock	4.873	.275	Pro Flo: 10° x 3/8"	.050	.085	5° Dish	126
11314-8	Int.	2.140	.3715	.100 Longer	5.000	.275	12° x 3/8"	.060	.080	7° Dish	131
11388-8	Int.	2.180	.3715	.100 Longer	5.000	.275	12° x 3/8"	.060	.080	7° Dish	134

Severe Duty® "Pro Flo" Valves

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11841-8	Exh.	1.740	.3720	Stock	4.908	.275	Pro Flo: 10° x 3/8"	.085	.100	5° Dish	116
11839-8	Exh.	1.810	.3720	Stock	4.908	.275	Pro Flo: 10° x 3/8"	.085	.100	5° Dish	121
11833-8	Exh.	1.880	.3720	Stock	4.908	.275	Pro Flo: 10° x 3/8"	.085	.100	5° Dish	126
11876-8	Int.	2.080	.3720	Stock	4.873	.275	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	122
11834-8	Int.	2.140	.3720	Stock	4.873	.275	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	126

Chrysler 440-1

"Indy Cylinder Heads"

Race Master Valves & Severe Duty® Valves

- ▶ Swirl Polished
- ▶ Fully Machined
- ▶ Chrome Stems
- ▶ Hard Tips

Manufactured specifically for Indy Cylinder Head's own 440-1 aluminum or cast iron head.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
RACE MASTER VALVES											
11381-8	Exh.	1.810	.3415	Stock	5.400	.250	10° x 3/8"	.075	.100	6° Dish	118
11380-8	Int.	2.190	.3415	Stock	5.344	.250	10° x 3/8"	.050	.080	5° Dish	134
11382-8	Int.	2.250	.3415	Stock	5.344	.250	10° x 3/8"	.050	.080	5° Dish	136
SEVERE DUTY VALVES											
11813-8	Exh.	1.810	.3415	Stock	5.369	.250	12° x 3/8"	.075	.085	7° Dish	115
11822-8	Int.	2.190	.3415	Stock	5.344	.250	12° x 3/8"	.050	.080	7° Dish	140
11850-8	Int.	2.250	.3415	Stock	5.344	.250	12° x 3/8"	.050	.100	7° Dish	142

Chrysler 426 Hemi

Race Master & Severe Duty® Valves

- ▶ XH-426 Race Master Stainless Exhaust Material
- ▶ NK-842 Race Master Stainless Intake Material
- ▶ Swirl Polished and Fully Machined
- ▶ NK-844 Severe Duty® Stainless Intake Material
- ▶ Chrome Stems and Hard Tips

"B" suffix indicates a Bead Loc® keeper groove. Bead Loc® valve locks are required.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
RACE MASTER VALVES											
11315-8	Exh.	1.900	.3075	Stock	4.855	.200	22° x 3/8"	.070	.100	18° Dish	104
11315B-8	Exh.	1.900	.3075	Stock	4.855	.200	22° x 3/8"	.070	.100	18° Dish	104
11317-8	Exh.	1.940	.3075	Stock	4.865	.200	22° x 3/8"	.070	.100	18° Dish	107
11317B-8	Exh.	1.940	.3075	Stock	4.865	.200	22° x 3/8"	.070	.100	18° Dish	107
11901-8	Exh.	1.900	.3100	Stock	4.915	.250	22° x 1/4"	.075	.100	17° Dish	132
11905-8	Exh.	1.940	.3100	Stock	4.915	.250	22° x 1/4"	.075	.100	17° Dish	133
11516-8	Int.	2.200	.3100	Stock	5.490	.250	24° x 3/4"	.060	.080	19° Dish	128
11518-8	Int.	2.250	.3100	Stock	5.490	.250	24° x 3/4"	.060	.080	19° Dish	131
SEVERE DUTY VALVES											
11902-8	Int.	2.200	.3085	Stock	5.405	.200	24° x 3/4"	.060	.095	20° Dish	133
11902B-8	Int.	2.200	.3085	Stock	5.405	.200	24° x 3/4"	.060	.095	20° Dish	133
11904-8	Int.	2.250	.3085	Stock	5.424	.200	24° x 3/4"	.060	.095	20° Dish	136
11904B-8	Int.	2.250	.3085	Stock	5.424	.200	24° x 3/4"	.060	.095	20° Dish	136
11906-8	Int.	2.250	.3085	.050 Longer	5.474	.200	24° x 3/4"	.060	.095	20° Dish	137
11906B-8	Int.	2.250	.3085	.050 Longer	5.474	.200	24° x 3/4"	.060	.095	20° Dish	137
11908-8	Int.	2.250	.3085	.100 Longer	5.524	.200	24° x 3/4"	.060	.095	20° Dish	138
11908B-8	Int.	2.250	.3085	.100 Longer	5.524	.200	24° x 3/4"	.060	.095	20° Dish	138

Top Fuel & Funny Car

Extreme Duty Exhaust Valves

- ▶ XH-432 XtremeAlloy Material
- ▶ Chrome Stems and Swirl Polished
- ▶ Hard Tips

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
11837-8	Exh.	1.950	.3715	.100 Longer	5.020	.250	22° x 1/2"	.100	.100	15° Dish	166
11729B-8**	Exh.	1.950	.3715	.200 Longer	5.120	.250	22° x 1/2"	.100	.100	15° Dish	169
11855-8	Exh.	2.000	.3715	.100 Longer	5.020	.250	22° x 1/2"	.080	.125	15° Dish	165
11895-8*	Exh.	2.000	.3715	*	5.315	*	22° x 1/2"	.118	.110	13° Dish	169

* Valve 11895 is stocked at the O/A length listed above with no keeper grooves.

All valves above except 11855 have a 55° seat angle.

Please specify the overall length and groove location you require. There is no charge for these machining operations.

** Valve 11729B has a Bead Loc® keeper groove. Bead Loc® valve locks are required.

Ford 2.3L EcoBoost Race Flo Valves & Extreme Duty Valves

- ▶ XH-432 XtremeAlloy Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined
- ▶ Improved Flow with "Pro Flo" Underhead
- ▶ Factory single radius keeper grooves



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
EXTREME DUTY VALVES											
11197-8	Exh.	30.0mm	5.46mm / .2150"	Stock	104.75mm	3.75mm	25° x 11/32"	.050"	.100"	Flat Face	45
11199-8	Exh.	30.5mm	5.46mm / .2150"	Stock	104.75mm	3.75mm	25° x 11/32"	.050"	.100"	Flat Face	46
RACE MASTER VALVES											
11196-8	Int.	32.5mm	5.48mm / .2157"	Stock	103.55mm	4.00mm	Pro Flo: 22° x 5/16"	.050"	.100"	17° Dish	43
11198-8	Int.	33.0mm	5.48mm / .2157"	Stock	103.55mm	4.00mm	Pro Flo: 22° x 5/16"	.050"	.100"	17° Dish	44

Ford 4.6L & 5.4L SOHC 2 Valve Race Master Valves

Must use factory locks for triple grooves and use Manley's Bead Loc® P/N 13089-16 with the Bead Loc® single radius groove. We can also custom build Extreme Duty exhaust valves from our P/N 11281 GEN II blank stainless valve on page 42.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
1999 AND LATER w/ TRIPLE GROOVE											
11637-8	Exh.	36.0mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	66
11639-8	Exh.	37.0mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	68
11636-8	Int.	44.5mm	.2750	Stock	4.705	.470	10° x 3/8"	.050	.080	5° Dish	76
11640-8	Int.	45.5mm	.2750	Stock	4.705	.470	10° x 3/8"	.050	.080	5° Dish	78
1999 AND LATER w/ BEAD LOC® GROOVE											
11637B-8	Exh.	36.0mm	.2740	Stock	4.650	.485	15° x 1/2"	.060	.080	9° Dish	66
11639B-8	Exh.	37.0mm	.2740	Stock	4.650	.485	15° x 1/2"	.060	.080	9° Dish	68
11636B-8	Int.	44.5mm	.2750	Stock	4.705	.485	10° x 3/8"	.050	.080	5° Dish	76
11640B-8	Int.	45.5mm	.2750	Stock	4.705	.485	10° x 3/8"	.050	.080	5° Dish	78
1996 - 1998 w/ TRIPLE GROOVE											
11635-8	Exh.	34.0mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	62
11637-8*	Exh.	36.0mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	66
11634-8	Int.	44.5mm	.2750	Stock	4.630	.470	10° x 3/8"	.050	.080	5° Dish	77
11638-8*	Int.	46.83mm	.2750	Stock	4.630	.470	10° x 3/8"	.050	.080	5° Dish	82
1996 - 1998 w/ BEAD LOC® GROOVE											
11635B-8	Exh.	34.0mm	.2740	Stock	4.650	.485	15° x 1/2"	.060	.080	9° Dish	62
11637B-8*	Exh.	36.0mm	.2740	Stock	4.650	.485	15° x 1/2"	.060	.080	9° Dish	66
11634B-8	Int.	44.5mm	.2750	Stock	4.630	.485	10° x 3/8"	.050	.080	5° Dish	77
11638B-8*	Int.	46.83mm	.2750	Stock	4.630	.485	10° x 3/8"	.050	.080	5° Dish	82

* Part numbers 11637-8, 11637B-8, 11638-8 and 11638B-8 are for the Ford Racing M-6049-D46 cylinder head.

Ford 4.6L & 5.4L SOHC 3 Valve

Race Master Valves & Extreme Duty Valves

Must use factory locks for triple grooves and use Manley's Bead Loc® P/N 13088-24 with the Bead Loc® single radius groove. These Manley valves are boxed in sets of 8 pieces. Please order two boxes of intakes and one box of exhausts to fit your engine.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
EXTREME DUTY VALVES w/ TRIPLE GROOVE											
11631-8	Exh.	37.5mm	.2345	Stock	4.585	.380	25° x 11/32"	.080	.100	20° Dish	68
11633-8	Exh.	38.5mm	.2345	Stock	4.585	.380	25° x 11/32"	.080	.100	20° Dish	70
EXTREME DUTY VALVES w/ BEAD LOC® GROOVE											
11631B-8	Exh.	37.5mm	.2345	Stock	4.585	.395	25° x 11/32"	.080	.100	20° Dish	68
11633B-8	Exh.	38.5mm	.2345	Stock	4.585	.395	25° x 11/32"	.080	.100	20° Dish	70
RACE MASTER VALVES w/ TRIPLE GROOVE											
11630-8	Int.	34mm	.2355	Stock	4.620	.315	12° x 5/16"	.065	.100	8° Dish	53
11632-8	Int.	35mm	.2355	Stock	4.620	.315	12° x 5/16"	.065	.100	8° Dish	54
RACE MASTER VALVES w/ BEAD LOC® GROOVE											
11630B-8	Int.	34mm	.2355	Stock	4.620	.330	12° x 5/16"	.065	.100	8° Dish	53
11632B-8	Int.	35mm	.2355	Stock	4.620	.330	12° x 5/16"	.065	.100	8° Dish	54

Ford 4.6L & 5.4L DOHC 4 Valve

Race Master Valves

Must use factory locks for triple grooves and use Manley's Bead Loc® P/N 13089-32 with the Bead Loc® single radius groove.

These Manley valves are boxed in sets of 8 pieces. Please order two boxes of both intakes and exhausts to fit your engine.

We can also custom build Extreme Duty exhaust valves from our P/N 11281 GEN II blank stainless valve on page 42.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
TRIPLE GROOVE											
11615-8	Exh.	30mm	.2740	Stock	4.587	.425	15° x 1/2"	.050	.080	9° Dish	53
11617-8	Exh.	31mm	.2740	Stock	4.587	.425	15° x 1/2"	.050	.080	9° Dish	55
11616-8	Int.	37mm	.2750	Stock	5.339	.620	10° x 3/8"	.045	.080	5° Dish	68
11618-8	Int.	38mm	.2750	Stock	5.339	.620	10° x 3/8"	.045	.080	5° Dish	70
BEAD LOC® GROOVE											
11615B-8	Exh.	30mm	.2740	Stock	4.587	.440	15° x 1/2"	.050	.080	9° Dish	53
11617B-8	Exh.	31mm	.2740	Stock	4.587	.440	15° x 1/2"	.050	.080	9° Dish	55
11616B-8	Int.	37mm	.2750	Stock	5.339	.635	10° x 3/8"	.045	.080	5° Dish	68
11618B-8	Int.	38mm	.2750	Stock	5.339	.635	10° x 3/8"	.045	.080	5° Dish	70

STAINLESS VALVES

VALVES

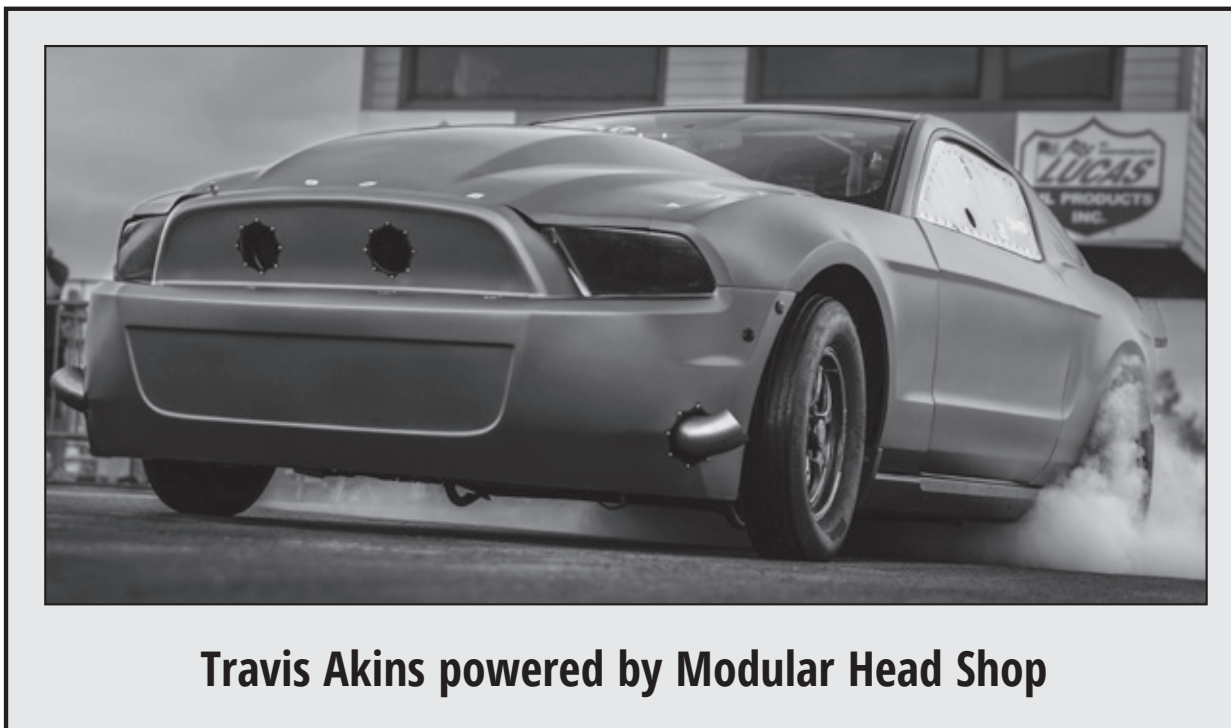
Ford "Coyote" 5.0L Gen I/II DOHC 4 Valve Race Master & Extreme Duty Valves

Must use factory locks for triple grooves and use Manley's Bead Loc® P/N 13086-32 with the Bead Loc® single radius groove.
These Manley valves are boxed in sets of 8 pieces. Please order two boxes of both intakes and exhausts to fit your engine.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
RACE MASTER VALVES w/ TRIPLE GROOVE											
11623-8	Exh.	31mm	.2345	Stock	4.274	.305	30° x 11/32"	.050	.080	25° Dish	44
11625-8	Exh.	31.5mm	.2345	Stock	4.274	.305	30° x 11/32"	.050	.080	25° Dish	45
11627-8	Exh.	32mm	.2345	Stock	4.274	.305	30° x 11/32"	.050	.080	25° Dish	46
EXTREME DUTY VALVES w/ TRIPLE GROOVE											
12623-8	Exh.	31mm	.2345	Stock	4.274	.305	25° x 11/32"	.050	.080	20° Dish	46
12625-8	Exh.	31.5mm	.2345	Stock	4.274	.305	25° x 11/32"	.050	.080	20° Dish	47
12627-8	Exh.	32mm	.2345	Stock	4.274	.305	25° x 11/32"	.050	.080	20° Dish	48
RACE MASTER VALVES w/ TRIPLE GROOVE											
11622-8*	Int.	37mm	.2355	Stock	4.722	.365	10° x 5/16"	.045	.080	5° Dish	54
11624-8*	Int.	37.5mm	.2355	Stock	4.722	.365	10° x 5/16"	.045	.080	5° Dish	55
11626-8*	Int.	38mm	.2355	Stock	4.722	.365	10° x 5/16"	.045	.080	5° Dish	56
RACE MASTER VALVES w/ BEAD LOC® GROOVE											
11623B-8	Exh.	31mm	.2345	Stock	4.274	.320	30° x 11/32"	.050	.080	25° Dish	44
11625B-8	Exh.	31.5mm	.2345	Stock	4.274	.320	30° x 11/32"	.050	.080	25° Dish	45
11627B-8	Exh.	32mm	.2345	Stock	4.274	.320	30° x 11/32"	.050	.080	25° Dish	46
EXTREME DUTY VALVES w/ BEAD LOC® GROOVE											
12623B-8	Exh.	31mm	.2345	Stock	4.274	.320	25° x 11/32"	.050	.080	20° Dish	46
12625B-8	Exh.	31.5mm	.2345	Stock	4.274	.320	25° x 11/32"	.050	.080	20° Dish	47
12627B-8	Exh.	32mm	.2345	Stock	4.274	.320	25° x 11/32"	.050	.080	20° Dish	48
RACE MASTER VALVES w/ BEAD LOC® GROOVE											
11622B-8*	Int.	37mm	.2355	Stock	4.722	.380	10° x 5/16"	.045	.080	5° Dish	54
11624B-8*	Int.	37.5mm	.2355	Stock	4.722	.380	10° x 5/16"	.045	.080	5° Dish	55
11626B-8*	Int.	38mm	.2355	Stock	4.722	.380	10° x 5/16"	.045	.080	5° Dish	56

* Intakes have backcut - .050" x 30°



Travis Akins powered by Modular Head Shop

Ford "Raptor" 6.2L SOHC 2 Valve Race Master Valves

Must use factory locks for triple grooves and use Manley's Bead Loc® P/N 13087-16 with the Bead Loc® single radius groove.

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
TRIPLE GROOVE											
11611-8	Exh.	42mm	.3120	Stock	5.356	.110	25° x 7/16"	.060	.100	20° Dish	99
11613-8	Exh.	43mm	.3120	Stock	5.356	.110	25° x 7/16"	.060	.100	20° Dish	100
11610-8*	Int.	53.5mm	.3122	Stock	5.424	.110	12° x 5/16"	.050	.080	7° Dish	120
11612-8*	Int.	54.5mm	.3122	Stock	5.424	.110	12° x 5/16"	.050	.080	7° Dish	123
11612H-8*	Int.	54.5mm	.3122 Hollow Stem	Stock	5.424	.110	12° x 5/16"	.050	.080	7° Dish	109
BEAD LOC® GROOVE											
11611B-8	Exh.	42mm	.3120	Stock	5.356	.125	25° x 7/16"	.060	.100	20° Dish	99
11613B-8	Exh.	43mm	.3120	Stock	5.356	.125	25° x 7/16"	.060	.100	20° Dish	100
11610B-8*	Int.	53.5mm	.3122	Stock	5.424	.125	12° x 5/16"	.050	.080	7° Dish	120
11612B-8*	Int.	54.5mm	.3122	Stock	5.424	.125	12° x 5/16"	.050	.080	7° Dish	123
11612HB-8*	Int.	54.5mm	.3122 Hollow Stem	Stock	5.424	.125	12° x 5/16"	.050	.080	7° Dish	109

* Intakes have backcut - .050" x 30°

Ford 289 - 302 - 351W Budget Performance, Street Flo, & Race Flo Valves

- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
BUDGET PERFORMANCE VALVES FOR USE WITH NON-RAIL OR ROLLER ROCKERS											
10549-8*	Exh.	1.600	.3415	Stock	4.911	.250	15° x 1/2"	.060	.100	10° Dish	101
10548-8*	Int.	1.900	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	6° Dish	105
10576-8*	Int.	1.940	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	6° Dish	116
10550-8*	Int.	2.020	.3415	Stock	4.911	.250	10° x 3/8"	.050	.080	6° Dish	109
RACE FLO VALVES FOR USE WITH NON RAIL OR ROLLER ROCKERS											
11531-8*	Exh.	1.600	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.060	.100	7° Dish	94
11532-8*	Int.	1.940	.3415	Stock	4.911	.250	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	107
11566-8*	Int.	2.020	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.050	.080	5° Dish	113
STREET FLO VALVES FOR USE WITH RAIL TYPE ROCKERS											
10723-8	Exh.	1.465	.3415	Stock	5.080	.395	Pro Flo: 12° x 3/8"	.060	.100	7° Dish	93
10775-8	Exh.	1.550	.3415	Stock	5.080	.395	Pro Flo: 12° x 3/8"	.060	.100	7° Dish	94
10778-8	Int.	1.850	.3420	Stock	5.075	.395	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	105
RACE FLO VALVES FOR USE WITH RAIL TYPE ROCKERS											
11523-8	Exh.	1.465	.3415	Stock	5.080	.395	Pro Flo: 12° x 3/8"	.060	.100	5° Dish	93
11575-8	Exh.	1.550	.3415	Stock	5.080	.395	Pro Flo: 12° x 3/8"	.060	.100	5° Dish	94
11889-8	Exh.	1.600	.3415	Stock	5.080	.395	Pro Flo: 15° x 1/2"	.060	.100	9° Dish	96
11572-8	Int.	1.785	.3420	Stock	5.075	.395	Pro Flo: 12° x 3/8"	.050	.080	5° Dish	104
11578-8	Int.	1.850	.3420	Stock	5.075	.395	Pro Flo: 12° x 3/8"	.050	.080	5° Dish	105
11888-8	Int.	1.940	.3420	Stock	5.075	.395	Pro Flo: 12° x 3/8"	.050	.080	5° Dish	110

* Ford valves with .250" tips must use non-rail type rockers or roller rockers.

Ford S.V.O. straight stem equivalents: P/N 11575 = M-6505-G302 P/N 11578 = M-6507-G302

Ford 351C

Race Master Valves & Severe Duty® Valves

- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
RACE MASTER VALVES											
11873-8	Exh.	1.710	.3415	Stock	5.042	.250	12° x 3/8"	.060	.100	7° Dish	104
11872-8	Int.	2.190	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	129
11874-8	Int.	2.250	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	130
SEVERE DUTY® VALVES											
11807-8	Exh.	1.655	.3415	Stock	5.067	.220	12° x 3/8"	.085	.085	7° Dish	102
11853-8	Exh.	1.655	.3415	.100 Longer	5.167	.250	12° x 3/8"	.085	.085	7° Dish	105
11805-8	Exh.	1.710	.3415	Stock	5.067	.220	12° x 3/8"	.085	.085	7° Dish	108
11857-8	Exh.	1.710	.3415	.100 Longer	5.167	.250	12° x 3/8"	.085	.085	7° Dish	111
11800-8	Int.	2.190	.3415	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	139
11822-8	Int.	2.190	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	140
11802-8	Int.	2.250	.3415	Stock	5.244	.250	12° x 3/8"	.050	.100	7° Dish	139
11850-8	Int.	2.250	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.100	7° Dish	142

Ford SVO "Sportsman"

N-351 Cylinder Head

Race Master Valves & Severe Duty® Valves

- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
RACE MASTER VALVES											
11321-8	Exh.	1.600	.3415	Stock	5.165	.290	15° x 1/2"	.090	.100	9° Dish	112
11316-8	Int.	2.020	.3415	Stock	5.140	.290	12° x 3/8"	.065	.080	7° Dish	127
SEVERE DUTY® VALVES											
11865-8	Exh.	1.600	.3415	Stock	5.121	.250	15° x 1/2"	.070	.100	9° Dish	105
11751-8	Exh.	1.600	.3415	Stock	5.165	.290	15° x 1/2"	.090	.100	9° Dish	110
11544-8	Int.	2.020	.3415	Stock	5.140	.290	10° x 3/8"	.065	.080	5° Dish	125

Need a different length? Head diameter not listed? Prefer a BeadLoc® groove?
See pages 42 & 43 for Gen II blanks to construct a valve to your exact specifications.

Ford 2300 "Esslinger" Race Master Valves



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head	Wgt/ Grams
SEMI-FINISHED VALVES FOR "ESSLINGER" HEADS											
11791-4	Exh.	1.590	.3415	*	4.800	*	15° x 1/2"	.060	.100	9° Dish	105
11790-4	Int.	1.890	.3415	*	4.800	*	10° x 3/8"	.050	.080	5° Dish	110
FINISHED VALVES FOR "ESSLINGER" FLAT TAPPET APPLICATIONS											
11793-4	Exh.	1.590	.3415	Stock	4.800	.550	15° x 1/2"	.060	.100	9° Dish	104
11792-4	Int.	1.890	.3415	Stock	4.800	.550	10° x 3/8"	.050	.080	5° Dish	109
FINISHED VALVES FOR "ESSLINGER" ROLLER TAPPET APPLICATIONS											
11795-4	Exh.	1.590	.3415	Stock	4.800	.400	15° x 1/2"	.060	.100	9° Dish	104
11794-4	Int.	1.890	.3415	Stock	4.800	.400	10° x 3/8"	.050	.080	5° Dish	109

Valves 11790 and 11791 have hard tips but no grooves. Use P/N 04008 to order custom grooved valves.

Ford 429 - 460 Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11875-8	Exh.	1.760	.3415	Stock	5.042	.250	12° x 3/8"	.060	.100	7° Dish	110
11872-8	Int.	2.190	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	129
11874-8	Int.	2.250	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	130
BLUE THUNDER HEADS											
11829-8	Exh.	1.880	.3415	Stock	5.070	.250	25° x 3/8"	.090	.100	20° Dish	118
11899-8	Exh.	1.880	.3415	.100 Longer	5.170	.250	25° x 3/8"	.090	.100	20° Dish	120
11874-8	Int.	2.250	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	130

Ford 429 - 460 Severe Duty® Valves

- ▶ XH-428 Stainless Exhaust Material
- ▶ NK-844 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11529-8	Exh.	1.760	.3415	Stock	5.067	.250	12° x 3/8"	.085	.085	7° Dish	113
11801-8	Exh.	1.760	.3415	.100 Longer	5.167	.250	12° x 3/8"	.085	.085	7° Dish	116
11800-8	Int.	2.190	.3415	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	139
11822-8	Int.	2.190	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	140
11802-8	Int.	2.250	.3415	Stock	5.244	.250	12° x 3/8"	.050	.100	7° Dish	139
11850-8	Int.	2.250	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.100	7° Dish	142

The size of the Super Cobra Jet valves are 2.245" Int. (30° seat) and 1.750" Exh. Other 429 - 460 cylinder heads have smaller valve diameters. Our valves can be easily cut or the seats enlarged.

Need a different length? Head diameter not listed? Prefer a BeadLoc® groove?
See pages 42 & 43 for Gen II blanks to construct a valve to your exact specifications.

STAINLESS VALVES

VALVES

Ford 429 - 460

Aluminum Aftermarket Heads Race Master & Severe Duty® Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-844 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
RACE MASTER VALVES											
11591-8	Exh.	1.880	.3415	Stock	5.655	.260	25° x 3/8"	.075	.100	20° Dish	129
SEVERE DUTY® VALVES											
11586-8	Int.	2.250	.3415	Stock	5.725	.260	10° x 13/32"	.065	.075	5° Dish	153
11588-8	Int.	2.300	.3415	Stock	5.725	.260	10° x 13/32"	.065	.075	5° Dish	166
11590-8	Int.	2.400	.3415	Stock	5.725	.260	10° x 13/32"	.065	.075	5° Dish	170

(11588 = M-6507-A460; 11586 = M-6507-B460; 11591 = M-6505-A460; 11590 = M-6507-E460)

Ford 427

Medium, Hi Riser, Tunnel Port Severe Duty® Solid Stem Valves

- ▶ XH-428 Stainless Exhaust Material
- ▶ NK-844 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11825-8	Exh.	1.750	.3705	Stock	5.426	.320	20° x 3/8"	.060	.100	15° Dish	124
11884-8	Int.	2.190	.3715	Stock	5.446	.320	23° x 5/16"	.070	.120	20° Dish	143
11804-8	Int.	2.250	.3715	Stock	5.454	.320	23° x 5/16"	.065	.090	20° Dish	145

The above valves can be cut down to 1.656" for the 428 exhaust and 2.090" for the 428 intake. The lengths of the 427 and 428 valves are the same. Valves 11804 and 11884 have a 30° seat.

Ford Boss 429

Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11787-8	Exh.	1.900	.3715	Stock	5.650	.350	15° x 1/2"	.080	.100	9° Dish	122
11786-8*	Int.	2.280	.3715	Stock	5.625	.350	12° x 3/8"	.060	.100	7° Dish	141
11788-8*	Int.	2.400	.3715	Stock	5.570	.350	12° x 3/8"	.060	.100	7° Dish	143

* P/N 11786-8 & P/N 11788-8 have a 30° seat

5.570" is the length of the NASCAR intake valve. It is short because it is sunk in the head. If you do not wish to sink the valve, order a GEN II intake at your desired length.

Volkswagen Rabbit

Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Chrome Stems, Swirl Polished and Fully Machined
- ▶ Special Hard Tips and Hardened Keeper Grooves



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11657-4	Exh.	34.0mm	.3130	Stock	3.976	.130	15° x 3/8"	.075	.075	10° Dish	63
11656-4	Int.	40.5mm	.3130	Stock	3.976	.130	10° x 11/32"	.075	.075	5° Dish	76

Volkswagen 1200 - 1600

Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Available with factory triple or Chevy LS single radius keeper grooves. See pages 72 and 73 for compatible valve springs and retainers when using the Chevy LS keeper groove.
- ▶ Chrome Stems, Swirl Polished and Fully Machined
- ▶ Special Hard Tips and Hardened Keeper Grooves



Triple Groove Part No.	Single Groove Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11649-4	11649B-4	Exh.	32.0mm	.3130	Stock	4.405	.170	15° x 3/8"	.070	.090	10° Dish	65
11651-4	11651B-4	Exh.	33.0mm	.3130	Stock	4.405	.170	15° x 3/8"	.070	.090	10° Dish	67
11653-4	11653B-4	Exh.	35.5mm	.3130	Stock	4.405	.170	15° x 3/8"	.070	.090	10° Dish	69
11655-4	11655B-4	Exh.	37.5mm	.3130	Stock	4.405	.170	15° x 3/8"	.070	.090	10° Dish	73
11650-4	11650B-4	Int.	40.0mm	.3130	Stock	4.405	.170	10° x 11/32"	.070	.090	6° Dish	79
11652-4	11652B-4	Int.	42.0mm	.3130	Stock	4.405	.170	10° x 11/32"	.070	.090	6° Dish	79
11654-4	11654B-4	Int.	43.7mm	.3130	Stock	4.405	.170	10° x 11/32"	.070	.090	6° Dish	83

Volkswagen Type IV

Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material
- ▶ Available with factory triple or Chevy LS single radius keeper grooves. See pages 72 and 73 for compatible valve springs and retainers when using the Chevy LS keeper groove.
- ▶ Chrome Stems, Swirl Polished and Fully Machined
- ▶ Special Hard Tips and Hardened Keeper Grooves



Triple Groove Part No.	Single Groove Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Wgt / Grams
11629-4*	-----	Exh.	36mm	.3130	Stock	4.606	.170	15° x 1/2"	.060	.075	9° Dish	77
11659-4	11659B-4	Exh.	38mm	.3130	Stock	4.606	.170	15° x 1/2"	.060	.075	9° Dish	78
11663-4	11663B-4	Exh.	40mm	.3130	Stock	4.606	.170	15° x 1/2"	.060	.100	9° Dish	88
11628-4*	-----	Int.	42mm	.3130	Stock	4.606	.170	10° x 3/8"	.060	.075	5° Dish	84
11602-4	-----	Int.	44mm	.3130	Stock	4.606	.170	10° x 3/8"	.060	.075	5° Dish	89
11604-4	-----	Int.	46mm	.3130	Stock	4.606	.170	10° x 3/8"	.060	.075	5° Dish	94
11658-4	11658B-4	Int.	48mm	.3130	Stock	4.606	.170	10° x 3/8"	.060	.075	5° Dish	100
11662-4	11662B-4	Int.	50mm	.3130	Stock	4.606	.170	10° x 3/8"	.060	.075	5° Dish	101

* Replacement valves for the Porsche 914 2.0L

CUSTOM STAINLESS VALVES

VALVES

Gen II Valve Blanks

Extreme Duty & Severe Duty® Series

- ▶ Hard Tips and Hardened Grooves
- ▶ No Need for Inserted Tips or Wear Caps

The procedure for ordering a custom valve is as simple as 1-2-3!

1. Select the blank appropriate for your finished piece based first on stem diameter.
2. Give us your final head diameter along with the seat and margin widths.
3. Specify the length of the valve you want, along with groove type and location.

All part numbers can be reduced 1.500" or 38mm, except P/N's 11223/11277 which can be reduced 1.800".



All Gen II custom stainless valve part numbers are priced to include all machining to render a finished valve provided that no more than .250" of material needs to be removed from the head diameter. If more than .250" of material is to be removed from the head diameter, then an additional machining charge P/N 04007 must be added to the price of the valve.

Part No.	Type	Maximum Head Diameter	Stem Diameter	Maximum Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Material
XTREMEALLOY GEN II CUSTOM EXHAUST VALVES									
11225-8	Exh.	41.3mm / 1.625	.3415	142.2mm / 5.600	15° x 1/2"	.080	.100	9° Dish	XtremeAlloy
11223-8	Exh.	52.3mm / 2.060	.3415	170.2mm / 6.700	15° x 1/2"	.080	.100	9° Dish	XtremeAlloy
11277-8	Exh.	52.3mm / 2.060	.3415	170.2mm / 6.700	18° x 1/2"	.080	.100	Flat Face	XtremeAlloy
11275-8	Exh.	42.0mm / 1.654	8.0mm / .3136	146.0mm / 5.750	25° x 7/16"	.065	.100	18° Dish	XtremeAlloy
11285-8	Exh.	41.9mm / 1.650	.3110	154.9mm / 6.100	15° x 1/2"	.080	.100	9° Dish	XtremeAlloy
11257-8	Exh.	44.5mm / 1.750	.3095	137.2mm / 5.400	25° x 3/8"	.060	.100	20° Dish	XtremeAlloy
11281-8	Exh.	38.0mm / 1.496	6.96mm / .2740	127.0mm / 5.000	15° x 1/2"	.080	.100	9° Dish	XtremeAlloy
11265-8	Exh.	39.0mm / 1.535	5.96mm / .2345	121.9mm / 4.800	25° x 11/32"	.080	.100	20° Dish	XtremeAlloy
11283-8	Exh.	33.0mm / 1.299	5.46mm / .2150	121.0mm / 4.764	25° x 11/32"	.065	.080	Flat Face	XtremeAlloy
SEVERE DUTY® GEN II CUSTOM VALVES									
11251-8	Exh.	49.3mm / 1.940	.3715	143.5mm / 5.650	12° x 3/8"	.085	.100	7° Dish	XH-428
11252-8	Int.	58.4mm / 2.300	.3720	142.2mm / 5.600	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	NK-844
11252H-8	Int.	58.4mm / 2.300	.3720 Hollow Stem	142.2mm / 5.600	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	NK-844
Pro Flo start is 1.600" from the top of the head.									
11245-8	Exh.	41.3mm / 1.625	.3415	143.3mm / 5.640	15° x 1/2"	.090	.100	9° Dish	XH-428
11255-8	Exh.	41.3mm / 1.625	.3415	143.3mm / 5.640	30° x 1/2"	.070	.100	25° Dish	XH-428
11253-8	Exh.	49.3mm / 1.940	.3415	143.5mm / 5.650	12° x 3/8"	.075	.080	7° Dish	XH-428
11221-8	Exh.	50.8mm / 2.000	.3415	170.2mm / 6.700	25° x 3/8"	.080	.100	20° Dish	XH-428
11219-8	Exh.	52.3mm / 2.060	.3415	170.2mm / 6.700	15° x 1/2"	.080	.100	9° Dish	XH-428
11256-8	Int.	52.8mm / 2.080	.3415	143.3mm / 5.640	10° x 3/8"	.065	.080	5° Dish	NK-844
11254-8	Int.	54.6mm / 2.150	.3415	143.3mm / 5.640	12° x 3/8"	.065	.080	7° Dish	NK-844
11254H-8	Int.	54.6mm / 2.150	.3415 Hollow Stem	143.3mm / 5.640	12° x 3/8"	.065	.080	7° Dish	NK-844
11242-8	Int.	54.6mm / 2.150	.3415	143.6mm / 5.655	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	NK-844
Pro Flo start is 1.600" from the top of the head.									
11258-8	Int.	61.6mm / 2.425	.3415	144.8mm / 5.700	12° x 3/8"	.065	.080	7° Dish	NK-844
11220-8	Int.	63.5mm / 2.500	.3415	172.7mm / 6.800	10° x 3/8"	.050	.080	5° Dish	NK-844
11222-8	Int.	61.6mm / 2.425	.3415	170.2mm / 6.700	20° x 3/8"	.050	.080	15° Dish	NK-844
11279-8	Exh.	42.0mm / 1.654	8.0mm / .3136	142.2mm / 5.600	25° x 7/16"	.065	.100	18° Dish	XH-428
11274-8	Int.	58.4mm / 2.300	8.0mm / .3133	142.5mm / 5.610	Pro Flo: 12° x 3/8"	.070	.100	7° Dish	NK-844
11274H-8	Int.	58.4mm / 2.300	8.0mm / .3133 Hollow Stem	142.5mm / 5.610	Pro Flo: 12° x 3/8"	.070	.100	7° Dish	NK-844
Pro Flo start is 1.300" from the top of the head.									
11227-8	Exh.	41.3mm / 1.625	.3110	146.1mm / 5.750	15° x 1/2"	.080	.100	9° Dish	XH-428
11263-8	Exh.	49.3mm / 1.940	.3110	154.9mm / 6.100	12° x 3/8"	.085	.100	7° Dish	XH-428
11224-8	Int.	55.9mm / 2.200	.3110	146.1mm / 5.750	12° x 3/8"	.050	.080	7° Dish	NK-844
11224H-8	Int.	55.9mm / 2.200	.3110 Hollow Stem	146.1mm / 5.750	12° x 3/8"	.050	.080	7° Dish	NK-844
11264-8	Int.	61.0mm / 2.400	.3110	160.0mm / 6.300	10° x 3/8"	.065	.080	5° Dish	NK-844
11264H-8	Int.	61.0mm / 2.400	.3110 Hollow Stem	160.0mm / 6.300	10° x 3/8"	.065	.080	5° Dish	NK-844
11229-8	Exh.	41.3mm / 1.625	6.96mm / .2740	142.2mm / 5.600	15° x 1/2"	.080	.100	9° Dish	XH-428
11226-8	Int.	55.9mm / 2.200	6.96mm / .2740	142.2mm / 5.600	10° x 3/8"	.050	.080	5° Dish	NK-844

CUSTOM STAINLESS VALVES

Gen II Valve Blanks

Race Series

- ▶ Hard Tips and Hardened Grooves
- ▶ No Need for Inserted Tips or Wear Caps

The procedure for ordering a custom valve is as simple as 1-2-3 !

1. Select the blank appropriate for your finished piece based first on stem diameter.
2. Give us your final head diameter along with the seat and margin widths.
3. Specify the length of the valve you want, along with groove type and location.

* Part numbers with asterisks can be reduced .800" or 20.32mm. All others 1.500" or 38mm.

All Gen II custom stainless valve part numbers are priced to include all machining to render a finished valve provided that no more than .250" of material needs to be removed from the head diameter. If more than .250" of material is to be removed from the head diameter, then an additional machining charge P/N 04007 must be added to the price of the valve.



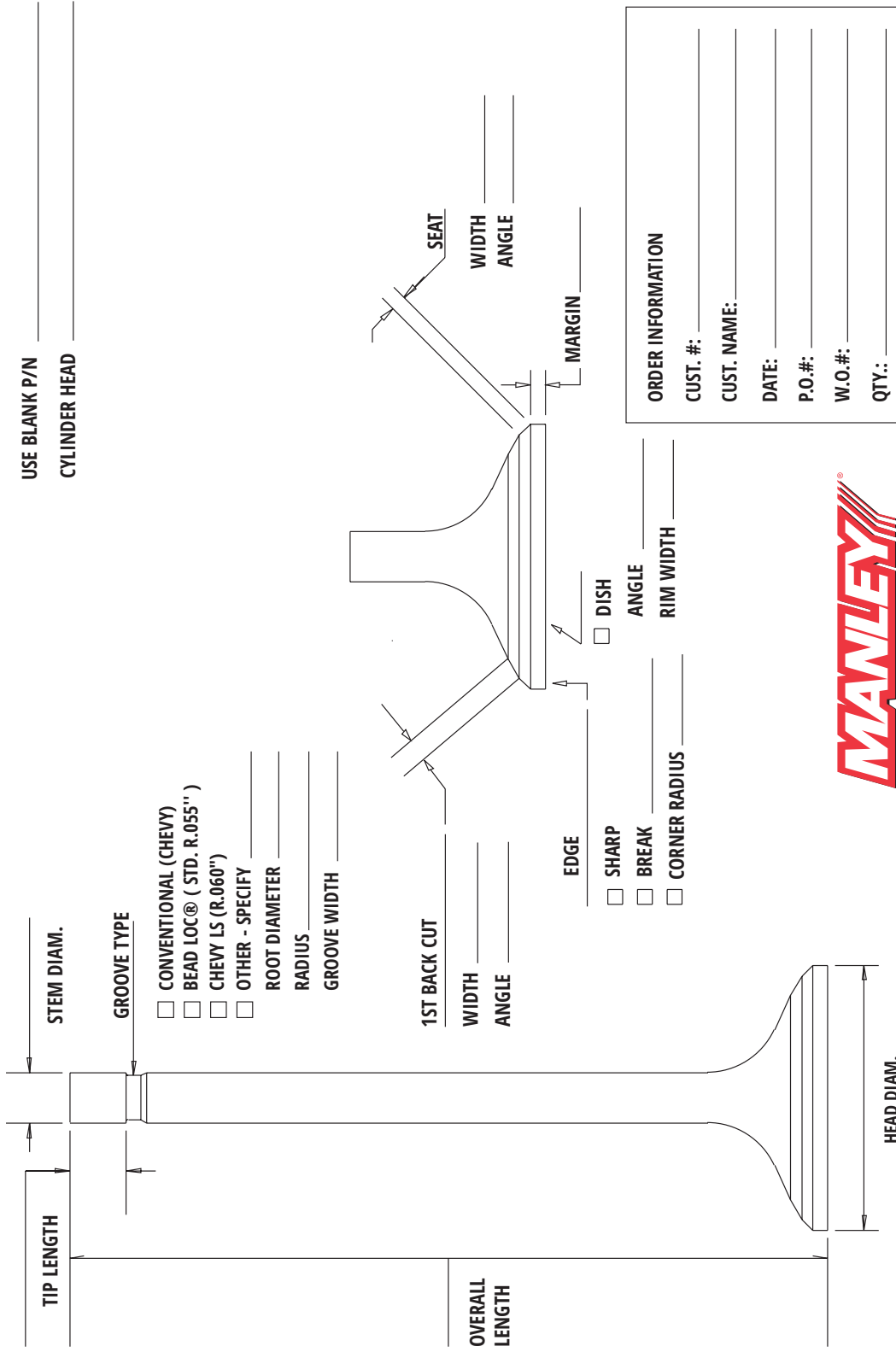
VALVES

Part No.	Type	Maximum Head Diameter	Stem Diameter	Maximum Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Material
11215-8	Exh.	49.3mm / 1.940	.3715	143.5mm / 5.650	15° x 1/2"	.080	.100	9° Dish	XH-426
11214-8	Int.	61.6mm / 2.425	.3715	143.5mm / 5.650	12° x 3/8"	.050	.080	7° Dish	NK-842
11203-8	Exh.	41.3mm / 1.625	.3415	139.7mm / 5.500	15° x 1/2"	.090	.100	9° Dish	XH-426
11217-8	Exh.	41.9mm / 1.650	.3415	143.3mm / 5.640	Pro Flo: 15° x 1/2"	.090	.100	9° Dish	XH-426
Pro Flo start is 1.600" from the top of the head.									
11243-8	Exh.	48.3mm / 1.900	.3415	144.8mm / 5.700	25° x 3/8"	.080	.100	20° Dish	XH-426
11201-8	Exh.	49.3mm / 1.940	.3415	162.9mm / 6.415	25° x 3/8"	.080	.100	20° Dish	XH-426
11241-8	Exh.	49.3mm / 1.940	.3415	152.4mm / 6.000	10° x 3/8"	.075	.100	5° Dish	XH-426
11218-8	Int.	54.0mm / 2.125	.3415	140.7mm / 5.540	12° x 3/8"	.065	.080	7° Dish	NK-842
11216-8	Int.	54.6mm / 2.150	.3415	143.6mm / 5.655	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	NK-842
Pro Flo start is 1.600" from the top of the head.									
11200-8	Int.	60.3mm / 2.375	.3415	144.8mm / 5.700	10° x 3/8"	.050	.080	5° Dish	NK-842
11244-8	Int.	61.6mm / 2.425	.3415	167.6mm / 6.600	10° x 3/8"	.050	.080	5° Dish	NK-842
11211-4	Exh.	38.5mm / 1.516	8.0mm / .3130	114.3mm / 4.500	15° x 3/8"	.060	.090	10° Dish	XH-426
11205-4	Exh.	40.0mm / 1.575	8.0mm / .3130	127.0mm / 5.000	15° x 1/2"	.080	.100	9° Dish	XH-426
11210-4	Int.	48.5mm / 1.909	8.0mm / .3130	114.3mm / 4.500	10° x 11/32"	.060	.080	5° Dish	NK-842
11204-4	Int.	52.0mm / 2.047	8.0mm / .3130	127.0mm / 5.000	10° x 3/8"	.050	.080	5° Dish	NK-842
11269-8	Exh.	42.0mm / 1.654	8.0mm / .3136	142.2mm / 5.600	25° x 7/16"	.065	.100	18° Dish	XH-426
11270-8	Int.	56.5mm / 2.225	8.0mm / .3133	142.2mm / 5.600	Pro Flo: 12° x 3/8"	.060	.095	7° Dish	NK-842
11270H-8	Int.	56.5mm / 2.225	8.0mm / .3133 Hollow Stem	142.2mm / 5.600	Pro Flo: 12° x 3/8"	.060	.095	7° Dish	NK-842
Pro Flo start is 1.300" from the top of the head.									
11271-8	Exh.	42.6mm / 1.675	.3125	134.6mm / 5.300	25° x 1/2"	.080	.100	20° Dish	XH-426
11272-8	Int.	56.5mm / 2.225	.3125	134.6mm / 5.300	Pro Flo: 10° x 5/16"	.065	.095	5° Dish	NK-842
11272H-8	Int.	56.5mm / 2.225	.3125 Hollow Stem	134.6mm / 5.300	Pro Flo: 10° x 5/16"	.065	.095	5° Dish	NK-842
Pro Flo start is 1.300" from the top of the head.									
11207-8	Exh.	41.3mm / 1.625	.3110	144.8mm / 5.700	15° x 1/2"	.080	.100	9° Dish	XH-426
11261-8	Exh.	41.3mm / 1.625	.3110	162.6mm / 6.400	18° x 1/2"	.080	.100	12° Dish	XH-426
11206-8	Int.	55.9mm / 2.200	.3110	144.8mm / 5.700	10° x 3/8"	.050	.080	5° Dish	NK-842
11262-8	Int.	53.3mm / 2.100	.3110	162.6mm / 6.400	12° x 3/8"	.050	.080	7° Dish	NK-842
11249-8	Exh.	53.3mm / 2.100	.3100	137.2mm / 5.400	22° x 1/4"	.050	.100	17° Dish	XH-426
11248-8	Int.	58.4mm / 2.300	.3100	149.9mm / 5.900	24° x 3/4"	.060	.080	19° Dish	NK-842
11247-8	Exh.	37.0mm / 1.457	6.96mm / .2740	121.9mm / 4.800	15° x 1/2"	.080	.100	9° Dish	XH-426
11246-8	Int.	48.0mm / 1.890	6.96mm / .2740	121.9mm / 4.800	10° x 3/8"	.050	.080	5° Dish	NK-842
11267-8	Exh.	41.9mm / 1.650	7.0mm / .2755	119.4mm / 4.700	30° x 1/2"	.060	.100	24° Dish	XH-426
11250-8	Int.	48.0mm / 1.890	7.0mm / .2750	137.9mm / 5.430	10° x 3/8"	.065	.080	5° Dish	NK-842
11268-8	Int.	50.8mm / 2.000	7.0mm / .2755	116.8mm / 4.600	28° x 7/16"	.050	.100	22° Dish	NK-842
11213-8*	Exh.	33.0mm / 1.299	6.0mm / .2362	113.5mm / 4.469	25° x 11/32"	.065	.080	20° Dish	XH-426
11212-8*	Int.	39.0mm / 1.535	6.0mm / .2362	113.5mm / 4.469	Pro Flo: 22° x 5/16"	.065	.080	17° Dish	NK-842
11266-8	Int.	35.0mm / 1.378	5.98mm / .2355	121.9mm / 4.800	12° x 5/16"	.065	.100	7° Dish	NK-842
11276-4*	Int.	40.0mm / 1.575	5.97mm / .2350	113.0mm / 4.449	25° x 11/32"	.065	.100	Flat Face	NK-842
11209-8*	Exh.	32.0mm / 1.260	5.46mm / .2150	121.0mm / 4.764	25° x 11/32"	.065	.080	Flat Face	XH-426
11208-8	Int.	37.0mm / 1.457	5.48mm / .2157	121.0mm / 4.764	Pro Flo: 22° x 5/16"	.065	.080	Flat Face	NK-842

Gen II CUSTOM VALVE FORM

PLEASE SEE GEN II CUSTOM VALVE SPECIFICATIONS PAGES 40 & 41

A WEAR CAP IS NOT NECESSARY WITH GEN II*



PLEASE FILL IN ALL DIMENSIONS AND ORDER INFORMATION
 USE BLANK P/N _____
 CYLINDER HEAD _____

ORDER INFORMATION

CUST. #: _____
 CUST. NAME: _____
 DATE: _____
 P.O.#: _____
 W.O.#: _____
 QTY.: _____
 DUE DATE: _____
 SHIP VIA: _____



PHONE: 732-905-3366
 FAX: 732-905-3010
 EMAIL: orders@manleyperformance.com

* Provided that the overall length is within the minimum length parameter of the Gen II blank that is machined.

By signing this form I accept the goods are nonreturnable for credit and that Manley takes no responsibility for incorrectly ordered items.

CUSTOMER NAME _____

CUSTOMER SIGNATURE _____ DATE ____/____/____

Titanium CUSTOM VALVE FORM

WITH HARD TIP P/N _____

WITHOUT HARD TIP _____

TIP LENGTH _____

STEM DIAM. _____

GROOVE TYPE _____

MOLY LENGTH _____

OVERALL LENGTH _____

MOLY START _____

HEAD DIAM. _____

USE BLANK P/N _____

CYLINDER HEAD _____

CONVENTIONAL (CHEVY)

BEAD LOC® (STD. R.055")

CHEVY LS (R.060")

OTHER - SPECIFY _____

ROOT DIAMETER _____

RADIUS _____

GROOVE WIDTH _____

1ST BACK CUT

WIDTH _____

ANGLE _____

2ND BACK CUT

WIDTH _____

ANGLE _____

EDGE _____

SHARP

BREAK

CORNER RADIUS _____

STRAIGHT LENGTH _____

PROFILE

TAPER ANGLE _____

UNDERCUT LEN. _____

BLEND RADIUS _____

UNDERCUT DIAM. _____

BACKANGLE & RADIUS

SEAT

WIDTH _____

ANGLE _____

MARGIN _____

DISH

ANGLE _____

RIM WIDTH _____

BLEND RADIUS & WIDTH _____

CENTER RADIUS _____

CRN COATING OPTIONS (CALICO)

SEAT FACE

TIP

FULL VALVE (CRN SLICK STEM)

ORDER INFORMATION

CUST. #: _____

CUST. NAME: _____

DATE: _____

P.O.#: _____

W.O.#: _____

QTY.: _____

DUE DATE: _____

SHIP VIA: _____

PLEASE FILL IN ALL DIMENSIONS AND ORDER INFORMATION



PHONE: 732-905-3366
 FAX: 732-905-3010
 EMAIL: orders@manleyperformance.com

By signing this form I accept the goods are nonreturnable for credit and that Manley takes no responsibility for incorrectly ordered items.

CUSTOMER NAME

CUSTOMER SIGNATURE _____ DATE ____/____/____

TITANIUM VALVES

VALVES

Small Block GM, Ford & Chrysler

Titanium Exhaust Valves

- ▶ All valves have inserted hard tips
- ▶ "HT" suffix indicates high temperature material
- ▶ Available with conventional square or Manley's Bead Loc® single radius keeper grooves



Square Groove Part No.	Bead Loc® Groove Part No.	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width/Angle	Wgt / Grams
11401T-8	11401TB-8	1.600	.3415	.100 Longer	5.060	.290	15° x 1/2"	.100	.100/45°	73
11403T-8	11403TB-8	1.600	.3415	.200 Longer	5.160	.290	15° x 1/2"	.100	.100/45°	74
11405T-8	11405TB-8	1.600	.3415	.300 Longer	5.260	.290	15° x 1/2"	.100	.100/45°	75
11407T-8	11407TB-8	1.600	.3415	.400 Longer	5.360	.290	15° x 1/2"	.100	.100/45°	76
11409T-8	11409TB-8	1.600	.3415	.500 Longer	5.460	.290	15° x 1/2"	.100	.100/45°	77
11451T-8	11451TB-8	1.600	.3415	.600 Longer	5.560	.290	15° x 1/2"	.100	.100/45°	78
11463T-8	11463TB-8	1.600	.3415	Stock	4.960	.290	20° x 7/16"	.100	.100/45°	74
11425T-8	11425TB-8	1.600	.3415	.100 Longer	5.060	.290	20° x 7/16"	.100	.100/45°	75
-----	11421TB-8	1.600	.3110	.200 Longer	5.140	.290	20° x 7/16"	.080	.100/45°	68
11467HT-8*	11467HTB-8*	1.600	.3415	.200 Longer	5.140	.290	20° x 7/16"	.080	.085/45°	73
11427T-8	11427TB-8	1.600	.3415	.200 Longer	5.140	.290	20° x 7/16"	.080	.100/45°	74
11427HT-8	11427HTB-8	1.600	.3415	.200 Longer	5.140	.290	20° x 7/16"	.080	.100/45°	74
11429T-8	11429TB-8	1.600	.3415	.300 Longer	5.260	.290	20° x 7/16"	.100	.100/45°	77
11431T-8	11431TB-8	1.600	.3415	.400 Longer	5.360	.290	20° x 7/16"	.100	.100/45°	78
11433T-8	11433TB-8	1.600	.3415	.500 Longer	5.460	.290	20° x 7/16"	.100	.100/45°	79
11471HT-8	11471HTB-8	1.600	.3415	.600 Longer	5.560	.290	20° x 7/16"	.100	.100/45°	80
-----	11487TB-8	1.600	.3415	.800 Longer	5.740	.290	20° x 7/16"	.080	.100/45°	82
11469HT-8	11469HTB-8	1.600	.3415	.600 Longer	5.560	.290	25° x 3/4"	.100	.100 /45°	83
11411T-8	11411TB-8	1.625	.3415	.100 Longer	5.060	.290	15° x 1/2"	.100	.100/45°	74
11413T-8	11413TB-8	1.625	.3415	.200 Longer	5.160	.290	15° x 1/2"	.100	.100/45°	75
11417T-8	11417TB-8	1.625	.3415	.400 Longer	5.360	.290	15° x 1/2"	.100	.100/45°	77
11419T-8	11419TB-8	1.625	.3415	.500 Longer	5.460	.290	15° x 1/2"	.100	.100/45°	78
11447T-8	11447TB-8	1.625	.3415	.600 Longer	5.560	.290	15° x 1/2"	.100	.100/45°	79
11435T-8	11435TB-8	1.625	.3415	.100 Longer	5.060	.290	20° x 7/16"	.100	.100/45°	75
11437T-8	11437TB-8	1.625	.3415	.200 Longer	5.140	.290	20° x 7/16"	.080	.100/45°	74
11439T-8	11439TB-8	1.625	.3415	.300 Longer	5.260	.290	20° x 7/16"	.100	.100/45°	77
11441T-8	11441TB-8	1.625	.3415	.400 Longer	5.360	.290	20° x 7/16"	.100	.100/45°	78
11443T-8	11443TB-8	1.625	.3415	.500 Longer	5.460	.290	20° x 7/16"	.100	.100/45°	79
11453T-8	11453TB-8	1.625	.3415	.600 Longer	5.560	.290	20° x 7/16"	.100	.100/45°	80
11453HT-8	11453HTB-8	1.625	.3415	.600 Longer	5.560	.290	20° x 7/16"	.100	.100/45°	80
-----	11475HTB-8	1.625	.3415	.700 Longer	5.660	.290	20° x 7/16"	.100	.100/45°	81
-----	11489TB-8	1.625	.3415	.800 Longer	5.740	.290	20° x 7/16"	.080	.100/45°	83
11455HT-8	11455HTB-8	1.625	.3415	.500 Longer	5.460	.290	25° x 3/4"	.100	.100/45°	85
11457T-8	11457TB-8	1.625	.3415	.600 Longer	5.560	.290	25° x 3/4"	.100	.100/45°	86
11457HT-8	11457HTB-8	1.625	.3415	.600 Longer	5.560	.290	25° x 3/4"	.100	.100/45°	86
11473T-8	11473TB-8	1.625	.3415	.700 Longer	5.660	.290	25° x 3/4"	.100	.100/45°	87
-----	11477TB-8	1.625	.3415	.700 Longer	5.640	.290	25° x 1/2"	.080	.100/55°	85
11445T-8	11445TB-8	1.650	.3415	.500 Longer	5.460	.290	20° x 7/16"	.100	.100/45°	81

*Valve P/N's 11467HT and 11467HTB have a back cut of .055" x 30°.

Small Block GM, Ford & Chrysler Up To 2.150" Head Diameters

Titanium Intake Valves

2.180" and 2.200" head diameter offerings continued on next page

- ▶ All valves have inserted hard tips
- ▶ "HT" suffix indicates higher hardness material
- ▶ Available with conventional square or Manley's Bead Loc® single radius keeper grooves
- ▶ "C" suffix indicates CrN seat coating (See page 53 for more details)



Square Groove Part No.	Bead Loc® Groove Part No.	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width/Angle	Back Cut Width/Angle	Wgt / Grams
11948T-8	11948TB-8	2.020	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	86
11452T-8	11452TB-8	2.055	.3415	Stock	4.940	.290	10° x 3/8"	.080	.100/45°	-----	85
11474T-8	11474TB-8	2.055	.3415	.100 Longer	5.040	.290	10° x 3/8"	.080	.100/45°	-----	86
11950T-8	11950TB-8	2.055	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	87
11454T-8	11454TB-8	2.080	.3415	Stock	4.940	.290	10° x 3/8"	.080	.100/45°	-----	86
-----	11440HTBC-8	2.080	.3110	.100 Longer	5.040	.290	10° x 3/8"	.080	.060/45°	.080/30°	80
11400T-8	11400TB-8	2.080	.3415	.100 Longer	5.040	.290	10° x 3/8"	.080	.100/45°	-----	87
-----	11400HTBC-8	2.080	.3415	.100 Longer	5.040	.290	10° x 3/8"	.080	.060/45°	.080/30°	87
-----	11472HTB-8	2.080	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	81
-----	11472HTBC-8	2.080	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	81
11402T-8	11402TB-8	2.080	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	88
-----	11402HTB-8	2.080	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	88
-----	11402HTBC-8	2.080	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	88
11404T-8	11404TB-8	2.080	.3415	.300 Longer	5.240	.290	10° x 3/8"	.080	.100/45°	-----	89
11408T-8	11408TB-8	2.100	.3415	.100 Longer	5.040	.290	10° x 3/8"	.080	.100/45°	-----	89
-----	11478HTB-8	2.100	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	82
-----	11478HTBC-8	2.100	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	82
11410T-8	11410TB-8	2.100	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	90
-----	11410HTB-8	2.100	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	90
-----	11410HTBC-8	2.100	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	90
11412T-8	11412TB-8	2.100	.3415	.300 Longer	5.240	.290	10° x 3/8"	.080	.100/45°	-----	91
11456T-8	11456TB-8	2.100	.3415	.300 Longer	5.240	.290	12° x 7/16"	.080	.100/45°	-----	93
11462HT-8	11462HTB-8	2.100	.3415	.345 Longer	5.285	.290	12° x 3/8"	.080	.090/45°	.090/30°	94
11414T-8	11414TB-8	2.100	.3415	.400 Longer	5.340	.290	10° x 3/8"	.080	.100/45°	-----	94
11416T-8	11416TB-8	2.100	.3415	.500 Longer	5.440	.290	10° x 3/8"	.080	.100/45°	-----	95
11446T-8	11446TB-8	2.100	.3415	.500 Longer	5.440	.290	12° x 7/16"	.080	.100/45°	-----	96
11434T-8	11434TB-8	2.100	.3415	.600 Longer	5.540	.290	10° x 3/8"	.080	.100/45°	-----	96
11442T-8	11442TB-8	2.125	.3415	.100 Longer	5.040	.290	10° x 3/8"	.080	.100/45°	-----	90
-----	11406HTB-8	2.125	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	83
-----	11406HTBC-8	2.125	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	83
11418T-8	11418TB-8	2.125	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	91
11420T-8	11420TB-8	2.125	.3415	.300 Longer	5.240	.290	10° x 3/8"	.080	.100/45°	-----	92
11422T-8	11422TB-8	2.125	.3415	.400 Longer	5.340	.290	10° x 3/8"	.080	.100/45°	-----	93
11424T-8	11424TB-8	2.125	.3415	.500 Longer	5.440	.290	10° x 3/8"	.080	.100/45°	-----	94
11448T-8	11448TB-8	2.125	.3415	.500 Longer	5.440	.290	12° x 7/16"	.080	.100/45°	-----	95
11436T-8	11436TB-8	2.125	.3415	.600 Longer	5.540	.290	10° x 3/8"	.080	.100/45°	-----	95
11470T-8	11470TB-8	2.125	.3415	.600 Longer	5.540	.290	12° x 7/16"	.080	.100/45°	-----	96
11428T-8	11428TB-8	2.150	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	94
11430T-8	11430TB-8	2.150	.3415	.300 Longer	5.240	.290	10° x 3/8"	.080	.100/45°	-----	95
11432T-8	11432TB-8	2.150	.3415	.400 Longer	5.340	.290	10° x 3/8"	.080	.100/45°	-----	96
11458T-8	11458TB-8	2.150	.3415	.400 Longer	5.340	.290	12° x 7/16"	.080	.100/45°	-----	97
11426T-8	11426TB-8	2.150	.3415	.500 Longer	5.440	.290	10° x 3/8"	.080	.100/45°	-----	97
11450T-8	11450TB-8	2.150	.3415	.500 Longer	5.440	.290	12° x 7/16"	.080	.100/45°	-----	98
-----	11496HTB-8	2.150	.3110	.600 Longer	5.540	.290	12° x 3/8"	.080	.100/45°	-----	91
11438T-8	11438TB-8	2.150	.3415	.600 Longer	5.540	.290	10° x 3/8"	.080	.100/45°	-----	99
11460T-8	11460TB-8	2.150	.3415	.600 Longer	5.540	.290	12° x 7/16"	.080	.100/45°	-----	100
-----	11460HTB-8	2.150	.3415	.600 Longer	5.540	.290	12° x 7/16"	.080	.100/45°	-----	100
-----	11498HTB-8	2.150	.3110	.700 Longer	5.640	.290	12° x 3/8"	.080	.100/45°	-----	92
11476HT-8	11476HTB-8	2.150	.3415	.700 Longer	5.640	.290	12° x 3/8"	.080	.100/45°	-----	101

2.180" and 2.200" head diameter offerings continued on next page

TITANIUM VALVES

Continued from page 47

VALVES

Small Block GM, Ford & Chrysler

Titanium Intake Valves

- ▶ All valves have inserted hard tips
- ▶ "HT" suffix indicates higher hardness material
- ▶ Available with conventional square or Manley's Bead Loc® single radius keeper grooves
- ▶ "C" suffix indicates CrN seat coating (See page 53 for more details)



Square Groove Part No.	Bead Loc® Groove Part No.	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width/Angle	Wgt / Grams
11466T-8	11466TB-8	2.180	.3415	.500 Longer	5.440	.290	12° x 3/8"	.080	.100/45°	99
-----	11494HTB-8	2.180	.3110	.600 Longer	5.540	.290	12° x 3/8"	.080	.100/45°	92
-----	11444HTBC-8*	2.180	.3110	.600 Longer	5.540	.290	12° x 3/8"	.065	.060/45°	92
11468T-8	11468TB-8	2.180	.3415	.600 Longer	5.540	.290	12° x 3/8"	.080	.100/45°	100
-----	11468HTB-8	2.180	.3415	.600 Longer	5.540	.290	12° x 3/8"	.080	.100/45°	100
-----	11488HTB-8	2.180	.3110	.700 Longer	5.640	.290	12° x 3/8"	.080	.100/45°	93
11486HT-8	11486HTB-8	2.180	.3415	.700 Longer	5.640	.290	12° x 3/8"	.080	.100/45°	101
-----	11942HTB-8	2.180	.3110	.800 Longer	5.740	.290	12° x 3/8"	.080	.080/52°	94
11464T-8	11464TB-8	2.200	.3415	.600 Longer	5.540	.290	10° x 3/8"	.080	.100/45°	100

* Valve P/N 11444HTBC has a 7° dish and a back cut of .075" x 33°.

LS-7 Small Block Chevy

Titanium Intake Valves

- ▶ These valves have an inserted hard tip except P/N 11958BC-8
- ▶ These valves have an O.E. style single radius keeper groove.
- ▶ "C" suffix indicates CrN seat coating (See page 53 for more details)

Use Manley valve lock P/N 13098-16 (7°) or 13153-16 (10°) depending on your spring/retainer choice.

Part No.	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width/Angle	Back Cut Width/Angle	Wgt / Grams
11958BC-8	2.205	.3135	Stock	5.130	.230	10° x 3/8"	.050	.090/45°	.090/30°	77
11958TBC-8	2.205	.3135	Stock	5.190	.290	10° x 3/8"	.050	.090/45°	.090/30°	78
11958TB-8	2.205	.3135	Stock	5.205	.290	12° x 3/8"	.065	.080/45°	.080/30°	78
11978TBC-8	2.250	.3135	Stock	5.190	.290	12° x 3/8"	.050	.090/45°	.090/30°	80
11978TB-8	2.250	.3135	Stock	5.205	.290	12° x 3/8"	.065	.080/45°	.080/30°	80

Note: Above LS-7 titanium intake valves have a 5° dish



Small Block Chevrolet

AFR 210cc, 220cc, 227cc, 235cc, 245cc Eliminator Racing Heads

Titanium Valves

- ▶ All valves have inserted hard tips
- ▶ All valves feature Chevy LS (.060" single radius) style keeper grooves

Use Manley valve lock P/N 13098-16 (7°) or 13153-16 (10°) depending on your spring/retainer choice.

Manley stem size is .3135". AFR heads have guides sized to .3147" (nominal). Manley strongly recommends that all guides be checked and correctly sized for the Manley valve stem sizes listed to achieve the proper clearances.

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11967TB-8	Exh.	1.600"	.3135"	Stock	5.090"	.290"	25° x 7/16"	.080	.100	75
11968TB-8	Int.	2.080"	.3135"	Stock	5.080"	.290"	12° x 3/8"	.070	.100	88
11970TB-8	Int.	2.100"	.3135"	Stock	5.080"	.290"	12° x 3/8"	.070	.100	90
11982TB-8	Int.	2.125"	.3135"	Stock	5.080"	.290"	12° x 3/8"	.070	.100	92



All Pro, Brodix ASCS & GB Heads

- ▶ All valves (except P/N 12218HBC-8) have inserted hard tips and Manley's Bead Loc® single radius keeper groove
- ▶ All exhaust valves are "HT" high temperature material (except P/N's 11421TB, 11427TB and 11437TB)
- ▶ All intake valves are "HT" higher hardness material
- ▶ "C" suffix indicates CrN seat coating (See page 53 for more details)



VALVES

Part No.	Type	Head Diam.	Stem Diam.	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width/Angle	Back Cut Width/Angle	Wgt / Grams
EXHAUST VALVES											
11421TB-8	ASCS	1.600	.3110	.200 Longer	5.140	.290	20° x 7/16"	.080	.100/45°	-----	68
11427TB-8	ASCS	1.600	.3415	.200 Longer	5.140	.290	20° x 7/16"	.080	.100/45°	-----	74
11427HTB-8	ASCS	1.600	.3415	.200 Longer	5.140	.290	20° x 7/16"	.080	.100/45°	-----	74
11437TB-8	ASCS	1.625	.3415	.200 Longer	5.140	.290	20° x 7/16"	.080	.100/45°	-----	74
11969HTB-8	ALL PRO	1.600	.3110	Stock	5.950	.300	20° x 3/4"	.080	.065/45°	-----	71
11971HTB-8	ALL PRO	1.625	.3110	Stock	5.950	.300	20° x 3/4"	.080	.065/45°	-----	72
11991HTB-8	ALL PRO	1.600	.3110	Stock	5.950	.300	20° x 3/4"	.080	.065/55°	-----	71
11993HTB-8	ALL PRO	1.625	.3110	Stock	5.950	.300	20° x 3/4"	.080	.065/55°	-----	72
11961HTB-8	ALL PRO	1.600	.3415	Stock	5.950	.300	20° x 3/4"	.080	.065/45°	-----	77
11973HTB-8	ALL PRO	1.625	.3415	Stock	5.950	.300	20° x 3/4"	.080	.065/45°	-----	78
12215HTBC-8	ALL PRO	1.600	.3110	Stock	6.090	.300	20° x 3/4"	.080	.065/55°	-----	75
11975HTB-8	GB 2000	1.600	.3110	Stock	6.090	.300	25° x 3/4"	.080	.065/45°	-----	73
11963HTB-8	GB 2000	1.600	.3415	Stock	6.090	.300	25° x 3/4"	.080	.065/45°	-----	80
11977HTB-8	GB 2300	1.600	.3110	Stock	6.250	.300	25° x 3/4"	.080	.065/45°	-----	78
11965HTB-8	GB 2300	1.600	.3415	Stock	6.250	.300	25° x 3/4"	.080	.065/45°	-----	85
INTAKE VALVES											
11472HTB-8	ASCS	2.080	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	81
11472HTBC-8	ASCS	2.080	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	81
11478HTB-8	ASCS	2.100	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	82
11478HTBC-8	ASCS	2.100	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	82
11402HTB-8	ASCS	2.080	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	88
11402HTBC-8	ASCS	2.080	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	88
11410HTB-8	ASCS	2.100	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	90
11410HTBC-8	ASCS	2.100	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	90
11406HTB-8	ASCS	2.125	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.100/45°	-----	83
11406HTBC-8	ASCS	2.125	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	83
11972HTB-8	ALL PRO	2.180	.3110	Stock	5.950	.300	10° x 3/8"	.080	.050/45°	.080/33°	88
11972HTBC-8	ALL PRO	2.180	.3110	Stock	5.950	.300	10° x 3/8"	.080	.050/45°	.080/33°	88
11974HTB-8	ALL PRO	2.180	.3110	Stock	5.950	.300	12° x 3/8"	.080	.050/52°	.080/35°	90
11974HTBC-8	ALL PRO	2.180	.3110	Stock	5.950	.300	12° x 3/8"	.080	.050/52°	.080/35°	90
11960HTB-8	ALL PRO	2.200	.3110	Stock	5.950	.300	10° x 3/8"	.080	.050/45°	.080/33°	90
11960HTBC-8	ALL PRO	2.200	.3110	Stock	5.950	.300	10° x 3/8"	.080	.050/45°	.080/33°	90
11976HTB-8	ALL PRO	2.200	.3110	Stock	5.950	.300	12° x 3/8"	.080	.050/52°	.080/35°	92
11976HTBC-8	ALL PRO	2.200	.3110	Stock	5.950	.300	12° x 3/8"	.080	.050/52°	.080/35°	92
11980HTBC-8	ALL PRO	2.230	.3110	Stock	5.950	.300	12° x 3/8"	.080	.050/52°	.080/35°	93
12218HBC-8	ALL PRO	2.200	.2754	Stock	6.030	.230	12° x 3/8"	.060	.055/52°	.080/35°	87
12220HTBC-8	ALL PRO	2.200	.3110	Stock	6.090	.300	12° x 3/8"	.060	.055/52°	.080/35°	94
11962HTB-8	GB 2000	2.200	.3110	Stock	6.090	.300	12° x 3/8"	.080	.050/45°	.080/33°	91
11962HTBC-8	GB 2000	2.200	.3110	Stock	6.090	.300	12° x 3/8"	.080	.050/45°	.080/33°	91
11964HTB-8	GB 2300	2.200	.3110	Stock	6.250	.300	12° x 3/8"	.080	.050/45°	.080/33°	92
11964HTBC-8	GB 2300	2.200	.3110	Stock	6.250	.300	12° x 3/8"	.080	.050/45°	.080/33°	92
11966HTB-8	GB 2300	2.200	.3110	Stock	6.250	.300	12° x 3/8"	.080	.050/52°	.080/35°	92
11966HTBC-8	GB 2300	2.200	.3110	Stock	6.250	.300	12° x 3/8"	.080	.050/52°	.080/35°	92
11988HTBC-8	GB 2300	2.230	.3110	Stock	6.250	.300	12° x 3/8"	.080	.050/52°	.080/35°	93

TITANIUM VALVES

VALVES

ASCS & WISSOTA



- ▶ All valves are CrN Full Slick Coated with inserted hard tips and Manley's Bead Loc® single radius keeper groove
- ▶ All intake valves are "HT" higher hardness material

Part No.	Type	Head Diam.	Stem Diam.	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width/Angle	Back Cut Width/Angle	Wgt / Grams
12223TBCF-8	Exh.	1.600	.3110	.100 Longer	5.060	.290	15° x 1/2"	.100	.065/45°	-----	TBA
12225TBCF-8	Exh.	1.600	.3110	.100 Longer	5.060	.290	25° x 3/4"	.100	.065/45°	-----	TBA
12227TBCF-8	Exh.	1.600	.3110	.200 Longer	5.140	.290	15° x 1/2"	.100	.065/45°	-----	TBA
12229TBCF-8	Exh.	1.600	.3110	.200 Longer	5.140	.290	25° x 3/4"	.100	.065/45°	-----	TBA
12231TBCF-8	Exh.	1.600	.3415	.200 Longer	5.160	.290	15° x 1/2"	.100	.065/45°	-----	74
12224HTBCF-8	Int.	2.055	.3110	.100 Longer	5.040	.290	10° x 3/8"	.060	.065/45°	.080/30°	TBA
12226HTBCF-8	Int.	2.080	.3110	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	81
12228HTBCF-8	Int.	2.080	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.060/45°	.080/30°	88
12230HTBCF-8	Int.	2.100	.3110	.100 Longer	5.040	.290	10° x 3/8"	.060	.060/45°	.080/30°	TBA
12232HTBCF-8	Int.	2.100	.3110	.200 Longer	5.120	.290	10° x 3/8"	.060	.060/45°	.080/30°	TBA

Big Block General Motors

- ▶ "H" suffix indicates higher hardness material
- ▶ Available with conventional square or Manley's Bead Loc® single radius keeper grooves

All part numbers without a "T" suffix do not include a hard tip. Tip protection is required. Manley wear cap P/N 42104 or 42104TM.



