



ENGINEERING TO EXCELLENCE

FOR HIGH QUALITY VALVETRAIN COMPONENTS

RELIABILITY
INNOVATION
TOP QUALITY
EXPERIENCE



2009
PARTS CATALOG

**TITANIUM & SUPER
ALLOY VALVES**



VALVE SPRINGS



TITANIUM RETAINERS



CAMSHAFTS



LIFTERS



VALVE GUIDES



SEAT LOCATORS



VALVE LOCKS



ROLLER ROCKERS



OVER 40 YEARS OF EXPERIENCE

For the past 40 years, Ferrea has been manufacturing hard core racing components for various types of engines in a wide range of categories worldwide. Our company uses the latest technological advances gained through the development of engine valve programs for Formula 1, Indy Car, NASCAR, Sprint Car, Drag and Road racing teams. This technology allows us to provide the highest level of performance and reliability for our customers. Our association with many of the industry's leading head manufacturers has given us the opportunity to implement these race proven high quality designs for all categories of racing. Our valves can be found in engines such as:

ACURA

AMC

AUDI

BMW

BRIGGS & STRATTON

BUICK

CHEVROLET

CHRYSLER

COSWORTH

DODGE

FERRARI

FIAT

FORD

GEO

GM

HARLEY DAVIDSON

HONDA

HYUNDAI

JUDD

KAWASAKI

LAMBORGHINI

MASERATI

MAZDA

MERCEDES BENZ

MCLAREN

MINI COOPER

MITSUBISHI

MOPAR

NISSAN

OLDSMOBILE

OLDS QUAD 4

PEUGEOT

PONTIAC

PORSCHE

RENAULT

SATURN

SCION

SUBARU

SUZUKI

TOYOTA

VOLKSWAGEN

YAMAHA

Welcome to Ferrea

For the past years a variety of factors affected the economy in general and, of course our industry. Our careful and constant attention to those changes and decisions made upon, bring the company to a healthy position to face the current conditions.

We continue to lead our organization with emphasis in research, development and technical activities, to deliver solutions for a demanding racing industry.

In the production area at our US based factory in Fort Lauderdale, Florida, we are able to offer a faster turn around time for custom made valves and special projects for valve-train components.

Expansion in the customer base in the USA and worldwide is solid and with personal attention to the particular needs for different markets (Domestic, Sport Compact, Motorcycle, Marine and Special Projects).

Technical and Sales departments personnel kept a busy schedule on the road, visiting domestic and foreign customers with a special presentations on trade shows and races.

This catalog that we present to you is an all year around effort from all our personnel and we hope that it will meet your expectations and we thank you for any input that will help us to make the next catalog a better one.

Please, review the 2009 printed edition or the CD digital version and visit our web site at www.ferrea.com for additional information.

Sincerely,

Daniel Urrutia
President & CEO

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MATERIALS

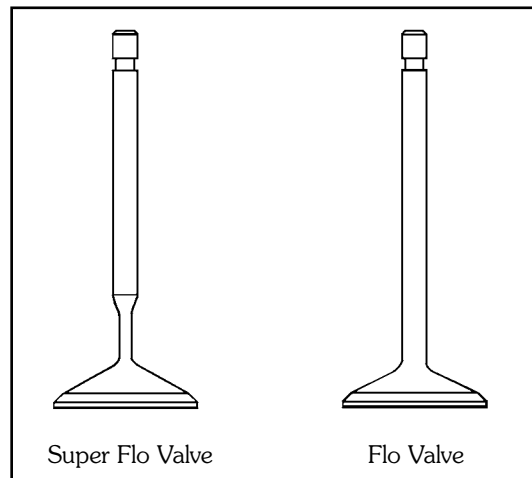
Proper material choice for the application is crucial to the valve performance and reliability. The extreme change of temperature to a valve in the combustion chamber area (in excess of 1600° F) and in the intake manifold area (up to -25° F), can cause “thermal fatigue”. The material’s ability to resist these drastic thermal variations is crucial to the valve life. This is why **Ferrea** is constantly testing and evaluating new materials and processes to provide the highest level of “fatigue resistance” in the industry. Here is the growing list of materials that we use in the production of our valves:

X3	Steel Alloy (Chromium/Silicon)	Intake Valves
Y6	Steel Alloy (Chromium/Silicon)	Heavy Duty Intake Valves
EV8	Stainless Steel (Chromium/Nickel)	Racing Intake & Exhaust Valves
EV8-Z18	Stainless Steel (Chromium/Nickel) + Tungsten	Racing Intake & Exhaust Valves
EV4-N12	Stainless Steel Hi-Temp	Turbo Intake & Exhaust Valves
VV54/EV16	Stainless Steel Hi-Temp	Racing Exhaust Valves
VV54/Nb/W	(Nickel Base + Niobium + Tungsten)	Racing Exhaust Valves
VV50	Stainless Steel Hi-Temp	Racing Exhaust Valves
IN-751	Inconel Alloy 1.800 °F	Turbo Intake & Exhaust Valves
NICKELVAC N80A	Super Alloy (Nickel Base) 1.850 °F	Racing Exhaust Valves
NIMONIC 90	Super Alloy (Nickel Base) 2.000 °F	Turbo Exhaust Valves
NICKELVAC 600	Super Alloy (Nickel/Chromium) 2.200 °F	Racing Exhaust Valves
NICKELVAC 800	Super Alloy (Nickel/Chromium) 2.400 °F	Racing Exhaust Valves (Funny Car/Top Fuel)
NIMONIC 263	Super Alloy (Nickel Base) 2600 °F	Turbo & Nitro Exhaust Valves
WASPALLOY	Super Alloy (Nickel Base) 2700 °F	Turbo & Nitro Exhaust Valves
ASTELLOY 75	Super Alloy (Nickel Base)	Turbo Exhaust Valves
PYROMET	Super Alloy (Nickel Base)	Turbo Exhaust Valves
PYROMET 31 V	Super Alloy (Nickel Base)	Turbo & Nitro Exhaust Valves
PYROMET CTX-909	Super Alloy (High Nickel-Low Expansion)	Heavy Duty Turbo Applications
PYROMET A286	Super Alloy (High Nickel)	Turbo Application - Sport Compact
NCF 3015	Super Alloy (Nickel+Chromium+Titanium)	Turbo Racing Exhaust Valves
STELLITE	(Chromium/Tungstem)	Seat & Tips Applications

SUPER FLO vs. FLO

This illustration shows our **Super-Flo** valves (often referred to as under-cut and/or neck down), that actually reduces the stem diameter in the port area. This increases flow over “straight” stem diameter (**Flo** valves) considerably without adverse effect on reliability.

To properly establish the amount of reduction in the stem, several factors have to be considered, such as: original stem diameter, valve head thickness and diameter, valve material, engine application, etc. There is also extensive testing conducted to reach the more efficient combination.



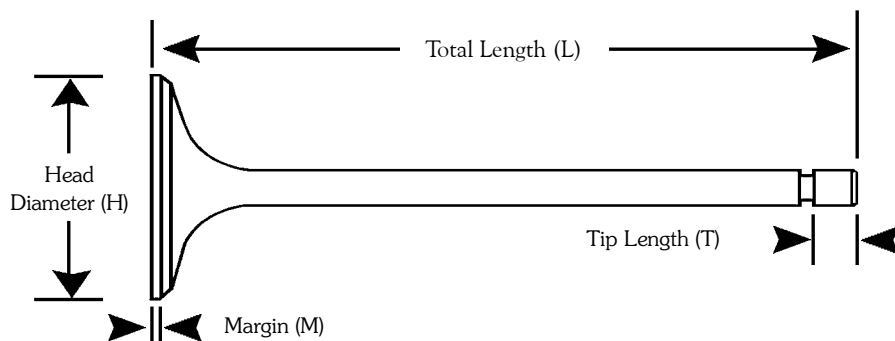
VALVE LENGTH CALCULATIONS

Valve lengths are calculated as overall length measurement. This is the length of the valve from the stem-end tip of the valve to the combustion chamber face. Many of the Cylinder Head Manufacturers use a system that calls for valves to be +100, +250, etc. This is an additional length added to a stock valve for that application. This can sometimes create confusion, since some stock lengths have changed over the years due to slight OEM changes. For the purposes of the Ferrea Racing Components catalog the following will be used as stock lengths for the most popular applications. Understand that as components manufactured for the Racing Industry, many times margins and other measurements will differ from stock, to create better flow characteristics, and to improve durability. As an engine builder or cylinder head assembler, it is your obligation to check this with your setup for that particular cylinder head and assure that proper geometry is obtained.

Many factors such as rocker arm choice and setup, seat machining and valve spring install height may create the need for a valve of different length than specified by either Ferrea Racing Components, or the cylinder head manufacturer.

Example

Engine	Intake Length	Exhaust Length
Small Block Chevrolet	4.910	4.910
Big Block Chevrolet	5.221	5.350
Chrysler	4.875	4.910
Ford 351C - 429 - 460	5.250	5.060
Ford 351W	5.030	5.030



PRODUCTION

One-Piece-Forged Valves

The manufacturing process of our one-piece forged valve begins as a simple steel rod which is formed under a **slow two-step electrical upsetting**; this ensures proper grain flow at critical temperatures. The formed upset ball is then placed into the die where the forging of the head takes place. The forged piece is then **CNC machined** entirely to eliminate any imperfections from the forging process.

Next, depending on the properties of the alloys and the specific application (intake or exhaust) the valve will undergo various stages of **heat treatments** and **stress relieving** to ensure proper molecular integrity and uniform grain structure throughout the entire piece.

After heat treatment, we use state-of-the-art **centerless grinding** machines in order to hold strict stem diameter tolerances. We then perform multiple **CNC machining** operations to the entire valve for consistent quality.

Next, we apply **hard chrome plating** to the valve stem to reduce guide wear and provide optimum antifriction performance. Finally, depending on which Ferrea Valve Series it is, the valve will either receive a personal touch of **micro-mirror polish, swirl polish, or CNC machine** finish.

During our final inspection **ultrasonic tests** and **x-rays** are performed, piece by piece, in order to give each part a certified quality assurance.

Bimetallic Forged Valves

Ferrea Bimetallic Valves offer advanced design solutions for those extreme valve train applications, which need to meet certain high **heat engine requirements, ultimate tensile strengths**, reduce **valve stem flex**, and also feature **induction hardened** grooves and valve stem tips providing additional fatigue strength through the keeper groove area.

The manufacturing process of our bimetallic forged valve utilizes an inertia-welded design. Two steel rods of different valve alloy materials are precisely fused together using state-of-the-art equipment that applies **inertia** and a **force** to weld the two pieces into **one solid component rod**. The stem weld length is critical such that its location remains inside the valve guide area at maximum valve lifts.

It is the only approved method for Aerospace valve applications.

Next, the complete steel rod is taken through the same upsetting and forging processes as our one-piece forged valve. Depending on the properties of the alloys and the specific application (intake or exhaust) the valve will undergo various stages of **stress relieving**, to ensure proper molecular integrity throughout the entire piece. After forging and stress relieving, the valves are finished in the same manner as our one piece forged valves.

Hard Chrome Plate

Ferrea utilizes **Hard Chrome Plate** on all high performance valves to provide the valve stem with a **low coefficient of friction** and a **hard wear-resistant** surface. Hard chrome offers the best choice for **extreme engine applications** by allowing **higher lubricity** properties and **maximum heat transfer** from the valve stem to the valve guide contact area. Widely used by racing industry manufacturers worldwide, Ferrea prides itself in providing continuous high quality consistency of hard chrome thicknesses for more the 30 years. Ferrea offers engine builders the quality they have become accustomed to by continuously improving manufacturing techniques such as investing in **automated equipment** and practicing **clean environmental solutions** for future generations.



Valve Forging Process

VALVES TECH

GENERAL GUIDELINE FOR FERREA VALVES APPLICATION

TITANIUM VALVES:

These valves are used in professionally built high rpm (above 8000) roller or flat tappet racing engines. Applications include Drag Racing, NASCAR, Oval & Sprint Car, Road Racing, and Motorcycle.

SUPER ALLOY:

Special extreme duty Hi-Temperature Exhaust Valves. For use in Top/Fuel, Funny/Car, Supercharged, Nitrous, NASCAR, Sport Compact, Off-Shore Marine, 9.0 to 1 compression restricted carburetor motors (extreme exhaust temperature present).

HOLLOW STEM and HOLLOW STEM SODIUM-FILL VALVES:

The latest addition to the Ferrea Series. These **Hollow Stem Lightweight Valves** are manufactured with a unique process that gun drill and micro polish the hollow stem. For the **Sodium-Fill Valves** we add a specially formulated sodium into the hollow stem. The use of these valves achieves a weight reduction (20 % compared with a conventional stainless steel solid-stem valve) and a higher rpm's with the hollow stem valves and also a better heat dissipation with the sodium fill valves. Applications for Domestic, Sport Compact and Motorcycle markets.

