

# STAINLESS VALVES

## A **MANLEY** VALVE FOR EVERY APPLICATION CHOOSE FROM ONE OF FIVE SERIES OF STAINLESS VALVES

### **BUDGET SERIES: REPLACEMENT VALVES**

- ✓ Stainless Steel ( XH-422 Exhaust and NK-840 Intake )
- ✓ Chrome Stems and Hard Tips
- ✓ Material and Heat Treatment Superior to Stock
- ✓ Original Shapes with Forged and Machined Finishes



### **BUDGET SERIES: PERFORMANCE VALVES**

- ✓ 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 ) of Imported Valves
- ✓ Intake Material NK-844 with 1000 Times Better Fatigue Strength than Imported Valves.

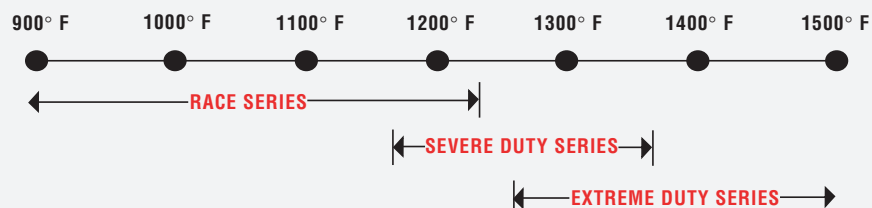


### **EXTREME DUTY SERIES**

- ✓ Top Fuel, Funny Car and Marine Engine Exhaust Valves
- ✓ More Hot Hardness and High Temperature Strength than any Competitive Offerings
- ✓ Exotic XH-430 Inconel Material
- ✓ New XH-432 XtremeAlloy



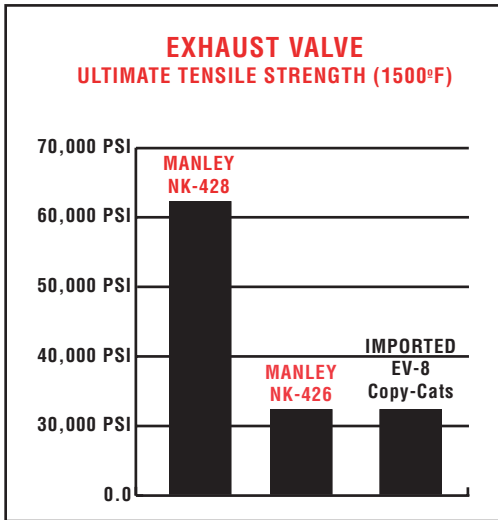
### **EXHAUST VALVE TEMPERATURE RANGE CHART**



# STAINLESS VALVES

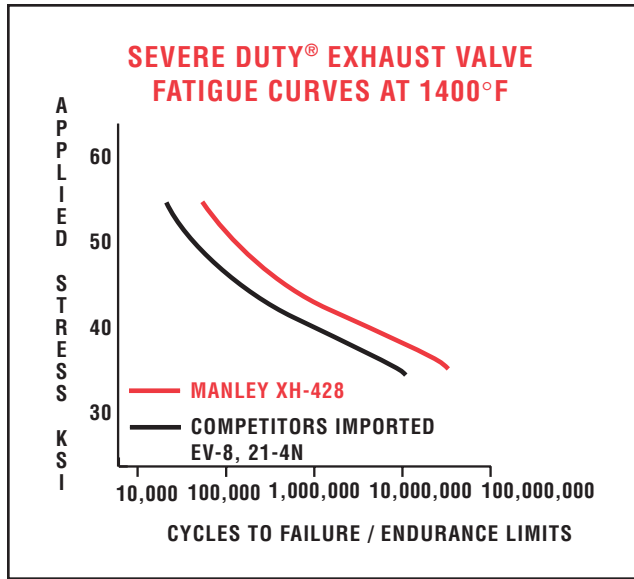
Manley Performance is universally acknowledged as the leading manufacturer of performance and racing valves in the world. No other company comes close to matching Manley's domination of the top levels of racing. And no other company offers such a broad selection of parts for competitors at all levels. For the Small Block Chevy alone, Manley offers 87 different exhaust valve part numbers and 106 intake numbers.

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.



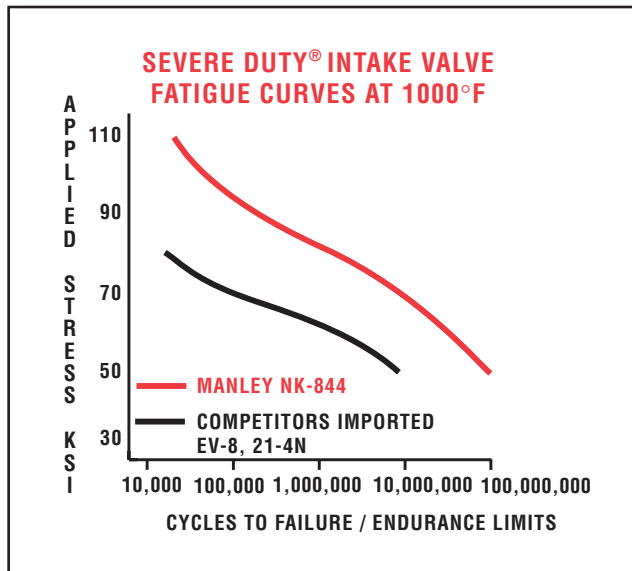
## STREET MASTER VALVES

Designed for the enthusiast preparing a stock or mildly modified street engine, or a bracket racer seeking maximum value for his dollar, the Manley Street Master valves are the perfect choice. The exhaust valves are manufactured of our XH-424 material, and the intakes of our NK-841. These dependable valves are also offered in Street Flo versions providing significant flow gains without head porting. All valves in this series feature chrome stems, hard wafer tips, swirl polished underhead areas, and fully machined combustion faces.



## RACE MASTER VALVES

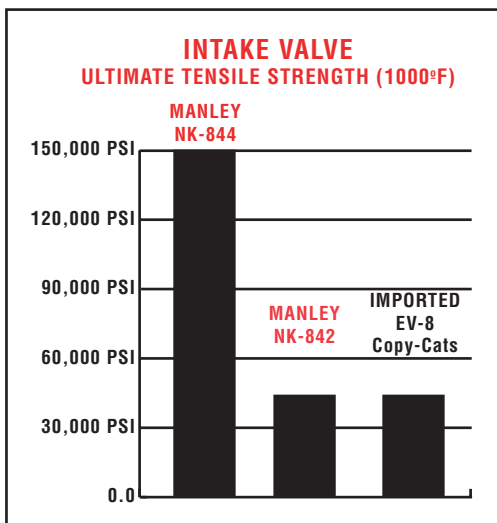
Race Master, and the Pro Flo versions identified as Race Flo valves, are manufactured of XH-426 material for the exhausts and NK-842 for the intakes. This series of valves is targeted at the bracket, drag and oval track racers operating below 8000 rpm - above which engine speed titanium is required. Any engine builder successfully using an imported copy-cat EV-8 ( 21-4N ) valve 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 of the imported copy cat valves.



# STAINLESS VALVES

## 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 and demonstrable dominance over all others. Ultimate tensile strength of XH-428 at 1500°F is nearly double the imported copy cats' EV-8. At 1000°F the Manley NK-844 displays more than four times the ultimate tensile of the competition's best intake material.

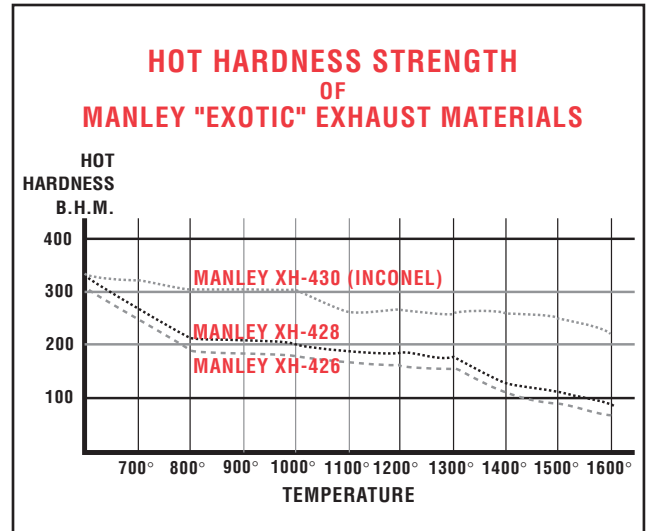


Further proof of the superiority of the Manley Severe Duty® valves is evident in our comprehensive fatigue tests. In normal operation where valve float is non-existent, a valve will experience 20,000 to 25,000 lbs of applied stress. However, when valves bounce on the seat the stress immediately soars 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.

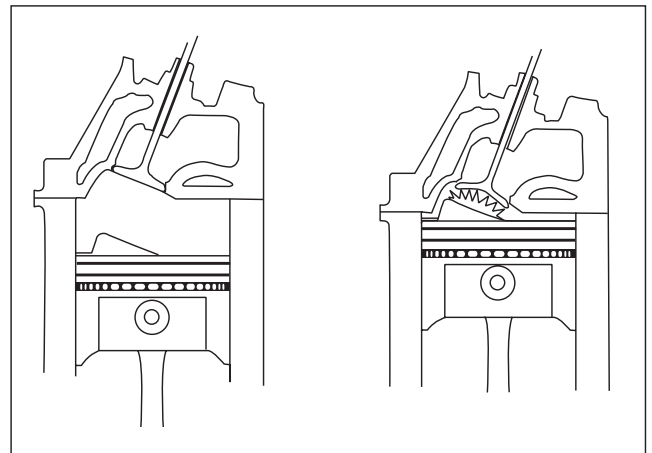
## EXTREME DUTY VALVES

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 Inconel Extreme Duty 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

## THE "PRO FLO" SHAPE A MANLEY ORIGINAL

- ✓ Up to 40% flow increase
- ✓ 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 VALVE BUYERS GUIDE

Valve Type	Replacement and Mild Street Performance	Engine Builders Using EV-8 High Performance Street Bracket Racers Oval Track Sportsman Racers	Normally Aspirated Alcohol Burning Engines	Drag Racing Over 8000 RPM	Offshore Powerboat and Hi Performance Marine
<b>Budget Series</b>	Acceptable				
<b>Street Series</b>	Preferred				
<b>Race Series</b>	Extra Insurance	Acceptable	Preferred		
<b>Severe Duty®</b>		Preferred	Preferred Intake When Titanium is Not Allowed		Required Intake
<b>Extreme Duty</b>		Preferred with Restricted Carburetor		Top Fuel Funny Car Exhaust Only	Required Exhaust

# STAINLESS VALVES

## 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

## LS-1 SMALL BLOCK CHEVY

### RACE MASTER VALVES

- ✓ XH-426 Stainless Exhaust Material
- ✓ NK-842 Stainless Intake Material
- ✓ 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 Diameter	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	89
11363-8	Exh.	1.575	.3136	Stock	4.923	.175	25° x 7/16"	.065	.115	18° Dish	90
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: 10° x 5/16"	.050	.095	6° Dish	101
11362-8	Int.	2.020	.3133	Stock	4.874	.175	Pro Flo: 10° x 5/16"	.050	.095	6° Dish	103
11390-8	Int.	2.055	.3133	Stock	4.874	.175	Pro Flo: 10° x 5/16"	.050	.095	6° Dish	104
11398-8	Int.	2.080	.3133	Stock	4.874	.175	Pro Flo: 10° x 5/16"	.050	.095	6° Dish	105

**Al Corda**  
Former NHRA Stock Champion  
LS-1 Firebird

# STAINLESS VALVES

## 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	Stock	.100	.150	Dimple	106
10649-8	Exh.	1.600	.3415	Stock	4.910	.290	Stock	.070	.150	Dimple	105
10476-8	Int.	1.940	.3415	Stock	4.880	.250	Stock	.065	.125	Dimple	116
10650-8	Int.	2.020	.3415	Stock	4.880	.260	Stock	.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
10553-8	Exh.	1.625	.3415	Stock	4.911	.250	15° x 1/2"	.060	.100	10° Dish	103
10555-8	Exh.	1.625	.3415	.100 Longer	5.011	.250	15° x 1/2"	.060	.100	10° Dish	105
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

# STAINLESS VALVES

## SMALL BLOCK CHEVROLET STREET FLO VALVES

- ✓ XH-424 Stainless Exhaust Material
- ✓ NK-841 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
10721-8	Exh.	1.500	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.060	.100	7° Dish	89
10765-8	Exh.	1.600	.3415	Stock	4.911	.250	Pro Flo: 12° x 3/8"	.060	.100	7° Dish	94
10722-8	Int.	1.940	.3415	Stock	4.911	.250	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	107
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: 10° x 3/8"	.050	.080	6° Dish	109

The 10764 will work on the new Chevy Vortec Bowtie cylinder head casting number 25534351C and 25534371C.  
See page 3 for a description of our valve materials.