Square Groove Part No.	Bead Loc® Groove Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11485-8	11485B-8	Exh.	1.840	.3415	Stock	5.440	.250	30° x 5/8"	.090	.075	98
11479-8	11479B-8	Exh.	1.880	.3415	Stock	5.440	.250	30° x 5/8"	.090	.075	100
11481-8	11481B-8	Exh.	1.900	.3415	Stock	5.440	.250	30° x 5/8"	.090	.075	101
11483-8	11483B-8	Exh.	1.900	.3415	.100 Longer	5.540	.250	30° x 5/8"	.090	.075	102
11480-8	11480B-8	Int.	2.250	.3415	Stock	5.250	.250	10° x 3/8"	.065	.075	89
11490-8	11490B-8	Int.	2.250	.3415	.100 Longer	5.350	.250	10° x 3/8"	.065	.075	90
11490T-8	11490TB-8	Int.	2.250	.3415	.100 Longer	5.350	.290	10° x 3/8"	.065	.075	90
11492-8	11492B-8	Int.	2.250	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	91
11492T-8	11492TB-8	Int.	2.250	.3415	.250 Longer	5.540	.290	10° x 3/8"	.065	.075	92
11952-8	11952B-8	Int.	2.250	.3415	.350 Longer	5.600	.250	10° x 3/8"	.065	.075	93
11944T-8	11944TB-8	Int.	2.300	.3415	.100 Longer	5.350	.290	10° x 3/8"	.065	.075	94
11482-8	11482B-8	Int.	2.300	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	95
11482H-8	11482HB-8	Int.	2.300	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	95
11482T-8	11482TB-8	Int.	2.300	.3415	.250 Longer	5.540	.290	10° x 3/8"	.065	.075	96
11940-8	11940B-8	Int.	2.325	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	96
11940H-8	11940HB-8	Int.	2.325	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	96
11484-8	11484B-8	Int.	2.350	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	97
11954-8	11954B-8	Int.	2.350	.3415	.350 Longer	5.600	.250	10° x 3/8"	.065	.075	99
11954H-8	11954HB-8	Int.	2.350	.3415	.350 Longer	5.600	.250	10° x 3/8"	.065	.075	99
-----	11946HB-8*	Int.	2.350	.3415	.400 Longer	5.650	.250	10° x 3/8"	.065	.050	100

* Valve P/N 11946HB has a 50° seat and a back cut of .080" x 32°.

Brodix Big Block SR20 / Dart 20° / M&M X20 Heads

- ▶ "H" suffix indicates higher hardness material
- ▶ All valves have Manley's Bead Loc® single radius keeper groove

All P/N's without a "T" suffix do not include a hard tip. Tip protection is required.



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width/Angle	Back Cut Width/Angle	Wgt / Grams
12209TB-8	Exh.	1.800	.3415	Stock	5.930	.290	30° x 5/8"	.080	.075/55°	-----	93
12213B-8	Exh.	1.800	.3415	.100 Longer	6.010	.250	25° x 3/4"	.085	.060/50°	-----	92
12173B-8	Exh.	1.825	.3110	Stock	5.975	.250	30° x 3/8"	.075	.070/55°	.025/42°	89
12175B-8**	Exh.	1.850	.3110	Stock	5.975	.250	30° x 3/8"	.075	.070/55°	.025/42°	90
12208HTB-8*	Int.	2.400	.3415	Stock	6.040	.290	12° x 7/16"	.065	.060/50°	.060/45°	123
12210HTB-8*	Int.	2.400	.3415	Stock	6.035	.290	12° x 7/16"	.060	.060/55°	.060/45°	121
12216HB-8	Int.	2.400	.3415	.100 Longer	6.125	.250	12° x 3/8"	.050	.080/50°	.090/33°	112
12174B-8**	Int.	2.450	.3110	Stock	6.160	.250	12° x 3/8"	.070	.050/50°	.080/35°	111

* Valve P/N's 12208HTB and 12210HTB have a second back cut of .100" x 35°

** Valve P/N's 12174B-8 and 12175B-8 fit M&M X20 cylinder heads.

Note: New part numbers are **BOLD & ITALICIZED**

Dart Big Block Pro 1® & 320 / 360 Heads

- ▶ "H" suffix indicates higher hardness material
- ▶ Available with conventional square or Manley's Bead Loc® single radius keeper grooves

All part numbers without a "T" suffix do not include a hard tip. Tip protection is required. Manley wear cap P/N 42104 or 42104TM.



VALVES

Square Groove Part No.	Bead Loc® Groove Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11479-8	11479B-8	Exh.	1.880	.3415	Stock	5.440	.250	30° x 5/8"	.090	.075	100
11481-8	11481B-8	Exh.	1.900	.3415	Stock	5.440	.250	30° x 5/8"	.090	.075	101
11492-8	11492B-8	Int.	2.250	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	91
11492T-8	11492TB-8	Int.	2.250	.3415	.250 Longer	5.540	.290	10° x 3/8"	.065	.075	92
11482-8	11482B-8	Int.	2.300	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	95
11482H-8	11482HB-8	Int.	2.300	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	95
11482T-8	11482TB-8	Int.	2.300	.3415	.250 Longer	5.540	.290	10° x 3/8"	.065	.075	96

M&M Revolution

- ▶ These valves feature Manley's Bead Loc® single radius keeper grooves

These valves do not come with a hardened tip. Tip protection is required - Manley wear cap P/N 42139 or 42139TM



Part No.	Type	Head Diam.	Stem Diam.	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width/Angle	Back Cut Width/Angle	Wgt / Grams
11995B-8	Exh.	1.600	.3110	Stock	6.070	.250	25° x 3/8"	.075	.090/55°	.050/42°	72
11996B-8	Int.	2.250	.3110	Stock	6.170	.250	12° x 3/8"	.070	.050/50°	.100/35°	99

Pontiac Pro Stock & Dart Big Chief

- ▶ "H" suffix indicates higher hardness material
- ▶ Available with conventional square or Manley's Bead Loc® single radius keeper grooves

All part numbers without a "T" suffix do not include a hard tip. Tip protection is required. Manley wear cap P/N 42104 or 42104TM.



Square Groove Part No.	Bead Loc® Groove Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11925-8*	-----	Exh.	1.840	.3415	.100 Longer	6.550	.250	30° x 5/8"	.125	.075	110
11921-8	11921B-8	Exh.	1.900	.3415	Stock	6.450	.250	30° x 5/8"	.125	.075	116
11923T-8	11923TB-8	Exh.	1.900	.3415	Stock	6.490	.290	30° x 5/8"	.125	.075	117
11920-8	11920B-8	Int.	2.400	.3415	Stock	6.600	.250	12° x 3/8"	.065	.075	112
11920H-8	11920HB-8	Int.	2.400	.3415	Stock	6.600	.250	12° x 3/8"	.065	.075	112
11922T-8	11922TB-8	Int.	2.400	.3415	Stock	6.640	.290	12° x 3/8"	.065	.075	113
11924-8	11924B-8	Int.	2.450	.3415	Stock	6.600	.250	12° x 3/8"	.065	.075	114
11926H-8*	-----	Int.	2.470	.3415	.100 Longer	6.700	.250	12° x 3/8"	.065	.075	118

*Valve P/N's 11925 and 11926H have a 55° seat angle.



TFD, TFFC & Nostaglia

- ▶ "B" suffix indicates a Bead Loc® keeper groove

These valves do not come with a hardened tip. Tip protection is required - Manley wear cap P/N 42104, 42104TM or Manley LocCap System

Part No.	Type	Head Diam.	Stem Diam.	Installed Height	O / A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width/Angle	Back Cut Width/Angle	Wgt / Grams
EXHAUST VALVES											
11989-8	AJPE 4/5	2.000	.3415	.100 Longer	5.020	.250	25° x 3/8"	.085	.075/45°	-----	100
INTAKE VALVES											
11956-8	AJPE 4/5	2.375	.3415	.100 Longer	5.600	.250	25° x 5/8"	.065	.075/45°	-----	139
11994B-8	AJPE 4/5	2.400	.3415	.100 Longer	5.600	.250	25° x 5/8"	.070	.125/45°	-----	141
11998B-8	AJPE 4/5	2.400	.3415	.200 Longer	5.700	.250	25° x 5/8"	.080	.125/45°	-----	142
11992-8	AJPE 6	2.450	.3415	.100 Longer	5.600	.250	19° x 7/16"	.070	.155/45°	.075/32°	138
11992B-8	AJPE 6	2.450	.3415	.100 Longer	5.600	.250	19° x 7/16"	.070	.155/45°	.075/32°	138

Note: Manley Performance can custom build valves for any possible combination with a very short lead time. Please call your sales representative.

TITANIUM VALVES

VALVES



TAD, TAFC & Pro Mod

- ▶ "H" suffix indicates higher hardness material
- ▶ "B" suffix indicates a Bead Loc® keeper groove
- ▶ "C" suffix indicates Premium CrN seat coating (See page 53 for more details)

These valves do not come with a hardened tip. Tip protection is required - Manley wear cap P/N 42104, 42104TM or Manley LocCap System when using a .250" tip length

Part No.	Type	Head Diam.	Stem Diam.	Installed Height	O / A Length	Tip Length	Underhead Angle/Radius	Margin	Seat	Back Cut	Dish	Wgt / Grams
EXHAUST VALVES												
12111-8	BAE 4	1.950	.3415	Stock	5.845	.250	30° x 5/8"	.095	.100/45°	-----	Flat	107
12113-8	BAE 5	1.950	.3415	Stock	6.032	.250	30° x 5/8"	.085	.130/45°	-----	17°	96
12113B-8	BAE 5	1.950	.3415	Stock	6.032	.250	30° x 5/8"	.085	.130/45°	-----	17°	96
12117-8	BAE 6/8/8X	1.900	.3415	Stock	6.100	.250	30° x 5/8"	.110	.080/50°	-----	17°	96
12117B-8	BAE 6/8/8X	1.900	.3415	Stock	6.100	.250	30° x 5/8"	.110	.080/50°	-----	17°	96
12161C-8	BAE TA1	1.925	.3415	Stock	6.100	.250	30° x 5/8"	.110	.085/55°	-----	19°	100
12161BC-8	BAE TA1	1.925	.3415	Stock	6.100	.250	30° x 5/8"	.110	.085/55°	-----	19°	100
12165C-8	BAE TA1	1.925	.3415	Stock	6.100	.250	30° x 5/8"	.110	.085/55°	-----	Flat	112
12167C-8	TA1 NHRA	1.900	.3415	.100 Longer	6.200	.250	30° x 5/8"	.110	.080/55°	-----	17°	100
12167BC-8	TA1 NHRA	1.900	.3415	.100 Longer	6.200	.250	30° x 5/8"	.110	.080/55°	-----	17°	100
12163C-8	BAE TA1	1.925	.3415	.100 Longer	6.200	.250	30° x 5/8"	.110	.085/55°	-----	19°	101
12163BC-8	BAE TA1	1.925	.3415	.100 Longer	6.200	.250	30° x 5/8"	.110	.085/55°	-----	19°	101
12169BC-8	BAE TA1	1.925	.3415	.100 Longer	6.200	.250	30° x 5/8"	.110	.085/55°	-----	Flat	113

Part No.	Type	Head Diam.	Stem Diam.	Installed Height	O / A Length	Tip Length	Underhead Angle/Radius	Margin	Seat	Back Cut	Dish	Wgt / Grams
INTAKE VALVES												
12110-8	BAE 4/5	2.425	.3415	Stock	6.400	.400	12° x 3/8"	.070	.070/45°	.130/32°	Flat	122
12110B-8	BAE 4/5	2.425	.3415	Stock	6.400	.400	12° x 3/8"	.070	.070/45°	.130/32°	Flat	122
12114HC-8*	TA1 NHRA	2.400	.3415	Stock	6.400	.250	12° x 7/16"	.085	.075/55°	.060/45°	7°	127
12114HBC-8*	TA1 NHRA	2.400	.3415	Stock	6.400	.250	12° x 7/16"	.085	.075/55°	.060/45°	7°	127
12116HB-8*	BAE 6	2.400	.3415	Stock	6.400	.250	12° x 7/16"	.085	.075/50°	.060/45°	Flat	133
12118H-8*	BAE 8/8X	2.450	.3415	Stock	6.400	.250	12° x 7/16"	.085	.075/50°	.060/45°	Flat	137
12118HB-8*	BAE 8/8X	2.450	.3415	Stock	6.400	.250	12° x 7/16"	.085	.075/50°	.060/45°	Flat	137
12160H-8*	BAE TA1	2.500	.3415	Stock	6.400	.250	12° x 7/16"	.060	.060/50°	.045/45°	7°	125
12160HB-8*	BAE TA1	2.500	.3415	Stock	6.400	.250	12° x 7/16"	.060	.060/50°	.045/45°	7°	125
12164H-8*	BAE TA1	2.500	.3415	Stock	6.400	.250	12° x 7/16"	.060	.060/50°	.045/45°	Flat	131
12162H-8*	BAE TA1	2.500	.3415	.075 Longer	6.475	.250	12° x 7/16"	.060	.060/50°	.045/45°	7°	126
12162HB-8*	BAE TA1	2.500	.3415	.075 Longer	6.475	.250	12° x 7/16"	.060	.060/50°	.045/45°	7°	126
12166H-8*	BAE TA1	2.500	.3415	.075 Longer	6.475	.250	12° x 7/16"	.060	.060/50°	.045/45°	Flat	132
12166HB-8*	BAE TA1	2.500	.3415	.075 Longer	6.475	.250	12° x 7/16"	.060	.060/50°	.045/45°	Flat	132

* Valve P/N's 12114HC, 12114HBC, 12116HB, 12118H, 12118HB, 12160H, 12160HB, 12162H, 12162HB, 12164H, 12166H, and 12166HB have a second back cut of .075" x 32°



TAD, TAFC & Pro Mod

- ▶ "H" suffix indicates higher hardness material
- ▶ "B" suffix indicates a Bead Loc® keeper groove
- ▶ "C" suffix indicates Premium CrN seat coating (See page 53 for more details)

These valves do not come with a hardened tip. Tip protection is required - Manley wear cap P/N 42104, 42104TM or Manley LocCap System

Part No.	Type	Head Diam.	Stem Diam.	Installed Height	O / A Length	Tip Length	Underhead Angle/Radius	Margin	Seat	Back Cut	Dish	Wgt / Grams
EXHAUST VALVES												
12201B-8	X1/Super 6	1.950	.3415	Stock	6.200	.250	30° x 5/8"	.110	.080/55°	-----	18.66°	99
12201BC-8	X1/Super 6	1.950	.3415	Stock	6.200	.250	30° x 5/8"	.110	.080/55°	-----	18.66°	99
12203B-8	X1 Pro Mod	1.900	.3415	Stock	6.200	.250	30° x 5/8"	.110	.080/55°	-----	18.66°	95
INTAKE VALVES												
12200HBC-8*	X1/Super 6	2.480	.3415	Stock	6.400	.250	12° x 7/16"	.070	.060/55°	.050/44°	6.73°	120
12212HBC-8*	X1/Super 6	2.550	.3415	Stock	6.400	.250	12° x 7/16"	.070	.060/55°	.050/44°	6.73°	126
12202HBC-8*	X1 Pro Mod	2.400	.3415	Stock	6.400	.250	12° x 7/16"	.070	.060/55°	.050/44°	6.73°	115

* Valve P/N's 12200HBC, 12202HBC and 12212HBC have a second back cut of .060" x 32°

Briggs & Stratton

*Dimensions are per customer specifications.

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
98031-1	Exh.	1.500 Max	.2475	*	4.800 Max	*	5° x 5/16" Max.	*	*	
98030-1	Int.	2.000 Max	.2475	*	4.800 Max	*	5° x 5/16" Max.	*	*	
98032-1	Int.	2.000 Max	.2740	*	4.800 Max	*	5° x 5/16" Max.	*	*	

Note: Manley Performance can custom build valves for any possible combination with a very short lead time. Please call your sales representative.

CUSTOM TITANIUM VALVES

Manley Performance can manufacture titanium valves for just about any application imaginable. Servicing your custom requirements is our specialty; we do it every single day and typically 8 pieces at a time.

We inventory an extensive selection of blanks in varying stem sizes with the stem coating correctly positioned to properly fit the multitude of aftermarket cylinder heads available. This allows us to maintain reliable and very reasonable turnaround times throughout the year. If by chance we don't have a blank in stock to match your particular application, then don't worry. We'll simply make it!

For any stem size, groove type, machined (dished) combustion face or special head shape or seat cut, we're here to service your needs. Our customers' prints are proprietary and confidential.



Fluted Dish

Ordering Manley Custom Titanium Valves is as easy as 1-2-3!

1. Refer to the blank valve print on page 45 of this catalog or on our website under the custom valve tab and fill in your desired specifications.
2. Please contact your inside or outside Manley salesperson to review your order.
3. Fax or email your approved prints to the factory for processing, specifying your account number, a purchase order number and quantity.

Custom Hollow Stem Titanium Intake Valves

- ▶ Precision gun drilling
- ▶ Smooth surface finish
- ▶ Able to utilize a hard tool steel tip on 5/16" and larger stem diameter valves
- ▶ Extremely lightweight - 10-12% weight reduction

Titanium Valve CrN Seat Face Coating

- ▶ High hardness and lubricity prevents valve seat face wear
- ▶ Prevents "trenching" of the seat face which maintains combustion seal
- ▶ Provides greater resistance to wear typically seen when valve float or dirt is present in the engine
- ▶ Better seal between the valve seat face and the seat in the cylinder head equals more horsepower

Manley Performance offers a premium CrN seat coating option which incorporates an advanced superpolish process rendering a jewel-like surface finish



We offer certain shelf stock part numbers with CrN seat coating; look for the "C" suffix

Titanium valve "tip" coating is also available for applications not utilizing a "press in" hard tip (prevents tip wear from lash cap)

Custom titanium valves with a premium CrN slick stem coating (in lieu of moly) are also available

Contact your salesperson for ordering details

Manley Valve Locks... *simply the best!*

Conventional vs. Bead Loc® Valve Stem Grooves

The groove in a valve stem, seemingly unimportant, in reality is vital to the success of a valve's performance. Imperfectly formed grooves, inferior or mismatched locks, and improper retainers can lead to catastrophic failure.

The so called "conventional" or square groove design has enjoyed enormous success. But the success of a "conventional" groove is dependent upon precise machining. First, the surface finish of the groove must be outstanding to guarantee against failure due to residual machining marks.

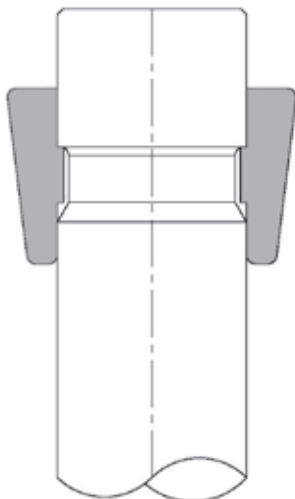
Next, the groove must have a precise .013" radius in the upper corner. Too small a radius leaves the groove subject to the dangers of a sharp fillet. Too large a radius leaves open the possibility of the groove being abraded in this area by the upper inside edge of the tang of the lock. Also, an oversized radius leaves a reduced horizontal shelf in the groove which is, or should be, the only contact point with the tang of the lock. Contact by the lock in the root of the groove is a disaster waiting to happen.

Perfectly formed "conventional" grooves with proper locks and retainers will deliver good service. However, there are sub-standard components on the market that can conspire to destroy a correctly machined groove.

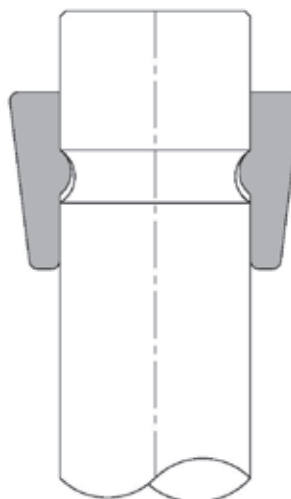
The essence of the Bead Loc® groove is its simplicity and forgiveness. The groove itself is a straightforward .110" full radius. The contact points with a Bead Loc® radius lock are approximately 2:00 and 10:00 o'clock, not at the root of the groove. This system affords minimal vertical movement, especially when valve float is present, which means reduced erosion of the valve for enhanced service life.

Manley Performance supports both the "conventional" groove system and the Bead Loc® system with the most extensive line-up of the highest quality locks in the industry.

Conventional Groove



Bead Loc® Groove



7° Stamped Valve Locks

▶ Stamped locks are recommended ONLY for mild performance engines

Part No.	Quantity	Valve Stem	Groove Type	Wgt./Pr.
13238-16	16 pr.	5/16"	Conventional	2.9 gms
13127-16	16 pr.	11/32"	Conventional	3.2 gms



7° Machined Valve Locks

▶ Highest quality steel alloy
▶ Heat treated and black oxide finished

Part No.	Quantity	Valve Stem	Groove Type	Wgt./Pr.
13086-32	32 pr.	.2345"	Bead Loc® Ford 5.0L "Coyote" (4 Valve)	1.3 gms
13088-24	24 pr.	.2345"-.2355"	Bead Loc® Ford Modular 4.6L (3 Valve)	1.3 gms
13089-16	16 pr.	.2740"-.2755"	Bead Loc® Ford Modular 4.6L/5.4L (2 Valve)	1.9 gms
13089-32	32 pr.	.2740"-.2755"	Bead Loc® Ford Modular 4.6L/5.4L (4 Valve)	1.9 gms
13087-16	16 pr.	5/16" (.3120")	Bead Loc® Ford 6.2L "Raptor" (2 Valve)	2.2 gms
13093-16	16 pr.	5/16" (.3125")	Bead Loc® Chrysler Hemi 5.7L, 6.1L and 6.4L	2.2 gms
13094-16	16 pr.	8mm (.3135")	Single Radius Chevy LS, LT1 (.050" less)	2.6 gms
13098-16	16 pr.	8mm (.3135")	Single Radius Chevy LS, LT1 (Std.)	2.6 gms
13095-16	16 pr.	8mm (.3135")	Single Radius Chevy LS, LT1 (.050" more)	2.6 gms
13090-16	16 pr.	5/16" (.3100")	Conventional	3.2 gms
13091-16	16 pr.	11/32"	Conventional	3.0 gms
13092-16	16 pr.	3/8"	Conventional	3.5 gms



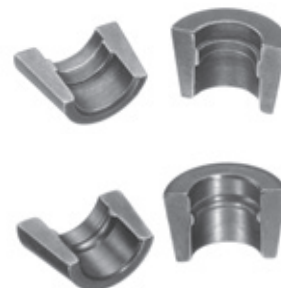
CYL HEAD COMPONENTS

Super 7° Valve Locks

Steel Material

- ▶ Heat treated and black oxide finished
- ▶ Highest quality steel alloy
- ▶ Thicker for greater strength

Part No.	Quantity	Valve Stem	Installed Height	Groove Type	Wgt. / Pr.
13050-8	8 pr.	.3110"	.050" less	Bead Loc®	8.2 gms
13051-8	8 pr.	.3110"	Standard	Bead Loc®	8.2 gms
13052-8	8 pr.	.3110"	.050" more	Bead Loc®	8.2 gms
13080-16	16 pr.	.3110"	Standard	Conventional	8.3 gms
13085-16	16 pr.	.3110"	.050" more	Conventional	8.2 gms
13060-8	8 pr.	.3415"	.050" less	Bead Loc®	7.4 gms
13061-8	8 pr.	.3415"	Standard	Bead Loc®	7.4 gms
13062-8	8 pr.	.3415"	.050" more	Bead Loc®	7.4 gms
13081-16	16 pr.	.3415"	.050" less	Conventional	9.9 gms
13083-16	16 pr.	.3415"	Standard	Conventional	7.5 gms
13084-16	16 pr.	.3415"	.050" more	Conventional	7.6 gms



Super 7° Valve Locks

Titanium Material

- ▶ Lightweight titanium material
- ▶ PVD coated locks for easier disassembly in high spring pressure/high RPM applications

Uncoated Titanium	PVD Coated Titanium	Quantity	Valve Stem	Installed Height	Groove Type	Wgt. / Pr.
13030T-8	-----	8 pr.	7mm / .2740"	.050" less	Bead Loc®	5.6 gms
13037T-8	-----	8 pr.	7mm / .2740"	Standard	Bead Loc®	4.9 gms
13038T-8	-----	8 pr.	7mm / .2740"	.050" more	Bead Loc®	4.6 gms
13050T-8	-----	8 pr.	.3110"	.050" less	Bead Loc®	4.5 gms
13051T-8	13051TC-8	8 pr.	.3110"	Standard	Bead Loc®	4.5 gms
13052T-8	-----	8 pr.	.3110"	.050" more	Bead Loc®	4.5 gms
13061T-8	-----	8 pr.	.3415"	Standard	Bead Loc®	4.1 gms
13062T-8	-----	8 pr.	.3415"	.050" more	Bead Loc®	4.1 gms
13081T-16	-----	16 pr.	.3415"	.050" less	Conventional	5.5 gms
13083T-16	-----	16 pr.	.3415"	Standard	Conventional	4.2 gms
13084T-16	-----	16 pr.	.3415"	.050" more	Conventional	4.1 gms



Super 7° "Captiv-Loc" Valve Locks

- ▶ Developed by Keith Dorton
- ▶ Encapsulates hard tip in titanium valve if it comes loose
- ▶ Use with valves with .290" to .330" tip lengths
- ▶ Available in steel and titanium material
- ▶ PVD coated locks for easier disassembly in high spring pressure/high RPM applications

Steel	Uncoated Titanium	PVD Coated Titanium	Quantity	Valve Stem	Installed Height	Groove Type	Wgt. / Pr.
-----	13039T-8	13039TC-8	8 pr.	.3110"	.050" less	Bead Loc®	5.7 gms
13033-8	13033T-8	13033TC-8	8 pr.	.3110"	Standard	Bead Loc®	9.5 / 5.6 gms
13034-8	13034T-8	13034TC-8	8 pr.	.3110"	.050" more	Bead Loc®	9.4 / 5.3 gms
-----	13040T-8	13040TC-8	8 pr.	.3415"	.050" less	Bead Loc®	5.0 gms
13035-8	13035T-8	13035TC-8	8 pr.	.3415"	Standard	Bead Loc®	8.6 / 4.9 gms
13036-8	13036T-8	13036TC-8	8 pr.	.3415"	.050" more	Bead Loc®	8.5 / 4.7 gms
13031-16	13031T-16	-----	16 pr.	.3415"	Standard	Conventional	9.2 / 5.3 gms
13032-16	13032T-16	-----	16 pr.	.3415"	.050" more	Conventional	9.3 / 5.0 gms

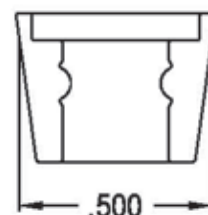


8° Pro “900” Series

Titanium Material

- ▶ 0.500" Gage Diameter ▶ Lash Cap Recess
- ▶ PVD coated locks for easier disassembly in high spring pressure/high RPM applications

PVD Coated Titanium	Quantity	Valve Stem	Installed Height	Groove Type	Wgt. / Pr.
13980TC-8	8 pr.	7mm / .2754"	Standard	Bead Loc®	2.7
13981TC-8	8 pr.	7mm / .2754"	.050" more	Bead Loc®	2.6
13992TC-8	8 pr.	5/16" / .3100"	.050" less	.048" Radius*	3.0
13993TC-8	8 pr.	5/16" / .3100"	Standard	.048" Radius*	2.4
13994TC-8	8 pr.	5/16" / .3100"	.050" more	.048" Radius*	2.3



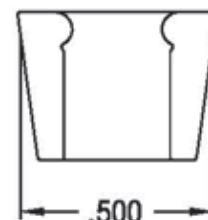
8° Pro “Top Loc” Series

Titanium Material

- ▶ 0.500" Gage Diameter
- ▶ PVD coated locks for easier disassembly in high spring pressure/high RPM applications

PVD Coated Titanium	Quantity	Valve Stem	Installed Height	Groove Type	Wgt. / Pr.
13810TC-8	8 pr.	7mm / .2754"	Top Loc	Bead Loc®	3.1
13811TC-8	8 pr.	5/16" / .3100"	Top Loc	.048" Radius*	2.6

*Not compatible with Manley Bead Loc grooves.



A better understanding of the 8° Pro “900” and “Top Loc” Series valve locks...

- ▶ Although 8°, these are **NOT** compatible with traditional Super 7° retainers. These **MUST** be paired with compatible .500" gage retainers.
- ▶ The Top Loc Series design places the locating tang at the top of the lock, resulting in all clamping **BELOW** the keeper groove of the valve.
- ▶ Both the Top Loc and the 900 Series utilize a thinner lock dimension (compared to Super 7°) which provides better conformability to the valve stem and allows for increased retainer cross-section, a plus when designing for smaller diameter valvesprings.
- ▶ The 900 Series features the same “thinner” design as the Top Loc but provides engine builders with installed height options they have enjoyed with Super 7° style locks for years.
- ▶ Lastly, make sure you order valves with the correct keeper groove specification as some locks work with traditional **Manley** Bead Loc grooves (.055" radius) while others mate with .048" radius grooves.

Note: New part numbers are **BOLD & ITALICIZED**

Precision Crafted 10° Machined Valve Locks

Steel Material

- ▶ Highest quality steel alloy
- ▶ Heat treated and black oxide finished

Part No.	Quantity	Valve Stem	Installed Height	Groove Type	Wgt. / Pr.
13171-8	8 pr.	7mm / .2740"	.050" less	Bead Loc®	7.4 gms
13170-8	8 pr.	7mm / .2740"	Standard	Bead Loc®	6.7 gms
13172-8	8 pr.	7mm / .2740"	.050" more	Bead Loc®	6.5 gms
13190-8	8 pr.	.3075"	Standard	Bead Loc®	6.7 gms
13191-8	8 pr.	.3085"	Standard	Bead Loc®	6.7 gms
13193-16	16 pr.	.3085"	Standard	Conventional	6.7 gms
13150-8	8 pr.	.3110"	.050" less	Bead Loc®	7.4 gms
13151-8	8 pr.	.3110"	Standard	Bead Loc®	7.0 gms
13152-8	8 pr.	.3110"	.050" more	Bead Loc®	6.4 gms
13096-16	16 pr.	.3110"	Standard	Conventional	6.7 gms
13196-16	16 pr.	.3110"	.050" more	Conventional	6.0 gms
13153-16	16 pr.	8mm (.3135")	Standard	Single Radius Chevy LS	6.6 gms
13160-8	8 pr.	.3415"	.050" less	Bead Loc®	6.8 gms
13161-8	8 pr.	.3415"	Standard	Bead Loc®	6.3 gms
13162-8	8 pr.	.3415"	.050" more	Bead Loc®	6.3 gms
13097-16	16 pr.	.3415"	Standard	Conventional	6.8 gms
13194-16	16 pr.	.3415"	Standard	Conventional	6.1 gms
13198-16	16 pr.	.3415"	.050" more	Conventional	5.6 gms
13192-8	8 pr.	.3715"	Standard	Bead Loc®	5.0 gms
13195-16	16 pr.	.3715"	Standard	Conventional	5.0 gms



P/N 13097 is NOT recessed to accept a wear cap

Precision Crafted 10° Machined Valve Locks

Titanium Material

- ▶ Durable and lightweight
- ▶ PVD coated locks for easier disassembly in high spring pressure/high RPM applications

Uncoated Titanium	PVD Coated Titanium	Quantity	Valve Stem	Installed Height	Groove Type	Wgt. / Pr.
13171T-8	-----	8 pr.	7mm / .2740"	.050" less	Bead Loc®	4.3 gms
13151T-8	13151TC-8	8 pr.	.3110"	Standard	Bead Loc®	3.9 gms
13152T-8	13152TC-8	8 pr.	.3110"	.050" more	Bead Loc®	3.6 gms
13096T-16	-----	16 pr.	.3110"	Standard	Conventional	3.8 gms
13196T-16	-----	16 pr.	.3110"	.050" more	Conventional	3.8 gms
13153T-16	-----	16 pr.	8mm (.3135")	Standard	Single Radius Chevy LS	3.8 gms
13161T-8	13161TC-8	8 pr.	.3415"	Standard	Bead Loc®	3.6 gms
13162T-8	13162TC-8	8 pr.	.3415"	.050" more	Bead Loc®	3.6 gms
13194T-16	13194TC-16	16 pr.	.3415"	Standard	Conventional	3.5 gms
13198T-16	-----	16 pr.	.3415"	.050" more	Conventional	3.5 gms
13195T-16	-----	16 pr.	.3715"	Standard	Conventional	3.5 gms



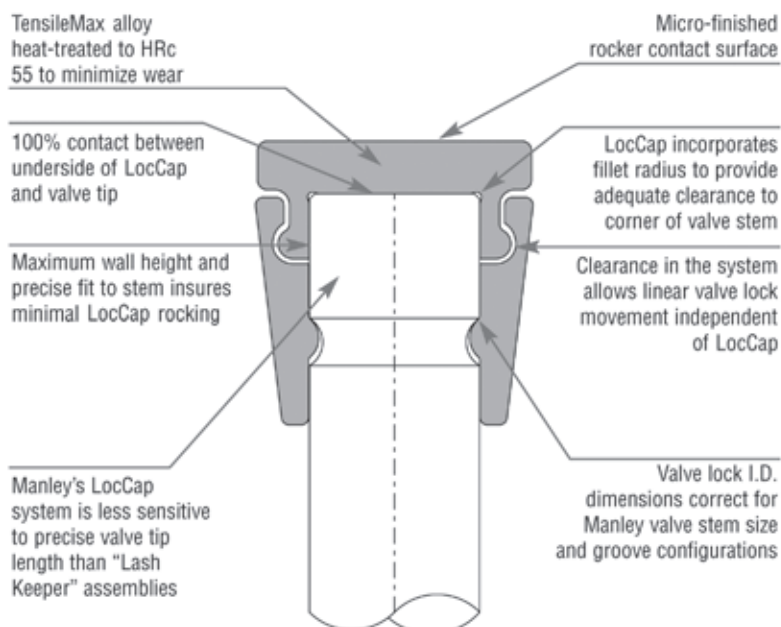
Manley Performance LocCap System

- ▶ The ULTIMATE valve lock/wear cap assembly
- ▶ Designed specifically for Fuel, Alcohol and Pro Mod Racers

First developed by our engineering team in the late 1990s for NASCAR applications, Manley's LocCap system is designed to retain the wear cap on the tip of the valve by employing an external bead on the wear cap that —when the system is assembled— resides within an internal "retention channel" located on the I.D. of the valve locks. Manley's valve train components group, headed by Manley GM Michael Tokarchik, refined the original designs combining a state-of-the-art steel alloy and ultra precise manufacturing techniques to achieve the goal of delivering a no compromises valve lock/wear cap assembly for the supercharged classes.

Manley's LocCap systems are available in true 7° as well as 10° and Super 7° assemblies for 3/8", 11/32" and 5/16" stem valves in both Manley Bead Loc® and conventional square groove configurations. In addition, Manley's LocCap system retrofits to competitors' "Lash Keeper" assemblies, maintaining original valve spring installed height, valve overall length, valve tip length (0.250") and retainer designs.

Both the LocCap valve locks and wear caps are precision machined using Manley's TensileMax UHSS (ultra high strength steel). The wear caps are thru-hardened to HRC 55 (harder than typical tool steel) to minimize wear due to aggressive rocker contact. Manley's proprietary heat treatment processes minimize distortion, thereby improving the fit of the wear cap and valve locks to the valve stem.



CYL HEAD COMPONENTS

Valve Locks

Valve Stem Size	7° Bead Loc	7° Square Groove	10° Bead Loc	10° Square Groove	Super 7° Bead Loc
5/16" (.3100")	-----	-----	13441-8	-----	-----
5/16" (.3110")	-----	-----	-----	-----	13551-8
11/32" (.3415")	13361-8	13394-8	13461-8	13494-8	13561-8
3/8" (.3715")	13392-8	13395-8	13492-8	13495-8	-----

Note: -8 indicates one set of 8 pairs.

Valve Lock Weights (per pair): 13361 (5.0 gms), 13392 (4.4 gms), 13394 (5.0 gms), 13395 (4.2 gms), 13441 (6.9 gms), 13461 (6.5 gms), 13492 (5.7 gms), 13494 (6.4 gms), 13495 (5.6 gms), 13551 (10.1 gms), 13561 (9.3 gms)

LocCaps

Valve Stem Size	Part No.	Weight
5/16" (.3100")	42441-8	4.4 gms
5/16" (.3110")	42439-8	4.3 gms
11/32" (.3415")	42404-8	4.1 gms
3/8" (.3715")	42408-8	3.4 gms

Note: LocCap thickness above valve tip is .106"

Titanium Retainers

Valve Spring Type	Valve Spring Part No.	7° +.100" Part No.	7° +.100" Tensile Max Part No.	10° Std. Part No.	10° +.100" Part No.	10° +.100" Tensile Max Part No.	10° +.170" Part No.	Super 7° Part No.
Steel Double Springs	221420, 1455, 1456, 1457, 1460, 1461	23675-16 23677-16*	23675TM-16	23684-16	23676-16 23679-16*	23676TM-16	23683-16*	23701-16*
Steel Triple Springs	221447, 1448, 1449, 1450	23673-16	-----	-----	23653-16 23753-16*	-----	-----	23708L-16*
Titanium Double Spring	-----	-----	-----	-----	23668-16*	-----	-----	-----

Note: -16 indicates 16 pieces.

* Lightweight design high strength Ti-17 titanium material

See pages 82-86 for retainer gram weights

WEAR CAPS

Inserted Tips

- ▶ Wear resistant thru-hardened tool steel alloy
- ▶ Ideal titanium valve tip protection

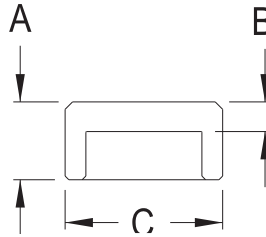


Part No.	Quantity	Material	Description	Knurl Diameter	Post Length	O.D.
42311-8	8 pcs.	Tool Steel	Fits .3085"-.3130" valves	.183"	.120"	.319"
42411-8	8 pcs.	Tool Steel	Fits .3085"-.3130" valves	.188"	.120"	.319"
42511-8	8 pcs.	Tool Steel	Fits .3085"-.3130" valves	.193"	.120"	.319"
42105-8	8 pcs.	Tool Steel	Fits 11/32" valves	.193"	.120"	.348"
42405-8	8 pcs.	Tool Steel	Fits 11/32" valves	.203"	.120"	.348"
42505-8	8 pcs.	Tool Steel	Fits 11/32" valves	.208"	.120"	.348"

CYL HEAD COMPONENTS

Wear Caps

- ▶ Thru-hardened 4140 alloy steel
- ▶ Special heat treatment to HRc 50-54
- ▶ Non rotating caps afford less valve tip erosion



Part No.	Quantity	Description	Minimum Tip	Type	A	B	C	Weight
42263-8	8 pcs.	.2165" stem valves (5.5mm)	.095"	Standard	.090"	.040"	.300"	0.6 gms
42254-8	8 pcs.	.2360" stem valves (6mm)	.275"	Non Rotating	.235"	.060"	.385"	2.5 gms
42264-8	8 pcs.	.2360" stem valves (6mm)	.095"	Standard	.090"	.040"	.320"	0.6 gms
42100-8	8 pcs.	.2740" stem valves (7mm)	.250"	Standard	.225"	.085"	.425"	2.9 gms
42118-8	8 pcs.	.2740" stem valves (7mm)	.290"	Non Rotating	.270"	.080"	.385"	2.5 gms
42110-8	8 pcs.	.2754" stem valves (7mm)	.250"	Standard	.225"	.085"	.425"	2.9 gms
42101-16	16 pcs.	.3085" stem valves (5/16")	.250"	Standard	.225"	.080"	.425"	2.6 gms
42139-8	8 pcs.	.3110" stem valves (5/16")	.250"	Standard	.210"	.080"	.425"	2.4 gms
42300-8	8 pcs.	.3110" stem valves (5/16")	.250"	Non Rotating	.210"	.080"	.425"	2.3 gms
42125-8	8 pcs.	.3130" stem valves (8mm)	.130"	Standard	.170"	.080"	.425"	2.1 gms
42104-16	16 pcs.	.3415" stem valves (11/32")	.250"	Standard	.210"	.080"	.455"	2.7 gms
42301-8	8 pcs.	.3415" stem valves (11/32")	.250"	Non Rotating	.210"	.080"	.455"	2.6 gms
42108-16	16 pcs.	.3715" stem valves (3/8")	.220"	Standard	.175"	.080"	.485"	2.7 gms

TensileMax Wear Caps

- ▶ Precision machined from TensileMax UHSS (Ultra High Strength Steel)
- ▶ Thru-hardened to HRC59-61 to minimize wear due to aggressive rocker contact
- ▶ Proprietary heat treatment processes minimize distortion



Part No.	Quantity	Description	Minimum Tip	Type	A	B	C	Weight
42100TM-8	8 pcs.	.2740" stem valves (7mm)	.250"	Standard	.225"	.085"	.425"	3.0 gms
42139TM-8	8 pcs.	.3110" stem valves (5/16")	.250"	Standard	.210"	.080"	.425"	2.6 gms
42104TM-16	16 pcs.	.3415" stem valves (11/32")	.250"	Standard	.210"	.080"	.455"	2.9 gms

Note: New part numbers are **BOLD & ITALICIZED**

VALVE STEM SEALS, GUIDES & CUTTERS

Viton Material Valve Stem Seals

- ▶ A necessity when using NexTek® triple valve springs.
- ▶ Special design allows clearance inside small I.D. springs.

Part No.	Quantity	Description	Guide O.D.	Installed Seal O.D	Use Cutter No.
24041-8	8 pcs.	.274" / 7mm valves	.431"	.566"	41410
24040-8	8 pcs.	5/16" / 8mm valves	.420"	.566"	41510
24042-8	8 pcs.	5/16" / 8mm valves	.500"	.608"	41610
24047-8	8 pcs.	5/16" / 8mm valves	.530"	.677"	41710
24043-8	8 pcs.	11/32" valves	.500"	.620"	41611
24045-8	8 pcs.	11/32" valves	.530"	.674"	41711
24044-8	8 pcs.	3/8" valves	.500"	.623"	41612
24046-8	8 pcs.	3/8" valves	.530"	.677"	41712



CYL HEAD COMPONENTS

All Teflon Valve Stem Seals

- ▶ Spring loaded wiper to remove excess oil

Part No.	Quantity	Description	Guide O.D.	Use Cutter No
24029-16	16 pcs.	5/16" valves	.500"	41610
24034-16	16 pcs.	5/16" valves	.530"	41710
24037-16	16 pcs.	11/32" valves	.500"	41611
24035-16	16 pcs.	11/32" valves	.530"	41711
24039-16	16 pcs.	3/8" valves	.500"	41612
24036-16	16 pcs.	3/8" valves	.530"	41712



Valve Guide Seal Cutters

- ▶ Carbide tipped cutters ▶ Due to the severe use to which these cutters are subjected, we are not able to warranty damaged goods

Part No.	Quantity	Pilot Size	Seal No.	Guide O.D.
41410	1	.274" / 7mm	24041	.431"
41510	1	5/16" / 8mm valves	24040	.420"
41610	1	5/16" / 8mm valves	24029 / 24042	.500"
41710	1	5/16" / 8mm valves	24034 / 24047	.530"
41611	1	11/32"	24037 / 24043	.500"
41711	1	11/32"	24035 / 24045	.530"
41612	1	3/8"	24039 / 24044	.500"
41712	1	3/8"	24036 / 24046	.530"



Valve Guide Seal Cutter Pilot

- ▶ For use with any spring seat or seal cutter

Part No.	Quantity	Description
41274	1	7mm cutter pilot
41516	1	5/16" cutter pilot
41132	1	11/32" cutter pilot
41138	1	3/8" cutter pilot



ROCKER STUDS

CYL HEAD COMPONENTS

Bronze Valve Guides

- ▶ .502" O.D.
- ▶ 1.625" length under flange
- ▶ Threaded seal area above flange

Part No.	Quantity	Description
12081-8	8 pcs.	Bronze insert guide - .274" I.D.
12084-8	8 pcs.	Bronze insert guide - .311" I.D.

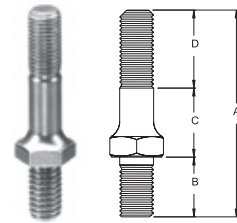


Street Master Rocker Arm Screw-In Studs

- ▶ Special maxalloy steel
- ▶ Rolled threads



Part No.	Quantity	Description	Upper Threads	Dimensions			
				A	B	C	D
42106-16	16 pcs.	SB Chevy & Ford	3/8"	2.560"	.690"	.840"	1.030"
42147-16	16 pcs.	SB Chevy & Ford with poly locks	3/8"	2.420"	.690"	.920"	.810"
42103-16	16 pcs.	SB Chevy, BB Chevy & Ford	7/16"	2.550"	.790"	.890"	.870"



Small Block Chevrolet Stamped Steel Rocker Arm Kits

- ▶ Highest quality steel
- ▶ Heat treated
- ▶ Long slots to avoid stud interference
- ▶ Kits include oil grooved rocker balls and nuts

These rockers are the non "self-aligning" type used from 1955 to 1989.

Part No.	Quantity	Description	Stud Diameter
43140	1 set for 1 head	Small Block - Long Slot 1.5 Ratio	3/8"
43150	1 set for 1 head	Small Block - Long Slot 1.6 Ratio	3/8"



ROCKER ARM KIT COMPONENTS

Note: Individual rockers only are sold as -8, and rocker balls and rocker nuts are sold as -16. Kits include only 8 pieces of each part.

Kit	Rocker	Ball	Nut
43140	43141-8	43142-16	43143-16
43150	43151-8	43142-16	43143-16

Steel Guide Plates

- ▶ Meticulously crafted stamping
- ▶ Heat treated and black oxide finished



Small Block Chevrolet Raised Guide Plate

Part No.	Quantity	Description	Slots	Pushrods
42151-8	8 pcs.	Small Block Chevy	On-Center	5/16"
42150-8	8 pcs.	Small Block Chevy	On-Center	3/8"



Small Block Chevrolet Flat Guide Plate

Part No.	Quantity	Description	Slots	Pushrods
42355-8	8 pcs.	Small Block Chevy	On-Center	5/16"
42356-8	8 pcs.	Small Block Chevy	On-Center	3/8"



Big Block Chevrolet

Part No.	Quantity	Description	Pushrods
42164-8	8 pcs.	Big Block Chevy	3/8"
42149-8	8 pcs.	Big Block Chevy	7/16"



Ford 289 - 302 - 351W Pre 1977 Heads

Part No.	Quantity	Description	Pushrods
42152-8	8 pcs.	289, 302 W, 351 W Ford	5/16"



Ford 302 Boss - 351C With Modified Heads

Part No.	Quantity	Description	Pushrods
42163-8	8 pcs.	302 Boss, 351 C Modified	5/16"
42156-8	8 pcs.	302 Boss, 351 C Modified	3/8"



To convert Ford 351C engines to adjustable rocker arms and pushrod guide plates, machine the old rocker stanchions down to a height of .550" as measured from the adjacent head bolt spot face with cutter 41860. Drill and tap the old screw hole to accept stud 42277.

Ford 429 - 460

Part No.	Quantity	Description	Pushrods
42166-8	8 pcs.	429, 460 Ford	5/16"
42160-8	8 pcs.	429, 460 Ford	3/8"



CYL HEAD COMPONENTS

Superior Head Bolts

- ▶ 180,000 psi tensile strength
- ▶ Longer than stock for use with washers
- ▶ Improved wrenchability with 1/2" hex head

Part No.	Quantity	Description
42193	1 set for 1 head	Chevrolet V-6
42171	1 set for 1 head	SB Chevy V-8
42312	1 set for 1 head	SB Chevy, Brodix - 12 and Pontiac 10093328 castings
42313	1 set for 1 head	SB Chevy, Brodix aluminum and Pontiac 10033867
42170	1 set for 1 head	BB Chevy
42180	1 set for 1 head	BB Chevy with Dart Pro 1 heads (Up to 2014)
42192	1 set for 1 head	BB Chevy with Brodix heads, Merlin II Aluminum, Dart Pro 1 (2015-Up)
42322	1 set for 1 head	BB Chevy with Chevy Bow Tie, Dart Aluminum and Merlin heads
42178	1 set for 1 head	Chrysler 383-440
42198	1 set for 1 head	Indy Cylinder Head 440-1 BB Chrysler head



Single Head Bolts

- ▶ Bolts used in above pre-packaged sets

Part No.	Quantity	Under Head Length
Bolt 1	1 pc.	4.210"
Bolt 2	1 pc.	2.100"
Bolt 3	1 pc.	1.685"
Bolt 4	1 pc.	3.125"
Bolt 5	1 pc.	3.840"
Bolt 6	1 pc.	5.200"

Hardened Head Bolt Washers

- ▶ Special heat treatment to prevent galling

Part No.	Quantity	Description
42102	34 pcs.	All Chevys, 289-351 Fords, .760" O.D., 7/16" I.D., .125" thick
42127	20 pcs.	All Chryslers, Pontiacs, 390-427 Fords, .875" O.D., 1/2" I.D., .105" thick
42136	34 pcs.	Ideal washers for aluminum heads. 7/16" I.D. but larger .935" O.D. for better fit in aftermarket aluminum heads, .125" thick



Hard To Find "AN" Washers

- ▶ .060" thick

Part No.	Quantity	I.D.	O.D.
42194	12 pcs.	5/16"	9/16"
42195	12 pcs.	3/8"	5/8"
42196	12 pcs.	7/16"	3/4"



Hex Head Intake Manifold Bolts

- ▶ P/N 42175 and 42176 have gold irridite finished bolts and hardened washers
- ▶ P/N 42177 has black oxide finished bolts and hardened washers



Part No.	Quantity	Description	Underhead Length
42176	1 set	Small Block Chevrolet	1.250"
42177	1 set	Small Block Chevrolet using thin casting hi-rise manifolds	1.000"
42175	1 set	Big Block Chevrolet	1.250"
42294-16	16 pcs.	Hardened washers for 42175 & 42176 bolts. .100" thick. Gold Iridite	
42299-16	16 pcs.	Hardened washers for 42177 bolts. .125" thick. Black oxide	

12 Point Head Intake Manifold Bolts

- ▶ Bolts and washers with gold irridite finish
- ▶ Shipped with hardened washers



Part No.	Quantity	Description	Underhead Length
42292	1 set	Small Block Chevrolet, Chrysler "A" and "B" engines	1.125"
42291	1 set	Big Block Chevrolet using thin casting hi-rise manifolds	1.125"
42294-16	16 pcs.	Hardened washers for above bolts. .100" thick. Gold Iridite	

Front Timing Cover Bolts

- ▶ Special flange for greater "wrenchability"
- ▶ Integral lock washer

Part No.	Quantity	Description
42174	1 set	Small and Big Block Chevys-black oxide
42179	1 set	Small and Big Block Chevys-gold irridite



Oil Pan Bolts

- ▶ Special flange for greater "wrenchability"
- ▶ Integral lock washer

Part No.	Quantity	Description
42173	1 set	Small Block Chevrolet - black oxide
42189	1 set	Small Block Chevrolet - gold irridite
42172	1 set	Big Block Chevrolet - black oxide
42188	1 set	Big Block Chevrolet - gold irridite



NexTek® Series Valve Springs

...Better By Design

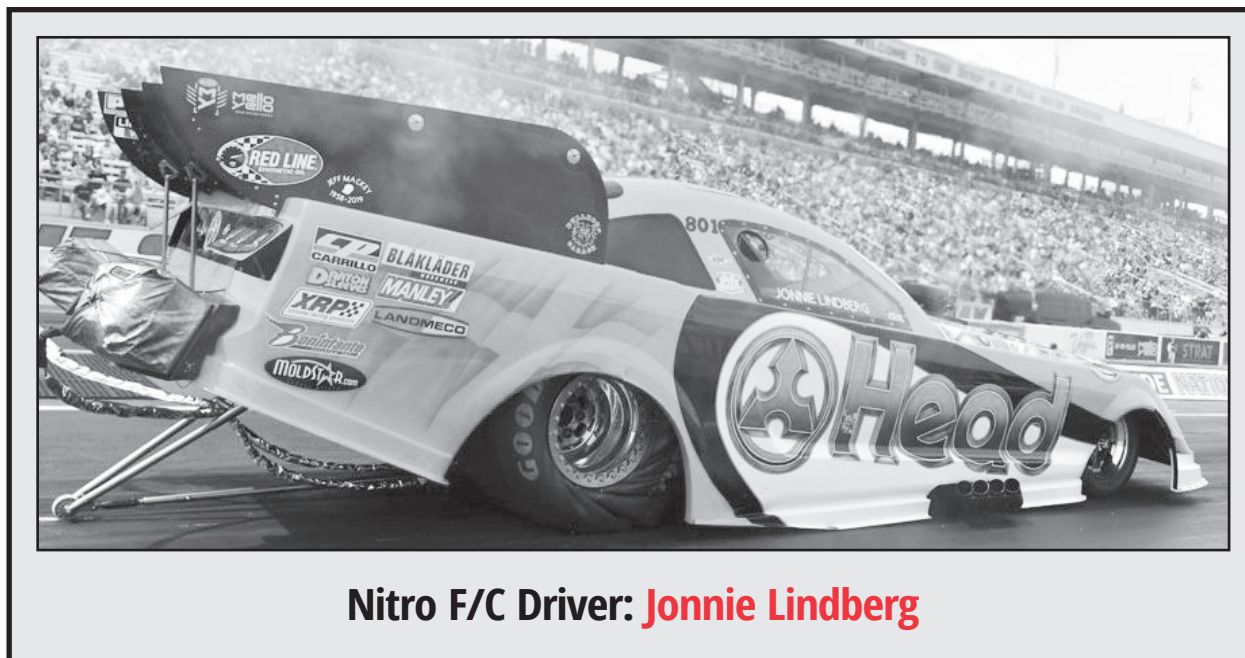
Manufactured from "super clean" Hi-Tensile Chrome Silicon steel

Tip thickness designed to eliminate overload breakage

Many part numbers available fully polished or Super Finished

Shot-peened to MIL spec for maximum fatigue life

Computer-aided modeling or designs minimizes valve bounce and valve gear separation



Nitro F/C Driver: **Jonnie Lindberg**

Tightly controlled open end flatness reduces valve stem side loading

Proprietary multi-step heat treating minimizes load loss

Optimized "Select Size Fitting" between outer and inner springs to maximize harmonic dampening and reduce heat generated during operation

Many offerings are a damperless design which eliminates unnecessary damper weight and reduces retainer wear



NexTek® Series

Lightweight Dual Drag Race Valve Springs

- ▶ Higher natural frequency and lower active mass provides improved valvetrain control and higher RPM potential
- ▶ Dual spring design reduces friction, which generates less heat and translates into greatly reduced load loss
- ▶ Extensively tested on the Spintron, dyno and race track (including blown nitro engines) and proven highly effective
- ▶ Smaller diameter, lightweight dual design allows engine to rev higher with improved valve train control
- ▶ Accepts smaller, lighter retainers which also promotes higher revs
- ▶ Ultra clean, high tensile strength chrome silicon material
- ▶ Super Finished multi-step surface enhancement significantly improves fatigue strength
- ▶ Ideal loads for multiple applications with minimal load loss



CYL HEAD COMPONENTS

Part No.	Description	Maximum Valve Lift	O.D.	I.D.	Installed / Open Pressure	Rate (lbs. / in.)	Coil Bind	Weight (grams)	Component Code
221420-16	Super Stock Competition Eliminator	.850	1.500	.710	275 @ 2.050 940 @ 1.200	780	1.130	136	A
221455-16	Competition Eliminator Alcohol & Fuel Classes	1.000	1.500	.710	450 @ 2.175 1250 @ 1.175	797	1.130	143	A
221456-16	Super Stock Competition Eliminator	.900	1.500	.710	330 @ 2.100 1050 @ 1.200	800	1.130	139	A
221457-16	Super Stock Competition Eliminator	.950	1.500	.710	405 @ 2.150 1165 @ 1.200	800	1.130	150	A
221460-16	Alcohol & Fuel Classes, Pro Mod	.950	1.522	.710	440 @ 2.250 1340 @ 1.300	948	1.255	154	A
221461-16	Alcohol & Fuel Classes, Pro Mod	1.000	1.540	.710	425 @ 2.300 1389 @ 1.300	964	1.215	154	A

See pages 78-79 for comprehensive load charts

See page 88 for available Valve Spring Shims

Component Code	Titanium Retainers	Description	TensileMax Retainers	I.D. Spring Locators	O.D.	I.D.	Thickness	Seat Cutter	
A	23675-16	7° (+.100 for 7° LocCap)	23675TM-16	7° (+.100)	42347-16	1.535	.570	.062	41856
	23677-16	7° (+.100 for 7° LocCap) TI-17 Alloy			42318-16	1.610	.570	.062	41857
	23684-16	10° Std. Installed			42344-16	1.535	.635	.035	41835
	23676-16	10° (+.100)	23676TM-16	10° (+.100)	42335-16	1.535	.635	.062	41835
	23679-16	10° (+.100) Lightweight TI-17 Alloy			42120-16	1.610	.635	.062	41855
	23683-16	10° (+.170) Lightweight TI-17 Alloy							
	23701-16	Super 7° Lightweight TI-17 Alloy							

VALVE SPRINGS

NexTek® Series Drag Race Valve Springs



- ▶ Unequaled performance
- ▶ All springs are triple except 221424, 221425 & 221454 which are double w/o damper
- ▶ Better valve train stability and component life
- ▶ Ideally suited for Sportsman Drag Racing applications

All Manley NexTek® valve springs listed below are available in Polished versions to reduce friction, improve fatigue life and minimize load loss. For example 221449P-16.

Part No.	Polished Part No.	Description	Maximum Valve Lift	O.D.	I.D.	Installed / Open Pressure	Rate (lbs. / in.)	Coil Bind	Weight (grams)	Component Code
221424-16	221424P-16	Sportsman and Bracket Classes	.880	1.640	.860	250 @ 2.000 800 @ 1.150	647	1.070	149	A
221454-16	221454P-16	Sportsman and Bracket Classes	.850	1.650	.855	290 @ 2.000 825 @ 1.150	635	1.105	155	A
221425-16	221425P-16	Sportsman and Bracket Classes	.900	1.640	.860	280 @ 2.100 795 @ 1.250	604	1.150	160	A
221447-16*	221447P-16*	Sportsman and Bracket Classes	.800	1.677	.635	350 @ 2.000 895 @ 1.270	746	1.160	195	B
221448-16*	221448P-16*	Sportsman and Bracket Classes	.900	1.677	.635	350 @ 2.100 1010 @ 1.200	733	1.142	196	B
221449-16*	221449P-16*	Sportsman and Bracket Classes	1.000	1.677	.632	350 @ 2.200 1070 @ 1.200	720	1.142	195	B
221450-16*	221450P-16*	Sportsman and Bracket Classes	1.000	1.677	.632	370 @ 2.200 1140 @ 1.200	770	1.142	193	B

* Advertised pressures are achieved after springs have been pressed solid three times
See pages 78-79 for comprehensive load charts

See page 88 for available Valve Spring Shims



CYL HEAD COMPONENTS

Ancillary Components For Springs On Page 68

Component Code	Super 7° & 10° Titanium Retainers	Super 7° Tensile Max Retainers	Description	Spring Cups & Locators	Type	Cup O.D.	Cup I.D.	Seat Cutter
A	23649-16 23640-16 23540-16	23685TM-16	10° Standard Installed	42121-16	OD	1.740	.635	41851
			10° (+.100)	42128-16*	OD	1.740	.635	41851
			10° (+.100) Lightweight	42379-16*	OD	1.740	.570	41859
			10° (+.100) Lightweight Impinged	42337-16	ID	1.570	.570	41857
			10° (+.100) Lightweight TI-17 Alloy	42437-16*	ID	1.570	.567	41857
				* 42128 & 42379 have a wall height of .250 instead of .150 * Pro Series Locators				
B	23673-16 23708L-16 23663-16 23653-16 23553-16 23553I-16 23753-16		7° (+.100)	42371-16	OD	1.740	.635	41851
			Super 7°	42372-16	OD	1.740	.570	41859
			10° Standard Installed	42364-16	ID	1.660	.570	41858
			10° (+.100)					
			10° (+.100) Lightweight					
			10° (+.100) Lightweight Impinged					

CYL HEAD COMPONENTS

Valve Spring & Titanium Retainer Kits

► Large savings over purchasing items separately

Kit No.	Quantity	Application	NexTek® Spring No.	10° Titanium Retainer No.
261424	1 kit	Super Gas, Super Comp., Big Block Bracket Engines	221424-16	23640-16
261424L	1 kit	Same, except lightweight titanium retainers	221424-16	23540-16
261454	1 kit	Super Gas, Super Comp., Big Block Bracket Engines	221454-16	23640-16
261454L	1 kit	Same, except lightweight titanium retainers	221454-16	23540-16
261425	1 kit	Super Gas, Super Comp., Big Block Bracket Engines	221425-16	23640-16
261425L	1 kit	Same, except lightweight titanium retainers	221425-16	23540-16



NexTek® Series

Drag Race, Oval Track & Endurance Valve Springs

- ▶ No degradation of spring pressure in the later stages of a race
- ▶ Specially processed premium-grade chrome silicon that is virtually free of impurities or surface irregularities
- ▶ NexTek® Series valve springs have been tested by leading engine builders and are confirmed to be the best performing valve springs on the market today

CYL HEAD COMPONENTS

Part No.	Polished Part No.	Super Finished Part No.	Description	Maximum Valve Lift	O.D.	I.D.	Installed / Open Pressure	Rate (lbs. / in.)	Coil Bind	Weight (grams)	Component Code
221432-16	-----	-----	Late Model Stock w/ Flat Tappet	.630 Double With Damper	1.530	.750	150 @ 1.900 425 @ 1.270	435	1.170	152	A
-----	221440P-16	-----	Solid Roller	.700 Double With Damper	1.570	.760	255 @ 2.000 630 @ 1.300	534	1.190	165	B
-----	221441P-16	-----	Solid Roller	.730 Double With Damper	1.570	.750	280 @ 2.030 700 @ 1.300	575	1.215	170	C
-----	221442-16	-----	Solid Roller	.750 Double Without Damper	1.560	.812	260 @ 2.000 660 @ 1.250	533	1.200	155	D
221443-16	221443P-16	-----	Solid Roller	.730 Double Without Damper	1.580	.832	235 @ 1.950 610 @ 1.250	535	1.170	150	E
221444-16	221444P-16	-----	Solid Roller	.750 Double Without Damper	1.610	.842	235 @ 2.050 645 @ 1.300	546	1.220	161	F
-----	221445P-16	-----	Solid Roller	.800 Double Without Damper	1.620	.852	280 @ 2.050 680 @ 1.250	500	1.200	168	G
-----	-----	221446SF-16	Solid Roller	.800 Double Without Damper	1.400	.700	240 @ 2.050 700 @ 1.250	575	1.150	125	H
-----	-----	221452SF-16	Solid Roller	.825 Double Without Damper	1.550	.800	250 @ 2.025 750 @ 1.200	618	1.150	144	I

See page 78-79 for comprehensive load charts

See page 88 for available Valve Spring Shims



Ancillary Components For Springs On Page 70

Component Code	Super 7° & 10° Titanium Retainers	Super 7° Lightweight Titanium Retainers	Super 7° +.050 Titanium Retainers	Super 7° TensileMax Retainers	H-13 Tool Steel Retainers	Spring Cups & Locators	Type	Cup O.D.	Cup I.D.	Cup Thickness	Seat Cutter
A	23672-16 (Super 7°)			23672TM-16	23650TS-16 (10° +.100)	42330-16	ID	1.535	.635	.062	41835
	23644-16 (10° Ti Std.)					42326-16*	ID	1.535	.570	.062	41856
	23650-16 (10° Ti +.100)					42426-16*	ID	1.535	.567	.062	41856
						42466-16*	ID	1.535	.567	.045	41856
B		23705L-16 23705LI-16	23706L-16 23706LI-16	23705TM-16 23705LTM-16	23650TS-16 (10° +.100)	42331-16	ID	1.530	.570	.062	41856
	23644-16 (10° Ti Std.)										
	23650-16 (10° Ti +.100)										
C	23672-16 (Super 7°)	23672L-16		23672TM-16	23647TS-16 (10° +.100)	42330-16	ID	1.535	.635	.062	41835
					23672TS-16 (Super 7°)	42326-16	ID	1.535	.570	.062	41856
	23647-16 (10° Ti +.100)					42426-16*	ID	1.535	.567	.062	41856
						42466-16*	ID	1.535	.567	.045	41856
D	23682-16 (Super 7°)	23682L-16		23682TM-16	23643TS-16 (10° +.100)	42343-16	ID	1.550	.570	.062	41856
					23682TS-16 (Super 7°)	42443-16*	ID	1.550	.567	.062	41856
	23643-16 (10° Ti +.100)										
E	23681-16 (Super 7°)	23681L-16 23681LI-16	23691-16		23648TS-16 (10° +.100)	42370-16	OD	1.687	.570	.062	41858
					23681TS-16 (Super 7°)	42369-16	ID	1.570	.635	.062	41856
	23648-16 (10° Ti +.100)					42373-16	ID	1.570	.570	.062	41856
						42573-16*	ID	1.570	.567	.062	41856
					42438-16*	ID	1.570	.567	.045	41856	
F	23681-16 (Super 7°)	23681L-16 23681LI-16	23691-16		23648TS-16 (10° +.100)	42365-16	OD	1.740	.570	.062	41859
					23681TS-16 (Super 7°)	42367-16	ID	1.610	.570	.062	41857
	23648-16 (10° Ti +.100)					42368-16	ID	1.610	.635	.062	41855
G	23685-16 (Super 7°)	23685L-16		23685TM-16		42342-16	ID	1.610	.570	.062	41857
H		23746L-16		23746TM-16	23746TS-16 (Super 7°) 23747TS-16 (10° +.100)	42446-16*	ID	1.410	.567	.062	41850
I		23702L-16		23702LTM-16	23702TS-16 (Super 7°)	42402-16*	ID	1.540	.567	.062	41856

SUFFIX CODE: L : Lightweight LI : Lightweight and Impinged LTM : Lightweight TensileMax TM: TensileMax TS: Tool Steel

* Pro Series Locators



VALVE SPRINGS

NexTek® Series

High Performance Valve Springs

• Chevy LS/LT1/LT4



CYL HEAD COMPONENTS

Part No.	Description	Maximum Valve Lift	O.D.	I.D.	Installed / Open Pressure	Rate (lbs. / in.)	Coil Bind	Weight (grams)	Component Code
221428-16	SBC LS-Series, LT1 & Early Model LT-1 / LT-4 / L-98 High Performance Hydraulic Roller	.600	1.076 Top 1.311 Bottom	.650 Top .885 Bottom	150 @ 1.800 355 @ 1.200	341	1.085	79	A
221438-16	SBC LS-Series, LT1, LT4 & Early Model LT-1 / LT-4 / L-98 High Performance Hydraulic Roller	.650	1.076 Top 1.311 Bottom	.650 Top .885 Bottom	150 @ 1.800 380 @ 1.150	353	1.100	73	A
221436-16	SBC LS-Series, LT1, LT4 & Early Model LT-1 / LT-4 / L-98 High Performance Hydraulic Roller	.660	1.295	.676	155 @ 1.810 405 @ 1.150	379	1.100	93	B
221435-16	SBC LS-Series, LT1, LT4 & Early Model LT-1 / LT-4 / L-98 High Performance Hydraulic Roller	.700	1.340	.726	170 @ 1.810 450 @ 1.110	394	1.050	94	C
221421-16	SBC LS-Series, LT1 High Performance Hydraulic Roller	.800	1.324	.676	165 @ 1.800 515 @ 1.000	435	.900	90	D
221422-16	SBC LS-Series, LT1 High Performance Solid Roller	.780	1.335	.622	270 @ 1.800 870 @ 1.020	780	.960	109	E

See page 80 for comprehensive load charts

See page 88 for available Valve Spring Shims

LS/LT1/LT4 Valve Spring Kits

► Large savings over purchasing items separately

Kit No.	Application / Max. Lift	NexTek® Spring No.	7° Steel Retainer No.	I.D. Valve Spring Locator No.	7° Machined Valve Lock No.	Viton Valve Stem Seals No.
26382038KS	LS / .600"	221438-16	23620-16 (Std.)	42338-16 (.505" ID)	13098-16	24042-16
26362134KS	LS / .660"	221436-16	23621-16 (+.050")	42334-16 (.505" ID)	13098-16	24042-16
26351048KS	LS / .700"	221435-16	23610-16 (+.050")	42348-16 (.505" ID)	13098-16	24042-16

Kit No.	Application / Max. Lift	NexTek® Spring No.	7° Titanium Retainer No.	I.D. Valve Spring Locator No.	7° Machined Valve Lock No.	Viton Valve Stem Seals No.
26382538KS	LS / .650"	221438-16	23625-16 (+.050")	42338-16 (.505" ID)	13098-16	24042-16
2638LT4KS	LT4 / .650"	221438-16	23601-16 (+.095")	42148-8 (Int.) 42161-8 (Exh.)	13098-16	24042-16

26361734KLS	LS / .560" - LT1 / .660"	221436-16	23617-16 (Std.)	42334-16 (.505" ID)	13094-16	24042-16
26362324KS	LS / .660"	221436-16	23623-16 (+.050")	42124-16 (.570" ID)	13098-16	24042-16
26362334KS	LS / .660"	221436-16	23623-16 (+.050")	42334-16 (.505" ID)	13098-16	24042-16
2636LT4KS	LT4 / .660"	221436-16	23602-8 (Int.) 23623-8 (Exh.)	42162-8 (Int.) 42165-8 (Exh.)	13098-16	24042-16

26351135KS	LS / .700"	221435-16	23611-16 (+.050")	42348-16 (.567" ID)	13098-16	24042-16
26351148KS	LS / .700"	221435-16	23611-16 (+.050")	42348-16 (.505" ID)	13098-16	24042-16
2635LT4KS	LT4 / .700"	221435-16	23603-16 (+.105")	42168-8 (Int.) 42169-8 (Exh.)	13098-16	24042-16

Kit No.	Application / Max. Lift	NexTek® Spring No.	10° Tool Steel Retainer No.	I.D. Valve Spring Locator No.	10° Machined Valve Lock No.	Viton Valve Stem Seals No.
26380638KS	LS / .600"	221438-16	23606TS-16 (Std.)	42338-16 (.505" ID)	13153-16	24042-16
26361624KS	LS / .660"	221436-16	23616TS-16 (+.050")	42124-16 (.570" ID)	13153-16	24042-16
26361634KS	LS / .660"	221436-16	23616TS-16 (+.050")	42334-16 (.505" ID)	13153-16	24042-16
26353335KS	LS / .700"	221435-16	23633TS-16 (+.050")	42135-16 (.567" ID)	13153-16	24042-16
26353348KS	LS / .700"	221435-16	23633TS-16 (+.050")	42348-16 (.505" ID)	13153-16	24042-16

Note: Max. lift figures above may vary depending upon the cylinder head and installed height.