COMPETITION PLUS:

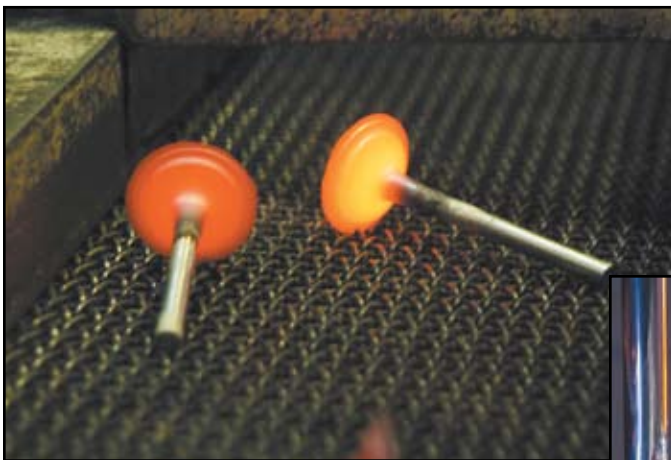
Extreme duty racing valves, engineered for high rpm, high horsepower racing engines. They have exclusive features, which makes them the best flowing valve on the market with unequalled performance and reliability. Drag Racing, NASCAR, Oval & Sprint Car, Road Racing, Sport Compact, Motorcycle and Off-Shore Marine.

6000 SERIES:

Competition valves with higher fatigue resistance and tensile strengths than our competitors' best offering. These valves are made to withstand high spring pressure, roller and flat tappet cams, Drag Racing, Oval Track, Road Racing and Sport Compact.

5000 SERIES:

Hi-Performance stainless steel one piece forged valves, fully machined, hard chrome, and hard tip. These valves are excellent for Hi-performance Street, mildly modified Drag Racing, and Oval Track applications.



Valves after the forging process.

Valves after completion of manufacturing process and ready for use.



PRODUCTION AND CUSTOM SPECIAL PARTS

PRODUCTION AND CUSTOM SPECIAL PARTS (Valves, Valve Train Components)

Ferrea US based factory, located at our headquarters in Fort Lauderdale, Florida, with its research, development, and production capabilities allow us to manufacture valves, retainers and other valve-train components to fit your particular application.

We are constantly updating all of our resources to be able to rapidly respond to our customer demands. Racing Valves not in stock can be custom made for you within days. Pricing and lead time are available upon request from our Technical Department at **1-888-733-2505** or at **ferrea@ferrea.com**.

COMPETITION PLUS SODIUM FILL - HOLLOW STEM VALVES

Ferrea Sodium Fill-Hollow Stem Valve is a sophisticated piece in which we combine our manufacturing process that gun drill and micro polish the stem with the addition of a **special formulated sodium** into the hollow stem. This combination achieves both **weight reduction** in the valve train and a **better dissipation of heat** from critical areas in the engine.

We offer these Sodium Fill-Hollow Stem Valves as “custom order” only. Please, contact our Technical Department at **1-888-733-2505** or at **ferrea@ferrea.com**.



Ferrea U.S. based factory.



COMPLETE VALVE-TRAIN KIT SOLUTIONS

DODGE CUMMINS
GM DURAMAX
FORD POWERSTROKE
ALSO FOR ANY CUSTOM
APPLICATION

**HIGH QUALITY
ENGINEERING,
PERFORMANCE,
& DURABILITY**

Ferrea



DIESEL POWER

ENGINEERED TO EXCELLENCE

HIGH COMPRESSION

SUPER ALLOY EXHAUST VALVES

**TITANIUM / STAINLESS INTAKE
VALVES**

BEEHIVE / DUAL VALVE SPRINGS

TITANIUM / STEEL RETAINERS

SPRING SEAT LOCATORS

CALL FOR MORE INFORMATION





DOMESTIC

APPLICATIONS



**ENGINEERING
TO EXCELLENCE**

FOR HIGH QUALITY VALVETRAIN COMPONENTS



TITANIUM COMPETITION VALVES

WHETHER YOU HAVE A 9000-RPM NASCAR,
A 14,000 RPM PRO STOCK MOTORCYCLE, OR TOP-FUEL DRAGSTER



Ferrea offers the finest titanium valve on the market. Our extensive R & D facility is constantly implementing new designs and processes, which continues to keep us in the forefront of engine valve technology. We manufacture each valve by forging the special high-temperature titanium alloy with silicon (This high-temp. alloy is considered a "special upgrade" by our competitors; however, it has been standard in all our exhaust and some intake valves for years). The valves then undergo an extensive heat treatment and stress-relieving process to ensure molecular integrity and prolong the valve's life. Each **Ferrea** titanium valve

is meticulously machined in our own precision CNC machining center where it must pass extensive quality control procedures. Our proprietary Chrome Nitride (CrN) coating set the standard for today's industry valve manufacturers. Our unique CrN coating is applied uniformly to the entire valve, forming a protective insulating barrier from high engine temperatures. Ferrea's CrN coating provides rapid heat dissipation to the valve guide surface, friction reduction, wear resistance, hardness, and allows dynamic valve train forces and valve flex stresses without delaminating or flaking. All of our special processes provide maximum performance and reliability, affording longer life in today's professional racing engines.

TITANIUM COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BRIGGS & STRATTON						
F0082	E	1.141	.247	3.845	.235	15° Super Flo-Go Kart & Jr. Dragster
F0080	I	1.252	.247	3.845	.235	15° Super Flo-Go Kart & Jr. Dragster
F0081	I	1.378	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
F0083	E/I	1.500	.247	4.800	BLANK	10° Super Flo-Go Kart & Jr. Dragster
CHEVROLET, CHRYSLER, FORD (BIG BLOCK 5/16)						
F1326	E	1.900	5/16	6.450	.290	25° Tulip-Hard Tip optional-PONTIAC
F1760	I	2.375	5/16	5.350	.290	13° Hard Tip optional. BBC +.100
F1761	I	2.375	5/16	5.450	.290	13° Hard Tip optional. Brodix/Dart
F1762	I	2.375	5/16	5.550	.290	13° Hard Tip optional. Brodix/Sonny BB5
F1763	I	2.375	5/16	6.410	.290	13° Hard Tip optional-PONTIAC
F1764	I	2.375	5/16	6.605	.290	13° Hard Tip optional-PONTIAC
F1765	I	2.425	5/16	6.410	.290	13° Hard Tip optional-PONTIAC
F1325	I	2.425	5/16	6.605	.290	12° Hard Tip optional-PONTIAC
F1766	I	2.425	5/16	6.900	.290	13° Hard Tip optional-EPD
F1767	I	2.500	5/16	6.605	.290	13° Hard Tip optional-PONTIAC
F1768	I	2.500	5/16	6.900	.290	13° Hard Tip optional-EPD-Pro Stock
CHEVROLET, CHRYSLER, FORD (BIG BLOCK 11/32)						
F1747	E	1.880	11/32	5.500	.290	31° Hard Tip optional
F1626	E	1.900	11/32	5.350	.290	22° Tulip-Hard Tip optional. Stock
F1327	E	1.900	11/32	5.425	.290	22° Tulip-Hard Tip optional. +.100
F1377	E	1.900	11/32	5.525	.290	22° Tulip-Hard Tip optional. +.200
F1328	E	1.900	11/32	5.700	.290	25° Tulip-Hard Tip optional-SVO-A460



Lou Osmond's Speed Sports Top Fuel Drag Hydroplane. -2007 World Champion. World Record Holder -4.7ET at 255.6MPH, uses Ferrea Super Alloy Exhaust and Ferrea Titanium intake valves.

TITANIUM COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET, CHRYSLER, FORD (BIG BLOCK 11/32)						
F1627	E	1.900	11/32	6.165	.290	22° Tulip-Hard Tip optional-SVO-C460
F1628	E	1.900	11/32	6.240	.290	22° Tulip-Hard Tip optional-SVO-C460
F1638	E	1.900	11/32	6.370	.290	22° Tulip-Hard Tip optional-FORD-SVO-C460
F1639	E	1.900	11/32	6.450	.290	28° Tulip Hard Tip optional-PONTIAC-Big Chief
F1629	E	1.900	11/32	6.600	.290	22° Tulip-Hard Tip optional-EPD
F1324	E	1.920	11/32	6.450	.290	22° Tulip-Hard Tip optional-PONTIAC
F1631	E	1.920	11/32	6.600	.290	22° Tulip-Hard Tip optional-EPD
F1632	E	1.940	11/32	5.020	.290	22° Tulip-Hard Tip optional-CHRY HEMI
F1633	E	1.940	11/32	5.700	.290	22° Tulip-Hard Tip optional-SVO-A460
F1634	E	1.940	11/32	6.600	.290	22° Tulip-Hard Tip optional-EPD
F1637	E	1.950	11/32	6.040	.250	25° Tulip-Hard Tip opt. Brad Anderson Heads
F1333	E	2.000	11/32	5.020	.250	22° Tulip-Hard Tip optional-CHRY HEMI
F1636	E	2.000	11/32	6.600	.290	25° Tulip-Hard Tip optional-EPD
F1375	E	2.300	11/32	6.250	.250	22° Tulip-Herbert Special. TAD-F/C
F1330	I	2.250	11/32	5.350	.290	12° Hard Tip optional. +.100
F1309	I	2.250	11/32	5.450	.290	12° Hard Tip optional. +.200
F1748	I	2.250	11/32	5.540	.290	12° Hard Tip optional
F1680	I	2.250	11/32	5.550	.290	12° Hard Tip optional. +.300
F1681	I	2.300	11/32	5.350	.290	12° Hard Tip optional. +.100
F1331	I	2.300	11/32	5.450	.290	12° Hard Tip optional. +.200
F1684	I	2.300	11/32	5.525	.290	12° Hard Tip optional-Brodix/Sonny BB5
F1749	I	2.300	11/32	5.540	.290	12° Hard Tip optional
F1682	I	2.325	11/32	5.350	.290	12° Hard Tip optional. +.100
F1683	I	2.325	11/32	5.450	.290	12° Hard Tip optional. +.200
F1367	I	2.325	11/32	5.525	.290	12° Hard Tip optional-Brodix/Sonny BB5
F1694	I	2.350	11/32	5.525	.290	12° Hard Tip optional-Brodix/Sonny BB5
F1329	I	2.375	11/32	5.610	.250	25° Tulip-CHRY HEMI-T/F-F/C
F1685	I	2.375	11/32	6.900	.290	12° Hard Tip optional-EPD
F1729	I	2.400	11/32	5.610	.250	25° Tulip-CHRY HEMI-T/F-F/C
F1334	I	2.400	11/32	5.755	.290	12° Hard Tip optional-SVO-A460
F1692	I	2.425	11/32	6.400	.400	12° Hard Tip optional. Brad Anderson Heads
F1686	I	2.425	11/32	6.410	.290	12° Hard Tip optional-PONTIAC
F1323	I	2.425	11/32	6.605	.290	12° Hard Tip optional-PONTIAC
F1687	I	2.425	11/32	6.900	.290	12° Hard Tip optional-EPD
F1338	I	2.450	11/32	5.475	.260	25° Tulip-CHRYSLER HEMI
F1339	I	2.450	11/32	5.610	.260	25° Semi Tulip-CHRYSLER HEMI
F1688	I	2.450	11/32	6.300	.290	12° Hard Tip optional-SVO-C 460
F1693	I	2.450	11/32	6.470	.290	12° Hard Tip optional. FORD-SVO-C 460
F1689	I	2.450	11/32	6.900	.290	12° Hard Tip optional-EPD
F1690	I	2.500	11/32	6.900	.290	25° Tulip-Hard Tip optional-EPD-Pro Stock
F1691	I	2.600	11/32	6.900	.290	25° Tulip-Hard Tip optional-EPD-Pro Stock
F1391	I	2.600	11/32	6.950	.250	25° Tulip-Herbert-T/F-F/C

TITANIUM COMPETITION VALVES



Steve Cocco launches the Murray's Speed & Custom '65 Chevelle. SBC 383 uses Ferrea Titanium Intake valves & Stainless Exhaust valves.