## SMALL BLOCK CHEVROLET STREET MASTER VALVES

- ✓ XH-424 Stainless Exhaust Material
- ✓ NK-841 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
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 number 25534351C and 25534371C.  
See page 3 for a description of our valve materials.

# STAINLESS 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
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
11522-8	Int.	1.940	.3415	Stock	4.911	.250	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	107
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
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: 10° x 3/8"	.065	.080	5° Dish	116
11552-8	Int.	2.055	.3415	.200 Longer	5.140	.290	Pro Flo: 10° x 3/8"	.065	.080	5° Dish	117
11556-8	Int.	2.055	.3415	.300 Longer	5.240	.290	Pro Flo: 10° x 3/8"	.065	.080	5° Dish	118
11558-8	Int.	2.080	.3415	Stock	4.940	.290	Pro Flo: 10° x 3/8"	.065	.080	5° Dish	114
11560-8	Int.	2.080	.3415	.100 Longer	5.040	.290	Pro Flo: 10° x 3/8"	.065	.080	5° Dish	115
11564-8	Int.	2.080	.3415	.200 Longer	5.140	.290	Pro Flo: 10° x 3/8"	.065	.080	5° Dish	116
11574-8	Int.	2.080	.3415	.300 Longer	5.240	.290	Pro Flo: 10° x 3/8"	.065	.080	5° Dish	117
11576-8	Int.	2.100	.3415	.100 Longer	5.040	.290	Pro Flo: 10° x 3/8"	.065	.080	5° Dish	116
11584-8	Int.	2.100	.3415	.200 Longer	5.140	.290	Pro Flo: 10° x 3/8"	.065	.080	5° Dish	117
11594-8	Int.	2.100	.3415	.300 Longer	5.240	.290	Pro Flo: 10° x 3/8"	.065	.080	5° Dish	118
11774-8	Int.	2.125	.3415	.100 Longer	5.040	.290	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	118
11776-8	Int.	2.125	.3415	.200 Longer	5.140	.290	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	119
11778-8	Int.	2.125	.3415	.300 Longer	5.240	.290	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	120

Exhaust valves 11545, 11555, 11559, 11797, 11799 and intake valves 11564, 11574, 11576, 11584, 11594, 11774, 11776 and 11778 have a Pro Flo start 1.600" up from the head. All others have a Pro Flo start 1.400" from the head.

See page 3 for a description of our valve materials.

*Need a different length? Head diameter not listed?*

*See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS VALVES

## 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
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	4.951	.290	15° x 1/2"	.060	.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	6° Dish	109
11864-8	Int.	2.020	.3415	Stock	4.951	.290	10° x 3/8"	.050	.080	6° 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	10° x 3/8"	.065	.080	5° Dish	122
11806-8	Int.	2.055	.3415	Stock	4.940	.290	10° x 3/8"	.065	.080	5° Dish	118
11810-8	Int.	2.055	.3415	.100 Longer	5.040	.290	10° x 3/8"	.065	.080	5° Dish	120
11808-8	Int.	2.080	.3415	Stock	4.940	.290	10° x 3/8"	.065	.080	5° Dish	124
11812-8	Int.	2.080	.3415	.100 Longer	5.040	.290	10° x 3/8"	.065	.080	5° Dish	126
11320-8	Int.	2.080	.3415	.200 Longer	5.140	.290	10° x 3/8"	.065	.080	5° Dish	127
11322-8	Int.	2.080	.3415	.300 Longer	5.240	.290	10° x 3/8"	.065	.080	5° Dish	129
11324-8	Int.	2.080	.3415	.400 Longer	5.340	.290	10° x 3/8"	.065	.080	5° Dish	131
11326-8	Int.	2.080	.3415	.500 Longer	5.440	.290	10° x 3/8"	.065	.080	5° Dish	133
11328-8	Int.	2.100	.3415	.100 Longer	5.040	.290	10° x 3/8"	.065	.080	5° Dish	127
11330-8	Int.	2.100	.3415	.200 Longer	5.140	.290	10° x 3/8"	.065	.080	5° Dish	128
11332-8	Int.	2.100	.3415	.300 Longer	5.240	.290	10° x 3/8"	.065	.080	5° Dish	129
11334-8	Int.	2.100	.3415	.400 Longer	5.340	.290	10° x 3/8"	.065	.080	5° Dish	132
11336-8	Int.	2.100	.3415	.500 Longer	5.440	.290	10° x 3/8"	.065	.080	5° Dish	134
11340-8	Int.	2.125	.3415	.100 Longer	5.040	.290	10° x 3/8"	.065	.080	5° Dish	130
11342-8	Int.	2.125	.3415	.200 Longer	5.140	.290	10° x 3/8"	.065	.080	5° Dish	132
11344-8	Int.	2.125	.3415	.300 Longer	5.240	.290	10° x 3/8"	.065	.080	5° Dish	134
11346-8	Int.	2.125	.3415	.400 Longer	5.340	.290	10° x 3/8"	.065	.080	5° Dish	136
11348-8	Int.	2.125	.3415	.500 Longer	5.440	.290	10° x 3/8"	.065	.080	5° Dish	138

See page 3 for a description of our valve materials.

*Need a different length? Head diameter not listed?*

*See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS VALVES

## SMALL BLOCK CHEVROLET

### RACE MASTER VALVES 5/16" ( .311" ) STEM

- ✓ No Need for Inserted Tips or Wear Caps
- ✓ XH-426 Stainless Exhaust Material
- ✓ NK-842 Stainless Intake Material
- ✓ Chrome Stems and Hard Tips
- ✓ Swirl Polished and Fully Machined
- ✓ Thin Stem for Increased Flow and Light Weight



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
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

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

## RPMS AND THIN STEM VALVES

Use of the thin stem valves listed on pages 12 and 13 will enable an engine to achieve higher rpm levels. Strict vigilance must be maintained to keep the engine from rpm's that cause valve float. When valves float ( bounce on the seat ) the stresses rapidly increase and the fatigue life of the valves is dramatically reduced. These valves are heavier than titanium and cannot be expected to operate at comparable rpm ranges.

To help the engine avoid a valve float condition, purchase - and maintain - the best valve springs available. Use lightweight titanium retainers and titanium valve locks. Use quality pushrods. Operate the engine within sensible rpm limits.

## ROCKERS AND THIN STEM VALVES

Because of the reduced size of the valve stems of the valves listed on pages 12 and 13, it is advised to use a shaft type rocker which keeps the rocker tip basically centered on the valve. If increased tip area is needed, utilize a wear cap, but be cognizant of the fact that the cap adds to the toss weight of the valve train thus reducing the safe rpm potential of the engine.

*Need a different length? Head diameter not listed?  
 See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS VALVES

## SMALL BLOCK CHEVROLET

### SEVERE DUTY® VALVES 5/16" ( .311" ) STEM

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



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
<b>11231-8</b>	Exh.	1.600	.3110	.100 Longer	5.040	.290	15° x 1/2"	.080	.100	9° Dish	94
<b>11230-8</b>	Int.	1.940	.3110	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	105
<b>11232-8</b>	Int.	2.020	.3110	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	108
<b>11234-8</b>	Int.	2.055	.3110	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	110

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

See page 12 for information about rpm limitations and rocker arms.

## SMALL BLOCK CHEVROLET

### SEVERE DUTY® VALVES 7 mm ( .274" ) STEM

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



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
<b>11235-8</b>	Exh.	1.600	.2740	.100 Longer	5.040	.290	15° x 1/2"	.080	.100	9° Dish	84
<b>11236-8</b>	Int.	1.940	.2740	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	95
<b>11238-8</b>	Int.	2.020	.2740	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	98
<b>11240-8</b>	Int.	2.055	.2740	.100 Longer	5.010	.290	10° x 3/8"	.050	.080	5° Dish	100

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

See page 12 for information about rpm limitations and rocker arms.

*Need a different length? Head diameter not listed?*

*See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS 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	.100	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	.100	Flat Face	100
11539-8	Exh.	1.600	.3415	.100 Longer	5.036	.250	10° x 3/8"	.085	.100	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

See page 3 for a description of our valve materials.

*Need a different length? Head diameter not listed?*

*See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS VALVES

## SMALL BLOCK CHEVROLET SEVERE DUTY® INTAKE VALVES

- ✓ NK-844 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
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
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	10° x 3/8"	.050	.080	5° Dish	113
11828-8	Int.	2.055	.3415	Stock	4.926	.250	10° x 3/8"	.065	.080	Flat Face	128
11846-8	Int.	2.055	.3415	.100 Longer	5.026	.250	10° x 3/8"	.065	.080	5° Dish	125
11818-8	Int.	2.080	.3415	Stock	4.926	.250	10° x 3/8"	.065	.080	Flat Face	131
11844-8	Int.	2.080	.3415	.100 Longer	5.026	.250	10° x 3/8"	.065	.080	5° Dish	126
11858-8	Int.	2.080	.3415	.200 Longer	5.140	.290	10° x 3/8"	.065	.080	5° Dish	129
11762-8	Int.	2.080	.3415	.300 Longer	5.240	.290	10° x 3/8"	.065	.080	5° Dish	131
11764-8	Int.	2.080	.3415	.400 Longer	5.340	.290	10° x 3/8"	.065	.080	5° Dish	132
11512-8	Int.	2.080	.3415	.500 Longer	5.440	.290	10° x 3/8"	.065	.080	5° Dish	134
11852-8	Int.	2.100	.3415	.100 Longer	5.026	.250	10° x 3/8"	.065	.080	5° Dish	128
11862-8	Int.	2.100	.3415	.200 Longer	5.140	.290	10° x 3/8"	.065	.080	5° Dish	131
11750-8	Int.	2.100	.3415	.300 Longer	5.240	.290	10° x 3/8"	.065	.080	5° Dish	132
11752-8	Int.	2.100	.3415	.400 Longer	5.340	.290	10° x 3/8"	.065	.080	5° Dish	133
11510-8	Int.	2.100	.3415	.500 Longer	5.440	.290	10° x 3/8"	.065	.080	5° Dish	135
11770-8	Int.	2.100	.3415	.600 Longer	5.540	.290	10° x 3/8"	.065	.080	5° Dish	137
11848-8	Int.	2.125	.3415	.100 Longer	5.026	.250	10° x 3/8"	.065	.080	5° Dish	131
11866-8	Int.	2.125	.3415	.200 Longer	5.125	.250	10° x 3/8"	.065	.080	5° Dish	132
11754-8	Int.	2.125	.3415	.300 Longer	5.240	.290	10° x 3/8"	.065	.080	5° Dish	133
11756-8	Int.	2.125	.3415	.400 Longer	5.340	.290	10° x 3/8"	.065	.080	5° Dish	134
11508-8	Int.	2.125	.3415	.500 Longer	5.440	.290	10° x 3/8"	.065	.080	5° Dish	135
11768-8	Int.	2.125	.3415	.600 Longer	5.540	.290	10° x 3/8"	.065	.080	5° Dish	137
11758-8	Int.	2.150	.3415	.400 Longer	5.340	.290	10° x 3/8"	.065	.080	5° Dish	133
11760-8	Int.	2.150	.3415	.500 Longer	5.440	.290	10° x 3/8"	.065	.080	5° Dish	135
11766-8	Int.	2.150	.3415	.600 Longer	5.540	.290	10° x 3/8"	.065	.080	5° Dish	137

See page 3 for a description of our valve materials.