Note: New part numbers are **BOLD & ITALICIZED**

Ancillary Components For Springs On Page 72

Component Code	Retainer Part No.	Description	I.D. Locator Part No.	Int./Exh.	Cup O.D.	Cup I.D.	Cup Thickness	Seat Cutter
A	23620-16	7° Steel for Manley 13098 or factory LS valve lock and factory spring seat						
	23606TS-16	10° H-13 Tool Steel Standard Height for Manley 13153 valve lock						
	23622-16	7° Titanium for Manley 13098 or factory LS valve lock and factory spring seat						
	23625-16	7° Titanium +.050 for Manley 13098 or factory LS valve lock and factory spring seat						
	23626-16	7° Titanium +.050 for early model LT-1 and standard type valve lock						
	23601-16	7° Titanium (LT4 Int/Exh) for Manley 13098 or factory LS/LT4 valve lock						
			42338-16	Int./Exh.	1.290	.505	.035	None
			42148-8	Int. (LT4)	1.290	.520	.035	None
			42336-16	Int./Exh.	1.290	.505	.062	None
			42349-16	Int./Exh.	1.290	.570	.062	41850
			42161-8	Exh. (LT4)	1.290	.520	.190	None
B	23621-16	7° Steel +.050 for Manley 13098 or factory LS valve lock						
	23621-8	7° Steel (LT4 Exh) for Manley 13098 or factory LS/LT4 valve lock						
	23628-8	7° Steel (LT4 Int) for Manley 13098 or factory LS/LT4 valve lock						
	23616TS-16	10° H-13 Tool Steel +.050 for Manley 13153 valve lock						
	23617-16	7° Titanium for Manley 13098 or factory LS valve lock						
	23623-16	7° Titanium +.050 for Manley 13098 or factory LS valve lock						
	23624-16	7° Titanium +.050 for early model LT-1 and standard type valve lock						
	23623-8	7° Titanium (LT4 Exh) for Manley 13098 or factory LS/LT4 valve lock						
	23602-8	7° Titanium (LT4 Int) for Manley 13098 or factory LS/LT4 valve lock						
				42334-16	Int./Exh.	1.270	.505	.035
			42162-8	Int. (LT4)	1.270	.520	.035	None
			42124-16	Int./Exh.	1.270	.570	.062	41850
			42138-16	Int./Exh.	1.270	.505	.062	None
			42165-8	Exh. (LT4)	1.270	.520	.150	None
C	23610-16	7° Steel +.050 for Manley 13098 or factory LS valve lock						
	23611-16	7° Titanium +.050 for Manley 13098 or factory LS valve lock						
	23615TS-16	10° H-13 Tool Steel Standard Height for early model LT-1						
	23633TS-16	10° H-13 Tool Steel +.050 for Manley 13153 valve lock						
	23603-16	7° Titanium (LT4 Int/Exh) for Manley 13098 or factory LS/LT4 valve lock						
			42348-16	Int./Exh.	1.320	.505	.035	None
			42168-8	Int. (LT4)	1.320	.520	.035	None
			42135-16	Int./Exh.	1.320	.567	.035	None
			42169-8	Exh. (LT4)	1.320	.520	.150	None
D	23618-16	7° Titanium + .050 for Manley 13098 or factory LS valve lock						
	23634TS-16	10° H-13 Tool Steel +.050" for Manley 13153 valve lock						
			42117-16	Int./Exh.	1.300	.505	.035	None
			42130-16	Int./Exh.	1.300	.567	.035	None
E	23619-16	10° Titanium + .050 for Manley 13153 valve lock						
	23619TS-16	10° H-13 Tool Steel +.050" for Manley 13153 valve lock						
			42129-16	Int./Exh.	1.310	.505	.035	None
			42131-16	Int./Exh.	1.310	.567	.035	None

Factory OEM Installed Heights

Application	Installed Hgt.
LS-1	1.750"
LS-3	1.800"
LT1	1.870"
LT4 Int.	1.810"
LT4 Exh.	1.870"

LS/LT1/LT4 7° Valve Locks for 8mm Stem Valves

Part No.	Description
13094-16	.050" less installed hgt.
13098-16	Standard installed hgt.
13095-16	.050" more installed hgt.

Manley manufactures standard and +.050" retainers as well as standard, +.050" and -.050" valve locks enabling engine builders to achieve proper installed heights for the Manley NexTek® Springs above depending upon the chosen LS, LT1 or LT4 cylinder head. If required, spring shims may also need to be utilized to achieve the proper installed height.

Note: New part numbers are **BOLD & ITALICIZED**

VALVE SPRINGS

NexTek® Series

High Performance Valve Springs

• Chrysler Hemi



CYL HEAD COMPONENTS

Part No.	Description	Maximum Valve Lift	O.D.	I.D.	Installed / Open Pressure	Rate (lbs. / in.)	Coil Bind	Weight (grams)	Component Code
221431-16*	Chrysler Hemi 5.7L, 6.1L High Performance Hydraulic Roller	.650	1.076 Top 1.311 Bottom	.650 Top .885 Bottom	145 @ 1.811 370 @ 1.161	353	1.100	72	A
Super Finished Single Conical Ovate Wire									
221439-16	Chrysler Hemi 6.4L High Performance Hydraulic Roller	.650	1.076 Top 1.311 Bottom	.650 Top .885 Bottom	145 @ 1.811 380 @ 1.150	353	1.100	72	A
Super Finished Single Conical Ovate Wire									

* These Chrysler Hemi springs come with shims which are ONLY needed for 6.1L applications on the intake side in order to achieve the correct installed height. Each set also includes a set of piloting rings that install over the factory "Top Hat" integral valve seal to properly locate the ID of the spring on early 5.7L (thru 2008) and 6.1L applications. P/N 221431X-16 which does not include any shims or piloting rings is also available for the Hemi Drag Pak engines.

NexTek® Series

High Performance Valve Springs

• Ford Modular/Coyote



Part No.	Description	Maximum Valve Lift	O.D.	I.D.	Installed / Open Pressure	Rate (lbs. / in.)	Coil Bind	Weight (grams)	Component Code
221427-16	Ford 4.6L, 5.4L SOHC 2 Valves per Cylinder Stock Diameter Hydraulic Roller	.580	1.020 Top 1.125 Bottom	.642 Top .748 Bottom	95 @ 1.680 240 @ 1.130	264	1.080	52	B
Single Conical Ovate Wire									
221437-16	Ford 4.6L, 5.4L SOHC 2 Valves per Cylinder Stock Diameter Ideal for Boosted Applications	.580	1.030 Top 1.175 Bottom	.642 Top .787 Bottom	125 @ 1.680 265 @ 1.130	255	1.080	56	B
Single Conical Ovate Wire									
221433-24	Ford 4.6L, 5.4L 3 Valve 3 Valves per Cylinder High Performance Hydraulic Roller	.580	1.013 Top 1.101 Bottom	.650 Top .738 Bottom	110 @ 1.670 260 @ 1.090	258	1.020	49	C
Single Conical Ovate Wire									
221434-32	Ford 4.6L, 5.4L DOHC 4 Valves per Cylinder Stock Diameter High Performance Hydraulic Roller	.525	1.016 Top 1.126 Bottom	.640 Top .750 Bottom	95 @ 1.420 270 @ .895	330	.860	45	D
Single Conical Ovate Wire									
221418-32	Ford 5.0L DOHC Coyote Gen I/II 4 Valves per Cylinder Stock Diameter Hydraulic Roller	.570	.841 Top 1.014 Bottom	.533 Top .706 Bottom	90 @ 1.570 225 @ 1.000	236	.904	36	E
Super Finished Single Conical Ovate Wire									
221419-32	Ford 5.0L DOHC Coyote Gen I/II 4 Valves per Cylinder High Performance Hydraulic Roller Ideal for Boosted Applications	.600	1.013 Top 1.101 Bottom	.650 Top .738 Bottom	120 @ 1.640 275 @ 1.040	258	.970	49	F
Single Conical Ovate Wire									

See page 80 for comprehensive load charts

See page 88 for available Valve Spring Shims

Ancillary Components For Springs On Page 74

Component Code	Retainer Part No.	Description	Spring Cup Part No.	Type	Cup O.D.	Cup I.D.	Cup Thickness	Seat Cutter
A	23612-16	7° Steel for Manley 13093 or factory valve lock						
	23613-16	7° Titanium for Manley 13093 or factory valve lock						
Must use ID locator P/N 42324-16 for the 2009 and up Hemi 5.7L and all 6.4L			42324-16	ID	1.300	.812	.205	None
B	23627-16	7° Titanium for Manley 13089 or factory valve lock						
	23667-16	7° Titanium + .060 for Manley 13089 or factory valve lock						
C	23614-24	7° Titanium for Manley 13088 or factory valve lock						
D	23627-32	7° Titanium for Manley 13089 or factory valve lock						
	23667-32	7° Titanium + .060 for Manley 13089 or factory valve lock						
E	23604-32	7° Steel for Manley 13086 or factory valve lock and factory spring seat						
F	23605-32	7° Titanium +.070 for Manley 13086 or factory valve lock						
	23605TS-32	7° H-13 Tool Steel +.070 for Manley 13086 or factory valve lock						
			42153-32	ID	1.080	.440	.045	None

CYL HEAD COMPONENTS



Addiction Motorsports

VALVE SPRINGS

Street Master Valve Springs

- ▶ Chrome silicon material
- ▶ Designed for low stress and long service life



CYL HEAD COMPONENTS

Part No.	Type	Application	Size OD/ID	Pressures	Rate (lbs./in.)	Weight (grams)	7° Steel Retainer	10° Steel Retainer	Titanium Retainer
22409-16	Outer w/ damper	SB Chevy Street Use	1.250" .865"	110 @ 1.700" 285 @ 1.210" Coil Bind: 1.180"	357	87	23651-16 (Std.) 23652-16 (+.050") 23652TS-16 (+.050" H-13)		23642-16 (7° x 11/32" +.050")
22408-16	Double w/ damper	SB Chevy, LS-1 Chevy, Ford, Chrysler	1.437" .720"	115 @ 1.800" 330 @ 1.250" 350 @ 1.200" Coil Bind: 1.100"	392	117	23645-16 (11/32") 23646-16 (11/32" +.100") 23666-16 (3/8")	23635-16 (+.060") 23635TS-16 (+.060" H-13)	23630-16 (10 Degree) 23638-16 (7° x 5/16" LS-1) 23639-16 (7° x 5/16" +.050" LS-1)
22407-16	Double w/ damper	SB & BB Chevy	1.437" .720"	135 @ 1.800" 365 @ 1.250" 385 @ 1.200" Coil Bind: 1.085"	418	121	23645-16 (11/32") 23646-16 (11/32" +.100") 23666-16 (3/8")	23635-16 (+.060") 23635TS-16 (+.060" H-13)	23630-16 (10 Degree)
22406-16	Outer w/ damper	BB Chevy, Chrysler	1.550" 1.080"	125 @ 1.875" 355 @ 1.375" Coil Bind: 1.190"	460	121	23645-16 (11/32") 23646-16 (11/32" +.100") 23666-16 (3/8")	23635-16 (+.060") 23635TS-16 (+.060" H-13)	23630-16 (10 Degree)

See page 77 for comprehensive load charts

See page 88 for available Valve Spring Shims

Professional Valve Springs

- ▶ Chrome silicon material for oval track and drag racing



Part No.	Type	Application	Size OD/ID	Pressures	Rate (lbs. / in)	Weight Grams	Super 7° Retainer	7°x11/32" Retainer	10° Steel Retainer	10° Titanium Retainer
22410-16	Outer w/ damper	Oval track Stock Class Chrome Silicon	1.260" .876"	130 @ 1.750" 335 @ 1.200" 1.095" Coil Bind	370	82		23651-16 (Std. Steel) 23652-16 (+.050" Steel) 23652TS-16 (+.050" H-13) 23642-16 (+.050" Titanium)		
22411-16	Outer w/ damper	SB Chevy Stock Diameter Chrome Silicon	1.255" .870"	115 @ 1.750" 390 @ 1.175" 1.100" Coil Bind	470	81		23651-16 (Std. Steel) 23652-16 (+.050" Steel) 23652TS-16 (+.050" H-13) 23642-16 (+.050" Titanium)		
22441-16	Double w/ damper	Oval Track Chrome Silicon	1.550" .740"	170 @ 1.900" 500 @ 1.200" 1.150" Coil Bind	471	152	23670-16 (Titanium) 23670TM-16 (Tensile Max) 23670TS-16 (H-13)	23659-16 (+.100") 23660TS-16 (+.100" H-13)	23658-16 (Std.) 23660-16 (+.100")	
22429-16	Double w/ damper	Oval Track Chrome Silicon	1.550" .740"	150 @ 1.880" 425 @ 1.280" 1.180" Coil Bind	458	109	23672-16 (Titanium) 23672TM-16 (Tensile Max) 23672TS-16 (H-13)	23656-16 (+.100") 23647TS-16 (+.100" H-13)	23657-16 (Std.) 23661-16 (+.100")	
22430-16	Double w/ damper	Oval Track Chrome Silicon	1.550" .735"	210 @ 1.900" 525 @ 1.250" 1.200" Coil Bind	484	156	23672-16 (Titanium) 23672TM-16 (Tensile Max) 23672TS-16 (H-13)	23656-16 (+.100") 23647TS-16 (+.100" H-13)	23657-16 (Std.) 23661-16 (+.100")	
22431-16	Double w/ damper	Oval / Drag Chrome Silicon	1.550" .725"	225 @ 1.950" 580 @ 1.250" 1.190" Coil Bind	507	159	23670-16 (Titanium) 23670TM-16 (Tensile Max) 23670TS-16 (H-13)	23659-16 (+.100") 23660TS-16 (+.100" H-13)	23658-16 (Std.) 23660-16 (+.100")	
22440-16	Double w/ damper	Drag Race Chrome Silicon	1.550" .720"	250 @ 1.850" 680 @ 1.150" 1.090" Coil Bind	614	147	23670-16 (Titanium) 23670TM-16 (Tensile Max) 23670TS-16 (H-13)	23659-16 (+.100") 23660TS-16 (+.100" H-13)	23658-16 (Std.) 23660-16 (+.100")	

See page 77 for comprehensive load charts

See page 88 for available Valve Spring Shims

Street Master / Professional Series

Street/Strip, Oval Track & Drag Race Valve Springs

Load Chart

P/N Type of Spring	22406 Single	22407 Double	22408 Double	22409 Single	22410 Single	22411 Single	22429 Double	22430 Double	22431 Double	22440 Double	22441 Double
Installed Ht. Inst. Pressure	1.875 125	1.800 135	1.800 115	1.700 110	1.750 130	1.750 115	1.880 150	1.900 210	1.950 225	1.850 250	1.900 170
Open Ht. Open Pressure	1.375 355	1.250 350	1.200 350	1.210 285	1.200 335	1.175 390	1.280 425	1.250 525	1.250 580	1.150 680	1.200 500
Spring Rate	460	418	392	357	370	470	458	484	507	614	471
O.D. of Outer	1.550	1.437	1.437	1.250	1.260	1.255	1.550	1.550	1.550	1.550	1.550
I.D. of Outer	1.080	1.060	1.060	0.865	0.876	0.870	1.130	1.130	1.115	1.115	1.115
I.D. of Inner	N/A	0.720	0.720	N/A	N/A	N/A	0.740	0.735	0.725	0.720	0.740
Coil Bind Ht.	1.190	1.085	1.100	1.180	1.095	1.100	1.180	1.200	1.190	1.090	1.100
Damper	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
S P R I N G H E I G H T	Inches								124		
	2.150							113	149		76
	2.100							72	137	127	99
	2.050	45					95	162	200	158	123
	2.000	68	51	37			118	186	225	189	146
	1.950	91	72	56		56	21	141	210	250	219
	1.900	114	93	76	39	75	45	164	234	276	250
	1.850	137	114	95	56	93	68	187	258	301	281
	1.800	160	135	115	74	112	92	210	283	326	311
	1.750	183	156	135	92	130	115	233	307	352	342
	1.700	206	177	154	110	149	139	256	331	377	373
	1.650	229	198	174	128	167	162	279	355	402	404
	1.600	252	219	193	146	186	186	301	379	428	434
	1.550	275	240	213	164	204	209	324	404	453	465
	1.500	298	260	233	181	223	233	347	428	479	496
	1.450	321	281	252	199	241	256	370	452	504	526
	1.400	344	302	272	217	260	280	393	476	529	557
1.350	367	323	291	235	278	303	416	500	555	588	
1.300	390	344	311	253	297	327	439	525	580	618	
1.250	413	365	331	271	315	350	462			649	
1.200		386	350	289	335	374				680	
1.150		407	370		352	397					
	LOAD (LBS.)										

CYL HEAD COMPONENTS

VALVE SPRINGS

NexTek® Series

Drag Race, Oval Track & Endurance Valve Springs

Load Chart

CYL HEAD COMPONENTS

P/N Type of Spring Color Code	221420 Double Super Finished	221424/P Double Blue/ Polished	221425/P Double Green/ Polished	221432 Double Silver	221440P Double Polished	221441P Double Polished	221442 Double Polished	221443/P Double White/ Polished	221444/P Double Yellow/ Polished	221445P Double Polished	221446SF Double Super Finished
Installed Ht. Inst. Pressure	2.050 275	2.000 250	2.100 280	1.900 150	2.000 255	2.030 280	2.000 260	1.950 235	2.050 235	2.050 280	2.050 240
Open Ht. Open Pressure	1.200 940	1.150 800	1.250 795	1.270 425	1.300 630	1.300 700	1.250 660	1.250 610	1.300 645	1.250 680	1.250 700
Spring Rate	780	647	604	435	534	575	533	535	546	500	575
O.D. of Outer	1.500	1.640	1.640	1.530	1.570	1.570	1.560	1.580	1.610	1.620	1.400
I.D. of Outer	1.050	1.185	1.185	1.141	1.137	1.121	1.127	1.147	1.161	1.187	0.990
I.D. of Inner	0.710	0.860	0.860	0.750	0.760	0.750	0.812	0.832	0.842	0.852	0.700
Coil Bind Ht.	1.130	1.070	1.150	1.170	1.190	1.215	1.200	1.170	1.220	1.200	1.150
Damper	No	No	No	Yes	Yes	Yes	No	No	No	No	No
Inches											
2.350	41										
2.300	80		159								
S P	2.250	119		189					126	180	125
	2.200	158	121	220		148	182	153	153	205	154
R I	2.150	197	153	250		175	211	180	128	180	183
	2.100	236	185	280	63	202	240	207	155	208	211
N G	2.050	275	218	310	85	228	268	233	182	235	280
	2.000	314	250	340	107	255	297	260	208	262	269
H E	1.950	353	282	371	128	282	326	287	235	290	298
	1.900	392	315	401	150	308	355	313	262	317	326
I G	1.850	431	347	431	172	335	383	340	289	344	355
	1.800	470	379	461	194	362	412	367	315	372	384
H T	1.750	509	412	491	215	389	441	393	342	399	413
	1.700	548	444	522	237	415	470	420	369	426	441
G H	1.650	587	476	552	259	442	498	447	396	453	470
	1.600	626	509	582	281	469	527	473	422	481	499
T	1.550	665	541	612	302	495	556	500	449	508	528
	1.500	704	574	642	324	522	585	527	476	535	556
	1.450	743	606	673	346	549	613	553	503	563	585
	1.400	782	638	703	368	575	642	580	529	590	614
	1.350	821	671	733	389	602	671	606	556	617	643
	1.300	860	703	763	411	630	700	633	583	645	671
	1.250	899	735	795	433	656	728	660	610	672	700
	1.200	940	768	824	455			636			729
	1.150	977	800								
	1.100		832								
	LOAD (LBS.)										

Note: **BOLD** loads correspond to installed and open pressures.

NexTek® Series

Drag Race, Oval Track & Endurance Valve Springs

Load Chart

P/N Type of Spring Color Code	221447/P Triple Pink/ Polished	221448/P Triple Orange/ Polished	221449/P Triple Red/ Polished	221450/P Triple Purple/ Polished	221452SF Double Super Finished	221454/P Double Orange/ Polished	221455 Double Super Finished	221456 Double Super Finished	221457 Double Super Finished	221460 Double Super Finished	221461 Double Super Finished	
Installed Ht. Inst. Pressure	2.000 350	2.100 350	2.200 350	2.200 370	2.025 250	2.000 290	2.175 450	2.100 330	2.150 405	2.250 440	2.300 425	
Open Ht. Open Pressure	1.270 895	1.200 1010	1.200 1070	1.200 1140	1.200 750	1.150 825	1.175 1250	1.200 1050	1.200 1165	1.300 1340	1.300 1389	
Spring Rate	746	733	720	770	618	635	797	800	800	948	964	
O.D. of Outer	1.677	1.677	1.677	1.677	1.550	1.650	1.500	1.500	1.500	1.522	1.540	
I.D. of Outer	1.203	1.203	1.203	1.203	1.130	1.185	1.050	1.050	1.050	1.050	1.050	
I.D. of Middle	0.874	0.874	0.874	0.874	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
I.D. of Inner	0.635	0.635	0.632	0.632	0.800	0.860	0.710	0.710	0.710	0.710	0.710	
Coil Bind Ht.	1.160	1.142	1.142	1.142	1.150	1.105	1.130	1.130	1.130	1.255	1.215	
Damper	No	No	No	No	No	No	No	No	No	No	No	
S P R I N G H E I G H T	Inches											
	2.500										233	
	2.450									250	281	
	2.400			206	216					298	329	
	2.350			242	255			311	245	345	377	
	2.300		203	278	293			350	170	285	393	
	2.250		240	314	332	111	390	210	325	440	473	
	2.200	201	277	350	370	142	161	430	250	365	487	521
	2.150	238	313	386	409	173	193	470	290	405	535	570
	2.100	275	350	422	447	204	225	510	330	445	582	618
	2.050	313	387	458	486	235	256	550	370	485	630	666
	2.000	350	423	494	524	266	290	590	410	525	677	714
	1.950	387	460	530	563	297	320	629	450	565	724	762
	1.900	425	497	566	601	328	352	669	490	605	772	811
	1.850	462	533	602	640	359	383	709	530	645	819	859
	1.800	499	570	638	678	390	415	749	570	685	867	907
	1.750	537	607	674	717	420	447	789	610	725	914	955
	1.700	574	643	710	755	451	479	829	650	765	961	1003
1.650	611	680	746	794	482	510	869	690	805	1009	1052	
1.600	648	717	782	832	513	542	908	730	845	1056	1100	
1.550	686	753	818	871	544	574	948	770	885	1104	1148	
1.500	723	790	854	909	575	606	988	810	925	1151	1196	
1.450	760	826	890	948	606	637	1028	850	965	1198	1244	
1.400	798	863	926	986	637	669	1068	890	1005	1246	1293	
1.350	835	900	962	1025	668	701	1108	930	1045	1293	1341	
1.300	872	936	998	1063	699	733	1147	970	1085	1340	1389	
1.250	910	973	1034	1102	719	764	1187	1010	1125		1437	
1.200	947	1010	1070	1140	750	796	1227	1050	1165			
1.150						828	1267	1090	1205			
	LOAD (LBS.)											

Note: **BOLD** loads correspond to installed and open pressures.

CYL HEAD COMPONENTS

VALVE SPRINGS

NexTek® Series

High Performance Valve Springs

- Chevy LS/LT1
- Late Model Chrysler Hemi
- Ford Modular
- Ford Coyote

CYL HEAD COMPONENTS

Load Chart

P/N Type of Spring Color Code	221418 Conical Super Finished	221419 Conical Plain	221421 Double Polished Finished	221422 Double Super	221427 Conical Gold	221428 Conical Salmon	221431 221439 Conical Super Finished	221433 Conical Super Finished	221434 Conical Plain	221435 Double Polished	221436 Double Polished	221437 Conical Plain	221438 Conical Super Finished
Installed Ht. Inst. Pressure	1.570 90	1.640 120	1.800 165	1.800 270	1.680 95	1.800 150	1.811 145	1.670 110	1.420 95	1.810 170	1.810 155	1.680 125	1.800 150
Open Ht. Open Pressure	1.000 225	1.040 275	1.000 515	1.020 870	1.130 240	1.200 355	1.161 370	1.090 260	0.895 270	1.110 450	1.150 405	1.130 265	1.150 375
Spring Rate	236	258	435	780	264	341	353	258	330	394	379	255	353
O.D. of Outer I.D. of Outer I.D. of Inner	1.014 .533 N/A	1.101 .650 N/A	1.324 0.920 0.676	1.335 0.907 0.622	1.125 0.642 N/A	1.311 0.650 N/A	1.311 0.650 N/A	1.101 0.650 N/A	1.126 0.640 N/A	1.340 0.994 0.726	1.295 0.949 0.676	1.175 0.642 N/A	1.311 0.650 N/A
Coil Bind Ht.	.904	.970	0.900	0.960	1.080	1.085	1.100	1.020	0.860	1.050	1.100	1.080	1.100
Damper	No	No	No	No	No	No	No	No	No	No	No	No	No
Inches													
S 2.000						82	79			95	83		79
P 1.950						99	97			115	102		97
R 1.900					37	116	115			135	121	69	115
I 1.850		63	143	231	50	133	132	63		154	140	82	132
J 1.800		76	165	270	64	150	150	76		174	159	95	150
N 1.750	48	89	187	309	77	167	168	89		194	178	107	168
G 1.700	59	102	209	348	90	184	185	102		213	197	120	185
H 1.650	71	115	230	387	103	201	203	115		233	216	133	203
E 1.600	83	128	252	426	116	218	221	128	36	253	235	146	221
I 1.550	95	141	274	465	130	235	238	141	53	273	254	158	238
G 1.500	107	154	296	504	143	252	256	154	69	292	273	171	256
H 1.450	118	167	317	543	156	269	274	167	86	312	292	184	274
T 1.400	130	180	339	582	169	286	291	180	102	332	311	197	291
I 1.350	142	192	361	621	182	303	309	192	119	351	330	209	309
G 1.300	154	205	383	660	196	321	327	205	135	371	349	222	327
H 1.250	166	218	404	699	209	338	344	218	152	391	367	235	344
T 1.200	177	231	426	738	222	355	362	231	168	410	386	248	362
I 1.150	189	244	448	777	235	372	379	244	185	430	405	260	379
G 1.100	201	257	470	816	248	389		257	201	450		273	
H 1.050	213	270	491	855				270	218				
T 1.000	225	283	513	894					234				
I 0.950	236		535						251				
G 0.900									267				
	LOAD (LBS.)												

Manley Retainerssimply the best!

- ▶ Engineered using finite element analysis
 - ▶ Specially heat treated titanium material
- ▶ Exclusive "impingement" finishing process
 - ▶ TensileMax steel and H-13 tool steel alloys
- ▶ CNC machined to exacting tolerances and jewel-like surface finishes



Lightweight Titanium



TensileMax Steel



7° & 10° Titanium

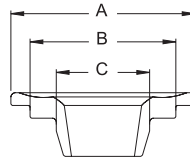


H-13 Tool Steel

SPRING RETAINERS

7° Titanium Retainers

- ▶ Special 6AL-4V titanium for maximum strength
- ▶ CAD designed for ultimate reduction in mass without sacrificing strength
- ▶ Must use 7° valve locks



CYL HEAD COMPONENTS

Part No.	Quantity	Spring	Height	Spring O.D.	Dimensions			Keeper Degree	Valve Stem	Wgt/ Grams
					A	B	C			
23614-24	24 pcs.	Manley 221433	Std.	1.013"	.875"	.640"	.440"	7° x 6mm	5	
23605-32	32 pcs.	Manley 221419	+ .070"	1.013"	.875"	.640"	.440"	7° x 6mm	5	
23627-16	16 pcs.	Manley 221427/221437	Std.	1.020"/1.030"	.875"	.627"	.465"	7° x 7mm	5	
23667-16	16 pcs.	Manley 221427/221437	+ .060"	1.020"/1.030"	.875"	.627"	.465"	7° x 7mm	5	
23629-16	16 pcs.	PSI 1511ML	Std.	1.056"	.915"	.620"	.540"	7° x 5/16"	5	
23613-16	16 pcs.	Manley 221431, 221439	Std.	1.076"	.935"	.640"	.570"	7° x 5/16"	6	
23622-16	16 pcs.	Manley 221428/221438	Std.	1.076"	.935"	.640"	.570"	7° x 8mm	5	
23625-16	16 pcs.	Manley 221428/221438	+ .050"	1.076"	.935"	.640"	.570"	7° x 8mm	5	
23626-16	16 pcs.	Manley 221428/221438	+ .050"	1.076"	.935"	.640"	.575"	7° x 11/32"	6	
23601-16	16 pcs.	Manley 221428/221438	+ .095"	1.076"	.935"	.640"	.570"	7° x 8mm	6	
23642-16	16 pcs.	Manley 22409, 22410, 22411	+ .050"	1.250"	1.150"	.865"	.620"	7° x 11/32"	9	
23617-16	16 pcs.	Manley 221436	Std.	1.295"	1.155"	.950"	.675"	7° x 8mm	10	
23623-16	16 pcs.	Manley 221436	+ .050"	1.295"	1.155"	.950"	.675"	7° x 8mm	10	
23624-16	16 pcs.	Manley 221436	+ .050"	1.295"	1.155"	.950"	.675"	7° x 11/32"	10	
23623-8	8 pcs.	Manley 221436 (LT4 Exh)	+ .050"	1.295"	1.155"	.950"	.675"	7° x 8mm	10	
23602-8	8 pcs.	Manley 221436 (LT4 Int)	+ .105"	1.295"	1.155"	.950"	.675"	7° x 8mm	10	
23618-16	16 pcs.	Manley 221421	+ .050"	1.324"	1.200"	.910"	.666"	7° x 8mm	11	
23611-16	16 pcs.	Manley 221435	+ .050"	1.340"	1.200"	.985"	.715"	7° x 8mm	11	
23603-16	16 pcs.	Manley 221435	+ .105"	1.340"	1.200"	.985"	.715"	7° x 8mm	11	
23638-16	16 pcs.	Manley 22408	Std.	1.437"	1.340"	1.050"	.700"	7° x 8mm	14	
23639-16	16 pcs.	Manley 22408	+ .050"	1.437"	1.340"	1.050"	.700"	7° x 8mm	14	
23675-16	16 pcs.	Manley 221420, 1455, 1456, 1457, 1460, 1461	+ .100"	1.500"	1.325"	1.035"	.705"	7° x 11/32", 3/8"	14	
23677-16*	16 pcs.	Manley 221420, 1455, 1456, 1457, 1460, 1461	+ .100"	1.500"	1.325"	1.035"	.705"	7° x 11/32", 3/8"	15	
23673-16	16 pcs.	Manley 221447, 221448, 221449, 221450	+ .100"	1.660"	1.500"	1.185"	.860"	7° x 11/32", 3/8"	20	

* Made from our high strength TI-17 Titanium Material

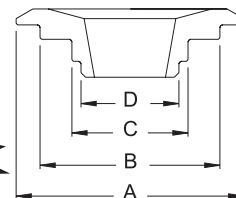
P/N's 23601, 23602, 23603, 23611, 23617, 23618, 23622, 23623, 23625, 23638, and 23639 must use Manley P/N 13098 or factory Chevrolet LS valve locks

P/N's 23624, 23626, and 23642 are for the following engine models: LT-1 / LT-4 / L-98 and must use Manley P/N 13091

Note: New part numbers are **BOLD & ITALICIZED**

Super 7° Titanium Retainers

- ▶ Super 7° angle is actually 8°
- ▶ Heat treated titanium material for maximum strength
- ▶ Available with or without our exclusive impingement surface enhancement process
- ▶ Impingement results in a 20% improvement in resistance to abrasion, a 30% improvement in fatigue strength, and an overall improvement in surface finish
- ▶ "L" Suffix indicates Lightweight version which is 3-4 grams lighter than standard part number



CYL HEAD COMPONENTS

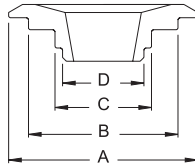
Part No.	Part No. w/ Impinge	Quantity	Spring Type	Spring	Spring O.D.	Dimensions				Wgt/ Grams
						A	B	C	D	
23746L-16	-----	16 pcs.	Double	Manley 221446SF	1.400"	1.260"	.980"	.690"	--	12
23701-16	-----	16 pcs.	Double	Manley 221420, 1455, 1456, 1457, 1460, 1461	1.500"	1.325"	1.035"	.705"	--	14
23700L-16	-----	16 pcs.	Double	PSI CT1040	1.500"	1.450"	1.080"	.785"	--	16
23670-16	-----	16 pcs.	Double	Manley 22431, 22440, 22441	1.550"	1.500"	1.105"	.710"	--	19
23702L-16	-----	16 pcs.	Double	Manley 221452SF	1.550"	1.450"	1.120"	.790"	--	17
23672-16	-----	16 pcs.	Double	Manley 221441P, 22429, 22430	1.550"	1.500"	1.125"	.730"	--	18
23672L-16	-----	16 pcs.	Double	20% lighter than 23672	1.550"	1.450"	1.125"	.730"	--	14
23674L-16	-----	16 pcs.	Double	Comp. 927	1.550"	1.450"	1.140"	.730"	--	17
23669-16	-----	16 pcs.	Double	Comp 26099	1.550"/1.625"	1.500"	1.175"	.765"	--	21
23705L-16	23705LI-16	16 pcs.	Double	Manley 221440P	1.560"	1.450"	1.140"	.745"	--	16
23706L-16	23706LI-16	16 pcs.	Double	.050" more installed than 23705L	1.560"	1.450"	1.140"	.745"	--	16
23682-16	-----	16 pcs.	Double	Manley 221442	1.560"	1.500"	1.120"	.805"	--	21
23682L-16	-----	16 pcs.	Double	16% lighter than 23682	1.560"	1.450"	1.120"	.805"	--	17
23681-16	-----	16 pcs.	Double	Manley 221443, 221444	1.580" / 1.610"	1.500"	1.150"	.825"	--	21
23681L-16	23681LI-16	16 pcs.	Double	17% lighter than 23681	1.580" / 1.610"	1.450"	1.150"	.825"	--	18
23691-16	-----	16 pcs.	Double	.050" more installed than 23681	1.580" / 1.610"	1.500"	1.150"	.825"	--	20
23685-16	-----	16 pcs.	Double	Manley 221445P	1.620"	1.500"	1.175"	.840"	--	20
23685L-16	-----	16 pcs.	Double	16% lighter than 23685	1.620"	1.460"	1.175"	.840"	--	17
23708L-16	-----	16 pcs.	Triple	Manley 221447, 221448, 221449, 221450	1.660"	1.450"	1.185"	.870" .635"	17	

Please call with your custom retainer requirements

SPRING RETAINERS

Lightweight 10° Titanium Retainers

- ▶ Squeeze more RPM's out of your engine
- ▶ Avoid valve float
- ▶ Lightweight retainer does not sacrifice reliability
- ▶ 16 grams - compared to normal 19 to 21 grams
- ▶ Special heat treated titanium for maximum strength
- ▶ Must use 10° valve locks



CYL HEAD COMPONENTS

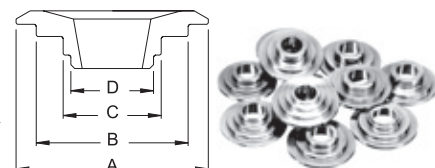
Part No.	Quantity	Spring Type	Spring	Height	Spring O.D.	Dimensions				Wgt/ Grams
						A	B	C	D	
23540-16	16 pcs.	Double	Manley 221424, 221425, 221454	+.100"	1.625"	1.430"	1.175"	.850"	- - -	17
23562-16	16 pcs.	Triple	Pacaloy Comp 946, 947, 948	+.100"	1.625" / 1.650"	1.430"	1.190"	.875"	.640"	16
23553-16	16 pcs.	Triple	Manley 221447, 221448, 221449, 221450	+.100"	1.660"	1.430"	1.185"	.860"	.620"	16
23553I-16	16 pcs.	Triple	Manley 221447, 221448, 221449, 221450	+.100"	1.660"	1.430"	1.185"	.860"	.620"	16
23553 I retainer is impinged.										
23679-16*	16 pcs.	Double	Manley 221420, 1455, 1456, 1457, 1460, 1461	+.100"	1.500"	1.325"	1.035"	.705"	- - -	14
23683-16*	16 pcs.	Double	Manley 221420, 1455, 1456, 1457, 1460, 1461	+.170"	1.500"	1.325"	1.035"	.705"	- - -	14
23753-16*	16 pcs.	Triple	Manley 221447, 221448, 221449, 221450	+.100"	1.660"	1.430"	1.185"	.860"	.620"	17
* Made from our high strength TI-17 Titanium Material										



ATI Racings J.C. Beattie Jr.

10° Titanium Retainers

- ▶ Special 6AL-4V titanium for maximum strength
- ▶ Excellent value for all forms of racing



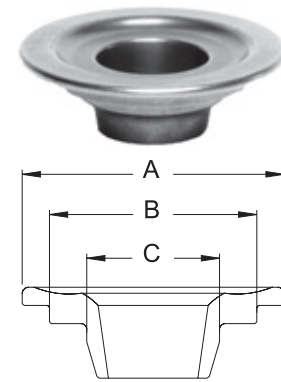
Part No.	Quantity	Spring Type	Spring	Height	Spring O.D.	Dimensions				Wgt/ Grams
						A	B	C	D	
23630-16	16 pcs.	Outer-Inner	22406, 22407, 22408	Std.	1.437"/1.550"	1.440"	1.050"	.700"	---	15
23684-16	16 pcs.	Double	Manley 221420, 1455, 1456, 1457, 1460, 1461	Std.	1.500"	1.325"	1.035"	.705"	---	14
23644-16	16 pcs.	Double	Manley 221432, Manley 221440P, Comp. 927	Std.	1.550"	1.500"	1.140"	.740"	---	17
23658-16	16 pcs.	Double	Manley 22431, 22440, 22441	Std.	1.550"	1.500"	1.105"	.710"	---	16
23657-16	16 pcs.	Double	Manley 22429, 22430	Std.	1.550"	1.500"	1.120"	.705"	---	18
23649-16	16 pcs.	Double	Manley 221424, 221425, 221454	Std.	1.625"	1.500"	1.175"	.850"	---	19
23654-16	16 pcs.	Double	Comp. 26099	Std.	1.625"	1.500"	1.175"	.765"	---	17
23663-16	16 pcs.	Triple	Manley 221447, 221448, 221449, 221450	Std.	1.660"	1.500"	1.185"	.860"	.620"	21
23619-16	16 pcs.	Double	Manley 221422	+.050"	1.335"	1.235"	.900"	.615"	---	11
23676-16	16 pcs.	Double	Manley 221420, 1455, 1456, 1457, 1460, 1461	+.100"	1.500"	1.325"	1.035"	.705"	---	13
23641-16	16 pcs.	Triple	Crane 99882	+.100"	1.550"	1.500"	1.130"	.735"	.640"	17
23650-16	16 pcs.	Double	Manley 221432, Manley 221440P, Comp. 927	+.100"	1.530"/1.570"	1.500"	1.140"	.740"	---	18
23660-16	16 pcs.	Double	Manley 22431, 22440, 22441	+.100"	1.550"	1.500"	1.105"	.710"	---	17
23661-16	16 pcs.	Double	Manley 22429, 22430	+.100"	1.550"	1.500"	1.120"	.705"	---	17
23647-16	16 pcs.	Double	Manley 221441P, Comp. 938, K-950	+.100"	1.550"	1.500"	1.120"	.730"	---	18
23643-16	16 pcs.	Double	Manley 221442	+.100"	1.560"	1.500"	1.120"	.805"	---	19
23648-16	16 pcs.	Double	Manley 221443, 221444 Comp. 951	+.100"	1.580"/1.610"	1.500"	1.150"	.825"	---	20
23655-16	16 pcs.	Double	Comp. 26099	+.100"	1.625"	1.500"	1.175"	.750"	---	17
23640-16	16 pcs.	Double	Manley 221424, 221425, 221454	+.100"	1.625"	1.500"	1.175"	.850"	---	20
23662-16	16 pcs.	Triple	Comp. 948	+.100"	1.625"	1.500"	1.190"	.875"	.640"	19
23665-16	16 pcs.	Triple	K-1400	+.100"	1.625"	1.500"	1.185"	.765"	.645"	18
23653-16	16 pcs.	Triple	Manley 221447, 221448, 221449, 221450	+.100"	1.660"	1.500"	1.185"	.860"	.620"	19

SPRING RETAINERS

TensileMax Steel Retainers

These are serious retainers for serious engine builders who *DEMAND THE VERY BEST...*

- ▶ Manufactured from our incredibly tough TensileMax alloy
- ▶ Designed to be as light as standard titanium retainers and very close in weight to lightweight titanium versions (within 2-4 grams)
- ▶ Specially heat treated to provide a hardness of Rc 52-54 and prevent retainer wear
- ▶ Exclusive process yields a part that provides the optimum balance between ultimate strength, fatigue strength, hardness and ductility
- ▶ Unique impingement process developed specifically for our TensileMax alloy and hardness range to improve fatigue strength and promote better oiling between the spring and retainer



CYL HEAD COMPONENTS

Part No.	Quantity	Spring Type	Spring	Spring O.D.	Keeper Degree	Dimensions			Wgt/ Grams
						A	B	C	
23746TM-16	16 pcs.	Double	Manley 221446SF	1.400"	Super 7°	1.260"	.980"	.690"	16
23675TM-16	16 pcs.	Double	Manley 221420, 1455, 1456, 1457, 1460, 1461	1.500"	7° (+.100")	1.325"	1.035"	.705"	18
23676TM-16	16 pcs.	Double	Manley 221420, 1455, 1456, 1457, 1460, 1461	1.500"	10° (+.100")	1.325"	1.035"	.705"	17
23670TM-16	16 pcs.	Double	Manley 22431, 22440, 22441	1.550"	Super 7°	1.420"	1.105"	.710"	20
23702LTM-16	16 pcs.	Double	Manley 221452SF	1.550"	Super 7°	1.440"	1.120"	.790"	20
23674TM-16	16 pcs.	Double	Comp. 927	1.550"	Super 7°	1.440"	1.140"	.730"	22
23682TM-16	16 pcs.	Double	Manley 221442	1.560"	Super 7°	1.440"	1.120"	.805"	23
23672TM-16	16 pcs.	Double	Manley 221441P, 22429, 22430	1.570"	Super 7°	1.440"	1.125"	.730"	20
23705TM-16	16 pcs.	Double	Manley 221440P	1.570"	Super 7°	1.440"	1.140"	.745"	22
23705LTM-16	16 pcs.	Double	14% lighter than 23705TM	1.570"	Super 7°	1.440"	1.140"	.745"	19
23685TM-16	16 pcs.	Double	Manley 221445P	1.620"	Super 7°	1.460"	1.175"	.840"	23

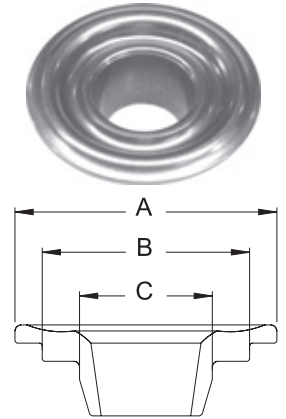


CNC Retainer Machining

Lightweight H-13 Tool Steel Retainers

For those searching for a slightly more economical alternative to titanium retainers, either to help solve a "wear problem" or because of "class rules," Manley lightweight H-13 Tool Steel retainers are your solution! H-13 tool steel allows for better processing than "other" tool steels typically utilized; thus yielding a stronger, more durable product.

- ▶ Up to 33% lighter than standard 10° steel retainers
- ▶ Only 2-4 grams heavier than titanium versions
- ▶ Heat treated to provide a hardness of Rc 56



CYL HEAD COMPONENTS

Part No.	Quantity	Spring Type	Spring	Spring O.D.	Keeper Degree	Dimensions			Wgt/ Grams
						A	B	C	
23605TS-32	32 pcs.	Single	Manley 221419	1.013"	7° x 6mm	.875"	.640"	.440"	8
23606TS-16	16 pcs.	Single	Manley 221428, 221438	1.076"	10° (Std.)	.935"	.640"	----	8
23652TS-16	16 pcs.	Single	Manley 22409, 22410, 22411	1.255"	7° x 11/32" (+.050")	1.120"	.865"	.538"	13
23616TS-16	16 pcs.	Double	Manley 221436	1.295"	10° (+.050")	1.155"	.950"	.675"	15
23634TS-16	16 pcs.	Double	Manley 221421	1.324"	10° (+.050")	1.200"	.910"	.665"	15
23615TS-16	16 pcs.	Double	Manley 221435	1.340"	10° (Std.)	1.190"	.985"	.715"	16
23633TS-16	16 pcs.	Double	Manley 221435	1.340"	10° (+.050")	1.190"	.985"	.715"	15
23619TS-16	16 pcs.	Double	Manley 221422	1.335"	10° (+.050")	1.235"	.900"	.615"	15
23746TS-16	16 pcs.	Double	Manley 221446SF	1.400"	Super 7°	1.245"	.980"	.690"	17
23747TS-16	16 pcs.	Double	Manley 221446SF	1.400"	10° (+.100")	1.245"	.980"	.690"	18
23635TS-16	16 pcs.	Single/Double	Manley 22406, 22407, 22408	1.437"/1.550"	10° (+.060")	1.420"	1.050"	.700"	20
23650TS-16	16 pcs.	Double	Manley 221432, 221440P	1.530"/1.570"	10° (+.100")	1.440"	1.140"	.740"	23
23660TS-16	16 pcs.	Double	Manley 22431, 22440, 22441	1.550"	10° (+.100")	1.440"	1.105"	.710"	21
23670TS-16	16 pcs.	Double	Manley 22431, 22440, 22441	1.550"	Super 7°	1.440"	1.105"	.710"	22
23702TS-16	16 pcs.	Double	Manley 221452SF	1.550"	Super 7°	1.440"	1.120"	.790"	23
23643TS-16	16 pcs.	Double	Manley 221442	1.560"	10° (+.100")	1.440"	1.120"	.805"	23
23682TS-16	16 pcs.	Double	Manley 221442	1.560"	Super 7°	1.440"	1.120"	.805"	23
23647TS-16	16 pcs.	Double	Manley 221441P, 22429, 22430	1.570"	10° (+.100")	1.440"	1.120"	.730"	22
23672TS-16	16 pcs.	Double	Manley 221441P, 22429, 22430	1.570"	Super 7°	1.440"	1.125"	.730"	20
23648TS-16	16 pcs.	Double	Manley 221443, 221444	1.580"/1.610"	10° (+.100")	1.440"	1.150"	.825"	24
23681TS-16	16 pcs.	Double	Manley 221443, 221444	1.580"/1.610"	Super 7°	1.440"	1.150"	.825"	24

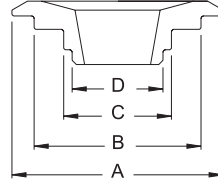
Call your Manley salesman to inquire about custom H-13 tool steel retainers

Note: New part numbers are **BOLD & ITALICIZED**

SPRING RETAINERS

Street Master Steel Valve Spring Retainers

- ▶ CNC machined to exacting tolerances
- ▶ Thru-hardened 4140 chrome moly



CYL HEAD COMPONENTS

Part No.	Quantity	Spring	Spring Height	Spring O.D.	Keeper Degree X	Valve Stem	A	Dimensions			Wgt/ Grams
								B	C	D	
23604-32	32 pcs.	221418	Std.	.841"	7° x 6mm	.795"	.525"	---	---	---	7
23612-16	16 pcs.	221431, 221439	Std.	1.076"	7° x 5/16"	.935"	.640"	---	---	---	10
23620-16	16 pcs.	221428, 221438	Std.	1.076"	7° x 8mm	.935"	.640"	---	---	---	10
23651-16	16 pcs.	22409, 22410, 22411	Std.	1.250"	7° x 11/32"	1.245"	.865"	.680"	---	---	21
23652-16	16 pcs.	22409, 22410, 22411	+.050"	1.250"	7° x 11/32"	1.245"	.865"	.680"	---	---	21
23621-16	16 pcs.	221436	+.050"	1.295"	7° x 8mm	1.155"	.950"	.675"	---	---	17
23621-8	8 pcs.	221436 (LT4 Exh)	+.050"	1.295"	7° x 8mm	1.155"	.950"	.675"	---	---	17
23628-8	8 pcs.	221436 (LT4 Int)	+.105"	1.295"	7° x 8mm	1.155"	.950"	.675"	---	---	17
23610-16	16 pcs.	221435	+.050"	1.340"	7° x 8mm	1.200"	.985"	.715"	---	---	19
23645-16	16 pcs.	22406, 22407, 22408	Std.	1.437"/1.550"	7° x 11/32"	1.440"	1.050"	.700"	---	---	28
23635-16	16 pcs.	22406, 22407, 22408	+.060"	1.437"/1.550"	10° x All	1.440"	1.050"	.700"	---	---	31
23666-16	16 pcs.	22406, 22407, 22408	Std.	1.437"/1.550"	7° x 3/8"	1.440"	1.050"	.700"	---	---	31
23646-16	16 pcs.	22406, 22407, 22408	+.100"	1.437"/1.550"	7° x 11/32"	1.440"	1.050"	.700"	---	---	30
23636-16	16 pcs.	Crane 99882	Std.	1.550"	10° x All	1.500"	1.130"	.735"	.640"	---	29
23659-16	16 pcs.	Manley 22431, 22440, 22441	+.100"	1.550"	10° x All	1.500"	1.105"	.710"	---	---	31

P/N 23610, 23620, 23621 and 23628 must use Manley 13098 or factory Chevrolet LS/LT4 valve locks

Valve Spring Shims

- ▶ Available in .060", .030" and .015" thickness
- ▶ Heat treated to resist wear



.060"	Part Numbers		Quantity	O.D.	I.D.	Type	Description
	.030"	.015"					
02236-50	02233-50	02231-50	50 pcs.	1.250"	.812"	Hard	SB Chevy-stock size springs
03236-50	03233-50	03231-50	50 pcs.	1.480"	.703"	Hard	BB Chevrolet
03256-50	03253-50	03251-50	50 pcs.	1.437"	.785"	Hard	SB Chevrolet w/ larger springs
03266-50	03263-50	03261-50	50 pcs.	1.500"	.645"	Hard	Chevrolet - Chrysler
03276-50	03273-50	03271-50	50 pcs.	1.625"	.645"	Hard	Chevrolet - Chrysler -Ford

Note: New part numbers are **BOLD & ITALICIZED**

SPRING CUPS & I.D. LOCATORS

O.D. Valve Spring Cups

- ▶ CNC machined
- ▶ Accurate and durable .062" thick
- ▶ Heat treated and black oxide finished



Part No.	Quantity	Fits Spring O.D.	Cup O.D.	Cup I.D.	Wall Shoulder Height	Manley Spring	Use Cutter Number
42142-16	16 pcs.	1.250"	1.390"	.570"	.150"	22409, 22410, 22411	41850
42126-16	16 pcs.	1.437"	1.550"	.687"	.150"	22407, 22408	41835
42122-16	16 pcs.	1.550"	1.680"	.635"	.150"	22429, 22430, 22431, 22440, 22441	41852
42377-16	16 pcs.	1.550"	1.680"	.577"	.150"	22429, 22430, 22431, 22440, 22441	41858
42370-16	16 pcs.	1.580"	1.687"	.570"	.140"	221443	41858
42365-16	16 pcs.	1.610"	1.740"	.570"	.140"	221444	41859
42121-16	16 pcs.	1.625"	1.740"	.635"	.150"	221424, 221425, 221454	41851
42128-16	16 pcs.	1.625"	1.740"	.635"	.250"	221424, 221425, 221454	41851
42379-16	16 pcs.	1.650"	1.740"	.570"	.250"	221424, 221425, 221454	41859
42371-16	16 pcs.	1.677"	1.740"	.635"	.140"	221447, 221448, 221449 221450	41851
42372-16	16 pcs.	1.677"	1.740"	.570"	.140"	221447, 221448, 221449 221450	41859

Pro Series I.D. Valve Spring Locators

- ▶ CNC machined to tolerances $\pm .002"$
- ▶ Excellent surface finish
- ▶ 8620 material heat treated and black oxide finished



Part No.	Quantity	Fits Spring O.D.	Locator O.D.	Locator I.D.	Locator Thickness	Wall Shoulder Height	Shoulder Diameter	Manley Spring	Use Cutter Number
42446-16	16 pcs.	1.400"	1.410"	.567"	.062"	.163"	.690"	221446SF	41850
42426-16	16 pcs.	1.550"	1.535"	.567"	.062"	.163"	.740"	221432, 221441P	41856
42466-16	16 pcs.	1.550"	1.535"	.567"	.045"	.163"	.740"	221432, 221441P	41856
42402-16	16 pcs.	1.550"	1.540"	.567"	.062"	.163"	.795"	221452SF	41856
42443-16	16 pcs.	1.560"	1.550"	.567"	.062"	.163"	.802"	221442	41856
42573-16	16 pcs.	1.580"	1.570"	.567"	.062"	.163"	.828"	221443	41856
42438-16	16 pcs.	1.580"	1.570"	.567"	.045"	.163"	.828"	221443	41856
42437-16	16 pcs.	1.625"	1.570"	.567"	.062"	.163"	.850"	221424, 221425, 221454	41857

Please call with your custom spring locator requirements

SPRING LOCATORS

I.D. Valve Spring Locators

- ▶ CNC machined
- ▶ Accurate and durable
- ▶ Heat treated and black oxide finished



CYL HEAD COMPONENTS

Part No.	Quantity	Fits Spring O.D.	Locator O.D.	Locator I.D.	Locator Thickness	Wall Shoulder Height	Shoulder Diameter	Spring	Use Cutter Number
42460-16	16 pcs.	.870"	.845"	.555"	.057"	.100"	.600"	Manley 22160 Inner Spring	None
42153-32	32 pcs.	1.013"	1.080"	.445"	.045"	.100"	.725"	Manley 221419	None
42115-16	16 pcs.	1.160"	1.100"	.500"	.095"	.200"	.610"	Manley 22115	None
42141-16	16 pcs.	1.255"	1.240"	.577"	.035"	.145"	.865"	Manley 22411	41850
42143-16	16 pcs.	1.255"	1.240"	.577"	.180"	.145"	.865"	Manley 22411	41850
42123-16	16 pcs.	1.255"	1.250"	.780"	.180"	.090"	.880"	Manley 22411	None
42334-16	16 pcs.	1.290"	1.270"	.505"	.035"	.145"	.675"	Manley 221436	None
42162-8	8 pcs.	1.290"	1.270"	.520"	.035"	.145"	.675"	Manley 221436	None
42138-16	16 pcs.	1.290"	1.270"	.505"	.062"	.145"	.675"	Manley 221436	None
42165-8	8 pcs.	1.290"	1.270"	.520"	.150"	.145"	.675"	Manley 221436	None
42124-16	16 pcs.	1.290"	1.270"	.570"	.062"	.145"	.675"	Manley 221436	41850
42338-16	16 pcs.	1.311"	1.290"	.505"	.035"	.145"	.875"	Manley 221428, 221438	None
42148-8	8 pcs.	1.311"	1.290"	.520"	.035"	.145"	.875"	Manley 221428, 221438	None
42336-16	16 pcs.	1.311"	1.290"	.505"	.062"	.145"	.875"	Manley 221428, 221438	None
42349-16	16 pcs.	1.311"	1.290"	.570"	.062"	.145"	.875"	Manley 221428, 221438	41850
42161-8	8 pcs.	1.311"	1.290"	.520"	.190"	.145"	.875"	Manley 221428, 221438	None
42324-16	16 pcs.	1.311"	1.300"	.812"	.205"	.145"	.875"	Manley 221431	None
42117-16	16 pcs.	1.324"	1.300"	.505"	.035"	.145"	.665"	Manley 221421	None
42130-16	16 pcs.	1.324"	1.300"	.567"	.035"	.145"	.665"	Manley 221421	None
42129-16	16 pcs.	1.335"	1.310"	.505"	.035"	.145"	.615"	Manley 221422	None
42131-16	16 pcs.	1.335"	1.310"	.567"	.035"	.145"	.615"	Manley 221422	None
42348-16	16 pcs.	1.340"	1.320"	.505"	.035"	.145"	.715"	Manley 221435	None
42168-8	8 pcs.	1.340"	1.320"	.520"	.035"	.145"	.715"	Manley 221435	None
42135-16	16 pcs.	1.340"	1.320"	.567"	.035"	.145"	.715"	Manley 221435	None
42169-8	8 pcs.	1.340"	1.320"	.520"	.150"	.145"	.715"	Manley 221435	None
42344-16	16 pcs.	1.550"	1.535"	.635"	.035"	.140"	.705"	Manley 221420, 1455, 1456, 1457, 1460, 1461	41835
42335-16	16 pcs.	1.550"	1.535"	.635"	.062"	.140"	.705"	Manley 221420, 1455, 1456, 1457, 1460, 1461	41835
42347-16	16 pcs.	1.550"	1.535"	.570"	.062"	.140"	.705"	Manley 221420, 1455, 1456, 1457, 1460, 1461	41856
42119-16	16 pcs.	1.550"	1.535"	.635"	.062"	.140"	.720"	Manley 22430, 22431, 22440, Isky 9385	41835
42317-16	16 pcs.	1.550"	1.535"	.570"	.062"	.140"	.720"	Manley 22430, 22431, 22440	41856
42330-16	16 pcs.	1.550"	1.535"	.635"	.062"	.140"	.740"	Manley 221432, 221441P	41835
42326-16	16 pcs.	1.550"	1.535"	.570"	.062"	.140"	.740"	Manley 221432, 221441P	41856
42378-16	16 pcs.	1.550"	1.535"	.570"	.062"	.140"	.765"	Isky 9685	41856
42331-16	16 pcs.	1.550"	1.530"	.570"	.062"	.140"	.750"	Manley 221440P	41856
42332-16	16 pcs.	1.550"	1.535"	.570"	.062"	.140"	.810"	Comp 943	41856
42333-16	16 pcs.	1.550"	1.535"	.635"	.062"	.140"	.810"	Comp 943	41835

Please call with your custom spring locator requirements

I.D. Valve Spring Locators (Continued)

- ▶ CNC machined
- ▶ Accurate and durable
- ▶ Heat treated and black oxide finished



Part No.	Quantity	Fits Spring O.D.	Locator O.D.	Locator I.D.	Cup Thickness	Wall Shoulder Height	Shoulder Diameter	Spring	Use Cutter Number
42343-16	16 pcs.	1.560"	1.550"	.567"	.062"	.163"	.802"	Manley 221442	41856
42373-16	16 pcs.	1.580"	1.570"	.570"	.062"	.140"	.825"	Manley 221443	41856
42369-16	16 pcs.	1.580"	1.570"	.635"	.062"	.140"	.825"	Manley 221443	41856
42367-16	16 pcs.	1.610"	1.610"	.570"	.062"	.140"	.825"	Manley 221444	41857
42368-16	16 pcs.	1.610"	1.610"	.635"	.062"	.140"	.825"	Manley 221444	41855
42342-16	16 pcs.	1.620"	1.610"	.570"	.062"	.140"	.840"	Manley 221445P	41857
42337-16	16 pcs.	1.625"	1.570"	.570"	.062"	.140"	.850"	Manley 221424, 221425, 221454	41857
42120-16	16 pcs.	1.625"	1.610"	.635"	.062"	.140"	.705"	Manley 221420, 1455, 1456, 1457, 1460, 1461 K Motion K1000, K1000H	41855
42318-16	16 pcs.	1.625"	1.610"	.570"	.062"	.140"	.705"	Manley 221420, 1455, 1456, 1457, 1460, 1461 K Motion K1000, K1000H	41857
42374-16	16 pcs.	1.625"	1.610"	.570"	.062"	.140"	.765"	Comp 26099	41857
42376-16	16 pcs.	1.625"	1.615"	.570"	.062"	.140"	.675"	Crane 99877	41857
42375-16	16 pcs.	1.625"	1.625"	.635"	.062"	.140"	.760"	Isky 9685	41855
42364-16	16 pcs.	1.677"	1.660"	.570"	.062"	.140"	.630"	Manley 221447, 221448, 221449, 221450	41858

Please call with your custom spring locator requirements



Double Spindle CNC Turning

Rocker Stud Boss Cutters

- ▶ Extra large diameter cutter to completely clean stud bosses while reducing height
- ▶ Due to the severe use to which these cutters are subjected, we are not able to warranty damaged goods

Part No.	Quantity	Description
41860	1	Use for Fords and Small Block Chevys



Cylinder Head Spring Seat Cutters

- ▶ Extra strength carbide cutters
- ▶ Due to the severe use to which these cutters are subjected, we are not able to warranty damaged goods

Replacement pilots: 7mm/.274" - 41274, 5/16" - 41516, 11/32" - 41132, 3/8" - 41138

Part No.	Quantity	Description
41824	1	Cuts 1.260" O.D., .742" I.D. with 11/32" pilot
41850	1	Cuts 1.445" O.D., .565" I.D. with 11/32" pilot
41835	1	Cuts 1.565" O.D., .625" I.D. with 11/32" pilot
41856	1	Cuts 1.585" O.D., .562" I.D. with 11/32" pilot
41857	1	Cuts 1.635" O.D., .570" I.D. with 11/32" pilot
41855	1	Cuts 1.635" O.D., .625" I.D. with 11/32" pilot
41858	1	Cuts 1.690" O.D., .570" I.D. with 11/32" pilot
41852	1	Cuts 1.690" O.D., .625" I.D. with 11/32" pilot
41859	1	Cuts 1.755" O.D., .570" I.D. with 11/32" pilot
41851	1	Cuts 1.755" O.D., .625" I.D. with 11/32" pilot



Valve Guide Seal Cutters

- ▶ Extra strength carbide cutters
- ▶ Due to the severe use to which these cutters are subjected, we are not able to warranty damaged goods

Part No.	Quantity	Pilot Size	Seal No.	Guide O.D.
41410	1	7mm (.274")	24041	.431"
41510	1	5/16"	24040	.420"
41610	1	5/16"	24029	.500"
41710	1	5/16"	24034	.530"
41611	1	11/32"	24037	.500"
41711	1	11/32"	24035	.530"
41612	1	3/8"	24039	.500"
41712	1	3/8"	24036	.530"



Valve Guide Seal Cutter Pilot

- ▶ For use with any spring seat or seal cutter

Part No.	Quantity	Description
41274	1	7mm cutter pilot
41516	1	5/16" cutter pilot
41132	1	11/32" cutter pilot
41138	1	3/8" cutter pilot



Small Block Chevrolet

Ball End Pushrods .080" Wall 1010 Steel

- ▶ Excellent pushrods for mildly modified engines with open spring pressure under 300 lbs

Part No.	Quantity	Description	Diameter	Length
25737-16	16 pcs.	SB Chevy - Stock Length	5/16"	7.794"
25777-16	16 pcs.	SB Chevy - .100" Longer	5/16"	7.894"
25790-16	16 pcs.	SB Chevy - .150" Longer	5/16"	7.944"



Ford 5.0L

Swedged End Pushrods .080" Wall 1010 Steel & 4130 Chrome Moly

- ▶ Stock length pushrod for use with stock Ford valve (5.080" O/A)
- ▶ Use of Chevy valves (O/A 4.911") in Ford heads requires .172" shorter pushrods

Part No.	Quantity	Description	Material	Diameter	Length
25627-16	16 pcs.	Stock Length	4130	5/16"	6.272"
25610-16	16 pcs.	.172" Shorter	4130	5/16"	6.100"



PUSHRODS, DRIVE & OIL PUMPS

Pushrod Length Checker

- ▶ Long valves, milled heads, cut blocks, small base circle camshafts all move rocker geometry far from optimum
- ▶ Correct length pushrods keep rockers centered on the valve tip and reduce stem and guide wear
- ▶ Checker tells the engine builder instantly what length pushrod is required

Part No.	Quantity	Description
42137	1	Small Block Chevys w/ 3/8" studs
42132	1	Small Block Chevys w/ 7/16" studs
42133	1	Big Block Chevys (intakes and exhausts)



PUSHRODS

4130 Chrome Moly Swedged End Pushrods

- ▶ Meticulously formed ends with exact radii
- ▶ Excellent concentricity, closely controlled length
- ▶ Heat treated and black oxide finished
- ▶ Private label programs available



5/16" .080" WALL



5/16" .120" WALL

PUSHRODS, DRIVE & OIL PUMPS

Length	5/16" Dia. .080" Wall Part No.	5/16" Dia. .120" Wall Part No.	3/8" Dia. .080" Wall Part No.	3/8" Dia. .135" Wall Part No.	7/16" Dia. .165" Wall Part No.
6.050	25605-16				
6.100	25610-16				
6.150	25615-16				
6.200	25620-16				
6.250	25625-16				
6.275	25627-16				
6.300	25630-16	25205-16		25305-8	
6.350	25635-16	25206-16		25306-8	
6.400	25640-16	25207-16		25307-8	
6.450	25645-16			25308-8	
6.500	25650-16		25843-8	25309-8	
6.550	25655-16		25844-8		
6.600	25660-16	25211-16	25846-8		
6.650	25665-16	25212-16	25837-8		
6.700	25670-16	25213-16	25838-8		
6.750	25675-16	25214-16	25839-8		
6.800	25680-16	25215-16	25817-8		
6.850	25685-16	25216-16	25819-8	25316-8	
6.875	25688-16				
6.900	25690-16	25217-16	25853-8	25317-8	
6.950	25695-16	25218-16	25857-8	25318-8	
7.000	25700-16	25219-16	25862-8	25319-8	
7.050	25727-16	25220-16	25827-8		
7.100	25729-16	25221-16	25829-8		
7.150	25741-16	25222-16	25841-8		
7.175	25739-16				
7.200	25733-16	25223-16	25872-8		
7.250	25734-16	25224-16	25873-8		
7.275	25720-16				
7.300	25730-16	25225-16	25874-8		
7.325	25731-16				
7.350	25751-16	25226-16	25851-8		
7.375	25732-16				
7.400	25735-16	25227-16	25822-8	25327-8	
7.425	25759-16		25852-8		
7.450	25736-16	25228-16	25836-8	25328-8	
7.475	25760-16		25861-8		
7.500	25754-16	25229-16	25854-8	25329-8	
7.525	25761-16		25866-8		
7.550	25755-16	25230-16	25818-8	25330-8	
7.575	25778-16		25871-8		
7.600	25767-16	25231-16	25876-8	25331-8	25174-8
7.625	25775-16		25824-8	25301-8	
7.650	25768-16	25232-16	25877-8	25332-8	25129-8
7.675	25713-16		25834-8	25302-8	
7.700	25772-16	25233-16	25828-8	25333-8	25130-8
7.725	25749-16		25831-8	25303-8	
7.750	25707-16	25234-16	25832-8	25334-8	25131-8
7.775	25780-16		25833-8	25304-8	
7.800	25709-16	25235-16	25787-8	25335-8	25132-8
7.825	25781-16	25281-16	25808-8	25310-8	
7.850	25711-16	25236-16	25878-8	25336-8	25133-8
7.875	25794-16		25879-8	25311-8	
7.900	25712-16	25237-16	25788-8	25337-8	25134-8
7.925	25886-16		25813-8	25312-8	
7.950	25715-16	25238-16	25814-8	25338-8	25135-8
7.975	25888-16		25809-8	25313-8	
8.000	25716-16	25239-16	25816-8	25339-8	25136-8
8.025			25802-8	25314-8	
8.050	25721-16	25240-16	25821-8	25340-8	25137-8

Length	5/16" Dia. .080" Wall Part No.	5/16" Dia. .120" Wall Part No.	3/8" Dia. .080" Wall Part No.	3/8" Dia. .135" Wall Part No.	7/16" Dia. .165" Wall Part No.
8.075	25881-16			25807-8	
8.100	25722-16	25241-16	25810-8	25341-8	25138-8
8.125	25883-16		25811-8		
8.150	25744-16	25242-16	25815-8	25342-8	25139-8
8.175	25783-16		25812-8		
8.200	25745-16		25820-8	25343-8	25140-8
8.225	25884-16		25823-8		
8.250	25701-16		25825-8	25344-8	25141-8
8.275	25753-16			25300-8	
8.280			25795-8	25320-8	25142-8
8.300	25702-16		25830-8	25345-8	25143-8
8.325	25762-16		25826-8		
8.350	25703-16		25835-8	25346-8	25144-8
8.375	25763-16				
8.380			25769-8		
8.400	25706-16		25840-8	25347-8	25145-8
8.425	25764-16		25842-8		
8.450	25708-16		25845-8	25348-8	25146-8
8.475			25847-8		
8.500	25774-16		25850-8	25349-8	25147-8
8.525			25856-8		
8.550	25710-16		25855-8	25350-8	25148-8
8.575			25858-8		
8.600	25718-16		25860-8	25351-8	25149-8
8.625			25863-8		
8.650	25724-16		25865-8	25352-8	25150-8
8.680			25797-8	25321-8	25151-8
8.700	25799-16		25870-8	25353-8	25152-8
8.725			25867-8		
8.750	25738-16		25875-8	25354-8	25153-8
8.775			25868-8		
8.800	25742-16		25880-8	25355-8	25154-8
8.825			25882-8		
8.850	25746-16		25885-8	25356-8	25155-8
8.875			25887-8		
8.900	25758-16		25890-8	25357-8	25156-8
8.925			25892-8		
8.950	25757-16		25895-8	25358-8	25157-8
8.975			25897-8		
9.000	25765-16		25900-8	25359-8	25158-8
9.025			25926-8		
9.050	25766-16		25905-8	25360-8	25159-8
9.075			25927-8		
9.100	25776-16		25910-8	25361-8	25160-8
9.125			25928-8		
9.150	25791-16		25915-8	25362-8	25161-8
9.175			25929-8		
9.200	25792-16		25920-8	25363-8	25162-8
9.250	25800-16		25796-8	25364-8	25163-8
9.300	25801-16		25930-8	25365-8	25164-8
9.350	25803-16		25770-8	25366-8	25165-8
9.400	25804-16		25940-8	25367-8	25166-8
9.450	25805-16		25945-8	25368-8	25167-8
9.500	25806-16		25950-8	25369-8	25168-8
9.550	25848-16		25955-8	25370-8	25169-8
9.600	25849-16		25960-8	25371-8	25170-8
9.650			25798-8	25372-8	25171-8
9.700	25859-16		25970-8	25373-8	25172-8
9.750			25975-8	25374-8	25173-8
9.800	25864-16		25980-8	25375-8	25175-8

Note: New part numbers are **BOLD & ITALICIZED**

4130 Chrome Moly Swedged End Pushrods

- ▶ Meticulously formed ends with exact radii
- ▶ Excellent concentricity, closely controlled length
- ▶ Heat treated and black oxide finished
- ▶ Private label programs available



3/8" .080" WALL 3/8" .135" WALL 7/16" .165" WALL

Length	5/16" Dia. .080" Wall Part No.	5/16" Dia. .120" Wall Part No.	3/8" Dia. .080" Wall Part No.	3/8" Dia. .135" Wall Part No.	7/16" Dia. .165" Wall Part No.
9.850			25985-8	25376-8	25176-8
9.900	25869-16		25990-8	25377-8	25177-8
9.950			25995-8	25378-8	25178-8
10.000			25906-8	25379-8	25179-8
10.050			25907-8	25380-8	25100-8
10.075					25101-8
10.100		25901-8	25381-8		25102-8
10.125					25103-8
10.150			25908-8	25382-8	25104-8
10.200			25909-8	25383-8	25123-8
10.250			25911-8	25384-8	25124-8
10.300			25912-8	25385-8	25105-8
10.325					25106-8
10.350			25913-8	25386-8	25125-8
10.400			25902-8	25387-8	25126-8
10.425					25203-8
10.450		25914-8	25388-8		25107-8
10.475					25108-8
10.500		25903-8	25389-8		25109-8
10.525					25110-8
10.550		25916-8	25390-8		25111-8
10.575					25112-8
10.600		25917-8	25391-8		25113-8
10.625					25114-8
10.650			25918-8	25392-8	25119-8
10.700			25919-8	25393-8	25120-8
10.750			25921-8	25394-8	25121-8
10.800			25922-8	25395-8	25127-8
10.850			25923-8	25396-8	25115-8
10.875				25322-8	25116-8
10.900		25924-8	25397-8		25117-8
10.925			25323-8		25118-8
10.950			25925-8	25398-8	25122-8
11.000			25904-8	25399-8	25128-8
11.050				25324-8	25180-8
11.100				25325-8	25181-8
11.150					25182-8
11.200					25183-8
11.250					25184-8
11.300					25185-8
11.350					25186-8
11.400					25187-8
11.450					25188-8
11.500					25189-8
11.550					25190-8
11.600					25191-8
11.650					25192-8
11.700					25193-8
11.750					25194-8
11.800					25195-8
11.850					25196-8
11.900					25197-8
11.950					25198-8
12.000					25199-8
12.050					25200-8
12.100					25201-8
12.150					25202-8

Common 5/16" Pushrod Length Applications

.080" Wall Part No.	.120" Wall Part No.	Description	Length
SMALL BLOCK CHEVY			
25709-16	25235-16	265-350 Stock	7.800"
25711-16	25236-16	.050" Longer	7.850"
25712-16	25237-16	.100" Longer	7.900"
25733-16	25223-16	Late Model 350	7.200"
25735-16	25227-16	LS Stock (except LS-7)	7.400"
25711-16	25236-16	L83/LT1 (2014-Up) Stock	7.850"
CHRYSLER / DODGE 5.7L HEMI (Thru 2008)			
26570	26571	5.7L HEMI Includes 8 Intakes and 8 Exhausts	Stock Length Int. 6.600" Exh. 7.825"
CHRYSLER / DODGE SRT-8 6.1L HEMI			
26610	26611	SRT-8 6.1L HEMI Includes 8 Intakes and 8 Exhausts	Stock Length Int. 6.650" Exh. 7.850"
CHRYSLER / DODGE 5.7L HEMI (2009-Up) & 6.4L HEMI			
26640	26641	5.7L/6.4L HEMI Includes 8 Intakes and 8 Exhausts + .025" lengths for smaller base circle aftermarket cams	Length Int. 6.800" Exh. 8.100"
SMALL BLOCK FORD			
25627-16	-----	Stock 5.0 L	6.272"
25744-16	25242-16	Stock 351 W	8.150"
25706-16	-----	Stock 351 C	8.400"
25710-16	-----	Yates +.150"	8.550"

Common 3/8" Pushrod Length Applications

.080" Wall Part No.	.135" Wall Part No.	Description	Length
SMALL BLOCK CHEVY			
25787-8*	25335-8*	Stock & Stock LS-7	7.800"
25788-8*	25337-8*	.100" Longer	7.900"
BIG BLOCK CHEVY			
25795-8	25320-8	Stock Intake	8.280"
25796-8	25364-8	Stock Exhaust	9.250"
25797-8	25321-8	.400" Longer Int.	8.680"
25798-8	25372-8	.400" Longer Exh.	9.650"
SMALL BLOCK FORD			
25815-8*	25342-8*	Stock 351 W	8.150"
25840-8*	25347-8*	Stock 351 C	8.400"
25855-8*	25350-8*	Yates +.150"	8.550"

* You must order 2 sets of 8 pieces for a complete engine.