TITANIUM COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET, CHRYSLER, FORD (SMALL BLOCK 5/16)						
F1730	I	2.100	5/16	5.285	.290	12° Hard Tip optional-Yates Head
F1731	I	2.100	5/16	5.340	.290	12° Hard Tip optional-Brodix/Dart Head. +.400
F1732	I	2.100	5/16	5.450	.290	12° Hard Tip optional-Brodix/Dart Head. +.500
F1733	I	2.100	5/16	5.550	.290	12° Hard Tip optional-Brodix/Dart Head. +.600
F1743	I	2.125	5/16	5.285	.290	12° Hard Tip optional-Yates Head
F1744	I	2.125	5/16	5.340	.290	12° Hard Tip optional-Brodix/Dart Head. +.400
F1745	I	2.125	5/16	5.450	.290	12° Hard Tip optional-Brodix/Dart Head. +.500
F1746	I	2.125	5/16	5.550	.290	12° Hard Tip optional-Brodix/Dart Head. +.600
F1734	I	2.150	5/16	5.285	.290	12° Hard Tip optional-Yates Head
F1735	I	2.150	5/16	5.340	.290	12° Hard Tip optional-Brodix/Dart Head. +.400
F1736	I	2.150	5/16	5.450	.290	12° Hard Tip optional-Brodix/Dart Head. +.500
F1737	I	2.150	5/16	5.550	.290	12° Hard Tip optional-Brodix/Dart Head. +.600
F1738	I	2.200	5/16	5.285	.290	12° Hard Tip optional-Yates Head
F1739	I	2.200	5/16	5.340	.290	12° Hard Tip optional-Brodix/Dart Head. +.400
F1740	I	2.200	5/16	5.450	.290	12° Hard Tip optional-Brodix/Dart Head. +.500
F1741	I	2.200	5/16	5.550	.290	12° Hard Tip optional-Brodix/Dart Head. +.600
F1742	I	2.200	5/16	5.810	.290	12° Hard Tip optional-Splayed Head
CHEVROLET, CHRYSLER, FORD (SMALL BLOCK 11/32)						
F1346	E	1.600	11/32	4.960	.290	15° Hard Tip optional. Stock
F1302	E	1.600	11/32	5.040	.290	15° Hard Tip optional. +.100
F1341	E	1.600	11/32	5.140	.290	15° Hard Tip optional. +.200
F1600	E	1.600	11/32	5.240	.290	15° Hard Tip optional. +.300
F1308	E	1.600	11/32	5.340	.290	15° Hard Tip optional. +.400
F1344	E	1.600	11/32	5.450	.290	15° Hard Tip optional. +.500
F1351	E	1.600	11/32	5.550	.290	25° Tulip-Hard Tip optional. +.600
F1606	E	1.600	11/32	6.090	.290	25° Hard Tip optional-Brodix CVSP
F1347	E	1.625	11/32	4.960	.290	15° Hard Tip optional. Stock
F1303	E	1.625	11/32	5.040	.290	15° Hard Tip optional. +.100
F1340	E	1.625	11/32	5.140	.290	25° Tulip-Hard Tip optional. +.200
F1601	E	1.625	11/32	5.240	.290	15° Hard Tip optional. +.300
F1371	E	1.625	11/32	5.340	.290	15° Hard Tip optional. +.400
F1342	E	1.625	11/32	5.450	.290	15° Hard Tip optional. +.500
F1602	E	1.625	11/32	5.550	.290	15° Hard Tip optional. +.600
F1603	E	1.625	11/32	5.700	.290	15° Hard Tip optional-Splayed Head
F1345	E	1.650	11/32	5.140	.290	15° Hard Tip optional. +.200
F1604	E	1.650	11/32	5.240	.290	22° Semi Tulip-Hard Tip optional. +.300
F1605	E	1.650	11/32	5.340	.290	22° Semi Tulip-Hard Tip optional. +.400
F1343	E	1.650	11/32	5.450	.290	15° Hard Tip optional. +.500
F1348	E	1.650	11/32	5.450	.290	25° Tulip-Hard Tip optional. +.500
F1353	E	1.650	11/32	5.550	.290	25° Tulip-Hard Tip optional. +.600
F1650	I	2.020	11/32	4.960	.290	12° Hard Tip optional. Stock
F1651	I	2.020	11/32	5.040	.290	12° Hard Tip optional. +.100
F1349	I	2.055	11/32	4.960	.290	12° Hard Tip optional. Stock
F1652	I	2.055	11/32	5.040	.290	12° Hard Tip optional. +.100

TITANIUM COMPETITION VALVES



Larry Morgan long time Pro Stock racer since 1987 is a points leader using Ferrea Titanium Valves.

TITANIUM COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET, CHRYSLER, FORD (SMALL BLOCK 11/32)						
F1314	I	2.080	11/32	4.960	.290	12° Hard Tip optional. Stock
F1350	I	2.080	11/32	5.040	.290	12° Hard Tip optional. +.100
F1356	I	2.080	11/32	5.140	.290	12° Hard Tip optional. +.200
F1653	I	2.080	11/32	5.240	.290	12° Hard Tip optional. +.300
F1654	I	2.080	11/32	5.340	.290	12° Hard Tip optional. +.400
F1318	I	2.100	11/32	4.960	.290	12° Hard Tip optional. Stock
F1319	I	2.100	11/32	5.040	.290	12° Hard Tip optional. +.100
F1358	I	2.100	11/32	5.140	.290	12° Hard Tip optional. +.200
F1655	I	2.100	11/32	5.240	.290	12° Hard Tip optional. +.300
F1656	I	2.100	11/32	5.285	.290	12° Hard Tip optional-Yates Head
F1657	I	2.100	11/32	5.340	.290	12° Hard Tip optional. +.400
F1658	I	2.100	11/32	5.450	.290	12° Hard Tip optional. +.500
F1659	I	2.100	11/32	5.550	.290	12° Hard Tip optional. +.600
F1355	I	2.125	11/32	5.040	.290	12° Hard Tip optional. +.100
F1357	I	2.125	11/32	5.140	.290	12° Hard Tip optional. +.200
F1661	I	2.125	11/32	5.240	.290	12° Hard Tip optional. +.300
F1660	I	2.125	11/32	5.285	.290	12° Hard Tip optional-Yates Head
F1662	I	2.125	11/32	5.340	.290	12° Hard Tip optional. +.400
F1663	I	2.125	11/32	5.450	.290	12° Hard Tip optional. +.500
F1363	I	2.125	11/32	5.550	.290	12° Hard Tip optional. +.600
F1612	I	2.150	11/32	5.040	.290	12° Hard Tip optional. +.100
F1360	I	2.150	11/32	5.140	.290	12° Hard Tip optional. +.200
F1664	I	2.150	11/32	5.240	.290	12° Hard Tip optional. +.300
F1665	I	2.150	11/32	5.340	.290	12° Hard Tip optional. +.400
F1359	I	2.150	11/32	5.450	.290	12° Hard Tip optional. +.500
F1614	I	2.150	11/32	5.550	.290	12° Hard Tip optional. +.600
F1317	I	2.170	11/32	5.340	.290	12° Hard Tip optional. +.400
F1666	I	2.200	11/32	5.340	.290	12° Hard Tip optional. +.400
F1667	I	2.200	11/32	5.450	.290	12° Hard Tip optional. +.500
F1365	I	2.200	11/32	5.550	.290	12° Hard Tip optional. +.600
F1668	I	2.200	11/32	5.810	.290	12° Hard Tip optional-Splayed Head
F1669	I	2.250	11/32	6.200	.290	12° Hard Tip optional-Brodix CVSP
HONDA CRF 450 (2002-2006) - MOTOCROSS -						
F0410	I	36 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo. Dish Head. Stock size.
F0409	I	37 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo. Dish Head. - 1mm oversize.
F0408	I	38 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo. Dish Head. + 2mm oversize.
HONDA CRF 450 (2007-2008) - MOTOCROSS -						
F0410	I	36 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo. Dish Head. Stock size.
F0409	I	37 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo. Dish Head. - 1mm oversize.
F0408	I	38 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo-Dish Head. + 2mm oversize.
KAWASAKI 250 (2004) - MOTOCROSS -						
F0412	E	25 mm	4.46 mm	79.1 mm	1.03 mm	25° Flo. Stock
F0414	E	26 mm	4.46 mm	79.1 mm	1.03 mm	25° Flo. + 1mm oversize
F0411	I	31 mm	4.48 mm	78.93 mm	1.03 mm	20° Flo. Stock
F0413	I	32 mm	4.48 mm	78.93 mm	1.03 mm	20° Flo. + 1mm oversize
SUZUKI 250 (2004) - MOTOCROSS -						
F0412	E	25 mm	4.46 mm	79.1 mm	1.03 mm	25° Flo. Stock
F0414	E	26 mm	4.46 mm	79.1 mm	1.03 mm	25° Flo. + 1mm oversize
F0411	I	31 mm	4.48 mm	78.93 mm	1.03 mm	20° Flo. Stock
F0413	I	32 mm	4.48 mm	78.93 mm	1.03 mm	20° Flo. + 1mm oversize
SUZUKI GSXR 750 - ROAD RACE-						
F0088	E	24 mm	4.5 mm	96.4 mm	1.6 mm	15° Flo
F0087	I	29 mm	4.5 mm	96.3 mm	1.6 mm	15° Flo

TITANIUM COMPETITION VALVES



Daniel Schrey Racing holds numerous Road Racing Records using Ferrea Valves.

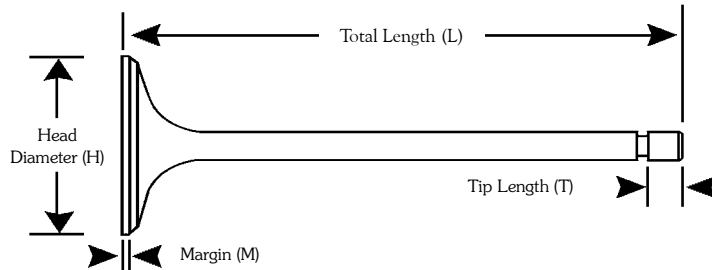


Legendary engine builder and racer Steve Schmidt uses Ferrea Titanium Valves.

TITANIUM COMPETITION VALVES - BLANKS

(BLANKS CUSTOM MACHINED)

Ferrea also offers **Titanium Blanks Valves** that can be custom-machined to your specifications. These custom valves can be produced with or without hard tips. We assure a fast turnaround time. Our selection of blanks now includes the **New Special Hi-Temp, Nitrous compatible exhaust valves**, unlike all other titanium valves, they will not flake, chip or peel at the bottom of the stem, due to heat or excessive movement. Also, the **New small diameter stem valves (7mm & 5.5 mm)** are now available for Honda, Acura, Toyota, Nissan, Aurora IRL motors.



Total Length of Valve (L):	_____
Tip Length (T):	_____
Head Diameter (H):	_____
(*) Margin Thickness (M):	_____
(*) Standard margins are: Intake .070	
Exhaust .080	

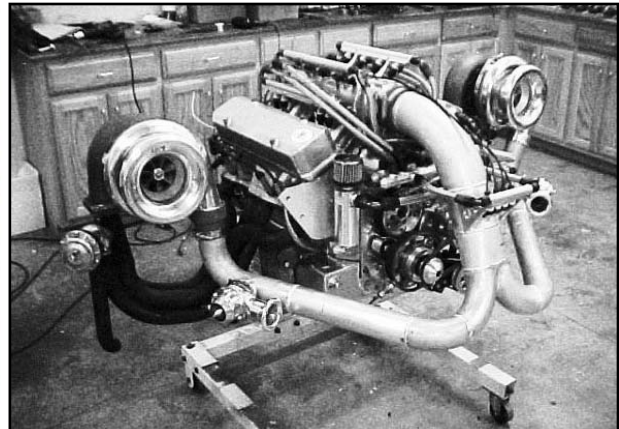
Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BLANKS (5/16)						
F1361	E	1.625	5/16	7.000	BLANK	25° Back angle
F1395	E	1.650	5/16	7.000	BLANK	25° Semi Tulip
F1384	E	2.000	5/16	7.000	BLANK	22° Tulip
F1393	I	2.250	5/16	7.000	BLANK	13° Back angle
F1398	E	2.000	5/16	7.250	BLANK	31° Tulip - Pro Stock
F0084	I	2.300	5/16	5.600	BLANK	26° Tulip
F1394	I	2.375	5/16	7.000	BLANK	13° Back angle
F1385	I	2.500	5/16	7.000	BLANK	13° Back angle
F1399	I	2.600	5/16	7.250	BLANK	12° Back angle - Pro Stock
BLANKS (.3135)						
F1769	I	2.250	.3135	6.000	BLANK	12° S. Flo. Lightweight. LS1 and LS7
BLANKS (11/32)						
F1376	E	1.625	11/32	7.000	BLANK	20° Semi Tulip
F1386	E	1.650	11/32	7.000	BLANK	30° Semi Tulip
F1306	E	1.650	11/32	7.000	BLANK	25° Tulip
F1373	E	1.650	11/32	7.000	BLANK	15° Back angle
F1336	E	1.800	11/32	7.000	BLANK	28° Tulip
F1388	E	1.900	11/32	7.000	BLANK	28° Tulip
F1378	E	1.940	11/32	7.000	BLANK	28° Tulip
F1383	E	2.000	11/32	7.000	BLANK	31° Tulip
F1397	E	2.000	11/32	7.000	BLANK	28° Tulip
F1783	E	2.000	11/32	7.500	BLANK	31° Tulip
F1396	E	2.200	11/32	7.000	BLANK	22° Tulip
F1392	I	2.125	11/32	7.000	BLANK	12° Back angle
F1387	I	2.150	11/32	7.000	BLANK	12° Back Angle
F1381	I	2.200	11/32	7.000	BLANK	12° Back Angle
F1335	I	2.250	11/32	7.000	BLANK	12° Back Angle
F1380	I	2.375	11/32	7.000	BLANK	12° Back Angle
F1374	I	2.400	11/32	5.760	BLANK	12° Back Angle
F1389	I	2.500	11/32	5.700	BLANK	15° Semi Tulip
F1369	I	2.500	11/32	6.300	BLANK	13° Back Angle
F1379	I	2.500	11/32	7.000	BLANK	25° Tulip-HEMI
F1382	I	2.500	11/32	7.000	BLANK	13° Back Angle
F1782	I	2.500	11/32	7.500	BLANK	13° Back Angle
F1337	I	2.600	11/32	7.000	BLANK	15° Semi Tulip
F1391	I	2.600	11/32	6.950	BLANK	25° Tulip
F1390	I	2.600	11/32	7.500	BLANK	13° Back Angle
F1790	I	2.700	11/32	7.500	BLANK	14° Back Angle