*Need a different length? Head diameter not listed?*

*See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS VALVES

## 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	.100	7° Dish	98
11823-8	Exh.	1.600	.3415	.100 Longer	5.036	.250	Pro Flo: 12° x 3/8"	.085	.100	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

All valves have a Pro Flo start of 1.600" from head, except P/Ns 11823, 11824, 11827, and 11882 which have a Pro Flo start of 1.400" from head.

## SMALL BLOCK CHEVROLET

### SEVERE DUTY® VALVES LEGAL NHRA 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	5.000	.250	10° x 3/8"	.050	.080	5° Dish	99
11542-8	Int.	1.840	.3415	.100 Longer	5.000	.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

# STAINLESS VALVES

## SMALL BLOCK CHEVROLET

### EXTREME DUTY XTREMEALLOY 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
11789-8	Exh.	1.600	.3415	.050 Longer	4.971	.250	10° x 3/8"	.070	.100	5° Dish	103
11589-8	Exh.	1.600	.3415	.050 Longer	4.971	.250	10° x 3/8"	.070	.100	Flat Face	105
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

See page 3 for a description of our valve materials.

## 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

*Need a different length? Head diameter not listed?*

See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.

# STAINLESS VALVES

## BIG BLOCK CHEVROLET

### STREET FLO VALVES STOCK 3/8" STEM DIAMETERS

- ✓ XH-424 Stainless Exhaust Material
- ✓ NK-841 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
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 DIAMETER

- ✓ XH-426 Stainless Exhaust Material
- ✓ NK-842 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
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

# STAINLESS VALVES

## BIG BLOCK CHEVROLET

### RACE MASTER VALVES STOCK 3/8" STEM DIAMETER

- ✓ 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
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

### RACE MASTER VALVES 11/32" STEM DIAMETER

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



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	123
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	139
11894-8	Int.	2.190	.3415	.100 Longer	5.344	.250	10° x 3/8"	.050	.080	5° Dish	140
11874-8	Int.	2.250	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	140
11814-8	Int.	2.250	.3415	.100 Longer	5.344	.250	10° x 3/8"	.050	.080	5° Dish	142
11868-8	Int.	2.250	.3415	.250 Longer	5.494	.250	10° x 3/8"	.050	.080	5° Dish	145
11730-8	Int.	2.300	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	143
11816-8	Int.	2.300	.3415	.100 Longer	5.344	.250	10° x 3/8"	.050	.080	5° Dish	146
11870-8	Int.	2.300	.3415	.250 Longer	5.494	.250	10° x 3/8"	.050	.080	5° Dish	147

# STAINLESS VALVES

## 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



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	5.474	.220	12° x 3/8"	.065	.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	5.474	.220	12° x 3/8"	.085	.100	7° Dish	138
11593-8	Exh.	1.900	.3715	Stock	5.374	.220	12° x 3/8"	.085	.100	7° Dish	139
11535-8	Exh.	1.900	.3715	.100 Longer	5.474	.220	12° x 3/8"	.085	.100	7° Dish	138
11561-8	Exh.	1.940	.3715	Stock	5.374	.220	12° x 3/8"	.085	.100	7° Dish	139
11533-8	Exh.	1.940	.3715	.100 Longer	5.474	.220	12° x 3/8"	.085	.100	7° Dish	143
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
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	148
11524-8	Int.	2.250	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	162
11534-8	Int.	2.250	.3720	.200 Longer	5.433	.220	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	164
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

See page 3 for a description of our valve materials.

## 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



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
11832-8	Int.	2.190	.3720	Stock	5.218	.220	Pro Flo: 10° x 3/8"	.050	.080	5° Dish	138

See page 3 for a description of our valve materials.

# STAINLESS VALVES

## BIG BLOCK CHEVROLET

### SEVERE DUTY® VALVES 11/32" STEM DIAMETERS

- ✓ 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
11843-8	Exh.	1.880	.3415	Stock	5.422	.250	10° x 3/8"	.075	.100	6° Dish	122
11815-8	Exh.	1.880	.3415	.100 Longer	5.522	.250	10° x 3/8"	.075	.100	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	10° x 3/8"	.075	.100	6° Dish	122
11811-8	Exh.	1.900	.3415	.100 Longer	5.522	.250	10° x 3/8"	.075	.100	6° 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	10° x 3/8"	.075	.100	6° Dish	123
11809-8	Exh.	1.940	.3415	.100 Longer	5.522	.250	10° x 3/8"	.075	.100	6° 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	5.595	.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	.080	7° Dish	139
11850-8	Int.	2.250	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	142
11856-8	Int.	2.250	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.080	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	.080	7° Dish	143
11842-8	Int.	2.300	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	146
11784-8	Int.	2.300	.3415	.200 Longer	5.444	.250	12° x 3/8"	.050	.080	7° Dish	147
11854-8	Int.	2.300	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.080	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	.080	7° Dish	150
11880-8	Int.	2.350	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100	7° Dish	150

## DART BIG BLOCK PRO 1® and 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	.100	6° Dish	122
11817-8	Exh.	1.900	.3415	Stock	5.422	.250	10° x 3/8"	.075	.100	6° Dish	122
11856-8	Int.	2.250	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.080	7° Dish	145
11854-8	Int.	2.300	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.080	7° Dish	147

# STAINLESS VALVES

## BIG BLOCK CHEVROLET

**BRODIX BB-4/ SAR  
EDELBROCK VICTOR  
CHEVROLET #12363425 HEADS  
SEVERE DUTY® VALVES W/ 11/32" STEMS**

- ✓ XH-428 Stainless Exhaust Material
- ✓ NK-844 Stainless Intake Material
- ✓ Swirl Polished and Fully Machined
- ✓ 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
11845-8	Exh.	1.880	.3415	.100 Longer	5.522	.250	25° x 3/8"	.075	.100	20° Dish	130
11847-8	Exh.	1.900	.3415	.100 Longer	5.522	.250	25° x 3/8"	.075	.100	20° Dish	132
11896-8	Int.	2.190	.3415	.350 Longer	5.595	.250	12° x 3/8"	.065	.100	7° Dish	146
11898-8	Int.	2.250	.3415	.350 Longer	5.605	.250	12° x 3/8"	.065	.100	7° Dish	148
11878-8	Int.	2.300	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100	7° Dish	148
11880-8	Int.	2.350	.3415	.350 Longer	5.610	.250	12° x 3/8"	.065	.100	7° Dish	150

## BIG BLOCK CHEVROLET

**PONTIAC "PRO STOCK"  
DART "BIG CHIEF"  
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
11505-8	Exh.	1.900	.3415	*Special	6.310	.250	25° x 3/8"	.085	.100	20° Dish	145
11581-8	Exh.	1.900	.3415	Stock	6.380	.250	25° x 3/8"	.085	.100	20° Dish	150
11583-8	Exh.	1.940	.3415	Stock	6.400	.250	25° x 3/8"	.085	.100	20° Dish	152
11506-8	Int.	2.325	.3415	*Special	6.400	.250	10° x 3/8"	.065	.075	5° Dish	155
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

\* Short installed height for marine applications

*Need a different length? Head diameter not listed?  
See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS VALVES

## BIG BLOCK CHEVROLET

**EXTREME DUTY and MARINE VALVES**  
**STOCK 3/8" STEM DIAMETERS**

- ✓ XH-432 XtremeAlloy Exhaust Material
- ✓ NK-844 Intake Material
- ✓ Swirl Polished and Fully Machined
- ✓ 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
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
11520-8	Int.	2.190	.3720	Stock	5.218	.220	10° x 3/8"	.050	.080	7° Dish	145
11562-8	Int.	2.250	.3720	Stock	5.218	.220	10° x 3/8"	.050	.080	7° Dish	148
11524-8	Int.	2.250	.3720	.100 Longer	5.325	.220	Pro Flo: 12° x 7/16"	.065	.080	5° Dish	162

## BIG BLOCK CHEVROLET

**EXTREME DUTY and MARINE VALVES**  
**11/32" STEM DIAMETERS**

- ✓ XH-432 XtremeAlloy Exhaust Material
- ✓ Reduced Stem Diameter
- ✓ Chrome Stems and Hard Tips
- ✓ Greater Flow and Less Weight
- ✓ 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
11743-8	Exh.	1.880	.3415	Stock	5.422	.250	15° x 1/2"	.075	.085	9° Dish	131
11737-8	Exh.	1.880	.3415	.100 Longer	5.522	.250	15° x 1/2"	.075	.085	9° Dish	135
11745-8	Exh.	1.900	.3415	Stock	5.422	.250	15° x 1/2"	.075	.085	9° Dish	132
11739-8	Exh.	1.900	.3415	.100 Longer	5.522	.250	15° x 1/2"	.075	.085	9° Dish	136
11773-8	Exh.	1.940	.3415	Stock	5.422	.250	15° x 1/2"	.075	.085	9° Dish	133
11741-8	Exh.	1.940	.3415	.100 Longer	5.522	.250	15° x 1/2"	.075	.085	9° Dish	138
11800-8	Int.	2.190	.3415	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	139
11802-8	Int.	2.250	.3415	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	140
11850-8	Int.	2.250	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	142
11856-8	Int.	2.250	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.080	7° Dish	145
11780-8	Int.	2.300	.3415	Stock	5.244	.250	10° x 3/8"	.050	.080	5° Dish	143
11842-8	Int.	2.300	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	146
11854-8	Int.	2.300	.3415	.250 Longer	5.494	.250	12° x 3/8"	.050	.080	7° Dish	147

# STAINLESS VALVES

## CHRYSLER 340 - 360

### RACE SERIES VALVES and 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
<b>W-2 LATE MODEL STOCK P/N P5249769 CYLINDER HEAD</b>											
11703-8	Exh.	1.600	.3415	-----	5.255	.290	Pro Flo: 22° x 1/2"	.095	.080	17° Dish	111
11702-8	Int.	2.020	.3415	-----	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.											
<b>W-2 CYLINDER HEAD SEVERE DUTY® "PRO FLO" VALVES</b>											
11549-8	Exh.	1.600	.3715	.150 Longer	5.075	.220	Pro Flo: 12° x 3/8"	.085	.100	7° Dish	107
11550-8	Int.	2.020	.3725	.150 Longer	5.050	.220	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	123
<b>STOCK CYLINDER HEAD RACE MASTER VALVES</b>											
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



**Bucky Hess**

2001 U.S. National Mopar Hemi Challenge Winner

# STAINLESS VALVES

## CHRYSLER 361 - 383 426 WEDGE - 440

### RACE FLO and RACE MASTER VALVES

- ✓ XH-426 Stainless Exhaust Material
- ✓ NK-842 Stainless Intake Material
- ✓ Swirl Polished
- ✓ Fully Machined
- ✓ Chrome Stems
- ✓ Hard Tips
- ✓ 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
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	.3725	Stock	4.873	.275	Pro Flo: 10° x 3/8"	.050	.100	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	.3725	Stock	4.873	.275	Pro Flo: 10° x 3/8"	.050	.100	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

## CHRYSLER 361 - 383 426 WEDGE - 440

### SEVERE DUTY® "PRO FLO" VALVES

- ✓ XH-426 Stainless Exhaust Material
- ✓ NK-842 Stainless Intake Material
- ✓ Swirl Polished
- ✓ Fully Machined
- ✓ Chrome Stems
- ✓ Hard Tips
- ✓ 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
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	.3725	Stock	4.873	.275	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	122
11834-8	Int.	2.140	.3725	Stock	4.873	.275	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	126

See page 3 for a description of our valve materials.