PUSHRODS, DRIVE & OIL PUMPS

Chrysler - Ford - Pontiac - Holden

Pushrods

- ▶ Cup and tip pushrods and ball end pushrods manufactured of 1010 steel
- ▶ Swedged end pushrods manufactured of 4130 chrome moly
- ▶ All pushrods are heat treated and black oxide finished



.080" Wall Part No.	.120" Wall Part No.	Description	Type	Diam.	Length
CHRYSLER / DODGE ENGINES					
26570	26571	5.7 L HEMI (Thru 2008) Includes 8 Intakes and 8 Exhausts	Swedged	5/16"	Stock Int. 6.600" Exh. 7.825"
26610	26611	SRT-8 6.1 L HEMI Includes 8 Intakes and 8 Exhausts	Swedged	5/16"	Stock Int. 6.650" Exh. 7.850"
26640	26641	5.7 L HEMI (2009-Up) & 6.4 L HEMI Includes 8 Intakes and 8 Exhausts +.025" lengths for smaller base circle aftermarket cams	Swedged	5/16"	Int. 6.800" Exh. 8.100"
25743-16	-----	440 Chrysler w/ adjustable rockers and solid lifters	Cup & Tip	3/8"	9.295"
25756-16	-----	440 Chrysler w/ adjustable rockers and hydraulic lifters	Cup & Tip	3/8"	8.995"
FORD ENGINES					
25704-16	-----	260-289-302 Ford	Ball End	5/16"	6.776"
25728-16	25333-8* (.135" Wall)	302 Boss Ford converted to use 42156 guide plates	Swedged	3/8"	7.700"
25748-16	-----	302W Ford - all engines after 10-21-68	Ball End	5/16"	6.886"
25705-16	-----	332-428 Ford with adjustable rocker arms	Cup & Tip	11/32"	9.157"
25747-16	-----	351W Ford	Ball End	5/16"	8.150"
25744-16	25242-16	351W Ford	Swedged	5/16"	8.150"
25750-16	-----	351C Ford - not Boss	Ball End	5/16"	8.408"
25752-16	25347-8* (.135" Wall)	351C Ford - not Boss	Swedged	3/8"	8.408"
25779-16	25369-8* (.135" Wall)	351M-400 Ford	Swedged	3/8"	9.500"
25789-16	-----	429-460 Ford	Ball End	5/16"	8.550"
25782-16	25350-8* (.135" Wall)	429-460 Ford	Swedged	3/8"	8.550"
PONTIAC ENGINES					
25726-16	-----	400-428-455 Pontiac	Ball End	5/16"	9.130"
HOLDEN ENGINES					
25773-16	-----	Holden V-8	Ball End	5/16"	8.670"



PUSHRODS, DRIVE & OIL PUMPS

* You must order 2 sets of 8 pieces for a complete engine.

Roller Thrust Buttons

- ▶ Prevents camshaft from walking forward in the block
- ▶ Some Small Block Chevys require the center hole in the cam sprocket to be enlarged to .875" diameter

Part No.	Quantity	Description
42111	1	Small Block Chevrolet w/ early (up to 1978) timing cover. Length .810" - .820"
42113	1	Small Block Chevrolet w/ late "short style" (1979/up) timing cover. Length .690"
42145	1	Big Block Chevrolet. Length .950"



Aluminum Camshaft Spacers

- ▶ An excellent economical answer to the problem of camshaft "walk"
- ▶ Some Small Block Chevys require the center hole in the cam sprocket to be enlarged to .875" diameter

Part No.	Quantity	Description
42146	1	Small Block Chevrolet w/ early (up to 1978) timing cover. Length .830"
42144	1	Small Block Chevrolet w/ late "short style" (1979/up) timing cover. Length .690"
42116	1	Big Block Chevrolet. Length .950"



Camshaft Lock Plate

- ▶ Positively secures sprocket bolts in place
- ▶ Bendable tabs. Grade 8 camshaft bolts

Part No.	Quantity	Description
42114	1 kit	SB and BB Chevrolet



Oil Pump Stud & "Drive" Shafts

- ▶ An oil pump stud is the professional way to secure your oil pump to the rear main cap
- ▶ Precision manufactured pump drive shafts

Part No.	Quantity	Description	Application
42339	1	Oil pump stud	Fits all Chevys
42328	1	Oil pump drive shaft	SB Chevy and 90° V-6
42329	1	Oil pump drive shaft	BB Chevy



Chevrolet Lightweight Fuel Pump Pushrod

A stock Chevrolet fuel pump can "float" at high engine speeds just like a heavy intake valve. A lightweight fuel pump pushrod helps a mechanical fuel pump do its job when the tach climbs past 6000 rpm. Made from 4130 chrome moly steel tubing.

Part No.	Quantity	Description
42236	1	Fits Small and Big Block Chevrolet



Lifter Valley Breather Tubes

- ▶ Eliminates excessive oil drain back while maintaining proper ventilation
- ▶ 1/4" NPT Thread Size

Part No.	Quantity	Description
42235-8	8 pcs.	Fits all Chevrolets



TIMING CHAIN KITS

Small Block & Big Block Chevrolet

Billet Steel Sprockets & Double Roller Chain

- ▶ Fully machined billet steel camshaft and crankshaft sprockets
- ▶ Roller chain designed with .250" diameter rollers
- ▶ Crank sprocket includes three keyways enabling either 0°, or +/- 4° of timing
- ▶ Camshaft sprockets are machined for and include a brass wear shim or a captive Torrington thrust bearing



Stock Length Part No.	.005" Shorter Part No.	Description	Chain	Shim/Torrington
73111	73311	SB Chevy w/ Brass Shim	76161	42140
73121	73321	SB Chevy w/ Torrington Bearing	76161	42420
73201	73211	SB Chevy w/ BB Chevy Snout & Brass Shim	76161	42140
73221	73231	SB Chevy w/ BB Chevy Snout & Torrington Bearin	76161	42420
73242	-----	BB Chevy w/ Torrington Bearing and Cam Lock Plate w/ Roller Thrust Button	76162	42420

Cast Cam Sprocket Kits With Torrington Bearings, Roller Thrust Buttons & Locks

- ▶ Fully machined steel crankshaft sprocket with three keyways enabling either 0°, or +/- 4° of timing
- ▶ Cast camshaft sprocket machined for Torrington thrust bearing
- ▶ Roller chain designed with .250" diameter rollers
- ▶ Kit includes captive Torrington bearing, roller thrust button, and Manley camshaft lock



Part No.	Description	Center-to-Center	Chain	Torrington Bearing	Thrust Button	Cam Lock
73141	SB Chevy `55-`78	Stock	76161	42420	42111	42114
73151	SB Chevy `79/up	Stock	76161	42420	42113	42114
73142	BB Chevy	Stock	76162	42420	42145	42114

Race Roller Timing Kits with Torrington Bearings or Brass Wear Shims

- ▶ Fully machined steel crankshaft sprocket with three keyways enabling either 0°, or +/- 4° of timing
- ▶ Cast camshaft sprocket
- ▶ Roller chain designed with .250" diameter rollers
- ▶ Chevrolet kits include a brass wear shim or a captive Torrington thrust bearing

Stock Length Part No.	.005" Shorter Part No.	Description	Chain	Shim/Torrington
73161	73171	SB Chevy w/ Brass Shim	76161	42140
73181	73191	SB Chevy w/ Torrington Bearing	76161	42420
73162	73172	BB Chevy w/ Brass Shim	76162	42140
73182	73192	BB Chevy w/ Torrington Bearing	76162	42420
73174	-----	Ford 255-302-351W (Late 1972-88 with 2 piece fuel pump eccentric)	76174	None
73146	-----	Ford 429-460	76146	None



Street Master Roller Chain Kits

- ▶ Standard style roller chains
- ▶ Three keyway steel crankshaft sprocket and cast cam sprocket enabling either 0°, or +/- 4° of timing
- ▶ Excellent value kit for mild performance engines

Part No.	Description	Center-to-Center	Chain
73163	Small Block Chevrolet	Stock	76163
73168	Big Block Chevrolet	Stock	76168
73164	Ford 255-302-351W (Late 1972-88 with 2 piece fuel pump eccentric)	Stock	76163



PUSHRODS, DRIVE & OIL PUMPS

Small Block Chevrolet LS-1/LS-6 1997-2004, LS-2 & LS-3

Billet Steel Sprockets & Single Roller Chain

- ▶ Fully machined billet steel camshaft and crankshaft sprockets
- ▶ Roller chain designed with .250" diameter rollers
- ▶ Nine keyway crankshaft sprocket enabling either 0°, or +/- 2°, +/- 4°, +/- 6°, +/- 8° of timing
- ▶ Camshaft sprockets are machined for and include a captive Torrington thrust bearing
- ▶ No grinding/modifying of timing cover required
(Not recommended for valve spring pressures exceeding 450 lbs.)



Stock Length Part No.	Description	Center-to-Center	Chain	Torrington
73434	SB Chevy LS-1/LS-6 & LS-2 w/ Torrington Bearing and 9 Keyway Crankshaft Sprocket	Stock	76434	42419
73435	SB Chevy LS-3 Single Bolt Cam w/ Torrington Bearing and 9 Keyway Crankshaft Sprocket	Stock	76434	42419
73436	SB Chevy LS-3 Three Bolt Cam w/ Torrington Bearing and 9 Keyway Crankshaft Sprocket	Stock	76434	42419

Small Block Chevrolet LS-1/LS-6 1997-2004, LS-2 & LS-3

Billet Steel Sprockets & Double Roller Chain

- ▶ Fully machined billet steel camshaft and crankshaft sprockets
- ▶ Roller chain designed with .250" diameter rollers
- ▶ Nine keyway crankshaft sprocket enabling either 0°, or +/- 2°, +/- 4°, +/- 6°, +/- 8° of timing
- ▶ Camshaft sprockets are machined for and include a captive Torrington thrust bearing



Stock Length Part No.	.005" Shorter Part No.	Description	Chain	Torrington
73233	73333	SB Chevy LS-1/LS-6 w/ Torrington Bearing and 9 Keyway Crankshaft Sprocket	76233	42419
73234	73334	SB Chevy LS-2 w/ Torrington Bearing and 9 Keyway Crankshaft Sprocket	76233	42419
73235	-----	SB Chevy LS-3 Single Bolt Cam w/ Torrington Bearing and 9 Keyway Crankshaft Sprocket	76233	42419
73236	-----	SB Chevy LS-3 Three Bolt Cam w/ Torrington Bearing and 9 Keyway Crankshaft Sprocket	76233	42419

Chrysler/Dodge Hemi 5.7L/6.1L

Billet Steel Sprockets & Double Roller Chain

- ▶ Fully machined billet steel camshaft & crankshaft sprockets
- ▶ Nine keyway crankshaft sprocket enabling either 0°, or +/- 2°, 4°, 6°, 8° of timing
- ▶ Also includes offset cam bushings for 0°, or +/- 2°, 4°, 6° of timing when using the factory ECM computers
- ▶ Roller chain designed with .250" diameter rollers
- ▶ Available with or without a captive Torrington thrust bearing

Part numbers 73205 and 73206 are compatible with the following engines: Chrysler 5.7L 2004-08, Chrysler 6.1L 2006-10, Dodge 5.7L 2005-08, Dodge 6.1L 2006-10, and Dodge Truck 5.7L 2003-08.



Part No.	Description	Center-to-Center	Chain	Torrington
73205	Chrysler/Dodge Hemi 5.7L/6.1L w/ 9 Keyway Crankshaft Sprocket	Stock	76205	-----
73206	Chrysler/Dodge Hemi 5.7L/6.1L w/ Torrington Bearing and 9 Keyway Crankshaft Sprocket	Stock	76205	42419

PRO-FLO OIL PUMPS

Pro-Flo Oil Pumps

- ▶ Chevrolet LS Series
- ▶ Ford Modular 4.6L
- ▶ Chrysler Hemi 5.7L / 6.1L

These oil pumps are engineered to provide optimum performance and reliability, Manley proudly offers Melling's select performance series of oil pumps and deliver the proper oil volume and pressure with minimum parasitic horsepower loss, cavitation and oil aeration.

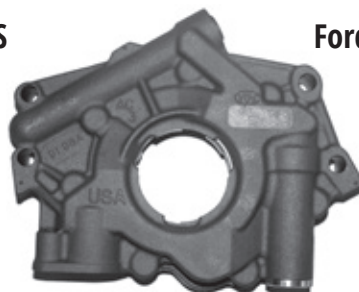
Part No.	Engine Application	Features
CHEVY LS SERIES		
71295	Standard volume	Hard-coat anodized CNC machined aluminum housing with a phosphate coated CNC machined cast iron cover for improved oil pump performance and durability. Pump is supplied with a high pressure by-pass spring already installed providing a 10% increase in pressure over stock. Additional o-rings are also provided.
71296	18% increased volume over stock	Hard-coat anodized CNC machined aluminum housing with a phosphate coated CNC machined cast iron cover for improved oil pump performance and durability. Pump is supplied with a high pressure by-pass spring already installed and also includes a stock pressure spring. Additional o-rings are also provided.
FORD MODULAR 4.6L (4 Valve)		
71227	8% increased volume over stock	4.6L 1996-2004 DOHC, Hard-Coat Anodized Aluminum Body; Cast iron cover; Chrome Moly Billet Rotors. Uses stock 15/16" bolt on screen.
CHRYSLER HEMI 5.7L / 6.1L		
71342	Standard 6.1L volume	Hard-Coat anodized aluminum body with a cast iron phosphate coated cover for improved oil pump performance and durability. Adjustable by-pass pressure of 50 PSI, 60 PSI and 65 PSI with supplied pressure springs.



Chevy LS



Ford Modular



Chrysler Hemi

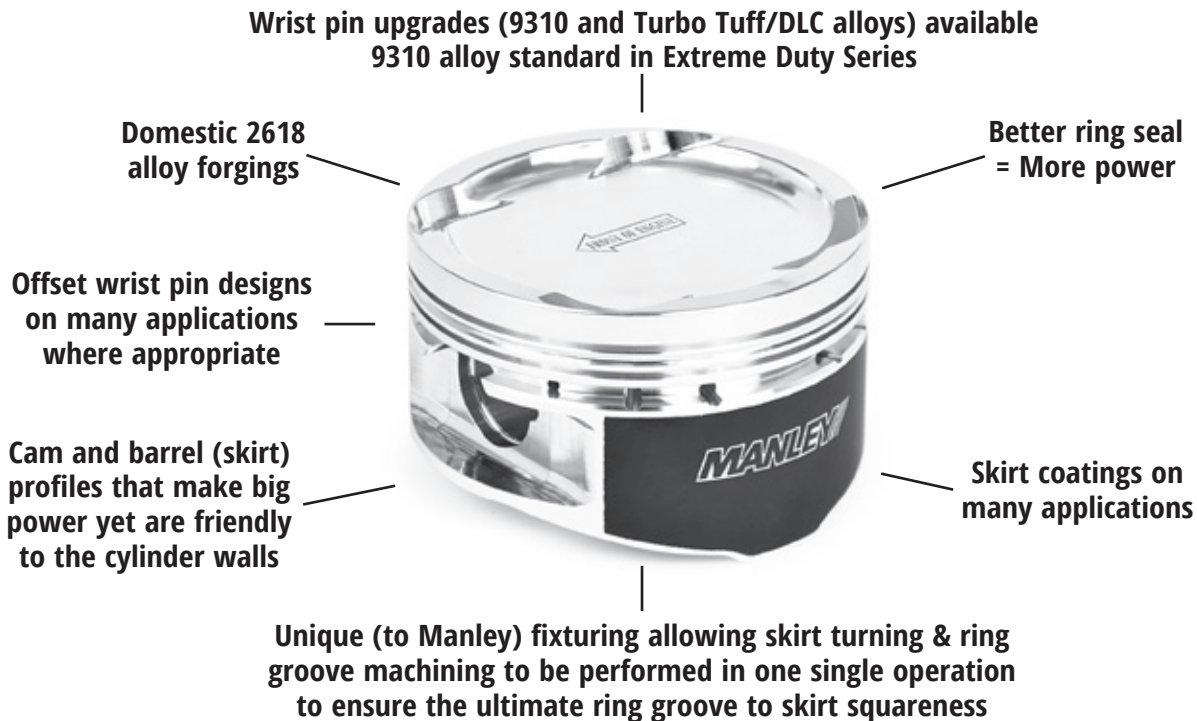
Manley Performance

...Platinum Series Pistons

“Powers The Winners”

The secret is out...

Professional engine builders and elite tuners around the world are running Manley pistons for some very good reasons.



PISTONS, RINGS, & PINS

- **QUALITY**
- **PERFORMANCE**
- **VALUE**

The best of the best
choose Manley pistons



Danzio Performance relies on Manley pistons

PLATINUM SERIES PISTONS

Small Block Chevrolet

2 Barrel Class

4" Bore Flat Top 23° Head

- ▶ 2618 high strength material
- ▶ Perfect ring groove to skirt squareness
- ▶ Round wire locks included
- ▶ Pressure balance groove
- ▶ Semi-banded skirt for improved skirt stability
- ▶ 2.300" x .095" wall Premium Chrome Moly pin
- ▶ .130" wall pin upgrade also available P/N 42242



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets	
							Ductile Iron Top Rings	Gapless® Top Rings
1/16" x 1/16" x 3/16" RINGS								
590030-8	4.030"	5.700"	3.480"-3.500"	1.550"	438	510	46353-8	46353GT-8
590035-8	4.035"	5.700"	3.480"-3.500"	1.550"	441	513	46355-8	46355GT-8
590040-8	4.040"	5.700"	3.480"-3.500"	1.550"	443	515	46354-8	46354GT-8
590130-8	4.030"	6.000"	3.480"-3.500"	1.250"	399	471	46353-8	46353GT-8
590135-8	4.035"	6.000"	3.480"-3.500"	1.250"	400	472	46355-8	46355GT-8
590140-8	4.040"	6.000"	3.480"-3.500"	1.250"	401	473	46354-8	46354GT-8
The following pistons will include groove lock spacer 462482								
590230-8	4.030"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	369	441	46353-8	46353GT-8
590235-8	4.035"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	370	442	46355-8	46355GT-8
590240-8	4.040"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	371	443	46354-8	46354GT-8
Gas Ported .043" x .043" x 3mm RINGS								
591030-8	4.030"	5.700"	3.480"-3.500"	1.550"	438	510	46213-8	46213GT-8
591035-8	4.035"	5.700"	3.480"-3.500"	1.550"	440	512	46215-8	46215GT-8
591040-8	4.040"	5.700"	3.480"-3.500"	1.550"	442	514	46214-8	46214GT-8
591130-8	4.030"	6.000"	3.480"-3.500"	1.250"	400	472	46213-8	46213GT-8
591135-8	4.035"	6.000"	3.480"-3.500"	1.250"	401	473	46215-8	46215GT-8
591140-8	4.040"	6.000"	3.480"-3.500"	1.250"	402	474	46214-8	46214GT-8
591230-8	4.030"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	380	452	46213-8	46213GT-8
591235-8	4.035"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	382	454	46215-8	46215GT-8
591240-8	4.040"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	384	456	46214-8	46214GT-8
The following pistons will include groove lock spacer 462483								
591330-8	4.030"	6.200"	3.480"-3.500"	1.050"	367	439	46213-8	46213GT-8
591335-8	4.035"	6.200"	3.480"-3.500"	1.050"	368	440	46215-8	46215GT-8
591340-8	4.040"	6.200"	3.480"-3.500"	1.050"	369	441	46214-8	46214GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
 1/16" x 3/16" Top: .183" 2nd: .183" Oil: .183" .043" x 3mm Top: .160" 2nd: .165" Oil: .145"



Common Features

- Dome Volume: -2.5cc
- Crown Thickness: .155"
- Compression Ratio: 10.6:1 w/ 64cc & 3.48" Stroke
- Top Ring: 1/16" or .043" Gas Ported, .155" down
- Second Ring: 1/16" or .043"
- Oil Ring: 3/16" or 3mm
- Valve Notches: .210" Int., .150" Exh.
- Maximum Fly Cut: .270" Int., .170" Exh.
- Max. Valve Sizes: 2.125" Int., 1.650" Exh.
- Valve Angle: 22°
- Pin Included: Premium Chrome Moly P/N 42241 (.095" wall, 72 grams, 2.300" long, .927" dia.)
- Round Wire Locks: P/N 42262 - .061" wide
- Recommended
- Piston Clearance: .005" measured 1.100" from bottom of the oil ring



Note: Compression ratios are calculated at .005" deck clearance, a 4.060" head gasket ID with a .040" compressed thickness

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PISTONS, RINGS, & PINS

PLATINUM SERIES PISTONS

Small Block Chevrolet

4 Barrel Class

4" Bore Flat Top 23° Head

- ▶ 2618 high strength material
- ▶ Lightweight design
- ▶ Slightly thicker deck (.185") for higher horsepower applications
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ Round wire locks included
- ▶ Modified full banded skirt design for increased skirt stability
- ▶ 2.300" x .130" wall Premium Chrome Moly pin
- ▶ .150" wall pin upgrade also available P/N 42442



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets Ductile Iron Top Rings	Piston Ring Sets Gapless® Top Rings
1/16" x 1/16" x 3/16" RINGS								
590500-8	4.000"	5.700"	3.480"-3.500"	1.550"	458	553	46350-8	46350GT-8
590530-8*	4.030"	5.700"	3.480"-3.500"	1.550"	458	553	46353-8	46353GT-8
590535-8*	4.035"	5.700"	3.480"-3.500"	1.550"	459	554	46355-8	46355GT-8
590540-8*	4.040"	5.700"	3.480"-3.500"	1.550"	460	555	46354-8	46354GT-8
590545-8*	4.045"	5.700"	3.480"-3.500"	1.550"	465	560	46354-8	46354GT-8
590560-8*	4.060"	5.700"	3.480"-3.500"	1.550"	470	565	46356-8	46356GT-8
590565-8*	4.065"	5.700"	3.480"-3.500"	1.550"	470	565	46356-8	46356GT-8
590730-8	4.030"	5.700"	3.750"	1.425"	438	533	46353-8	46353GT-8
590630-8	4.030"	6.000"	3.480"-3.500"	1.250"	415	510	46353-8	46353GT-8
590635-8	4.035"	6.000"	3.480"-3.500"	1.250"	416	511	46355-8	46355GT-8
590640-8	4.040"	6.000"	3.480"-3.500"	1.250"	418	513	46354-8	46354GT-8
590660-8	4.060"	6.000"	3.480"-3.500"	1.250"	427	522	46356-8	46356GT-8
The following pistons will include groove lock spacer 462482								
590830-8	4.030"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	399	494	46353-8	46353GT-8
590835-8	4.035"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	400	495	46355-8	46355GT-8
590840-8	4.040"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	401	496	46354-8	46354GT-8
590860-8	4.060"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	411	506	46356-8	46356GT-8
Gas Ported .043" x .043" x 3mm RINGS								
591530-8*	4.030"	5.700"	3.480"-3.500"	1.550"	457	552	46213-8	46213GT-8
591535-8*	4.035"	5.700"	3.480"-3.500"	1.550"	459	554	46215-8	46215GT-8
591540-8*	4.040"	5.700"	3.480"-3.500"	1.550"	460	555	46214-8	46214GT-8
591545-8*	4.045"	5.700"	3.480"-3.500"	1.550"	463	558	46214-8	46214GT-8
591550-8*	4.050"	5.700"	3.480"-3.500"	1.550"	464	559	46217-8	-----
591555-8*	4.055"	5.700"	3.480"-3.500"	1.550"	465	560	46217-8	-----
591560-8*	4.060"	5.700"	3.480"-3.500"	1.550"	470	565	46216-8	46216GT-8
591565-8*	4.065"	5.700"	3.480"-3.500"	1.550"	472	567	46216-8	46216GT-8
591630-8	4.030"	6.000"	3.480"-3.500"	1.250"	415	510	46213-8	46213GT-8
591635-8	4.035"	6.000"	3.480"-3.500"	1.250"	416	511	46215-8	46215GT-8
591640-8	4.040"	6.000"	3.480"-3.500"	1.250"	418	513	46214-8	46214GT-8
591660-8	4.060"	6.000"	3.480"-3.500"	1.250"	426	521	46216-8	46216GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
 1/16" x 3/16" Top: .183" 2nd: .183" Oil: .183" .043" x 3mm Top: .160" 2nd: .165" Oil: .145"

*Approved for Stafford Motor Speedway, add SMS after the piston part number.

Common Features

- Dome Volume: -4.0cc
- Crown Thickness: .185"
- Compression Ratio: 10.4:1 w/ 64cc & 3.48" Stroke
- Top Ring: 1/16" or .043" Gas Ported, .185" down
- Second Ring: 1/16" or .043"
- Oil Ring: 3/16" or 3mm
- Valve Notches: .300" Int., .190" Exh.
- Maximum Fly Cut: .360" Int., .260" Exh.
- Max. Valve Sizes: 2.125" Int., 1.650" Exh.
- Valve Angle: 22°
- Pin Included: Premium Chrome Moly P/N 42242 (.130" wall, 95 grams, 2.300" long, .927" dia.)
- Round Wire Locks: P/N 42262 - .061" wide
- Recommended Piston Clearance: .005" measured 1.100" from bottom of the oil ring

Note: Compression ratios are calculated at .005" deck clearance, a 4.060" head gasket ID with a .040" compressed thickness

SEE PAGE 131 & 132 FOR CUSTOM PISTONS



PISTONS, RINGS, & PINS

Note: New part numbers are **BOLD & ITALICIZED**



PLATINUM SERIES PISTONS

Small Block Chevrolet

4" Bore Dome

For All 23° Cylinder Heads

- ▶ 2618 high strength material lightweight design
- ▶ Thick deck for high horsepower applications
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ .043", .043", 3.0mm ring package
- ▶ Lateral Gas Ports
- ▶ Modified full banded skirt design for increased skirt stability
- ▶ 2.300" x .150" wall Premium Chrome Moly pin included



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Dome Volume	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets	
								Ductile Iron Top Rings	Premium Steel Top Rings
591930-8	4.030"	6.000"	3.750"	1.125"	11cc	443	553	46223-8	46223ST-8
591935-8	4.035"	6.000"	3.750"	1.125"	11cc	445	555	46225-8	46225ST-8
591940-8	4.040"	6.000"	3.750"	1.125"	11cc	447	557	46224-8	46224ST-8
591960-8	4.060"	6.000"	3.750"	1.125"	11cc	453	563	46226-8	46226ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
 Top: .160" 2nd: .165" Oil: .145"

Common Features

- | | |
|---|--|
| Crown Thickness: .200" | Max Valve Sizes: 2.125" Int., 1.650" Exh. |
| Compression Ratio: 14.9:1 w/58cc, 13.5:1 w/64cc & 11.5:1 w/76cc | Valve Angle: 22° |
| Top Ring: .043" Gas Ported .225" down | Pin Included: Premium Chrome Moly P/N 42442 (.150" wall, 110 grams, 2.300" long, .927" dia.) |
| Second Ring: .043" taper face | Round Wire Locks: P/N 42262 - .061" wide |
| Oil Ring: 3mm | Recommended |
| Valve Notches: .300" Int., .190" Exh. | Piston Clearance: .005" measured 1.100" from bottom of the oil ring |
| Maximum Fly Cut: .360" Int., .260" Exh. | |

Note: Compression ratios are calculated at .005" deck clearance, a 4.060" head gasket ID with a .040" compressed thickness

PISTONS, RINGS, & PINS

Small Block Chevrolet

4.125" Bore +4cc Dome & -20cc Dish

For All 23° Cylinder Heads

- ▶ 2618 high strength material lightweight design
- ▶ Thick deck for high horsepower applications
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ Modified full banded skirt design for increased skirt stability
- ▶ 2.450" x .150" wall Premium Chrome Moly pin included



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Dome Volume	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets	
								Ductile Iron Top Rings	Gapless® Top Rings
1/16" x 1/16" x 3/16" RINGS									
593900-8	4.125"	6.000"/6.125"	4.000"/3.750"	1.000"	-20cc	399	516	46160-8	46160GT-8
593930-8	4.155"	6.000"/6.125"	4.000"/3.750"	1.000"	-20cc	401	518	46163-8	46163GT-8
Gas Ported .043" x .043" x 3mm RINGS									
593800-8	4.125"	6.000"/6.125"	4.000"/3.750"	1.000"	4cc	440	557	46260-8	46260GT-8
593830-8	4.155"	6.000"/6.125"	4.000"/3.750"	1.000"	4cc	442	559	46263-8	46263GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
 1/16" x 3/16" Top: .183" 2nd: .183" Oil: .183" .043" x 3mm Top: .160" 2nd: .165" Oil: .145"

Common Features

- | | |
|--|--|
| Crown Thickness: .200" | Max. Valve Sizes: 2.125" Int., 1.650" Exh. |
| Compression Ratio: 13.5:1 w/64cc & 4" Stroke +4cc Dome; 10.3:1 w/64cc & 4" Stroke -20cc Dish | Valve Notches: 300" Int., .230" Exh., -20cc Dish; 310" Int., .200" Exh. +4cc Dome |
| Top Ring: 1/16" .175 down -20cc Dish; .043" Gas Ported .200" down +4cc Dome | Valve Angle: 22° |
| Second Ring: 1/16" or .043" | Pin Included: Premium Chrome Moly P/N 42229 (.150" wall, 117 grams, 2.450" long, .927" dia.) |
| Oil Ring: 3/16" or 3mm | Round Wire Locks: P/N 42262 - .061" wide |
| Maximum Fly Cut: .360" Int., .260" Exh. | Recommended |
| | Piston Clearance: .005" measured 1.100" from bottom of the oil ring |

Note: Compression ratios are calculated at .005" deck clearance, a

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Small Block Chevrolet LS Series

LS-1/LS-2/LS-6, LS-3/L-92

Stock 3.622" Stroke Pistons

- ▶ 2618 high strength material lightweight design
- ▶ Offset wrist pin design
- ▶ Machined for reluctor wheel clearance
- ▶ Round wire locks
- ▶ 1.5, 1.5, 3mm ring package
- ▶ Forced pin oiling, pressure balance groove and precision pin fitting
- ▶ Premium Chrome Moly wrist pins (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42542



Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Pin Diam	Piston Wt / Gms	Valve Pocket Type	Valve Pocket Depth Int. / Exh.	Piston Ring Sets — Ductile Iron Top Rings	Piston Ring Sets — Premium Steel Top Rings
-4cc FLAT TOP											
592007C-8	-----	3.905"	6.098"	3.622"	1.340"	24mm/.945"	428	LS-1,2,6	.175"/.150"	46107-8	46107ST-8
592107C-8	592107CE-8	3.905"	6.125"	3.622"	1.313"	.927"	425	LS-1,2,6	.175"/.150"	46107-8	46107ST-8
592110C-8	592110CE-8	3.910"	6.125"	3.622"	1.313"	.927"	427	LS-1,2,6	.175"/.150"	46107-8	46107ST-8
592501C-8	592501CE-8	4.001"	6.125"	3.622"	1.304"	.927"	438	LS-1,2,3,6,92	.185"/.130"	46110-8	46110ST-8
592505C-8	592505CE-8	4.005"	6.125"	3.622"	1.304"	.927"	440	LS-1,2,3,6,92	.185"/.130"	46110-8	46110ST-8
592510C-8	592510CE-8	4.010"	6.125"	3.622"	1.304"	.927"	442	LS-1,2,3,6,92	.185"/.130"	46111-8	46111ST-8
592530C-8	592530CE-8	4.030"	6.125"	3.622"	1.304"	.927"	449	LS-1,2,3,6,92	.185"/.130"	46113-8	46113ST-8
592565C-8	592565CE-8	4.065"	6.125"	3.622"	1.304"	.927"	453	LS-1,2,3,6,92	.185"/.130"	46116-8	46116ST-8
592570C-8	592570CE-8	4.070"	6.125"	3.622"	1.304"	.927"	455	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8
592575C-8	592575CE-8	4.075"	6.125"	3.622"	1.304"	.927"	457	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8
592580C-8	592580CE-8	4.080"	6.125"	3.622"	1.304"	.927"	459	LS-1,2,3,6,92	.185"/.130"	46118-8	46118ST-8
-10cc DISH											
596107C-8	596107CE-8	3.905"	6.125"	3.622"	1.304"	.927"	425	LS-1,2,3,6,92	.185"/.130"	46107-8	46107ST-8
596105C-8	596105CE-8	4.005"	6.125"	3.622"	1.304"	.927"	440	LS-1,2,3,6,92	.185"/.130"	46110-8	46110ST-8
596110C-8	596110CE-8	4.010"	6.125"	3.622"	1.304"	.927"	442	LS-1,2,3,6,92	.185"/.130"	46111-8	46111ST-8
596130C-8	596130CE-8	4.030"	6.125"	3.622"	1.304"	.927"	449	LS-1,2,3,6,92	.185"/.130"	46113-8	46113ST-8
596165C-8	596165CE-8	4.065"	6.125"	3.622"	1.304"	.927"	453	LS-1,2,3,6,92	.185"/.130"	46116-8	46116ST-8
596170C-8	596170CE-8	4.070"	6.125"	3.622"	1.304"	.927"	455	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8
596175C-8	596175CE-8	4.075"	6.125"	3.622"	1.304"	.927"	457	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8
596180C-8	596180CE-8	4.080"	6.125"	3.622"	1.304"	.927"	459	LS-1,2,3,6,92	.185"/.130"	46118-8	46118ST-8
-18cc DISH											
596907C-8	596907CE-8	3.905"	6.125"	3.622"	1.304"	.927"	415	LS-1,2,3,6,92	.175" Trough	46107-8	46107ST-8
596905C-8	596905CE-8	4.005"	6.125"	3.622"	1.304"	.927"	432	LS-1,2,3,6,92	.175" Trough	46110-8	46110ST-8
596965C-8	596965CE-8	4.065"	6.125"	3.622"	1.304"	.927"	445	LS-1,2,3,6,92	.175" Trough	46116-8	46116ST-8
596970C-8	596970CE-8	4.070"	6.125"	3.622"	1.304"	.927"	447	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8
596975C-8	596975CE-8	4.075"	6.125"	3.622"	1.304"	.927"	449	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8
596980C-8	596980CE-8	4.080"	6.125"	3.622"	1.304"	.927"	451	LS-1,2,3,6,92	.175" Trough	46118-8	46118ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness Note: Gapless® Top Ring Sets are also available
 Top: .151" 2nd: .165" Oil: .145" See page 133

Common Features

Crown Thickness: .200"
 Top Ring: 1.5mm .225" down 3.905"-3.910" bore Flat Top
 1.5mm .250" down for all others
 Second Ring: 1.5mm
 Oil Ring: 3mm
 Max. Valve Sizes: 2.125" Int., 1.625" Exh. for .175"/.150" depth,
 2.165" Int., 1.625" Exh. for .185"/.130" depth
 2.165" Int., 1.625" Exh. for .175" Trough depth

Extreme Duty Series: 9310 Alloy P/N 42542
 (2.300" x .210" wall, .927" dia., 139 grams)
 Round Wire Locks: P/N 42262 - .061" wide
 Recommended
 Piston Clearance: .0045" measured 1.100" from bottom of the oil ring

Pin Included: Standard Series: Premium Chrome Moly P/N 42218 included with 24mm/.945" Pin Diameter
 (2.300" x .120" wall, 24mm/.945" dia., 90 grams)
 Standard Series: Premium Chrome Moly P/N 42442 included with the .927" Pin Diameter
 (2.300" x .150" wall, .927" dia., 110 grams)

Chevy LS 3.622" Stroke Compression Ratio Charts

Bore	Stroke	Cylinder Head (cc)			
		64	66	70	72
-4cc FLAT TOP					
3.905	3.622	10.2	10.0	9.5	9.3
3.910	3.622	10.3	10.1	9.7	9.5
4.001	3.622	10.6	10.4	9.8	9.6
4.005	3.622	10.6	10.4	9.8	9.6
4.010	3.622	10.7	10.5	9.9	9.7
4.030	3.622	10.8	10.6	10.1	9.9
4.065	3.622	11.0	10.7	10.2	10.0
4.070	3.622	11.1	10.8	10.3	10.1
4.075	3.622	11.2	10.9	10.4	10.2
4.080	3.622	11.3	11.0	10.5	10.3

Bore	Stroke	Cylinder Head (cc)			
		64	66	70	72
-10cc DISH					
3.905	3.622	9.6	9.4	9.0	8.8
4.005	3.622	10.0	9.8	9.4	9.2
4.010	3.622	10.1	9.9	9.5	9.3
4.030	3.622	10.2	9.9	9.5	9.3
4.065	3.622	10.3	10.1	9.7	9.5
4.070	3.622	10.3	10.1	9.7	9.5
4.075	3.622	10.4	10.2	9.8	9.6
4.080	3.622	10.5	10.3	9.9	9.6

Bore	Stroke	Cylinder Head (cc)			
		64	66	70	72
-18cc DISH					
3.905	3.622	8.8	8.7	8.3	8.2
4.005	3.622	9.2	9.0	8.7	8.5
4.065	3.622	9.5	9.3	9.0	8.8
4.070	3.622	9.6	9.4	9.1	8.9
4.075	3.622	9.7	9.5	9.2	9.0
4.080	3.622	9.8	9.6	9.3	9.1

Compression ratios are calculated at a .000" deck clearance, a 9.240" deck height, and a .042" thick compressed head gasket

SEE PAGE 131 & 132 FOR CUSTOM PISTONS



PLATINUM SERIES PISTONS

Small Block Chevrolet LS Series

**LS-1/LS-2/LS-6, LS-3/L-92, LS-7, LSX, Dart LS Next
4.000" Stroke Pistons**

- ▶ 2618 high strength material lightweight design
- ▶ Offset wrist pin design
- ▶ Machined for reductor wheel clearance
- ▶ Round wire locks
- ▶ 1.5, 1.5, 3mm ring package
- ▶ Forced pin oiling, pressure balance groove and precision pin fitting
- ▶ Premium Chrome Moly wrist pins (Standard Series) included
- ▶ 9310 alloy pin (Extreme Duty Series) included: P/N 42542 2.300" x .210" wall (3.905"-4.080" bores) and P/N 42528 2.500" x .210" wall (4.125"-4.185" bores)



Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Pin Diam	Piston Wt / Gms	Valve Pocket Type	Valve Pocket Depth Int. / Exh.	—Piston Ring Sets—	
										Ductile Iron Top Rings	Premium Steel Top Rings
-4cc FLAT TOP											
592207C-8	592207CE-8	3.905"	6.125"	4.000"	1.115"	.927"	391	LS-1,2,6	.175"/.150"	46107-8	46107ST-8
592605C-8	592605CE-8	4.005"	6.125"	4.000"	1.115"	.927"	407	LS-1,2,3,6,92	.185"/.130"	46110-8	46110ST-8
592610C-8	592610CE-8	4.010"	6.125"	4.000"	1.115"	.927"	409	LS-1,2,3,6,92	.185"/.130"	46111-8	46111ST-8
592630C-8	592630CE-8	4.030"	6.125"	4.000"	1.115"	.927"	418	LS-1,2,3,6,92	.185"/.130"	46113-8	46113ST-8
592665C-8	592665CE-8	4.065"	6.125"	4.000"	1.115"	.927"	420	LS-1,2,3,6,92	.185"/.130"	46116-8	46116ST-8
592670C-8	592670CE-8	4.070"	6.125"	4.000"	1.115"	.927"	423	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8
592675C-8	592675CE-8	4.075"	6.125"	4.000"	1.115"	.927"	425	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8
592680C-8	592680CE-8	4.080"	6.125"	4.000"	1.115"	.927"	427	LS-1,2,3,6,92	.185"/.130"	46118-8	46118ST-8
-5cc FLAT TOP											
592300C-8	592300CE-8	4.125"	6.125"	4.000"	1.115"	.927"	432	LS-1,2,3,6,7,92	.225" Trough	46360-8	46360ST-8
592305C-8	592305CE-8	4.130"	6.125"	4.000"	1.115"	.927"	434	LS-1,2,3,6,7,92	.225" Trough	46361-8	46361ST-8
592310C-8	592310CE-8	4.135"	6.125"	4.000"	1.115"	.927"	436	LS-1,2,3,6,7,92	.225" Trough	46362-8	46362ST-8
-10cc DISH											
592701C-8	592701CE-8	4.001"	6.125"	4.000"	1.115"	.927"	403	LS-1,2,3,6,92	.185"/.130"	46110-8	46110ST-8
592705C-8	592705CE-8	4.005"	6.125"	4.000"	1.115"	.927"	406	LS-1,2,3,6,92	.185"/.130"	46110-8	46110ST-8
592730C-8	592730CE-8	4.030"	6.125"	4.000"	1.115"	.927"	412	LS-1,2,3,6,92	.185"/.130"	46113-8	46113ST-8
592765C-8	592765CE-8	4.065"	6.125"	4.000"	1.115"	.927"	418	LS-1,2,3,6,92	.185"/.130"	46116-8	46116ST-8
592770C-8	592770CE-8	4.070"	6.125"	4.000"	1.115"	.927"	420	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8
592775C-8	592775CE-8	4.075"	6.125"	4.000"	1.115"	.927"	422	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8
592780C-8	592780CE-8	4.080"	6.125"	4.000"	1.115"	.927"	424	LS-1,2,3,6,92	.185"/.130"	46118-8	46118ST-8
-11cc DISH											
592400C-8	592400CE-8	4.125"	6.125"	4.000"	1.115"	.927"	432	LS-1,2,3,6,7,92	.225" Trough	46360-8	46360ST-8
592405C-8	592405CE-8	4.130"	6.125"	4.000"	1.115"	.927"	434	LS-1,2,3,6,7,92	.225" Trough	46361-8	46361ST-8
592410C-8	592410CE-8	4.135"	6.125"	4.000"	1.115"	.927"	436	LS-1,2,3,6,7,92	.225" Trough	46362-8	46362ST-8
592440C-8*	592440CE-8*	4.165"	6.125"	4.000"	1.115"	.927"	453	LS-1,2,3,6,7,92	.225" Trough	46364-8	46364ST-8
592460C-8*	592460CE-8*	4.185"	6.125"	4.000"	1.115"	.927"	461	LS-1,2,3,6,7,92	.225" Trough	46366-8	46366ST-8

* These large bore pistons are only for the LSX and Dart LS Next

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness: Note: Gapless® Top Ring Sets are also available
Top: .151" 2nd: .165" Oil: .145" See pages 133 and 134

Common Features

for All Pistons on Page 106 & 107

- Crown Thickness: .200"
- Top Ring: 1.5mm .225" down, Flat Top & -10cc/-11cc Dishes
.250" down, -18cc & -29cc Dishes
- Second Ring: 1.5mm
- Oil Ring: 3mm
- Max. Valve Sizes: 2.125" Int., 1.625" Exh. for .175"/.150" depth
2.165" Int., 1.625" Exh. for .185"/.130" depth
2.205" Int., 1.625" Exh. for .225" Trough depth
- Round Wire Locks: P/N 42262 - .061" wide
- Recommended
Piston Clearance: .0045" measured 1.100" from bottom of the oil ring
- Standard Series: Premium Chrome Moly P/N 42442 included with the 3.905"-4.080" bores (2.300" x .150" wall, .927" dia., 110 grams)

- Standard Series: Premium Chrome Moly P/N 42428 included with the 4.125"-4.185" bores
- Pin Included: (2.500" x .150" wall, .927" dia., 118 grams)
Extreme Duty Series: 9310 Alloy P/N 42542 included with the 3.905"-4.080" bores (2.300" x .210" wall, .927" dia., 139 grams)
Extreme Duty Series: 9310 Alloy P/N 42528 included with the 4.125"-4.185" bores (2.500" x .210" wall, .927" dia., 149 grams)

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

SEE PAGE 107 FOR COMPRESSION RATIO CHARTS

PLATINUM SERIES PISTONS

Small Block Chevrolet LS Series

LS-1/LS-2/LS-6, LS-3/L-92, LS-7, LSX, Dart LS Next

4.000" Stroke Pistons

- ▶ 2618 high strength material lightweight design
- ▶ Offset wrist pin design
- ▶ Machined for reductor wheel clearance
- ▶ Round wire locks
- ▶ 1.5, 1.5, 3mm ring package
- ▶ Forced pin oiling, pressure balance groove and precision pin fitting
- ▶ Premium Chrome Moly wrist pins (Standard Series) included
- ▶ 9310 alloy pin (Extreme Duty Series) included: P/N 42542 2.300" x .210" wall (3.905"-4.080" bores) and P/N 42528 2.500" x .210" wall (4.125"-4.185" bores)



Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Pin Diam	Piston Wt / Gms	Valve Pocket Type	Valve Pocket Depth Int. / Exh.	Piston Ring Sets	
										Ductile Iron Top Rings	Premium Steel Top Rings
-18cc DISH											
596207C-8	596207CE-8	3.905"	6.125"	4.000"	1.115"	.927"	379	LS-1,2,3,6,92	.175" Trough	46107-8	46107ST-8
596205C-8	596205CE-8	4.005"	6.125"	4.000"	1.115"	.927"	399	LS-1,2,3,6,92	.175" Trough	46110-8	46110ST-8
596230C-8	596230CE-8	4.030"	6.125"	4.000"	1.115"	.927"	408	LS-1,2,3,6,92	.175" Trough	46113-8	46113ST-8
596265C-8	596265CE-8	4.065"	6.125"	4.000"	1.115"	.927"	414	LS-1,2,3,6,92	.175" Trough	46116-8	46116ST-8
596270C-8	596270CE-8	4.070"	6.125"	4.000"	1.115"	.927"	415	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8
596275C-8	596275CE-8	4.075"	6.125"	4.000"	1.115"	.927"	417	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8
596280C-8	596280CE-8	4.080"	6.125"	4.000"	1.115"	.927"	419	LS-1,2,3,6,92	.175" Trough	46118-8	46118ST-8
-29cc DISH											
596300C-8	596300CE-8	4.125"	6.125"	4.000"	1.115"	.927"	437	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8
596305C-8	596305CE-8	4.130"	6.125"	4.000"	1.115"	.927"	439	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8
596310C-8	596310CE-8	4.135"	6.125"	4.000"	1.115"	.927"	441	LS-1,2,3,6,7,92	.175" Trough	46362-8	46362ST-8
596340C-8*	596340CE-8*	4.165"	6.125"	4.000"	1.115"	.927"	460	LS-1,2,3,6,7,92	.175" Trough	46364-8	46364ST-8
596360C-8*	596360CE-8*	4.185"	6.125"	4.000"	1.115"	.927"	468	LS-1,2,3,6,7,92	.175" Trough	46366-8	46366ST-8
-29cc DISH											
592807C-8	592807CE-8	3.905"	6.125"	4.000"	1.115"	.927"	379	LS-1,2,3,6,92	.175" Trough	46107-8	46107ST-8
592801C-8	592801CE-8	4.001"	6.125"	4.000"	1.115"	.927"	395	LS-1,2,3,6,92	.175" Trough	46110-8	46110ST-8
592805C-8	592805CE-8	4.005"	6.125"	4.000"	1.115"	.927"	397	LS-1,2,3,6,92	.175" Trough	46110-8	46110ST-8
592830C-8	592830CE-8	4.030"	6.125"	4.000"	1.115"	.927"	405	LS-1,2,3,6,92	.175" Trough	46113-8	46113ST-8
592865C-8	592865CE-8	4.065"	6.125"	4.000"	1.115"	.927"	411	LS-1,2,3,6,92	.175" Trough	46116-8	46116ST-8
592870C-8	592870CE-8	4.070"	6.125"	4.000"	1.115"	.927"	413	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8
592875C-8	592875CE-8	4.075"	6.125"	4.000"	1.115"	.927"	415	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8
592880C-8	592880CE-8	4.080"	6.125"	4.000"	1.115"	.927"	417	LS-1,2,3,6,92	.175" Trough	46118-8	46118ST-8
-29cc DISH											
592900C-8	592900CE-8	4.125"	6.125"	4.000"	1.115"	.927"	430	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8
592905C-8	592905CE-8	4.130"	6.125"	4.000"	1.115"	.927"	434	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8
592910C-8	592910CE-8	4.135"	6.125"	4.000"	1.115"	.927"	436	LS-1,2,3,6,7,92	.175" Trough	46362-8	46362ST-8
592940C-8*	592940CE-8*	4.165"	6.125"	4.000"	1.115"	.927"	457	LS-1,2,3,6,7,92	.175" Trough	46364-8	46364ST-8
592960C-8*	592960CE-8*	4.185"	6.125"	4.000"	1.115"	.927"	463	LS-1,2,3,6,7,92	.175" Trough	46366-8	46366ST-8

* These large bore pistons are only for the LSX and Dart LS Next

Chevy LS 4.000" Stroke Compression Ratio Chart

Bore	Stroke	Cylinder Head (cc)			
		64	66	70	72
-4cc & -5cc FLAT TOP					
3.905	4.000	11.2	11.0	10.4	10.2
4.005	4.000	11.7	11.4	10.9	10.7
4.010	4.000	11.7	11.5	11.0	10.7
4.030	4.000	11.9	11.6	11.1	10.9
4.065	4.000	12.1	11.8	11.3	11.0
4.070	4.000	12.1	11.8	11.3	11.1
4.075	4.000	12.2	11.9	11.4	11.2
4.080	4.000	12.3	12.0	11.5	11.3
4.125	4.000	12.3	12.0	11.5	11.3
4.130	4.000	12.4	12.1	11.6	11.4
4.135	4.000	12.5	12.2	11.7	11.5
-10cc & -11cc DISH					
4.001	4.000	10.8	10.6	10.1	9.9
4.005	4.000	10.9	10.7	10.2	10.0
4.030	4.000	11.1	10.8	10.3	10.1
4.065	4.000	11.3	11.0	10.5	10.3
4.070	4.000	11.4	11.1	10.6	10.4
4.075	4.000	11.5	11.2	10.7	10.5
4.080	4.000	11.6	11.3	10.8	10.6
4.125	4.000	11.5	11.3	10.8	10.6
4.130	4.000	11.6	11.4	10.9	10.5
4.135	4.000	11.7	11.5	11.0	10.6
4.165	4.000	11.6	11.3	10.9	10.7
4.185	4.000	11.7	11.4	11.0	10.8
-18cc DISH					
3.905	4.000	9.7	9.5	9.2	9.0
4.005	4.000	10.1	9.9	9.5	9.4
4.030	4.000	10.2	10.0	9.6	9.5
4.065	4.000	10.4	10.2	9.8	9.6
4.070	4.000	10.4	10.2	9.8	9.6
4.075	4.000	10.5	10.3	9.9	9.7
4.080	4.000	10.6	10.4	10.0	9.8
4.125	4.000	10.6	10.4	10.0	9.8
4.130	4.000	10.6	10.4	10.0	9.9
4.135	4.000	10.7	10.5	10.1	10.0
4.165	4.000	10.8	10.6	10.2	10.0
4.185	4.000	10.9	10.6	10.3	10.1
-29cc DISH					
3.905	4.000	8.7	8.5	8.2	8.1
4.001	4.000	9.0	8.8	8.5	8.4
4.005	4.000	9.1	8.9	8.6	8.5
4.030	4.000	9.2	9.0	8.7	8.6
4.065	4.000	9.3	9.1	8.8	8.7
4.070	4.000	9.4	9.2	8.9	8.8
4.075	4.000	9.5	9.3	9.0	8.9
4.080	4.000	9.6	9.4	9.1	9.0
4.125	4.000	9.6	9.4	9.1	9.0
4.130	4.000	9.7	9.5	9.2	9.1
4.135	4.000	9.8	9.6	9.3	9.2
4.165	4.000	9.7	9.6	9.2	9.1
4.185	4.000	9.8	9.6	9.3	9.2

Compression ratios are calculated at 0.00" deck clearance, a 9.240" deck height, and a .042" thick compressed head gasket



PISTONS, RINGS, & PINS

PLATINUM SERIES PISTONS

Small Block Chevrolet LS Series

LS-1/LS-2/LS-6, LS-3/L-92, LS-7 4.100" Stroke Pistons

- ▶ 2618 high strength material lightweight design
- ▶ Machined for reluctor wheel clearance
- ▶ Round wire locks
- ▶ Forced pin oiling, pressure balance groove and precision pin fitting
- ▶ Premium Chrome Moly wrist pins (Standard Series) included
- ▶ 9310 alloy pin (Extreme Duty Series) included: P/N 42542 2.300" x .210" wall (4.005"-4.080" bores) and P/N 42528 2.500" x .210" wall (4.125"-4.130" bores)
- ▶ Offset wrist pin design
- ▶ 1.5, 1.5, 3mm ring package



Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Pin Diam	Piston Wt / Gms	Valve Pocket Type	Valve Pocket Depth Int. / Exh.	Piston Ring Sets Ductile Iron Top Rings	Piston Ring Sets Premium Steel Top Rings
-10cc DISH											
596505C-8	596505CE-8	4.005"	6.125"	4.100"	1.065"	.927"	395	LS-1,2,3,6,92	.185"/.130"	46110-8	46110ST-8
596565C-8	596565CE-8	4.065"	6.125"	4.100"	1.065"	.927"	411	LS-1,2,3,6,92	.185"/.130"	46116-8	46116ST-8
596570C-8	596570CE-8	4.070"	6.125"	4.100"	1.065"	.927"	413	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8
596575C-8	596575CE-8	4.075"	6.125"	4.100"	1.065"	.927"	415	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8
596580C-8	596580CE-8	4.080"	6.125"	4.100"	1.065"	.927"	417	LS-1,2,3,6,92	.185"/.130"	46118-8	46118ST-8
-11cc DISH											
596600C-8	596600CE-8	4.125"	6.125"	4.100"	1.065"	.927"	422	LS-1,2,3,6,7,92	.225" Trough	46360-8	46360ST-8
596605C-8	596605CE-8	4.130"	6.125"	4.100"	1.065"	.927"	424	LS-1,2,3,6,7,92	.225" Trough	46361-8	46361ST-8
596610C-8	596610CE-8	4.135"	6.125"	4.100"	1.065"	.927"	426	LS-1,2,3,6,7,92	.225" Trough	46362-8	46362ST-8
-20cc DISH											
596005C-8	596005CE-8	4.005"	6.125"	4.100"	1.065"	.927"	389	LS-1,2,3,6,92	.175" Trough	46110-8	46110ST-8
596065C-8	596065CE-8	4.065"	6.125"	4.100"	1.065"	.927"	406	LS-1,2,3,6,92	.175" Trough	46116-8	46116ST-8
596070C-8	596070CE-8	4.070"	6.125"	4.100"	1.065"	.927"	409	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8
596075C-8	596075CE-8	4.075"	6.125"	4.100"	1.065"	.927"	411	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8
596080C-8	596080CE-8	4.080"	6.125"	4.100"	1.065"	.927"	413	LS-1,2,3,6,92	.175" Trough	46118-8	46118ST-8
596400C-8	596400CE-8	4.125"	6.125"	4.100"	1.065"	.927"	435	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8
596405C-8	596405CE-8	4.130"	6.125"	4.100"	1.065"	.927"	437	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8
596410C-8	596410CE-8	4.135"	6.125"	4.100"	1.065"	.927"	439	LS-1,2,3,6,7,92	.175" Trough	46362-8	46362ST-8
-31cc DISH											
596705C-8	596705CE-8	4.005"	6.125"	4.100"	1.065"	.927"	398	LS-1,2,3,6,92	.175" Trough	46110-8	46110ST-8
596765C-8	596765CE-8	4.065"	6.125"	4.100"	1.065"	.927"	413	LS-1,2,3,6,92	.175" Trough	46116-8	46116ST-8
596770C-8	596770CE-8	4.070"	6.125"	4.100"	1.065"	.927"	416	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8
596775C-8	596775CE-8	4.075"	6.125"	4.100"	1.065"	.927"	418	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8
596780C-8	596780CE-8	4.080"	6.125"	4.100"	1.065"	.927"	420	LS-1,2,3,6,92	.175" Trough	46118-8	46118ST-8
596800C-8	596800CE-8	4.125"	6.125"	4.100"	1.065"	.927"	428	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8
596805C-8	596805CE-8	4.130"	6.125"	4.100"	1.065"	.927"	430	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8
596810C-8	596810CE-8	4.135"	6.125"	4.100"	1.065"	.927"	432	LS-1,2,3,6,7,92	.175" Trough	46362-8	46362ST-8

Common Features

- Crown Thickness: .200"
- Top Ring: 1.5mm .225" down, -10cc/-11cc Dishes
.250" down, 20cc/-31cc Dishes
- Second Ring: 1.5mm
- Oil Ring: 3mm
- Max. Valve Sizes: 2.165" Int., 1.625" Exh. for .185"/.130" depth
2.165" Int., 1.625" Exh. for .175" Trough depth (4.005-4.080" bore)
2.205" Int., 1.625" Exh. for .175" Trough depth (4.125-4.135" bore)
2.205" Int., 1.625" Exh. for .225" Trough depth

- Round Wire Locks: P/N 42262 - .061" wide
- Recommended Piston Clearance: .0045" measured 1.100" from bottom of the oil ring
- Pin Included: Standard Series: Premium Chrome Moly P/N 42442 included with the 4.005"-4.080" bores (2.300" x .150" wall, .927" dia., 110 grams)
Standard Series: Premium Chrome Moly P/N 42428 included with the 4.125"-4.130" bores (2.500" x .150" wall, .927" dia., 118 grams)
Extreme Duty Series: 9310 Alloy P/N 42542 included with the 4.005"-4.080" bores (2.300" x .210" wall, .927" dia., 139 grams)
Extreme Duty Series: 9310 Alloy P/N 42528 included with the 4.125"-4.130" bores (2.500" x .210" wall, .927" dia., 149 grams)

Chevy LS 4.100" Stroke Compression Ratio Chart

Bore	Stroke	Cylinder Head (cc)			
		64	66	70	72
-10cc & -11cc DISH					
4.005	4.100	11.1	10.9	10.5	10.3
4.065	4.100	11.4	11.2	10.7	10.5
4.070	4.100	11.5	11.3	10.8	10.6
4.075	4.100	11.6	11.4	10.9	10.7
4.080	4.100	11.7	11.5	11.0	10.8
4.125	4.100	11.6	11.4	10.9	10.7
4.130	4.100	11.7	11.5	11.0	10.8
-20cc DISH					
4.005	4.100	10.1	9.9	9.6	9.4
4.065	4.100	10.4	10.2	9.8	9.6
4.070	4.100	10.4	10.2	9.8	9.7
4.075	4.100	10.5	10.3	9.9	9.8
4.080	4.100	10.6	10.4	10.0	9.9
4.125	4.100	10.6	10.4	10.1	9.9
4.130	4.100	10.7	10.5	10.1	9.9

Bore	Stroke	Cylinder Head (cc)			
		64	66	70	72
-31cc DISH					
4.005	4.100	9.1	9.0	8.7	8.5
4.065	4.100	9.3	9.2	8.9	8.7
4.070	4.100	9.4	9.3	9.0	8.8
4.075	4.100	9.5	9.4	9.1	8.9
4.080	4.100	9.6	9.5	9.2	9.0
4.125	4.100	9.6	9.4	9.1	9.0
4.130	4.100	9.7	9.5	9.2	9.1

Compression ratios are calculated at 0.00" deck clearance, a 9.240" deck height, and a .042" thick compressed head gasket

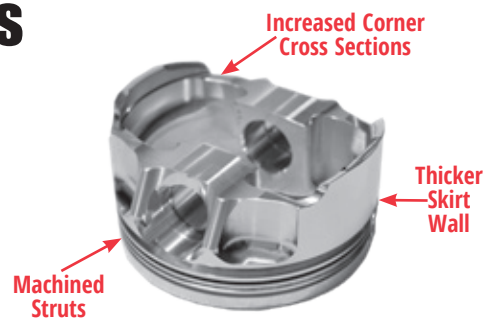
SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Small Block Chevrolet LS Series

Turbo Tuff® Design for 3.622", 4.000" & 4.100" Strokes

- ▶ 2618 high strength material lightweight design
- ▶ Offset wrist pin design
- ▶ Machined for reluctor wheel clearance
- ▶ 1.5, 1.5, 3mm ring package
- ▶ Round wire locks
- ▶ Forced pin oiling, pressure balance groove and precision pin fitting
- ▶ Premium Chrome Moly wrist pins (Standard Series) included
- ▶ 9310 alloy pin (Extreme Duty Series) included: P/N 42542 2.300" x .210" wall (4.005"-4.070" bores) and P/N 42528 2.500" x .210" wall (4.125"-4.185" bores)



Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Pin Diam	Piston Wt / Gms	Valve Pocket Type	Valve Pocket Depth Int. / Exh.	Piston Ring Sets		
										Ductile Iron Top Rings	Premium Steel Top Rings	
3.622" STROKE -4cc FLAT TOP												
562510C-8	562510CE-8	4.010"	6.125"	3.622"	1.304"	.927"	506	LS-1,2,3,6,92	.185"/.130"	46111-8	46111ST-8	
562565C-8	562565CE-8	4.065"	6.125"	3.622"	1.304"	.927"	522	LS-1,2,3,6,92	.185"/.130"	46116-8	46116ST-8	
562570C-8	562570CE-8	4.070"	6.125"	3.622"	1.304"	.927"	523	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8	
4.000" STROKE -18cc DISH												
566205C-8	566205CE-8	4.005"	6.125"	4.000"	1.115"	.927"	453	LS-1,2,3,6,92	.175" Trough	46110-8	46110ST-8	
566265C-8	566265CE-8	4.065"	6.125"	4.000"	1.115"	.927"	470	LS-1,2,3,6,92	.175" Trough	46116-8	46116ST-8	
566270C-8	566270CE-8	4.070"	6.125"	4.000"	1.115"	.927"	471	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8	
566300C-8	566300CE-8	4.125"	6.125"	4.000"	1.115"	.927"	486	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8	
566305C-8	566305CE-8	4.130"	6.125"	4.000"	1.115"	.927"	489	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8	
566310C-8	566310CE-8	4.135"	6.125"	4.000"	1.115"	.927"	490	LS-1,2,3,6,7,92	.175" Trough	46362-8	46362ST-8	
566340C-8	566340CE-8	4.165"	6.125"	4.000"	1.115"	.927"	497	LS-1,2,3,6,7,92	.175" Trough	46364-8	46364ST-8	
566360C-8	566360CE-8	4.185"	6.125"	4.000"	1.115"	.927"	503	LS-1,2,3,6,7,92	.175" Trough	46366-8	46366ST-8	
4.100" STROKE -20cc DISH												
566005C-8	566005CE-8	4.005"	6.125"	4.100"	1.065"	.927"	437	LS-1,2,3,6,92	.175" Trough	46110-8	46110ST-8	
566065C-8	566065CE-8	4.065"	6.125"	4.100"	1.065"	.927"	455	LS-1,2,3,6,92	.175" Trough	46116-8	46116ST-8	
566070C-8	566070CE-8	4.070"	6.125"	4.100"	1.065"	.927"	456	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8	
566400C-8	566400CE-8	4.125"	6.125"	4.100"	1.065"	.927"	474	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8	
566405C-8	566405CE-8	4.130"	6.125"	4.100"	1.065"	.927"	475	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8	
566410C-8	566410CE-8	4.135"	6.125"	4.100"	1.065"	.927"	476	LS-1,2,3,6,7,92	.175" Trough	46362-8	46362ST-8	
566440C-8	566440CE-8	4.165"	6.125"	4.100"	1.065"	.927"	484	LS-1,2,3,6,7,92	.175" Trough	46364-8	46364ST-8	
566460C-8	566460CE-8	4.185"	6.125"	4.100"	1.065"	.927"	491	LS-1,2,3,6,7,92	.175" Trough	46366-8	46366ST-8	

Common Features

Crown Thickness: .225"
 Top Ring: 1.5mm, .250" down
 Second Ring: 1.5mm
 Oil Ring: 3.0mm
 Max. Valve Sizes: 2.165" Int., 1.625" Exh. for .185"/.130" depth
 2.165" Int., 1.625" Exh. for .175" Trough depth (4.005-4.070" bore)
 2.205" Int., 1.625" Exh. for .175" Trough depth (4.125-4.185" bore)

Round Wire Locks: P/N 42262 - .061" wide
 Recommended Piston Clearance: .0045" measured 1.100" from the bottom of the oil ring

Pin Included:
 Standard Series: Premium Chrome Moly P/N 42442 included with the 4.005"-4.070" bores (2.300" x .150" wall, .927" dia., 110 grams)
 Standard Series: Premium Chrome Moly P/N 42428 included with the 4.125"-4.185" bores (2.500" x .150" wall, .927" dia., 118 grams)
 Extreme Duty Series: 9310 Alloy P/N 42542 included with the 4.005"-4.070" bores (2.300" x .210" wall, .927" dia., 139 grams)
 Extreme Duty Series: 9310 Alloy P/N 42528 included with the 4.125"-4.185" bores (2.500" x .210" wall, .927" dia., 149 grams)

Chevy LS 3.622", 4.000" & 4.100" Stroke Compression Ratio Chart

Bore	Stroke	Cylinder Head (cc)			
		64	66	70	72
-4cc FLAT TOP					
4.010	3.622	10.7	10.5	9.9	9.7
4.065	3.622	11.0	10.7	10.2	10.0
4.070	3.622	11.1	10.8	10.3	10.1
-18cc DISH					
4.005	4.000	10.1	9.9	9.5	9.4
4.065	4.000	10.4	10.2	9.8	9.6
4.070	4.000	10.4	10.2	9.8	9.6
4.125	4.000	10.6	10.4	10.0	9.8
4.130	4.000	10.6	10.4	10.0	9.9
4.135	4.000	10.7	10.5	10.1	10.0
4.165	4.000	10.8	10.6	10.2	10.0
4.185	4.000	10.9	10.6	10.3	10.1
-20cc DISH					
4.005	4.100	10.1	9.9	9.6	9.4
4.065	4.100	10.4	10.2	9.8	9.6
4.070	4.100	10.4	10.2	9.8	9.7
4.125	4.100	10.6	10.4	10.1	9.9
4.130	4.100	10.7	10.5	10.1	9.9
4.135	4.100	10.8	10.6	10.2	10.0
4.165	4.100	10.7	10.5	10.1	9.9
4.185	4.100	10.8	10.6	10.2	10.0

Compression ratios are calculated at 0.00" deck clearance, a 9.240" deck height, and a .042" thick compressed head gasket

SEE PAGE 131 & 132 FOR CUSTOM PISTONS



WWW.MANLEYPERFORMANCE.COM

PISTONS, RINGS, & PINS

PLATINUM SERIES PISTONS

Small Block Chevrolet LS Series

LSX, RHS, & World Warhawk Blocks 4.250" Stroke Pistons

Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Pin Diam	Piston Wt / Gms	Valve Pocket Type	Valve Pocket Depth Int. / Exh.	Piston Ring Sets Ductile Iron Top Rings	Piston Ring Sets Premium Steel Top Rings
-11cc DISH for LSX											
592400C-8	592400CE-8	4.125"	6.460"	4.250"	1.115"	.927"	432	LS-1,2,3,6,7,92	.225" Trough	46360-8	46360ST-8
592405C-8	592405CE-8	4.130"	6.460"	4.250"	1.115"	.927"	434	LS-1,2,3,6,7,92	.225" Trough	46361-8	46361ST-8
592410C-8	592410CE-8	4.135"	6.460"	4.250"	1.115"	.927"	436	LS-1,2,3,6,7,92	.225" Trough	46362-8	46362ST-8
592440C-8	592440CE-8	4.165"	6.460"	4.250"	1.115"	.927"	453	LS-1,2,3,6,7,92	.225" Trough	46364-8	46364ST-8
592460C-8	592460CE-8	4.185"	6.460"	4.250"	1.115"	.927"	461	LS-1,2,3,6,7,92	.225" Trough	46366-8	46366ST-8
-18cc DISH for LSX											
596300C-8	596300CE-8	4.125"	6.460"	4.250"	1.115"	.927"	437	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8
596305C-8	596305CE-8	4.130"	6.460"	4.250"	1.115"	.927"	439	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8
596310C-8	596310CE-8	4.135"	6.460"	4.250"	1.115"	.927"	441	LS-1,2,3,6,7,92	.175" Trough	46362-8	46362ST-8
596340C-8	596340CE-8	4.165"	6.460"	4.250"	1.115"	.927"	460	LS-1,2,3,6,7,92	.175" Trough	46364-8	46364ST-8
596360C-8	596360CE-8	4.185"	6.460"	4.250"	1.115"	.927"	468	LS-1,2,3,6,7,92	.175" Trough	46366-8	46366ST-8
-29cc DISH for LSX											
592900C-8	592900CE-8	4.125"	6.460"	4.250"	1.115"	.927"	430	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8
592905C-8	592905CE-8	4.130"	6.460"	4.250"	1.115"	.927"	434	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8
592910C-8	592910CE-8	4.135"	6.460"	4.250"	1.115"	.927"	436	LS-1,2,3,6,7,92	.175" Trough	46362-8	46362ST-8
592940C-8	592940CE-8	4.165"	6.460"	4.250"	1.115"	.927"	457	LS-1,2,3,6,7,92	.175" Trough	46364-8	46364ST-8
592960C-8	592960CE-8	4.185"	6.460"	4.250"	1.115"	.927"	463	LS-1,2,3,6,7,92	.175" Trough	46366-8	46366ST-8
-11cc DISH for RHS/WARHAWK											
599000C-8	599000CE-8	4.125"	See Note	4.250"	1.315"	.927"	487	LS-1,2,3,6,7,92	.225" Trough	46360-8	46360ST-8
599005C-8	599005CE-8	4.130"	See Note	4.250"	1.315"	.927"	489	LS-1,2,3,6,7,92	.225" Trough	46361-8	46361ST-8
599040C-8	599040CE-8	4.165"	See Note	4.250"	1.315"	.927"	497	LS-1,2,3,6,7,92	.225" Trough	46364-8	46364ST-8
599060C-8	599060CE-8	4.185"	See Note	4.250"	1.315"	.927"	505	LS-1,2,3,6,7,92	.225" Trough	46366-8	46366ST-8
-20cc DISH for RHS/WARHAWK											
599100C-8	599100CE-8	4.125"	See Note	4.250"	1.315"	.927"	486	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8
599105C-8	599105CE-8	4.130"	See Note	4.250"	1.315"	.927"	488	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8
599140C-8	599140CE-8	4.165"	See Note	4.250"	1.315"	.927"	494	LS-1,2,3,6,7,92	.175" Trough	46364-8	46364ST-8
599160C-8	599160CE-8	4.185"	See Note	4.250"	1.315"	.927"	502	LS-1,2,3,6,7,92	.175" Trough	46366-8	46366ST-8
-31cc DISH for RHS/WARHAWK											
599200C-8	599200CE-8	4.125"	See Note	4.250"	1.315"	.927"	482	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8
599205C-8	599205CE-8	4.130"	See Note	4.250"	1.315"	.927"	484	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8
599240C-8	599240CE-8	4.165"	See Note	4.250"	1.315"	.927"	493	LS-1,2,3,6,7,92	.175" Trough	46364-8	46364ST-8
599260C-8	599260CE-8	4.185"	See Note	4.250"	1.315"	.927"	501	LS-1,2,3,6,7,92	.175" Trough	46366-8	46366ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness: Top: .151" 2nd: .165" Oil: .145" Note: Gapless® Top Ring Sets are also available See page 134

ROD LENGTH Note: Above pistons are intended to be used with a 6.300" rod length in the RHS block and with a 6.350" rod length in the Warhawk block

Common Features

Crown Thickness: .200"
 Top Ring: 1.5mm .225" down, -11cc Dishes
 .250" down, -18cc, 20cc, -29cc & -31cc Dishes
 Second Ring: 1.5mm
 Oil Ring: 3mm
 Max. Valve Sizes: 2.205" Int., 1.625" Exh. for .175" Trough depth
 2.205" Int., 1.625" Exh. for .225" Trough depth

Round Wire Locks: P/N 42262 - .061" wide
 Recommended
 Piston Clearance: .0045" measured 1.100" from bottom of the oil ring
 Pin Included: Standard Series: Premium Chrome Moly P/N 42428
 (2.500" x .150" wall, .927" dia., 118 grams)
 Extreme Duty Series: 9310 Alloy P/N 42528
 (2.500" x .210" wall, .927" dia., 149 grams)
 Block Deck Heights: LSX 9.700"
 RHS 9.750"
 World 9.800"

Intake valve maximum head diameter is 2.205"

Chevy LS 4.250" Stroke Compression Ratio Chart

Bore	Cylinder Head (cc)				
	64	66	70	72	78
-11cc DISH					
4.125	11.7	11.5	11.0	10.8	10.2
4.130	11.7	11.5	11.0	10.8	10.2
4.135	11.8	11.4	11.1	10.9	10.3
4.165	11.9	11.7	11.2	11.0	10.4
4.185	12.0	11.8	11.3	11.1	10.5
-18cc DISH					
4.125	10.9	10.7	10.3	10.1	9.6
4.130	10.9	10.7	10.3	10.1	9.6
4.135	11.0	10.8	10.4	10.2	9.7
4.165	11.1	10.9	10.5	10.3	9.8
4.185	11.2	11.0	10.6	10.4	9.9
-20cc DISH					
4.125	10.7	10.5	10.1	10.0	9.5
4.130	10.7	10.5	10.2	10.0	9.5
4.165	10.9	10.7	10.3	10.1	9.6
4.185	11.0	10.8	10.4	10.2	9.7
-29cc DISH					
4.125	9.9	9.7	9.4	9.2	8.8
4.130	9.9	9.7	9.4	9.2	8.8
4.135	10.0	9.8	9.5	9.3	8.9
4.165	10.0	9.9	9.5	9.4	9.0
4.185	10.1	10.0	9.6	9.5	9.1
-31cc DISH					
4.125	9.7	9.6	9.2	9.1	8.7
4.130	9.7	9.6	9.2	9.1	8.7
4.165	9.9	9.7	9.4	9.2	8.8
4.185	10.0	9.8	9.5	9.3	8.9