TITANIUM COMPETITION VALVES - BLANKS

TITANIUM COMPETITION VALVES - BLANKS

(BLANKS CUSTOM MACHINED)

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BLANKS (HARLEY DAVIDSON - DRAG RACE)						
F0085	E	1.940	5/16	6.500	BLANK	25° Tulip
F1384	E	2.000	5/16	7.000	BLANK	22° Tulip
F0084	I	2.300	5/16	6.500	BLANK	26° Tulip
F1383	E	2.000	11/32	7.000	BLANK	22° Tulip
F1379	I	2.500	11/32	7.000	BLANK	25° Tulip
BLANKS (METRIC) 4-5 mm						
F0426	E	26 mm	3.97mm	100mm	BLANK	20° Back angle. Flo. Hi Temp.
F0427	E	28 mm	3.97mm	100mm	BLANK	20° Back angle. Flo. Hi Temp.
F0432	I	30 mm	3.98mm	100mm	BLANK	17° Back angle. Flo.
F0433	I	32 mm	3.98mm	100mm	BLANK	17° Back angle. Flo.
F0430	E	26 mm	4.46mm	100mm	BLANK	22° Back angle. Flo. Hi Temp.
F0431	E	28 mm	4.46mm	100mm	BLANK	22° Back angle. Overcut Flo. Hi Temp.
F0428	I	32 mm	4.48mm	100mm	BLANK	20° Back angle. Flo.
F0429	I	34 mm	4.48mm	100mm	BLANK	20° Back angle. Flo.
BLANKS (METRIC) 5-6 mm						
F0404	E	30 mm	4.98mm	135mm	BLANK	20° Flo Hi Temp
F0403	I	35 mm	4.98mm	135mm	BLANK	17° Super Flo
F0255	E	33mm	5.47mm	135mm	BLANK	19° Flat Head
F0254	I	41mm	5.48mm	135mm	BLANK	15° Flat Head
F0042	E	32mm	5.5mm	145mm	BLANK	26° Tulip Flo
F0424	E	34mm	5.5mm	145mm	BLANK	30° Indy (IRL AURORA)
F0043	I	38mm	5.5mm	135mm	BLANK	26° Tulip Super Flo
F0423	I	41mm	5.5mm	145mm	BLANK	12° Indy (IRL AURORA)
F0235	E	34mm	5.95mm	135mm	BLANK	21° Flo Dish Head
F0234	I	40mm	5.97mm	135mm	BLANK	19° Super Flo-Flat Head
F0405	E	40mm	5.98mm	135mm	BLANK	16° Flo
F0407	E	40mm	5.98mm	135mm	BLANK	25° Flo
F0406	I	50mm	5.98mm	135mm	BLANK	12° Flo
BLANKS (METRIC) 7 mm						
F0040	E	40mm	7mm	135mm	BLANK	26° Tulip Super Flo-Pro Stock Motorcycle
F0400	E	40mm	7mm	135mm	BLANK	30° Tulip Super Flo-Pro Stock Motorcycle
F1770	E	1.650	7mm	7.000	BLANK	25° Tulip Super NASCAR. Hi Temp.
F0041	I	50mm	7mm	135mm	BLANK	25° Tulip Super Flo-Pro Stock Motorcycle
F0056	I	50mm	7mm	135mm	BLANK	15° Super Flo-Pro Stock Motorcycle
F0420	I	50mm	7mm	135mm	BLANK	19° Super Flo-Pro Stock Motorcycle
F1759	I	2.200	7mm	7.000	BLANK	12° Dish Head-Nascar Hi Temp
F0422	E	32.5mm	7.095mm	145mm	BLANK	30° INDY RL AURORA
F0421	I	39mm	7.1mm	145mm	BLANK	19° INDY RL AURORA
BLANKS (METRIC) 8 mm						
F1372	E	40mm	8mm	145mm	BLANK	26° Tulip
F1370	I	50mm	8mm	145mm	BLANK	19° Semi Tulip



2886 HP Aluminum Pontiac engine in Rodney Butler's GTO. Uses Ferrea Titanium Valves.



Pro Stock Snoopy, competing in the Dutch Championship Tractor Pulling, with heads by BFS-Holland Martin Wolters uses Ferrea Titanium Intake and Super Alloy Exhaust Valves to run at app. 6000 RPM, reaching 2000° F with boost at least 90 psi. single turbo.



Team Rattle'n Hum / BFS Martin Wolters. The Worlds only Two Wheel Drive Tractor Pulling Team by students of Agricultural High School Dronten in Holland. Uses Ferrea Titanium Intake and Exhaust Valves in the 500 cu. Blown Big Chief engine.

SUPER ALLOY VALVES

Super Alloy... THE NEXT GENERATION OF VALVE TECHNOLOGY

Ferrea super alloy valves...represent the highest level of sophistication in valve technology. We proudly introduced the next generation of extreme heat resistant valves, specifically developed to withstand the brutal punishment, which is setting the standards for all Supercharged, Turbocharged, Nitrous Oxide, Off-Shore Marine or 9.0 compression restricted race motors. Many Top Fuel Dragster and Funny Car teams can confirm the performance and reliability of these new valves which are now available for many engine combinations including, NASCAR, Sprint Car, Drag Race, and Off-Shore Marine applications.



We have expanded our offerings for the **Top/Fuel and Funny/Car** applications with a **Super Alloy Valve** available for every after-market head in both 11/32 & 3/8-stem sizes.

We are also reaching a fast growing segment in the *Import Cars* with the introduction of our New **Super Alloy Import-Tuner Valve program**. These valves are specially designed for use in racing engines that are subjected to extreme exhaust temperatures such as **turbo, nitrous, or supercharged racing engines**. No other valve on the market has been designed specifically for these applications. Once again **Ferrea** is setting the pace.

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET BIG BLOCK (11/32)						
F1261P	E	1.880	11/32	5.450	.250	22° Super Flo. GM/Edelbrock. Super Alloy
F1271P	E	1.880	11/32	5.450	.250	22° Super Flo. GM/Edelbrock. Light weight. Super Alloy
F1270P	E	1.900	11/32	5.450	.250	22° Flo-Marine/Drag-Sup Alloy-BBC
F1216P	E	1.920	11/32	5.425	.250	13° Flo-Hi Temp Special Alloy-BBC
F1260P	E	1.940	11/32	5.450	.250	22° Flo-Marine/Drag-Sup Alloy-BBC
CHEVROLET BIG BLOCK (3/8)						
F2120P	E	1.890	3/8	5.400	.225	22° Tulip Flo-Super Alloy-Marine application-BBC
F2121P	E	1.940	3/8	5.400	.225	22° Tulip Flo-Super Alloy-Marine application-BBC
CHEVROLET SMALL BLOCK (7 MM)						
F2212P	E	1.600	7 mm	5.010	.290	24° Flo. Ultra Light - Super Alloy, Radial Groove
F2214P	E	1.600	7 mm	5.010	.290	12° Flo. Ultra Light - Super Alloy, Radial Groove



Brent Hajek 2008 5.4-liter Ford Mustang E85-fueled race car, with driver Danny Thompson, broke the previous Blown Fuel Altered Land Speed Record at 251.9 mph. Engines builder Dick Esch from More Power uses Ferrea Racing special custom Super Alloy Valves to build this powerful engine.

SUPER ALLOY VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET SMALL BLOCK (5/16)						
F1474P	E	1.600	5/16	5.380	.290	12° NASCAR Super Alloy. +.400
F2305P	E	1.600	5/16	5.450	.250	14° Flo-Hi Temp-SBC 18°. +.500
F1134P	E	1.650	5/16	5.010	.250	12° Flo-NASCAR-Hi Temp-Inconel. +.100
F1475P	E	1.650	5/16	6.300	BLANK	12° Dish Head. Super Alloy
F1177P	E	1.650	5/16	7.500	BLANK	12° Hi Temp Special Alloy-BLANKS
F1197P	E	1.800	5/16	7.000	BLANK	24° Tulip. HiTe.Finished.No groove-BLANKS
CHEVROLET SMALL BLOCK (23°, #12 & 18° NASCAR HEADS)						
F1476P	E	1.600	11/32	4.960	.250	12° Super Flo. Super Alloy. +.050
F1479P	E	1.600	11/32	5.060	.250	12° Super Flo. Super Alloy. +.150
F1460P	E	1.600	7mm	5.160	.290	12° Super Alloy. Rad Groove. 23°. +.200
F1463P	E	1.600	7mm	5.160	.290	24° Tulip. Super Alloy. Rad Groove. 23°. +.200
F1466P	E	1.600	7mm	5.160	.290	12° Super Alloy. 23°. +.200
F1469P	E	1.600	7mm	5.160	.290	24° Tulip. Super Alloy. 23°. +.200
F1194P	E	1.600	11/32	5.160	.250	12° Sup Flo-Brodix Pon-HiTe Alloy. +.250
F1480P	E	1.600	11/32	5.160	.250	12° Super Flo. Super Alloy. 23°. +.250
F1477P	E	1.600	11/32	5.300	.250	12° Super Flo. Super Alloy. #12
F1484P	E	1.600	11/32	5.350	.250	12° Super Flo. Super Alloy. #12 & 18°. +.400
F1461P	E	1.600	7mm	5.380	.290	12° Super Alloy. Rad Groove. #12 & 18°. +.400
F1464P	E	1.600	7mm	5.380	.290	24° Tulip. Super Alloy. Rad Groove. #12 & 18°. +.400
F1467P	E	1.600	7mm	5.380	.290	12° NASCAR Super Alloy
F1474P	E	1.600	5/16	5.380	.290	12° Super Alloy. #12 & 18°. +.400
F1485P	E	1.600	11/32	5.460	.250	12° Super Flo. Super Alloy. 18°. +.500
F2202P	E	1.600	11/32	5.460	.250	15° Super Flo-Hi Temp. 18°. +.500
F1471P	E	1.600	7mm	5.550	.290	24° Tulip. Super Alloy. 18°. +.600
F1462P	E	1.600	7mm	5.550	.290	12° Super Alloy. Rad Groove. 18°. +.600
F1465P	E	1.600	7mm	5.550	.290	24° Tulip. Super Alloy. Rad Groove. 18°. +.600
F1468P	E	1.600	7mm	5.550	.290	12° Super Alloy. 18°. +.600
F1482P	E	1.600	11/32	5.560	.250	12° Super Flo. Super Alloy. 18°. +.600
F1473P	E	1.600	7mm	6.300	BLANK	24° Tulip. Super Alloy
F1195P	E	1.625	11/32	5.160	.250	12° Super Flo-Hi Temp. +.200
F1481P	E	1.625	11/32	5.350	.250	12° Super Flo. Super Alloy. #12 & 18°. +.400
F1178P	E	1.625	11/32	5.460	.250	12° Sup Flo-NASCAR TRUCKS-HiTe Alloy. 18°. +.500
F1478P	E	1.625	11/32	5.460	.250	12° Super Flo. Super Alloy. 18°. +.500
F1483P	E	1.625	11/32	5.560	.250	12° Super Flo. Super Alloy. 18°. +.600
F1472P	E	1.625	7mm	6.300	BLANK	12° Super Alloy
F1486P	E	1.625	7mm	6.300	BLANK	24° Tulip. Super Alloy
F1475P	E	1.650	5/16	6.300	BLANK	12° Dish Head. Super Alloy
F1487P	E	1.650	5/16	6.300	BLANK	24° Tulip. Super Alloy
F1184P	E	1.650	11/32	7.500	BLANK	12° HiTe Alloy. Finished.No groove-BLANKS
CHEVROLET SMALL BLOCK - LS1						
F1894P	E	1.550	.313	4.915	.160	15° S.Flo.Rad.Grov.Sup.Alloy. Turbo Application
F1893P	E	1.600	.313	4.915	.160	15° S.Flo.Rad.Grov.Sup.Alloy. Turbo Application
F1892P	E	1.600	.313	4.915	.160	24° S.Flo.Rad.Grov.Sup.Alloy. Turbo Application
CHEVROLET SMALL BLOCK - LS7						
F1598P	E	1.615	.313	5.227	.290	15° S.Flo.Rad.Grov.Sup.Alloy. Turbo Application
F1597P	E	1.615	.313	5.227	.290	24° S.Flo.Rad.Grov.Sup.Alloy. Turbo Application
CHRYSLER HEMI - DART/BAE/AJR HEADS (11/32)						
F1526P	E	1.900	11/32	5.019	.250	22° Flo-DART/55° Seat-Turbo/T Fuel/Funny Car-Hi Temp Super Alloy-CHRY HEMI



Snake Racing U.S. Smokeless Tobacco Co. dragster driven by Larry Dixon, 2002 and 2003 NHRA Top Fuel Champion, 42 career wins. First driver to 4.5 seconds, uses Ferrea Super Alloy exhaust valves.