# STAINLESS VALVES

## CHRYSLER 440-1 "INDY CYLINDER HEADS" RACE MASTER VALVES

- ✓ XH-426 Stainless Exhaust Material
- ✓ NK-842 Stainless Intake Material
- ✓ 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
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

See page 3 for a description of our valve materials.

## CHRYSLER 440-1 "INDY CYLINDER HEADS" SEVERE DUTY® VALVES

- ✓ XH-428 Stainless Exhaust Material
- ✓ NK-844 Stainless Intake Material
- ✓ 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
11813-8	Exh.	1.810	.3415	Stock	5.369	.250	10° x 3/8"	.075	.100	5° 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	.080	7° Dish	142

See page 3 for a description of our valve materials.

*Need a different length? Head diameter not listed?  
 See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS VALVES

## CHRYSLER HEMI

### RACE MASTER and SEVERE DUTY® VALVES

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



"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
<b>RACE MASTER VALVES</b>											
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
<b>SEVERE DUTY VALVES</b>											
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
<b>RACE MASTER VALVES</b>											
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

## TOP FUEL and FUNNY CAR

### EXTREME DUTY XTREMEALLOY EXHAUST VALVES

- ✓ XH-432 XtremeAlloy Material
- ✓ Chrome Stems and Swirl Polished

Due to the geometry of the fuel cylinder heads, wear caps are recommended even though the Manley valves have 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
11821-8	Exh.	1.900	.3715	.100 Longer	5.020	.250	22° x 1/2"	.080	.100	15° Dish	146
11837-8	Exh.	1.950	.3715	.100 Longer	5.020	.250	22° x 1/2"	.100	.100	15° Dish	166
11837B-8*	Exh.	1.950	.3715	.100 Longer	5.020	.250	22° x 1/2"	.100	.100	15° Dish	166
11729-8	Exh.	1.950	.3715	.200 Longer	5.120	.250	22° x 1/2"	.100	.100	15° Dish	169
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"	.090	.110	15° Dish	169

Seat angle of 11729, 11729B, 11821, 11837, 11837B, and 11895 is 55°.

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

Please specify the overall length and groove location you require. There is no charge for these machining operations. Valves 11729B and 11837B have a Bead Loc® keeper groove. Bead Loc® valve locks are required.

# STAINLESS VALVES

## FORD PINTO 2000 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
11819-4	Exh.	1.500	.3150	Stock or .100	4.400	.135	10° x 3/8"	.055	.100	6° Dish	74
11820-4	Int.	1.750	.3160	Stock or .100	4.400	.135	10° x 3/8"	.050	.080	6° Dish	86

Ford Pinto valves have four grooves for keepers. The lower three give stock installed height; the upper three give .100" longer than stock installed height.

## FORD 2300 "ESSLINGER" 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
<b>SEMI-FINISHED VALVES FOR "ESSLINGER" HEADS</b>											
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
<b>FINISHED VALVES FOR "ESSLINGER" FLAT TAPPET APPLICATIONS</b>											
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
<b>FINISHED VALVES FOR "ESSLINGER" ROLLER TAPPET APPLICATIONS</b>											
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.

# STAINLESS VALVES

## FORD 4.6L & 5.4L DOHC ( 4 VALVE ) RACE MASTER VALVES

- ✓ XH-426 Stainless Exhaust Material
- ✓ NK-842 Stainless Intake Material
- ✓ Chrome Stems and Hard Tips
- ✓ Swirl Polished and Fully Machined
- ✓ Stock Radius Triple Keeper Grooves



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
<b>11615-8</b>	Exh.	30 mm	.2740	Stock	116.5 mm	10.80 mm	15° x 1/2"	.050	.080	9° Dish	58
<b>11617-8</b>	Exh.	31 mm	.2740	Stock	116.5 mm	10.80 mm	15° x 1/2"	.050	.080	9° Dish	59
<b>11616-8</b>	Int.	37 mm	.2750	Stock	135.6 mm	15.75 mm	10° x 3/8"	.045	.080	5° Dish	76
<b>11618-8</b>	Int.	38 mm	.2750	Stock	135.6 mm	15.75 mm	10° x 3/8"	.045	.080	5° Dish	77

Stock exhaust stems are .2740"; stock intakes are .2750".

## FORD 4.6L & 5.4L SOHC ( 2 VALVE ) RACE MASTER VALVES

- ✓ XH-426 Stainless Exhaust Material
- ✓ NK-842 Stainless Intake Material
- ✓ Chrome Stems and Hard Tips
- ✓ Swirl Polished and Fully Machined
- ✓ Stock Radius Triple 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
<b>1999 AND LATER</b>											
<b>11637-8</b>	Exh.	36.0 mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	67
<b>11639-8</b>	Exh.	37.0 mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	69
<b>11636-8</b>	Int.	44.5 mm	.2750	Stock	4.705	.470	10° x 3/8"	.050	.080	5° Dish	77
<b>11640-8</b>	Int.	45.5 mm	.2750	Stock	4.705	.470	10° x 3/8"	.050	.080	5° Dish	79
<b>1996 - 1998</b>											
<b>11635-8</b>	Exh.	34.0 mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	65
<b>11637-8*</b>	Exh.	36.0 mm	.2740	Stock	4.650	.470	15° x 1/2"	.060	.080	9° Dish	67
<b>11634-8</b>	Int.	44.5 mm	.2750	Stock	4.630	.470	10° x 3/8"	.050	.080	5° Dish	77
<b>11638-8*</b>	Int.	46.83 mm	.2750	Stock	4.630	.470	10° x 3/8"	.050	.080	5° Dish	81

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

Stock exhaust stems are .2740"; stock intakes are .2750".

# STAINLESS VALVES

## FORD 289 - 302 - 351W

### BUDGET PERFORMANCE and STREET 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
<b>VALVES FOR USE WITH NON RAIL OR ROLLER ROCKERS</b>											
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
<b>VALVES FOR USE WITH RAIL TYPE ROCKERS</b>											
10723-8	Exh.	1.465	.3415	Stock	5.080	.395	Pro Flo: 12° x 3/8"	.060	.080	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

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

## FORD 289 - 302 - 351W

### RACE FLO VALVES

- ✓ XH-426 Stainless Exhaust Material
- ✓ NK-842 Stainless Intake Material
- ✓ Improved Flow with "Pro Flow" Underhead
- ✓ 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
<b>VALVES FOR USE WITH NON RAIL OR ROLLER ROCKERS</b>											
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
<b>VALVES FOR USE WITH RAIL TYPE ROCKERS</b>											
11523-8	Exh.	1.465	.3415	Stock	5.080	.395	Pro Flo: 12° x 3/8"	.060	.080	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: 12° x 3/8"	.060	.100	5° Dish	95
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 stock rockers or roller rockers.

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

*Need a different length? Head diameter not listed?*

*See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS VALVES

## FORD 351C

### RACE MASTER VALVES and 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
<b>RACE MASTER VALVES</b>											
11873-8	Exh.	1.710	.3415	Stock	5.042	.250	10° x 3/8"	.060	.100	7° Dish	108
11872-8	Int.	2.190	.3415	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	139
11874-8	Int.	2.250	.3415	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	140
<b>SEVERE DUTY® VALVES</b>											
11807-8	Exh.	1.655	.3415	Stock	5.067	.220	12° x 3/8"	.085	.100	7° Dish	102
11853-8	Exh.	1.655	.3415	.100 Longer	5.167	.250	12° x 3/8"	.085	.100	7° Dish	105
11805-8	Exh.	1.710	.3415	Stock	5.067	.220	12° x 3/8"	.085	.100	7° Dish	108
11857-8	Exh.	1.710	.3415	.100 Longer	5.167	.250	12° x 3/8"	.085	.100	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	.080	7° Dish	139
11850-8	Int.	2.250	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	7° Dish	142

## FORD SVO "SPORTSMAN"

### N-351 CYLINDER HEAD

### RACE MASTER VALVES and 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
<b>RACE MASTER VALVES</b>											
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	10° x 3/8"	.065	.080	5° Dish	127
<b>SEVERE DUTY® VALVES</b>											
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?*

*See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS 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	113
11872-8	Int.	2.190	.3415	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	139
11874-8	Int.	2.250	.3415	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	140
<b>BLUE THUNDER HEADS</b>											
11829-8	Exh.	1.880	.3415	Stock	5.070	.250	15° x 1/2"	.090	.100	11° Dish	116
11874-8	Int.	2.250	.3415	Stock	5.244	.250	12° x 3/8"	.050	.080	7° Dish	140

## 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	138
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	.080	7° Dish	144
11850-8	Int.	2.250	.3415	.100 Longer	5.344	.250	12° x 3/8"	.050	.080	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?*

*See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS VALVES

## FORD 429 - 460

### ALUMINUM AFTERMARKET HEADS 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
11591-8	Exh.	1.880	.3420	Stock	5.655	.260	22° x 13/32"	.075	.100	17° Dish	129
11586-8	Int.	2.250	.3420	Stock	5.725	.260	10° x 13/32"	.065	.075	5° Dish	153
11588-8	Int.	2.300	.3420	Stock	5.725	.260	10° x 13/32"	.065	.075	5° Dish	166
11590-8	Int.	2.400	.3420	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.