Compression ratios are calculated at 0.00" deck clearance with a .053" thick compressed head gasket

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Small Block Chevrolet LT1 / LT4

Direct Injected LT1/LT4 for 3.622" & 4.000" Strokes

- ▶ 2618 high strength material; Lightweight design
- ▶ Offset wrist pin design
- ▶ Machined for reluctor wheel clearance
- ▶ Round wire locks
- ▶ 1.2, 1.2, 3mm ring package
- ▶ Forced pin oiling, pressure balance groove and precision pin fitting
- ▶ Premium Chrome Moly wrist pins (Standard Series) included
- ▶ 9310 alloy pin (Extreme Duty Series) included: P/N 42542 2.300" x .210" wall (4.065"-4.080" bores) and P/N 42528 2.500" x .210" wall (4.125"-4.130" bores)



Note: These pistons are designed for connecting rods with .927" diameter floating wrist pins

Standard Part No.	Extreme Duty Part No.	Bore Size	Over Size	Rod Length	Stroke	Comp Distance	Comp Ratio	Piston Wt/Gms	-Piston Ring Sets- Premium Steel Top Rings
STOCK STROKE -2cc DOME LT1/LT4									
560065C-8	560065CE-8	4.065"	STD	6.125"	3.622"	1.304"	11.7/10.8	498	46016ST-8
560070C-8	560070CE-8	4.070"	+.005"	6.125"	3.622"	1.304"	11.7/10.8	500	46017ST-8
560075C-8	560075CE-8	4.075"	+.010"	6.125"	3.622"	1.304"	11.8/10.9	502	46017ST-8
560080C-8	560080CE-8	4.080"	+.015"	6.125"	3.622"	1.304"	11.8/10.9	504	46018ST-8
STOCK STROKE -12cc DISH									
560165C-8	560165CE-8	4.065"	STD	6.125"	3.622"	1.304"	10.5/9.7	469	46016ST-8
560170C-8	560170CE-8	4.070"	+.005"	6.125"	3.622"	1.304"	10.5/9.7	471	46017ST-8
560175C-8	560175CE-8	4.075"	+.010"	6.125"	3.622"	1.304"	10.6/9.8	472	46017ST-8
560180C-8	560180CE-8	4.080"	+.015"	6.125"	3.622"	1.304"	10.6/9.8	473	46018ST-8
STROKER SERIES -10cc DISH									
560265C-8	560265CE-8	4.065"	STD	6.125"	4.000"	1.115"	11.7/10.8	439	46016ST-8
560270C-8	560270CE-8	4.070"	+.005"	6.125"	4.000"	1.115"	11.7/10.8	442	46017ST-8
560275C-8	560275CE-8	4.075"	+.010"	6.125"	4.000"	1.115"	11.8/10.9	445	46017ST-8
560280C-8	560280CE-8	4.080"	+.015"	6.125"	4.000"	1.115"	11.8/10.9	446	46018ST-8
560300C-8	560300CE-8	4.125"	+.060"	6.125"	4.000"	1.115"	12.0/11.1	471	46060ST-8
560305C-8	560305CE-8	4.130"	+.065"	6.125"	4.000"	1.115"	12.0/11.1	473	46061ST-8
560310C-8	560310CE-8	4.135"	+.070"	6.125"	4.000"	1.115"	12.1/11.1	475	46062ST-8
STROKER SERIES -20cc DISH									
560465C-8	560465CE-8	4.065"	STD	6.125"	4.000"	1.115"	10.5/9.8	414	46016ST-8
560470C-8	560470CE-8	4.070"	+.005"	6.125"	4.000"	1.115"	10.5/9.8	415	46017ST-8
560475C-8	560475CE-8	4.075"	+.010"	6.125"	4.000"	1.115"	10.6/9.9	418	46017ST-8
560480C-8	560480CE-8	4.080"	+.015"	6.125"	4.000"	1.115"	10.6/9.9	419	46018ST-8
560500C-8	560500CE-8	4.125"	+.060"	6.125"	4.000"	1.115"	10.8/10.1	445	46060ST-8
560505C-8	560505CE-8	4.130"	+.065"	6.125"	4.000"	1.115"	10.8/10.1	447	46061ST-8
560510C-8	560510CE-8	4.135"	+.070"	6.125"	4.000"	1.115"	10.9/10.1	449	46062ST-8

Compression are calculated at 0.00" deck clearance, a 9.240" deck height, with a 59cc LT1/65.5cc LT4 combustion chamber, and a .051" thick compressed head gasket

Common Features

Crown Thickness:	.225"	Pin Included:	Standard Series: Premium Chrome Moly P/N 42442 included with the 4.065"-4.080" bores (2.300" x .150" wall, .927" dia., 110 grams)
Top Ring:	1.2mm .300" down (1.304") .290" down (1.115")		Standard Series: Premium Chrome Moly P/N 42428 included with the 4.125"-4.130" bores (2.500" x .150" wall, .927" dia., 118 grams)
Second Ring:	1.2mm		Extreme Duty Series: 9310 Alloy P/N 42542 included with the 4.065"-4.080" bores (2.300" x .210" wall, .927" dia., 139 grams)
Oil Ring:	3.0mm		Extreme Duty Series: 9310 Alloy P/N 42528 included with the 4.125"-4.130" bores (2.500" x .210" wall, .927" dia., 149 grams)
Max. Valve Sizes:	2.120" Int., 1.625" Exh.		
Valve Notches:	.180" Int., .200" Exh.		
Round Wire Locks:	P/N 42262 - .061" wide		
Recommended			
Piston Clearance:	.0045" measured 1.100" from the bottom of the oil ring		

SEE PAGE 131 & 132 FOR CUSTOM PISTONS



PLATINUM SERIES PISTONS

Chevy 5.3L LS / L83

- ▶ 2618 high strength material lightweight design
- ▶ Offset wrist pin design
- ▶ Machined for reluctor wheel clearance
- ▶ Round wire locks
- ▶ 1.2, 1.2, 3.0mm ring package
- ▶ Forced pin oiling, pressure balance groove and precision pin fitting
- ▶ Premium Chrome Moly wrist pins (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42542



Gen III/IV for 3.622" & 4.000" Strokes

Standard Part No.	Extreme Duty Part No.	Bore Size	Over Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gms	Piston Ring Sets	
								Ductile Iron Top Rings	Premium Steel Top Rings
STOCK STROKE -2cc FLAT TOP									
561005C-8	561005CE-8	3.785"	+ .005"	6.125"	3.622"	1.304"	448	46500-8	46500ST-8
561010C-8	561010CE-8	3.790"	+ .010"	6.125"	3.622"	1.304"	450	46510-8	46510ST-8
561020C-8	561020CE-8	3.800"	+ .020"	6.125"	3.622"	1.304"	454	46520-8	46520ST-8
STROKER SERIES -7cc DISH									
561105C-8	561105CE-8	3.785"	+ .005"	6.125"	4.000"	1.115"	400	46500-8	46500ST-8
561110C-8	561110CE-8	3.790"	+ .010"	6.125"	4.000"	1.115"	402	46510-8	46510ST-8
561120C-8	561120CE-8	3.800"	+ .020"	6.125"	4.000"	1.115"	405	46520-8	46520ST-8

Gen V Direct Injected for 3.622" & 4.000" Strokes

Standard Part No.	Extreme Duty Part No.	Bore Size	Over Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gms	Piston Ring Sets	
								Ductile Iron Top Rings	Premium Steel Top Rings
STOCK STROKE -2cc DOME									
561200C-8	561200CE-8	3.780"	STD	6.125"	3.622"	1.304"	460	46500-8	46500ST-8
561210C-8	561210CE-8	3.790"	+ .010"	6.125"	3.622"	1.304"	464	46510-8	46510ST-8
561220C-8	561220CE-8	3.800"	+ .020"	6.125"	3.622"	1.304"	468	46520-8	46520ST-8
STROKER SERIES -10cc DISH									
561300C-8	561300CE-8	3.780"	STD	6.125"	4.000"	1.115"	409	46500-8	46500ST-8
561310C-8	561310CE-8	3.790"	+ .010"	6.125"	4.000"	1.115"	412	46510-8	46510ST-8
561320C-8	561320CE-8	3.800"	+ .020"	6.125"	4.000"	1.115"	415	46520-8	46520ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
 Top: .134" 2nd: .143" Oil: .145"

Common Features

Crown Thickness: .225"
 Top Ring: 1.2mm
 .300" down (1.304")
 .290" down (1.115")
 Second Ring: 1.2mm
 Oil Ring: 3.0mm
 Max. Valve Sizes: 2.125" Int., 1.650" Exh.
 Valve Notches: .175" Int., .150" Exh. (Gen III/IV)
 .180" Int., .200" Exh. (Gen V)

Pin Included: Standard Series: Premium Chrome Moly P/N 42442 (2.300" x .150" wall, .927" dia., 110 grams)
 Extreme Duty Series: 9310 Alloy P/N 42542 (2.300" x .210" wall, .927" dia., 139 grams)
 Round Wire Locks: P/N 42262 - .061" wide
 Recommended Piston Clearance: .0045" measured 1.100" from the bottom of the oil ring

Chevy LS 5.3L Gen III/IV Comp. Ratio Chart

Bore	Stroke	58cc	62cc	66cc	70cc
FLAT TOP					
3.785	3.622	10.50	9.99	9.53	9.11
3.790	3.622	10.55	10.03	9.57	9.15
3.800	3.622	10.60	10.08	9.62	9.20
-7cc DISH					
3.785	4.000	10.82	10.32	9.87	9.46
3.790	4.000	10.87	10.37	9.92	9.51
3.800	4.000	10.92	10.42	9.96	9.55

Chevy LS 5.3L Gen V Comp. Ratio Chart

Bore	Stroke	60cc
DOME		
3.780	3.622	10.26
3.790	3.622	10.31
3.800	3.622	10.36
-10cc DISH		
3.780	4.000	10.20
3.790	4.000	10.25
3.800	4.000	10.30

Compression ratios are calculated at 0.00" deck clearance with a .051" thick compressed gasket

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PISTONS, RINGS, & PINS

PLATINUM SERIES PISTONS

Big Block Chevrolet

4.500" Bore Flat Top & Mini Dome

- ▶ 2618 high strength material, lightweight design
- ▶ Perfect ring groove to skirt squareness and pressure balance groove
- ▶ Premium Chrome Moly pin and spiral locks included
- ▶ Pin fitting included
- ▶ Suitable for superchargers, turbos, nitrous



Flat Top



Mini Dome

Part No.	Bore Size	STD Deck Block Rod Length / Crank Stroke	CID	Tall Deck Block Rod Length / Crank Stroke	CID	Compression Distance	Piston Wt / Gms	Dome Volume	Piston Ring Set
FLAT TOP									
696000-8	4.500"	6.135" / 4.000"	509	6.535" / 4.000"	509	1.645"	713	- 3cc	46450-8
696030-8	4.530"	6.135" / 4.000"	516	6.535" / 4.000"	516	1.645"	721	- 3cc	46453-8
696060-8	4.560"	6.135" / 4.000"	523	6.535" / 4.000"	523	1.645"	729	- 3cc	46456-8
696080-8	4.600"	6.135" / 4.000"	532	6.535" / 4.000"	532	1.645"	755	- 3cc	46458-8
696100-8	4.500"	6.385" / 4.000"	509	6.535" / 4.500"	573	1.395"	650	- 3cc	46450-8
696130-8	4.530"	6.385" / 4.000"	516	6.535" / 4.500"	580	1.395"	660	- 3cc	46453-8
696160-8	4.560"	6.385" / 4.000"	523	6.535" / 4.500"	588	1.395"	670	- 3cc	46456-8
696180-8	4.600"	6.385" / 4.000"	532	6.535" / 4.500"	598	1.395"	695	- 3cc	46458-8
696200-8	4.500"	6.135" / 4.250"	541	6.535" / 4.250"	541	1.520"	676	- 3cc	46450-8
696230-8	4.530"	6.135" / 4.250"	548	6.535" / 4.250"	548	1.520"	692	- 3cc	46453-8
696260-8	4.560"	6.135" / 4.250"	555	6.535" / 4.250"	555	1.520"	705	- 3cc	46456-8
696280-8	4.600"	6.135" / 4.250"	565	6.535" / 4.250"	565	1.520"	732	- 3cc	46458-8
696300-8	4.500"	6.385" / 4.250"	541	6.535" / 4.750"	604	1.270"	615	- 3cc	46450-8
696330-8	4.530"	6.385" / 4.250"	548	6.535" / 4.750"	613	1.270"	632	- 3cc	46453-8
696360-8	4.560"	6.385" / 4.250"	555	6.535" / 4.750"	621	1.270"	637	- 3cc	46456-8
696380-8	4.600"	6.385" / 4.250"	565	6.535" / 4.750"	632	1.270"	665	- 3cc	46458-8
696390-8	4.625"	6.385" / 4.250"	572	6.535" / 4.750"	639	1.270"	680	- 3cc	46459-8
698080-8	4.600"	6.535" / 4.000"	532	6.700" / 4.500"	598	1.245"	654	- 3cc	46458-8
698480-8	4.600"	6.535" / 4.125"	548	6.700" / 4.625"	615	1.185"	636	- 3cc	46458-8
698180-8	4.600"	6.535" / 4.250"	565	6.700" / 4.750"	632	1.120"	612	- 3cc	46458-8
MINI DOME									
696800-8	4.500"	6.135" / 4.000"	509	6.535" / 4.000"	509	1.645"	690	2cc	46450-8
696830-8	4.530"	6.135" / 4.000"	516	6.535" / 4.000"	516	1.645"	694	2cc	46453-8
698330-8	4.530"	6.385" / 4.000"	516	6.535" / 4.500"	580	1.395"	644	2cc	46453-8

Note: Gapless® Top Ring Sets are also available. See page 134

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .200" 2nd: .200" Oil: .170"

Common Features

- Crown Thickness: .250"
- Top Ring: 1/16", .350" down Flat Top except on 1.245" and 1.185" CD is .325" down and 1.120" CD is .250" down, .305" down Mini Dome
- Second Ring: 1/16"
- Oil Ring: 3/16"
- Max. Valve Sizes: 2.450" Int., 2.090" Exh.
- Intake Valve Notch: .315"
- Pin Included: Flat Top: Premium Chrome Moly P/N 42220 (.180" wall, 170 grams, 2.930" long, .990" dia.)
Mini Dome: Premium Chrome Moly P/N 42219 (.150" wall, 147 grams, 2.930" long, .990" dia.)
- Spiral Locks: P/N 42271 - .042" wide (4 per piston)
- Recommended Piston Clearance: .006" measured 1.100" from bottom of the oil ring

Pistons with 1.395" and shorter compression distances REQUIRE, and are shipped with, groove lock spacers (Except P/N 698330)

Compression Ratio Chart

Bore	Stroke	112cc	118cc	124cc
-3cc FLAT TOP				
4.500"	4.000"	9.0:1	8.7:1	8.4:1
4.530"	4.000"	9.1:1	8.8:1	8.5:1
4.560"	4.000"	9.3:1	8.9:1	8.6:1
4.600"	4.000"	9.4:1	9.0:1	8.7:1
4.600"	4.125"	9.7:1	9.3:1	9.0:1
4.500"	4.250"	9.6:1	9.2:1	8.8:1
4.530"	4.250"	9.7:1	9.3:1	8.9:1
4.560"	4.250"	9.8:1	9.4:1	9.0:1
4.600"	4.250"	9.9:1	9.5:1	9.1:1
4.625"	4.250"	10.0:1	9.6:1	9.3:1
4.500"	4.500"	10.1:1	9.7:1	9.3:1
4.530"	4.500"	10.2:1	9.8:1	9.4:1
4.560"	4.500"	10.3:1	9.9:1	9.5:1
4.600"	4.500"	10.5:1	10.0:1	9.7:1
4.600"	4.625"	10.8:1	10.3:1	9.9:1
4.500"	4.750"	10.6:1	10.1:1	9.8:1
4.530"	4.750"	10.7:1	10.3:1	9.9:1
4.560"	4.750"	10.8:1	10.4:1	10.0:1
4.600"	4.750"	11.0:1	10.5:1	10.1:1
4.625"	4.750"	11.1:1	10.6:1	10.2:1
2cc MINI DOME				
4.500"	4.000"	9.4:1	9.0:1	8.7:1
4.530"	4.000"	9.5:1	9.1:1	8.8:1
4.530"	4.500"	10.6:1	10.1:1	9.7:1

All compression ratios are calculated at .010" deck clearance, a 4.600" head gasket ID with a .042" compressed thickness

SEE PAGE 131 & 132 FOR CUSTOM PISTONS



WWW.MANLEYPERFORMANCE.COM

PISTONS, RINGS, & PINS

PLATINUM SERIES PISTONS

Big Block Chevrolet

4.500" Inverted Dome

- ▶ 2618 high strength material
- ▶ Lightweight design
- ▶ Full banded skirt for increased skirt stability
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ Premium Chrome Moly pin included
- ▶ Spiral locks included
- ▶ Pin fitting included
- ▶ Suitable for superchargers, turbos, nitrous



Part No.	Bore Size	STD Deck Block Rod / Crank Length / Stroke	CID	Tall Deck Block Rod / Crank Length / Stroke	CID	Compression Distance	Piston Wt / Gms	Dome Volume	Piston Ring Set
696400-8	4.500"	6.135" / 4.000"	509	6.535" / 4.000"	509	1.645"	706	- 10cc	46450-8
696430-8	4.530"	6.135" / 4.000"	516	6.535" / 4.000"	516	1.645"	724	- 10cc	46453-8
696460-8	4.560"	6.135" / 4.000"	523	6.535" / 4.000"	523	1.645"	736	- 10cc	46456-8
696480-8	4.600"	6.135" / 4.000"	532	6.535" / 4.000"	532	1.645"	757	- 10cc	46458-8
696500-8	4.500"	6.385" / 4.000"	509	6.535" / 4.500"	573	1.395"	647	- 10cc	46450-8
696530-8	4.530"	6.385" / 4.000"	516	6.535" / 4.500"	580	1.395"	660	- 10cc	46453-8
696560-8	4.560"	6.385" / 4.000"	523	6.535" / 4.500"	588	1.395"	671	- 10cc	46456-8
696580-8	4.600"	6.385" / 4.000"	532	6.535" / 4.500"	598	1.395"	695	- 10cc	46458-8
696600-8	4.500"	6.135" / 4.250"	541	6.535" / 4.250"	541	1.520"	680	- 20cc	46450-8
696630-8	4.530"	6.135" / 4.250"	548	6.535" / 4.250"	548	1.520"	700	- 20cc	46453-8
696660-8	4.560"	6.135" / 4.250"	555	6.535" / 4.250"	555	1.520"	710	- 20cc	46456-8
696680-8	4.600"	6.135" / 4.250"	565	6.535" / 4.250"	565	1.520"	724	- 20cc	46458-8
696700-8	4.500"	6.385" / 4.250"	541	6.535" / 4.750"	604	1.270"	621	- 20cc	46450-8
696730-8	4.530"	6.385" / 4.250"	548	6.535" / 4.750"	613	1.270"	634	- 20cc	46453-8
696760-8	4.560"	6.385" / 4.250"	555	6.535" / 4.750"	621	1.270"	645	- 20cc	46456-8
696780-8	4.600"	6.385" / 4.250"	565	6.535" / 4.750"	632	1.270"	668	- 20cc	46458-8

Note: Gapless® Top Ring Sets are also available. See page 134

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
 Top: .200" 2nd: .200" Oil: .170"



PISTONS, RINGS, & PINS

Common Features

- Crown Thickness: .250"
- Top Ring: 1/16", .350" down
- Second Ring: 1/16"
- Oil Ring: 3/16"
- Max. Valve Sizes: 2.450" Int., 2.090" Exh.
- Intake Valve Notch: .315"
- Pin Included: Premium Chrome Moly P/N 42220
(.180" wall, 170 grams, 2.930" long, .990" dia.)
- Spiral Locks: P/N 42271 - .042" wide (4 per piston)
- Recommended
- Piston Clearance: .006" measured 1.100" from bottom of the oil ring

Compression Ratio Chart

Bore	Stroke	112cc	118cc	124cc
4.500"	4.000"	8.6:1	8.3:1	8.0:1
4.530"	4.000"	8.7:1	8.4:1	8.1:1
4.560"	4.000"	8.8:1	8.5:1	8.2:1
4.600"	4.000"	8.9:1	8.6:1	8.3:1
4.500"	4.250"	8.6:1	8.3:1	8.0:1
4.530"	4.250"	8.7:1	8.4:1	8.1:1
4.560"	4.250"	8.8:1	8.5:1	8.2:1
4.600"	4.250"	8.9:1	8.6:1	8.3:1
4.500"	4.500"	9.6:1	9.2:1	8.9:1
4.530"	4.500"	9.7:1	9.3:1	9.0:1
4.560"	4.500"	9.8:1	9.4:1	9.1:1
4.600"	4.500"	10.0:1	9.6:1	9.2:1
4.500"	4.750"	9.5:1	9.1:1	8.8:1
4.530"	4.750"	9.6:1	9.2:1	8.9:1
4.560"	4.750"	9.7:1	9.3:1	9.0:1
4.600"	4.750"	9.8:1	9.5:1	9.2:1

Pistons with 1.395" and 1.270" compression distances REQUIRE, and are shipped with, groove lock spacers

All compression ratios are calculated at .010" deck clearance, a 4.600" head gasket ID with a .042" compressed thickness

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Chrysler 5.7L Hemi

Dome, Flat Top & Dish

- ▶ Forged 2618 high strength material lightweight design
- ▶ Offset wrist pin design
- ▶ Round wire locks
- ▶ 1.5, 1.5, 3mm ring package
- ▶ Other features include forced pin oiling and pressure balance groove
- ▶ 2.300" x .150" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42542



Note: These pistons are designed for connecting rods with .927" diameter floating wrist pins

Standard Part No.	Extreme Duty Part No.	Bore Size	Over Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gms	Piston Ring Sets	
								Ductile Iron Top Rings	Premium Steel Top Rings
STOCK STROKE 9.3cc DOME									
597400C-8	597400CE-8	3.917"	STD	6.240"	3.579"	1.220"	427	46120-8	46120ST-8
597405C-8	597405CE-8	3.922"	+ .005"	6.240"	3.579"	1.220"	428	46121-8	46121ST-8
597420C-8	597420CE-8	3.937"	+ .020"	6.240"	3.579"	1.220"	434	46122-8	46122ST-8
STOCK STROKE -1.5cc FLAT TOP									
597500C-8	597500CE-8	3.917"	STD	6.240"	3.579"	1.220"	400	46120-8	46120ST-8
597505C-8	597505CE-8	3.922"	+ .005"	6.240"	3.579"	1.220"	402	46121-8	46121ST-8
597520C-8	597520CE-8	3.937"	+ .020"	6.240"	3.579"	1.220"	408	46122-8	46122ST-8
STOCK STROKE -12cc DISH									
597100C-8	597100CE-8	3.917"	STD	6.240"	3.579"	1.220"	393	46120-8	46120ST-8
597105C-8	597105CE-8	3.922"	+ .005"	6.240"	3.579"	1.220"	395	46121-8	46121ST-8
597120C-8	597120CE-8	3.937"	+ .020"	6.240"	3.579"	1.220"	401	46122-8	46122ST-8
STROKER SERIES -1.5cc FLAT TOP									
597200C-8	597200CE-8	3.917"	STD	6.125"	4.050"	1.085"	362	46120-8	46120ST-8
597205C-8	597205CE-8	3.922"	+ .005"	6.125"	4.050"	1.085"	364	46121-8	46121ST-8
597220C-8	597220CE-8	3.937"	+ .020"	6.125"	4.050"	1.085"	369	46122-8	46122ST-8
STROKER SERIES -14cc DISH									
597300C-8	597300CE-8	3.917"	STD	6.125"	4.050"	1.085"	351	46120-8	46120ST-8
597305C-8	597305CE-8	3.922"	+ .005"	6.125"	4.050"	1.085"	354	46121-8	46121ST-8
597320C-8	597320CE-8	3.937"	+ .020"	6.125"	4.050"	1.085"	359	46122-8	46122ST-8
STROKER SERIES -23cc DISH									
598500C-8	598500CE-8	3.917"	STD	6.125"	4.050"	1.085"	346	46120-8	46120ST-8
598505C-8	598505CE-8	3.922"	+ .005"	6.125"	4.050"	1.085"	348	46121-8	46121ST-8
598520C-8	598520CE-8	3.937"	+ .020"	6.125"	4.050"	1.085"	352	46122-8	46122ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
 Top: .155" 2nd: .160" Oil: .145" Note: Gapless® Top Ring Sets are also available
 See page 134

Common Features

for All Pistons on Page 116 & 117

- Crown Thickness: 9.3cc Dome .180" / 5cc Dome .200" / Flat Top .200" / Dish .200"
- Top Ring: 1.5mm, .250" down
- Second Ring: 1.5mm
- Oil Ring: 3mm
- Max. Valve Sizes: 2.100" Int., 1.650" Exh.
- Valve Notches: .100" Int., .080" Exh. (5.7L), .120" Int., .085" Exh. (6.1L)
- Pin Included: Standard Series: Premium Chrome Moly P/N 42442 (.150" wall, 110 grams, 2.300" long, .927" dia.)
 Extreme Duty Series: 9310 Alloy P/N 42542 (.210" wall, 139 grams, 2.300" long, .927" dia.)
- Round Wire Locks: P/N 42262 - .061" wide
- Recommended
- Piston Clearance: .0045" measured 1.100" from bottom of the oil ring

SEE PAGE 117 FOR COMPRESSION RATIOS

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Chrysler 6.1L Hemi & 6.1L Hemi with 6.4L Cylinder Heads

Dome, Flat Top & Dish

- ▶ Forged 2618 high strength material lightweight design
- ▶ Offset wrist pin design
- ▶ Round wire locks
- ▶ 1.5, 1.5, 3mm ring package
- ▶ Other features include forced pin oiling and pressure balance groove
- ▶ 2.300" x .150" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42542



Note: These pistons are designed for connecting rods with .927" diameter floating wrist pins

Standard Part No.	Extreme Duty Part No.	Bore Size	Over Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gms	Piston Ring Sets	
								Ductile Iron Top Rings	Premium Steel Top Rings
STOCK STROKE 5cc DOME									
597660C-8	597660CE-8	4.060"	+ .005"	6.240"	3.579"	1.220"	453	46116-8	46116ST-8
597665C-8	597665CE-8	4.065"	+ .010"	6.240"	3.579"	1.220"	455	46116-8	46116ST-8
597680C-8	597680CE-8	4.080"	+ .025"	6.240"	3.579"	1.220"	461	46118-8	46118ST-8
STOCK STROKE -11.5cc DISH									
597060C-8	597060CE-8	4.060"	+ .005"	6.240"	3.579"	1.220"	427	46116-8	46116ST-8
597065C-8	597065CE-8	4.065"	+ .010"	6.240"	3.579"	1.220"	429	46116-8	46116ST-8
597080C-8	597080CE-8	4.080"	+ .025"	6.240"	3.579"	1.220"	435	46118-8	46118ST-8
STROKER SERIES -1.5cc FLAT TOP									
597860C-8	597860CE-8	4.060"	+ .005"	6.125"	4.050"	1.085"	392	46116-8	46116ST-8
597865C-8	597865CE-8	4.065"	+ .010"	6.125"	4.050"	1.085"	394	46116-8	46116ST-8
597880C-8	597880CE-8	4.080"	+ .025"	6.125"	4.050"	1.085"	398	46118-8	46118ST-8
STROKER SERIES -11.5cc DISH									
598660C-8	598660CE-8	4.060"	+ .005"	6.125"	4.050"	1.085"	386	46116-8	46116ST-8
598665C-8	598665CE-8	4.065"	+ .010"	6.125"	4.050"	1.085"	388	46116-8	46116ST-8
598680C-8	598680CE-8	4.080"	+ .025"	6.125"	4.050"	1.085"	393	46118-8	46118ST-8
STROKER SERIES -24cc DISH									
598760C-8	598760CE-8	4.060"	+ .005"	6.125"	4.050"	1.085"	381	46116-8	46116ST-8
598765C-8	598765CE-8	4.065"	+ .010"	6.125"	4.050"	1.085"	383	46116-8	46116ST-8
598780C-8	598780CE-8	4.080"	+ .025"	6.125"	4.050"	1.085"	388	46118-8	46118ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness: Top: .151" 2nd: .168" Oil: .145" Note: Gapless® Top Ring Sets are also available See page 134

Compression Ratio Chart 5.7L Hemi

Bore	Stroke	5.7L		
		Thru 2008 85cc	2009-Up 65cc	6.1L Head 74cc
9.3cc DOME				
3.917" / 99.5mm	3.579"/90.9mm	9.63:1	12.42:1	10.97:1
3.922" / 99.63mm	3.579"/90.9mm	9.65:1	12.45:1	10.99:1
3.937" / 100mm	3.579"/90.9mm	9.72:1	12.53:1	11.07:1
-1.5cc FLAT TOP				
3.917" / 99.5mm	3.579"/90.9mm	8.62:1	10.72:1	9.65:1
3.922" / 99.63mm	3.579"/90.9mm	8.64:1	10.75:1	9.67:1
3.937" / 100mm	3.579"/90.9mm	8.70:1	10.82:1	9.74:1
3.917" / 99.5mm	4.050"	9.33:1	11.52:1	10.41:1
3.922" / 99.63mm	4.050"	9.35:1	11.54:1	10.43:1
3.937" / 100mm	4.050"	9.41:1	11.62:1	10.50:1
-12cc DISH				
3.917" / 99.5mm	3.579"/90.9mm	7.85:1	9.49:1	8.67:1
3.922" / 99.63mm	3.579"/90.9mm	7.87:1	9.52:1	8.69:1
3.937" / 100mm	3.579"/90.9mm	7.92:1	9.58:1	8.74:1

Compression ratios are calculated at .003" deck clearance (3.579" stroke) or .020" deck clearance (4.050" stroke), a 3.941" head gasket ID with a .028" compressed thickness

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

Compression Ratio Chart 5.7L Hemi

Bore	Stroke	5.7L		
		Thru 2008 85cc	2009-Up 65cc	6.1L Head 74cc
-14cc DISH				
3.917" / 99.5mm	4.050"	8.37:1	10.03:1	9.20:1
3.922" / 99.63mm	4.050"	8.39:1	10.06:1	9.22:1
3.937" / 100mm	4.050"	8.44:1	10.12:1	9.28:1
-23cc DISH				
3.917" / 99.5mm	4.050"	7.80:1	9.20:1	8.51:1
3.922" / 99.63mm	4.050"	7.82:1	9.22:1	8.53:1
3.937" / 100mm	4.050"	7.87:1	9.28:1	8.58:1

Compression Ratio Chart 6.1L Hemi

Bore	Stroke	6.1L			
		5cc Dome	Flat Top	-11.5cc Dish	-24cc Dish
4.060"	3.579"	10.70:1	-----	9.01:1	-----
4.065"	3.579"	10.72:1	-----	9.03:1	-----
4.080"	3.579"	10.79:1	-----	9.09:1	-----
4.060"	4.050"	-----	10.72:1	9.73:1	8.75:1
4.065"	4.050"	-----	10.74:1	9.75:1	8.77:1
4.080"	4.050"	-----	10.81:1	9.82:1	8.82:1

Compression ratios are calculated at .003" deck clearance (3.579" stroke) or .020" deck clearance (4.050" stroke), a 4.100" head gasket ID with a .040" compressed thickness and a 74cc combustion chamber

PLATINUM SERIES PISTONS

Chrysler 6.2L Hellcat

Stock 3.579" Stroke Pistons

- ▶ Forged 2618 high strength material lightweight design
- ▶ Offset wrist pin design
- ▶ Round wire locks
- ▶ 1.2, 1.2, 2.5mm ring package with lateral gas ports
- ▶ Other features include forced pin oiling and pressure balance groove
- ▶ 2.300" x .210" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42542



Note: These pistons are designed for connecting rods with .927" diameter floating wrist pins

Standard Part No.	Extreme Duty Part No.	Bore Size	Over Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gms	Piston Ring Sets Premium Steel Top Rings
-6.5cc DISH (9.5:1)								
597900C-8	597900CE-8	4.090"	STD	6.200"	3.579"	1.278"	456	46132ST-8
597905C-8	597905CE-8	4.095"	+.005"	6.200"	3.579"	1.278"	457	46133ST-8
597910C-8	597910CE-8	4.100"	+.010"	6.200"	3.579"	1.278"	461	46134ST-8

Compression ratios are calculated at .017" deck clearance, a 4.090" head gasket ID with a .039" compressed thickness and a 72cc combustion chamber

Common Features

- Crown Thickness: .250"
- Top Ring: 1.2mm, .300" down
- Second Ring: 1.2mm
- Oil Ring: 2.5mm
- Max. Valve Sizes: 2.180" Int., 1.675" Exh.
- Valve Notches: .120" Int., .085" Exh

- Pin Included: Standard Series: Premium Chrome Moly P/N 42444 (.210" wall, 139 grams, 2.300" long, .927" dia.)
Extreme Duty Series: 9310 Alloy P/N 42542 (.210" wall, 139 grams, 2.300" long, .927" dia.)
- Round Wire Locks: P/N 42262 - .061" wide
- Recommended
- Piston Clearance: .0045" measured 1.100" from the bottom of the oil ring

PISTONS, RINGS, & PINS



SharaDon Performance Powered

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Chrysler 6.4L Hemi

Dome & Dish

- ▶ Forged 2618 high strength material lightweight design
- ▶ Offset wrist pin design
- ▶ Round wire locks
- ▶ 1.5, 1.5, 3mm ring package
- ▶ Other features include forced pin oiling and pressure balance groove
- ▶ 2.300" x .150" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42542



Note: These pistons are designed for connecting rods with .927" diameter floating wrist pins

Standard Part No.	Extreme Duty Part No.	Bore Size	Over Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gms	Piston Ring Sets Premium Steel Top Rings
STOCK STROKE 1.75cc DOME								
598800C-8	598800CE-8	4.090"	STD	6.200"	3.724"	1.210"	430	46129ST-8
598805C-8	598805CE-8	4.095"	+.005"	6.200"	3.724"	1.210"	432	46130ST-8
598810C-8	598810CE-8	4.100"	+.010"	6.200"	3.724"	1.210"	434	46131ST-8
STOCK STROKE -12.5cc DISH								
598900C-8	598900CE-8	4.090"	STD	6.200"	3.724"	1.210"	411	46129ST-8
598905C-8	598905CE-8	4.095"	+.005"	6.200"	3.724"	1.210"	413	46130ST-8
598910C-8	598910CE-8	4.100"	+.010"	6.200"	3.724"	1.210"	415	46131ST-8
STROKER SERIES -5.0cc DISH								
599800C-8	599800CE-8	4.090"	STD	6.125"	4.050"	1.120"	402	46129ST-8
599805C-8	599805CE-8	4.095"	+.005"	6.125"	4.050"	1.120"	404	46130ST-8
599810C-8	599810CE-8	4.100"	+.010"	6.125"	4.050"	1.120"	406	46131ST-8
STROKER SERIES -20.5cc DISH								
599900C-8	599900CE-8	4.090"	STD	6.125"	4.050"	1.120"	394	46129ST-8
599905C-8	599905CE-8	4.095"	+.005"	6.125"	4.050"	1.120"	396	46130ST-8
599910C-8	599910CE-8	4.100"	+.010"	6.125"	4.050"	1.120"	398	46131ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
 Top: .150" 2nd: .170" Oil: .145"

Common Features

- Crown Thickness: .200"
- Top Ring: 1.5mm, .250" down
- Second Ring: 1.5mm
- Oil Ring: 3.0mm
- Max. Valve Sizes: 2.180" Int., 1.675" Exh.
- Valve Notches: .120" Int., .085" Exh
- Pin Included: Standard Series: Premium Chrome Moly P/N 42442 (.150" wall, 110 grams, 2.300" long, .927" dia.)
 Extreme Duty Series: 9310 Alloy P/N 42542 (.210" wall, 139 grams, 2.300" long, .927" dia.)
- Round Wire Locks: P/N 42262 - .061" wide
- Recommended
- Piston Clearance: .0045" measured 1.100" from the bottom of the oil ring

Compression Ratio Chart 6.4L HEMI

Bore	Stroke	1.75cc Dome	-5.0cc Dish	-12.5cc Dish	-20.5cc Dish
4.090"	3.724"	11.01:1	-----	9.50:1	-----
4.095"	3.724"	11.02:1	-----	9.51:1	-----
4.100"	3.724"	11.03:1	-----	9.52:1	-----
4.090"	4.050"	-----	11.00:1	-----	9.50:1
4.095"	4.050"	-----	11.01:1	-----	9.51:1
4.100"	4.050"	-----	11.02:1	-----	9.52:1

Compression ratios are calculated at .012" deck clearance, a 4.090" head gasket ID with a .027" compressed thickness and a 72cc combustion chamber

SEE PAGE 131 & 132 FOR CUSTOM PISTONS



PLATINUM SERIES PISTONS

Ford "EcoBoost" 2.3L DOHC 4 Valve

-8.2cc Dish

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ .150" x 2.250" wall Premium Chrome Moly pin (Standard Series) included P/N 42248
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42548
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top ring sets and round wire locks included



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
Ford Focus RS 2016-Up, Mustang 2015-Up (.886"/22.5mm x 2.250" Pin)											
63700C-4	63700CE-4	87.5	STD	5.875"	94	1.291"	-8.2	9.5	Dish	382	46875-4
637001C-4	637001CE-4	87.6	+.1mm	5.875"	94	1.291"	-8.2	9.5	Dish	384	46876-4
637005C-4	637005CE-4	88	+.5mm	5.875"	94	1.291"	-8.2	9.5	Dish	390	46880-4

Common Features

Crown Thickness: .200"
 Top Ring: 1.2mm, .250" down
 Second Ring: 1.2mm
 Oil Ring: 2.8mm
 Max. Valve Sizes: 33.0mm Int., 31.0mm Exh.
 Round Wire Locks: P/N 42270 - .061" wide

Pin Included: Standard Series: Premium Chrome Moly P/N 42248 (2.250" x .150" wall, 22.5mm/.886" dia., 100 grams)
 Extreme Duty Series: 9310 Alloy P/N 42548 (2.250" x .210" wall, 22.5mm/.886" dia., 128 grams)
 Recommended Piston Clearance: .0030" measured 1.100" from the bottom of the oil ring

Ford "EcoBoost" 3.5L DOHC 4 Valve

-8.5cc Dish & -0.5cc Dome Pistons

- ▶ 2618 high strength material; Lightweight design
- ▶ Offset wrist pin design for quiet start-ups
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ Round wire locks
- ▶ 1.2, 1.2, 2.5mm ring package
- ▶ Will accommodate +1mm valve sizes
- ▶ 2.500" x .180" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42546



Note: These pistons are designed for connecting rods with .9055"/23mm diameter floating wrist pins

Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston Ring Sets Premium Steel Top Rings
-8.5cc DISH (9.0:1)							
594800C-6	594800CE-6	3.642"	6.011"	3.413"	1.239"	407	46642ST-6
594810C-6	594810CE-6	3.652"	6.011"	3.413"	1.239"	411	46652ST-6
594820C-6	594820CE-6	3.662"	6.011"	3.413"	1.239"	415	46662ST-6
-0.5cc DOME (10.0:1)							
594900C-6	594900CE-6	3.642"	6.011"	3.413"	1.239"	419	46642ST-6
594910C-6	594910CE-6	3.652"	6.011"	3.413"	1.239"	423	46652ST-6
594920C-6	594920CE-6	3.662"	6.011"	3.413"	1.239"	427	46662ST-6

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .134" 2nd: .143" Oil: .115"

Common Features

Crown Thickness: .225"
 Top Ring: 1.2mm, .270" down
 Second Ring: 1.2mm
 Oil Ring: 2.5mm
 Max. Valve Sizes: 38.0mm Int., 32.0mm Exh.
 Round Wire Locks: P/N 42212 - .054" wide

Pin Included: Standard Series: Premium Chrome Moly P/N 42346 (2.500" x .180" wall, 23mm/.9055" dia., 132 grams)
 Extreme Duty Series: 9310 Alloy P/N 42546 (2.500" x .210" wall, 23mm/.9055" dia., 147 grams)
 Recommended Piston Clearance: .0030" measured .850" from the bottom of the oil ring

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PISTONS, RINGS, & PINS

PLATINUM SERIES PISTONS

Ford "Cyclone" 3.7L DOHC 4 Valve

-5cc Dish & +2.0cc Dome Pistons

- ▶ 2618 high strength material; Lightweight design
- ▶ Offset wrist pin design for quiet start-ups
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ Round wire locks
- ▶ 1.2, 1.5, 2.5mm ring package
- ▶ .225" deck thickness, .270" down top ring
- ▶ Will accommodate +1mm valve sizes
- ▶ 2.500" x .180" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42546



Note: These pistons are designed for connecting rods with .9055"/23mm diameter floating wrist pins

Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston Ring Sets Premium Steel Top Rings
-5cc DISH (9.5:1)							
599500C-6	599500CE-6	3.760"	6.011"	3.413"	1.239"	420	46760ST-6
599510C-6	599510CE-6	3.770"	6.011"	3.413"	1.239"	424	46770ST-6
599520C-6	599520CE-6	3.780"	6.011"	3.413"	1.239"	428	46780ST-6
+2.0cc DOME (10.5:1)							
599600C-6	599600CE-6	3.760"	6.011"	3.413"	1.239"	426	46760ST-6
599610C-6	599610CE-6	3.770"	6.011"	3.413"	1.239"	430	46770ST-6
599620C-6	599620CE-6	3.780"	6.011"	3.413"	1.239"	434	46780ST-6

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .134" 2nd: .152" Oil: .120"

Piston Clearance: .003" measured .850" from bottom of the oil ring

Max. Valve Sizes: 34.5mm Int./Exh.

Ford 4.6L & 5.4L SOHC/DOHC 2 & 4 Valve and 5.4L 3 Valve

"Street Master" Series Forged Aluminum 18cc Spherical Dish Piston

- ▶ Perfect blend of economy and high performance
- ▶ 1.2mm offset wrist pin location for quiet start-ups. Mimics OEM design
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ 2.500" length Premium Chrome Moly pin included with round wire locks
- ▶ Full banded skirt design for increased skirt stability



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Set
494200-8	3.552"	5.933" / 6.657"	3.543" / 4.165"	1.220"	369	475	46600-8
494220-8	3.572"	5.933" / 6.657"	3.543" / 4.165"	1.220"	376	482	46620-8
494230-8	3.582"	5.933" / 6.657"	3.543" / 4.165"	1.220"	379	485	46630-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .156" 2nd: .152" Oil: .145"

The pistons above will also work for the 6.8L V10 modular

Common Features

Dome Volume: -18cc
 Crown Thickness: .200"
 Compression Ratio: 8.53:1 w/ 51cc & 3.543" Stroke
 Top Ring: 1.5mm, .220" down
 Second Ring: 1.5mm
 Oil Ring: 3mm

Pin Included: Premium Chrome Moly P/N 42207 (.150" wall, 106 grams, 2.500" long)
 Round Wire Locks: Recommended P/N 42270 - .061" wide
 Piston Clearance: .0035" measured .850" from bottom of the oil ring

SEE PAGE 123 & 128 FOR COMPRESSION RATIOS

SEE PAGE 131 & 132 FOR CUSTOM PISTONS



PLATINUM SERIES PISTONS

Ford 4.6L SOHC 3 Valve (2004-up)

- ▶ 2618 high strength material lightweight design
- ▶ 1.2mm offset wrist pin design for quiet start-ups. Mimics OEM design
- ▶ Round wire locks
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ 1.5, 1.5, 3.0mm ring package
- ▶ 2.500" x .150" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42507
- ▶ Full banded skirt design for increased skirt stability



Stock 3.543" Stroke Pistons

Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gm	Piston Ring Sets		
							Ductile Iron Top Rings	Premium Steel Top Rings	Gapless® Top Rings
				-6.5cc DISH					
594300C-8	594300CE-8	3.552"	5.933"	3.543"	1.220"	352	46600-8	46600ST-8	46600GT-8
594320C-8	594320CE-8	3.572"	5.933"	3.543"	1.220"	362	46620-8	46620ST-8	46620GT-8
594330C-8	594330CE-8	3.582"	5.933"	3.543"	1.220"	367	46630-8	46630ST-8	46630GT-8
				-14cc DISH					
594500C-8	594500CE-8	3.552"	5.933"	3.543"	1.220"	360	46600-8	46600ST-8	46600GT-8
594520C-8	594520CE-8	3.572"	5.933"	3.543"	1.220"	370	46620-8	46620ST-8	46620GT-8
594530C-8	594530CE-8	3.582"	5.933"	3.543"	1.220"	375	46630-8	46630ST-8	46630GT-8
594570C-8	594570CE-8	3.700"	5.933"	3.543"	1.220"	413	46670-8	46670ST-8	46670GT-8

3.750" Stroke Pistons

Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gm	Piston Ring Sets		
							Ductile Iron Top Rings	Premium Steel Top Rings	Gapless® Top Rings
				-14cc DISH					
595500C-8	595500CE-8	3.552"	5.850"	3.750"	1.200"	375	46600-8	46600ST-8	46600GT-8
595520C-8	595520CE-8	3.572"	5.850"	3.750"	1.200"	382	46620-8	46620ST-8	46620GT-8
595530C-8	595530CE-8	3.582"	5.850"	3.750"	1.200"	385	46630-8	46630ST-8	46630GT-8
				-18cc DISH					
595570C-8	595570CE-8	3.700"	5.850"	3.750"	1.200"	421	46670-8	46670ST-8	46670GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
 Top: .156" 2nd: .152" Oil: .145"

Common Features

Crown Thickness: .185"
 Top Ring: 1.5mm, .220" down
 Second Ring: 1.5mm
 Oil Ring: 3mm
 Max. Valve Sizes: 38.5mm Exh.
 Round Wire Locks: P/N 42270 - .061" wide

Pin Included: Standard Series: Premium Chrome Moly P/N 42207 (2.500" x .150" wall, 22mm/.866" dia., 106 grams)
 Extreme Duty Series: 9310 Alloy P/N 42507 (2.500" x .210" wall, 22mm/.866" dia., 138 grams)

Recommended Piston Clearance: .003" measured .850" from bottom of the oil ring

Ford 4.6L 3V Compression Ratio Charts

Bore	Stroke	51cc	Bore	Stroke	51cc
		-6.5cc DISH			
3.552"	3.543	9.86	3.552"	3.750	9.41
3.572"	3.543	9.95	3.572"	3.750	9.51
3.582"	3.543	10.00	3.582"	3.750	9.55
		-14cc DISH			
3.552"	3.543	8.94	3.700"	3.750	9.64
3.572"	3.543	9.03			
3.582"	3.543	9.07			
3.700"	3.543	9.58			

Head Gasket Bore 3.620 (3.552-3.582)
 Head Gasket Bore 3.700 (3.700)
 Compressed Gasket Thickness .036
 Deck Clearance .008

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Ford 4.6L SOHC/DOHC 2 & 4 Valve (1991-up)

Stock 3.543" Stroke Pistons

- ▶ 2618 high strength material lightweight design
- ▶ 1.2mm offset wrist pin design for quiet start-ups. Mimics OEM design
- ▶ Round wire locks
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ 1.5, 1.5, 3.0mm ring package
- ▶ 2.500" x .150" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42507
- ▶ Full banded skirt design for increased skirt stability



Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gm	Piston Ring Sets		
							Ductile Iron Top Rings	Premium Steel Top Rings	Gapless® Top Rings
FLAT TOP									
594000C-8	594000CE-8	3.552"	5.933"	3.543"	1.220"	335	46600-8	46600ST-8	46600GT-8
594020C-8	594020CE-8	3.572"	5.933"	3.543"	1.220"	345	46620-8	46620ST-8	46620GT-8
594030C-8	594030CE-8	3.582"	5.933"	3.543"	1.220"	350	46630-8	46630ST-8	46630GT-8
594070C-8	594070CE-8	3.700"	5.933"	3.543"	1.220"	388	46670-8	46670ST-8	46670GT-8
-11cc DISH									
594100C-8	594100CE-8	3.552"	5.933"	3.543"	1.220"	350	46600-8	46600ST-8	46600GT-8
594120C-8	594120CE-8	3.572"	5.933"	3.543"	1.220"	355	46620-8	46620ST-8	46620GT-8
594130C-8	594130CE-8	3.582"	5.933"	3.543"	1.220"	362	46630-8	46630ST-8	46630GT-8
594170C-8	594170CE-8	3.700"	5.933"	3.543"	1.220"	401	46670-8	46670ST-8	46670GT-8
-18cc SPHERICAL DISH									
594200C-8	594200CE-8	3.552"	5.933"	3.543"	1.220"	384	46600-8	46600ST-8	46600GT-8
594220C-8	594220CE-8	3.572"	5.933"	3.543"	1.220"	390	46620-8	46620ST-8	46620GT-8
594230C-8	594230CE-8	3.582"	5.933"	3.543"	1.220"	393	46630-8	46630ST-8	46630GT-8
594270C-8	594270CE-8	3.700"	5.933"	3.543"	1.220"	431	46670-8	46670ST-8	46670GT-8
-23cc DISH									
594400C-8	594400CE-8	3.552"	5.933"	3.543"	1.220"	351	46600-8	46600ST-8	46600GT-8
594420C-8	594420CE-8	3.572"	5.933"	3.543"	1.220"	359	46620-8	46620ST-8	46620GT-8
594430C-8	594430CE-8	3.582"	5.933"	3.543"	1.220"	363	46630-8	46630ST-8	46630GT-8
594470C-8	594470CE-8	3.700"	5.933"	3.543"	1.220"	401	46670-8	46670ST-8	46670GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .156" 2nd: .152" Oil: .145"

Common Features

Crown Thickness: .185"
 Top Ring: 1.5mm, .220" down
 Second Ring: 1.5mm
 Oil Ring: 3mm
 Round Wire Locks: P/N 42270 - .061" wide

Pin Included: Standard Series: Premium Chrome Moly P/N 42207 (2.500" x .150" wall, 22mm/.866" dia., 106 grams)
 Extreme Duty Series: 9310 Alloy P/N 42507 (2.500" x .210" wall, 22mm/.866" dia., 138 grams)

Recommended
 Piston Clearance: .003" measured .850" from bottom of the oil ring

Ford 4.6L 2V & 4V Compression Ratio Charts

Bore	Stroke	42cc	51cc	52cc	Bore	Stroke	42cc	51cc	52cc
FLAT TOP									
3.552	3.543	12.65	10.86	10.69	3.552	3.543	9.54	8.53	8.44
3.572	3.543	12.78	10.97	10.80	3.572	3.543	9.63	8.63	8.52
3.582	3.543	12.85	11.02	10.85	3.582	3.543	9.68	8.66	8.56
3.700	3.543	13.55	11.63	11.45	3.700	3.543	10.21	9.13	9.03
-11cc DISH									
3.552	3.543	10.53	9.29	9.18	3.552	3.543	8.95	8.07	7.98
3.572	3.543	10.64	9.39	9.27	3.572	3.543	9.04	8.15	8.06
3.582	3.543	10.69	9.43	9.31	3.582	3.543	9.08	8.19	8.10
3.700	3.543	11.33	9.99	9.86	3.700	3.543	9.58	8.64	8.54
-18 SPHERICAL DISH									
-23cc DISH									

Head Gasket Bore 3.620 (3.552-3.582)
 Head Gasket Bore 3.700 (3.700)
 Compressed Gasket Thickness .036
 Deck Clearance .008

42cc Combustion Chamber is 99-up PI 2V
 51cc Combustion Chamber is 91-98 2V
 52cc Combustion Chamber is 93-up 4V

SEE PAGE 131 & 132 FOR CUSTOM PISTONS



PLATINUM SERIES PISTONS

Ford 4.6L SOHC/DOHC 2 & 4 Valve (1991-up)

3.750" Stroke Pistons

- ▶ 2618 high strength material lightweight design
- ▶ 1.2mm offset wrist pin design for quiet start-ups. Mimics OEM design
- ▶ Round wire locks
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ 1.5, 1.5, 3.0mm ring package
- ▶ 2.500" x .150" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42507
- ▶ Full banded skirt design for increased skirt stability



Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gm	Piston Ring Sets		
							Ductile Iron Top Rings	Premium Steel Top Rings	Gapless® Top Rings
FLAT TOP									
595000C-8	595000CE-8	3.552"	5.850"	3.750"	1.200"	350	46600-8	46600ST-8	46600GT-8
595020C-8	595020CE-8	3.572"	5.850"	3.750"	1.200"	357	46620-8	46620ST-8	46620GT-8
595030C-8	595030CE-8	3.582"	5.850"	3.750"	1.200"	360	46630-8	46630ST-8	46630GT-8
-11cc DISH									
595100C-8	595100CE-8	3.552"	5.850"	3.750"	1.200"	346	46600-8	46600ST-8	46600GT-8
595120C-8	595120CE-8	3.572"	5.850"	3.750"	1.200"	353	46620-8	46620ST-8	46620GT-8
595130C-8	595130CE-8	3.582"	5.850"	3.750"	1.200"	358	46630-8	46630ST-8	46630GT-8
-18cc SPHERICAL DISH									
595200C-8	595200CE-8	3.552"	5.850"	3.750"	1.200"	372	46600-8	46600ST-8	46600GT-8
595220C-8	595220CE-8	3.572"	5.850"	3.750"	1.200"	380	46620-8	46620ST-8	46620GT-8
595230C-8	595230CE-8	3.582"	5.850"	3.750"	1.200"	383	46630-8	46630ST-8	46630GT-8
595270C-8	595270CE-8	3.700"	5.850"	3.750"	1.200"	421	46670-8	46670ST-8	46670GT-8
-23cc DISH									
595400C-8	595400CE-8	3.552"	5.850"	3.750"	1.200"	336	46600-8	46600ST-8	46600GT-8
595420C-8	595420CE-8	3.572"	5.850"	3.750"	1.200"	342	46620-8	46620ST-8	46620GT-8
595430C-8	595430CE-8	3.582"	5.850"	3.750"	1.200"	346	46630-8	46630ST-8	46630GT-8
595470C-8	595470CE-8	3.700"	5.850"	3.750"	1.200"	384	46670-8	46670ST-8	46670GT-8
-28cc DISH									
595600C-8	595600CE-8	3.552"	5.850"	3.750"	1.200"	341	46600-8	46600ST-8	46600GT-8
595620C-8	595620CE-8	3.572"	5.850"	3.750"	1.200"	347	46620-8	46620ST-8	46620GT-8
595630C-8	595630CE-8	3.582"	5.850"	3.750"	1.200"	351	46630-8	46630ST-8	46630GT-8
595670C-8	595670CE-8	3.700"	5.850"	3.750"	1.200"	389	46670-8	46670ST-8	46670GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .156" 2nd: .152" Oil: .145"

Common Features

Crown Thickness: .185"
 Top Ring: 1.5mm, .220" down
 Second Ring: 1.5mm
 Oil Ring: 3mm
 Round Wire Locks: P/N 42270 - .061" wide

Pin Included: Standard Series: Premium Chrome Moly P/N 42207 (2.500" x .150" wall, 22mm/.866" dia., 106 grams)
 Extreme Duty Series: 9310 Alloy P/N 42507 (2.500" x .210" wall, 22mm/.866" dia., 138 grams)

Recommended Piston Clearance: .003" measured .850" from bottom of the oil ring

Ford 4.6L 2V & 4V Compression Ratio Charts

Bore	Stroke	42cc	51cc	52cc	Bore	Stroke	42cc	51cc	52cc
FLAT TOP					-23cc DISH				
3.552	3.750	13.33	11.43	11.26	3.552	3.750	9.41	8.48	8.39
3.572	3.750	13.47	11.55	11.37	3.572	3.750	9.51	8.57	8.47
3.582	3.750	13.54	11.61	11.43	3.582	3.750	9.55	8.61	8.52
					3.700	3.750	10.08	9.08	8.98
-11cc DISH					-28cc DISH				
3.552	3.750	11.09	9.78	9.65	3.552	3.750	8.87	8.05	7.97
3.572	3.750	11.20	9.88	9.75	3.572	3.750	8.96	8.13	8.05
3.582	3.750	11.25	9.92	9.80	3.582	3.750	9.00	8.17	8.09
					3.700	3.750	9.50	8.62	8.53
-18cc SPHERICAL DISH									
3.552	3.750	10.04	8.97	8.87					
3.572	3.750	10.14	9.06	8.96					
3.582	3.750	10.19	9.11	9.00					
3.700	3.750	10.75	9.61	9.50					

Head Gasket Bore 3.620 (3.552-3.582) 42cc Combustion Chamber is 99-up PI 2V
 Head Gasket Bore 3.700 (3.700) 51cc Combustion Chamber is 91-98 2V
 Compressed Gasket Thickness .036 52cc Combustion Chamber is 93-up 4V
 Deck Clearance .008

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Ford 4.6L SOHC/DOHC 2, 3 & 4 Valve (1991-up)

Turbo Tuff® Design 3.543" & 3.750" Stroke Pistons

- ▶ 2618 high strength material lightweight design
- ▶ 1.2mm offset wrist pin design for quiet start-ups. Mimics OEM design
- ▶ Round wire locks
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ 1.5, 1.5, 3.0mm ring package
- ▶ Vertical Gas Ports designed for high HP Race Engines
- ▶ 9310 alloy .210" wall pin included P/N 42507



2 & 4 Valve Pistons

Standard Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gm	Piston Ring Sets	
						Premium Steel Top Rings	Gapless® Top Rings
-11cc DISH 3.543" STROKE							
567000CE-8	3.552"	5.933"	3.543"	1.220"	363	46600ST-8	46600GT-8
567020CE-8	3.572"	5.933"	3.543"	1.220"	368	46620ST-8	46620GT-8
567030CE-8	3.582"	5.933"	3.543"	1.220"	372	46630ST-8	46630GT-8
567070CE-8	3.700"	5.933"	3.543"	1.220"	403	46670ST-8	46670GT-8
-11cc DISH 3.750" STROKE							
567100CE-8	3.552"	5.850"	3.750"	1.200"	362	46600ST-8	46600GT-8
567120CE-8	3.572"	5.850"	3.750"	1.200"	369	46620ST-8	46620GT-8
567130CE-8	3.582"	5.850"	3.750"	1.200"	373	46630ST-8	46630GT-8
-18cc DISH 3.750" STROKE							
567170CE-8	3.700"	5.850"	3.750"	1.200"	397	46670ST-8	46670GT-8

3 Valve Pistons

Standard Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gm	Piston Ring Sets	
						Premium Steel Top Rings	Gapless® Top Rings
-14cc DISH 3.543" STROKE							
567200CE-8	3.552"	5.933"	3.543"	1.220"	366	46600ST-8	46600GT-8
567220CE-8	3.572"	5.933"	3.543"	1.220"	371	46620ST-8	46620GT-8
567230CE-8	3.582"	5.933"	3.543"	1.220"	375	46630ST-8	46630GT-8
567270CE-8	3.700"	5.933"	3.543"	1.220"	400	46670ST-8	46670GT-8
-14cc DISH 3.750" STROKE							
567300CE-8	3.552"	5.850"	3.750"	1.200"	362	46600ST-8	46600GT-8
567320CE-8	3.572"	5.850"	3.750"	1.200"	366	46620ST-8	46620GT-8
567330CE-8	3.582"	5.850"	3.750"	1.200"	370	46630ST-8	46630GT-8
-18cc DISH 3.750" STROKE							
567370CE-8	3.700"	5.850"	3.750"	1.200"	396	46670ST-8	46670GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .156" 2nd: .152" Oil: .145"

Common Features

Crown Thickness: .250"
 Top Ring: 1.5mm, .270" down
 Second Ring: 1.5mm
 Oil Ring: 3mm
 Max. Valve Sizes: 38.5mm Exh. (3V)
 Round Wire Locks: P/N 42270 - .061" wide

Pin Included: 9310 Alloy P/N 42507
 (2.500" x .210" wall, 22mm/.866" dia., 138 grams)

Recommended
 Piston Clearance: .0035" measured .850" from bottom of the oil ring

Ford 4.6L 2V, 3V & 4V Compression Ratio Charts

Bore	Stroke	42cc	51cc	52cc	Bore	Stroke	51cc
-11cc DISH							
3.552	3.543	10.53	9.29	9.18	3.552	3.543	8.94
3.572	3.543	10.64	9.39	9.27	3.572	3.543	9.03
3.582	3.543	10.69	9.43	9.31	3.582	3.543	9.07
3.700	3.543	11.33	9.99	9.86	3.700	3.543	9.58
-11cc DISH							
3.552	3.750	11.09	9.78	9.65	3.552	3.750	9.41
3.572	3.750	11.20	9.88	9.75	3.572	3.750	9.51
3.582	3.750	11.25	9.92	9.80	3.582	3.750	9.55
-18cc DISH							
3.700	3.750	10.79	9.64	9.53	3.700	3.750	9.64

Head Gasket Bore 3.620 (3.552-3.582)

Head Gasket Bore 3.700 (3.700)

Compressed Gasket Thickness .036

Deck Clearance .008

42cc Combustion Chamber is 99-up PI 2V

51cc Combustion Chamber is 91-98 2V & 04-up 3V

52cc Combustion Chamber is 93-up 4V

PLATINUM SERIES PISTONS

Ford "Coyote" 5.0L Gen I/II DOHC 4 Valve (2011-2017) Stock 3.650" Stroke Pistons

- ▶ 2618 high strength material; Lightweight design
- ▶ Perfect ring groove to skirt squareness
- ▶ Offset wrist pin design for quiet start-ups
- ▶ Pressure balance groove
- ▶ Round wire locks
- ▶ 1.2, 1.2, 3mm ring package
- ▶ .200" deck thickness, .225" down top ring
- ▶ Will accommodate +1mm valve sizes
- ▶ 2.500" x .150" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42507



Note: These pistons are designed for connecting rods with .866" / 22mm diameter floating wrist pins

Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Premium Steel Top Rings
-12cc DISH (9.0:1)							
598100C-8	598100CE-8	3.630"	5.933"	3.650"	1.165"	361	46700ST-8
598105C-8	598105CE-8	3.635"	5.933"	3.650"	1.165"	365	46710ST-8
598110C-8	598110CE-8	3.640"	5.933"	3.650"	1.165"	366	46710ST-8
598170C-8	598170CE-8	3.700"	5.933"	3.650"	1.165"	376	46771ST-8
-2.5cc FLAT TOP (10.0:1)							
598400C-8	598400CE-8	3.630"	5.933"	3.650"	1.165"	365	46700ST-8
598405C-8	598405CE-8	3.635"	5.933"	3.650"	1.165"	368	46710ST-8
598410C-8	598410CE-8	3.640"	5.933"	3.650"	1.165"	370	46710ST-8
598470C-8	598470CE-8	3.700"	5.933"	3.650"	1.165"	380	46771ST-8
+3.75cc DOME (11.0:1)							
598000C-8	598000CE-8	3.630"	5.933"	3.650"	1.165"	391	46700ST-8
598005C-8	598005CE-8	3.635"	5.933"	3.650"	1.165"	393	46710ST-8
598010C-8	598010CE-8	3.640"	5.933"	3.650"	1.165"	395	46710ST-8
598070C-8	598070CE-8	3.700"	5.933"	3.650"	1.165"	398	46771ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .141" 2nd: .143" Oil: .145"

Common Features

Crown Thickness: .200"
 Top Ring: 1.2mm, .225" down
 Second Ring: 1.2mm
 Oil Ring: 3mm
 Max. Valve Sizes: 38.0mm Int./Exh.
 Round Wire Locks: P/N 42270 - .061" wide

Pin Included: Standard Series: Premium Chrome Moly P/N 42207
 (2.500" x .150" wall, 22mm/.886" dia.,
 106 grams)
 Extreme Duty Series: 9310 Alloy P/N 42507
 (2.500" x .210" wall, 22mm/.866" dia.,
 138 grams)
 Recommended
 Piston Clearance: .0030" measured .850" from the bottom of
 the oil ring

PISTONS, RINGS, & PINS

PLATINUM SERIES PISTONS

Ford "Coyote" 5.0L Gen III DOHC 4 Valve (2018-up) Stock 3.650" Stroke Pistons

- ▶ 2618 high strength material; Lightweight design
- ▶ Offset wrist pin design for quiet start-ups
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ Round wire locks
- ▶ 1.2, 1.2, 3.0mm ring package
- ▶ .200" deck thickness, .225" down top ring
- ▶ Will accommodate +1mm valve sizes (except 5959 series)
- ▶ 2.500" x .150" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42507



Note: These pistons are designed for connecting rods with .866" / 22mm diameter floating wrist pins

Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Premium Steel Top Rings
-6.00cc DISH (10.0:1)							
595700C-8	595700CE-8	3.662"	5.933"	3.650"	1.165"	371	46762ST-8
595705C-8	595705CE-8	3.667"	5.933"	3.650"	1.165"	373	46767ST-8
595710C-8	595710CE-8	3.672"	5.933"	3.650"	1.165"	375	46772ST-8
595738C-8	595738CE-8	3.700"	5.933"	3.650"	1.165"	388	46771ST-8
+1.00cc DOME (11.0:1)							
595800C-8	595800CE-8	3.662"	5.933"	3.650"	1.165"	385	46762ST-8
595805C-8	595805CE-8	3.667"	5.933"	3.650"	1.165"	387	46767ST-8
595810C-8	595810CE-8	3.672"	5.933"	3.650"	1.165"	389	46772ST-8
595838C-8	595838CE-8	3.700"	5.933"	3.650"	1.165"	398	46771ST-8
+6.75cc DOME (12.0:1)							
595900C-8*	595900CE-8*	3.662"	5.933"	3.650"	1.165"	398	46762ST-8
595905C-8*	595905CE-8*	3.667"	5.933"	3.650"	1.165"	401	46767ST-8
595910C-8*	595910CE-8*	3.672"	5.933"	3.650"	1.165"	405	46772ST-8
595938C-8*	595938CE-8*	3.700"	5.933"	3.650"	1.165"	411	46771ST-8

*Designed for OEM valve sizes and mild camshafts.

Note: These blocks feature a spray bore lining. Blocks must be sleeved for oversized bore pistons.

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .141" 2nd: .143" Oil: .145"

Common Features

Crown Thickness: .200"
 Top Ring: 1.2mm, .225" down
 Second Ring: 1.2mm
 Oil Ring: 3mm
 Max. Valve Sizes: 35.0mm Int./Exh. (5957/5958 Series)
 34.0mm Int./Exh. (5959 Series)
 Round Wire Locks: P/N 42270 - .061" wide

Pin Included: Standard Series: Premium Chrome Moly P/N 42207
 (2.500" x .150" wall, 22mm/.886" dia., 106 grams)
 Extreme Duty Series: 9310 Alloy P/N 42507
 (2.500" x .210" wall, 22mm/.866" dia., 138 grams)
 Recommended Piston Clearance: .0030" measured .850" from the bottom of the oil ring

PISTONS, RINGS, & PINS

PLATINUM SERIES PISTONS

Ford 5.4L SOHC/DOHC 2, 3 & 4 Valve (1991-up)

Stock 4.165" Stroke Pistons

- ▶ 2618 high strength material lightweight design
- ▶ 1.2mm offset wrist pin design for quiet start-ups. Mimics OEM design
- ▶ Round wire locks
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ 1.5, 1.5, 3.0mm ring package
- ▶ 2.500" x .150" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42507
- ▶ Full banded skirt design for increased skirt stability



Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gm	Piston Ring Sets		
							Ductile Iron Top Rings	Premium Steel Top Rings	Gapless® Top Rings
FLAT TOP									
594000C-8	594000CE-8	3.552"	6.657"	4.165"	1.220"	335	46600-8	46600ST-8	46600GT-8
594020C-8	594020CE-8	3.572"	6.657"	4.165"	1.220"	345	46620-8	46620ST-8	46620GT-8
594030C-8	594030CE-8	3.582"	6.657"	4.165"	1.220"	350	46630-8	46630ST-8	46630GT-8
594070C-8	594070CE-8	3.700"	6.657"	4.165"	1.220"	388	46670-8	46670ST-8	46670GT-8
-11cc DISH									
594100C-8	594100CE-8	3.552"	6.657"	4.165"	1.220"	350	46600-8	46600ST-8	46600GT-8
594120C-8	594120CE-8	3.572"	6.657"	4.165"	1.220"	355	46620-8	46620ST-8	46620GT-8
594130C-8	594130CE-8	3.582"	6.657"	4.165"	1.220"	362	46630-8	46630ST-8	46630GT-8
594170C-8	594170CE-8	3.700"	6.657"	4.165"	1.220"	401	46670-8	46670ST-8	46670GT-8
-18cc SPHERICAL DISH									
594200C-8	594200CE-8	3.552"	6.657"	4.165"	1.220"	384	46600-8	46600ST-8	46600GT-8
594220C-8	594220CE-8	3.572"	6.657"	4.165"	1.220"	390	46620-8	46620ST-8	46620GT-8
594230C-8	594230CE-8	3.582"	6.657"	4.165"	1.220"	393	46630-8	46630ST-8	46630GT-8
594270C-8	594270CE-8	3.700"	6.657"	4.165"	1.220"	431	46670-8	46670ST-8	46670GT-8
-23cc DISH									
594400C-8	594400CE-8	3.552"	6.657"	4.165"	1.220"	351	46600-8	46600ST-8	46600GT-8
594420C-8	594420CE-8	3.572"	6.657"	4.165"	1.220"	359	46620-8	46620ST-8	46620GT-8
594430C-8	594430CE-8	3.582"	6.657"	4.165"	1.220"	363	46630-8	46630ST-8	46630GT-8
594470C-8	594470CE-8	3.700"	6.657"	4.165"	1.220"	401	46670-8	46670ST-8	46670GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .156" 2nd: .152" Oil: .145"

Common Features

Crown Thickness: .185"
 Top Ring: 1.5mm, .220" down
 Second Ring: 1.5mm
 Oil Ring: 3mm
 Round Wire Locks: P/N 42270 - .061" wide

Pin Included: Standard Series: Premium Chrome Moly P/N 42207 (2.500" x .150" wall, 22mm/.866" dia., 106 grams)
 Extreme Duty Series: 9310 Alloy P/N 42507 (2.500" x .210" wall, 22mm/.866" dia., 138 grams)

Recommended Piston Clearance: .003" measured .850" from bottom of the oil ring

Ford 5.4L 2V, 3V & 4V Compression Ratio Charts

Bore	Stroke	42cc	51cc	52cc	Bore	Stroke	42cc	51cc	52cc
FLAT TOP					-18cc SPHERICAL DISH				
3.552	4.165	11.01	9.83	9.72	3.552	4.165	8.91	8.15	8.08
3.572	4.165	11.09	9.91	9.79	3.572	4.165	8.97	8.22	8.14
3.582	4.165	11.13	9.95	9.83	3.582	4.165	9.01	8.25	8.17
3.700	4.165	11.56	10.35	10.23	3.700	4.165	9.39	8.61	8.53
-11cc DISH					-23cc DISH				
3.552	4.165	9.61	8.72	8.64	3.552	4.165	8.47	7.79	7.73
3.572	4.165	9.68	8.79	8.70	3.572	4.165	8.53	7.85	7.79
3.582	4.165	9.72	8.83	8.74	3.582	4.165	8.57	7.89	7.82
3.700	4.165	10.15	9.23	9.14	3.700	4.165	8.93	8.23	8.16

Head Gasket Bore 3.620 (3.552-3.582)

Head Gasket Bore 3.700 (3.700)

Compressed Gasket Thickness .036

Deck Clearance .120

42cc Combustion Chamber is 99-up PI 2V

51cc Combustion Chamber is 91-98 2V & 04-up 3V

52cc Combustion Chamber is 93-up 4V

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

Ford 5.4L SOHC/DOHC 2, 3 & 4 Valve (1991-up)

Turbo Tuff® Design Stock 4.165" Stroke Pistons

- ▶ 2618 high strength material lightweight design
- ▶ 1.2mm offset wrist pin design for quiet start-ups. Mimics OEM design
- ▶ Round wire locks
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ 1.5, 1.5, 3.0mm ring package
- ▶ Vertical Gas Ports designed for high HP Race Engines
- ▶ 9310 alloy .210" wall pin included P/N 42507



Standard Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gm	Premium Steel Top Rings	Gapless® Top Rings
				-11cc DISH			
567000CE-8	3.552"	6.657"	4.165"	1.220"	363	46600ST-8	46600GT-8
567020CE-8	3.572"	6.657"	4.165"	1.220"	368	46620ST-8	46620GT-8
567030CE-8	3.582"	6.657"	4.165"	1.220"	372	46630ST-8	46630GT-8
567070CE-8	3.700"	6.657"	4.165"	1.220"	TBA	46670ST-8	46670GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .156" 2nd: .152" Oil: .145"

Common Features

Crown Thickness: .250"
Top Ring: 1.5mm, .270" down
Second Ring: 1.5mm
Oil Ring: 3mm
Round Wire Locks: P/N 42270 - .061" wide

Pin Included: 9310 Alloy P/N 42507
(2.500" x .210" wall, 22mm/.866" dia., 138 grams)

Recommended Piston Clearance: .0035" measured .850" from bottom of the oil ring

Ford 5.4L 2V, 3V & 4V Compression Ratio Chart

Bore	Stroke	42cc	51cc	52cc
3.552	4.165	9.61	8.72	8.64
3.572	4.165	9.68	8.79	8.70
3.582	4.165	9.72	8.83	8.74
3.700	4.165	10.15	9.23	9.14

Head Gasket Bore 3.620 (3.552-3.582)

Head Gasket Bore 3.700 (3.700)

Compressed Gasket Thickness .036

Deck Clearance .120

42cc Combustion Chamber is 99-up PI 2V

51cc Combustion Chamber is 91-98 2V & 04-up 3V

52cc Combustion Chamber is 93-up 4V

Ford 5.8L DOHC 4 Valve Shelby GT500 (2013-2014)

Stock 4.165" Stroke Pistons

- ▶ 2618 high strength material lightweight design
- ▶ 1.2mm offset wrist pin design for quiet start-ups. Mimics OEM design
- ▶ Round wire locks
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ 1.5, 1.5, 3.0mm ring package
- ▶ 2.500" x .150" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42507
- ▶ Full banded skirt design for increased skirt stability



Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Comp Distance	Piston Wt / Gm	Piston Ring Sets Premium Steel Top Rings
				-11cc DISH			
594600C-8	594600CE-8	3.681"	6.657"	4.165"	1.220"	395	46668ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .150" 2nd: .156" Oil: .150"

Common Features

Crown Thickness: .200"
Top Ring: 1.5mm, .225" down
Second Ring: 1.5mm
Oil Ring: 3mm
Round Wire Locks: P/N 42270 - .061" wide

Pin Included: Standard Series: Premium Chrome Moly P/N 42207
(2.500" x .150" wall, 22mm/.866" dia., 106 grams)
Extreme Duty Series: 9310 Alloy P/N 42507
(2.500" x .210" wall, 22mm/.866" dia., 138 grams)

Recommended Piston Clearance: .003" measured .850" from bottom of the oil ring

Ford 5.8L 4V Compression Ratio Chart

Bore	Stroke	53cc
3.681	-11cc DISH 4.165	9.30

Head Gasket Bore 3.700 (3.700)

Compressed Gasket Thickness .036

Deck Clearance .100

PLATINUM SERIES PISTONS

Ford "Raptor" 6.2L SOHC 2 Valve

Stock 3.740" Stroke Pistons

- ▶ 2618 high strength material; Lightweight design
- ▶ Offset wrist pin design for quiet start-ups
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ 1.5, 1.5, 3mm ring package
- ▶ Will accommodate +1mm valve sizes
- ▶ .200" deck thickness, .300" down top ring
- ▶ 2.300" length .150" Wall Premium Chrome Moly pin P/N 42442 included with round wire locks
- ▶ 9310 alloy pin upgrade is also available: P/N 42542 2.300" x .210" wall

Note: These pistons are designed for connecting rods with .927" diameter floating wrist pins



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Ductile Iron Top Rings	Premium Steel Top Rings
-12cc DISH (9.0:1)								
598300C-8	4.0169"	6.200"	3.740"	1.315"	443	553	46111-8	46111ST-8
598305C-8	4.0200"	6.200"	3.740"	1.315"	445	555	46112-8	46112ST-8
+7.5cc DOME (11.0:1)								
598200C-8	4.0169"	6.200"	3.740"	1.315"	480	590	46111-8	46111ST-8
598205C-8	4.0200"	6.200"	3.740"	1.315"	482	592	46112-8	46112ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .155" 2nd: .170" Oil: .145"

Common Features

- Crown Thickness: .200"
- Top Ring: 1.5mm, .300" down
- Second Ring: 1.5mm
- Oil Ring: 3mm
- Max. Valve Sizes: 55.5mm Int., 44.5mm Exh.
- Round Wire Locks: P/N 42262 - .061" wide

- Pin Included: Premium Chrome Moly P/N 42442 (2.300" x .150" wall, .927" dia., 110 grams)
- Recommended Piston Clearance: .0045" measured 1.100" from the bottom of the oil ring

Toyota 5.7L 3UR-FE (2007-Up)

Stock 4.016" Stroke Pistons

- ▶ 2618 high strength material
- ▶ Offset wrist pin for quiet start-ups
- ▶ Perfect ring groove to skirt squareness
- ▶ Pressure balance groove
- ▶ 1.2, 1.2, 3mm ring package
- ▶ .260" deck thickness, .350" down top ring
- ▶ 2.250" length .210" Wall Premium Chrome Moly pin (Standard Series) or 9310 alloy .210" wall pin (Extreme Duty Series) included
- ▶ Premium Steel top rings and round wire locks included
- ▶ Recommended piston clearance .0035" measured .850" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Included Ring Set
648000C-8	648000CE-8	3.7005"	6.476"	4.016"	1.328"	407	532	46940-8
-14cc DISH (12.5:1)								
648100C-8	648100CE-8	3.7005"	6.476"	4.016"	1.328"	387	512	46940-8
648102C-8	648102CE-8	94.25	6.476"	4.016"	1.328"	395	520	46942-8
648103C-8	648103CE-8	94.35	6.476"	4.016"	1.328"	396	521	46943-8
648105C-8	648105CE-8	94.5	6.476"	4.016"	1.328"	397	522	46945-8
648106C-8	648106CE-8	94.65	6.476"	4.016"	1.328"	399	524	46946-8
-30cc DISH (10.0:1)								
648200C-8	648200CE-8	94.0	6.476"	4.016"	1.328"	390	515	46940-8
648202C-8	648202CE-8	94.25	6.476"	4.016"	1.328"	392	517	46942-8
648203C-8	648203CE-8	94.35	6.476"	4.016"	1.328"	394	519	46943-8
648205C-8	648205CE-8	94.5	6.476"	4.016"	1.328"	396	521	46945-8
648206C-8	648206CE-8	94.65	6.476"	4.016"	1.328"	400	525	46946-8

Common Features

- Crown Thickness: .260"
- Top Ring: 1.2mm, .350" down
- Second Ring: 1.2mm
- Oil Ring: 3.0mm
- Max. Valve Sizes: 39.0mm Int./Exh.
- Valve Notches: .235" Int./Exh.