SUPER ALLOY VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHRYSLER HEMI - DART/BAE/AJR HEADS (3/8)						
F1527P	E	1.950	11/32	5.019	.250	22° Flo-DART/BAE/AJR-50° Seat-Turbo/T Fuel/Funny Car-Hi Temp (Super Alloy)
F1535P	E	1.950	11/32	5.019	.250	22° Flo - 55° Seat (Super Alloy) T/F-F/C
F1506P	E	2.000	11/32	5.019	.250	22° Flo-DART/BAE/AJR-45° Seat-Turbo/T Fuel/Funny Car-Hi Temp Super Alloy-CHRY HEMI
F1509P	E	2.000	11/32	7.000	BLANK	22° Flo-DART/45° Seat-Turbo/T Fuel/Funny Car-Hi Temp Super Alloy-CHRY HEMI
F1531P	E	1.900	3/8	5.019	.250	22° Flo - 55° Seat (Super Alloy) T/F-F/C
F1533P	E	1.900	3/8	5.119	.250	22° Flo - 55° Seat (Super Alloy) T/F-F/C
F1537P	E	1.925	3/8	4.990	.250	22° Flo. 55° Seat. - Super Alloy. T/F - F/C
F1536P	E	1.925	3/8	5.119	.250	22° Flo. 55° Seat / 38° Backcut. Sup. Alloy. T/F-F/C
F1571P	E	1.925	3/8	5.119	.250	22° Flo. 55° Seat. Radial Groove. Sup Alloy. T/F-F/C
F1572P	E	1.925	3/8	5.219	BLANK	22° Flo. 55° Seat / 38° Backcut. - Sup Alloy. T/F-F/C
F1532P	E	1.950	3/8	5.019	.250	22° Flo - 55° Seat (Super Alloy) T/F-F/C
F1570P	E	1.950	3/8	5.019	.250	22° Flo. 55° Seat. Radial Groove. Sup Alloy. T/F-F/C
F1529P	E	1.950	3/8	5.119	.250	22° Flo - 50° Seat (Super Alloy) Funny Car/Top Fuel
F1534P	E	1.950	3/8	5.119	.250	22° Flo - 55° Seat (Super Alloy) T/F-F/C
F1530P	E	1.950	3/8	5.170	BLANK	22° Flo - 55° Seat (Super Alloy) T/F-F/C
F1507P	E	2.000	3/8	5.019	.250	22° Flo. Super Alloy.Funny Car/Top Fuel-CHRY HEMI
F1525P	E	2.000	3/8	5.119	BLANK	22° Flo - 45° Seat (Super Alloy) T/F-F/C
F1528P	E	2.000	3/8	5.119	.250	22° Flo-DART/55° Seat-Turbo/T Fuel/Funny Car-Hi Temp (Super Alloy)
F1511P	E	2.100	3/8	7.000	BLANK	22° Flo.-45° Seat-Super Alloy. Funny Car/Top Fuel-CHRY HEMI
FORD 302 - 351 (YATES NASCAR HEAD)						
F1467P	E	1.600	7mm	5.380	.290	12° NASCAR Super Alloy
F1470P	E	1.600	7mm	5.380	.290	24° Tulip NASCAR Super Alloy
F1474P	E	1.600	5/16	5.380	.290	12° NASCAR Super Alloy
F1472P	E	1.625	7mm	6.300	BLANK	12° NASCAR Super Alloy
FORD 4.6L/5.7 - SOHC V8 - 24 VALVES - 2005-2007						
F1188P	E	1.474	.235	4.580	.472	21° Flo. Stk siz. Super Alloy. Single Groove. 1 Valve required
F1189P	E	1.553	.235	4.580	.472	21° Flo. Oversize. Super Alloy. Single Groove. 1 Valve required
Tech Note: These Ferrea Racing Valves come with single radial grooves.						
These valves required Ferrea Valve Spring #10102, Ferrea Titanium #E11069 and both						
Ferrea Spring Seat Locator #SL1055 and Factory supply Spring Seat Locator and Ferrea Valve Lock #K10077						
For racing applications Ferrea Racing does not recommend the use of triple radial groove valves.						
FORD GT 5.4L - 32 VALVES - 2005-2007						
F2164P	E	1.260	.275	4.635	.390	15° Flo. Super Alloy. 3 Radial Groove. Stock



In memory of Scott Kalitta, a two-time NHRA POWERade Drag Racing Series Top Fuel champion and one of only 14 drivers in NHRA history to win in both premier nitro categories, earned 18 victories during his career. Scott was an ambassador to our sport, and will be sorrowfully missed.

SUPER ALLOY VALVES - BLANKS

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BLANKS (5/16) ("REQUIRE LASH CAPS or HARD TIPS")						
F1475P	E	1.650	5/16	6.300	BLANK	12° Dish Head. NASCAR Super Alloy
F1487P	E	1.650	5/16	6.300	BLANK	24° Tulip. Super Alloy
F1177P	E	1.650	5/16	7.500	BLANK	12° Hi Temp Special Alloy
F1197P	E	1.800	5/16	7.000	BLANK	24° Tulip. HiTe.Finished.No groove
BLANKS (11/32) ("REQUIRE LASH CAPS or HARD TIPS")						
F1590P	E	1.650	11/32	7.000	BLANK	23.5° Flo. Super Alloy. Turbo Applications
F1184P	E	1.650	11/32	7.500	BLANK	12° HiTe Alloy. Finished.No groove
F1196P	E	1.800	11/32	7.000	BLANK	24° Tulip.Hi Temp Special Alloy
F1589P	E	1.800	11/32	7.000	BLANK	23.5° Flo. Super Alloy. Turbo Applications
F1509P	E	2.000	11/32	7.000	BLANK	22° Tulip Pro-T/F-F/C. Super Alloy
BLANKS (3/8) ("REQUIRE LASH CAPS or HARD TIPS")						
F1572P	E	1.925	3/8	5.219	BLANK	22° Flo. 55° Seat / 38° Backcut. - Sup Alloy. T/F-F/C
F1530P	E	1.950	3/8	5.170	BLANK	22° Flo - 55° Seat (Super Alloy) T/F-F/C
F1525P	E	2.000	3/8	5.119	BLANK	22° Flo - 45° Seat (Super Alloy) T/F-F/C
F1511P	E	2.100	3/8	7.000	BLANK	22° Flo. (Super Alloy).Funny Car/Top Fuel
BLANKS 5-6 MM ("REQUIRE LASH CAPS or HARD TIPS")						
F1996P	E	38 mm	5.975mm	140.00 mm	BLANK	21° Flo. Super Alloy. Turbo application
BLANKS (7 mm) ("REQUIRE LASH CAPS or HARD TIPS")						
F0345	E	33mm	7mm	135mm	BLANK	22° Flo. Super Alloy. No groove. No tip
F0346	E	39mm	7mm	135mm	BLANK	22° Flo. Super Alloy. No groove. No tip
F1473P	E	1.600	7mm	6.300	BLANK	24° Tulip. Super Alloy
F1472P	E	1.625	7mm	6.300	BLANK	12° NASCAR Super Alloy-FORD 302-351 (YATES HEAD)
F1486P	E	1.625	7mm	6.300	BLANK	24° Tulip. Super Alloy
F1493P	E	1.650	7mm	6.300	BLANK	24° Tulip. Super Alloy
BLANKS (.313/8 mm) ("REQUIRE LASH CAPS or HARD TIPS")						
F2159P	E	1.650	.313	6.000	BLANK	15° Flo. Super Alloy . GM LS1/LS7/L92
F1599P	E	1.650	.313	6.000	BLANK	24° Flo. Super Alloy . GM LS1/LS7/L92



Brendan Murry's "Running Wild" AA/Fuel Dragster. 6 time World Champion. The World's quickest big-block Chevrolet: 5.879 @ 246.17. Uses Ferrea Super Alloy Exhaust Valves.

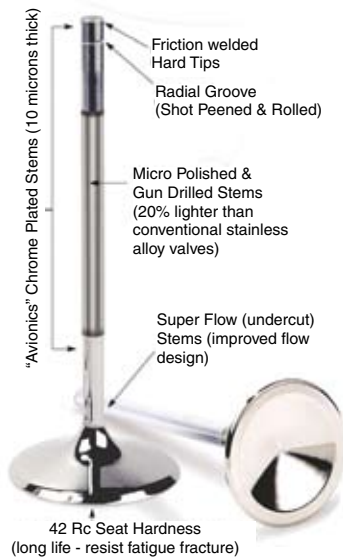


Tony Bartone and Jim Dunn Racing's Chevy Monte Carlo Funny Car. Uses Ferrea Titanium and Super Alloy Valves.

COMPETITION PLUS HOLLOW STEM VALVES

One important factor to take into consideration to increase the engine's rpm's, is the valve train weight. Of course, being the valve a main component, the design has to be perfected to accomplish the weight reduction to allow higher rpm's.

Ferrea's latest contribution to this area is the introduction of its **Lightweight Hollow Stem Valve**. We develop a **manufacturing process** that **gun drill** and **micro polish** the stem to achieve a valve reduction in weight of 20 percent compared to a conventional stainless steel solid-stem valve. The valves also feature **friction welded tips**, **radial grooves**, **avionics chrome plated stems**, **seat hardness** up to 42 HRc and **super flo** to improve flow design.



Eric Mass with the Wissota late model by Pauls Repair & Machine reached 29 top 5's with over 15 feature wins in 2006-2007. Uses Ferrea Hollow Stem Valves and valve train components.

Part N ^o	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET, CHRYSLER, FORD (BIG BLOCK 11/32)						
F1051P	E	1.880	11/32	5.450	.250	22° Flo. Radial Groove. Special Alloy. +.100
F1061P	I	2.190	11/32	5.300	.250	12° Super Flo. Radial Groove. Special Alloy. +.050
F1048P	I	2.250	11/32	5.271	.250	12° Super Flo. Radial Groove. Special Alloy. +.050
F1049P	I	2.250	11/32	5.350	.250	12° Super Flo. Radial Groove. Special Alloy. +.100
F1050P	I	2.250	11/32	5.471	.250	12° Super Flo. Radial Groove. Special Alloy.+.250
CHEVROLET, CHRYSLER, FORD (BIG BLOCK 3/8)						
F1060P	E	1.880	3/8	5.400	.225	22° Super Flo. Special Alloy. +.050
F1066P	E	1.900	3/8	5.019	.250	22° Flo. 55° Seat T/F-F/C Super Alloy.
F1064P	E	1.950	3/8	5.019	.250	22° Flo. 55° Seat T/F-F/C Super Alloy.
F1065P	E	1.950	3/8	5.119	.250	22° Flo. 55° Seat T/F-F/C Super Alloy.
F1062P	I	2.190	3/8	5.300	.225	12° Super Flo. Special Alloy. +.050
F1030P	I	2.250	3/8	5.300	.225	12° Super Flo. Special Alloy. +.050
CHEVROLET, CHRYSLER, FORD (SMALL BLOCK 11/32)						
F1089P	E	1.500	11/32	4.960	.250	14° Super Flo. Radial Groove. Special Alloy. +.050
F1094P	E	1.500	11/32	4.960	.250	14° Flo. Radial Groove. Special Alloy. +.050
F1014P	E	1.600	11/32	4.960	.250	24° Flo. Radial Groove. Special Alloy. +.050
F1096P	E	1.600	11/32	4.960	.250	14° Flo. Radial Groove. Special Alloy. +.050
F1024P	E	1.600	11/32	4.960	.250	14° Super Flo. Radial Groove. Special Alloy. +.050
F1012P	E	1.600	11/32	5.010	.250	24° Flo. Radial Groove. Special Alloy. +.100