# STAINLESS VALVES

## HONDA / ACURA RACE MASTER VALVES

Part No.	Type	Head Diameter	Stem Diameter	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head
<b>ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE ( B17A1 ) - 1992 - 1993</b>									
<b>ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE ( B18C1-C3 ) - 1994 - 2000</b>									
<b>HONDA DEL SOL 1.6L - DOHC V-TEC 16 VALVE ( B16A1 ) - 1994 - 1997</b>									
<b>HONDA CIVIC SI 1.6L - DOHC V-TEC 16 VALVE ( B16A3 ) - 1999 - 2000</b>									
11373-8	Exh.	28.0 mm	5.5 mm / .2165"	102.70 mm	2.5 mm	25° x 11/32"	.065"	.080"	20° Dish
11691-8	Exh.	28.0 mm	5.5 mm / .2165"	102.70 mm	2.5 mm	Pro Flo: 22° x 5/16"	.065"	.080"	Flat Face
11375-8	Exh.	28.5 mm	5.5 mm / .2165"	102.70 mm	2.5 mm	25° x 11/32"	.065"	.080"	20° Dish
11693-8	Exh.	28.5 mm	5.5 mm / .2165"	102.70 mm	2.5 mm	Pro Flo: 22° x 5/16"	.065"	.080"	Flat Face
11377-8	Exh.	29.0 mm	5.5 mm / .2165"	102.70 mm	2.5 mm	25° x 11/32"	.065"	.080"	20° Dish
11372-8	Int.	33.0 mm	5.5 mm / .2165"	102.40 mm	2.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11690-8	Int.	33.0 mm	5.5 mm / .2165"	102.40 mm	2.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	Flat Face
11374-8	Int.	33.5 mm	5.5 mm / .2165"	102.40 mm	2.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11692-8	Int.	33.5 mm	5.5 mm / .2165"	102.40 mm	2.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	Flat Face
11376-8	Int.	34.0 mm	5.5 mm / .2165"	102.40 mm	2.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
<b>ACURA RSX Type S 2.0L - DOHC i-VTEC 16 VALVE ( K20A2 ) - 2001 - Up</b>									
11127-8	Exh.	30.0 mm	5.5 mm / .2165"	109.04 mm	2.08 mm	25° x 11/32"	.065"	.080"	20° Dish
11129-8	Exh.	30.5 mm	5.5 mm / .2165"	109.04 mm	2.08 mm	25° x 11/32"	.065"	.080"	20° Dish
11131-8	Exh.	31.0 mm	5.5 mm / .2165"	109.04 mm	2.08 mm	25° x 11/32"	.065"	.080"	20° Dish
11128-8	Int.	35.0 mm	5.5 mm / .2165"	109.22 mm	2.08 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11130-8	Int.	35.5 mm	5.5 mm / .2165"	109.22 mm	2.08 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11132-8	Int.	36.0 mm	5.5 mm / .2165"	109.22 mm	2.08 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
<b>HONDA ACCORD 2.2L - SOHC V-TEC 16 VALVE ( F22B1 ) - 1994 - 1997</b>									
11371-8	Exh.	29 mm	5.5 mm / .2165"	114.25 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish
11379-8	Exh.	30 mm	5.5 mm / .2165"	114.25 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish
11370-8	Int.	34 mm	5.5 mm / .2165"	116.00 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11378-8	Int.	35 mm	5.5 mm / .2165"	116.00 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
<b>HONDA CIVIC 1.6L - SOHC 16 VALVE ( D16Z6-Y5-Y7-Y8 ) - 1992 - 2000</b>									
11367-8	Exh.	26 mm	5.5 mm / .2165"	115.95 mm	1.9 mm	25° x 11/32"	.065"	.080"	20° Dish
11369-8	Exh.	27 mm	5.5 mm / .2165"	115.95 mm	1.9 mm	25° x 11/32"	.065"	.080"	20° Dish
11366-8	Int.	30 mm	5.5 mm / .2165"	118.60 mm	1.9 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11368-8	Int.	31 mm	5.5 mm / .2165"	118.60 mm	1.9 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
<b>HONDA CIVIC CRX SI 1.6L - SOHC 16 VALVE ( D16A6 ) - 1988 - 1991</b>									
11383-8	Exh.	25 mm	5.5 mm / .2165"	118.75 mm	4.35 mm	Pro Flo: 22° x 5/16"	.065"	.080"	17° Dish
11385-8	Exh.	26 mm	5.5 mm / .2165"	118.75 mm	4.35 mm	Pro Flo: 22° x 5/16"	.065"	.080"	17° Dish
11384-8	Int.	29 mm	5.5 mm / .2165"	115.00 mm	4.1 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11386-8	Int.	30 mm	5.5 mm / .2165"	115.00 mm	4.1 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
<b>HONDA PRELUDE 2.2L - DOHC V-TEC 16 VALVE ( H22A1-A4 ) - 1993 - 2000</b>									
11393-8	Exh.	30.0 mm	5.5 mm / .2165"	106.90 mm	1.9 mm	25° x 11/32"	.065"	.080"	20° Dish
11339-8	Exh.	30.5 mm	5.5 mm / .2165"	106.90 mm	1.9 mm	25° x 11/32"	.065"	.080"	20° Dish
11395-8	Exh.	31.0 mm	5.5 mm / .2165"	106.90 mm	1.9 mm	25° x 11/32"	.065"	.080"	20° Dish
11394-8	Int.	35.0 mm	5.5 mm / .2165"	106.65 mm	1.9 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11338-8	Int.	35.5 mm	5.5 mm / .2165"	106.65 mm	1.9 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11396-8	Int.	36.0 mm	5.5 mm / .2165"	106.65 mm	1.9 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish

All Manley Performance aftermarket valves for the Honda / Acura engines are manufactured with a 5.5 mm stem diameter. We recommend 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. Factory size may vary slightly depending on the specific engine.

# STAINLESS VALVES

## MAZDA / NISSAN RACE MASTER VALVES

- ✓ XH-426 Stainless Exhaust Material
- ✓ NK-842 Stainless Intake Material
- ✓ Chrome Stems and Hard Tips
- ✓ Swirl Polished and Fully Machined
- ✓ Improved flow with "Pro Flo" Intakes



Part No.	Type	Head Diameter	Stem Diameter	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head
<b>MAZDA MIATA 1.8L - DOHC 16 VALVE ( BP056 ) - 1990 - 1999</b>									
11101-8	Exh.	28 mm	6 mm / .2362"	101.52 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish
11103-8	Exh.	29 mm	6 mm / .2362"	101.52 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish
11102-8	Int.	33 mm	6 mm / .2362"	101.35 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11104-8	Int.	34 mm	6 mm / .2362"	101.35 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
<b>NISSAN 300 ZX 3.0L - DOHC 24 VALVE ( VG30D - TURBO VG30D TT ) - 1990 - 1996</b>									
11105-12	Exh.	29.5 mm	6 mm / .2362"	103.65 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish
11107-12	Exh.	30.5 mm	6 mm / .2362"	103.65 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish
11106-12	Int.	34.0 mm	6 mm / .2362"	103.13 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11108-12	Int.	35.0 mm	6 mm / .2362"	103.13 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
<b>NISSAN SENTRA SE-R 2.0L - DOHC 16 VALVE ( SR20DE ) - 1991 - 1998</b>									
11109-8	Exh.	30.15 mm	6 mm / .2362"	102.40 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish
11111-8	Exh.	31.15 mm	6 mm / .2362"	102.40 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish
11110-8	Int.	34.15 mm	6 mm / .2362"	101.40 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11112-8	Int.	35.15 mm	6 mm / .2362"	101.40 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish

All Manley Performance aftermarket valves for the Mazda / Nissan engines are manufactured with a 6 mm stem diameter. We recommend 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. Factory sizes may vary depending on the specific engine.

## NISSAN 240Z - 260Z - 280Z SEVERE DUTY® VALVES

- ✓ XH-428 Stainless Exhaust Material
- ✓ NK-844 Stainless Intake Material
- ✓ Improved flow with "Pro Flo" Underheads
- ✓ Chrome Stems, 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
11689-6	Exh.	35 mm	.3125	Stock	4.620	.120	Pro Flo: 25° x 3/8"	.050	.080	8° Dish
11679-6	Exh.	38 mm	.3125	Stock	4.620	.120	Pro Flo: 25° x 3/8"	.050	.080	8° Dish
11678-6	Int.	44 mm	.3135	Stock	4.580	.110	Pro Flo: 12° x 3/8"	.045	.075	7° Dish

# STAINLESS VALVES

## 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 Headl
11547-8	Exh.	1.710	.3420	Stock	4.668	.260	10° x 3/8"	.060	.100	5° Dish
11548-8	Int.	2.072	.3420	Stock	4.713	.260	10° x 3/8"	.050	.080	5° Dish

## TOYOTA

### RACE MASTER VALVES

- ✓ XH-426 Stainless Exhaust Material
- ✓ NK-842 Stainless Intake Material
- ✓ Improved flow with "Pro Flo" Intake Underheads
- ✓ Chrome Stems, Swirl Polished and Fully Machined



Part No.	Type	Head Diameter	Stem Diameter	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	
<b>TOYOTA 4AG ( ATLANTIC )</b>										
11113-8	Exh.	27.5 mm	6 mm / .2362"	99.75 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish	
11114-8	Int.	32.0 mm	6 mm / .2362"	99.60 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
<b>TOYOTA MR2 2.0L - DOHC 16 VALVE ( TURBO 3SGTE ) - 1990 - 1995</b>										
11115-8	Exh.	29.0 mm	6 mm / .2362"	99.50 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish	
11117-8	Exh.	30.0 mm	6 mm / .2362"	99.50 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish	
11116-8	Int.	33.5 mm	6 mm / .2362"	100.55 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
11118-8	Int.	34.5 mm	6 mm / .2362"	100.55 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
<b>TOYOTA SUPRA 3.0L - DOHC 24 VALVE ( 7MGE - TURBO 7MGTE ) - 1986 - 1992</b>										
11119-12	Exh.	27.5 mm	6 mm / .2362"	98.05 mm	4.0 mm	25° x 11/32"	.065"	.080"	20° Dish	
11121-12	Exh.	28.5 mm	6 mm / .2362"	98.05 mm	4.0 mm	25° x 11/32"	.065"	.080"	20° Dish	
11120-12	Int.	32.0 mm	6 mm / .2362"	98.05 mm	4.0 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
11122-12	Int.	33.0 mm	6 mm / .2362"	98.05 mm	4.0 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
<b>TOYOTA SUPRA 3.0L I/L 6 CYL - DOHC 24 VALVE ( 2JZGE - 2JZGTE ) - 1994 - 1998</b>										
11123-12	Exh.	29.0 mm	6 mm / .2362"	99.10 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish	
11125-12	Exh.	30.0 mm	6 mm / .2362"	99.10 mm	3.5 mm	25° x 11/32"	.065"	.080"	20° Dish	
11124-12	Int.	33.6 mm	6 mm / .2362"	98.55 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
11126-12	Int.	34.6 mm	6 mm / .2362"	98.55 mm	3.5 mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	

All Manley Performance aftermarket valves for the Toyota engines are manufactured with a 6 mm stem diameter. We recommend 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. Factory sizes may vary depending on the specific motor.

# STAINLESS VALVES

## PONTIAC 400 - 428 - 455

### RACE MASTER and 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	100
11355-8	Exh.	1.770	.3415	Stock	5.100	.250	25° x 3/8"	.080	.100	20° Dish	97
11352-8	Int.	2.110	.3415	Stock	5.215	.250	Pro Flo 10° x 3/8"	.050	.100	5° Dish	117
11364-8	Int.	2.110	.3415	Stock	5.100	.250	Pro Flo 10° x 3/8"	.050	.100	5° Dish	113

Valves 11352 and 11353 fit Edelbrock 72cc cylinder heads. Both intakes have 30° seats.