- Pin Included: Standard Series: Premium Chrome Moly P/N 42451 (.210" wall, 125 grams, 2.250" long, 22mm dia.) Extreme Duty Series: 9310 Alloy P/N 42551 (.210" wall, 125 grams, 2.250" long, 21mm dia.)
- Round Wire Locks: P/N 42270

Note: New part numbers are **BOLD & ITALICIZED**

SEE PAGE 131 & 132 FOR CUSTOM PISTONS

PISTONS, RINGS, & PINS

CUSTOM PLATINUM SERIES PISTONS

Platinum Pistons Incremental Sizes

Manley Performance will manufacture incremental bore sizes of any listed catalog piston with reasonably short lead times. The minimum quantity is one set.

The ordering process is as simple as 1 - 2 - 3 !

1. Select the catalog part number you wish manufactured with the singular exception of the final bore size.
2. Tell us the bore size of your block. We will manufacture the exact piston number you have selected with proper clearance for your stated block dimension.
3. You will be billed by our forging number, not the catalog part number with only a 10% increase in cost over the catalog part number.
4. Moly Skirt Coating is optional where available. Additional charge applies.
5. Chrome Moly pins included. Order upgraded pins separately if desired.

Custom Platinum Series Pistons

Manley Performance inventories the piston forgings listed below to manufacture custom pistons for original equipment engine producers, private label engine part suppliers and volume performance engine builders.

Custom Blank Billing Numbers

Part No.	Bore Range	Application	Type	Wrist Pin Length
581200-4 or 581200-6	80.5mm - 90mm	Ford, Honda/Acura, Hyundai, Mazda, Mitsubishi, Subaru, Toyota	Dish, Flat Top, Dome	2.250" - 2.500"
581700-4 or 581700-6	84mm - 90mm	Ford, Honda/Acura, Hyundai, Mazda, Mitsubishi, Subaru, Toyota	Dish, Flat Top, Dome	2.250" - 2.300"
588000SC-4 or 588000SC-6	87.5mm - 103mm	Ford, Nissan, Subaru	Dish, Flat Top, Dome	2.250" - 2.500"
582000-4 or 582000-6	87.5mm - 103mm	Nissan VR38DETT with .990" Wrist Pin Diam.	Dish, Flat Top, Dome	2.250" - 2.500"
581600-4	98.5mm - 104mm	Subaru	Dish, Flat Top	2.300" - 2.500"
581400SC-4 or 581400SC-6	98.5mm - 108mm	Subaru	Dish, Flat Top	2.250" - 2.500"
581800SC-4 or 581800SC-6	98.5mm - 108mm	Nissan, Subaru, Toyota	Dish, Flat Top	2.250" - 2.500"
582100SC-4	99mm - 104mm	Subaru	Dish, Flat Top	2.250" - 2.500"
488000-8	3.550" - 3.700"	Ford 4.6L, 5.0L, 5.4L and 5.8L	Dish, Flat Top	2.500"
588000-8	3.430" - 4.050"	Ford 4.6L, 5.0L, 5.4L and 5.8L	Dish, Flat Top, Dome	2.250" - 2.750"
581400-8	3.875" - 4.250"	Small Block Chevy LS and Chrysler Hemi 5.7L, 6.1L and 6.4L	Dish, Flat Top, Dome	2.250" - 2.950"
581800-8	3.875" - 4.250"	Small Block Chevy LS	Dish, Flat Top	2.250" - 2.500"
581000-8	4.000" - 4.155"	Small Block Chevy Early Model LT-1 / 2 and 4 Barrel Design	Dish, Flat Top	2.250" - 2.750"
586000-8	4.470" - 4.675"	Big Block Chevy	Dish, Flat Top, Dome	2.750" - 2.950"
581100-8	4.500" - 4.700"	Big Block Chevy High Comp.	Hollow Dome	2.750" - 2.950"

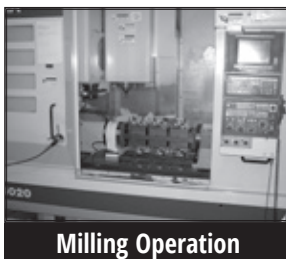
Optional Additional Cost Machining Operations

Part No.	Operation
04003-1	Fly Cut Shelf Stock Piston
04011-1	Internal Mill - Max. Lightening
04012-1	Gas Port - Vertical (Up to 12)
04013-1	Gas Port - Lateral (Up to 12)
04014-1	Anodize Top Ring Groove
04015-1	Ceramic Coat Top of Piston
04016-1	Moly Skirt Coating
04016-4	Moly Skirt Coating (4 cyl.)
04017-6	Moly Skirt Coating (6 cyl.)
04018-8	Moly Skirt Coating (8 cyl.)
04058	2 Week Rush Charge
04059	3 Week Rush Charge



Minimum Quantities For Custom Pistons

Minimum quantities depend on the variance from pistons we have previously produced, but in general, reasonably small numbers can be manufactured on a one time order basis. Please contact your Manley representative for more details.





Custom Piston Order Form

1960 Swarthmore Ave. Lakewood, NJ 08701

Phone (732) 905-3366 Fax (732) 905-3010

www.manleyperformance.com

CUSTOMER INFORMATION

Customer #: _____

Customer Name: _____

Date: _____

Purchase Order #: _____

Ship Via: _____

Quantity (pcs): _____

ENGINE/APPLICATION

Engine Make: _____ Model: _____

Cubic Inch/Liters: _____ No. of Cyl: _____

Application: Oval Drag Street

Induction: N/A Nitrous Blower/Turbo

Total Engine HP: _____ Max RPM: _____

Max Boost PSI: _____ Nitrous HP: _____

CUSTOM SPECIFICATION INFORMATION

Bore Size: _____ Comp. Hgt.: _____

Stroke: _____ Rod Length: _____

Rod Material: _____ P/E Width: _____

Rod Thickness Above Pin: _____

Deck Hgt.: _____ Deck Clearance: _____

Cyl. Bore Length: _____ Comp. Ratio: _____

Combustion Chamber Volume (cc): _____

Head Gasket - Thickness: _____ ID: _____

Piston Type: Flat Top Dish Dome

Dish/Dome Volume (cc): _____

Land Widths - 1st: _____ 2nd: _____ 3rd: _____

Purchasing Rings With Order: Yes No

Req. Axial Width - Top: _____ 2nd: _____ Oil: _____

Ring Type - Top: Moly AP Steel Gapless

2nd: Taper Face Napier Gapless

Oil (lbs.): _____

If not purchasing rings please provide:

Ring Axial Width - Top: _____ 2nd: _____ Oil: _____

Ring Radial Width - Top: _____ 2nd: _____ Oil: _____

Gas Ports: Yes No

If yes: Lateral Vertical No. of Gas Ports: _____

(Gas Ports are an additional charge)

Pins With Order: Yes No

(Chrome Moly Pins are included with pistons)

(9310 Material Pins are an additional charge)

Wrist Pin Material: Chrome Moly 9310

Pin Diameter: _____ Pin Length: _____

Wrist Pin Lock P/N: _____

(All locks ordered with pistons are NO CHARGE)

Number of Valves per Cylinder: _____

Valve Diam. - Int: _____ Exh: _____

Pocket Depth - Int: _____ Exh: _____

Pocket Angle - Int: _____ Exh: _____

Side Cut Style: Full Band Modified Full Band

Semi Band No Band

Crown Thickness Below Dish/Dome: _____

Skirt Wall Thickness: _____

Moly Skirt Coated: Yes No

(Additional Charge - Not Available on all Customs)

Ceramic Thermal Barrier Crown Coating

Yes No

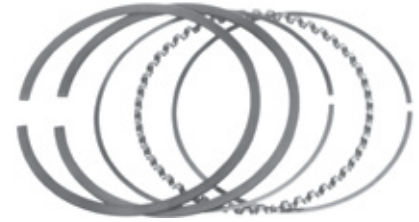
(Additional Charge Applies)

Top Ring Groove Anodizing: Yes No

(Additional Charge Applies)

Manley Piston Rings

Manley Performance Products, Inc., offers High Performance Piston Rings to compliment our line of Platinum Series Pistons.



Manley stocks conventional style piston ring sets and Premium Steel top ring versions. The conventional sets feature high performance ductile iron (with plasma moly in-lay) top rings, reverse twist cast iron taper face or Napier style second rings (where noted *) and 3 piece oil rings. The Premium Steel top ring sets are ideal for high horsepower and forced induction/nitrous applications. Manley also offers Total Seal® famed Gapless® top ring packages for many of our piston applications.

All Premium Steel ring sets and Gapless® top ring sets utilize Napier style second rings standard.

Ductile Iron Part No.	Premium Steel Part No.	Total Seal® Gapless® Part No.	Bore Size	File Fit / Drop In	Ring Widths	Oil Ring Tension
5.3L CHEVROLET LS/L83						
46500-8	46500ST-8	-----	3.780" / 3.785"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
46510-8	46510ST-8	-----	3.790"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
46520-8	46520ST-8	-----	3.800"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
3.905" CHEVROLET LS-1						
46107-8	46107ST-8	46107GT-8	3.905" / 3.910"	File Fit / Drop In	1.5mm x 1.5mm x 3mm	9-13 lbs.
4" CHEVROLET & 6.2L FORD RAPTOR						
46350-8	-----	46350GT-8	4.000"	File Fit	1/16" x 1/16" x 3/16"	18-22 lbs.
46352-8	-----	46352GT-8	4.020"	File Fit	1/16" x 1/16" x 3/16"	18-22 lbs.
46353-8	-----	46353GT-8	4.030"	File Fit	1/16" x 1/16" x 3/16"	18-22 lbs.
46355-8	-----	46355GT-8	4.035"	File Fit	1/16" x 1/16" x 3/16"	18-22 lbs.
46354-8	-----	46354GT-8	4.040" / 4.045"	File Fit / Drop In	1/16" x 1/16" x 3/16"	18-22 lbs.
46356-8	-----	46356GT-8	4.060" / 4.065"	File Fit / Drop In	1/16" x 1/16" x 3/16"	18-22 lbs.
46110-8	46110ST-8	46110GT-8	4.001" / 4.005"	File Fit / Drop In	1.5mm x 1.5mm x 3mm	9-13 lbs.
46111-8	46111ST-8	46111GT-8	4.010" / 4.015"	File Fit / File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46112-8	46112ST-8	46112GT-8	4.020"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46113-8	46113ST-8	46113GT-8	4.030"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46115-8	46115ST-8	46115GT-8	4.035"	Drop In	1.5mm x 1.5mm x 3mm	9-13 lbs.
46114-8	46114ST-8	46114GT-8	4.040"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46116-8	46116ST-8	46116GT-8	4.060" / 4.065"	File Fit / Drop In	1.5mm x 1.5mm x 3mm	9-13 lbs.
46117-8	46117ST-8	46117GT-8	4.070" / 4.075"	File Fit / Drop In	1.5mm x 1.5mm x 3mm	9-13 lbs.
46118-8	46118ST-8	46118GT-8	4.080"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46123-8*	46123ST-8	-----	4.030"	File Fit	1.5mm x 1.5mm x 3mm	12-16 lbs.
46125-8*	46125ST-8	-----	4.035"	Drop In	1.5mm x 1.5mm x 3mm	12-16 lbs.
46124-8*	46124ST-8	-----	4.040"	File Fit	1.5mm x 1.5mm x 3mm	12-16 lbs.
46126-8*	46126ST-8	-----	4.060"	File Fit	1.5mm x 1.5mm x 3mm	12-16 lbs.
46213-8	-----	46213GT-8	4.030"	File Fit	.043" x .043" x 3mm	9-13 lbs.
46215-8	-----	46215GT-8	4.035"	Drop In	.043" x .043" x 3mm	9-13 lbs.
46214-8	-----	46214GT-8	4.040" / 4.045"	File Fit / Drop In	.043" x .043" x 3mm	9-13 lbs.
46217-8	-----	-----	4.050" / 4.055"	File Fit / Drop In	.043" x .043" x 3mm	9-13 lbs.
46216-8	-----	46216GT-8	4.060" / 4.065"	File Fit / Drop In	.043" x .043" x 3mm	9-13 lbs.
46223-8	46223ST-8	-----	4.030"	File Fit	.043" x .043" x 3mm	12-16 lbs.
46225-8	46225ST-8	-----	4.035"	Drop In	.043" x .043" x 3mm	12-16 lbs.
46224-8	46224ST-8	-----	4.040"	File Fit	.043" x .043" x 3mm	12-16 lbs.
46226-8	46226ST-8	-----	4.060" / 4.065"	File Fit / Drop In	.043" x .043" x 3mm	12-16 lbs.

* Napier style second ring

Total Seal® and Gapless® are registered trademarks of Total Seal, Inc.

Ring sets continued on next page

Note: New part numbers are **BOLD & ITALICIZED**

PISTON RINGS

Manley Piston Rings

Ductile Iron Part No.	Premium Steel Part No.	Total Seal® Gapless® Part No.	Bore Size	File Fit / Drop In	Ring Widths	Oil Ring Tension
4" CHEVROLET LT1						
-----	46016ST-8	-----	4.065"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
-----	46017ST-8	-----	4.070" / 4.075"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
-----	46018ST-8	-----	4.080"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
4 1/8" CHEVROLET						
46160-8	-----	46160GT-8	4.125"	File Fit	1/16" x 1/16" x 3/16"	18-22 lbs.
46163-8	-----	46163GT-8	4.155"	File Fit	1/16" x 1/16" x 3/16"	18-22 lbs.
46360-8	46360ST-8	46360GT-8	4.125"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46361-8	46361ST-8	46361GT-8	4.130"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46362-8	46362ST-8	46362GT-8	4.135"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46363-8	46363ST-8	46363GT-8	4.155"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46364-8	46364ST-8	46364GT-8	4.165"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46366-8	46366ST-8	46366GT-8	4.185"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46260-8	-----	46260GT-8	4.125"	File Fit	.043" x .043" x 3mm	9-13 lbs.
46263-8	-----	46263GT-8	4.155"	File Fit	.043" x .043" x 3mm	9-13 lbs.
4 1/8" CHEVROLET LT1						
46060-8	46060ST-8	-----	4.125"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
46061-8	46061ST-8	-----	4.130"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
46062-8	46062ST-8	-----	4.135"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
4.500" CHEVROLET						
46450-8	-----	46450GT-8	4.500"	File Fit	1/16" x 1/16" x 3/16"	21-25 lbs.
46453-8	-----	46453GT-8	4.530"	File Fit	1/16" x 1/16" x 3/16"	21-25 lbs.
46456-8	-----	46456GT-8	4.560"	File Fit	1/16" x 1/16" x 3/16"	21-25 lbs.
46458-8	-----	46458GT-8	4.600"	File Fit	1/16" x 1/16" x 3/16"	21-25 lbs.
46461-8	-----	-----	4.610"	File Fit	1/16" x 1/16" x 3/16"	21-25 lbs.
46459-8	-----	46459GT-8	4.625"	File Fit	1/16" x 1/16" x 3/16"	21-25 lbs.
46550-8	46550ST-8	46550GT-8	4.500"	File Fit	.043" x .043" x 3/16"	16-20 lbs.
-----	46553ST-8	46553GT-8	4.530"	File Fit	.043" x .043" x 3/16"	16-20 lbs.
46556-8	46556ST-8	46556GT-8	4.560"	File Fit	.043" x .043" x 3/16"	16-20 lbs.
46558-8	46558ST-8	46558GT-8	4.600"	File Fit	.043" x .043" x 3/16"	16-20 lbs.
46561-8	-----	-----	4.610"	File Fit	.043" x .043" x 3/16"	16-20 lbs.
46559-8	46559ST-8	46559GT-8	4.625"	File Fit	.043" x .043" x 3/16"	16-20 lbs.
5.7L CHRYSLER HEMI						
46120-8	46120ST-8	46120GT-8	99.5mm / 3.917"	File Fit	1.5mm x 1.5mm x 3mm	12-16 lbs.
46121-8	46121ST-8	46121GT-8	99.6mm / 3.922"	Drop In	1.5mm x 1.5mm x 3mm	12-16 lbs.
46122-8	46122ST-8	46122GT-8	100.0mm / 3.937"	File Fit	1.5mm x 1.5mm x 3mm	12-16 lbs.
6.1L CHRYSLER HEMI						
46116-8	46116ST-8	46116GT-8	4.060" / 4.065"	File Fit / Drop In	1.5mm x 1.5mm x 3mm	9-13 lbs.
46118-8	46118ST-8	46118GT-8	4.080"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
6.2L CHRYSLER HEMI						
-----	46132ST-8	-----	4.090"	File Fit	1.2mm x 1.2mm x 2.5mm	8-12 lbs.
-----	46133ST-8	-----	4.095"	File Fit	1.2mm x 1.2mm x 2.5mm	8-12 lbs.
-----	46134ST-8	-----	4.100"	File Fit	1.2mm x 1.2mm x 2.5mm	8-12 lbs.
6.4L CHRYSLER HEMI						
-----	46129ST-8	-----	4.090"	File Fit	1.5mm x 1.5mm x 3mm	12-16 lbs.
-----	46130ST-8	-----	4.095"	File Fit	1.5mm x 1.5mm x 3mm	12-16 lbs.
-----	46131ST-8	-----	4.100"	File Fit	1.5mm x 1.5mm x 3mm	12-16 lbs.

Manley Piston Rings

Ductile Iron Part No.	Premium Steel Part No.	Total Seal® Gapless® Part No.	Bore Size	File Fit / Drop In	Ring Widths	Oil Ring Tension
2.3L FORD ECOBOOST						
-----	46875-4	-----	87.5mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
-----	46876-4	-----	87.6mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
-----	46880-4	-----	88.0mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
3.5L FORD ECOBOOST						
-----	46642ST-6	-----	3.642"	File Fit	1.2mm x 1.2mm x 2.5mm	9-13 lbs.
-----	46652ST-6	-----	3.652"	File Fit	1.2mm x 1.2mm x 2.5mm	9-13 lbs.
-----	46662ST-6	-----	3.662"	File Fit	1.2mm x 1.2mm x 2.5mm	9-13 lbs.
3.7L FORD CYCLONE						
-----	46760ST-6	-----	3.760"	File Fit	1.2mm x 1.5mm x 2.5mm	12-16 lbs.
-----	46770ST-6	-----	3.770"	File Fit	1.2mm x 1.5mm x 2.5mm	12-16 lbs.
-----	46780ST-6	-----	3.780"	File Fit	1.2mm x 1.5mm x 2.5mm	12-16 lbs.
4.6L & 5.4L FORD						
46600-8	46600ST-8	46600GT-8	3.552"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
-----	46605ST-8	46605GT-8	3.557"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46620-8	46620ST-8	46620GT-8	3.572"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46630-8	46630ST-8	46630GT-8	3.582"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
46670-8	46670ST-8	46670GT-8	3.700"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
5.0L FORD COYOTE GEN I/II						
-----	46700ST-8	-----	3.630"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
-----	46710ST-8	-----	3.635" / 3.640"	File Fit / File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
-----	46771ST-8	-----	3.700"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
5.0L FORD COYOTE GEN III						
-----	46762ST-8	-----	3.662"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
-----	46767ST-8	-----	3.667"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
-----	46772ST-8	-----	3.672"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
-----	46771ST-8	-----	3.700"	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.
5.8L FORD GT500						
-----	46668ST-8	-----	3.681"	File Fit	1.5mm x 1.5mm x 3mm	9-13 lbs.
TOYOTA 5.7L 3UR-FE						
-----	46940-8	-----	94.0mm	File Fit	1.2mm x 1.2mm x 3mm	9-13 lbs.

Groove Lock Spacers

Should your custom Platinum Piston requirements necessitate the wrist pin hole break into the oil ring groove, we can widen the oil ring groove and incorporate a groove lock spacer in one of the following sizes listed below. Manley radial tension design ("RTD") groove lock spacers have replaced the old-school, dimpled style pieces. Our pistons requiring G/L spacers are manufactured with a "receiver groove" within the oil ring groove where the RTD G/L spacers snap into place. The radial tension prevents rotation.

Part No.	Quantity	Bore Size	Oil Ring Width	Gram Weight Per Spacer	Part No.	Quantity	Bore Size	Oil Ring Width	Gram Weight Per Spacer
462458-4	4 pcs.	85mm to 85.5mm	2.8mm	5.4	462482-8	8 pcs.	4.030" to 4.060"	3/16"	9.3
462459-4	4 pcs.	86mm to 86.75mm	2.8mm	5.5	462484-8	8 pcs.	4.060" to 4.080"	3mm	7.4
462460-4	4 pcs.	87mm	2.8mm	5.2	462490-8	8 pcs.	4.090" to 4.100"	3mm	7.4
46393-6	6 pcs.	3.633" to 3.647"	3mm	6.5	462485-8	8 pcs.	4.125" to 4.155"	3mm	7.6
462248-8	8 pcs.	3.760" to 3.800"	3mm	6.9	462509-8	8 pcs.	4.125" to 4.155"	3/16"	9.5
461874-6	6 pcs.	98mm	3mm	7.1	462486-8	8 pcs.	4.165" to 4.185"	3mm	7.6
461873-6	6 pcs.	99mm	3mm	7.1	462487-8	8 pcs.	4.500" to 4.530"	3/16"	10.4
462481-8	8 pcs.	3.905" to 3.937"	3mm	7.1	462489-8	8 pcs.	4.560"	3/16"	10.7
461872-6	6 pcs.	100mm	3mm	6.0	462488-8	8 pcs.	4.600" to 4.625"	3/16"	10.7
462483-8	8 pcs.	4.001" to 4.040"	3mm	7.3					

Note: New part numbers are **BOLD & ITALICIZED**

WRIST PIN & LOCKS

Wrist Pins

- ▶ Straight and taper wall construction
- ▶ Large O.D. chamfer pins requiring round wire locks
- ▶ Exacting size control and perfect concentricity
- ▶ Inside of each pin is totally free of tooling marks



Part No.	Quantity	Description	Diameter	Wall Type	Material	Length	Wall Thickness	Lock Rings	Wgt / Grams
42272-6	6 pcs.	Sport Compact	26mm/1.0236"	Straight	Premium Chrome Moly	2.300"	.200"	Tru Arc/Toyota Rnd Wire	152
42572-6	6 pcs.	Sport Compact	26mm/1.0236"	Straight	9310	2.300"	.250"	Tru Arc/Toyota Rnd Wire	178
42219-8	8 pcs.	BB Chevy	.990"	Straight	Premium Chrome Moly	2.930"	.150"	Spiral	147
42220-8	8 pcs.	BB Chevy	.990"	Straight	Premium Chrome Moly	2.930"	.180"	Spiral	170
42201-8	8 pcs.	BB Chevy	.990"	Straight	Premium Chrome Moly	2.930"	.150"	Round Wire	146
42747-6	6 pcs.	Sport Compact	.990"	Taper	Turbo Tuff/DLC	2.500"	.200"-.250"	Round Wire	188
42218-8	8 pcs.	SB Chevy LS	24mm / .945"	Straight	Premium Chrome Moly	2.300"	.120"	Round Wire	90
42241-8	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.300"	.095"	Round Wire	72
42242-8	8 pcs.	SB Chevy/Hemi	.927"	Straight	Premium Chrome Moly	2.300"	.130"	Round Wire	95
42442-8	8 pcs.	SB Chevy/Hemi	.927"	Straight	Premium Chrome Moly	2.300"	.150"	Round Wire	110
42444-8	8 pcs.	SB Chevy/Hemi	.927"	Straight	Premium Chrome Moly	2.300"	.210"	Round Wire	139
42542-8	8 pcs.	SB Chevy/Hemi	.927"	Straight	9310	2.300"	.210"	Round Wire	139
42229-8	8 pcs.	SB Chevy	.927"	Straight	Standard	2.450"	.150"	Round Wire	117
42200-8	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.500"	.125"	Spiral	100
42428-8	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.500"	.150"	Round Wire	118
42528-8	8 pcs.	SB Chevy	.927"	Straight	9310	2.500"	.210"	Round Wire	149
42210-8	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.750"	.125"	Spiral	110
42231-8	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.750"	.125"	Round Wire	109
42213-8	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.950"	.125"	Spiral	117
42647-4	4 pcs.	Sport Compact	23.05mm / .9075"	Straight	Premium Chrome Moly	2.500"	.210"	Tru Arc/Subaru Rnd Wire	147
42660-4	4 pcs.	Sport Compact	23.05mm / .9075"	Straight	9310	2.300"	.250"	Tru Arc/Subaru Rnd Wire	152
42346-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	Premium Chrome Moly	2.500"	.180"	Tru Arc/Subaru Rnd Wire	132
42546-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	9310	2.500"	.210"	Tru Arc/Subaru Rnd Wire	147
42646-6	6 pcs.	Sport Compact	23mm / .9055"	Straight	Premium Chrome Moly	2.500"	.210"	Tru Arc/Subaru Rnd Wire	147
42445-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	Premium Chrome Moly	2.500"	.250"	Tru Arc/Subaru Rnd Wire	165
42547-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	9310	2.500"	.250"	Tru Arc/Subaru Rnd Wire	165
42745-6	6 pcs.	Sport Compact	23mm / .9055"	Straight	Turbo Tuff/DLC	2.500"	.250"	Tru Arc/Subaru Rnd Wire	170
42746-6	6 pcs.	Sport Compact	23mm / .9055"	Straight	Turbo Tuff/DLC	2.500"	.300"	Tru Arc/Subaru Rnd Wire	188
42359-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	Premium Chrome Moly	2.300"	.180"	Tru Arc/Subaru Rnd Wire	121
42459-6	6 pcs.	Sport Compact	23mm / .9055"	Straight	Premium Chrome Moly	2.300"	.210"	Tru Arc/Subaru Rnd Wire	135
42659-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	9310	2.300"	.250"	Tru Arc/Subaru Rnd Wire	152
42353-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	Premium Chrome Moly	2.250"	.180"	Round Wire	119
42553-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	9310	2.250"	.210"	Round Wire	132

Part numbers 42207, 42507 and 42607 are also available for 4 cylinder applications by changing the part number from a (-6) to a (-4)

Part numbers 42646, 42745 and 42746 are also available for 4 cylinder applications by changing the part number from a (-6) to a (-4)

Part numbers 42251, 42551, 42552 and 42651 are also available for 6 cylinder applications by changing the part number from a (-4) to a (-6)

Part number 42532 is also available for 10 cylinder applications by changing the part number from a (-6) to a (-10)

Wrist Pins

- ▶ Straight and taper wall construction
- ▶ Large O.D. chamfer pins requiring round wire locks
- ▶ Exact size control and perfect concentricity
- ▶ Inside of each pin is totally free of tooling marks



Part No.	Quantity	Description	Diameter	Wall Type	Material	Length	Wall Thickness	Lock Rings	Wgt / Grams
42248-4	4 pcs.	Sport Compact	22.5mm / .8858"	Straight	Premium Chrome Moly	2.250"	.150"	Round Wire	100
42548-4	4 pcs.	Sport Compact	22.5mm / .8858"	Straight	9310	2.250"	.210"	Round Wire	128
42648-4	4 pcs.	Sport Compact	22.5mm / .8858"	Straight	9310	2.250"	.250"	Round Wire	141
42251-4	4 pcs.	Sport Compact	22mm / .866"	Straight	Premium Chrome Moly	2.250"	.150"	Round Wire	96
42451-4	4 pcs.	Sport Compact	22mm / .866"	Straight	Premium Chrome Moly	2.250"	.210"	Round Wire	125
42551-4	4 pcs.	Sport Compact	22mm / .866"	Straight	9310	2.250"	.210"	Round Wire	125
42552-4	4 pcs.	Sport Compact	22mm / .866"	Straight	9310	2.250"	.250"	Round Wire	139
42651-4	4 pcs.	Sport Compact	22mm / .866"	Straight	9310	2.250"	.300"	Round Wire	153
42207-8	8 pcs.	Ford 4.6, 5.4L	22mm / .866"	Straight	Premium Chrome Moly	2.500"	.150"	Round Wire	106
42407-8	8 pcs.	Ford 4.6, 5.4L	22mm / .866"	Straight	Premium Chrome Moly	2.500"	.210"	Round Wire	138
42507-8	8 pcs.	Ford 4.6, 5.4L	22mm / .866"	Straight	9310	2.500"	.210"	Round Wire	138
42607-6	6 pcs.	Sport Compact	22mm / .866"	Straight	9310	2.500"	.300"	Round Wire	170
42243-4	4 pcs.	Sport Compact	21mm / .827"	Straight	Premium Chrome Moly	2.250"	.150"	Round Wire	91
42543-4	4 pcs.	Sport Compact	21mm / .827"	Straight	9310	2.250"	.210"	Round Wire	117
42232-6	6 pcs.	Sport Compact	20mm / .787"	Straight	Premium Chrome Moly	2.250"	.150"	Round Wire	87
42532-6	6 pcs.	Sport Compact	20mm / .787"	Straight	9310	2.250"	.210"	Round Wire	109
42632-6	6 pcs.	Sport Compact	20mm / .787"	Straight	H-13	2.250"	.250"	Round Wire	119

Part numbers 42207, 42507 and 42607 are also available for 4 cylinder applications by changing the part number from a (-6) to a (-4)

Part numbers 42646, 42745 and 42746 are also available for 4 cylinder applications by changing the part number from a (-6) to a (-4)

Part numbers 42251, 42551, 42552 and 42651 are also available for 6 cylinder applications by changing the part number from a (-4) to a (-6)

Part number 42407 is also available for 4 cylinder applications by changing the part number from a (-8) to a (-4)

Part number 42532 and 42632 is also available for 10 cylinder applications by changing the part number from a (-6) to a (-10)

Wrist Pin Locks



Part No.	Quantity	Type	Pin Diameter	Description	Weight / Grams Per Lock
42283-12	12 pcs.	.073" Round Wire	26mm / 1.0236"	Toyota Land Cruiser 1FZ-FE	1.5
42271-32	32 pcs.	.042" Spiral	.990"	Big Block Chevrolet	1.2
42245-16	16 pcs.	.061" Round Wire	.990"	Big Block Chevrolet	1.0
42262-16	16 pcs.	.061" Round Wire	.927"	SB Chevy, Chevy LS, Late Model Hemi	1.0
42212-8	8 pcs.	.054" Round Wire	23mm / .9055"	Factory Style Subaru	1.0
42270-16	16 pcs.	.061" Round Wire	21mm / .827", 22mm / .866"	Ford 4.6L / 5.4L, Sport Compact	0.8
42255-12	12 pcs.	.050" Round Wire	20mm / .7869"	Sport Compact	0.6

Part number 42270 is also available for 6 cylinder applications by changing the part number from a (-8) to a (-12)

Part number 42255 is also available for 10 cylinder applications by changing the part number from a (-12) to a (-20)

Note: New part numbers are **BOLD & ITALICIZED**

Manley Performance Steel Connecting Rods

...Often Copied, But Never Duplicated!!!



Sportsmaster® Series

The perfect rod for stock replacement, mild performance applications; particularly where class rules require a “stock appearing” rod. Aircraft quality 4340 alloy forgings, machined cap and outer beam and ARP cap screws make this Manley rod an ideal choice for many budget conscious racers. Lightweight and affordable.



H-Beam Series

Don't be fooled; not all H-Beams are created equal. Manley H-Beams are not only very “economically” priced, but they are finished to the same exacting tolerances and high quality standards as our Sportsmaster® and Pro Series rods. Final hone size, thread detail, bend and twist - these are attributes we take very seriously. You will find the Manley H-Beam rods superior to others on the market. Available with both ARP 8740 and ARP 2000 bolts.



Pro Series I-Beam

The Manley Pro Series I-Beam rod has become the benchmark for fully machined/billet style high end connecting rods in the performance industry. Multiple weight designs targeting specific markets combined with our finely tuned manufacturing process renders a truly outstanding product.

- ▶ *“NHRA Legal” for Stock and Super Stock*
- ▶ *Tour Lites®, Lightweights, Standard Weights and Heavy Weights*
- ▶ *GM Duramax and Ford Powerstroke Diesel*

A WORD ABOUT HORSEPOWER RATINGS...

You will see that we list “horsepower ratings” for each different series/application of Manley connecting rods. However, it is very important to understand that these “ratings” are somewhat subjective. The critical factors that significantly influence the fatigue life of connecting rods (and the horsepower rating) are RPM, stroke, piston weight and power adders. In certain cases, our horsepower ratings may be conservative. Call our tech line if you are unsure based on your specific application.

STEEL CONNECTING RODS

Small Block Chevrolet

H-Beam & H-Tuff Series Rods

Standard Weight Series

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Weight matched sets \pm 1.5 grams
- ▶ Cap fasteners are premium 7/16" ARP 8740 or optional ARP 2000 cap screws
- ▶ Flywheel horsepower range for these rods: 725 HP (ARP 8740), 775 HP (ARP 2000) - Oval Track
750 HP (ARP 8740), 900 HP (ARP 2000) - Drag Race
1000 HP (Oval Track), 1200 HP (Drag Race) - H-Tuff



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 8740 Part No.	ARP 2000 Part No.	Length	Journal Size	Center-to Center	Big End Bore	Pin Bore	Avg. Gram Weight
H-BEAM							
14050-8	14050R-8	Stock	Large	5.700"	2.225"	.9281"	635
14054-8	14054R-8	.300" Longer	Large	6.000"	2.225"	.9281"	640
14056-8	14056R-8	.425" Longer	Small	6.125"	2.125"	.9281"	650
-----	14057R-8	.425" Longer (.866" Pin)	Small	6.125"	2.125"	.8671"	625
14067-8	14067R-8	.550" Longer	Large	6.250"	2.225"	.9281"	660
H-TUFF							
-----	15056R-8	.425" Longer	Small	6.125"	2.125"	.9281"	665
-----	15057R-8	.425" Longer (.866" Pin)	Small	6.125"	2.125"	.8671"	675

These rods are provided with "Low Profile" cap screws enabling extra block and oil pan clearance on stroker applications.



P/Ns 14050-8 and 14050R-8 are NHRA Legal for Stock & Super Stock



P/Ns 14054-8 and 14054R-8 are NHRA Legal for Olds 307, 350, 403

H-Lite Series

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Weight matched sets \pm 1.5 grams
- ▶ Cap fasteners are premium 3/8" ARP 2000 cap screws
- ▶ Flywheel horsepower range for these rods is 600+ HP



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

Part No.	Length	Journal Size	Center-to Center	Big End Bore	Pin Bore	Avg. Gram Weight
14037-8	Stock	Large	5.700"	2.225"	.9281"	585
14034-8	.300" Longer	Large	6.000"	2.225"	.9281"	595

Common Features

Attribute	Dimension
Crankpin Small Journal	2.000"
Crankpin Large Journal	2.100"
Big End Width	.941"
Pin End Width (14050, 14054, 14056, 14067)	1.060"
Pin End Width (14057, 15056, 15057)	.930"

Private brand identification available

Replacement Parts

Part No.	Quantity	Description
42350-4	4 pcs.	3/8" ARP 2000 Cap Screws 1.500" UHL
42354-4	4 pcs.	7/16" ARP 8740 Cap Screws 1.450" UHL
42361-4	4 pcs.	7/16" ARP 8740 Cap Screws 1.600" UHL
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws 1.450" UHL
42249-4	4 pcs.	7/16" ARP 2000 Cap Screws 1.600" UHL
42384-4	4 pcs.	7/16" ARP 2000 Cap Screws 1.650" UHL

Note: New part numbers are **BOLD & ITALICIZED**



STEEL CONNECTING RODS

Small Block Chevrolet

Sportsmaster® Rods

- ▶ Forged from aircraft quality 4340 material
- ▶ Entire beam and cap area is profiled to remove stress raisers and render the lightest possible rod
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 3/8" ARP 8740 cap screw
- ▶ Premium Ampco pin bushings
- ▶ Flywheel horsepower range for these rods is 550 HP at 8000 rpm

Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders



Part No.	Length	Journal Size	Center-to Center	Big End Bore	Pin Bore	Avg. Gram Weight
14101-8	Stock	Large	5.700"	2.225"	.9281"	565
14101ACHA-8	Stock	Large	5.700"	2.225"	.9281"	600
14104-8	Stock	Large	5.700"	2.225"	.8758"	565
14112-8	Stock	Large	5.700"	2.225"	Press	555
14116-8	.150" Longer	Large	5.850"	2.225"	.9281"	580
14103-8	.300" Longer	Large	6.000"	2.225"	.9281"	570
14106-8	Stock LS / LT1	Large, No Offset	6.100"	2.225"	.9281"	575
14114-8	Stock LS / LT1	Large, No Offset	6.100"	2.225"	.9457"	580
with stock 24mm LS / LT1 wrist pin must use pistons with floating pins						
14113-8	.425" Longer	Large	6.125"	2.225"	.9281"	585
14109-8	Stock	Small	5.700"	2.125"	Press	575
14109A-8	Stock	Small	5.700"	2.125"	Press	575
14105-8	Stock	Small	5.700"	2.125"	.9281"	570
14108-8	Stock	Small	5.700"	2.125"	.8758"	575
14107-8	.300" Longer	Small	6.000"	2.125"	.9281"	580

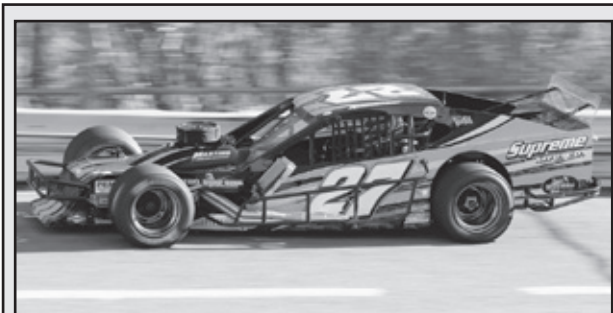
P/N 14106-8 and 14114-8 have no offset on the crank journal, same as the stock LS / LT1 connecting rods

Common Features

Attribute	Dimension
Crankpin Sm. Jnl.	2.000"
Crankpin Lg. Jnl.	2.100"
Big End Width	.940"
Pin End Width	.980"

Replacement Parts

Part No.	Quantity	Description
42383-4	4 pcs.	3/8" ARP 8740 Cap Screws
42310-8	8 pcs.	.927" Ampco Pin Bushings (.990" O.D.)
42366-8	8 pcs.	.927" Ampco Pin Bushings (.997" O.D.)
42308-8	8 pcs.	.875" Ampco Pin Bushings
42385-16	16 pcs.	Dowel Bushings 3/8"



Andrew Krause – Tom Martino Racing Engines
2020 & 2021 Modified Champion
Wall Stadium Speedway



P/Ns 14101-8, 14104-8, 14112-8, 14105-8, 14106-8, 14108-8, 14109-8 and 14114-8 are NHRA Legal for Stock & Super Stock



P/Ns 14101-8, and 14104-8 are legal for Chevy 4.3 V-6
P/N 14103-8 is legal for Olds 307, 350, & 403



P/Ns 14106-8 and 14114-8 are NHRA Legal for Small Block Chevy LS
P/N 14116-8 is NHRA Legal for AMC 390 - 401



P/N 14109A-8 is APBA Legal



P/N 14101ACHA-8 is ACHA / HRL Legal

STEEL CONNECTING RODS

Small Block Chevrolet

NHRA Legal Super Stock

- ▶ Manufactured from 4340 aircraft quality vacuum degassed material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 3/8" ARP 2000 cap screws (14359 has 7/16" ARP 2000)
- ▶ Flywheel horsepower range for these rods is 700+ HP



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

Part No.	Length	Journal Size	Center-to Center	Big End Bore	Pin Bore	Avg. Gram Weight
350 CHEVROLET						
14339-8	Stock 350	Honda	5.700"	2.015"	.8761"	545
14340-8	Stock 350	Honda/IRL	5.700"	2.008"/2.015"	.8671" to .9281"	540
14440-8	Stock 350	Small	5.700"	2.125"	.8761" to .9281"	560
14441-8	Stock 350	Large	5.700"	2.225"	.8761" to .9281"	555
LS CHEVROLET						
14443-8	Stock LS	Honda/IRL	6.100"	2.008"/2.015"	.8671" to .9281"	585
14442-8	Stock LS	Large	6.100"	2.225"	.8761" to .9281"	610
14359-8	.025" Longer LS	Large	6.125"	2.225"	.9281"	615

P/N 14359-8 is for Small Block Chevy LS engines with pistons ready to accept 6.125" length rods. Stock LS rods are 6.100" long. Note the pin bore is .9281". Stock LS pins are .945" diameter. The 14359-8 has no offset on the crank journal, same as the stock LS connecting rods.

P/N's 14340 and 14443 REQUIRE use of one of the connecting rod bearings listed below. To order rods finished to the exact size for Federal Mogul bearings, affix an "F" after the rod part number. For rods finished to exact size for Clevite® bearings, affix a "C" after the rod part number. In addition, you MUST specify which Clevite® bearing will be used.

You must specify the exact final size pin bore desired

Bearing Chart

Bearing Type	Part No.	Big End Bore	Crank Pin
Federal Mogul	7195CH	2.008"	1.8885" Honda
Clevite®	CB1456P	2.008"	1.8885" Honda
Clevite®	CB1663	2.015"	1.8885" Honda
Clevite®	CB1664	2.008"	1.8500" IRL

Common Features

Attribute	Dimension
Crankpin Honda/IRL	1.8885"/1.8500"
Crankpin Sm. Jnl.	2.000"
Crankpin Lg. Jnl.	2.100"
Big End Width	.940"
Pin End Width	1.000"

Replacement Parts

Part No.	Quantity	Description
42350-4	4 pcs.	3/8" ARP 2000 Cap Screws (1.500 UHL)
42351-4	4 pcs.	3/8" ARP 2000 Cap Screws (1.600 UHL)
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws (14359)
42345-8	8 pcs.	Ampco Pin Bushings for .875" pin
42393-8	8 pcs.	Ampco Pin Bushings for .927" pin
42307-8	8 pcs.	Ampco Pin Bushings for 14359
42380-16	16 pcs.	Dowel Bushings 3/8" (14340)
42385-16	16 pcs.	Dowel Bushings 3/8"
42392-16	16 pcs.	Dowel Bushings 7/16" (14359)
40170	1 pc.	Rod Bolt Assembly Lube



Tom Russel's Big Block Stick Shift Stocker

STEEL CONNECTING RODS

Small Block Chevrolet

Tour Lite® I-Beam Rods

4340 Material

- ▶ Forged from 4340 aircraft quality material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ 3/8" ARP 2000, ARP 625+ or 3/8" ARP 3.5 cap screws
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Flywheel horsepower range is 600+ HP

Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders



Part No.	Length	Journal Size	Center-to Center	Big End Bore	Avg. Gram Weight
14339-8	Stock 350	Honda	5.700"	2.015"	548
14340-8	Stock Length	Honda / IRL	5.700"	2.008" / 2.015"	540 / 550
14344-8	.300" Longer	Honda / IRL	6.000"	2.008" / 2.015"	540 / 550
14345-8	.425" Longer	Honda / IRL	6.125"	2.008" / 2.015"	545 / 555

P/N's 14340, 14344 and 14345 REQUIRE use of one of the connecting rod bearings listed below. To order rods finished to the exact size for Federal Mogul bearings, affix an "F" after the rod part number. For rods finished to exact size for Clevite® bearings, affix a "C" after the rod part number. In addition, you MUST specify which Clevite® bearing will be used.

Above rods are supplied with 1.600" under head length 3/8" ARP 2000 cap screw fasteners P/N 42351. Upgraded 3/8" ARP Custom Age 625+ cap screws P/N 42321 or 3/8" ARP 3.5 cap screws P/N 42358 are available. To order upgraded fasteners, affix an "R6" for the ARP Custom Age 625+, "RA" for the ARP 3.5 after the rod part number.

Part No.	Length	Journal Size	Center-to Center	Big End Bore	Avg. Gram Weight
14240-8	Stock Length	Small	5.700"	2.125"	525
14242-8	.150" Longer	Small	5.850"	2.125"	525
14244-8	.300" Longer	Small	6.000"	2.125"	535
14245-8	.425" Longer	Small	6.125"	2.125"	530
14140-8	Stock Length	Large	5.700"	2.225"	520
14142-8	.150" Longer	Large	5.850"	2.225"	530
14144-8	.300" Longer	Large	6.000"	2.225"	530
14145-8	.425" Longer	Large	6.125"	2.225"	535

Above rods are supplied with 1.600" under head length 3/8" ARP 2000 cap screw fasteners P/N 42351. Upgraded 3/8" ARP Custom Age 625+ cap screws P/N 42321 or 3/8" ARP 3.5 cap screws P/N 42358 are available. To order upgraded fasteners, affix an "R6" for the ARP Custom Age 625+, "RA" for the ARP 3.5 after the rod part number.

Lengths other than these typical sizes may become popular after publication of this catalog. Please inquire about lengths not listed as we may have subsequently added applications. Also, we can manufacture 40 pieces of these rods at special lengths for no additional charge.

Replacement Parts

Part No.	Quantity	Description
42351-4	4 pcs.	3/8" ARP 2000 Cap Screws
42321-4	4 pcs.	3/8" ARP Custom Age 625+ Cap Screws
42358-4	4 pcs.	3/8" ARP 3.5 Cap Screws
42310-8	8 pcs.	Ampco Pin Bushings .975" long
42393-8	8 pcs.	Ampco Pin Bushings .995" long
42380-16	16 pcs.	Dowel Bushings 3/8" .900" long
42398-16	16 pcs.	Dowel Bushings 3/8" .960" long
40172	1 pc.	Rod Bolt Assembly Lube

Bearing Chart

Bearing Type	Part No.	Big End Bore	Crank Pin
Federal Mogul	7195CH	2.008"	1.8885" Honda
Clevite®	CB1456P	2.008"	1.8885" Honda
Clevite®	CB1663	2.015"	1.8885" Honda
Clevite®	CB1664	2.008"	1.8500" IRL

Common Features

Attribute	Honda / IRL	Small Journal	Large Journal
Crankpin	1.8885" / 1.8500"	2.000"	2.100"
Pin Bore	.9281"	.9281"	.9281"
Big End Width	.940"	.940"	.940"
Pin End Width	1.000"	1.000"	1.000"



P/N 14340 is NHRA Legal for Stock & Super Stock

CONNECTING RODS

STEEL CONNECTING RODS

Small Block Chevrolet

Pro Series I-Beam Rods

- ▶ Forged from 4340 or 300M aircraft quality vacuum degassed material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 7/16" ARP 2000 or optional 7/16" ARP Custom Age 625+ cap screws
- ▶ Flywheel horsepower range for the Lightweight rods is 750+ HP - Oval Track, 800+ HP - Drag Race and for the Standard Weight rods is 850+ HP - Oval Track, 1000+ HP - Drag Race, 1500+ HP (14554)



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

Lightweight

Part No.	Length	Journal Size	Center-to Center	Big End Bore	Avg. Gram Weight
14324-8	.300" Longer	Honda / IRL	6.000"	2.008" / 2.015"	565 / 575
14450-8	Stock	Small	5.700"	2.125"	610
14452-8	.150" Longer	Small	5.850"	2.125"	615
14454-8	.300" Longer	Small	6.000"	2.125"	620
14455-8	.425" Longer	Small	6.125"	2.125"	625
14350-8	Stock	Large	5.700"	2.225"	600
14352-8	.150" Longer	Large	5.850"	2.225"	600
14354-8	.300" Longer	Large	6.000"	2.225"	600
14355-8	.425" Longer	Large	6.125"	2.225"	645

P/N 14324-8 above REQUIRES the use of one of the connecting rod bearings listed below. To order rods finished to the exact size for Federal Mogul bearings, affix an "F" after the rod part number. For rods finished to exact size for Clevite® bearings, affix a "C" after the rod part number. In addition, you MUST specify which Clevite® bearing will be used.

Standard Weight

Part No.	Length	Journal Size	Center-to Center	Big End Bore	Avg. Gram Weight
14254-8	.300" Longer	Small	6.000"	2.125"	670
14255-8	.425" Longer	Small	6.125"	2.125"	675
14152-8	.150" Longer	Large	5.850"	2.225"	670
14154-8	.300" Longer	Large	6.000"	2.225"	665
14554-8	.300" Longer	Large	6.000"	2.225"	700
Heavier beam for forced induction applications					
14155-8	.425" Longer	Large	6.125"	2.225"	670
14157-8	.550" Longer	Large	6.250"	2.225"	685
300M ALLOY					
15555-8	.425" Longer	Small	6.125"	2.125"	TBA
Heavier beam for forced induction applications					

All connecting rods on this page are supplied with 1.450" under head length 7/16" ARP cap screw fasteners P/N 42390. Upgraded 7/16" ARP Custom Age 625+ cap screws P/N 42252 are available. To order upgraded fasteners, affix "R6" after the rod part number.

Bearing Chart

Bearing Type	Part No.	Big End Bore	Crank Pin
Federal Mogul	7195CH	2.008"	1.8885" Honda
Clevite®	CB1456P	2.008"	1.8885" Honda
Clevite®	CB1663	2.015"	1.8885" Honda
Clevite®	CB1664	2.008"	1.8500" IRL

Common Features

Attribute	Honda / IRL	Small Journal	Large Journal
Crankpin	1.8885" / 1.8500"	2.000"	2.100"
Pin Bore	.9281"	.9281"	.9281"
Big End Width	.940"	.940"	.940"
Pin End Width	.980"	.980"	.980"

Replacement Parts

Part No.	Quantity	Description
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws
42252-4	4 pcs.	7/16" ARP Custom Age 625+ Cap Screws
42393-8	8 pcs.	Ampco Pin Bushings (Except 14355)
42307-8	8 pcs.	Ampco Pin Bushings (14355)
42392-16	16 pcs.	Dowel Bushings 7/16"
40170	1 pc.	Rod Bolt Assembly Lube



P/Ns 14350 and 14450-8 are NHRA Legal for Stock & Super Stock
 P/N 14354-8 is NHRA Legal for Olds 307, 350 and 403
 P/Ns 14152, 14352 and 14452 are NHRA Legal for AMC 343 - 390

Note: New part numbers are **BOLD & ITALICIZED**

STEEL CONNECTING RODS

Small Block Chevrolet LS / LT1 Series

H-Lite, H-Beam & H-Tuff Series Rods

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Weight matched sets ± 1.5 grams
- ▶ Cap fasteners are premium 3/8" ARP 2000 with the H-Lites, 7/16" ARP 8740 or optional ARP 2000 with the H-Beams and 7/16" ARP 2000 come standard with the H-Tuffs
- ▶ Flywheel horsepower range for these rods: 600+ HP (3/8" ARP 2000), 725 HP (7/16" ARP 8740), 775 HP (7/16" ARP 2000) - Oval Track
750 HP (7/16" ARP 8740), 900 HP (7/16" ARP 2000) - Drag Race
1,000 HP (Oval Track), 1,200+ HP (Drag Race) - H-Tuff

Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders



ARP 8740 Part No.	ARP 2000 Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
			H-LITE					
-----	14031-8	LS / LT1 .025" Longer	6.125"	2.225"	.941"	1.060"	.9281"	615
-----	14033-8	LS / LT1 .025" Longer	6.125"	2.225"	.941"	1.060"	.9457"	615
			H-BEAM					
14051-8	14051R-8	LS / LT1 .025" Longer	6.125"	2.225"	.941"	1.060"	.9281"	655
14053-8	14053R-8	LS / LT1 .025" Longer	6.125"	2.225"	.941"	1.060"	.9457"	655
			H-TUFF					
-----	15051R-8	LS / LT1 .025" Longer	6.125"	2.225"	.941"	1.060"	.9281"	680
-----	15053R-8	LS / LT1 .025" Longer	6.125"	2.225"	.941"	1.060"	.9457"	680

P/Ns 14031, 14033, 14051 and 14053, 15051R and 15053R are for Small Block Chevy LS / LT1 engines with pistons ready to accept 6.125" length rods. Stock LS / LT1 rods are 6.100" long. Note the pin bore on the 14031, 14051 and 15051R is .9281". Stock LS / LT1 pins are .945" diameter. These rods are also provided with "Low Profile" cap screws enabling extra block and oil pan clearance on stroker applications.



- Bridges the gap between our standard, proven H-Beams and top of the line, best of the best Pro Series I-Beam rods

- H-Tuff delivers a stronger rod with greater safety margin to handle elevated boost and higher power levels for a modest price premium over standard H-Beams
- H-Tuff design incorporates wider beam and increased cross-sectional thickness in critical areas along with a ribbed pin surround

STEEL CONNECTING RODS

Small Block Chevrolet LS / LT1 Series

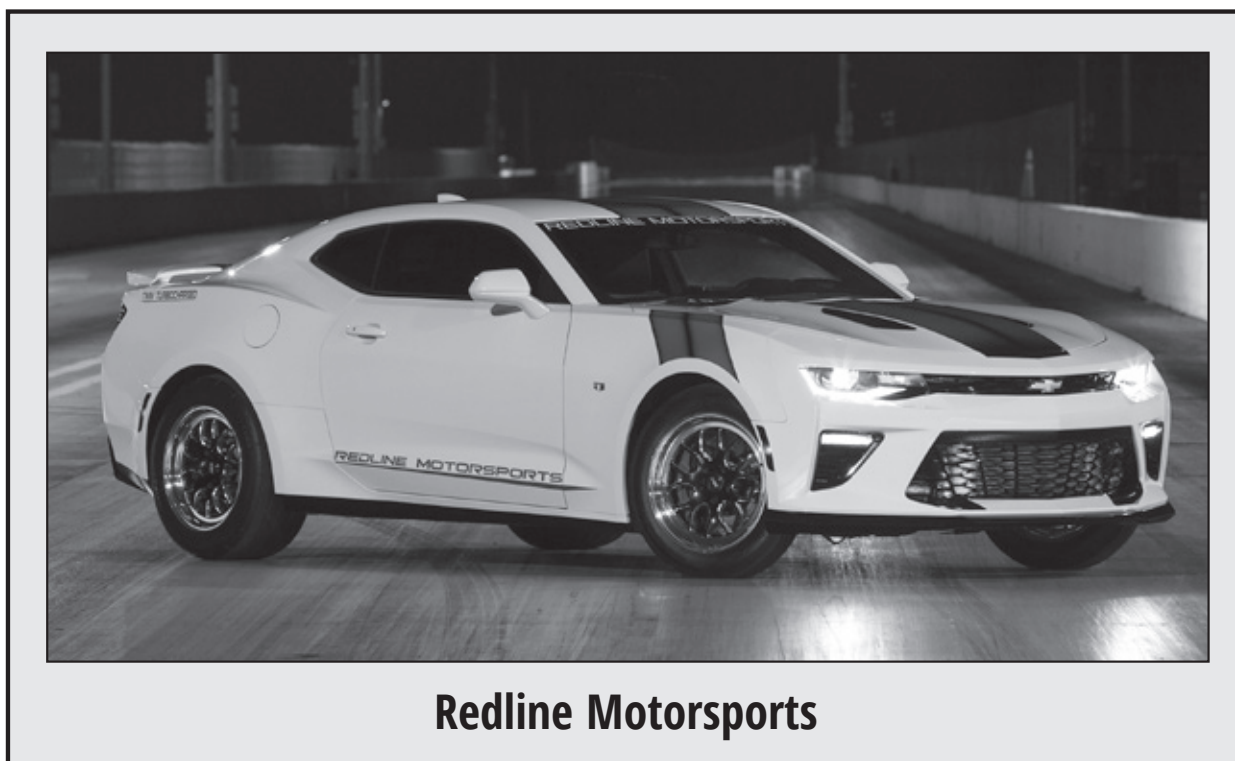
Pro Series I-Beam Rods

- ▶ Forged from 4340 or 300M aircraft quality vacuum degassed material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 7/16" ARP 2000 or optional ARP 625+ cap screws
- ▶ Flywheel horsepower range for these rods: 750+ HP Oval Track and 800+ HP Drag Race (14359 only) 850+ HP Oval Track and 1,200+ HP Drag Race (14364, 14365 and 14369 only), 1,200+ HP Oval Track and 1,500+ HP Drag Race (14559 only), and for the 300M rod is 1,500+ HP Oval Track and 1,800+ HP Drag Race



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 2000 Part No.	ARP 625+ Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
LIGHTWEIGHT								
14359-8	14359R6-8	LS / LT1 .025" Longer	6.125"	2.225"	.940"	1.000"	.9281"	615
STANDARD WEIGHT								
14159-8	14159R6-8	LS / LT1 .025" Longer	6.125"	2.225"	.940"	1.000"	.9281"	640
14559-8	14559R6-8	LS / LT1 .025" Longer Heavier beam for forced induction applications	6.125"	2.225"	.940"	1.000"	.9281"	705
14364-8	14364R6-8	RHS Tall Deck	6.300"	2.225"	.940"	1.000"	.9281"	680
14365-8	14365R6-8	World Warhawk Tall Deck	6.350"	2.225"	.940"	1.000"	.9281"	685
14369-8	14369R6-8	GM LSX Tall Deck	6.460"	2.225"	.940"	1.000"	.9281"	690
300M ALLOY								
15559-8	15559R6-8	LS / LT1 .025" Longer Heavier beam for forced induction applications	6.125"	2.225"	.940"	1.000"	.9281"	690



Redline Motorsports



P/N 14365 is NHRA Legal for 2014-2017 350 COPO engines
P/N 14359 is NHRA Legal for Stock & Super Stock

STEEL CONNECTING RODS

Big Block Chevrolet

H-Beam Rods

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% individually magnafluxed
- ▶ Weight matched sets ± 1.5 grams
- ▶ Cap fasteners are premium 7/16" ARP 8740, ARP 2000 or ARP L19
- ▶ Flywheel horsepower range for these rods: 900 HP (ARP 8740), 1200 HP (ARP 2000), 1400 HP (ARP L19) cap screws



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 8740 Part No.	ARP 2000 Part No.	ARP L19 Part No.	Description	Center-to-Center	Big End Bore	Crank Pin	Pin Bore	Avg. Gram Weight
14060-8	14060R-8	14060L-8	Stock	6.135"	2.325"	2.200"	.9911"	800
14062-8	14062R-8	14062L-8	.250" Longer	6.385"	2.325"	2.200"	.9911"	810
14066-8	14066R-8	14066L-8	.400" Longer	6.535"	2.325"	2.200"	.9911"	815
14072-8	14072R-8	14072L-8	.565" Longer	6.700"	2.325"	2.200"	.9911"	820
14073-8	14073R-8	14073L-8	.665" Longer	6.800"	2.325"	2.200"	.9911"	825

Common Features

Attribute	Dimension
Big End Width	.991"
Pin End Width	1.125"

Replacement Parts

Part No.	Quantity	Description
42361-4	4 pcs.	7/16" ARP 8740 Cap Screws
42249-4	4 pcs.	7/16" ARP 2000 Cap Screws
42296-4	4 pcs.	7/16" ARP L19 Cap Screws
42327-8	8 pcs.	Pin Bushings
42316-16	16 pcs.	Dowel Bushings



P/N 14060-8 is NHRA Legal for Stock & Super Stock



"I have used Manley H-Beam rods for years and they have proven to be a reliable choice."

- David Reher

We've been so impressed with the strength and durability that Manley rods provide we made them standard in our "Pro Series" engine lineup. I recommend Manley "M-Power" cranks and rods to anyone looking for additional strength at an exceptional value!!

- Scott Shafiroff



Big Block Chevrolet

Pro Series I-Beam Rods

- ▶ Forged from 4340 aircraft quality vacuum degassed material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 7/16" ARP 2000 cap screws
- ▶ Flywheel horsepower range for these rods is listed in the box below

Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 2000 Part No.	ARP L19 Part No.	Description	Center-to-Center	Big End Bore	Crank Pin	Pin Bore	Avg. Gram Weight	Horsepower Oval Track	Horsepower Drag Race
14160-8	14160L-8	Stock Length	6.135"	2.325"	2.200"	.9911"	810	1,000	1,600+
14162-8	14162L-8	.250" Longer	6.385"	2.325"	2.200"	.9911"	825	1,000	1,600+
14166-8	14166L-8	.400" Longer	6.535"	2.325"	2.200"	.9911"	835	1,000	1,600+
14167-8	14167L-8	.400" Longer Marine Duty	6.535"	2.325"	2.200"	.9911"	875	1,000	1,600+
14168-8	14168L-8	.500" Longer	6.635"	2.325"	2.200"	.9911"	840	1,000	1,600+
14170-8	14170L-8	.525" Longer	6.660"	2.325"	2.200"	.9911"	845	1,000	1,600+
14172-8	14172L-8	.565" Longer	6.700"	2.325"	2.200"	.9911"	845	1,000	1,600+
14175-8	14175L-8	.615" Longer	6.750"	2.325"	2.200"	.9911"	850	1,000	1,600+
14173-8	14173L-8	.665" Longer	6.800"	2.325"	2.200"	.9911"	860	1,000	1,600+

ARP 2000 Part No.	ARP 625+ Part No.	Description	Center-to-Center	Big End Bore	Crank Pin	Pin Bore	Avg. Gram Weight	Horsepower Oval Track	Horsepower Drag Race
14266-8	14266R6-8	.400" Longer w/ SBC Lg. Jnl. Big End	6.535"	2.225"	2.100"	.9911"	745	850	1,000



P/N 14160-8 is NHRA Legal for Stock & Super Stock
 P/N 14168-8 is NHRA Legal for Ford 429, 460
 P/N 14168-8 is NHRA Legal for Pontiac 350-455

Common Features

Attribute	Dimension
Big End Width	.990"
Pin End Width	1.125"

Replacement Parts

Part No.	Quantity	Description
42384-4	4 pcs.	7/16" ARP 2000 Cap Screws (All except 14266)
42296-4	4 pcs.	7/16" ARP L19 Cap Screws (All except 14266)
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws (14266)
42252-4	4 pcs.	7/16" ARP Custom Age 625+ Cap Screws (14266R6)
42327-8	8 pcs.	Ampco Pin Bushings
42392-16	16 pcs.	Dowel Bushings
40170	1 pc.	Rod Bolt Assembly Lube



STEEL CONNECTING RODS

Chrysler 5.7L /6.1L /6.2L /6.4L Hemi

H-Beam & H-Tuff Series Rods

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Weight matched sets ± 1.5 grams
- ▶ Cap fasteners are premium 7/16" ARP 8740 or optional ARP 2000 cap screws
- ▶ Flywheel horsepower range for these rods: 725 HP (ARP 8740), 775 HP (ARP 2000) - Oval Track
750 HP (ARP 8740), 900 HP (ARP 2000) - Drag Race
1,000 HP (Oval Track), 1,200+ HP (Drag Race) - H-Tuff



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 8740 Part No.	ARP 2000 Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
H-BEAM								
14085-8	14085R-8	5.7/6.1L Stock Length w/ SB Chevy .927" pin	6.240"	2.252"	.933"	1.000"	.9281"	670
14086-8	14086R-8	5.7L Stock Length w/ 24mm pin	6.240"	2.252"	.933"	1.000"	.9457"	675
14087-8	14087R-8	6.1L Stock Length w/ 25mm pin	6.240"	2.252"	.933"	1.000"	.9848"	665
14088-8	14088R-8	6.2/6.4L Stock Length w/ SB Chevy .927" pin	6.200"	2.252"	.933"	1.000"	.9281"	665
14089-8	14089R-8	6.2/6.4L Stock Length w/ 24mm pin	6.200"	2.252"	.933"	1.000"	.9457"	670
14056-8	14056R-8	5.7/6.1L/6.4L Stroker w/ SB Chevy 2.000" crank journal and .927" pin	6.125"	2.125"	.941"	1.060"	.9281"	650
-----	14057R-8	5.7/6.1L/6.4L Stroker w/ SB Chevy 2.000" crank journal and .866" pin	6.125"	2.125"	.941"	.930"	.8671"	620
H-TUFF								
-----	15088R-8	6.2/6.4L Stock Length w/ SB Chevy .927" Pin	6.200"	2.252"	.933"	1.000"	.9281"	705
-----	15089R-8	6.2/6.4L Stock Length w/ 24mm Pin	6.200"	2.252"	.933"	1.000"	.9457"	710
-----	15056R-8	5.7/6.1/6.4L Stroker w/ SB Chevy 2.000" crank journal and .927" Pin	6.125"	2.125"	.941"	.930"	.9281"	665
-----	15057R-8	5.7/6.1/6.4L Stroker w/ SB Chevy 2.000" crank journal and .866" Pin	6.125"	2.125"	.941"	.930"	.8671"	675

Replacement Parts

Part No.	Quantity	Description
42354-4	4 pcs.	7/16" ARP 8740 Cap Screws
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws
42244-8	8 pcs.	Ampco Pin Bushings (14057/15057R)
42393-8	8 pcs.	Ampco Pin Bushings (.927" and 24mm pins)



P/N 14089-8 is NHRA Legal for Stock
P/Ns 14088-8 & 14089-8 are NHRA Legal for Super Stock

CONNECTING RODS



- Bridges the gap between our standard, proven H-Beams and top of the line, best of the best Pro Series I-Beam rods
- H-Tuff delivers a stronger rod with greater safety margin to handle elevated boost and higher power levels for a modest price premium over standard H-Beams
- H-Tuff design incorporates wider beam and increased cross-sectional thickness in critical areas along with a ribbed pin surround

STEEL CONNECTING RODS

Chrysler 5.7L /6.1L /6.2L /6.4L Hemi

Pro Series I-Beam Rods

- ▶ Forged from 4340 or 300M aircraft quality vacuum degassed material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 7/16" ARP 2000 or optional 7/16" ARP Custom Age 625+ cap screws
- ▶ Flywheel horsepower range for the Lightweight rods is 750+ HP - Oval Track, 800+ HP - Drag Race, for the Standard Weight rod is 900+ HP - Oval Track, 1200+ HP - Drag Race, and for the 300M rod is 1000+ HP - Oval track, 1300+ HP - Drag Race



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

Note: For part numbers 14460-8 and 14560-8 please specify the wrist pin diameter you intend to run when placing your order. The stock 5.7 HEMI uses a 24mm/.945" wrist pin and the 6.1 HEMI uses a 25mm/.984" wrist pin from the factory. The pistons you are using must have floating pins with a diameter of .927", 24mm/.945", or 25mm/.984".

Part No.	Description	Center-to-Center	Big End Bore	Crank Pin	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
LIGHTWEIGHT								
14460-8	5.7/6.1L Stock Length	6.240"	2.252"	2.126"	.933"	1.000"	.9281", .9457" or .9848"	595
14455-8	5.7/6.1L/6.4L Stroker w/ SB Chevy 2.000" crank journal and .927" pin	6.125"	2.125"	2.000"	.940"	1.000"	.9281"	625
14461-8	392 Hemi Drag Pak Crate Engine w/ SB Chevy 2.100" crank journal and .927" pin	6.200"	2.225"	2.100"	.940"	1.000"	.9281"	610
14354-8	426 Hemi Drag Pak Crate Engine w/ SB Chevy 2.100" crank journal and .927" pin	6.000"	2.225"	2.100"	.940"	1.000"	.9281"	600
STANDARD WEIGHT								
14562-8	6.2/6.4L Stock Length Heavier beam for forced induction applications	6.200"	2.252"	2.126"	.933"	1.000"	.9281", .9457" or .9848"	685
14560-8	5.7/6.1L Stock Length Heavier beam for forced induction applications	6.240"	2.252"	2.126"	.933"	1.000"	.9281", .9457" or .9848"	700
14255-8	5.7/6.1L/6.4L Stroker w/ SB Chevy 2.000" crank journal and .927" pin	6.125"	2.125"	2.000"	.940"	1.000"	.9281"	675
14554-8	426 Hemi Drag Pak Crate Engine w/ SB Chevy 2.100" crank journal and .927" pin Heavier beam for forced induction applications	6.000"	2.225"	2.100"	.940"	1.000"	.9281"	700
300M ALLOY								
15555-8	5.7/6.1L/6.4L Stroker w/ SB Chevy 2.000" crank journal and .927" pin	6.125"	2.125"	2.000"	.940"	.950"	.9281"	660

The above connecting rods are supplied with 1.450" under head length 7/16" ARP 2000 cap screw fasteners P/N 42390. Upgraded 7/16" ARP Custom Age 625+ cap screws P/N 42252 are available. To order upgraded fasteners, affix "R6" after the rod part number.