COMPETITION PLUS HOLLOW STEM VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET, CHRYSLER, FORD (SMALL BLOCK 11/32)						
F1097P	E	1.600	11/32	5.010	.250	14° Flo. Radial Groove. Special Alloy +.100
F1092P	E	1.600	11/32	5.060	.250	14° Super Flo. Radial Groove. Special Alloy +.150
F1093P	E	1.600	11/32	5.060	.250	24° Super Flo. Radial Groove. Special Alloy +.150
F2002P	E	1.600	11/32	5.160	.250	14° Super Flo. Radial Groove. Special Alloy +.250
F1011P	E	1.625	11/32	4.960	.250	24° Super Flo. Radial Groove. Special Alloy +.050
F1025P	E	1.625	11/32	5.010	.250	14° Super Flo. Radial Groove. Special Alloy +.100
F1010P	E	1.625	11/32	5.060	.250	24° Super Flo. Radial Groove. Special Alloy +.150
F1041P	E	1.625	11/32	5.060	.250	14° Super Flo. Radial Groove. Special Alloy +.150
F1002P	E	1.625	11/32	5.160	.250	24° Super Flo. Radial Groove. Special Alloy +.250
F1042P	E	1.625	11/32	5.160	.250	14° Super Flo. Radial Groove. Special Alloy +.250
F1090P	I	1.940	11/32	4.960	.250	12° Super Flo. Radial Groove. Special Alloy +.050
F1095P	I	1.940	11/32	4.960	.250	12° Flo. Radial Groove. Special Alloy +.050
F1005P	I	2.020	11/32	4.960	.250	12° Super Flo. Radial Groove. Special Alloy +.050
F1006P	I	2.020	11/32	4.960	.250	12° Flo. Radial Groove. Special Alloy +.050
F1007P	I	2.020	11/32	5.010	.250	12° Flo. Radial Groove. Special Alloy +.100
F1004P	I	2.020	11/32	5.060	.250	12° Super Flo. Radial Groove. Special Alloy +.150
F1003P	I	2.020	11/32	5.160	.250	12° Super Flo. Radial Groove. Special Alloy +.250
F1068P	I	2.055	11/32	4.960	.250	12° Super Flo. Radial Groove. Special Alloy +.050
F1063P	I	2.055	11/32	5.010	.250	12° Super Flo. Radial Groove. Special Alloy +.100
F1067P	I	2.055	11/32	5.160	.250	12° Super Flo. Radial Groove. Special Alloy +.250
F1009P	I	2.080	11/32	4.960	.250	12° Super Flo. Radial Groove. Special Alloy +.050
F1046P	I	2.080	11/32	5.010	.250	12° Super Flo. Radial Groove. Special Alloy +.100
F1008P	I	2.080	11/32	5.060	.250	12° Super Flo. Radial Groove. Special Alloy +.150
F1001P	I	2.080	11/32	5.160	.250	12° Super Flo. Radial Groove. Special Alloy +.250
F1032P	I	2.125	11/32	5.060	.250	12° Super Flo. Radial Groove. Special Alloy +.150
F1033P	I	2.125	11/32	5.160	.250	12° Super Flo. Radial Groove. Special Alloy +.150
CHEVROLET SMALL BLOCK - LS1						
F1021P	E	1.600	.313	4.915	.160	24° Tulip S.Flo.Rad.Grov.Spec.Alloy. Stock
F1045P	E	1.600	.313	5.015	.160	24° Tulip S.Flo.Rad.Grov.Spec.Alloy. +.100
F1098P	E	1.625	.313	4.915	.160	24° Super Flo. Radial Groove. Special Alloy. Stock
F1069P	E	1.625	.313	5.015	.160	24° Tulip S.Flo.Rad.Grov.Spec.Alloy. +.100
F1022P	I	2.020	.3135	4.900	.160	12° Super Flo. Radial Groove. Special Alloy. Stock
F1043P	I	2.055	.3135	4.900	.160	12° Super Flo. Radial Groove. Special Alloy. Stock
F1044P	I	2.055	.3135	5.000	.160	12° Super Flo. Radial Groove. Special Alloy. +.100
F1047P	I	2.080	.3135	5.000	.160	12° Super Flo. Radial Groove. Special Alloy. +.100
F1091P	I	2.100	.3135	4.900	.160	12° Super Flo. Radial Groove. Special Alloy Stock
CHEVROLET SMALL BLOCK - LS7						
F2014P	I	2.200	.3135	5.180	.290	10° S Flo. Backcut 30° Radius Groove. Special Alloy. Stk size
CHEVROLET SMALL BLOCK - L92						
F2010P	I	2.165	.3135	4.900	.160	12° S Flo. Backcut 30° Radius Groove. Special Alloy Stk size
F2011P	I	2.200	.3135	4.900	.160	12° S Flo. Backcut 30° Radius Groove. Special Alloy



Shawn Willis from Western Performance and Machine, uses Ferrea's Lightweight Pro Solid Lifters and Ferrea's Hollow Stem Valves in the number # 11 Monte Carlos SS.

COMPETITION PLUS VALVES

Ferrea Competition Plus Valves have built a reputation as the industry's most reliable extreme duty valve. We, at **Ferrea**, are dedicated to providing the absolute best product on the market.

Our extensive R & D programs provide technological gains, which are implemented in each of our competition plus valves. They are engineered for high rpm, high horsepower racing engines, and are chosen by many top NASCAR, Drag, and Oval & Sprint Car-racing teams.

To manufacture the valves we use special aerospace quality alloys, as described on page 9, including the EV8-Z18, which provides high tensile strength. An exclusive two-step slow forging process ensures proper grain flow and virtually eliminates any damage to the material structure. The valves are then heat-treated and stress-relieved over a 48-hour period, which is the crucial base of our molecular integrity. These valves feature avionics-quality hard chrome along with a specially applied hard tip. Our engineering staff at **Ferrea** spends countless hours conducting flow bench tests to achieve an optimum balance of flow, velocity and efficiency in the design of this valve. As a result, these valves incorporate smoother radiuses and unique undercuts. These exclusive features are what make the **Ferrea** Competition Plus Valves unequalled in performance and reliability!



Ferrea is once again setting the pace with its **Competition Plus PQ Series Exhaust Valves**, the next generation of exhaust valve technology.

Due to the evolution in today's competition engine applications, **temperatures are increasing** and, as a result, **longevity is decreasing**. Therefore, **Ferrea** is pleased to introduce our NEW! **Competition Plus PQ Series Valve**.



This is a next generation exhaust valve made of an **Ultra High Strength, High Temp Nickel Stainless Steel Alloy**. **Ferrea** first used this material with great success, during the development of a very high stress, high temp endurance racing program.

This **PQ Series** next generation exhaust valve material will progressively replace Competition Plus Series valves as applications evolve and the material becomes necessary.

Listed below are some qualities of the Next Generation Exhaust Valve material:

- Tensile strength increased by 20% at high temperature
- Fatigue resistance increased by 20%
- Valve seat life increased by 25%

COMPETITION PLUS VALVES

COMPETITION PLUS VALVES

Part No	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BRIGGS & STRATTON						
F0072	E	1.128	.247	3.845	.235	15° Super Flo-Go Kart & Jr. Dragster
F0073	E	1.167	.247	3.845	.235	15° Super Flo-Go Kart & Jr. Dragster
F0070	I	1.252	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
F0071	I	1.291	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
F0074	I	1.378	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
F0075	I	1.400	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
F0076	I	1.500	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
CHEVROLET BIG BLOCK (5/16)						
F1230P	E	1.900	5/16	5.425	.250	15° Flo. +.100
F1244P	I	2.250	5/16	5.325	.250	12° Flo. +.100
F1240P	I	2.300	5/16	5.350	.250	12° Flo. +.100
CHEVROLET BIG BLOCK (11/32)						
F1201P	E	1.880	11/32	5.425	.250	15° Super Flo. +.100
F1261P	E	1.880	11/32	5.450	.250	22° Super Flo. GM/Edelbrock (Super Alloy)
F1271P	E	1.880	11/32	5.450	.250	22° Super Flo. GM/Edelbrock. Light weight. Super Alloy
F1206P	E	1.880	11/32	5.500	.250	15° Super Flo
F1231P	E	1.900	11/32	5.425	.250	18° Tulip Flo. +.100
F1267P	E	1.900	11/32	5.425	.250	14° BB5 Sonny Brodix
F1270P	E	1.900	11/32	5.450	.250	22° Flo-Marine/Drag-(Super Alloy)
F1276P	E	1.900	11/32	5.450	.250	22° Super Flo. Light weight. Super Alloy
F1269P	E	1.900	11/32	5.500	.250	22° BB5 Sonny Brodix
F1272P	E	1.900	11/32	5.525	.250	22° Super Flo. Light weight. Super Alloy
F1264P	E	1.900	11/32	6.240	.250	15° Flo
F1216P	E	1.920	11/32	5.425	.250	14° Flo-Hi Temp Special Alloy. +.100
F1215P	E	1.920	11/32	5.450	.250	14° Super Flo. GM/Edelbrock
F1202P	E	1.940	11/32	5.425	.250	15° Super Flo. +.100
F1260P	E	1.940	11/32	5.450	.250	22° Flo-Marine/Drag-(Super Alloy)
F1268P	E	1.940	11/32	5.500	.250	22° BB5 Sonny Brodix
F1211P	I	2.190	11/32	5.300	.250	12° Super Flo. +.050
F1226P	I	2.190	11/32	5.346	.250	12° Super Flo. +.100
F1212P	I	2.250	11/32	5.300	.250	12° Super Flo. +.050
F1223P	I	2.250	11/32	5.350	.250	12° Super Flo. +.100
F1232P	I	2.250	11/32	5.471	.250	12° Super Flo. +.250
F1239P	I	2.250	11/32	5.625	.250	12° Super Flo. GM/Edelbrock/Brodix BB5. +.400
F1214P	I	2.300	11/32	5.421	.250	12° Super Flo. +.200
F1219P	I	2.300	11/32	5.471	.250	12° Super Flo. +.250
F1224P	I	2.300	11/32	5.525	.250	12° Super Flo. BB5 Sonny Brodix. +.300
F1234P	I	2.300	11/32	5.625	.250	12° Sup Flo. GM/Edelbrock/Brodix BB5. +.400
F1225P	I	2.350	11/32	5.471	.250	12° Super Flo. +.250
F2264P	I	2.350	11/32	5.625	.250	12° BB5 Sonny Brodix. +.400



Hopp Racing Unlimited Light Hydroplane driven by Greg Hopp: National High Points Champion 2003-2006, 2008, uses Ferrea Competition Plus Intake and Exhaust Valves.

COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET BIG BLOCK (3/8)						
F2101P	E	1.880	3/8	5.400	.225	15° Super Flo. +.050
F2103P	E	1.880	3/8	5.400	.225	15° Flo. +.050
F2107P	E	1.880	3/8	5.400	.225	22° Tulip Flo-Marine Normally Aspirated / Dry Exhaust
F2123P	E	1.880	3/8	5.450	.225	15° Super Flo. +.100
F2120P	E	1.890	3/8	5.400	.225	22° Tulip Flo-Inconel-Marine application. +.050
F2105P	E	1.910	3/8	5.400	.225	Super Flo-Marine Normally Aspirated / Dry Exhaust.+050
F2109P	E	1.920	3/8	5.400	.225	22° Tulip Flo-Marine application. +.050
F2121P	E	1.940	3/8	5.400	.225	22° Tulip Flo-Inconel-Marine application. +.050
F2102P	E	1.940	3/8	5.400	.225	15° Super Flo. +.050
F2124P	E	1.940	3/8	5.450	.225	22° Tulip Flo-Marine Normally Aspirated / Dry Exhaust.+100
F2111P	I	2.190	3/8	5.271	.225	12° Super Flo. +.050
F2114P	I	2.190	3/8	5.271	.225	12° Flo. +.050
F2119P	I	2.190	3/8	5.350	.225	12° Super Flo. +.130
F2112P	I	2.250	3/8	5.271	.225	12° Super Flo. +.050
F2115P	I	2.250	3/8	5.350	.225	12° Super Flo. +.130
F2117P	I	2.250	3/8	5.421	.225	12° Super Flo. +.200
F2118P	I	2.300	3/8	5.421	.225	12° Super Flo. +.200
F2116P	I	2.325	3/8	5.421	.225	12° Super Flo. +.200
CHEVROLET SMALL BLOCK (7 MM)						
F2212P	E	1.600	7 mm	5.010	.290	24° Flo. Ultra Light - Super Alloy. Radial Groove
F2214P	E	1.600	7 mm	5.010	.290	12° Flo. Ultra Light - Super Alloy. Radial Groove
F2206PQ	I	2.020	7 mm	5.010	.290	12° Flo. Ultra Light Special Alloy. Radial Groove
F2210P	I	2.080	7 mm	4.960	.250	12° Flo. Ultra Light Special Alloy. Radial Groove
F2211P	I	2.080	7 mm	5.160	.250	12° Flo. Ultra Light Special Alloy. Radial Groove
CHEVROLET SMALL BLOCK (5/16)						
F2300P	E	1.600	5/16	5.010	.250	14° Flo. +.100
F2301P	E	1.600	5/16	5.060	.250	14° Flo. +.150
F2302P	E	1.600	5/16	5.160	.250	14° Super Flo-Brodix PONTIAC. +.200
F2303P	E	1.600	5/16	5.350	.250	14° Super Flo-Brodix #12. +.400
F1474P	E	1.600	5/16	5.380	.290	12° NASCAR (Super Alloy) FORD 302-351/Yates Head
F2304P	E	1.600	5/16	5.450	.250	14° Super Flo-Brodix/Dart 18°. +.500
F2305P	E	1.600	5/16	5.450	.250	14° Flo-Hi Temp-Brodix/Dart 18°. +.500
F1150P	E	1.625	5/16	5.010	.250	14° Flo. +.100
F1173P	E	1.625	5/16	5.160	.250	14° Super Flo-Brodix PONTIAC. +.200
F1176P	E	1.625	5/16	5.350	.250	14° Super Flo-Brodix #12. +.400
F1174P	E	1.625	5/16	5.450	.250	14° Super Flo-Brodix/Dart 18°. +.500
F1134P	E	1.650	5/16	5.010	.250	12° Flo-NASCAR-Hi Temp-Inconel. +.100
F1151P	E	1.650	5/16	5.060	.250	14° Flo. +.150
F1475P	E	1.650	5/16	6.300	BLANK	12° Dish Head.(Super Alloy)
F1166P	I	2.020	5/16	5.010	.250	12° Super Flo. +.100
F2340P	I	2.080	5/16	5.010	.250	12° Flo. +.100
F2341P	I	2.080	5/16	5.060	.250	12° Flo. +.150
F2342P	I	2.080	5/16	5.160	.250	12° Super Flo-Brodix PONTIAC. +.200
F2343P	I	2.100	5/16	5.010	.250	12° Flo. +.100
F1168P	I	2.100	5/16	5.160	.250	12° Super Flo-Brodix PONTIAC. +.200
F2344P	I	2.100	5/16	5.275	.250	12° Super Flo-Yates Head
F2345P	I	2.100	5/16	5.450	.250	12° Super Flo-Brodix/Dart 18°. +.500
F1241P	I	2.125	5/16	5.010	.250	12° Flo. +.100
F1167P	I	2.125	5/16	5.160	.250	12° Super Flo. +.250
F1242P	I	2.125	5/16	5.275	.250	12° Flo-Yates Head
F1175P	I	2.125	5/16	5.450	.250	12° Super Flo-Brodix/Dart 18°. +.500
CHEVROLET SMALL BLOCK (11/32)						
F1882P	E	1.525	11/32	5.690	.250	20° Flo
F1145P	E	1.560	11/32	4.960	.250	14° Super Flo-Double Groove. +.050
F1100PQ	E	1.600	11/32	4.960	.250	14° Super Flo. +.050. Special Alloy
F1104PQ	E	1.600	11/32	4.960	.250	14° Flo. +.050. Special Alloy
F1476P	E	1.600	11/32	4.960	.250	12° Super Flo. (Super Alloy). +.050
F2217P	E	1.600	11/32	4.960	.250	9° Flat Head +.050
F2247P	E	1.600	11/32	4.960	.250	24° Super Flo. +.050 Light weight. Special Alloy
F2200P	E	1.600	11/32	4.980	.250	16° Semi Tulip-TFS FORD. Stk.
F1102PQ	E	1.600	11/32	5.010	.250	14° Super Flo. +.100. Special Alloy
F1926P	E	1.600	11/32	5.010	.250	24° Tullip Flo. +.100
F2248P	E	1.600	11/32	5.010	.250	24° Super Flo. +.100. Light weight. Special Alloy.
F1148PQ	E	1.600	11/32	5.060	.250	14° Super Flo. +.150. Special Alloy
F1187P	E	1.600	11/32	5.060	.250	19° Tulip Super Flo. +.150
F1479P	E	1.600	11/32	5.060	.250	12° Super Flo. (Super Alloy). +.150
F1810P	E	1.600	11/32	5.060	.250	24° Tulip Flo. +.150
F1179P	E	1.600	11/32	5.110	.250	14° Super Flo. +.200
F1140PQ	E	1.600	11/32	5.160	.250	14° Sup Flo-Brodix PONTIAC. +.200. Special Alloy