## 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.	34.0 mm	.313	Stock	3.976	.130	15° x 3/8"	.075	.075	10° Dish	63
11656-4	Int.	40.5 mm	.313	Stock	3.976	.130	10° x 11/32"	.075	.075	5° Dish	76

*Need a different length? Head diameter not listed?*

*See pages 40 & 41 for Gen II blanks to construct a valve to your exact specifications.*

# STAINLESS VALVES

## VOLKSWAGEN 1200 - 1600

### 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
11649-4	Exh.	32.0 mm	.3130	Stock	4.405	.170	15° x 3/8"	.070	.090	10° Dish	65
11651-4	Exh.	33.0 mm	.3130	Stock	4.405	.170	15° x 3/8"	.070	.090	10° Dish	67
11653-4	Exh.	35.5 mm	.3130	Stock	4.405	.170	15° x 3/8"	.070	.090	10° Dish	69
11655-4	Exh.	37.5 mm	.3130	Stock	4.405	.170	15° x 3/8"	.070	.090	10° Dish	73
11650-4	Int.	40.0 mm	.3130	Stock	4.405	.170	10° x 11/32"	.070	.090	6° Dish	79
11652-4	Int.	42.0 mm	.3130	Stock	4.405	.170	10° x 11/32"	.070	.090	6° Dish	79
11654-4	Int.	43.7 mm	.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
- ✓ 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
11659-4	Exh.	38 mm	.3130	Stock	4.606	.170	15° x 1/2"	.060	.075	9° Dish	78
11658-4	Int.	48 mm	.3130	Stock	4.606	.170	10° x 3/8"	.060	.075	5° Dish	101



**Tavares & Pauter Dragster**  
Champion FF ASDA  
2003 Miles Per Hour Record Holder

# CUSTOM STAINLESS VALVES

PLEASE SEE GEN II CUSTOM VALVE SPECIFICATIONS PAGES 40 & 41

**A WEAR CAP IS NOT NECESSARY WITH GEN II\***

TIP LENGTH \_\_\_\_\_

STEM DIAM. \_\_\_\_\_

GROOVE TYPE  
 CONVENTIONAL  
 BEAD LOC®  
 OTHER : \_\_\_\_\_

1ST BACK CUT  
 WIDTH \_\_\_\_\_  
 ANGLE \_\_\_\_\_

EDGE  
 SHARP  
 BREAK \_\_\_\_\_  
 CORNER RADIUS \_\_\_\_\_

MARGIN \_\_\_\_\_

SEAT  
 WIDTH \_\_\_\_\_  
 ANGLE \_\_\_\_\_

OVERALL LENGTH \_\_\_\_\_

HEAD DIAM. \_\_\_\_\_

PLEASE FILL IN ALL DIMENSIONS AND ORDER INFO

USE BLANK P/N \_\_\_\_\_

CYLINDER HEAD \_\_\_\_\_

MANLEY PERFORMANCE PROD.  
1960 SWARTHMORE AVE.  
LAKEWOOD, NJ 08701  
PHONE: 732-905-3366  
FAX: 732-905-3010

**ORDER INFO**

ACCT. NO. \_\_\_\_\_

NAME \_\_\_\_\_

DATE \_\_\_\_\_

P.O. # \_\_\_\_\_

QTY. \_\_\_\_\_

DUE DATE \_\_\_\_\_

SHIP VIA \_\_\_\_\_

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

# CUSTOM STAINLESS VALVES

## GENERATION II XTREME & SEVERE DUTY SERIES CUSTOM STAINLESS STEEL VALVES

- ✓ 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 1.500" or 38 mm. All others .800" or 20.32 mm.



All Gen II custom stainless valve part numbers are priced to include all machining to render a finished valve.

Part No.	Type	Maximum Head Diameter	Stem Diameter	Maximum Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Material
<b>XTREMEALLOY GEN II CUSTOM EXHAUST VALVES</b>									
11225-8*	Exh.	1.625	.3415	5.600	15° x 1/2"	.080	.100	9° Dish	XtremeAlloy
11223-8*	Exh.	2.060	.3415	6.700	15° x 1/2"	.080	.100	9° Dish	XtremeAlloy
11257-8	Exh.	1.750	.3095	5.400	25° x 3/8"	.060	.100	20° Dish	XtremeAlloy
11237-8*	Exh.	35.0 mm	6.0 mm / .2362"	113.5 mm	25° x 11/32"	.065	.080	20° Dish	XtremeAlloy
11233-8*	Exh.	32.0 mm	5.5 mm / .2165"	119.0 mm	25° x 11/32"	.065	.080	20° Dish	XtremeAlloy
<b>SEVERE DUTY® GEN II CUSTOM VALVES</b>									
11251-8	Exh.	1.940	.3715	5.650	12° x 3/8"	.085	.100	7° Dish	XH-428
11252-8*	Int.	2.300	.3720	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.	1.625	.3415	5.640	15° x 1/2"	.090	.100	9° Dish	XH-428
11255-8	Exh.	1.625	.3415	5.640	30° x 1/2"	.070	.100	25° Dish	XH-428
11253-8	Exh.	1.940	.3415	5.650	12° x 3/8"	.075	.080	7° Dish	XH-428
11221-8	Exh.	2.000	.3415	6.700	25° x 3/8"	.080	.100	20° Dish	XH-428
11219-8	Exh.	2.060	.3415	6.700	15° x 1/2"	.080	.100	9° Dish	XH-428
11256-8*	Int.	2.080	.3415	5.640	10° x 3/8"	.065	.080	5° Dish	NK-844
11254-8*	Int.	2.150	.3415	5.640	10° x 3/8"	.065	.080	5° Dish	NK-844
11242-8*	Int.	2.150	.3415	5.640	Pro Flo: 12° x 3/8"	.050	.080	7° Dish	NK-844
Pro Flo start is 1.600" from the top of the head.									
11258-8*	Int.	2.425	.3415	5.700	12° x 3/8"	.065	.080	7° Dish	NK-844
11220-8*	Int.	2.425	.3415	6.800	10° x 3/8"	.050	.080	5° Dish	NK-844
11222-8*	Int.	2.425	.3415	6.700	20° x 3/8"	.050	.080	15° Dish	NK-844
11227-8	Exh.	1.625	.3110	5.600	15° x 1/2"	.080	.100	9° Dish	XH-428
11224-8*	Int.	2.200	.3110	5.600	10° x 3/8"	.050	.080	5° Dish	NK-844
11228-8*	Int.	2.425	.3110	6.800	20° x 3/8"	.050	.080	15° Dish	NK-844
11229-8	Exh.	1.625	7.0 mm / .2740	5.600	15° x 1/2"	.080	.100	9° Dish	XH-428
11226-8*	Int.	2.200	7.0 mm / .2740	5.600	10° x 3/8"	.050	.080	5° Dish	NK-844

ACURA NSX

AUDI

BMW

BRIGGS & STRATTON

DODGE NEON

NISSAN

ARIAS

AUTO CRAFT 4

BRODIX

CORVETTE LS-6

CHRYSLER

EDELBROCK

INDIAN MOTORCYCLE

# CUSTOM STAINLESS VALVES

## GENERATION II RACE SERIES

### CUSTOM STAINLESS STEEL VALVES

- ✓ 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 1.500" or 38 mm. All others .800" or 20.32 mm.



All Gen II custom stainless valve part numbers are priced to include all machining to render a finished valve.

Part No.	Type	Maximum Head Diameter	Stem Diameter	Maximum Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Material
<b>RACE FLO / RACE MASTER GEN II CUSTOM VALVES</b>									
11215-8	Exh.	1.940	.3715	5.650	15° x 1/2"	.080	.100	9° Dish	XH-426
11214-8	Int.	2.425	.3715	5.650	12° x 3/8"	.050	.080	7° Dish	NK-842
11203-8	Exh.	1.625	.3415	5.500	15° x 1/2"	.090	.100	9° Dish	XH-426
11217-8	Exh.	1.650	.3415	5.640	Pro Flo 15° x 1/2"	.090	.100	9° Dish	XH-426
<small>Pro Flo start is 1.600" from the top of the head.</small>									
11243-8	Exh.	1.900	.3415	5.700	25° x 3/8"	.080	.100	20° Dish	XH-426
11201-8	Exh.	1.940	.3415	6.415	25° x 3/8"	.080	.100	20° Dish	XH-426
11241-8	Exh.	1.940	.3415	6.000	10° x 3/8"	.075	.100	5° Dish	XH-426
11202-8	Int.	2.100	.3415	5.500	10° x 3/8"	.065	.080	5° Dish	NK-842
11216-8	Int.	2.150	.3415	5.640	Pro Flo 10° x 3/8"	.050	.080	5° Dish	NK-842
<small>Pro Flo start is 1.600" from the top of the head.</small>									
11200-8	Int.	2.375	.3415	5.700	10° x 3/8"	.050	.080	5° Dish	NK-842
11244-8	Int.	2.425	.3415	6.600	10° x 3/8"	.050	.080	5° Dish	NK-842
11211-4	Exh.	38.5 mm	8.0 mm / .3130	4.425	15° x 3/8"	.060	.090	10° Dish	XH-426
11205-4	Exh.	40.0 mm	8.0 mm / .3130	5.000	15° x 1/2"	.080	.100	9° Dish	XH-426
11210-4	Int.	48.5 mm	8.0 mm / .3130	4.425	10° x 11/32"	.060	.080	6° Dish	NK-842
11204-4	Int.	52.0 mm	8.0 mm / .3130	5.000	10° x 3/8"	.050	.080	5° Dish	NK-842
11207-8	Exh.	1.625	.3110	5.700	15° x 1/2"	.080	.100	9° Dish	XH-426
11206-8	Int.	2.100	.3110	5.700	10° x 3/8"	.050	.080	5° Dish	NK-842
11249-8	Exh.	2.100	.3100	5.400	22° x 1/4"	.050	.100	17° Dish	XH-426
11248-8*	Int.	2.300	.3100	5.900	24° x 3/4"	.060	.080	19° Dish	NK-842
11247-8	Exh.	37.0 mm	7.0 mm / .2740	4.800	15° x 1/2"	.080	.100	9° Dish	XH-426
11246-8	Int.	48.0 mm	7.0 mm / .2740	4.800	10° x 3/8"	.050	.080	5° Dish	NK-842
11250-8	Int.	48.0 mm	7.0 mm / .2750	5.430	10° x 3/8"	.050	.080	5° Dish	NK-842
11259-8	Int.	32.5 mm	6.54 mm / .2575"	113.5 mm	Pro Flo: 22° x 7/16"	.065	.080	Flat Face	XH-426
11260-8	Int.	36.0 mm	6.57 mm / .2587"	113.5 mm	Pro Flo: 22° x 11/32"	.065	.080	Flat Face	NK-842
11213-8	Exh.	32.0 mm	6.0 mm / .2362"	113.5 mm	25° x 11/32"	.065	.080	20° Dish	XH-426
11212-8	Int.	39.0 mm	6.0 mm / .2362"	113.5 mm	Pro Flo: 22° x 5/16"	.065	.080	17° Dish	NK-842
11209-8	Exh.	32.0 mm	5.5 mm / .2165"	119.0 mm	25° x 11/32"	.065	.080	Flat Face	XH-426
11239-8	Exh.	33.5 mm	5.5 mm / .2165"	122.0 mm	Pro Flo: 22° x 5/16"	.065	.080	Flat Face	XH-426
11208-8	Int.	37.0 mm	5.5 mm / .2165"	119.0 mm	Pro Flo: 22° x 5/16"	.065	.080	Flat Face	NK-842

MAZDA

SUZUKI

SUBARU

TOYOTA

VOLVO

VIPER

YAMAHA

... just some of the custom applications produced.