P/Ns 14354-8, 14460-8, & 14461-8 are NHRA Legal for Stock & Super Stock

Replacement Parts

Part No.	Quantity	Description
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws
42252-4	4 pcs.	7/16" ARP Custom Age 625+ Cap Screws
42307-8	8 pcs.	Ampco Pin Bushings (14562)
42393-8	8 pcs.	Ampco Pin Bushings (14255, 14354, 14455, 14460, 14461, 14554, 14560)
42395-8	8 pcs.	Ampco Pin Bushings (15555)
42352-16	16 pcs.	Dowel Bushings 7/16" (14354, 14455, 14554, 14562)
42392-16	16 pcs.	Dowel Bushings 7/16" (14255, 14460, 14461, 14560, 15555)
40170	1 pc.	Rod Bolt Assembly Lube



Arrington Performance

STEEL CONNECTING RODS

Dodge 8.3L / 8.4L Viper V10

H-Beam Rods

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Weight matched sets ± 1.5 grams
- ▶ Cap fasteners are premium 7/16" ARP 8740 or optional ARP 2000 cap screws
- ▶ Flywheel horsepower range for these rods: 725 HP (ARP 8740), 775 HP (ARP 2000) - Oval Track
750 HP (ARP 8740), 900 HP (ARP 2000) - Drag Race



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 8740 Part No.	ARP 2000 Part No.	Description	Center-to Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14083-10	14083R-10	8.3/8.4L Viper V10 Stock Length (Must use Clevite CB1808P rod bearing)	6.240"	2.252"	.933"	1.000"	.9281", .9457" or .9848"	670

For P/N 14083 please specify the wrist pin diameter you intend to run when placing your order.

Replacement Parts

Part No.	Quantity	Description
42354-4	4 pcs.	7/16" ARP 8740 Cap Screws
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws
42393-8	8 pcs.	Ampco Pin Bushings

Pro Series I-Beam Rods

- ▶ Flywheel horsepower range for the Lightweight rods is 950+ - Oval Track, 1000+ HP Drag Race and for the Standard Weight rod is 1100+ HP - Oval Track, 1400+ HP - Drag Race



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

Note: For part numbers 14463-10 and 14563-10 please specify the wrist pin diameter you intend to run when placing your order.

Part No.	Description	Center-to Center	Big End Bore	Crank Pin	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14463-10	8.3/8.4L Stock Length (Must use Clevite CB1808P rod bearing)	6.240"	LIGHTWEIGHT 2.252"	2.126"	.933"	1.000"	.9281", .9457" or .9848"	595
14563-10	8.3/8.4L Stock Length Heavier beam for forced induction applications (Must use Clevite CB1808P rod bearing)	6.240"	STANDARD WEIGHT 2.252"	2.126"	.933"	1.000"	.9281", .9457" or .9848"	700

The above connecting rods are supplied with 1.450" under head length 7/16" ARP 2000 cap screw fasteners P/N 42390. Upgraded 7/16" ARP Custom AGE 625+ cap screws P/N 42252 are available. To order upgraded fasteners, affix "R6" after the rod part number.

Replacement Parts

Part No.	Quantity	Description
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws
42252-4	4 pcs.	7/16" ARP Custom Age 625+ Cap Screws
42307-8	8 pcs.	Ampco Pin Bushings (25mm pin)
42393-8	8 pcs.	Ampco Pin Bushings (.927", 24mm pin)
42392-16	16 pcs.	Dowel Bushings 7/16"
40170	1 pc.	Rod Bolt Assembly Lube

CONNECTING RODS

STEEL CONNECTING RODS

Chrysler 360

Sportsmaster® Rods & NHRA Legal Stock & Super Stock Pro Series I-Beam Rods



Sportsmaster®

Pro Series I-Beam

- ▶ Forged from aircraft quality 4340 material
- ▶ Entire Sportsmaster® beam is profiled to remove stress risers and render the lightest possible rod
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners for 14139C-8 are 3/8" ARP 8740 cap screws
- ▶ Cap fasteners for 14445-8 are 3/8" ARP 2000 cap screws
- ▶ Premium Ampco pin bushings
- ▶ Flywheel horsepower range for 14139C-8 rods is 550 HP
- ▶ Flywheel horsepower range for 14445-8 rods is 700+ HP

Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

Part No.	Center-to-Center	Big End Bore	Big End Width	Crank Pin	Pin End Width	Pin Bore	Avg. Gram Weight
SPORTSMASTER® RODS							
14139C-8	6.125"	2.250"	.933"	2.125"	1.000"	.9848"	555
PRO SERIES I-BEAM RODS							
14445-8	6.125"	2.250"	.933"	2.125"	1.000"	.8761" to .9848"	670

You must specify the exact final size pin bore desired



P/N 14445-8 is NHRA Legal for Stock & Super Stock

Chrysler 426

Pro Series I-Beam Rods



- ▶ Forged from 4340 aircraft quality vacuum degassed material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 7/16" ARP 2000 cap screws
- ▶ Flywheel horsepower range for these rods is 1000+ HP

Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

Part No.	Description	Center-to-Center	Big End Bore	Pin Bore	Avg. Gram Weight
14177-8	Stock Length w/ 1.031" pin	6.865"	2.500"	1.0321"	915
14185-8	.235" Longer w/ .990" pin	7.100"	2.500"	.9911"	955
14187-8	.235" Longer w/ .990" pin and BB Chevy rod journal	7.100"	2.325"	.9911"	955

The Big Block Chrysler I-Beam rods listed above can be fitted with ARP Custom Age 625+ bolts P/N 42397. To order these rods with upgraded bolts, affix an "R6" to the part number.

Common Features

Attribute	Dimension
Big End Width	1.015"
Pin End Width	1.180"



P/N 14177-8 is NHRA Legal for Stock & Super Stock

Replacement Parts

Part No.	Quantity	Description
42383-4	4 pcs.	3/8" ARP 8740 Cap Screws (14139C)
42350-4	4 pcs.	3/8" ARP 2000 Cap Screws (14445)
42391-4	4 pcs.	7/16" ARP 2000 Cap Screws
42397-4	4 pcs.	7/16" ARP Custom Age 625+ Cap Screws
42307-8	8 pcs.	Ampco Pin Bushings (14139C)
42268-8	8 pcs.	Ampco Pin Bushings (14445)
42305-8	8 pcs.	Ampco Pin Bushings for .990" pin
42388-8	8 pcs.	Ampco Pin Bushings for 1.031" pin
42385-16	16 pcs.	Dowel Bushings 3/8" (14139C, 14445)
42387-16	16 pcs.	Dowel Bushings 7/16" (14177, 14185)
42392-16	16 pcs.	Dowel Bushings 7/16" (14187)
40170	1 pc.	Rod Bolt Assembly Lube

STEEL CONNECTING RODS

Ford 2.3L (non-EcoBoost)

Sportsmaster® Rods Esslinger Type



Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14117-4	Modified Ford 2.3L Esslinger type w/ .927" pin	5.700"	2.172"	.990"	.980"	.9281"	600

Replacement Parts

Part No.	Quantity	Description
42383-4	4 pcs.	3/8" ARP 8740 Cap Screws
42310-8	8 pcs.	Ampco Pin Bushings
42385-16	16 pcs.	Dowel Bushings 3/8"

Ford 351W

Pro Series I-Beam Rods



Part No.	Description	Center-to-Center	Big End Bore	Crank Pin	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14354C-8	351W Ford Pro Series I-Beam - Lightweight with standard width SB Chevy bearing	6.000"	2.225"	2.100"	.940"	1.000"	.9131"	605

Replacement Parts

Part No.	Quantity	Description
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws
42345-8	8 pcs.	Ampco Pin Bushings
42392-16	16 pcs.	Dowel Bushings 7/16"
40170	1 pc.	Rod Bolt Assembly Lube

Ford 429

Pro Series I-Beam Rods 6.800" Center-To-Center



Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14173-8	Ford 429	6.800"	2.325"	.990"	1.125"	.9911"	860

Replacement Parts

Part No.	Quantity	Description
42391-4	4 pcs.	7/16" ARP 2000 Cap Screws
42327-8	8 pcs.	Ampco Pin Bushings
42387-16	16 pcs.	Dowel Bushings 7/16"
40170	1 pc.	Rod Bolt Assembly Lube

STEEL CONNECTING RODS

Ford 2.3L DOHC "EcoBoost" Ford 3.5L DOHC "EcoBoost" V-6 Ford 3.7L DOHC "Cyclone" V-6

H-Beam Rods

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Weight matched sets \pm 1.5 grams
- ▶ Cap fasteners are 3/8" ARP 2000 (2.3L) and 7/16" ARP 8740 or optional ARP 2000 (3.5/3.7L) cap screws
- ▶ Horsepower range for these rods is 600+ HP (2.3L) and 700+ HP (ARP 8740), 750+ HP (ARP 2000) for 3.5L and 3.7L



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 8740 Part No.	ARP 2000 Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
-----	14081-4	Stock Length w/ 22.5mm pin	5.875"	2.167"	.860"	.859"	.8868"	585
			FORD 2.3L ECOBOOST					
14082-6	14082R-6	Stock Length w/ 23mm pin	6.011"	2.357"	.855"	.855"	.9063"	690
			FORD 3.5L ECOBOOST/3.7L CYCLONE					

Replacement Parts

Part No.	Quantity	Description
42350-4	4 pcs.	3/8" ARP 2000 Cap Screws (14081)
42354-4	4 pcs.	7/16" ARP 8740 Cap Screws (14082)
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws (14082R)
42052-4	4 pcs.	Ampco Pin Bushings (14081)
42053-6	6 pcs.	Ampco Pin Bushings (14082/14082R)
42048-8	8 pcs.	Dowel Bushings 3/8" (14081)
42049-12	12 pcs.	Dowel Bushings 7/16" (14082/14082R)

Pro Series I-Beam Rods

Standard Weight

- ▶ Forged from 4340 aircraft quality vacuum degassed material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ Shot peened after machining to MIL spec and 100% magnafluxed
- ▶ Cap fasteners are 3/8" ARP 2000 (2.3L) and 7/16" ARP 2000 (3.5/3.7L) or optional ARP 625+ cap screws
- ▶ Horsepower range for these 2.3L rods is 1,000+ HP (ARP 2000), 1,200+ HP (ARP 625+) and for the 3.5/3.7L is 1,200+ (ARP 2000), 1,400+ (ARP 625+)



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 2000 Part No.	ARP 625+ Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14434-4	14434R6-4	Stock Length w/ 22.5mm pin Heavier beam for forced induction applications	5.875"	2.167"	.860"	.860"	.8868"	605
			FORD 2.3L ECOBOOST					
14523-6	14523R6-6	Stock Length w/ 23mm pin Heavier beam for forced induction applications	6.011"	2.357"	.855"	.855"	.9063"	620
			FORD 3.5L ECOBOOST/3.7L CYCLONE					

Replacement Parts

Part No.	Quantity	Description
42350-4	4 pcs.	3/8" ARP 2000 Cap Screws (14434)
42320-4	4 pcs.	3/8" ARP 625+ Cap Screws (14434R6)
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws (14523)
42252-4	4 pcs.	7/16" ARP 625+ Cap Screws (14523R6)
42052-4	4 pcs.	Ampco Pin Bushings (14434/14434R6)
42053-6	6 pcs.	Ampco Pin Bushings (14523/14523R6)
42382-12	12 pcs.	Dowel Bushings 3/8" (14434/14434R6)
42352-12	12 pcs.	Dowel Bushings 7/16" (14523/14523R6)
40170	1 pc.	Rod Bolt Assembly Lube

CONNECTING RODS

STEEL CONNECTING RODS

Ford 4.6L Modular V-8

H-Beam & H-Tuff Series Rods

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Weight matched sets \pm 1.5 grams
- ▶ Cap fasteners are 3/8" ARP 8740 or optional ARP 2000 with the H-Beams and 3/8" ARP 2000 come standard with the H-Tuff
- ▶ Flywheel horsepower range for these rods is 700 HP (ARP 8740), 750+ HP (ARP 2000) for the H-Beams and 1,000+ HP for the H-Tuff



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 8740 Part No.	ARP 2000 Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14042-8	14042R-8	4.6 L Stock Length w/ 22mm pin	H-BEAM 5.933"	2.239"	.940"	.940"	.8671"	615
14044-8	14044R-8	4.6 L Stroker w/ 22mm pin and a 2.000" crank journal	5.850"	2.125"	.940"	.940"	.8671"	605
-----	15042R-8*	4.6 L Stock Length w/ 22mm pin	H-TUFF 5.933"	2.239"	.940"	.940"	.8671"	685

Private brand identification available

Replacement Parts

Part No.	Quantity	Description
42383-4	4 pcs.	3/8" ARP 8740 Cap Screws
42350-4	4 pcs.	3/8" ARP 2000 Cap Screws
42302-8	8 pcs.	Ampco Pin Bushings
42260-8	8 pcs.	Ampco Pin Bushings (14044)
42274-16	16 pcs.	Dowel Bushings 3/8"



Manley Performance was the exclusive connecting rod supplier for the 2003 / 2004 Ford SVT Mustang Cobra

P/Ns 14042-8 and 14042R-8 are NHRA Legal for Stock & Super Stock

CONNECTING RODS



- Bridges the gap between our standard, proven H-Beams and top of the line, best of the best Pro Series I-Beam rods
- H-Tuff delivers a stronger rod with greater safety margin to handle elevated boost and higher power levels for a modest price premium over standard H-Beams
- H-Tuff design incorporates wider beam and increased cross-sectional thickness in critical areas along with a ribbed pin surround

Ford 4.6L Modular V-8

Pro Series I-Beam Rods

- ▶ Forged from 4340 or 300M aircraft quality vacuum degassed material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 7/16" ARP 2000 or optional ARP 625+ cap screws
- ▶ Flywheel horsepower range for the Lightweight rods is 750+ HP - Oval Track, 800+ HP - Drag Race, for the Standard Weight rod is 900+ HP - Oval Track, 1200+ HP - Drag Race, and for the 300M rod is 900+ HP - Oval track, 1200+ HP - Drag Race



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 2000 Part No.	ARP 625+ Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
LIGHTWEIGHT								
14318-8	-----	Stock Length w/ 22mm pin	5.933"	2.239"	.940"	.940"	.8671"	595
14320-8	-----	4.6 L Stroker w/ 22mm pin and a 2.000" crank journal	5.850"	2.125"	.940"	.940"	.8671"	605
STANDARD WEIGHT								
14518-8	14518R6-8	Stock Length w/ 22mm pin Heavier beam for forced induction applications	5.933"	2.239"	.940"	.940"	.8671"	675
14520-8	14520R6-8	4.6 L Stroker w/ 22mm pin and a 2.000" crank journal Heavier beam for forced induction applications	5.850"	2.125"	.940"	.940"	.8671"	690
300M ALLOY								
15318-8	15318R6-8	Stock Length w/ 22mm pin	5.933"	2.239"	.940"	.940"	.8671"	695
15320-8	15320R6-8	4.6 L Stroker w/ 22mm pin and a 2.000" crank journal	5.850"	2.125"	.940"	.940"	.8671"	675
15323-8	15323R6-8	4.6 L Stroker w/ 22mm pin	5.850"	2.239"	.940"	.940"	.8671"	680

Replacement Parts

Part No.	Quantity	Description
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws
42252-4	4 pcs.	7/16" ARP 625+ Cap Screws
42302-8	8 pcs.	Ampco Pin Bushings
42392-16	16 pcs.	Dowel Bushings 7/16"
40170	1 pc.	Rod Bolt Assembly Lube



P/N 14318-8 is NHRA Legal for Stock & Super Stock



Modular Mustang Racing

Note: New part numbers are **BOLD & ITALICIZED**

STEEL CONNECTING RODS

Ford 5.4L Modular V-8/5.8L GT-500

H-Beam Rods

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Weight matched sets ± 1.5 grams
- ▶ Cap fasteners are 3/8" ARP 8740 or optional ARP 2000 cap screws
- ▶ Flywheel horsepower range for these rods is 700 HP (ARP 8740), 750+ HP (ARP 2000)



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 8740 Part No.	ARP 2000 Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin Bore	Avg. Gram Weight
14040-8	14040R-8	5.4 L Stock Length w/ 22mm pin	6.657"	2.239"	.940"	.8671"	645

P/N 14040 will also work for the 6.8L V10 modular
Private brand identification available

Replacement Parts

Part No.	Quantity	Description
42383-4	4 pcs.	3/8" ARP 8740 Cap Screws
42350-4	4 pcs.	3/8" ARP 2000 Cap Screws
42302-8	8 pcs.	Ampco Pin Bushings
42274-16	16 pcs.	Dowel Bushings 3/8"



P/Ns 14040-8 and 14040R-8 are NHRA Legal for Stock & Super Stock



Ford GT Powered by 5.4L Supercharged Modular Engine with Manley H-Beam Steel Connecting Rods

STEEL CONNECTING RODS

Ford 5.4L Modular V-8/5.8L GT-500

Pro Series I-Beam Rods



- ▶ Forged from 4340 or 300M aircraft quality vacuum degassed material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 7/16" ARP 2000 or optional ARP 625+ cap screws
- ▶ Flywheel horsepower range for the Lightweight rods is 750+ HP - Oval Track, 800+ HP - Drag Race, for the Standard Weight rod is 900+ HP - Oval Track, 1200+ HP - Drag Race, and for the 300M rod is 1200+ HP - Oval track, 1500+ HP - Drag Race



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 2000 Part No.	ARP 625+ Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14319-8	-----	Stock Length w/ 22mm pin	LIGHTWEIGHT 6.657"	2.239"	.940"	.940"	.8671"	620
14321-8	14321R6-8	Stock Length w/ 22mm pin Heavier beam for forced induction applications	STANDARD WEIGHT 6.657"	2.239"	.940"	.940"	.8671"	725
15321-8	15321R6-8	Stock Length w/ 22mm pin Heavier beam for forced induction applications	300M ALLOY 6.657"	2.239"	.940"	.940"	.8671"	750

P/N 14319, 14321, and 15321 will also work for the 6.8L V10 modular

Replacement Parts

Part No.	Quantity	Description
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws
42252-4	4 pcs.	7/16" ARP 625+ Cap Screws
42302-8	8 pcs.	Ampco Pin Bushings
42392-16	16 pcs.	Dowel Bushings 7/16"
40170	1 pc.	Rod Bolt Assembly Lube



P/N 14319-8 is NHRA Legal for Stock & Super Stock



John Mihovetz

STEEL CONNECTING RODS

Ford 5.0L DOHC "Coyote" V-8

H-Beam & H-Tuff Series Rods



- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Weight matched sets \pm 1.5 grams
- ▶ Cap fasteners are 3/8" ARP 8740 or optional ARP 2000 with the H-Beams and 3/8" ARP 2000 come standard with the H-Tuff
- ▶ Flywheel horsepower range for these rods is 700 HP (ARP 8740), 750+ HP (ARP 2000) for the H-Beams and 1,000+ HP for the H-Tuff

Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 8740 Part No.	ARP 2000 Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14042-8	14042R-8	Stock Length w/ 22mm pin	H-BEAM 5.933"	2.239"	.940"	.940"	.8671"	615
-----	15042R-8*	4.6 L Stock Length w/ 22mm pin	H-TUFF 5.933"	2.239"	.940"	.940"	.8671"	685

*H-Tuff Series rod information can be found on page 154



P/Ns 14042-8 and 14042R-8 are NHRA Legal for Stock & Super Stock

Replacement Parts

Part No.	Quantity	Description
42383-4	4 pcs.	3/8" ARP 8740 Cap Screws
42350-4	4 pcs.	3/8" ARP 2000 Cap Screws
42302-8	8 pcs.	Ampco Pin Bushings
42274-16	16 pcs.	Dowel Bushings 3/8"



P/N 14318 is NHRA Legal for Stock & Super Stock

Pro Series I-Beam Rods



- ▶ Forged from 4340 or 300M aircraft quality vacuum degassed material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 7/16" ARP 2000 or optional ARP 625+ cap screws
- ▶ Flywheel horsepower range for the Lightweight rods is 750+ HP - Oval Track, 800+ HP - Drag Race, for the Standard Weight rod is 900+ HP - Oval Track, 1200+ HP - Drag Race, and for the 300M rod is 900+ HP - Oval track, 1200+ HP - Drag Race

Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 2000 Part No.	ARP 625+ Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14318-8	-----	Stock Length w/ 22mm pin	LIGHTWEIGHT 5.933"	2.239"	.940"	.940"	.8671"	595
14518-8	14518R6-8	Stock Length w/ 22mm pin Heavier beam for forced induction applications	STANDARD WEIGHT 5.933"	2.239"	.940"	.940"	.8671"	675
15318-8	15318R6-8	Stock Length w/ 22mm pin	300M ALLOY 5.933"	2.239"	.940"	.940"	.8671"	695

Replacement Parts

Part No.	Quantity	Description
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws
42252-4	4 pcs.	7/16" ARP 625+ Cap Screws
42302-8	8 pcs.	Ampco Pin Bushings
42392-16	16 pcs.	Dowel Bushings 7/16"
40170	1 pc.	Rod Bolt Assembly Lube

CONNECTING RODS

Ford 5.2L DOHC "Voodoo/Aluminator XS" V-8 Shelby GT350/GT350R Mustang (2015-up) & Aluminator XS Crate Engine H-Beam Rods

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Weight matched sets ± 1.5 grams
- ▶ Cap fasteners are 3/8" ARP 8740 or optional ARP 2000 cap screws
- ▶ Horsepower range for these rods is 700 HP (ARP 8740), 750+ HP (ARP 2000)



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

ARP 8740 Part No.	ARP 2000 Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14043-8	14043R-8	Stock Length w/ 21mm pin	5.933"	2.239"	.940"	.471" Top .940" Bottom Trapezoidal Profile	.8281"	605

Replacement Parts

Part No.	Quantity	Description
42383-4	4 pcs.	3/8" ARP 8740 Cap Screws
42350-4	4 pcs.	3/8" ARP 2000 Cap Screws
42274-16	16 pcs.	Dowel Bushings 3/8"

Ford 6.2L SOHC "Raptor" V-8 Pro Series I-Beam Rods Lightweight

- ▶ Forged from 4340 aircraft quality vacuum degassed material
- ▶ Fully machined to produce the lightest and strongest rod possible
- ▶ Shot peened after machining to MIL spec and 100% magnafluxed
- ▶ Cap fasteners are 7/16" ARP 2000 cap screws
- ▶ Flywheel horsepower range for these rods is 800+ HP



Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders

Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14322-8	Stock Length w/ .927" pin	6.200"	2.239"	.978"	.978"	.9281"	640

Replacement Parts

Part No.	Quantity	Description
42390-4	4 pcs.	7/16" ARP 2000 Cap Screws
42307-8	8 pcs.	Ampco Pin Bushings
42392-16	16 pcs.	Dowel Bushings 7/16"
40170	1 pc.	Rod Bolt Assembly Lube

STEEL CONNECTING RODS

Ford 7.3L Powerstroke Diesel

Pro Series I-Beam Rods

- ▶ Manufactured from 4340 forgings
- ▶ Fully machined to provide the correct balance of strength and weight
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 7/16" ARP 2000
- ▶ AMPCO 45 wrist pin bushings resist deformation at high cylinder pressures



ARP 2000 Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14161-8	Stock Length w/ Stock pin	7.128"	2.691"	1.231"	1.172"	1.309"	1420

Replacement Parts

Part No.	Quantity	Description
42391-4	4 pcs.	7/16" ARP 2000 Cap Screws
42233-4	4 pcs.	Ampco Pin Bushings
42387-16	16 pcs.	Dowel Bushings 7/16"
40170	1 pc.	Rod Bolt Assembly Lube

GM 6.6L Duramax Diesel

Pro Series I-Beam Rods

- ▶ Manufactured from 4340 forgings
- ▶ Fully machined to provide the correct balance of strength and weight
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Cap fasteners are 7/16" ARP 2000
- ▶ AMPCO 45 wrist pin bushings resist deformation at high cylinder pressures



ARP 2000 Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14163-8*	Stock Length w/ Stock pin	6.417"	2.6374"	1.117"	1.280" Top 1.535" Bottom Trapezoidal Profile	1.359"	1130

* Must use Clevite® CB1805 rod bearings or equivalent

Replacement Parts

Part No.	Quantity	Description
42384-4	4 pcs.	7/16" ARP 2000 Cap Screws
42234-4	4 pcs.	Ampco Pin Bushings
42392-16	16 pcs.	Dowel Bushings 7/16"
40170	1 pc.	Rod Bolt Assembly Lube

Toyota 5.7L 3UR-FE (2007-Up)

Pro Series I-Beam Rods

- ▶ Forged from 4340 aircraft quality vacuum degassed material
 - ▶ Fully machined to produce the lightest and strongest rod possible
 - ▶ Shot peened after machining to MIL spec and 100% magnafluxed
 - ▶ Cap fasteners are 7/16" ARP 2000 cap screws
 - ▶ Flywheel horsepower range for these rods is 1000+ HP
- Horsepower range could be exceeded depending upon rpm, stroke, piston weight and power adders



Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin End Width	Pin Bore	Avg. Gram Weight
14425-8	Stock Length w/ Stock pin	6.476"	2.323"	.820"	.955"	.8671"	675

Replacement Parts

Part No.	Quantity	Description
42384-4	4 pcs.	7/16" ARP 2000 Cap Screws
42183-8	8 pcs.	Ampco Pin Bushings
42392-16	16 pcs.	Dowel Bushings 7/16"
40170	1 pc.	Rod Bolt Assembly Lube

Note: New part numbers are **BOLD & ITALICIZED**

STEEL CONNECTING RODS

H-Beam & H-Tuff Rods

Replacement Bolts and Specifications

Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ 30wt. Oil	Recommended Bolt Stretch w/ 30wt. Oil	Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ 30wt. Oil	Recommended Bolt Stretch w/ 30wt. Oil
14031-8	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14033-8	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14034-8	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
14037-8	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14040-8	42383-1	55 ft./lbs.	.0047"-.0052"	14040R-8	42350-1	60 ft./lbs.	.0058"-.0062"
14042-8	42383-1	55 ft./lbs.	.0047"-.0052"	14042R-8	42350-1	60 ft./lbs.	.0058"-.0062"
14043-8	42383-1	55 ft./lbs.	.0047"-.0052"	14043R-8	42350-1	60 ft./lbs.	.0058"-.0062"
14044-8	42383-1	55 ft./lbs.	.0047"-.0052"	14044R-8	42350-1	60 ft./lbs.	.0058"-.0062"
14050-8	42354-1	95 ft./lbs.	.0050"-.0054"	14050R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14051-8	42354-1	95 ft./lbs.	.0050"-.0054"	14051R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14053-8	42354-1	95 ft./lbs.	.0050"-.0054"	14053R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14054-8	42354-1	95 ft./lbs.	.0050"-.0054"	14054R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14055-8	42354-1	95 ft./lbs.	.0050"-.0054"	14055R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14056-8	42354-1	95 ft./lbs.	.0050"-.0054"	14056R-8	42390-1	90 ft./lbs.	.0050"-.0060"
-----	-----	-----	-----	14057R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14060-8	42361-1	80 ft./lbs.	.0052"-.0056"	14060R-8	42249-1	95 ft./lbs.	.0060"-.0065"
14062-8	42361-1	80 ft./lbs.	.0052"-.0056"	14062R-8	42249-1	95 ft./lbs.	.0060"-.0065"
14064-8	42354-1	95 ft./lbs.	.0050"-.0054"	14064R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14065-8	42354-1	95 ft./lbs.	.0050"-.0054"	14065R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14066-8	42361-1	80 ft./lbs.	.0052"-.0056"	14066R-8	42249-1	95 ft./lbs.	.0060"-.0065"
14067-8	42354-1	95 ft./lbs.	.0050"-.0054"	14067R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14069-8	42354-1	95 ft./lbs.	.0050"-.0054"	14069R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14072-8	42361-1	80 ft./lbs.	.0052"-.0056"	14072R-8	42249-1	95 ft./lbs.	.0060"-.0065"
14073-8	42361-1	80 ft./lbs.	.0052"-.0056"	14073R-8	42249-1	95 ft./lbs.	.0060"-.0065"
14081-4	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14082-6	42361-1	80 ft./lbs.	.0052"-.0056"	14082R-6	42249-1	95 ft./lbs.	.0060"-.0065"
14083-10	42354-1	95 ft./lbs.	.0050"-.0054"	14083R-10	42390-1	90 ft./lbs.	.0050"-.0060"
14085-8	42354-1	95 ft./lbs.	.0050"-.0054"	14085R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14086-8	42354-1	95 ft./lbs.	.0050"-.0054"	14086R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14087-8	42354-1	95 ft./lbs.	.0050"-.0054"	14087R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14088-8	42354-1	95 ft./lbs.	.0050"-.0054"	14088R-8	42390-1	90 ft./lbs.	.0050"-.0060"
14089-8	42354-1	95 ft./lbs.	.0050"-.0054"	14089R-8	42390-1	90 ft./lbs.	.0050"-.0060"
-----	-----	-----	-----	15042R-8	42350-1	60 ft./lbs.	.0058"-.0062"
-----	-----	-----	-----	15051R-8	42390-1	90 ft./lbs.	.0050"-.0060"
-----	-----	-----	-----	15053R-8	42390-1	90 ft./lbs.	.0050"-.0060"
-----	-----	-----	-----	15056R-8	42390-1	90 ft./lbs.	.0050"-.0060"
-----	-----	-----	-----	15057R-8	42390-1	90 ft./lbs.	.0050"-.0060"
-----	-----	-----	-----	15088R-8	42390-1	90 ft./lbs.	.0050"-.0060"
-----	-----	-----	-----	15089R-8	42390-1	90 ft./lbs.	.0050"-.0060"

Sportsmaster Rods

Replacement Bolts and Specifications

Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ 30wt. Oil	Recommended Bolt Stretch w/ 30wt. Oil	Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ 30wt. Oil	Recommended Bolt Stretch w/ 30wt. Oil
14101-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14101ACHA-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14101SMS-8	42383-1	55 ft./lbs.	.0047"-.0052"	14101SMSR-8	42350-1	60 ft./lbs.	.0058-.0062"
14103-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14104-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14105-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14106-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14107-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14108-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14109-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14109A-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14112-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14112A-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14113-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14114-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14116-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14117-4	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----
14139C-8	42383-1	55 ft./lbs.	.0047"-.0052"	-----	-----	-----	-----

STEEL CONNECTING RODS

Pro Series I-Beam Rods

Replacement Bolts and Specifications

Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ ARP Lube	Recommended Bolt Stretch w/ ARP Lube	Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ ARP Lube	Recommended Bolt Stretch w/ ARP Lube
14140-8	42351-1	60 ft./lbs.	.0058"-.0062"	14140R6-8	42321-1	65 ft./lbs.	.0065"-.0075"
14142-8	42351-1	60 ft./lbs.	.0058"-.0062"	14142R6-8	42321-1	65 ft./lbs.	.0065"-.0075"
14144-8	42351-1	60 ft./lbs.	.0058"-.0062"	14144R6-8	42321-1	65 ft./lbs.	.0065"-.0075"
14145-8	42351-1	60 ft./lbs.	.0058"-.0062"	14145R6-8	42321-1	65 ft./lbs.	.0065"-.0075"
14152-8	42390-1	80 ft./lbs.	.0050"-.0060"	14152R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14154-8	42390-1	80 ft./lbs.	.0050"-.0060"	14154R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14155-8	42390-1	80 ft./lbs.	.0050"-.0060"	14155R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14157-8	42390-1	80 ft./lbs.	.0050"-.0060"	14157R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14160-8	42384-1	100 ft./lbs.	.0064"-.0068"	14160L-8	42296-1	95 ft./lbs.	.0065"-.0070"
14161-8	42391-1	100 ft./lbs.	.0069"-.0073"	-----	-----	-----	-----
14162-8	42384-1	100 ft./lbs.	.0064"-.0068"	14162L-8	42296-1	95 ft./lbs.	.0065"-.0070"
14163-8	42384-1	100 ft./lbs.	.0064"-.0068"	-----	-----	-----	-----
14166-8	42384-1	100 ft./lbs.	.0064"-.0068"	14166L-8	42296-1	95 ft./lbs.	.0065"-.0070"
14167-8	42384-1	100 ft./lbs.	.0064"-.0068"	14167L-8	42296-1	95 ft./lbs.	.0065"-.0070"
14168-8	42384-1	100 ft./lbs.	.0064"-.0068"	14168L-8	42296-1	95 ft./lbs.	.0065"-.0070"
14170-8	42384-1	100 ft./lbs.	.0064"-.0068"	14170L-8	42296-1	95 ft./lbs.	.0065"-.0070"
14172-8	42384-1	100 ft./lbs.	.0064"-.0068"	14172L-8	42296-1	95 ft./lbs.	.0065"-.0070"
14173-8	42384-1	100 ft./lbs.	.0064"-.0068"	14173L-8	42296-1	95 ft./lbs.	.0065"-.0070"
14175-8	42384-1	100 ft./lbs.	.0064"-.0068"	14175L-8	42296-1	95 ft./lbs.	.0065"-.0070"
14177-8	42391-1	100 ft./lbs.	.0069"-.0073"	14177R6-8	42397-1	100 ft./lbs.	.0068"-.0072"
14185-8	42391-1	100 ft./lbs.	.0069"-.0073"	14185R6-8	42397-1	100 ft./lbs.	.0068"-.0072"
14187-8	42391-1	100 ft./lbs.	.0069"-.0073"	14187R6-8	42397-1	100 ft./lbs.	.0068"-.0072"
14240-8	42351-1	60 ft./lbs.	.0058"-.0062"	14240R6-8	42321-1	65 ft./lbs.	.0065"-.0075"
14242-8	42351-1	60 ft./lbs.	.0058"-.0062"	14242R6-8	42321-1	65 ft./lbs.	.0065"-.0075"
14244-8	42351-1	60 ft./lbs.	.0058"-.0062"	14244R6-8	42321-1	65 ft./lbs.	.0065"-.0075"
14245-8	42351-1	60 ft./lbs.	.0058"-.0062"	14245R6-8	42321-1	65 ft./lbs.	.0065"-.0075"
14254-8	42390-1	80 ft./lbs.	.0050"-.0060"	14254R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14255-8	42390-1	80 ft./lbs.	.0050"-.0060"	14255R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14266-8	42390-1	80 ft./lbs.	.0050"-.0060"	14266R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14318-8	42390-1	80 ft./lbs.	.0050"-.0060"	14318R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14319-8	42390-1	80 ft./lbs.	.0050"-.0060"	14319R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14320-8	42390-1	80 ft./lbs.	.0050"-.0060"	14320R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14321-8	42390-1	80 ft./lbs.	.0050"-.0060"	14321R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14322-8	42390-1	80 ft./lbs.	.0050"-.0060"	14322R6-8	42252-1	105 ft./lbs.	.0060"-.0065"
14339-8	42351-1	60 ft./lbs.	.0058"-.0062"	14339R6-8	42321-1	65 ft./lbs.	.0065"-.0075"
14340-8	42351-1	60 ft./lbs.	.0058"-.0062"	14340R6-8	42321-1	65 ft./lbs.	.0065"-.0075"
14344-8	42351-1	60 ft./lbs.	.0058"-.0062"	14344R6-8	42321-1	65 ft./lbs.	.0065"-.0075"
14345-8	42351-1	60 ft./lbs.	.0058"-.0062"	14345R6-8	42321-1	65 ft./lbs.	.0065"-.0075"

CONNECTING RODS

Manley Lube Part No.	Quantity	Description
40170	1 oz.	ARP Ultra - Torque Fastener® Assembly Lube

Important excerpt from the ARP catalog regarding proper fastener installation:

"The importance of tightening fasteners to their required preload cannot be emphasized enough. If a fastener is not tightened properly, the fastener will not apply the required preload on the application it is being used for and may become susceptible to failure. Conversely, if a fastener is over tightened and stretched too much, it becomes susceptible to failure by exceeding it's maximum yield point."



Manley Performance uses ARP connecting rod bolts exclusively and is proud to be an ARP "Performance Partner."

Note: New part numbers are **BOLD & ITALICIZED**

STEEL CONNECTING RODS

Pro Series I-Beam Rods

Replacement Bolts and Specifications

Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ ARP Lube	Recommended Bolt Stretch w/ ARP Lube	Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ ARP Lube	Recommended Bolt Stretch w/ ARP Lube
14350-8	42390-1	80 ft./lbs.	.0050"- .0060"	14350R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14352-8	42390-1	80 ft./lbs.	.0050"- .0060"	14352R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14354-8	42390-1	80 ft./lbs.	.0050"- .0060"	14354R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14355-8	42390-1	80 ft./lbs.	.0050"- .0060"	14355R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14359-8	42390-1	80 ft./lbs.	.0050"- .0060"	14359R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14364-8	42390-1	80 ft./lbs.	.0050"- .0060"	14364R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14365-8	42390-1	80 ft./lbs.	.0050"- .0060"	14365R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14369-8	42390-1	80 ft./lbs.	.0050"- .0060"	14369R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14425-8	42384-1	100 ft./lbs.	.0064"- .0068"	-----	-----	-----	-----
14438-8	42351-1	60 ft./lbs.	.0058"- .0062"	-----	-----	-----	-----
14439-8	42350-1	60 ft./lbs.	.0058"- .0062"	-----	-----	-----	-----
14440-8	42350-1	60 ft./lbs.	.0058"- .0062"	-----	-----	-----	-----
14441-8	42350-1	60 ft./lbs.	.0058"- .0062"	-----	-----	-----	-----
14442-8	42350-1	60 ft./lbs.	.0058"- .0062"	-----	-----	-----	-----
14443-8	42351-1	60 ft./lbs.	.0058"- .0062"	-----	-----	-----	-----
14445-8	42350-1	60 ft./lbs.	.0058"- .0062"	-----	-----	-----	-----
14450-8	42390-1	80 ft./lbs.	.0050"- .0060"	14450R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14452-8	42390-1	80 ft./lbs.	.0050"- .0060"	14452R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14454-8	42390-1	80 ft./lbs.	.0050"- .0060"	14454R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14455-8	42390-1	80 ft./lbs.	.0050"- .0060"	14455R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14460-8	42390-1	80 ft./lbs.	.0050"- .0060"	14460R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14461-8	42390-1	80 ft./lbs.	.0050"- .0060"	14461R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14463-10	42390-1	80 ft./lbs.	.0050"- .0060"	14463R6-10	42252-1	105 ft./lbs.	.0060"- .0065"
14518-8	42390-1	80 ft./lbs.	.0050"- .0060"	14518R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14520-8	42390-1	80 ft./lbs.	.0050"- .0060"	14520R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
15321-8	42390-1	80 ft./lbs.	.0050"- .0060"	15321R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
15359-8	42390-1	80 ft./lbs.	.0050"- .0060"	15359R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14523-6	42390-1	80 ft./lbs.	.0050"- .0060"	14523R6-6	42252-1	105 ft./lbs.	.0060"- .0065"
14554-8	42390-1	80 ft./lbs.	.0050"- .0060"	14554R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14559-8	42390-1	80 ft./lbs.	.0050"- .0060"	14559R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14560-8	42390-1	80 ft./lbs.	.0050"- .0060"	14560R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14562-8	42390-1	80 ft./lbs.	.0050"- .0060"	14562R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
14563-10	42390-1	80 ft./lbs.	.0050"- .0060"	14563R6-10	42252-1	105 ft./lbs.	.0060"- .0065"
15318-8	42390-1	80 ft./lbs.	.0050"- .0060"	15318R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
15320-8	42390-1	80 ft./lbs.	.0050"- .0060"	15320R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
15321-8	42390-1	80 ft./lbs.	.0050"- .0060"	15321R6-8	42252-1	105 ft./lbs.	.0060"- .0065"
15559-8	42390-1	80 ft./lbs.	.0050"- .0060"	15559R6-8	42252-1	105 ft./lbs.	.0060"- .0065"

Manley Lube Part No.	Quantity	Description
40170	1 oz.	ARP Ultra - Torque Fastener® Assembly Lube

Important excerpt from the ARP catalog regarding proper fastener installation:

"The importance of tightening fasteners to their required preload cannot be emphasized enough. If a fastener is not tightened properly, the fastener will not apply the required preload on the application it is being used for and may become susceptible to failure. Conversely, if a fastener is over tightened and stretched too much, it becomes susceptible to failure by exceeding its maximum yield point."



Manley Performance uses ARP connecting rod bolts exclusively and is proud to be an ARP "Performance Partner."

Note: New part numbers are **BOLD & ITALICIZED**

STEEL CONNECTING RODS

Pin Bushings

► Premium AMPCO 18 material

Part No.	O.D.	I.D.	O/A Length	Part No.	O.D.	I.D.	O/A Length
42273S-1	.904"	.735"	.780"	42043-1	.930"	.866"	1.050"
42286S-1	.904"	.735"	.845"	42044-1	.973"	.866"	.935"
42273-1	.904"	.744"	.780"	42399-1	.990"	.866"	.970"
42286-1	.904"	.744"	.845"	42308S-1	.990"	.866"	.975"
42187S-1	.850"	.775"	.795"	42345-1	.990"	.866"	.995"
42035S-1	.850"	.775"	.895"	42268S-1	1.019"	.866"	.995"
42054S-1	.850"	.775"	1.015"	42260-1	.952"	.867"	.935"
42267S-1	.860"	.775"	.795"	42302-1	.990"	.867"	.935"
42221S-1	.860"	.775"	.975"	42308-1	.990"	.877"	.975"
42282S-1	.904"	.775"	.780"	42268-1	1.019"	.877"	.995"
42041S-1	.910"	.775"	.975"	42055S-1	.967"	.895"	.835"
42187-1	.850"	.784"	.795"	42314S-1	.979"	.896"	.995"
42035-1	.850"	.784"	.895"	42309S-1	.964"	.900"	.835"
42054-1	.850"	.784"	1.015"	42051S-1	.964"	.900"	.855"
42267-1	.860"	.784"	.795"	42053S-1	.990"	.900"	.850"
42221-1	.860"	.784"	.975"	42314-1	.979"	.906"	.995"
42282-1	.904"	.784"	.780"	42309-1	.964"	.908"	.835"
42041-1	.910"	.784"	.975"	42051-1	.964"	.908"	.855"
42186S-1	.930"	.815"	.965"	42055-1	.967"	.908"	.835"
42040S-1	.870"	.820"	.850"	42053-1	.990"	.908"	.850"
42258S-1	.894"	.820"	1.015"	42315S-1	.973"	.920"	1.050"
42285S-1	.904"	.820"	.845"	42045S-1	.975"	.920"	.975"
42181S-1	.910"	.820"	.845"	42395S-1	.990"	.920"	.945"
42185S-1	.910"	.820"	.950"	42310S-1	.990"	.920"	.975"
42303S-1	.910"	.820"	1.015"	42393S-1	.990"	.920"	.995"
42042S-1	.910"	.820"	1.025"	42304S-1	.990"	.920"	1.120"
42040-1	.870"	.828"	.850"	42366S-1	.997"	.920"	.975"
42258-1	.894"	.828"	1.015"	42307S-1	1.019"	.920"	.995"
42285-1	.904"	.828"	.845"	42306S-1	1.037"	.920"	.955"
42181-1	.910"	.828"	.845"	42315-1	.973"	.929"	1.050"
42185-1	.910"	.828"	.950"	42045-1	.975"	.929"	.975"
42303-1	.910"	.828"	1.015"	42395-1	.990"	.929"	.945"
42042-1	.910"	.828"	1.025"	42310-1	.990"	.929"	.975"
42186-1	.930"	.828"	.965"	42393-1	.990"	.929"	.995"
42261S-1	.924"	.850"	.845"	42304-1	.990"	.929"	1.120"
42244S-1	.910"	.855"	.925"	42366-1	.997"	.929"	.975"
42056S-1	.929"	.855"	.795"	42307-1	1.019"	.929"	.995"
42052S-1	.930"	.855"	.840"	42306-1	1.037"	.929"	.955"
42050S-1	.930"	.855"	1.010"	42046S-1	1.051"	.980"	1.125"
42043S-1	.930"	.855"	1.050"	42259S-1	1.054"	.980"	.995"
42044S-1	.973"	.855"	.935"	42047S-1	1.160"	.980"	1.245"
42039S-1	.894"	.856"	1.015"	42250S-1	1.041"	.982"	.985"
42182S-1	.910"	.856"	.845"	42394S-1	1.041"	.982"	1.055"
42183S-1	.910"	.856"	.950"	42298S-1	1.041"	.982"	1.075"
42319S-1	.930"	.856"	.775"	42327S-1	1.041"	.982"	1.125"
42184S-1	.930"	.856"	.815"	42305S-1	1.100"	.982"	1.175"
42399S-1	.990"	.856"	.970"	42381S-1	1.158"	.982"	1.245"
42345S-1	.990"	.856"	.995"	42250-1	1.041"	.992"	.985"
42325S-1	.910"	.860"	.795"	42394-1	1.041"	.992"	1.055"
42323S-1	.910"	.860"	1.010"	42298-1	1.041"	.992"	1.075"
42261-1	.924"	.860"	.845"	42327-1	1.041"	.992"	1.125"
42260S-1	.952"	.860"	.935"	42046-1	1.051"	.992"	1.125"
42302S-1	.990"	.860"	.935"	42259-1	1.054"	.992"	.995"
42039-1	.894"	.866"	1.015"	42305-1	1.100"	.992"	1.175"
42325-1	.910"	.866"	.795"	42381-1	1.158"	.992"	1.245"
42182-1	.910"	.866"	.845"	42047-1	1.160"	.992"	1.245"
42244-1	.910"	.866"	.925"	42028S-1	1.100"	1.015"	.835"
42183-1	.910"	.866"	.950"	42388S-1	1.100"	1.022"	1.175"
42323-1	.910"	.866"	1.010"	42028-1	1.100"	1.026"	.835"
42056-1	.929"	.866"	.795"	42388-1	1.100"	1.033"	1.175"
42319-1	.930"	.866"	.775"	42233S-1	1.424"	1.299"	1.167"
42184-1	.930"	.866"	.815"	42233-1	1.424"	1.309"	1.167"
42052-1	.930"	.866"	.840"	42234S-1	1.424"	1.350"	1.530"
42050-1	.930"	.866"	1.010"	42234-1	1.424"	1.359"	1.530"

CONNECTING RODS

STEEL CONNECTING RODS

Connecting Rod Bolts

Part No.	Diameter	Under Head Length	Material
42281-1	5/16"	1.500"	ARP 2000
42383-1	3/8"	1.500"	ARP 8740
42350-1	3/8"	1.500"	ARP 2000
42320-1	3/8"	1.500"	ARP 625+
42351-1	3/8"	1.600"	ARP 2000
42321-1	3/8"	1.600"	ARP 625+
42354-1	7/16"	1.450"	ARP 8740
42390-1	7/16"	1.450"	ARP 2000
42252-1	7/16"	1.450"	ARP 625+
42361-1	7/16"	1.600"	ARP 8740
42249-1	7/16"	1.600"	ARP 2000
42386-1	7/16"	1.650"	ARP 8740
42384-1	7/16"	1.650"	ARP 2000
42296-1	7/16"	1.650"	ARP L19
42396-1	7/16"	1.700"	ARP 2000
42397-1	7/16"	1.750"	ARP 625+
42239-1	7/16"	1.800"	ARP 8740
42391-1	7/16"	1.850"	ARP 2000

Dowel Bushings

Part No.	O.D.	I.D.	O/A Length
42280-1	.3710"	.3190"	.943"
42048-1	.4250"	.3860"	.536"
42274-1	.4390"	.3860"	.530"
42385-1	.4390"	.3860"	.815"
42382-1	.4390"	.3860"	.860"
42380-1	.4390"	.3860"	.900"
42398-1	.4390"	.3860"	.960"
42049-1	.5000"	.4440"	.536"
42352-1	.5020"	.4485"	.820"
42392-1	.5020"	.4485"	.855"
42387-1	.5020"	.4485"	1.015"

Manufacturing Processes



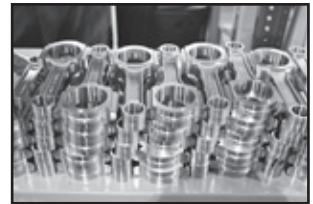
Bore & Profile



Bore & Profile



Post Bore & Profile



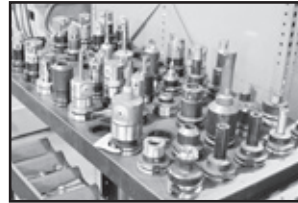
Post Bore & Profile



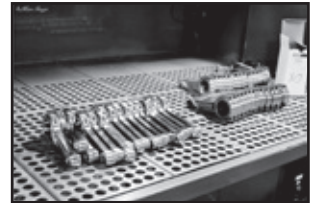
Drill & Tap



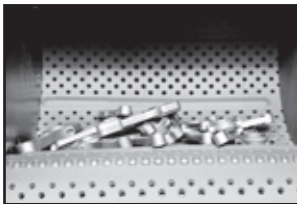
Final Bore



CNC Tooling



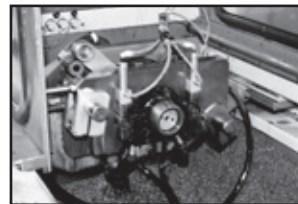
Rod Detailing



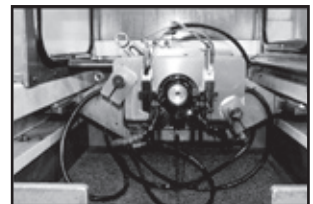
Shot Peen



Magnaflux



Sunnen® H-Beam Cross Grinding



Sunnen® I-Beam Cross Grinding



Post Cross Grind



Sunnen® Pin Honing



Bushing Chamfering



Sunnen® Precision Gauging

CONNECTING RODS

Small Block Chevrolet Crankshafts

4340 Non-Twist Forgings

Lightweight Design for Internal Balance

2 Piece Rear Seal

- ▶ Heat treated, stress relieved, shot peened, nitrided and 100% magnafluxed
- ▶ Micro polished large radius journals (narrowed rod bearings required)

Part No.	Stroke	Minimum Rod Length	Main Journal Diameter	Rod Journal Diameter	Bobweight (grams)	Total Weight (lbs.)
350 MAIN JOURNAL DIAMETER						
190190	3.480"	5.700"	2.450"	2.100"	1750	44-46
190310*	3.480"	5.700"	2.450"	2.100"	1800	48-50
190310NB *	3.480"	5.700"	2.450"	2.100"	See Note**	48-50
190150	3.750"	5.700"	2.450"	2.100"	1800	49-51
190150NB	3.750"	5.700"	2.450"	2.100"	See Note**	49-51
190480	3.875"	6.000"	2.450"	2.100"	1800	49-51
190480NB	3.875"	6.000"	2.450"	2.100"	See Note**	49-51
190130	4.000"	6.000"	2.450"	2.100"	1800	49-51
190130NB	4.000"	6.000"	2.450"	2.100"	See Note**	49-51

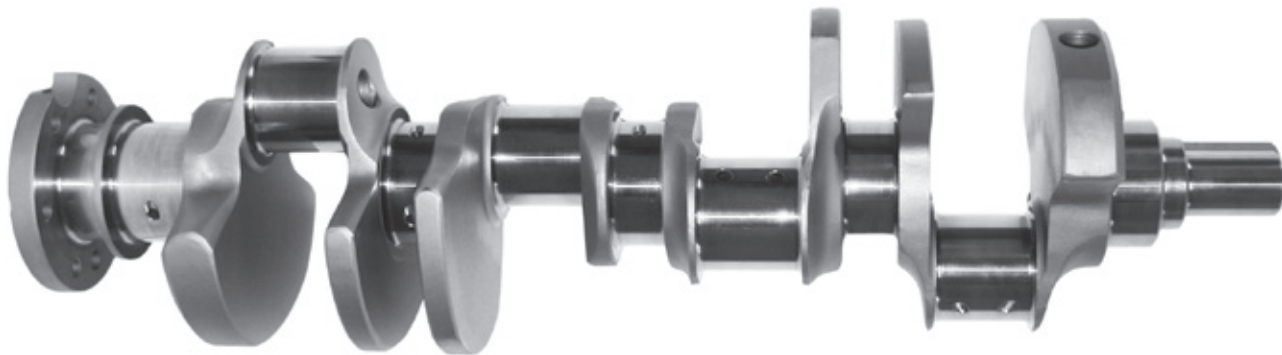
* The two center rod journals are not gun drilled

** These cranks are not balanced and have non-drilled counterweights

Note: Manley crankshafts are not intended for use with highly boosted roots style cog belt superchargers

Precision Balancing Information

Part No.	Bobweight Modification
04004-1	Precision balancing the crankshaft from -200 to -71 grams from the published bobweight
04000-1	Precision balancing the crankshaft from -70 to +20 grams from the published bobweight
04005-1	Precision balancing the crankshaft from +21 to +80 grams from the published bobweight
04006-1	Precision balancing the crankshaft from +81 to +160 grams from the published bobweight



Small Block Chevrolet

Rotating Assemblies

- ▶ Lightweight 4340 forged steel crankshaft
- ▶ 4340 Forged steel H-Beam connecting rods with 7/16" ARP 8740 or optional ARP 2000 cap screws*
- ▶ 2618 Forged aluminum Platinum Series pistons with Premium Chrome Moly wrist pins
- ▶ High Performance piston rings & high performance Clevite® "H" Series rod bearings (narrowed) and "P" or "H" Series main bearings
- ▶ Horsepower range is 750 with the ARP 8740 and 1,500 with the optional ARP 2000 cap screws

Note: The 350 and 400 Small Block rotating assemblies listed below are unbalanced. For a precision balanced assembly please also order part number 04000-1

Part No.	Stroke	CID @ .030	Crank Number	Rod Length	Rod Number	Piston Type	STD. Bore	Piston Number	Bore Sizes Available	Compression Ratio			Piston Ring Numbers	Piston Ring Package
										58cc	64cc	76cc		
350 BLOCK WITH 350 MAIN JOURNAL DIAMETER														
2907	3.480"	355	190190	6.000"	14054	Flat -4cc	4.000"	5906	30 35 40 60	11.2	10.4	9.1	4635 3 5 4 6	1/16", 3/16"
2908	3.480"	355	190190	6.000"	14354	Flat -4cc	4.000"	5906	30 35 40 60	11.2	10.4	9.1	4635 3 5 4 6	1/16", 3/16"
2900	3.750"	383	190150	6.000"	14054	Dish -15cc	4.000"	5909	30 35 40	10.5	9.8	8.8	4635 3 5 4	1/16", 3/16"
2901	3.750"	383	190150	6.000"	14054	Flat -4cc	4.000"	5908	30 35 40	11.9	11.0	9.7	4635 3 5 4	1/16", 3/16"
2909	3.750"	383	190150	6.000"	14054	Dome +11cc (Gas Ported)	4.000"	5919	30 35 40 60	14.9	13.5	11.5	4622 3 5 4 6	.043", 3mm
400 BLOCK WITH 350 MAIN JOURNAL DIAMETER														
2902	4.000"	434	190130	6.000"	14054	Dish -20cc	4.125"	5939	00 30	11.0	10.3	9.3	4616 0 3	1/16", 3/16"
2903	4.000"	434	190130	6.000"	14054	Dome +4cc (Gas Ported)	4.125"	5938	00 30	14.7	13.5	11.7	4626 0 3	.043", 3mm

* Kit number 2908 is supplied with our Pro Series Lightweight I-Beam connecting rods with 7/16" ARP 2000 cap screws

Note: Specify desired bore size to complete the six digit part number, i.e. P/N 290735

Add an "R" to the assembly part number to order the optional ARP 2000 rod bolt upgrade

Add an "H" to the assembly part number to order the optional "H" Series main bearings

Add an "X" to the assembly part number to order the optional "X" Series rod bearings with .001" extra clearance

Bearing Chart

Clevite® "H" Series Rod Bearings	Clevite® "HX" Series Rod Bearings	Clevite® "P" Series Main Bearings	Clevite® "H" Series Main Bearings
30010	30010X	33010	33010H



CRANKS & KITS

Big Block Chevrolet Crankshafts

4340 Non-Twist Forgings Designed for Internal Balance

2 Piece Rear Seal

- ▶ Heat treated, stress relieved, shot peened, nitrided and 100% magnafluxed
- ▶ Micro polished large radius journals (narrowed rod bearings required)

Part No.	Stroke	Minimum Rod Length	Main Journal Diameter	Rod Journal Diameter	Bobweight (grams)	Total Weight (lbs.)
454 MAIN JOURNAL DIAMETER WITHOUT CENTER COUNTERWEIGHTS						
190170	4.000"	6.385"	2.750"	2.200"	2350	64-66
190140	4.250"	6.385"	2.750"	2.200"	2350	64-66
190250	4.375"	6.535"	2.750"	2.200"	2350	64-66



454 MAIN JOURNAL DIAMETER WITH CENTER COUNTERWEIGHTS						
190290	4.250"	6.385"	2.750"	2.200"	2350	74-76
190320	4.375"	6.535"	2.750"	2.200"	2350	74-76
190220	4.500"	6.700"	2.750"	2.200"	2425	74-76
190400	4.625"	6.700"	2.750"	2.200"	2425	74-76
190280	4.750"	6.700"	2.750"	2.200"	2425	74-76



Note: Manley crankshafts are not intended for use with highly boosted roots style cog belt superchargers

Precision Balancing Information

Part No.	Bobweight Modification
04004-1	Precision balancing the crankshaft from -200 to -71 grams from the published bobweight
04000-1	Precision balancing the crankshaft from -70 to +20 grams from the published bobweight
04005-1	Precision balancing the crankshaft from +21 to +80 grams from the published bobweight
04006-1	Precision balancing the crankshaft from +81 to +160 grams from the published bobweight

See Page 169
For Big Block
Rotating Assemblies



Big Block Chevrolet

Rotating Assemblies

- ▶ 4340 Forged steel crankshaft
- ▶ 4340 Forged steel H-Beam connecting rods with 7/16" ARP 8740 or optional ARP 2000 cap screws
- ▶ 2618 Forged aluminum Platinum Series pistons with Premium Chrome Moly wrist pins
- ▶ High Performance piston rings & high performance Clevite® "H" Series rod (narrowed) and "P" or "H" Series main engine bearings
- ▶ Horsepower range is 900 with the ARP 8740 and 1,500 with the optional ARP 2000 cap screws

Note: All 4.000" to 4.375" stroke kits are for standard deck blocks and all 4.500" to 4.750" stroke kits are for tall deck blocks

Part No.	Stroke	CID	Crank P/N	Rod Length	Rod P/N	Bore Size	Piston P/N	Piston Type	Compression Ratio			Piston Ring Package	Piston Ring P/N
									112cc	118cc	124cc		
STANDARD DECK BLOCKS WITHOUT CENTER COUNTERWEIGHTS													
29516	4.000"	516	190170	6.385"	14062	4.530"	698330	Dome +2cc	9.4	9.0	8.7	1/16", 3/16"	46453
28548**	4.250"	548	190140	6.385"	14062	4.530"	696730	Dish -20cc	8.7	8.4	8.1	1/16", 3/16"	46453
28555**	4.250"	555	190140	6.385"	14062	4.560"	696360	Flat -3cc	9.8	9.4	9.0	1/16", 3/16"	46456
29555	4.250"	555	190140	6.385"	14062	4.560"	697860*	Dome +43cc	14.7	13.8	13.0	.043", 3/16"	46556
28565	4.250"	565	190140	6.385"	14062	4.600"	696380	Flat -3cc	9.9	9.5	9.1	1/16", 3/16"	46458
29565	4.250"	565	190140	6.385"	14062	4.600"	697880*	Dome +43cc	14.9	14.0	13.2	.043", 3/16"	46558
28572	4.250"	572	190140	6.385"	14062	4.625"	696390	Flat -3cc	10.0	9.6	9.2	1/16", 3/16"	46459
29572	4.250"	572	190140	6.385"	14062	4.625"	697890*	Dome +43cc	15.1	14.1	13.3	.043", 3/16"	46559
29582**	4.375"	582	190250	6.535"	14066	4.600"	698280*	Dome +43cc	15.3	14.4	13.5	.043", 3/16"	46558
STANDARD DECK BLOCKS WITH CENTER COUNTERWEIGHTS													
38548**	4.250"	548	190290	6.385"	14062	4.530"	696730	Dish -20cc	8.7	8.4	8.1	1/16", 3/16"	46453
38555**	4.250"	555	190290	6.385"	14062	4.560"	696360	Flat -3cc	9.8	9.4	9.0	1/16", 3/16"	46456
39555	4.250"	555	190290	6.385"	14062	4.560"	697860*	Dome +43cc	14.7	13.8	13.0	.043", 3/16"	46556
38565	4.250"	565	190290	6.385"	14062	4.600"	696380	Flat -3cc	9.9	9.5	9.1	1/16", 3/16"	46458
39565**	4.250"	565	190290	6.385"	14062	4.600"	697880*	Dome +43cc	14.9	14.0	13.2	.043", 3/16"	46558
38572	4.250"	572	190290	6.385"	14062	4.625"	696390	Flat -3cc	10.0	9.6	9.2	1/16", 3/16"	46459
39572	4.250"	572	190290	6.385"	14062	4.625"	697890*	Dome +43cc	15.1	14.1	13.3	.043", 3/16"	46559
39582**	4.375"	582	190320	6.535"	14066	4.600"	698280*	Dome +43cc	15.3	14.4	13.5	.043", 3/16"	46558
TALL DECK BLOCKS WITH CENTER COUNTERWEIGHTS													
28598	4.500"	598	190220	6.700"	14072	4.600"	698080	Flat -3cc	10.5	10.0	9.7	1/16", 3/16"	46458
29598	4.500"	598	190220	6.700"	14072	4.600"	697680*	Dome +43cc	15.7	14.7	13.9	.043", 3/16"	46558
38615	4.625"	615	190400	6.700"	14072	4.600"	698480	Flat -3cc	10.8	10.3	9.9	1/16", 3/16"	46458
39615	4.625"	615	190400	6.700"	14072	4.600"	698580*	Dome +43cc	16.2	15.1	14.2	.043", 3/16"	46558
28632	4.750"	632	190280	6.700"	14072	4.600"	698180	Flat -3cc	11.0	10.5	10.1	1/16", 3/16"	46458
29632	4.750"	632	190280	6.700"	14072	4.600"	697980*	Dome +43cc	16.6	15.5	14.6	.043", 3/16"	46558

**Note: These BB Chevy rotating assemblies listed above are factory balanced to within +/- 1% of bobweight. Order part number 04000-1 for precision balancing to within 5 grams

Add an "R" to the assembly part number to order the optional ARP 2000 rod bolt upgrade

Add an "H" to the assembly part number to order the optional "H" Series main bearings

Add an "X" to the assembly part number to order the optional "X" Series rod bearings with .001" extra clearance

Add an "HX" to the assembly part number to order the optional "HX" Series main bearings with .001" extra clearance

*Note: All Dome +43cc pistons are lateral gas ported
Dome fits Pro 1 and BB-3 heads @ 118cc with no additional modifications needed
Also fits Edelbrock Victor heads
Other applications or smaller combustion chambers must be checked

Bearing Chart

Clevite® "H" Series Rod Bearings	Clevite® "HX" Series Rod Bearings	Clevite® "P" Series Main Bearings	Clevite® "H" Series Main Bearings	Clevite® "HX" Series Main Bearings
30040	30040X	33040	33040H	33040HX

CRANKSHAFTS & ROTATING ASSEMBLIES

Chevrolet LS Crankshafts

- ▶ 4340 material forgings and Turbo Tuff Series 4340 Billet material
- ▶ Multi-step heat treatment process and nitrided for added strength
- ▶ Stress relieved, shot-peened and 100% magnafluxed
- ▶ Micro polished large radius journals (narrowed bearings required)
- ▶ Gun drilled mains and lightened rod journals for weight reduction
- ▶ Counterweights fully profiled



Part No.	Design LW or SLW	Reluctor Wheel 24 or 58 Tooth	Stroke	Minimum Rod Length	Main Journal Diameter	Rod Journal Diameter	Bobweight (grams)	Total Weight (lbs.)
4340 FORGED LIGHTWEIGHT								
193924	LW	24 See Note RW	3.622"	6.098"	2.559"	2.100"	1800	51-53
193958	LW	58	3.622"	6.098"	2.559"	2.100"	1800	51-53
190024	LW	24 See Note RW	4.000"	6.125"	2.559"	2.100"	1755	50-52
190024NB	LW	24 See Note RW	4.000"	6.125"	2.559"	2.100"	See Note*	50-52
190058	LW	58	4.000"	6.125"	2.559"	2.100"	1755	50-52
190058NB	LW	58	4.000"	6.125"	2.559"	2.100"	See Note*	50-52
192124	LW	24 See Note RW	4.000"	6.125"	2.559"	2.100"	1800	51-53
192158	LW	58	4.000"	6.125"	2.559"	2.100"	1800	51-53
190124	LW	24 See Note RW	4.100"	6.125"	2.559"	2.100"	1755	50-52
190124NB	LW	24 See Note RW	4.100"	6.125"	2.559"	2.100"	See Note*	50-52
190158	LW	58	4.100"	6.125"	2.559"	2.100"	1755	50-52
190158NB	LW	58	4.100"	6.125"	2.559"	2.100"	See Note*	50-52
194524	LW	24 See Note RW	4.100"	6.125"	2.559"	2.100"	1800	50-52
194558	LW	58	4.100"	6.125"	2.559"	2.100"	1800	50-52
4340 FORGED LIGHTWEIGHT WITH LONG SNOOT (LS-7)								
192658	LW	58	4.000"	6.125"	2.559"	2.100"	1800	51-53
192758	LW	58	4.100"	6.125"	2.559"	2.100"	1800	51-53
4340 BILLET WITH CENTER COUNTERWEIGHTS								
190724B**	LW	24 See Note RW	3.622"	6.125"	2.559"	2.100"	1780	60
190758B**	LW	58	3.622"	6.125"	2.559"	2.100"	1780	60
190824B**	LW	24 See Note RW	4.000"	6.125"	2.559"	2.100"	1780	60
190858B**	LW	58	4.000"	6.125"	2.559"	2.100"	1780	60

Note: Manley 4340 forged crankshafts are not intended for use with highly boosted roots style cog belt superchargers * These cranks are not balanced and have non-drilled counterweights ** When using this crank in a factory LS block, the block will need to be clearanced for the center counterweight Note RW: An optional 24 tooth billet steel reluctor wheel can be ordered as a separate item P/N **Z4BRELUCT**

Precision Balancing Information

Part No.	Bobweight Modification
04004-1	Precision balancing the crankshaft from -200 to -71 grams from the published bobweight
04000-1	Precision balancing the crankshaft from -70 to +20 grams from the published bobweight
04005-1	Precision balancing the crankshaft from +21 to +80 grams from the published bobweight
04006-1	Precision balancing the crankshaft from +81 to +160 grams from the published bobweight

LS "Ready To Run" Rotating Assemblies

- ▶ Lightweight 4340 forged steel crankshaft
- ▶ 4340 Forged steel H-Beam connecting rods with 7/16" ARP 8740 cap screws or optional ARP 2000 cap screws
- ▶ 2618 Forged aluminum Platinum Series pistons with Premium Chrome Moly wrist pins
- ▶ High Performance piston rings & high performance Clevite® "H" Series rod bearings (narrowed) and "P" Series main bearings

Part No.	Stroke	CID	Crank P/N		Rod Length	Rod P/N	Bore Size	Piston P/N	Piston Type	Compression Ratio				Piston Ring Package	Piston Ring P/N
			Reluctor Wheel	58 Tooth						64cc	66cc	70cc	72cc		
28402	4.000"	402	190058	58 Tooth	6.125"	14051	4.005"	596205C	Dish -18cc	10.1	9.9	9.5	9.4	1.5mm, 3mm	46110
29402	4.000"	402	190058	58 Tooth	6.125"	14051	4.005"	592605C	Flat -4cc	11.7	11.4	10.9	10.7	1.5mm, 3mm	46110
28415	4.000"	415	190058	58 Tooth	6.125"	14051	4.070"	596270C	Dish -18cc	10.4	10.2	9.8	9.6	1.5mm, 3mm	46117
29415	4.000"	415	190058	58 Tooth	6.125"	14051	4.070"	592670C	Flat -4cc	12.1	11.8	11.3	11.1	1.5mm, 3mm	46117

Factory balanced to +/- 1% of bobweight

Add an "R" to the assembly part number to order the optional ARP 2000 rod bolt upgrade

Note: New part numbers are **BOLD & ITALICIZED**

CUSTOM ROTATING ASSEMBLIES

Chevrolet LS Rotating Assemblies

Ordering a Manley LS rotating assembly is as easy as 1-2-3.....