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Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET SMALL BLOCK (1 1/32)						
F1194P	E	1.600	11/32	5.160	.250	14° Super Flo-Brodix PON-HiTe Alloy. +.250
F1480P	E	1.600	11/32	5.160	.250	12° Super Flo. (SuperAlloy). +.250
F1811P	E	1.600	11/32	5.160	.250	24° Tulip Flo. +.250
F1149PQ	E	1.600	11/32	5.300	.250	14° Super Flo-Brodix #12/Yates. Special Alloy
F1477P	E	1.600	11/32	5.300	.250	12° Super Flo. (Super Alloy). #12/Yates
F2218P	E	1.600	11/32	5.300	.250	24° Flo. TFS "R" Series
F1484P	E	1.600	11/32	5.350	.250	12° Super Flo. Super Alloy. #12. +.400
F2201P	E	1.600	11/32	5.350	.250	15° Super Flo. +.400
F1135PQ	E	1.600	11/32	5.400	.250	14° Super Flo-Brodix #12/Dart BUICK. Special Alloy
F1485P	E	1.600	11/32	5.460	.250	12° Super Flo.(Super Alloy) - Dart/Brodix #12 & 18° +.500
F2202P	E	1.600	11/32	5.460	.250	15° Super Flo-Hi Temp-Dart/Brodix #12 & 18° +.500
F2203P	E	1.600	11/32	5.460	.250	20° Tulip Sup.Flo-Dart/Brodix #12 & 18° +.500
F1156P	E	1.600	11/32	5.510	.250	14° Super Flo-Dart BUICK Head
F1256P	E	1.600	11/32	5.560	.250	14° Super Flo-Dart/Brodix 18°. +.600
F1482P	E	1.600	11/32	5.560	.250	12° Super Flo. (Super Alloy). 18°. +.600
F2216P	E	1.600	11/32	5.690	.250	20° Alan Johnson 18°
F1872P	E	1.600	11/32	5.725	.250	24° Flo. +.800
F2215P	E	1.600	11/32	6.090	.250	20° Canted Valve. Brodix CVSP
F1101P	E	1.625	11/32	4.960	.250	14° Super Flo. +.050
F1109P	E	1.625	11/32	4.980	.250	15° Semi Tulip Flo-TFS FORD
F1141P	E	1.625	11/32	5.010	.250	18° Tulip Super Flo. +.100
F1103PQ	E	1.625	11/32	5.010	.250	14° Super Flo. +.100. Special Alloy
F1108P	E	1.625	11/32	5.060	.250	20° Tulip Super Flo. +.150
F1812P	E	1.625	11/32	5.060	.250	24° Tulip Flo. +.150
F1195P	E	1.625	11/32	5.160	.250	14° Super Flo-Hi Temp-Brodix PONTIAC. +.200
F1128PQ	E	1.625	11/32	5.160	.250	14° Super Flo-Brodix PONTIAC. +.200. Special Alloy
F1814P	E	1.625	11/32	5.160	.250	24° Tulip Flo. +.250
F1152P	E	1.625	11/32	5.300	.250	14° Super Flo-Dart/Brodix #12
F2219P	E	1.625	11/32	5.300	.250	24° Flo. TFS "R" Series
F1172P	E	1.625	11/32	5.350	.250	14° Super Flo-Dart/Brodix #12. +.400
F1481P	E	1.625	11/32	5.350	.250	12° Super Flo. (Super Alloy). #12. +.400
F1155P	E	1.625	11/32	5.400	.250	15° Super Flo-Dart BUICK Head/Brodix #12
F1178P	E	1.625	11/32	5.460	.250	14° Super Flo-Hi Temp. Dart/Brodix 18°. +.500
F1478P	E	1.625	11/32	5.460	.250	12° Super Flo.(Super Alloy). 18°. +.500
F2204P	E	1.625	11/32	5.460	.250	20° Tulip Super Flo-Dart/Brodix #12
F1157P	E	1.625	11/32	5.510	.250	14° Super Flo-Dart BUICK Head
F1257P	E	1.625	11/32	5.560	.250	14° Super Flo-Dart/Brodix 18°. +.600
F1483P	E	1.625	11/32	5.560	.250	12° Super Flo.(Super Alloy). 18°. +.600
F2220P	E	1.625	11/32	5.560	.250	24° Tulip-Brodix/Chapman/Dart 18°. +.600
F1880P	E	1.625	11/32	5.690	.250	20° Flo
F1873P	E	1.625	11/32	5.725	.250	24° Flo
F1877P	E	1.625	11/32	5.950	.250	24° Flo
F1133P	E	1.650	11/32	5.400	.250	14° Super Flo-Dart BUICK Head/Brodix #12
F1142P	E	1.650	11/32	5.490	.250	25° Tulip Super Flo-Dart BUICK
F1158P	E	1.650	11/32	5.510	.250	14° Super Flo-Dart BUICK
F2205P	E	1.650	11/32	5.560	.250	12° Super Flo-Brodix/Dart 18°. +.600
F1144P	I	2.000	11/32	4.960	.250	12° Super Flo-Double Groove. +.050
F1115P	I	2.020	11/32	4.960	.250	12° Super Flo. +.050
F2249P	I	2.020	11/32	4.960	.250	12° Super Flo. Backup 35°. +.050. Light weight.
F2265P	I	2.020	11/32	4.960	.250	9° Flat Head. +.050
F1118P	I	2.020	11/32	5.010	.250	12° Super Flo. +.100
F1277P	I	2.020	11/32	5.010	.250	12° Flo. Backcut 31°. +.100
F2250P	I	2.020	11/32	5.010	.250	12° Super Flo. Backup 35°. +.100. Light weight.
F1804P	I	2.020	11/32	5.060	.250	12° Flo. +.150
F1159P	I	2.020	11/32	5.110	.250	12° Aerodynamic Blades-Flow Control
F1807P	I	2.020	11/32	5.160	.250	12° Flo. +.250
F2251P	I	2.020	11/32	5.160	.250	12° Super Flo. +.250

COMPETITION PLUS VALVES



Ferrea ElectroX Laser System adds an important feature to the branding, identification and tracing process for our products.

COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET SMALL BLOCK (1 1/32)						
F1111P		2.055	11/32	4.960	.250	12° Super Flo. +.050
F1112P		2.055	11/32	5.010	.250	12° Super Flo. +.100
F1805P		2.055	11/32	5.060	.250	12° Flo. +.150
F2252P		2.055	11/32	5.060	.250	12° Super Flo. +.150
F1808P		2.055	11/32	5.160	.250	12° Flo. +.250
F2253P		2.055	11/32	5.160	.250	12° Super Flo. +.250
F1121P		2.080	11/32	4.960	.250	12° Super Flo. +.050
F1114P		2.080	11/32	5.010	.250	12° Super Flo. +.100
F1273P		2.080	11/32	5.010	.250	12° Flo. Backcut 35°. +.100
F1147P		2.080	11/32	5.060	.250	12° Super Flo. +.150
F1806P		2.080	11/32	5.060	.250	12° Flo. +.150
F1139P		2.080	11/32	5.160	.250	12° Super Flo-Brodix PONTIAC. +.200
F1809P		2.080	11/32	5.160	.250	12° Flo. +.250
F1238P		2.080	11/32	5.300	.250	12° Super Flo. TFS "R" Series
F1871P		2.100	11/32	4.960	.250	12° Super Flo. +.050
F1117P		2.100	11/32	5.010	.250	12° Super Flo. +.100
F2266P		2.100	11/32	5.060	.250	12° Super Flo. +.150
F1207P		2.100	11/32	5.160	.250	12° Super Flo. +.250
F1208P		2.100	11/32	5.300	.250	12° Super Flo-Brodix #12/Yates
F2254P		2.100	11/32	5.350	.250	12° Super Flo. +.450
F1132P		2.100	11/32	5.400	.250	12° Flo-Dart BUICK Head
F2255P		2.100	11/32	5.450	.250	12° Super Flo. +.550
F1123P		2.125	11/32	4.960	.250	12° Super Flo. +.050
F1119P		2.125	11/32	5.010	.250	12° Super Flo. +.100
F1146P		2.125	11/32	5.060	.250	12° Super Flo. +.150
F1127P		2.125	11/32	5.160	.250	12° Super Flo-Brodix PONTIAC. +.200
F1209P		2.125	11/32	5.300	.250	12° Super Flo-Brodix #12/Yates
F2256P		2.125	11/32	5.350	.250	12° Super Flo. +.450
F1221P		2.125	11/32	5.400	.250	12° Super Flo-Brodix #12
F2257P		2.125	11/32	5.450	.250	12° Super Flo-Brodix/Dart 18°. +.500
F1220P		2.150	11/32	5.300	.250	12° Super Flo-Brodix #12
F2258P		2.150	11/32	5.350	.250	12° Super Flo. +.450
F1252P		2.150	11/32	5.400	.250	12° Super Flo-Brodix #12
F1186P		2.150	11/32	5.450	.250	12° Super Flo-Brodix #12 & 18°. +.500
F2259P		2.150	11/32	5.560	.250	12° Super Flo-Brodix/Dart 18°. +.600
F1883P		2.150	11/32	5.690	.250	12° Super Flo
F1874P		2.150	11/32	5.725	.250	12° Super Flo
F2267P		2.180	11/32	5.560	.250	12° S Flo-Brodix/Chapman/Dart 18°. +.600
F1881P		2.180	11/32	5.690	.250	12° Super Flo
F1875P		2.180	11/32	5.725	.250	12° Super Flo
F1228P		2.200	11/32	5.160	.250	12° Super Flo-Brodix PONTIAC. +.200
F1229P		2.200	11/32	5.300	.250	12° Super Flo-Brodix #12/Yates
F1222P		2.200	11/32	5.400	.250	12° Super Flo-Brodix #12/Dart Buick
F2260P		2.200	11/32	5.460	.250	12° Super Flo-Brodix/Dart 18°. +.500
F2261P		2.200	11/32	5.560	.250	12° Super Flo-Brodix/Dart 18°. +.600
F1884P		2.200	11/32	5.690	.250	12° Super Flo
F1876P		2.200	11/32	5.725	.250	12° Super Flo
F2263P		2.200	11/32	5.840	.250	12° All Pro/Neal Ford Brodix
F1878P		2.200	11/32	5.950	.250	12° Super Flo
F1879P		2.200	11/32	6.035	.250	12° Super Flo
F2262P		2.250	11/32	6.200	.250	12° Canted Valve. Brodix CVSP
CHEVROLET SMALL BLOCK (23°, #12 & 18° NASCAR HEADS)						
F1460P	E	1.600	7mm	5.160	.290	12° (Super Alloy). Rad Groove. 23°. +.200
F1463P	E	1.600	7mm	5.160	.290	24° Tulip. (Super Alloy). Rad Groove. 23°. +.200
F1466P	E	1.600	7mm	5.160	.290	12° (Super Alloy). 23°. +.200
F1469P	E	1.600	7mm	5.160	.290	24° Tulip. (Super Alloy). 23°. +.200
F1461P	E	1.600	7mm	5.380	.290	12° (Super Alloy). Rad Groove. #12 & 18°. +.400
F1464P	E	1.600	7mm	5.380	.290	24° Tulip. (Super Alloy). Rad Groove. #12 & 18°. +.400
F1467P	E	1.600	7mm	5.380	.290	12° NASCAR (Super Alloy)
F1471P	E	1.600	7mm	5.550	.290	24° Tulip. (Super Alloy). 18°. +.600
F1462P	E	1.600	7mm	5.550	.290	12° (Super Alloy). Rad Groove. 18°. +.600
F1465P	E	1.600	7mm	5.550	.290	24° Tulip. (Super Alloy). Rad Groove. 18°. +.600
F1468P	E	1.600	7mm	5.550	.290	12° (Super Alloy). 18°. +.600
F1473P	E	1.600	7mm	6.300	BLANK	24° Tulip. (Super Alloy)
F1472P	E	1.625	7mm	6.300	BLANK	12° (Super Alloy)
F1486P	E	1.625	7mm	6.300	BLANK	24° Tulip (Super Alloy)
F1474P	E	1.600	5/16	5.380	.290	12° (Super Alloy). #12 & 18°. +.400
F1475P	E	1.650	5/16	6.300	BLANK	12° Dish Head. (Super Alloy)
F1487P	E	1.650	5/16	6.300	BLANK	24° Tulip. Super Alloy
F1476P	E	1.600	11/32	4.960	.250	12° Super Flo. (Super Alloy). +.50
F1479P	E	1.600	11/32	5.060	.250	12° Super Flo. (Super Alloy). +.150