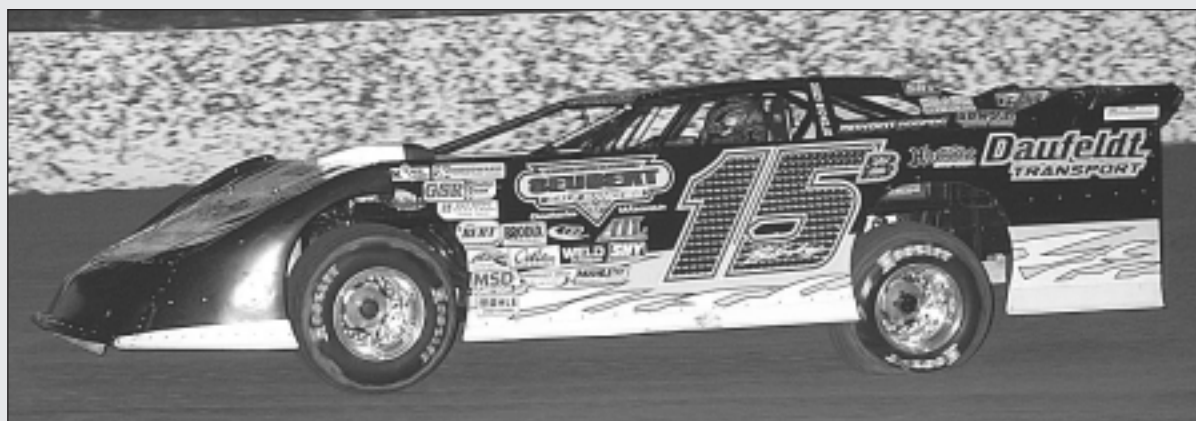
# TITANIUM VALVES

## SMALL BLOCK GM, FORD & CHRYSLER TITANIUM EXHAUST VALVES

- ✓ All valves have inserted hard tips
- ✓ "HT" suffix indicates high temperature material
- ✓ "B" suffix indicates a Bead Loc<sup>®</sup> keeper groove



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11401 T-8	Exh.	1.600	.3415	.100 Longer	5.060	.290	15° x 1/2"	.100	.100	73
11403 T-8	Exh.	1.600	.3415	.200 Longer	5.160	.290	15° x 1/2"	.100	.100	74
11405 T-8	Exh.	1.600	.3415	.300 Longer	5.260	.290	15° x 1/2"	.100	.100	75
11407 T-8	Exh.	1.600	.3415	.400 Longer	5.360	.290	15° x 1/2"	.100	.100	76
11409 T-8	Exh.	1.600	.3415	.500 Longer	5.460	.290	15° x 1/2"	.100	.100	77
11451 T-8	Exh.	1.600	.3415	.600 Longer	5.560	.290	15° x 1/2"	.100	.100	78
11463 T-8	Exh.	1.600	.3415	Stock	4.960	.290	20° x 7/16"	.100	.100	74
11425 T-8	Exh.	1.600	.3415	.100 Longer	5.060	.290	20° x 7/16"	.100	.100	75
11427 T-8	Exh.	1.600	.3415	.200 Longer	5.160	.290	20° x 7/16"	.100	.100	76
11427 HT-8	Exh.	1.600	.3415	.200 Longer	5.160	.290	20° x 7/16"	.100	.100	76
11429 T-8	Exh.	1.600	.3415	.300 Longer	5.260	.290	20° x 7/16"	.100	.100	77
11465 HT-8	Exh.	1.600	.3415	.300 Longer	5.240	.290	20° x 7/16"	.080	.100	74
11431 T-8	Exh.	1.600	.3415	.400 Longer	5.360	.290	20° x 7/16"	.100	.100	78
11433 T-8	Exh.	1.600	.3415	.500 Longer	5.460	.290	20° x 7/16"	.100	.100	79
11471 HT-8	Exh.	1.600	.3415	.600 Longer	5.560	.290	20° x 7/16"	.100	.100	80
11469 HT-8	Exh.	1.600	.3415	.600 Longer	5.560	.290	25° x 3/4"	.100	.100	83



**Brian Birkhofer**  
 Pro Power Racing Engines  
 Multiple Dirt Late Model Winner

# TITANIUM VALVES

## SMALL BLOCK GM, FORD & CHRYSLER TITANIUM EXHAUST VALVES

- ✓ All valves have inserted hard tips
- ✓ "HT" suffix indicates high temperature material
- ✓ "B" suffix indicates a Bead Loc<sup>®</sup> keeper groove



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11411 T-8	Exh.	1.625	.3415	.100 Longer	5.060	.290	15° x 1/2"	.100	.100	74
11413 T-8	Exh.	1.625	.3415	.200 Longer	5.160	.290	15° x 1/2"	.100	.100	75
11415 T-8	Exh.	1.625	.3415	.300 Longer	5.260	.290	15° x 1/2"	.100	.100	76
11417 T-8	Exh.	1.625	.3415	.400 Longer	5.360	.290	15° x 1/2"	.100	.100	77
11419 T-8	Exh.	1.625	.3415	.500 Longer	5.460	.290	15° x 1/2"	.100	.100	78
11447 T-8	Exh.	1.625	.3415	.600 Longer	5.560	.290	15° x 1/2"	.100	.100	79
11447 HT-8	Exh.	1.625	.3415	.600 Longer	5.560	.290	15° x 1/2"	.100	.100	79
11435 T-8	Exh.	1.625	.3415	.100 Longer	5.060	.290	20° x 7/16"	.100	.100	75
11437 T-8	Exh.	1.625	.3415	.200 Longer	5.160	.290	20° x 7/16"	.100	.100	76
11439 T-8	Exh.	1.625	.3415	.300 Longer	5.260	.290	20° x 7/16"	.100	.100	77
11441 T-8	Exh.	1.625	.3415	.400 Longer	5.360	.290	20° x 7/16"	.100	.100	78
11443 T-8	Exh.	1.625	.3415	.500 Longer	5.460	.290	20° x 7/16"	.100	.100	79
11443 HT-8	Exh.	1.625	.3415	.500 Longer	5.460	.290	20° x 7/16"	.100	.100	79
11453 T-8	Exh.	1.625	.3415	.600 Longer	5.560	.290	20° x 7/16"	.100	.100	80
11453 HT-8	Exh.	1.625	.3415	.600 Longer	5.560	.290	20° x 7/16"	.100	.100	80
11453 TB-8	Exh.	1.625	.3415	.600 Longer	5.560	.290	20° x 7/16"	.100	.100	80
11453 HTB-8	Exh.	1.625	.3415	.600 Longer	5.560	.290	20° x 7/16"	.100	.100	80
11475 HTB-8	Exh.	1.625	.3415	.700 Longer	5.660	.290	20° x 7/16"	.100	.100	81
11455 HT-8	Exh.	1.625	.3415	.500 Longer	5.460	.290	25° x 3/4"	.100	.100	85
11457 T-8	Exh.	1.625	.3415	.600 Longer	5.560	.290	25° x 3/4"	.100	.100	86
11457 HT-8	Exh.	1.625	.3415	.600 Longer	5.560	.290	25° x 3/4"	.100	.100	86
11457 TB-8	Exh.	1.625	.3415	.600 Longer	5.560	.290	25° x 3/4"	.100	.100	86
11473 T-8	Exh.	1.625	.3415	.700 Longer	5.660	.290	25° x 3/4"	.100	.100	87
11473 TB-8	Exh.	1.625	.3415	.700 Longer	5.660	.290	25° x 3/4"	.100	.100	87
11477 TB-8*	Exh.	1.625	.3415	.700 Longer	5.640	.290	25° x 1/2"	.080	.100	85
11449 T-8	Exh.	1.650	.3415	.600 Longer	5.560	.290	15° x 1/2"	.100	.100	80
11445 T-8	Exh.	1.650	.3415	.500 Longer	5.460	.290	20° x 7/16"	.100	.100	81
11423 T-8	Exh.	1.650	.3415	.500 Longer	5.460	.290	25° x 3/4"	.100	.100	84
11459 T-8	Exh.	1.650	.3415	.600 Longer	5.560	.290	25° x 3/4"	.100	.100	85

\* Valve 11477 TB\* has a 55° seat.

# TITANIUM VALVES

## SMALL BLOCK GM, FORD & CHRYSLER TITANIUM INTAKE VALVES

- ✓ All valves have inserted hard tips
- ✓ "HT" suffix indicates high temperature material
- ✓ "B" suffix indicates a Bead Loc<sup>®</sup> keeper groove



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11948 T-8	Int.	2.020	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100	86
11452 T-8	Int.	2.055	.3415	Stock	4.940	.290	10° x 3/8"	.080	.100	85
11474 T-8	Int.	2.055	.3415	.100 Longer	5.040	.290	10° x 3/8"	.080	.100	86
11950 T-8	Int.	2.055	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100	87
11454 T-8	Int.	2.080	.3415	Stock	4.940	.290	10° x 3/8"	.080	.100	86
11400 T-8	Int.	2.080	.3415	.100 Longer	5.040	.290	10° x 3/8"	.080	.100	87
11402 T-8	Int.	2.080	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100	88
11404 T-8	Int.	2.080	.3415	.300 Longer	5.240	.290	10° x 3/8"	.080	.100	89
11406 T-8	Int.	2.080	.3415	.400 Longer	5.340	.290	10° x 3/8"	.080	.100	90
11472 T-8	Int.	2.080	.3415	.500 Longer	5.440	.290	10° x 3/8"	.080	.100	91
11444 T-8	Int.	2.080	.3415	.600 Longer	5.540	.290	10° x 3/8"	.080	.100	92
11408 T-8	Int.	2.100	.3415	.100 Longer	5.040	.290	10° x 3/8"	.080	.100	89
11410 T-8	Int.	2.100	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100	90
11412 T-8	Int.	2.100	.3415	.300 Longer	5.240	.290	10° x 3/8"	.080	.100	91
11456 T-8	Int.	2.100	.3415	.300 Longer	5.240	.290	12° x 7/16"	.080	.100	93
11462 T-8*	Int.	2.100	.3415	.345 Longer	5.285	.290	12° x 3/8"	.080	.090	94
11462 HT-8*	Int.	2.100	.3415	.345 Longer	5.285	.290	12° x 3/8"	.080	.090	94
11414 T-8	Int.	2.100	.3415	.400 Longer	5.340	.290	10° x 3/8"	.080	.100	94
11416 T-8	Int.	2.100	.3415	.500 Longer	5.440	.290	10° x 3/8"	.080	.100	95
11446 T-8	Int.	2.100	.3415	.500 Longer	5.440	.290	12° x 7/16"	.080	.100	96
11434 T-8	Int.	2.100	.3415	.600 Longer	5.540	.290	10° x 3/8"	.080	.100	96
11440 T-8	Int.	2.125	.3415	Stock	4.940	.290	10° x 3/8"	.080	.100	89
11442 T-8	Int.	2.125	.3415	.100 Longer	5.040	.290	10° x 3/8"	.080	.100	90
11418 T-8	Int.	2.125	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100	91
11420 T-8	Int.	2.125	.3415	.300 Longer	5.240	.290	10° x 3/8"	.080	.100	92
11422 T-8	Int.	2.125	.3415	.400 Longer	5.340	.290	10° x 3/8"	.080	.100	93
11424 T-8	Int.	2.125	.3415	.500 Longer	5.440	.290	10° x 3/8"	.080	.100	94
11448 T-8	Int.	2.125	.3415	.500 Longer	5.440	.290	12° x 7/16"	.080	.100	95
11436 T-8	Int.	2.125	.3415	.600 Longer	5.540	.290	10° x 3/8"	.080	.100	95
11470 T-8	Int.	2.125	.3415	.600 Longer	5.540	.290	12° x 7/16"	.080	.100	96

\* Valves 11462 T & 11462 HT have a back cut of .090" x 30°.