1. Choose your crankshaft part number based on stroke, weight, and reluctor wheel and then order the corresponding rod and main bearing part numbers shown
2. Choose your connecting rod part number
3. Choose your piston part number based on bore size and desired compression ratio along with the corresponding piston ring part number

Ordering all of the required components for your LS rotating assembly from Manley will result in extra \$ savings. Please contact your Manley representative for more details

Order P/N **04000-1** for precision balancing within 5 grams

CRANKS

- ▶ 4340 material forgings
- ▶ Multi-step heat treatment process and nitrided for added strength
- ▶ Stress relieved, shot-peened and 100% magnafluxed
- ▶ Micro polished large radius journals
- ▶ Available with either 24 or 58 tooth reluctor wheels
- ▶ Gun drilled mains and lightened rod journals for weight reduction
- ▶ Counterweights fully profiled

RODS

- ▶ Lightweight design 4340 material forgings
- ▶ Fully machined, heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Big and small end bores are final honed to a tolerance of $\pm .0002''$
- ▶ Bend and twist is tightly controlled
- ▶ Weight matched to +/- 1.5 grams
- ▶ H-Beam comes standard with low profile 7/16" ARP 8740 bolts providing additional block and oil pan clearance (affix an R suffix for ARP 2000 bolt upgrade)
- ▶ H-Tuff comes standard with low profile 7/16" ARP 2000 bolts
- ▶ I-Beam comes standard with 7/16" ARP 2000 bolts (affix an R6 suffix for ARP 625+ bolt upgrade)

PISTONS

- ▶ High strength 2618 alloy forgings
- ▶ Exacting ring groove squareness to cylinder wall provides maximum horsepower.
- ▶ Offset wrist pin design
- ▶ Premium Chrome Moly pin included with Standard Series
- ▶ 9310 Alloy pin included with Extreme Duty Series
- ▶ Moly coated skirts

RINGS

- ▶ 1.5 x 1.5 x 3mm High Performance (moly in-lay tops standard)
- ▶ Premium steel top rings are optional (affix ST suffix)
- ▶ Total Seal Gapless® steel top ring sets also available (affix GT suffix)

BEARINGS

- ▶ Premium Clevite® "H" Series narrowed rod bearings and "P" Series or "H" Series main bearings

Small Block Chevrolet LS Series

Lightweight 1800gm. Bobweight 3.622" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio				Balance Req. (Y/N)		
					64cc	66cc	70cc	72cc	14051-8	15051R-8	14559-8
193924 24 Tooth or 193958 58 Tooth	592107C-8	592107CE-8	3.905/-4cc F/T	46107-8	10.2	10.0	9.5	9.3	Y	Y	Y
	592110C-8	592110CE-8	3.910/-4cc F/T	46107-8	10.3	10.1	9.7	9.5	Y	Y	Y
	592501C-8	592501CE-8	4.001/-4cc F/T	46110-8	10.6	10.4	9.8	9.6	N*	Y	Y
	592505C-8	592505CE-8	4.005/-4cc F/T	46110-8	10.6	10.4	9.8	9.6	N*	Y	Y
	592510C-8	592510CE-8	4.010/-4cc F/T	46111-8	10.7	10.5	9.9	9.7	N*	Y	Y
	592530C-8	592530CE-8	4.030/-4cc F/T	46113-8	10.8	10.6	10.1	9.9	N*	Y	Y
6.125" Rod P/N Description	592565C-8	592565CE-8	4.065/-4cc F/T	46116-8	11.0	10.7	10.2	10.0	N*	Y	Y
	592570C-8	592570CE-8	4.070/-4cc F/T	46117-8	11.1	10.8	10.3	10.1	N*	Y	Y
	592575C-8	592575CE-8	4.075/-4cc F/T	46117-8	11.2	10.9	10.4	10.2	N*	Y	Y
	592580C-8	592580CE-8	4.080/-4cc F/T	46118-8	11.3	11.0	10.5	10.3	N*	Y	Y
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam	596107C-8	596107CE-8	3.905/-10cc Dish	46107-8	9.6	9.4	9.0	8.8	Y	Y	Y
	596105C-8	596105CE-8	4.005/-10cc Dish	46110-8	10.0	9.8	9.4	9.2	N*	Y	Y
	596110C-8	596110CE-8	4.010/-10cc Dish	46111-8	10.1	9.9	9.5	9.3	N*	Y	Y
	596130C-8	596130CE-8	4.030/-10cc Dish	46113-8	10.2	9.9	9.5	9.3	N*	Y	Y
	596165C-8	596165CE-8	4.065/-10cc Dish	46116-8	10.3	10.1	9.7	9.5	N*	Y	Y
Bearing P/N Description	596170C-8	596170CE-8	4.070/-10cc Dish	46117-8	10.3	10.1	9.7	9.5	N*	Y	Y
	596175C-8	596175CE-8	4.075/-10cc Dish	46117-8	10.4	10.2	9.8	9.6	N*	Y	Y
	596180C-8	596180CE-8	4.080/-10cc Dish	46118-8	10.5	10.3	9.9	9.6	N*	Y	Y
30010 or 30010X* Rod & 33030 or 33030H Main	596907C-8	596907CE-8	3.905/-18cc Dish	46107-8	8.8	8.7	8.3	8.2	Y	Y	Y
	596905C-8	596905CE-8	4.005/-18cc Dish	46110-8	9.2	9.0	8.7	8.5	Y	Y	Y
	596965C-8	596965CE-8	4.065/-18cc Dish	46116-8	9.5	9.3	9.0	8.8	N*	Y	Y
	596970C-8	596970CE-8	4.070/-18cc Dish	46117-8	9.6	9.4	9.1	8.9	N*	Y	Y
	596975C-8	596975CE-8	4.075/-18cc Dish	46117-8	9.7	9.5	9.2	9.0	N*	Y	Y
	596980C-8	596980CE-8	4.080/-18cc Dish	46118-8	9.8	9.6	9.3	9.1	N*	Y	Y

*N = Factory balanced to +/- 1% of bobweight

Order part number **04000-1** for precision balancing to within 5 grams

Note: "SW" = "Standard Weight" design rod

* HX Series rod bearings with .001" extra clearance

CUSTOM ROTATING ASSEMBLIES

Small Block Chevrolet LS Series

Lightweight 1755gm. Bobweight 4.000" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio				Balance Req. (Y/N)		
					64cc	66cc	70cc	72cc	14051-8	15051R-8	14559-8
190024 24 Tooth or 190058 58 Tooth	592207C-8	592207CE-8	3.905/-4cc F/T	46107-8	11.2	11.0	10.4	10.2	Y	Y	Y
	592605C-8	592605CE-8	4.005/-4cc F/T	46110-8	11.7	11.4	10.9	10.7	N*	Y	Y
	592610C-8	592610CE-8	4.010/-4cc F/T	46111-8	11.7	11.5	11.0	10.7	N*	Y	Y
	592630C-8	592630CE-8	4.030/-4cc F/T	46113-8	11.9	11.6	11.1	10.9	N*	Y	Y
	592665C-8	592665CE-8	4.065/-4cc F/T	46116-8	12.1	11.8	11.3	11.1	N*	Y	Y
	592670C-8	592670CE-8	4.070/-4cc F/T	46117-8	12.1	11.8	11.3	11.1	N*	Y	Y
	592675C-8	592675CE-8	4.075/-4cc F/T	46117-8	12.2	11.9	11.4	11.2	N*	Y	Y
	592680C-8	592680CE-8	4.080/-4cc F/T	46118-8	12.3	12.0	11.5	11.3	N*	Y	Y
6.125" Rod P/N Description	592701C-8	592701CE-8	4.001/-10cc Dish	46110-8	10.8	10.6	10.1	9.9	N*	Y	Y
	592705C-8	592705CE-8	4.005/-10cc Dish	46110-8	10.9	10.7	10.2	10.0	N*	Y	Y
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam	592730C-8	592730CE-8	4.030/-10cc Dish	46113-8	11.1	10.8	10.3	10.1	N*	Y	Y
	592765C-8	592765CE-8	4.065/-10cc Dish	46116-8	11.3	11.0	10.5	10.3	N*	Y	Y
	592770C-8	592770CE-8	4.070/-10cc Dish	46117-8	11.4	11.1	10.6	10.4	N*	Y	Y
	592775C-8	592775CE-8	4.075/-10cc Dish	46117-8	11.5	11.2	10.7	10.5	N*	Y	Y
	592780C-8	592780CE-8	4.080/-10cc Dish	46118-8	11.6	11.3	10.8	10.6	N*	Y	Y
	596207C-8	596207CE-8	3.905/-18cc Dish	46107-8	9.7	9.5	9.2	9.0	Y	Y	Y
	596205C-8	596205CE-8	4.005/-18cc Dish	46110-8	10.1	9.9	9.5	9.4	N*	Y	Y
	596230C-8	596230CE-8	4.030/-18cc Dish	46113-8	10.2	10.0	9.6	9.5	N*	Y	Y
Bearing P/N Description	596265C-8	596265CE-8	4.065/-18cc Dish	46116-8	10.4	10.2	9.8	9.6	N*	Y	Y
	596270C-8	596270CE-8	4.070/-18cc Dish	46117-8	10.4	10.2	9.8	9.6	N*	Y	Y
30010 or 30010X* Rod & 33030 or 33030H Main	596275C-8	596275CE-8	4.075/-18cc Dish	46117-8	10.5	10.3	9.9	9.7	N*	Y	Y
	596280C-8	596280CE-8	4.080/-18cc Dish	46118-8	10.6	10.4	10.0	9.8	N*	Y	Y
	592807C-8	592807CE-8	3.905/-29cc Dish	46107-8	8.7	8.5	8.2	8.1	Y	Y	Y
	592801C-8	592801CE-8	4.001/-29cc Dish	46110-8	9.0	8.8	8.5	8.4	N*	Y	Y
	592805C-8	592805CE-8	4.005/-29cc Dish	46110-8	9.1	8.9	8.6	8.5	N*	Y	Y
	592830C-8	592830CE-8	4.030/-29cc Dish	46113-8	9.2	9.0	8.7	8.6	N*	Y	Y
	592865C-8	592865CE-8	4.065/-29cc Dish	46116-8	9.3	9.1	8.8	8.7	N*	Y	Y
	592870C-8	592870CE-8	4.070/-29cc Dish	46117-8	9.4	9.2	8.9	8.8	N*	Y	Y
	592875C-8	592875CE-8	4.075/-29cc Dish	46117-8	9.5	9.3	9.0	8.9	N*	Y	Y
	592880C-8	592880CE-8	4.080/-29cc Dish	46118-8	9.6	9.4	9.1	9.0	N*	Y	Y

Small Block Chevrolet LS Series

Lightweight 1800gm. Bobweight 4.000" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio				Balance Req. (Y/N)		
					64cc	66cc	70cc	72cc	14051-8	15051R-8	14559-8
192124 24 Tooth or 192158 58 Tooth	592300C-8	592300CE-8	4.125/-5cc F/T	46360-8	12.3	12.0	11.5	11.3	N*	Y	Y
	592305C-8	592305CE-8	4.130/-5cc F/T	46361-8	12.4	12.1	11.6	11.4	N*	Y	Y
	592310C-8	592310CE-8	4.135/-5cc F/T	46362-8	12.5	12.2	11.7	11.5	N*	Y	Y
6.125" Rod P/N Description	592400C-8	592400CE-8	4.125/-11cc Dish	46360-8	11.5	11.3	10.8	10.6	N*	Y	Y
	592405C-8	592405CE-8	4.130/-11cc Dish	46361-8	11.6	11.4	10.9	10.5	N*	Y	Y
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam	592410C-8	592410CE-8	4.135/-11cc Dish	46362-8	11.7	11.5	11.0	10.6	N*	Y	Y
	596300C-8	596300CE-8	4.125/-18cc Dish	46360-8	10.6	10.4	10.0	9.8	N*	Y	Y
	596305C-8	596305CE-8	4.130/-18cc Dish	46361-8	10.6	10.4	10.0	9.9	N*	Y	Y
Bearing P/N Description	596310C-8	596310CE-8	4.135/-18cc Dish	46362-8	10.7	10.5	10.1	10.0	N*	Y	Y
	592900C-8	592900CE-8	4.125/-29cc Dish	46360-8	9.6	9.4	9.1	9.0	N*	Y	Y
30010 or 30010X* Rod 33030 or 33030H Main	592905C-8	592905CE-8	4.130/-29cc Dish	46361-8	9.7	9.5	9.2	9.1	N*	Y	Y
	592910C-8	592910CE-8	4.135/-29cc Dish	46362-8	9.8	9.6	9.3	9.2	N*	Y	Y

*N = Factory balanced to +/- 1% of bobweight

Order part number 04000-1 for precision balancing to within 5 grams

Note: "SW" = "Standard Weight" design rod

* HX Series rod bearings with .001" extra clearance

CUSTOM ROTATING ASSEMBLIES

Small Block Chevrolet LS Series

Lightweight 1755gm. Bobweight 4.100" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio				Balance Req. (Y/N)		
					64cc	66cc	70cc	72cc	14051-8	15051R-8	14559-8
190124 24 Tooth or 190158 58 Tooth	596505C-8	596505CE-8	4.005/-10cc Dish	46110-8	11.1	10.9	10.5	10.3	N*	Y	Y
	596565C-8	596565CE-8	4.065/-10cc Dish	46116-8	11.4	11.2	10.7	10.5	N*	Y	Y
	596570C-8	596570CE-8	4.070/-10cc Dish	46117-8	11.5	11.3	10.8	10.6	N*	Y	Y
	596575C-8	596575CE-8	4.075/-10cc Dish	46117-8	11.6	11.4	10.9	10.7	N*	Y	Y
	596580C-8	596580CE-8	4.080/-10cc Dish	46118-8	11.7	11.5	11.0	10.8	N*	Y	Y
6.125" Rod P/N Description	596600C-8	596600CE-8	4.125/-11cc Dish	46360-8	11.6	11.4	10.9	10.7	Y	Y	Y
	596605C-8	596605CE-8	4.130/-11cc Dish	46361-8	11.7	11.5	11.0	10.8	Y	Y	Y
	596610C-8	596610CE-8	4.135/-11cc Dish	46362-8	11.8	11.6	11.1	10.9	Y	Y	Y
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam	596005C-8	596005CE-8	4.005/-20cc Dish	46110-8	10.1	9.9	9.6	9.4	N*	Y	Y
	596065C-8	596065CE-8	4.065/-20cc Dish	46116-8	10.4	10.2	9.8	9.6	N*	Y	Y
	596070C-8	596070CE-8	4.070/-20cc Dish	46117-8	10.4	10.2	9.8	9.7	N*	Y	Y
	596075C-8	596075CE-8	4.075/-20cc Dish	46117-8	10.5	10.3	9.9	9.8	N*	Y	Y
	596080C-8	596080CE-8	4.080/-20cc Dish	46118-8	10.6	10.4	10.0	9.9	N*	Y	Y
Bearing P/N Description	596400C-8	596400CE-8	4.125/-20cc Dish	46360-8	10.6	10.4	10.1	9.9	Y	Y	Y
	596405C-8	596405CE-8	4.130/-20cc Dish	46361-8	10.7	10.5	10.1	9.9	Y	Y	Y
	596410C-8	596410CE-8	4.135/-20cc Dish	46362-8	10.8	10.6	10.2	10.0	Y	Y	Y
30010 or 30010X* Rod & 33030 or 33030H Main	596705C-8	596705CE-8	4.005/-31cc Dish	46110-8	9.1	9.0	8.7	8.5	N*	Y	Y
	596765C-8	596765CE-8	4.065/-31cc Dish	46116-8	9.3	9.2	8.9	8.7	N*	Y	Y
	596770C-8	596770CE-8	4.070/-31cc Dish	46117-8	9.4	9.3	9.0	8.8	N*	Y	Y
	596775C-8	596775CE-8	4.075/-31cc Dish	46117-8	9.5	9.4	9.1	8.9	N*	Y	Y
	596780C-8	596780CE-8	4.080/-31cc Dish	46118-8	9.6	9.5	9.2	9.0	N*	Y	Y
Bearing P/N Description	596800C-8	596800CE-8	4.125/-31cc Dish	46360-8	9.6	9.4	9.1	9.0	Y	Y	Y
	596805C-8	596805CE-8	4.130/-31cc Dish	46361-8	9.7	9.5	9.2	9.1	Y	Y	Y
	596810C-8	596810CE-8	4.135/-31cc Dish	46362-8	9.8	9.6	9.3	9.2	Y	Y	Y

Small Block Chevrolet LS Series

Lightweight 1800gm. Bobweight 4.100" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio				Balance Req. (Y/N)		
					64cc	66cc	70cc	72cc	14051-8	15051R-8	14559-8
194524 24 Tooth or 194558 58 Tooth	596600C-8	596600CE-8	4.125/-11cc Dish	46360-8	11.6	11.4	10.9	10.7	N*	Y	Y
	596605C-8	596605CE-8	4.130/-11cc Dish	46361-8	11.7	11.5	11.0	10.8	N*	Y	Y
	596610C-8	596610CE-8	4.135/-11cc Dish	46362-8	11.8	11.6	11.5	10.9	N*	Y	Y
6.125" Rod P/N Description	596400C-8	596400CE-8	4.125/-20cc Dish	46360-8	10.6	10.4	10.1	9.9	N*	Y	Y
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam	596405C-8	596405CE-8	4.130/-20cc Dish	46361-8	10.7	10.5	10.1	9.9	N*	Y	Y
	596410C-8	596410CE-8	4.135/-20cc Dish	46362-8	10.8	10.6	10.2	10.0	N*	Y	Y
Bearing P/N Description	596800C-8	596800CE-8	4.125/-31cc Dish	46360-8	9.6	9.4	9.1	9.0	N*	Y	Y
	596805C-8	596805CE-8	4.130/-31cc Dish	46361-8	9.7	9.5	9.2	9.1	N*	Y	Y
	596810C-8	596810CE-8	4.135/-31cc Dish	46362-8	9.8	9.6	9.3	9.2	N*	Y	Y
30010 or 30010X* Rod 33030 or 33030H Main											

*N = Factory balanced to +/- 1% of bobweight

Order part number 04000-1 for precision balancing to within 5 grams

Note: "SW" = "Standard Weight" design rod

* HX Series rod bearings with .001" extra clearance

CUSTOM ROTATING ASSEMBLIES

Small Block Chevrolet LS-7 (Long Snout)

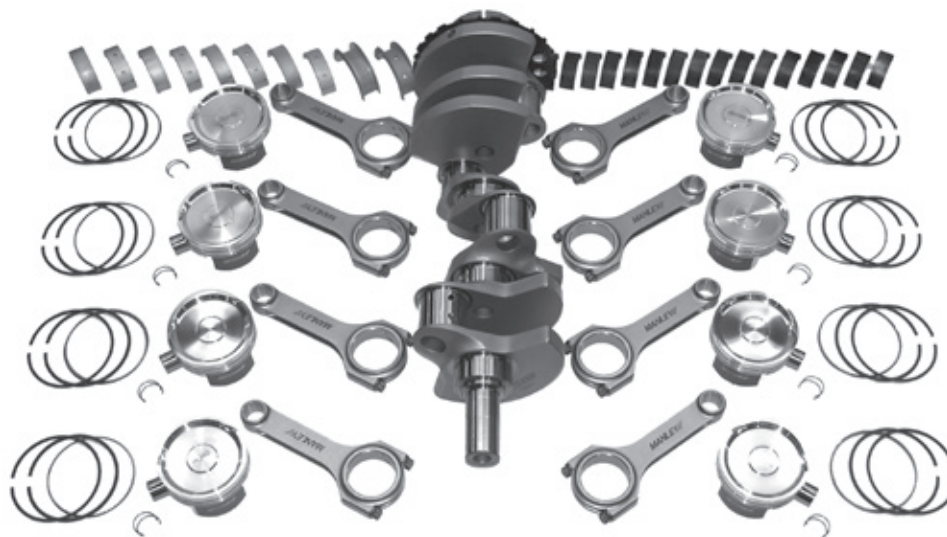
Lightweight 1800gm. Bobweight 4.000" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio				Balance Req. (Y/N)		
					64cc	66cc	70cc	72cc	14051-8	15051R-8	14559-8
192658 58 Tooth	592300C-8	592300CE-8	4.125/-5cc F/T	46360-8	12.3	12.0	11.5	11.3	N*	Y	Y
	592305C-8	592305CE-8	4.130/-5cc F/T	46361-8	12.4	12.1	11.6	11.4	N*	Y	Y
	592310C-8	592310CE-8	4.135/-5cc F/T	46362-8	12.5	12.2	11.7	11.5	N*	Y	Y
6.125" Rod P/N Description	592400C-8	592400CE-8	4.125/-11cc Dish	46360-8	11.5	11.3	10.8	10.6	N*	Y	Y
	592405C-8	592405CE-8	4.130/-11cc Dish	46361-8	11.6	11.4	10.9	10.5	N*	Y	Y
	592410C-8	592410CE-8	4.135/-11cc Dish	46362-8	11.7	11.5	11.0	10.6	N*	Y	Y
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam	596300C-8	596300CE-8	4.125/-18cc Dish	46360-8	10.6	10.4	10.0	9.8	N*	Y	Y
	596305C-8	596305CE-8	4.130/-18cc Dish	46361-8	10.6	10.4	10.0	9.9	N*	Y	Y
	596310C-8	596310CE-8	4.135/-18cc Dish	46362-8	10.7	10.5	10.1	10.0	N*	Y	Y
Bearing P/N Description	592900C-8	592900CE-8	4.125/-29cc Dish	46360-8	9.6	9.4	9.1	9.0	N*	Y	Y
	592905C-8	592905CE-8	4.130/-29cc Dish	46361-8	9.7	9.5	9.2	9.1	N*	Y	Y
	592910C-8	592910CE-8	4.135/-29cc Dish	46362-8	9.8	9.6	9.3	9.2	N*	Y	Y
30010 or 30010X* Rod 33030 or 33030H Main											

Small Block Chevrolet LS-7 (Long Snout)

Lightweight 1800gm. Bobweight 4.100" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio				Balance Req. (Y/N)		
					64cc	66cc	70cc	72cc	14051-8	15051R-8	14559-8
192758 58 Tooth	596600C-8	596600CE-8	4.125/-11cc Dish	46360-8	11.6	11.4	10.9	10.7	N*	Y	Y
	596605C-8	596605CE-8	4.130/-11cc Dish	46361-8	11.7	11.5	11.0	10.8	N*	Y	Y
	596610C-8	596610CE-8	4.135/-11cc Dish	46362-8	11.8	11.6	11.1	10.9	N*	Y	Y
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam	596400C-8	596400CE-8	4.125/-20cc Dish	46360-8	10.6	10.4	10.1	9.9	N*	Y	Y
	596405C-8	596405CE-8	4.130/-20cc Dish	46361-8	10.7	10.5	10.1	9.9	N*	Y	Y
	596410C-8	596410CE-8	4.135/-20cc Dish	46362-8	10.8	10.6	10.2	10.0	N*	Y	Y
Bearing P/N Description	596800C-8	596800CE-8	4.125/-31cc Dish	46360-8	9.6	9.4	9.1	9.0	N*	Y	Y
	596805C-8	596805CE-8	4.130/-31cc Dish	46361-8	9.7	9.5	9.2	9.1	N*	Y	Y
	596810C-8	596810CE-8	4.135/-31cc Dish	46362-8	9.8	9.6	9.3	9.2	N*	Y	Y
30010 or 30010X* Rod 33030 or 33030H Main											



*N = Factory balanced to +/- 1% of bobweight
 Order part number 04000-1 for precision balancing to within 5 grams
 Note: "SW" = "Standard Weight" design rod
 * HX Series rod bearings with .001" extra clearance

CUSTOM ROTATING ASSEMBLIES

Chevrolet 5.3L LS / L83 Rotating Assemblies

Small Block Chevrolet 5.3L LS Gen III/IV

Lightweight 1800gm. Bobweight 3.622" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio				Balance Req. (Y/N)		
					58cc	62cc	66cc	70cc	14051-8	15051R-8	14559-8
193924 24 Tooth or 193958 58 Tooth	561005C-8	561005CE-8	3.785/-2cc Flat Top	46500ST-8	10.50	9.99	9.53	9.11	Y	Y	Y
	561010C-8	561010CE-8	3.790/-2cc Flat Top	46510ST-8	10.55	10.03	9.57	9.15	Y	Y	Y
	561020C-8	561020CE-8	3.800/-2cc Flat Top	46520ST-8	10.60	10.08	9.62	9.20	Y	Y	Y
6.125" Rod P/N Description		Bearing P/N Description									
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam		30010 or 30010X* Rod & 33030 or 33030H Main									

Lightweight 1800gm. Bobweight 4.000" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio				Balance Req. (Y/N)		
					58cc	62cc	66cc	70cc	14051-8	15051R-8	14559-8
192124 24 Tooth or 192158 58 Tooth	561105C-8	561105CE-8	3.785/-7cc Dish	46500ST-8	10.82	10.32	9.87	9.46	Y	Y	Y
	561110C-8	561110CE-8	3.790/-7cc Dish	46510ST-8	10.87	10.37	9.92	9.51	Y	Y	Y
	561120C-8	561120CE-8	3.800/-7cc Dish	46520ST-8	10.92	10.42	9.96	9.55	Y	Y	Y
6.125" Rod P/N Description		Bearing P/N Description									
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam		30010 or 30010X* Rod & 33030 or 33030H Main									

Small Block Chevrolet 5.3L L83 Gen V Direct Injected

Lightweight 1850gm. Bobweight 3.622" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio	Balance Req. (Y/N)		
					60cc	14051-8	15051R-8	14559-8
194158 194358 (Long Snout) 58 Tooth	561200C-8	561200CE-8	3.780/-2cc Dome	46500ST-8	10.26	Y	Y	Y
	561210C-8	561210CE-8	3.790/-2cc Dome	46510ST-8	10.31	Y	Y	Y
	561220C-8	561220CE-8	3.800/-2cc Dome	46520ST-8	10.36	Y	Y	Y
6.125" Rod P/N Description		Bearing P/N Description						
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam		30010 or 30010X* Rod 33110H Main						

Lightweight 1820gm. Bobweight 4.000" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio	Balance Req. (Y/N)		
					60cc	14051-8	15051R-8	14559-8
194258 194458 (Long Snout) 58 Tooth	561300C-8	561300CE-8	3.780/-10cc Dish	46500ST-8	10.20	Y	Y	Y
	561310C-8	561310CE-8	3.790/-10cc Dish	46510ST-8	10.25	Y	Y	Y
	561320C-8	561320CE-8	3.800/-10cc Dish	46520ST-8	10.30	Y	Y	Y
6.125" Rod P/N Description		Bearing P/N Description						
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam		30010 or 30010X* Rod 33110H Main						

Order part number 04000-1 for precision balancing to within 5 grams

Note: "SW" = "Standard Weight" design rod

* HX Series rod bearings with .001" extra clearance

Chevrolet LT1/LT4 Crankshafts

Direct Injected LT1/LT4 4340 Forged Crankshafts

Manley Performance "PRO SERIES" crankshafts designed for the Small Block direct injected LT1/LT4 engine... Manufactured from a premium 4340 steel forging, these cranks feature a stock 3.622" stroke or an increased 4.000" stroke which can turn your 6.2L into 6.8-7.0L depending on your bore. All crankshafts are shipped with a 58 tooth reluctor wheel installed.

- ▶ 4340 material forgings
- ▶ Multi-step heat treatment process and nitrided for added strength
- ▶ Stress relieved, shot-peened and 100% magnafluxed
- ▶ Micro polished large radius journals (narrowed rod bearings required)
- ▶ Gun drilled mains and lightened rod journals for weight reduction
- ▶ Counterweights fully profiled

Part No.	Stroke	Minimum Rod Length	Main Journal Diameter	Rod Journal Diameter	Bobweight (grams)	Total Weight (lbs.)
LIGHTWEIGHT						
194158	3.622"	6.098"	2.559"	2.100"	1850	51-53
194258	4.000"	6.125"	2.559"	2.100"	1820	51-53
LIGHTWEIGHT WITH LONG SNOOT (Dry Sump Oiling Systems)						
194358	3.622"	6.098"	2.559"	2.100"	1850	51-53
194458	4.000"	6.125"	2.559"	2.100"	1820	51-53

The stock timing crank gear may need to be chamfered to clear the larger radius on the snout of the crankshaft

Note: Manley crankshafts are not intended for use with highly boosted roots style cog belt superchargers

Precision Balancing Information

Part No.	Bobweight Modification
04004-1	Precision balancing the crankshaft from -200 to -71 grams from the published bobweight
04000-1	Precision balancing the crankshaft from -70 to +20 grams from the published bobweight
04005-1	Precision balancing the crankshaft from +21 to +80 grams from the published bobweight
04006-1	Precision balancing the crankshaft from +81 to +160 grams from the published bobweight



Create your own "Bullet-Proof" Chevy LT1/LT4 Rotating Assemblies with Manley H-Beam or Pro Series I-Beam Connecting Rods and Manley Platinum Series Pistons on Page 177.

CUSTOM ROTATING ASSEMBLIES

Chevrolet LT1/LT4 Rotating Assemblies

Ordering a Manley LT1/LT4 rotating assembly is as easy as 1-2-3...

1. Choose your crankshaft part number based on stroke and then order the corresponding rod and main bearing part numbers shown
2. Choose your connecting rod part number
3. Choose your piston part number based on bore size and desired compression ratio along with the corresponding piston ring part number

Ordering all of the required components for your LT1/LT4 rotating assembly from Manley will result in extra \$ savings. Please contact your Manley representative for more details.

Order part number **04000-1** for precision balancing to within 5 grams

CRANKS

- ▶ Lightweight 4340 material forgings
- ▶ Multi-step heat treatment process and nitrided for added strength
- ▶ Stress relieved, shot-peened and 100% magnafluxed
- ▶ Micro polished large radius journals
- ▶ Gun drilled mains and lightened rod journals for weight reduction
- ▶ Counterweights fully profiled

RODS

- ▶ Lightweight design 4340 material forgings
- ▶ Fully machined, heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Big and small end bores are final honed to a tolerance of $\pm .0002"$
- ▶ Bend and twist is tightly controlled
- ▶ Weight matched to +/- 1.5 grams
- ▶ H-Beam comes standard with low profile 7/16" ARP 8740 bolts providing additional block and oil pan clearance (affix an R suffix for ARP 2000 bolt upgrade)
- ▶ H-Tuff comes standard with low profile 7/16" ARP 2000 bolts
- ▶ I-Beam comes standard with 7/16" ARP 2000 bolts (affix an R6 suffix for ARP 625+ bolt upgrade)

PISTONS

- ▶ High strength 2618 alloy forgings
- ▶ Exacting ring groove squareness to cylinder wall provides maximum horsepower.
- ▶ Offset wrist pin design
- ▶ Premium Chrome Moly pin included with Standard Series
- ▶ 9310 Alloy pin included with Extreme Duty Series
- ▶ Moly coated skirts

RINGS

- ▶ 1.2 x 1.2 x 3mm
- ▶ Premium steel top rings are optional (affix ST suffix)

BEARINGS

- ▶ Premium Clevite® "H" Series narrowed rod bearings and "H" Series main bearings

Small Block Chevrolet Direct Injected LT1/LT4 Lightweight 1850gm. Bobweight 3.622" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Comp. Ratio LT1 / LT4	Balance Req. (Y/N)		
						14051-8	15051R-8	14559-8
194158 194358 (Long Snout) 58 Tooth	560065C-8	560065CE-8	4.065/-2cc Dome	46016-8	11.7 / 10.8	N*	Y	Y
	560070C-8	560070CE-8	4.070/-2cc Dome	46017-8	11.7 / 10.8	N*	Y	Y
	560075C-8	560075CE-8	4.075/-2cc Dome	46017-8	11.8 / 10.9	N*	Y	Y
	560080C-8	560080CE-8	4.080/-2cc Dome	46018-8	11.8 / 10.9	N*	Y	Y
6.125" Rod P/N Description	560165C-8	560165CE-8	4.065/-12cc Dish	46016-8	10.5 / 9.7	N*	Y	Y
	560170C-8	560170CE-8	4.070/-12cc Dish	46017-8	10.5 / 9.7	N*	Y	Y
	560175C-8	560175CE-8	4.075/-12cc Dish	46017-8	10.6 / 9.8	N*	Y	Y
	560180C-8	560180CE-8	4.080/-12cc Dish	46018-8	10.6 / 9.8	N*	Y	Y
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam								
Bearing P/N Description								
	30010 or 30010X* Rod 33110H Main							

Lightweight 1820gm. Bobweight 4.000" Stroke Cranks

Crank P/N Reluctor Wheel	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Comp. Ratio LT1 / LT4	Balance Req. (Y/N)		
						14051-8	15051R-8	14559-8
194258 194458 (Long Snout) 58 Tooth	560265C-8	560265CE-8	4.065/-10cc Dish	46016-8	11.7 / 10.8	N*	Y	Y
	560270C-8	560270CE-8	4.070/-10cc Dish	46017-8	11.7 / 10.8	N*	Y	Y
	560275C-8	560275CE-8	4.075/-10cc Dish	46017-8	11.8 / 10.9	N*	Y	Y
	560280C-8	560280CE-8	4.080/-10cc Dish	46018-8	11.8 / 10.9	N*	Y	Y
6.125" Rod P/N Description	560300C-8	560300CE-8	4.125/-10cc Dish	46060-8	12.0 / 11.1	N*	Y	Y
	560305C-8	560305CE-8	4.130/-10cc Dish	46061-8	12.0 / 11.1	N*	Y	Y
	560310C-8	560310CE-8	4.135/-10cc Dish	46062-8	12.1 / 11.1	N*	Y	Y
14051-8 H-Beam or 15051R-8 H-Tuff or 14559-8 SW I-Beam	560465C-8	560465CE-8	4.065/-20cc Dish	46016-8	10.5 / 9.8	N*	Y	Y
	560470C-8	560470CE-8	4.070/-20cc Dish	46017-8	10.5 / 9.8	N*	Y	Y
	560475C-8	560475CE-8	4.075/-20cc Dish	46017-8	10.6 / 9.9	N*	Y	Y
	560480C-8	560480CE-8	4.080/-20cc Dish	46018-8	10.6 / 9.9	N*	Y	Y
	560500C-8	560500CE-8	4.125/-20cc Dish	46060-8	10.8 / 10.1	N*	Y	Y
	560505C-8	560505CE-8	4.130/-20cc Dish	46061-8	10.8 / 10.1	N*	Y	Y
Bearing P/N Description	560510C-8	560510CE-8	4.135/-20cc Dish	46062-8	10.9 / 10.1	N*	Y	Y

*N = Factory balanced to +/- 1% of bobweight

Order part number **04000-1** for precision balancing to within 5 grams

Note: "SW" = "Standard Weight" design rod

*HX Series rod bearings with .001" extra clearance

CRANKSHAFTS

Chrysler 5.7L/6.1L/6.4L Hemi

4340 Forged Crankshafts

Manley Performance "PRO SERIES" stroker crankshaft designed for the small block HEMI engine... Manufactured from a premium 4340 steel forging, these cranks feature a 4.050" stroke which can turn your 5.7L into a 392 c.i. engine and your 6.1L/6.4L into a 426 c.i. engine. The Manley 4.050" stroke HEMI crankshaft features small block Chevy small journal (2.000") crank pin diameters and widths. This provides taller "side walls" on the crankshaft rod journals for better oil control and reduced windage. The counterweights are profiled for 6.125" length connecting rods. All crankshafts are shipped with either a 32 tooth or 58 tooth reluctor wheel installed.

- ▶ 4340 material forging
- ▶ Multi-step heat treatment process and nitrided for added strength
- ▶ Stress relieved, shot-peened and 100% magnafluxed
- ▶ Micro polished large radius journals (narrowed rod bearings required)
- ▶ Dual keyed post for supercharger drive pulleys
- ▶ Gun drilled mains and lightened rod journals for weight reduction
- ▶ Counterweights fully profiled



Part No.	Application	Reluctor Wheel	Stroke	Bobweight (grams)	Total Weight (lbs.)
191832	5.7L Up to 2008 6.1L	32	4.050"	1730	49-51
191832NB	5.7L Up to 2008 6.1L	32	4.050"	See Note**	49-51
192432	5.7L Up to 2008 6.1L	32	4.050"	1770	49-51
191858*	5.7L 2009-2012 6.4L 2011-2012	58	4.050"	1730	49-51
191858NB*	5.7L 2009-2012 6.4L 2011-2012	58	4.050"	See Note**	49-51
192458*	5.7L 2009-2012 6.4L 2011-2012	58	4.050"	1770	49-51
191958*	5.7L/6.4L 2013 - Up	58	4.050"	1730	49-51
191958NB*	5.7L/6.4L 2013 - Up	58	4.050"	See Note**	49-51
192558*	5.7L/6.4L 2013 - Up	58	4.050"	1770	49-51

The stock timing crank gear may need to be chamfered to clear the larger radius on the snout of the crankshaft

Note: All 2012 and earlier 58 tooth reluctor wheels have a tooth width of .170"

All 2013 and later 58 tooth reluctor wheels have a tooth width of .130", along with a dimple in the rear face of the wheel.

All reluctor wheels are attached with 4 fasteners.

Note: Manley crankshafts are not intended for use with highly boosted roots style cog belt superchargers

*Note: When installing these crankshafts in a VVT engine, you also need to order a crankshaft gear spacer part number **42000**.

** These cranks are not balanced and have non-drilled counterweights

Precision Balancing Information

Part No.	Bobweight Modification
04004-1	Precision balancing the crankshaft from -200 to -71 grams from the published bobweight
04000-1	Precision balancing the crankshaft from -70 to +20 grams from the published bobweight
04005-1	Precision balancing the crankshaft from +21 to +80 grams from the published bobweight
04006-1	Precision balancing the crankshaft from +81 to +160 grams from the published bobweight

With our "PRO SERIES" 4.050" stroke small block HEMI crankshafts, we have the ability to offer our customers complete rotating assemblies utilizing Manley Platinum Series pistons and Manley H-Beam or Pro Series I-Beam connecting rods. See Pages 179-180.

Note: New part numbers are **BOLD & ITALICIZED**

CUSTOM ROTATING ASSEMBLIES

Chrysler 5.7L/6.1L/6.4L Rotating Assemblies

Ordering a Manley SB HEMI rotating assembly is as easy as 1-2-3...

1. Choose your crankshaft part number based on required reluctor wheel for your vehicle and order the corresponding rod and main bearing part numbers shown
2. Choose your connecting rod part number
3. Choose your piston part number based on bore size and desired compression ratio and the corresponding piston ring part number

Ordering all of the required components for your SB HEMI rotating assembly from Manley will result in extra \$ savings. Please contact your Manley representative for more details.

Order part number **04000-1** for precision balancing to within 5 grams

CRANKS

- ▶ Lightweight 4340 material forging
- ▶ Multi-step heat treatment process and nitrided for added strength
- ▶ Stress relieved, shot-peened and 100% magnafluxed
- ▶ Micro polished large radius journals
- ▶ Available with either 32 or 58 tooth reluctor wheels
- ▶ Gun drilled mains and lightened rod journals for weight reduction
- ▶ Counterweights fully profiled

RODS

- ▶ Lightweight design 4340 material forgings
- ▶ Fully machined, heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Big and small end bores are final honed to a tolerance of $\pm .0002$ "
- ▶ Bend and twist is tightly controlled
- ▶ Weight matched to +/- 1.5 grams
- ▶ H-Beam comes standard with 7/16" ARP 8740 bolts (affix an R suffix for ARP 2000 bolt upgrade)
- ▶ H-Tuff comes standard with 7/16" ARP 2000 bolts
- ▶ I-Beam comes standard with 7/16" ARP 2000 bolts (affix an R6 suffix for ARP 625+ bolt upgrade)

PISTONS

- ▶ High strength 2618 alloy forgings
- ▶ Exacting ring groove squareness to cylinder wall provides maximum horsepower.
- ▶ Offset wrist pin design
- ▶ Premium Chrome Moly pin included with Standard Series
- ▶ 9310 Alloy pin included with Extreme Duty Series
- ▶ Moly coated skirts

RINGS

- ▶ 1.5 x 1.5 x 3mm High Performance (moly in-lay tops standard)
- ▶ Premium steel top rings are optional (affix ST suffix)
- ▶ Total Seal Gapless® steel top ring sets also available (affix GT suffix)

BEARINGS

- ▶ Premium Clevite® "H" Series narrowed rod bearings and "P" Series or "H" Series main bearings

Chrysler 5.7L Hemi Series

Lightweight 1730gm. Bobweight 4.050" Stroke Cranks

Crank P/N Reluctor Wheel	Piston Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio			Balance Req. (Y/N)		
					85cc	65cc	74cc	14056-8	15056R-8	14255-8
191832 32 Tooth Up to 2008 or 191858 58 Tooth 2009-2012 or 191958 58 Tooth 2013 - Up	597200C-8	597200CE-8	3.917/-1.5cc F/T	46120-8	9.33:1	11.52:1	10.41:1	N*	Y	Y
	597205C-8	597205CE-8	3.922/-1.5cc F/T	46121-8	9.35:1	11.54:1	10.43:1	N*	Y	Y
	597220C-8	597220CE-8	3.937/-1.5cc F/T	46122-8	9.41:1	11.62:1	10.50:1	N*	Y	Y
6.125" Rod P/N Description	597300C-8	597300CE-8	3.917/-14cc Dish	46120-8	8.37:1	10.03:1	9.20:1	N*	Y	Y
	597305C-8	597305CE-8	3.922/-14cc Dish	46121-8	8.39:1	10.06:1	9.22:1	N*	Y	Y
	597320C-8	597320CE-8	3.937/-14cc Dish	46122-8	8.44:1	10.12:1	9.28:1	N*	Y	Y
14056-8 H-Beam or 15056R-8 H-Tuff or 14255-8 SW I-Beam	598500C-8	598500CE-8	3.917/-23cc Dish	46120-8	7.80:1	9.20:1	8.51:1	N*	Y	Y
	598505C-8	598505CE-8	3.922/-23cc Dish	46121-8	7.82:1	9.22:1	8.53:1	N*	Y	Y
	598520C-8	598520CE-8	3.937/-23cc Dish	46122-8	7.87:1	9.28:1	8.58:1	N*	Y	Y
Bearing P/N Description										
	30020 or 30020X* Rod 33050 or 33050H Main									

*N = Factory balanced to +/- 1% of bobweight

Order part number **04000-1** for precision balancing to within 5 grams

Note: "SW" = "Standard Weight" design rod

* HX Series rod bearings with .001" extra clearance

CUSTOM ROTATING ASSEMBLIES

Chrysler 6.1L Hemi Series

Lightweight 1730gm. Bobweight 4.050" Stroke Cranks

Crank P/N Reluctor Wheel	Piston Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio 74cc	Balance Req. (Y/N)		
						14056-8	15056R-8	14255-8
191832 32 Tooth	597860C-8	597860CE-8	4.060/-1.5cc F/T	46116-8	10.72:1	Y	Y	Y
	597865C-8	597865CE-8	4.065/-1.5cc F/T	46116-8	10.74:1	Y	Y	Y
	597880C-8	597880CE-8	4.080/-1.5cc F/T	46118-8	10.81:1	Y	Y	Y
6.125" Rod P/N Description	598660C-8	598660CE-8	4.060/-11.5cc Dish	46116-8	9.73:1	Y	Y	Y
	14056-8 H-Beam or 15056R-8 H-Tuff	598665C-8 598665CE-8	4.065/-11.5cc Dish	46116-8	9.75:1	Y	Y	Y
	15056R-8 H-Tuff or 14255-8 SW I-Beam	598680C-8 598680CE-8	4.080/-11.5cc Dish	46118-8	9.82:1	Y	Y	Y
Bearing P/N Description	598760C-8	598760CE-8	4.060/-24cc Dish	46116-8	8.75:1	N*	Y	Y
	598765C-8	598765CE-8	4.065/-24cc Dish	46116-8	8.77:1	N*	Y	Y
	598780C-8	598780CE-8	4.080/-24cc Dish	46118-8	8.82:1	Y	Y	Y
30020 or 30020X* Rod 33050 or 33050H Main								

Chrysler 6.4L Hemi Series

Lightweight 1730gm. Bobweight 4.050" Stroke Cranks

Crank P/N Reluctor Wheel	Piston Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Compression Ratio 72cc	Balance Req. (Y/N)		
						14056-8	15056R-8	14255-8
191858 58 Tooth 2011-2012 or 191958 58 Tooth 2013 - Up	599800C-8	599800CE-8	4.090/-5cc Dish	46129ST-8	11.00	Y	Y	Y
	599805C-8	599805CE-8	4.095/-5cc Dish	46130ST-8	11.01	Y	Y	Y
	599810C-8	599810CE-8	4.100/-5cc Dish	46131ST-8	11.02	Y	Y	Y
6.125" Rod P/N Description	599900C-8	599900CE-8	4.090/-20.5cc Dish	46129ST-8	9.50	Y	Y	Y
	14056-8 H-Beam or 15056R-8 H-Tuff or 14255-8 SW I-Beam	599905C-8 599905CE-8	4.095/-20.5cc Dish	46130ST-8	9.51	Y	Y	Y
	Bearing P/N Description	599910C-8	599910CE-8	4.100/-20.5cc Dish	46131ST-8	9.52	Y	Y
30020 or 30020X* Rod 33050 or 33050H Main								



*N = Factory balanced to +/- 1% of bobweight
Order part number 04000-1 for precision balancing to within 5 grams

Note: "SW" = "Standard Weight" design rod
* HX Series rod bearings with .001" extra clearance

Ford 351C & Windsor (2.750" Main) Crankshafts

- ▶ 4340 material forgings
- ▶ Multi-step heat treatment process and nitrided for added strength
- ▶ Stress relieved, shot-peened and 100% magnafluxed
- ▶ Micro polished large radius journals (narrowed rod bearings required)
- ▶ Lightened rod journals for weight reduction
- ▶ Counterweights fully profiled

Part No.	Stroke	Minimum Rod Length	Main Journal Diameter	Rod Journal Diameter	Bobweight (grams)	Total Weight (lbs.)
190330*	3.850"	6.125"	2.750"	2.100"	1800	58-60
190340**	4.100"	6.200"	2.750"	2.100"	1860	58-60

* 3.850" stroke crank intended for use with Cleveland 9.200" deck blocks with 2.750" mains

** 4.100" stroke crank intended for use with Windsor 9.500" deck aftermarket blocks with 2.750" mains

Note: Manley crankshafts are not intended for use with highly boosted roots style cog belt superchargers

Precision Balancing Information

Part No.	Bobweight Modification
04004-1	Precision balancing the crankshaft from -200 to -71 grams from the published bobweight
04000-1	Precision balancing the crankshaft from -70 to +20 grams from the published bobweight
04005-1	Precision balancing the crankshaft from +21 to +80 grams from the published bobweight
04006-1	Precision balancing the crankshaft from +81 to +160 grams from the published bobweight

Ford 351C & Windsor (2.750" Main) w/ Cleveland Heads

Rotating Assemblies

- ▶ 4340 Forged steel crankshaft
- ▶ 4340 Forged steel H-Beam connecting rods with 7/16" ARP 8740 or optional ARP 2000 cap screws (P/N's 28438 & 28445) and Pro Series I-Beam Lightweight connecting rods with 7/16" ARP 2000 cap screws standard (P/N's 39393 & 39395)
- ▶ 2618 Forged aluminum Platinum Series pistons with Premium Chrome Moly wrist pins
- ▶ High Performance piston rings & high performance Clevite® "H" Series rod bearings (narrowed) and "P" or "H" Series main bearings

Note: All rotating assemblies listed below are factory balanced to within +/- 1% of bobweight. Order part number 04000-1 for precision balancing to within 5 grams

Part No.	Stroke	CID	Crank P/N	Rod Length	Rod P/N	Bore Size	Piston P/N	Piston Type	Compression Ratio				Piston Ring Package	Piston Ring P/N
									62cc	64cc	72cc	80cc		
39393*	3.850"	393	190330	6.125"	14355	4.030"	599330-8	Flat -3.5cc	11.7	11.4	10.4	9.6	1.5mm, 3mm	46113
39395*	3.850"	395	190330	6.125"	14355	4.040"	599340-8	Flat -3.5cc	11.7	11.5	10.5	9.7	1.5mm, 3mm	46114
28438**	4.100"	438	190340	6.250"	14067	4.125"	599400-8	Dish -11cc	11.9	11.7	10.7	10.0	1.5mm, 3mm	46360
28445**	4.100"	445	190340	6.250"	14067	4.155"	599430-8	Dish -11cc	12.1	11.8	10.9	10.1	1.5mm, 3mm	46363

* 3.850" stroke crank intended for use with Cleveland 9.200" deck blocks with 2.750" mains

** 4.100" stroke crank intended for use with Windsor 9.500" deck aftermarket blocks with 2.750" mains

Add an "R" to the assembly part number to order the optional ARP 2000 rod bolt upgrade

Add an "H" to the assembly part number to order the optional "H" Series main bearings

Add an "X" to the assembly part number to order the optional "X" Series rod bearings with .001" extra clearance

Bearing Chart

Clevite® "H" Series Rod Bearings	Clevite® "HX" Series Rod Bearings	Clevite® "P" Series Main Bearings	Clevite® "H" Series Main Bearings
30010	30010X	33100	33100H

CRANKSHAFTS & ROTATING ASSEMBLIES

Ford 4.6L Modular

Manley Performance "PRO SERIES" crankshafts designed for the Ford 4.6L Modular engine... Manufactured from a premium 4340 steel forging, these cranks feature either the stock 3.543" stroke or an increased stroke of 3.750", turning your 4.6L into a 5.0L or larger depending on your bore.

- ▶ 4340 material forgings
- ▶ Multi-step heat treatment process and nitrided for added strength
- ▶ Stress relieved, shot-peened and 100% magnafluxed
- ▶ Micro polished large radius journals (narrowed rod bearings required)
- ▶ Lightened rod journals for weight reduction
- ▶ Counterweights fully profiled



Part No.	Stroke	Minimum Rod Length	Main Journal Diameter	Rod Journal Diameter	Bobweight (grams)	Total Weight (lbs.)
190350	3.543"	5.933"	2.6572"	2.0863"	unbalanced	51-53
190360	3.750"	5.850"	2.6572"	2.0000"	unbalanced	51-53
190370	3.800"	5.850"	2.6572"	2.0000"	unbalanced	51-53

The stock timing crank gear may need to be chamfered to clear the larger radius on the snout of the crankshaft. These crankshafts are designed with an 8 bolt pattern flywheel. They can be used in place of 6 bolt pattern crankshafts when used along with an OEM or aftermarket 8 bolt flywheel.

Note: Manley crankshafts are not intended for use with highly boosted roots style cog belt superchargers

Precision Balancing Information

Part No.	Bobweight Modification
04004-1	Precision balancing the crankshaft from -200 to -71 grams from the published bobweight
04000-1	Precision balancing the crankshaft from -70 to +20 grams from the published bobweight
04005-1	Precision balancing the crankshaft from +21 to +80 grams from the published bobweight
04006-1	Precision balancing the crankshaft from +81 to +160 grams from the published bobweight

Ford Mod "Ready To Run" Rotating Assemblies

- ▶ Lightweight 4340 forged steel crankshaft
- ▶ 4340 Forged steel H-Beam connecting rods with 3/8" ARP 8740 cap screws or optional ARP 2000 cap screws
- ▶ 2618 Forged aluminum Platinum Series pistons with Premium Chrome Moly wrist pins
- ▶ High Performance piston rings & high performance Clevite® "H" Series rod bearings (narrowed)
- ▶ Available as an Unbalanced (NOT Ready To Run) or a Precision Balanced (Ready To Run) assembly

Unbalanced Part No.	Precision Balanced Part No.	Stroke	CID	Crank P/N	Rod Length	Rod P/N	Bore Size	Piston P/N	Piston Type	Compression			Piston Ring Package	Piston Ring P/N
										42cc	51cc	52cc		
2 & 4 VALVE CYLINDER HEAD														
28120UB*	28120PB*	3.543"	284	190350	5.933"	14042	3.572"	594120C	Dish -11cc	10.64	9.39	9.27	1.5mm, 3mm	46620
29220UB*	29220PB*	3.750"	300	190360	5.850"	14044	3.572"	595220C	Dish -18cc	10.14	9.06	8.96	1.5mm, 3mm	46620
3 VALVE CYLINDER HEAD														
28320UB*	28320PB*	3.543"	284	190350	5.933"	14042	3.572"	594320C	Dish -6.5cc	-	9.95	-	1.5mm, 3mm	46620
29520UB*	29520PB*	3.750"	300	190360	5.850"	14044	3.572"	595220C	Dish -14cc	-	9.51	-	1.5mm, 3mm	46620

*Main bearings not included with kit. Ford block M-6010-BOSS50 uses main bearing **33130**. Order part number **33120** (Romeo Iron), **33130** (Windsor Iron) or **33140** (Windsor Aluminum).

Add an "R" to the assembly part number to order the optional ARP 2000 rod bolt upgrade

Note: New part numbers are **BOLD & ITALICIZED**

Ford Modular 4.6L Rotating Assemblies

Ordering a Manley Ford Mod rotating assembly is as easy as 1-2-3.....

1. Choose your crankshaft part number based on stroke and order the corresponding rod and main bearing part numbers shown
2. Choose your connecting rod part number
3. Choose your piston part number based on bore size and desired compression ratio along with the corresponding piston ring part number

Ordering all of the required components for your Ford Mod rotating assembly from Manley will result in extra \$ savings. Please contact your Manley representative for more details.

CRANKS

- ▶ Lightweight 4340 material forgings
- ▶ Multi-step heat treatment process and nitrided for added strength
- ▶ Stress relieved, shot-peened and 100% magnafluxed
- ▶ Micro polished large radius journals
- ▶ Lightened rod journals for weight reduction
- ▶ Counterweights fully profiled

RODS

- ▶ Lightweight design 4340 material forgings
- ▶ Fully machined, heat treated, stress relieved, shot peened and 100% magnafluxed
- ▶ Big and small end bores are final honed to a tolerance of +/- .0002"
- ▶ Bend and twist is tightly controlled
- ▶ Weight matched to +/- 1.5 grams
- ▶ H-Beam comes standard with 3/8" ARP 8740 bolts (affix an R suffix for ARP 2000 bolt upgrade)
- ▶ H-Tuff comes standard with 3/8" ARP 2000 bolts
- ▶ I-Beam comes standard with 7/16" ARP 2000 bolts (affix an R6 suffix for ARP 625+ bolt upgrade)

PISTONS

- ▶ High strength 2618 alloy forgings
- ▶ Exacting ring groove squareness to cylinder wall provides maximum horsepower.
- ▶ Offset wrist pin design
- ▶ Premium Chrome Moly pin included with Standard Series
- ▶ 9310 Alloy pin included with Extreme Duty Series
- ▶ Moly coated skirts

RINGS

- ▶ 1.5 x 1.5 x 3mm High Performance (moly in-lay tops standard)
- ▶ Premium steel top rings are optional (affix ST suffix)
- ▶ Total Seal Gapless® steel top ring sets also available (affix GT suffix)

BEARINGS

- ▶ Premium Clevite® "H" Series narrowed rod bearings and "P" Series or "H" Series main bearings

FORD 4.6L SOHC 3 VALVE (2004-up)

Lightweight unbalanced 3.543" Stroke Crank

Crank P/N	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Comp. Ratio 51cc	Balance Req. (Y/N) H-Beam	Balance Req. (Y/N) H-Tuff	Balance Req. (Y/N) SW I-Beam
190350	594300C-8	594300CE-8	3.552/-6.5cc Dish	46600-8	9.86	Y	Y	Y
Rod P/N Description	594320C-8	594320CE-8	3.572/-6.5cc Dish	46620-8	9.95	Y	Y	Y
	594330C-8	594330CE-8	3.582/-6.5cc Dish	46630-8	10.00	Y	Y	Y
14042-8 H-Beam or 15042R-8 H-Tuff or 14518-8 SW I-Beam	594500C-8	594500CE-8	3.552/-14cc Dish	46600-8	8.94	Y	Y	Y
	594520C-8	594520CE-8	3.572/-14cc Dish	46620-8	9.03	Y	Y	Y
15042R-8 H-Tuff or 14518-8 SW I-Beam	594530C-8	594530CE-8	3.582/-14cc Dish	46630-8	9.07	Y	Y	Y
	594570C-8	594570CE-8	3.700/-14cc Dish	46670-8	9.58	Y	Y	Y
Bearing P/N Description Block Type		30120 or 30120X* Rod All	33120 or 33120H Main Romeo Iron	33130 or 33130H Main Windsor Iron and M-6010-BOSS50		33140 or 33140H Main Windsor Aluminum		

Lightweight unbalanced 3.750" Stroke Crank

Crank P/N	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Comp. Ratio 51cc	Balance Req. (Y/N) H-Beam	Balance Req. (Y/N) LW I-Beam	Balance Req. (Y/N) SW I-Beam
190360	595500C-8	595500CE-8	3.552/-14cc Dish	46600-8	9.41	Y	Y	Y
Rod P/N Description	595520C-8	595520CE-8	3.572/-14cc Dish	46620-8	9.51	Y	Y	Y
	595530C-8	595530CE-8	3.582/-14cc Dish	46630-8	9.55	Y	Y	Y
14044-8 H-Beam or 14320-8 LW I-Beam or 14520-8 SW I-Beam	595570C-8	595570CE-8	3.700/-18cc Dish	46670-8	9.64	Y	Y	Y
Bearing P/N Description Block Type		30120 or 30120X* Rod All	33120 or 33120H Main Romeo Iron	33130 or 33130H Main Windsor Iron and M-6010-BOSS50		33140 or 33140H Main Windsor Aluminum		

Note: "LW" = "Lightweight" design rod and "SW" = "Standard Weight" design rod
* HX Series rod bearings with .001" extra clearance

CUSTOM ROTATING ASSEMBLIES

FORD 4.6L SOHC/DOHC 2 & 4 VALVE (1991-up)

Lightweight unbalanced 3.543" Stroke Crank

Crank P/N	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Comp. Ratio			Balance Req. (Y/N)		
					42cc	51cc	52cc	H-Beam	H-Tuff	SW I-Beam
190350	594000C-8	594000CE-8	3.552/Flat Top	46600-8	12.65	10.86	10.69	Y	Y	Y
Rod P/N Description	594020C-8	594020CE-8	3.572/Flat Top	46620-8	12.78	10.97	10.80	Y	Y	Y
	594030C-8	594030CE-8	3.582/Flat Top	46630-8	12.85	11.02	10.85	Y	Y	Y
14042-8 H-Beam or 15042R-8 H-Tuff or 14518-8 SW I-Beam	594070C-8	594070CE-8	3.700/Flat Top	46670-8	13.55	11.63	11.45	Y	Y	Y
	594100C-8	594100CE-8	3.552/-11cc Dish	46600-8	10.53	9.29	9.18	Y	Y	Y
	594120C-8	594120CE-8	3.572/-11cc Dish	46620-8	10.64	9.39	9.27	Y	Y	Y
	594130C-8	594130CE-8	3.582/-11cc Dish	46630-8	10.69	9.43	9.31	Y	Y	Y
594170C-8	594170CE-8	3.700/-11cc Dish	46670-8	11.33	9.99	9.86	Y	Y	Y	
594200C-8	594200CE-8	3.552/-18cc Dish	46600-8	9.54	8.53	8.44	Y	Y	Y	
594220C-8	594220CE-8	3.572/-18cc Dish	46620-8	9.63	8.63	8.52	Y	Y	Y	
594230C-8	594230CE-8	3.582/-18cc Dish	46630-8	9.68	8.66	8.56	Y	Y	Y	
594270C-8	594270CE-8	3.700/-18cc Dish	46670-8	10.21	9.13	9.03	Y	Y	Y	
594400C-8	594400CE-8	3.552/-23cc Dish	46600-8	8.95	8.07	7.98	Y	Y	Y	
594420C-8	594420CE-8	3.572/-23cc Dish	46620-8	9.04	8.15	8.06	Y	Y	Y	
594430C-8	594430CE-8	3.582/-23cc Dish	46630-8	9.08	8.19	8.10	Y	Y	Y	
594470C-8	594470CE-8	3.700/-23cc Dish	46670-8	9.58	8.64	8.54	Y	Y	Y	
Bearing P/N Description Block Type	30120 or 30120X* Rod All		33120 or 33120H Main Romeo Iron	33130 or 33130H Main Windsor Iron and M-6010-BOSS50	33140 or 33140H Main Windsor Aluminum					



CRANKS & KITS

Note: "SW" = "Standard Weight" design rod

* HX Series rod bearings with .001" extra clearance

CUSTOM ROTATING ASSEMBLIES

FORD 4.6L SOHC/DOHC 2 & 4 VALVE (1991-up)

Lightweight unbalanced 3.750" Stroke Crank

Crank P/N	Standard Part No.	Extreme Duty Part No.	Piston Description	Ring Part No.	Comp. Ratio			Balance Req. (Y/N)		
					42cc	51cc	52cc	H-Beam	LW I-Beam	SW I-Beam
190360	595000C-8	595000CE-8	3.552/Flat Top	46600-8	13.33	11.43	11.26	Y	Y	Y
Rod P/N Description	595020C-8	595020CE-8	3.572/Flat Top	46620-8	13.47	11.55	11.37	Y	Y	Y
	595030C-8	595030CE-8	3.582/Flat Top	46630-8	13.54	11.61	11.43	Y	Y	Y
14044-8 H-Beam or 14320-8	595100C-8	595100CE-8	3.552/-11cc Dish	46600-8	11.09	9.78	9.65	Y	Y	Y
	595120C-8	595120CE-8	3.572/-11cc Dish	46620-8	11.20	9.88	9.75	Y	Y	Y
LW I-Beam or 14520-8	595130C-8	595130CE-8	3.582/-11cc Dish	46630-8	11.25	9.92	9.80	Y	Y	Y
	595200C-8	595200CE-8	3.552/-18cc Dish	46600-8	10.04	8.97	8.87	Y	Y	Y
	595220C-8	595220CE-8	3.572/-18cc Dish	46620-8	10.14	9.06	8.96	Y	Y	Y
	595230C-8	595230CE-8	3.582/-18cc Dish	46630-8	10.19	9.11	9.00	Y	Y	Y
	595270C-8	595270CE-8	3.700/-18cc Dish	46670-8	10.75	9.61	9.50	Y	Y	Y
	595400C-8	595400CE-8	3.552/-23cc Dish	46600-8	9.41	8.48	8.39	Y	Y	Y
	595420C-8	595420CE-8	3.572/-23cc Dish	46620-8	9.51	8.57	8.47	Y	Y	Y
	595430C-8	595430CE-8	3.582/-23cc Dish	46630-8	9.55	8.61	8.52	Y	Y	Y
	595470C-8	595470CE-8	3.700/-23cc Dish	46670-8	10.08	9.08	8.98	Y	Y	Y
	595600C-8	595600CE-8	3.552/-28cc Dish	46600-8	8.87	8.05	7.97	Y	Y	Y
	595620C-8	595620CE-8	3.572/-28cc Dish	46620-8	8.96	8.13	8.05	Y	Y	Y
	595630C-8	595630CE-8	3.582/-28cc Dish	46630-8	9.00	8.17	8.09	Y	Y	Y
	595670C-8	595670CE-8	3.700/-28cc Dish	46670-8	9.50	8.62	8.53	Y	Y	Y
Bearing P/N Description Block Type	30020 or 30020X* Rod All		33120 or 33120H Main Romeo Iron	33130 or 33130H Main Windsor Iron	33140 or 33140H Main Windsor Aluminum					



MPR Racing Engines

Note: "LW" = "Lightweight" design rod and "SW" = "Standard Weight" design rod
* HX Series rod bearings with .001" extra clearance

4 oz. Extreme Pressure Lube #3

- ▶ The assembly lubricant preferred by top engine builders
- ▶ Can be used as a rod bolt lubricant



Part No.	Quantity	Description
40177	1	Extreme Pressure Lube #3

Manley Lube

For Connecting Rod Bolts

- ▶ Provides superior lubrication for rod bolt assembly



Part No.	Quantity	Description
40171	1/2 oz.	Manley Rod Bolt Assembly Lube
40172	1 oz.	Manley Rod Bolt Assembly Lube

2 oz. Moly Lube

- ▶ Molybdenum disulfide is excellent as a break in coating for camshafts, lifters, pushrod ends and rocker balls.



Part No.	Quantity	Description
40199	1	Moly lube

ARP Ultra-Torque® Fastener Assembly Lube

- ▶ Can be used for torquing engine fasteners



Part No.	Quantity	Description
40170	1/2 oz.	Fastener Assembly Lube

Pushrod Length Checker

- ▶ Long valves, milled heads, cut blocks, small base circle camshafts all move rocker geometry far from optimum
- ▶ Correct length pushrods keep rockers centered on the valve tip and reduce stem and guide wear
- ▶ Checker tells the engine builder instantly what length pushrod is required

Part No.	Quantity	Description
42137	1	Small Block Chevys w/ 3/8" studs
42132	1	Small Block Chevys w/ 7/16" studs
42133	1	Big Block Chevys (intakes and exhausts)



Valve Spring Chamfering Tool

- ▶ Detailing valve springs is crucial to preserving retainer life
- ▶ ID chamfering of springs provides clearance and distributes stress along flat surface of retainer step rather than the corner radii

Part No.	Quantity	Description
40174	1	Chamfering tool w/ 4 abrasive cones
40175	12 pcs.	Replacement abrasive cones
40176	25 pcs.	Replacement abrasive cones



Valve Spring Compressor Tool

- ▶ Sturdy black oxide tools for changing valve springs
- ▶ Rated for 350 lbs. maximum open spring pressure

Part No.	Quantity	Description
41870	1	Compressor tool for all Chryslers and Fords with rocker shafts



Short Sleeve T-Shirts

▶ Made with a 60% cotton/40% polyester blend, the Manley logo is shown vertically on the front with a piston/connecting rod design on the back that is made up of the Manley logo.

Size	Black Part No.	Gray Part No.
Small	00005	00035
Medium	00004	00034
Large	00003	00033
X Large	00002	00032
XX Large	00001	00031



Gray T-Shirt Front



Black T-Shirt Back

Black Ladies Fit Tops

▶ Same 60% cotton/40% polyester blend and printed design as our t-shirts except in a comfortable ladies fit top.

Size	Part No.
Small	00065
Medium	00064
Large	00063
X Large	00062
XX Large	00061



Ladies Fit Front



Ladies Fit Back

Black Pullover Hoodies

▶ Pullover style made with a 50% cotton/50% polyester blend with a full front pocket.

Size	Hoodie Part No.
Small	00205
Medium	00204
Large	00203
X Large	00202
XX Large	00201



Hoodie Front



Hoodie Back Design

FLEXFIT® Brand Fitted Hats

▶ Available in two sizes; S-M and L-XL, these black 98% cotton hats feature the Manley logo embroidered in black and gray on the front left.

Size	Part No.
S-M	00010
L-XL	00012



Embroidered Mechanics Apron

- ▶ Attractive black cotton/polyester with embroidered Manley logo in red and white
- ▶ Large twin front pockets

Size	Part No.
Fits All	42014



Vinyl Printed Banners

Smaller Size White, Red and Black Design

- ▶ Made from durable 13-oz. vinyl material with 10 grommets around the border for easy hanging

Size	Part No.
52" x 19"	00008



Larger Size White, Red and Black Design

- ▶ Made from durable 13-oz. vinyl material with 10 grommets around the border for easy hanging

Size	Part No.
96" x 30"	00008TS



Larger Size White and Red Design

- ▶ Made from durable 13-oz. vinyl material with 8 grommets around the border for easy hanging

Size	Part No.
72" x 36"	00013



Premium Quality Polyester Lanyard

- ▶ Printed with the MANLEY® Powers the Winners logo on both sides and a Lobster Claw Lanyard Attachment

Size	Part No.
5/8" x 36"	LAN-BLACK



Did You Know...

... in 1929 you could purchase a Manley 25 ton hydraulic press for \$115.00 or a 2 1/2 ton hydraulic jack for \$48.00. Both products were invented by Robert E. Manley then operating the Manley Manufacturing Company of Bridgeport, Connecticut.

... in 1931 the Eastern Valve Company of Hanover, Pennsylvania was purchased by Robert E. Manley, moved to York, Pennsylvania and renamed the Manley Products Corporation.

... in 1934 you could purchase Manley replacement Model T engine valves for \$8.00 - per 100 pieces.

... in 1940 the price of Model T valves had actually dropped to \$7.55 per 100 pieces. Depression!

... in 1950 Model T valves were sold for about \$16.00 per 100 pieces. Post war inflation!

... in 1966 Manley Performance Products, Inc. was founded by Henry D. Manley III. Forged pistons were sold for \$50.72 per set.

... in 1968 the Manley line included stainless valves, camshafts, lifters, vanadium valve springs, push rods and timing chain kits.

... in 1969 the race cars of Don Garlits, Bo Laws, and Joe Mondello appeared on the cover of the Manley Performance catalog.

... in 1971 Bill Jenkins' Grumpy's Toy made the first of ten appearances on the cover of the Manley Performance catalog.

... in 1983 Manley introduced its line of aluminum connecting rods. The jobber price was \$394.56 per set.

... in 1986, Manley's 20th year, "H" beam steel connecting rods were introduced at \$788.00 per set jobber price.

... in 1988 Manley Performance moved the factory from 13 Race Street in Bloomfield, NJ, to its present location in Lakewood, NJ.

... in 1997 Manley Performance introduced its Platinum Series of pistons.

... in 1998 an expansion of the factory doubled the manufacturing floor-space.

... in 2000 The Manley Performance "Gen II" custom stainless steel valve program is born and revolutionizes the custom valve market.

... in 2001 Manley Performance celebrated its 35th year of serving the racing and performance industry. Thank you to all our customers and especially the racers who trusted our products!

... in 2002 Manley entered the high performance passenger car market as an OEM supplier of connecting rods for the 2003 / 2004 Ford SVT Mustang Cobra.

... in 2004 Manley continued its presence in the OEM market as a connecting rod supplier for the Ford GT. In addition, Manley also sold the first set of their popular "Turbo Tuff®" connecting rods for the Mitsubishi 4G63 engine. The first of many to come!

... in 2005 Manley adds Platinum Series Mitsubishi pistons to the line.

... in 2006 Manley introduces "Turbo Tuff" connecting rods for the Subaru WRX/STi. Manley also celebrates its 40th anniversary in the performance aftermarket.

194 *JOBBER TOPICS* December, 1934

Robert E. Manley
ANNOUNCES
A Real Jobber Line

ROBERT E. MANLEY, for many years President of the Manley Manufacturing Company and now President of Manley Products Corporation, announces "The Royal Quality Line" of motor valves to be sold through Automotive jobbers. A line of quality valves with which the jobber can profitably meet all competition on Ford, Chevrolet and Plymouth business. "The Royal Quality Line" is destined to be the sales feature of 1935 among Automotive jobbers. Write immediately for details.

MANLEY PRODUCTS CORP.
York, Pa.

... in 2008 Manley significantly expands its Platinum Series piston line for Chevy LS engine applications to compliment their connecting rod, valve and valve train offerings for this market segment.

... in 2010 Manley introduces a line of superior crankshafts and rotating assemblies for traditional SB, BB, and LS Series Chevrolets, Chrysler Hemis and Sport Compacts.

... in 2011, our 45th year in business, Manley develops a host of new products for the Ford 5.0L "Coyote" and 6.2L "Raptor" engines, adds Mitsubishi EVO X crankshafts and introduces connecting rods for diesel applications.

... in 2012, Manley DOUBLES their sport compact H-Beam offerings, develops unique, "drop-in" pistons for the venerable Nissan GT-R and expands the line of Chevy LS Crankshafts.

... in 2013, a second expansion of the factory increases the manufacturing floor space by over 40%.

... in 2015, the Manley West expansion is completed; doubling the size of our distribution facility in Orange, CA.

... in 2016, Manley celebrates its Golden Anniversary..... 50 years of manufacturing excellence and quality service for the performance aftermarket

PERFORMANCE

BY THE NUMBERS...

Manley presents some handy charts and formulas to guide you in building engines.

ENGINE DISPLACEMENT

Calculating Cubic Inches

Multiply bore x bore x stroke x number of cylinders x .7854
Example: $4.030 \times 4.030 \times 3.480 \times 8 \times .7854 = 355.1$ cubic inches

Converting Cubic Inches to Liters

Multiply the cubic inches by .01639
Example: $427 \times .01639 = 6.997$ liters

Converting Cubic Centimeters (cc's) To Cubic Inches

Multiply the cubic centimeters by .06102
Example: $1500\text{cc} \times .06102 = 91.53$ cubic inches

FUEL FLOW

Converting Cubic Centimeters Per Minute To Pounds Per Hour

Divide the cc/min. by 10.5
Example: $400 \div 10.5 = 38$ lbs. per hour

Converting Pound Per Hour Into Gallons Per Hour

Divide the lbs./hr. by 6
Example: $300\text{lbs./hr} \div 6 = 50$ GPH

Converting Cubic Centimeters Per Minute To Gallons Per Hour

Multiply the cc/min. by .015873
Example: $400 \times .015873 = 11.17$ GPH

AIR FLOW

CFM- Carburetor Air Flow Requirement (4 Stroke Engine)

Multiply CID x RPM x VE and Divide by 3456
CID is displacement. RPM is engine speed, VE is volumetric efficiency (1)
Example: $427 \times 6000 \times 1 \div 3456 = 741$ CFM
(note: racing engines use VE of 1, street engines use a VE of .85)

METRIC CONVERSION CHART

QUANTITY	METRIC UNIT	SYMBOL	APPROXIMATE CONVERSION FACTOR(S)	
Length	millimeter	mm	1mm = 0.039	1 in = 25.4mm
	kilometer	km	1 km = 0.62 mile	1 mile = 1.61 km
Mass	gram	g	1 g = 0.035 oz.	1 oz = 28.4 g
	kilogram	kg	1 kg = 2.2 lb	1 lb = 0.45 kg
Area	square millimeter	mm ²	1 mm ² = 0.002 in ²	1 in = 645 mm ²
	square centimeter	cm ²	1 cm ² = 0.15 in ²	1 in = 6.45 cm ²
Volume	cubic centimeter	cm ³	1 cm ³ = 0.06 in ³	1 in = 16.4 cm ³
Volume (Liquids)	Liter	L	1 L = 0.22 gal.	1 gal = 4.55 L
	cubic inch	in ³	1 in ³ = .01639 liter	1 liter = 61.2545 in ³
Flow	liter/sec	l/s	1 l/s = 0.22 gal/sec	1 gal = 4.55 l/s
Force	Newton meter	Nm	1 Nm = 8.85 lb in	1 lb in = 0.11 Nm
			1 Nm = 0.74 lb ft	1 lb ft = 1.36 Nm
Pressure	kilopascal	kPa	1 kPa = 0.15 lb/in	1 lb/in = 6.89 kPa
Vacuum	kilopascal	kPa	1 kPa = 0.30 in Hg	1 in/Hg = 3.39 kPa
Spring Rate	newton/millimeter	N/mm	1 N/mm = 5.7 lb in	1 lb in = 0.10 N/mm
Temperature	°C (Celsius)	°C	°C - 5/9 (°F - 32)	°F = 9/5 °C + 32

MANLEY

HAS YOU COVERED FROM 2 TO 10 CYLINDERS....



VALVES

SPRING/RETAINER KITS

VALVE LOCKS

PISTONS

CONNECTING RODS

CRANKSHAFTS

ACURA - AUDI - BMW - DODGE - FORD - HONDA

LAMBORGHINI - MAZDA - MITSUBISHI

NISSAN - SUBARU - TOYOTA - VW

VALVES

VALVE GUIDES

VITON SEALS

VALVE LOCKS

TOP COLLARS

LOWER COLLARS

VALVE SPRINGS

VALVE TRAIN

COMPONENT KITS

SPORTSTER - PAN HEAD - SHOVEL HEAD

EVO - TWIN CAM - BUELL XB9



Visit www.manleyperformance.com for more info

Decimal Conversion Chart

$\frac{1}{64}$ _____ .0156	$\frac{23}{64}$ _____ .3593	$\frac{45}{64}$ _____ .7031
$\frac{1}{32}$ _____ .0312	$\frac{25}{64}$ _____ .3906	$\frac{47}{64}$ _____ .7343
$\frac{3}{64}$ _____ .0468	$\frac{13}{32}$ _____ .4062	$\frac{49}{64}$ _____ .7656
$\frac{1}{16}$ _____ .0625	$\frac{7}{16}$ _____ .4375	$\frac{51}{64}$ _____ .7968
$\frac{5}{64}$ _____ .0781	$\frac{15}{32}$ _____ .4687	$\frac{53}{64}$ _____ .8281
$\frac{3}{32}$ _____ .0937	$\frac{1}{2}$ _____ .500	$\frac{55}{64}$ _____ .8593
$\frac{7}{64}$ _____ .1093	$\frac{17}{32}$ _____ .5312	$\frac{57}{64}$ _____ .8906
$\frac{1}{8}$ _____ .125	$\frac{9}{16}$ _____ .5625	$\frac{59}{64}$ _____ .9218
$\frac{9}{64}$ _____ .1406	$\frac{19}{32}$ _____ .5937	$\frac{61}{64}$ _____ .9531
$\frac{5}{32}$ _____ .1562	$\frac{5}{8}$ _____ .625	$\frac{63}{64}$ _____ .9843
$\frac{11}{64}$ _____ .1718	$\frac{41}{64}$ _____ .6406	$\frac{31}{32}$ _____ .9687
$\frac{3}{16}$ _____ .1875	$\frac{21}{32}$ _____ .6562	1 _____ 1.000
$\frac{13}{64}$ _____ .2031	$\frac{43}{64}$ _____ .6718	
$\frac{7}{32}$ _____ .2187	$\frac{11}{16}$ _____ .6875	
$\frac{15}{64}$ _____ .2343		
$\frac{1}{4}$ _____ .250		
$\frac{17}{64}$ _____ .2656		
$\frac{9}{32}$ _____ .2812		
$\frac{19}{64}$ _____ .2968		
$\frac{5}{16}$ _____ .3125		
$\frac{21}{64}$ _____ .3281		
$\frac{11}{32}$ _____ .3437		

Metric Conversion Chart

0.1mm = 0.00394"	1mm = 0.03937"	30mm = 1.18110"
0.2mm = 0.00787"	2mm = 0.07874"	40mm = 1.57480"
0.3mm = 0.01181"	3mm = 0.11811"	50mm = 1.96850"
0.4mm = 0.01575"	4mm = 0.15748"	60mm = 2.36220"
0.5mm = 0.01969"	5mm = 0.19685"	70mm = 2.75590"
0.6mm = 0.02362"	6mm = 0.23622"	80mm = 3.14960"
0.7mm = 0.02756"	7mm = 0.27559"	90mm = 3.54330"
0.8mm = 0.03150"	8mm = 0.31496"	100mm = 3.93700"
0.9mm = 0.03543"	9mm = 0.35433"	
	10mm = 0.39370"	
	20mm = 0.78740"	

DISTRIBUTED BY:

MANLEY

1960 Swarthmore Avenue
Lakewood, NJ 08701
732.905.3366 Orders & Tech
732.905.3010 Fax
www.manleyperformance.com

designed by:
VISUAL EXPRESSIONS
graphic design and illustration
visualexpressions@yahoo.com