# TITANIUM VALVES

## SMALL BLOCK GM, FORD & CHRYSLER TITANIUM INTAKE VALVES

- ✓ All valves have inserted hard tips
- ✓ "HT" suffix indicates high temperature material
- ✓ "B" suffix indicates a Bead Loc<sup>®</sup> keeper groove



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11428 T-8	Int.	2.150	.3415	.200 Longer	5.140	.290	10° x 3/8"	.080	.100	94
11430 T-8	Int.	2.150	.3415	.300 Longer	5.240	.290	10° x 3/8"	.080	.100	95
11432 T-8	Int.	2.150	.3415	.400 Longer	5.340	.290	10° x 3/8"	.080	.100	96
11458 T-8	Int.	2.150	.3415	.400 Longer	5.340	.290	12° x 7/16"	.080	.100	97
11426 T-8	Int.	2.150	.3415	.500 Longer	5.440	.290	10° x 3/8"	.080	.100	97
11450 T-8	Int.	2.150	.3415	.500 Longer	5.440	.290	12° x 7/16"	.080	.100	98
11496 HTB-8	Int.	2.150	.3110	.600 Longer	5.540	.290	12° x 3/8"	.080	.100	91
11438 T-8	Int.	2.150	.3415	.600 Longer	5.540	.290	10° x 3/8"	.080	.100	99
11460 T-8	Int.	2.150	.3415	.600 Longer	5.540	.290	12° x 7/16"	.080	.100	100
11460 HTB-8	Int.	2.150	.3415	.600 Longer	5.540	.290	12° x 7/16"	.080	.100	100
11498 HTB-8	Int.	2.150	.3110	.700 Longer	5.640	.290	12° x 3/8"	.080	.100	92
11476 HT-8	Int.	2.150	.3415	.700 Longer	5.640	.290	12° x 3/8"	.080	.100	101
11476 HTB-8	Int.	2.150	.3415	.700 Longer	5.640	.290	12° x 3/8"	.080	.100	101
11466 T-8	Int.	2.180	.3415	.500 Longer	5.440	.290	12° x 3/8"	.080	.100	99
11494 HTB-8	Int.	2.180	.3110	.600 Longer	5.540	.290	12° x 3/8"	.080	.100	92
11468 T-8	Int.	2.180	.3415	.600 Longer	5.540	.290	12° x 3/8"	.080	.100	100
11488 HTB-8	Int.	2.180	.3110	.700 Longer	5.640	.290	12° x 3/8"	.080	.100	93
11486 HT-8	Int.	2.180	.3415	.700 Longer	5.640	.290	12° x 3/8"	.080	.100	101
11486 HTB-8	Int.	2.180	.3415	.700 Longer	5.640	.290	12° x 3/8"	.080	.100	101
11942 HTB-8*	Int.	2.180	.3110	.800 Longer	5.740	.290	12° x 3/8"	.080	.080	94
11464 T-8	Int.	2.200	.3415	.600 Longer	5.540	.290	10° x 3/8"	.080	.100	100

\* Valve 11942 HTB has a 52° seat.

# TITANIUM VALVES

## BIG BLOCK GENERAL MOTORS

Big Block GM valves except 11490 T and 11944 T do not come with a hardened tip. Tip protection is required - Manley wear cap P/N 42104.

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11479-8	Exh.	1.880	.3415	Stock	5.440	.250	30° x 5/8"	.090	.075	100
11481-8	Exh.	1.900	.3415	Stock	5.440	.250	30° x 5/8"	.090	.075	101
11483-8	Exh.	1.900	.3415	.100 Longer	5.540	.250	30° x 5/8"	.090	.075	102
11480-8	Int.	2.250	.3415	Stock	5.250	.250	10° x 3/8"	.065	.075	89
11490-8	Int.	2.250	.3415	.100 Longer	5.350	.250	10° x 3/8"	.065	.075	90
11490 T-8	Int.	2.250	.3415	.100 Longer	5.350	.290	10° x 3/8"	.065	.075	90
11492-8	Int.	2.250	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	91
11944 T-8	Int.	2.300	.3415	.100 Longer	5.350	.290	10° x 3/8"	.065	.075	94
11482-8	Int.	2.300	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	95
11940-8	Int.	2.325	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	96
11484-8	Int.	2.350	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	97

## BRIGGS and 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
98041-1	Exh.	1.125	.2475	Stock	3.845	.235	Pro Flo: 0° x 3/16"	.060	.080	24
98043-1	Exh.	1.200	.2475	Stock	3.845	.235	Pro Flo: 0° x 3/16"	.060	.080	25
98040-1	Int.	1.250	.2475	Stock	3.845	.235	Pro Flo: 0° x 3/16"	.050	.070	26
98042-1	Int.	1.375	.2475	Stock	3.845	.235	Pro Flo: 0° x 3/16"	.050	.070	27
98044-1	Int.	1.437	.2475	Stock	3.845	.235	0° x 3/16"	.050	.070	29
98031-1	Exh.	1.500 Max	.2475	*	4.800 Max	.235	5° x 5/16" Max.	*	*	
98030-1	Int.	2.000 Max	.2475	*	4.800 Max	.235	5° x 5/16" Max.	*	*	

## DART BIG BLOCK PRO 1<sup>®</sup> and 320 / 360 HEADS

Dart Big Block titanium valves do not come with a hardened tip. Tip protection is required - Manley wear cap P/N 42104.

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11479-8	Exh.	1.880	.3415	Stock	5.440	.250	30° x 5/8"	.090	.075	100
11481-8	Exh.	1.900	.3415	Stock	5.440	.250	30° x 5/8"	.090	.075	101
11492-8	Int.	2.250	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	91
11482-8	Int.	2.300	.3415	.250 Longer	5.500	.250	10° x 3/8"	.065	.075	95

## HONDA / ACURA V-TEC TITANIUM VALVES

These valves do not come with a hardened tip. Tip protection is required - Manley wear cap P/N 42263.

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11945-1	Exh.	29 mm	5.5 mm / .2165"	Stock	102.7 mm	.095	25° x 3/8"	.065	.080	27
11946-1	Int.	34 mm	5.5 mm / .2165"	Stock	102.4 mm	.095	22° x 1/4"	.050	.075	30

## TOP FUEL & FUNNY CAR TITANIUM VALVES

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

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11989-8	Exh.	2.000	.3415	.100 Longer	5.020	.250	25° x 3/8"	.085	.075	100
11956-8	Int.	2.375	.3415	.100 Longer	5.600	.250	25° x 5/8"	.065	.075	139
11994-8	Int.	2.400	.3415	.100 Longer	5.600	.250	25° x 5/8"	.070	.125	141
11994 B-8*	Int.	2.400	.3415	.100 Longer	5.600	.250	25° x 5/8"	.070	.125	141
11998-8	Int.	2.400	.3415	.200 Longer	5.700	.250	25° x 5/8"	.080	.125	142
11998 B-8*	Int.	2.400	.3415	.200 Longer	5.700	.250	25° x 5/8"	.080	.125	142

\* Valves 11994 B and 11998 B have a Bead Loc® keeper groove. Bead Loc® valve locks are required.

## PONTIAC PRO STOCK & DART BIG CHIEF TITANIUM VALVES

Pontiac valves P/N's 11920 and 11921 do not come with a hardened tip. Tip protection is required - Manley wear cap P/N 42104. Valves 11922 T and 11923 T have hard tips inserted.

Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Wgt / Grams
11921-8	Exh.	1.900	.3415	Stock	6.450	.250	30° x 5/8"	.125	.075	116
11923 T-8	Exh.	1.900	.3415	Stock	6.490	.290	30° x 5/8"	.125	.075	117
11920-8	Int.	2.400	.3415	Stock	6.600	.250	12° x 3/8"	.065	.075	112
11922 T-8	Int.	2.400	.3415	Stock	6.640	.290	12° x 3/8"	.065	.075	113

# CUSTOM TITANIUM VALVES

Please contact any of the Manley technical representatives directly at the factory for your custom valve requirements. The following part numbers cover most common applications, but we can - and have - made titanium valves for a huge variety of engines from Alfa Romeo through Coventry Climax to Yamaha. ( As of this writing, no Zephers ). When ordering a custom valve you will need to supply dimensions for every aspect of the drawing shown on the inside back cover. Please fax this completed drawing with your order. We welcome the chance to serve you.



## SPECIAL OPERATIONS AVAILABLE

Part No.	Operation
<b>04020-8</b>	Installation of hard tip. The cost of the tip itself is additional. Please see page 52 for our listing of hard tips.
<b>04035-8</b>	Second back angle cut. Please specify the angle and width you desire.
<b>04026-8</b>	Dish combustion face. Please specify the rim width and angle of the dish. The dish angle must be 5° LESS than the back angle of the valve, and a .250" wide rim is strongly suggested.

Part No.	Application	Type	Stem Diameter	Head Diameter
<b>11937-8</b>	SB General Motors	Exh. - Orange	.3110"/.3415"	Up to 1.675"
<b>11935-8</b>	SB General Motors	Exh. - HT	.3110"/.3415"	Up to 1.675"
<b>11933-8</b>	SB General Motors	Int.	.3110"/.3415"	Up to 2.250"
<b>11933 H-8</b>	SB General Motors	Int. - HT	.2740"/.3110"/.3415"	Up to 2.250"
<b>11939-8</b>	BB General Motors	Exh. - Orange	.3110"/.3415"	Up to 2.050"
<b>11939 H-8</b>	BB General Motors	Exh. - HT	.3110"/.3415"	Up to 2.050"
<b>11930-8</b>	BB General Motors	Int.	.3110"/.3415"	Up to 2.600"
<b>11930 H-8</b>	BB General Motors	Int. - HT	.2740"/.3110"/.3415"	Up to 2.650"
<b>11933-8</b>	Chrysler Hemi	Exh.	.3415"	Up to 2.050"
<b>11936-8</b>	Chrysler Hemi	Int.	.3415"	Up to 2.650"
<b>11937-8</b>	SB Ford ( Incl. Yates )	Exh. - Orange	.3110"/.3415"	Up to 1.710"
<b>11935-8</b>	SB Ford ( Incl. Yates )	Exh. - HT	.3110"/.3415"	Up to 1.710"
<b>11933-8</b>	SB Ford ( Incl. Yates )	Int.	.3110"/.3415"	Up to 2.250"
<b>11933 H-8</b>	SB Ford ( Incl. Yates )	Int. - HT	.3110"/.3415"	Up to 2.250"
<b>11939-8</b>	Ford 429-460	Exh. - Orange	.3110"/.3415"	Up to 2.050"
<b>11939 H-8</b>	Ford 429-460	Exh. - HT	.3110"/.3415"	Up to 2.050"
<b>11930-8</b>	Ford 429-460	Int.	.3110"/.3415"	Up to 2.600"
<b>11930 H-8</b>	Ford 429-460	Int. - HT	.3110"/.3415"	Up to 2.650"
<b>11937 V-1</b>	Honda V-Tec	Exh.	5.5 mm / .2165"	Up to 32 mm
<b>11933 V-1</b>	Honda V-Tec	Int.	5.5 mm / .2165"	Up to 40 mm
<b>11937 M-4</b>	Volkswagen, etc.	Exh.	.3130"	Up to 42 mm
<b>11938 M-4</b>	Volkswagen, etc.	Int.	.3130"	Up to 50 mm

Your invoice will reflect the addition of a letter suffix to the catalog number shown above. This suffix designates the correct moly length and placement of the custom valve you have ordered.