COMPETITION PLUS VALVES

COMPETITION PLUS VALVES

COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET SMALL BLOCK (23°, #12 & 18° NASCAR HEADS)						
F1480P	E	1.600	11/32	5.160	.250	12° Super Flo. (Super Alloy). 23°. +.250
F1477P	E	1.600	11/32	5.300	.250	12° Super Flo. (Super Alloy). 23°. #12
F1484P	E	1.600	11/32	5.350	.250	12° Super Flo. (Super Alloy). #12 & 18°. +.400
F1485P	E	1.600	11/32	5.460	.250	12° Super Flo. (Super Alloy). 18°. +.500
F1482P	E	1.600	11/32	5.560	.250	12° Super Flo. (Super Alloy). 18°. +.600
F1481P	E	1.625	11/32	5.350	.250	12° Super Flo. (Super Alloy). #12 & 18°. +.400
F1478P	E	1.625	11/32	5.460	.250	12° Super Flo. (Super Alloy). 18°. +.500
F1483P	E	1.625	11/32	5.560	.250	12° Super Flo. (Super Alloy). 18°. +.600
CHEVROLET SMALL BLOCK - LS1						
F1894P	E	1.550	.313	4.915	.160	15° S.Flo. Rad. Grov. Sup.Alloy. Turbo Application
F1893P	E	1.600	.313	4.915	.160	15° S.Flo. Rad. Grov. Sup.Alloy. Turbo Application
F1892P	E	1.600	.313	4.915	.160	24° S.Flo. Rad. Grov. Sup.Alloy. Turbo Application
CHEVROLET SMALL BLOCK - LS7						
F1598P	E	1.615	.313	5.227	.290	15° Flo. Rad. Grov. Sup.Alloy. Turbo Application
F1597P	E	1.615	.313	5.227	.290	24° Flo. Rad. Grov. Sup.Alloy. Turbo Application
CHRYSLER 440 CID (BRODIX HEAD)						
F1275P	E	1.780	11/32	5.400	.250	15° Super Flo-BI Head
F1266P	E	1.810	11/32	5.300	.250	15° Super Flo-BI BS Head
F1229P	I	2.200	11/32	5.300	.250	12° Super Flo-BI BS Head
CHRYSLER 440 CID (11/32) (INDY CYLINDER HEAD)						
F1885P	E	1.810	11/32	5.370	.250	15° Flo. 440 SR
F1886P	E	1.940	11/32	5.880	.250	15° Flo. 600-13 Series
F1226P	I	2.190	11/32	5.346	.250	12° Super Flo. +.100 - 440 SR
F1223P	I	2.250	11/32	5.350	.250	12° Super Flo. +.100 - 440 SR
F1887P	I	2.250	11/32	5.850	.250	12° Super Flo. 600-13 Series
CHRYSLER HEMI 426 CID (5/16)						
F1523P	E	1.900	5/16	5.040	.250	22° Tulip Flo. +.100
F1521P	E	1.940	5/16	4.910	.250	22° Flo. Ray Barton
F1501P	E	1.945	5/16	4.865	.200	22° Flo. Radial Groove
F1539P	E	1.945	5/16	5.029	.250	22° Flo. Radial Groove
F1237P	E	2.000	5/16	7.000	BLANK	22° Tulip Flo. Finished No Groove
F1512P	I	2.250	5/16	5.422	.200	24° Flo. Radial Groove. Ray Barton
F1500P	I	2.250	5/16	5.472	.250	24° Flo
F1538P	I	2.250	5/16	5.522	.250	24° Flo. Radial Groove
F1510P	I	2.300	5/16	7.000	BLANK	24° Tulip Flo. No groove, requires lash caps
F1895P	I	2.350	5/16	5.472	.250	24° Flo





In 2007 a group of former Grand Prix boat owners and drivers, with the help of ACHA Valleyfield group, formed a brand new Grand Prix Race Team.

Tom Baker, Mike Endres, Bud Keating, Huey Newport and Todd Roesch, reunited after being out of boat racing for over 14 years, contacted Patrick Newirth to drive and the Crush team was formed.

The experience of this team includes 146 inboard class victories, 57 national and world championships, plus 46 world and national records.

This resume and the expertise of the "hottest" young driver in boat racing will make the "Crush" team one of the most competitive in GP racing history.

Huey Newport, who has been in the performance industry for many years, has received technical assistance from his many friends and business associates including Dart Machinery, Competition Cams, Ferrara Performance Products, and Diamond Pistons.

You better watch the "Crush Team", they're coming at you.






COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHRYSLER HEMI - DART/BAE/AJR HEADS (11/32)						
F1526P	E	1.900	11/32	5.019	.250	22° Flo-DART/55° Seat-Turbo/T Fuel/Funny Car-Hi Temp (Super Alloy)
F1527P	E	1.950	11/32	5.019	.250	22° Flo-DART/BAE/AJR-50° Seat-Turbo/T Fuel/Funny Car-Hi Temp (Super Alloy)
F1535P	E	1.950	11/32	5.019	.250	22° Flo-55° Seat. T/F-F/C (Super Alloy)
F1505P	E	2.000	11/32	5.019	.250	22° Flo-45° Seat-DART/BAE AJR Heads
F1506P	E	2.000	11/32	5.019	.250	22° Flo-DART/BAE/AJR-45° Seat-Turbo/T Fuel/Funny Car-Hi Temp (Super Alloy)
F1509P	E	2.000	11/32	7.000	BLANK	22° Flo-DART/45° Seat-Turbo/T Fuel/Funny Car-Hi Temp (Super Alloy)
CHRYSLER HEMI - DART/BAE/AJR HEADS (3/8)						
F1531P	E	1.900	3/8	5.019	.250	22° Flo-55° Seat. T/F-F/C (Super Alloy)
F1533P	E	1.900	3/8	5.119	.250	22° Flo-55° Seat. T/F-F/C (Super Alloy)
F1537P	E	1.925	3/8	4.990	.250	22° Flo. 55° Seat. - Super Alloy. T/F - F/C
F1536P	E	1.925	3/8	5.119	.250	22° Flo. 55° Seat / 38° Backcut. Sup. Alloy. T/F-F/C
F1571P	E	1.925	3/8	5.119	.250	22° Flo. 55° Seat. Radial Groove. Sup Alloy. T/F-F/C
F1572P	E	1.925	3/8	5.219	BLANK	22° Flo. 55° Seat / 38° Backcut. - Sup Alloy. T/F-F/C
F1532P	E	1.950	3/8	5.019	.250	22° Flo-55° Seat. T/F-F/C (Super Alloy)
F1570P	E	1.950	3/8	5.019	.250	22° Flo. 55° Seat. Radial Groove. Sup Alloy. T/F-F/C
F1529P	E	1.950	3/8	5.119	.250	22° Flo-50° Seat. (Super Alloy) Funny Car/Top Fuel
F1534P	E	1.950	3/8	5.119	.250	22° Flo-55° Seat. T/F-F/C (Super Alloy)
F1530P	E	1.950	3/8	5.170	BLANK	22° Flo-DART/55° Seat-Turbo/T Fuel/Funny Car-Hi Temp (Super Alloy)
F1507P	E	2.000	3/8	5.019	.250	22° Flo. (Super Alloy).Funny Car/Top Fuel
F1525P	E	2.000	3/8	5.119	BLANK	22° Flo-45° Seat. T/F-F/C (Super Alloy)
F1528P	E	2.000	3/8	5.119	.250	22° Flo-DART/55° Seat-Turbo/T Fuel/Funny Car-Hi Temp (Super Alloy)
F1511P	E	2.100	3/8	7.000	BLANK	22° Flo. (Super Alloy).Funny Car/Top Fuel
DODGE VIPER V-10						
F806607	E	1.580	5/16	5.870	.220	15° Super Flo
F806608	I	1.930	5/16	5.870	.220	12° Super Flo



Terry Haddock's Racegirl Racing Nitro Funny Car uses Ferrea Valves.

Team Wilkerson Racing's Levi, Ray & Shoup, Inc Nitro Funny Car rely on Ferrea Valves. Tim Wilkerson is currently leading the 2008 NHRA Championship race as of 10/23/2008.



COMPETITION PLUS VALVES

COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
FERRARI GT 308						
F1163P	E	36.75mm	8.0mm	109.85mm	6.98mm	25° Flo
F1162P	I	42.37mm	8.0mm	109.25mm	7.3mm	18° Super Flo
FORD 302 - 351 (YATES NASCAR HEAD)						
F1467P	E	1.600	7mm	5.380	.290	12° NASCAR (Super Alloy)
F1470P	E	1.600	7mm	5.380	.290	24° Tulip NASCAR (Super Alloy)
F1474P	E	1.600	5/16	5.380	.290	12° NASCAR (Super Alloy)
F1472P	E	1.625	7mm	6.300	BLANK	12° NASCAR (Super Alloy)
F1475P	E	1.650	5/16	6.300	BLANK	12° Dish Head. (Super Alloy)
FORD 4.6L/5.7 - SOHC V8 - 24 VALVES 2005-2007						
F1188P	E	1.474	.235	4.580	.472	21° Flo. Stk. size. Super Alloy. Single Groove. 1 Valve required
F1189P	E	1.553	.235	4.580	.472	21° Flo. Stk. size. Super Alloy. Single Groove. 1 Valve required
F1198P	I	1.332	.235	4.617	.406	19° Super Flo. Stk. size. Single Groove. 2 Valve required
F1199P	I	1.372	.235	4.617	.406	19° Super Flo. Stk. size. Single Groove. 2 Valve required
Tech Note: These Ferrea Valves comes with single radial groove.						
These valves required Ferrea Valve Spring #S10102, Ferrea Titanium Retainer #11069 and both Ferrea Spring Seat Locator #SL1055 and Facory supply Spring Seat Locator and Ferrea Valve Lock #K10077.						
For racing applications Ferrea Racing does not recommend the use of triple radial groove valves.						
FORD 4.6 - 32 VALVES						
F1450P	I	37mm	7mm	135.6mm	15.7mm	20° Stock. 3 Radial Groove
F1451P	E	30mm	7mm	116.3mm	10.65mm	25° Stock. 3 Radial Groove
FORD 429 - 460 W/AFTERMARKET HEADS						
F2222P	E	1.880	11/32	5.700	.250	15° Super Flo-SVO/TFS
F2269P	E	1.940	11/32	5.700	.250	15° Super Flo-SVO/TFS
F2221P	I	2.300	11/32	5.755	.250	12° Super Flo-SVO/TFS
F2268P	I	2.350	11/32	5.755	.250	12° Super Flo-SVO/TFS
FORD BOSS 302 - 351 C - 429 - 460 (5/16)						
F1134P	E	1.650	5/16	5.010	.250	12° Flo-Hi Temp S.Alloy-Inconel
F1151P	E	1.650	5/16	5.058	.250	10° Flo
F1242P	I	2.125	5/16	5.275	.250	12° Flo
F1244P	I	2.250	5/16	5.325	.250	12° Flo
FORD BOSS 302 - 351 C - 429 - 460 (11/32)						
F1420P	E	1.650	11/32	5.058	.250	12° Super Flo-351C/429/460
F1440P	E	1.655	11/32	5.165	.250	14° Super Flo-Ford 351. +.100
F1400P	E	1.710	11/32	5.058	.250	14° Super Flo-351C/429/460
F1441P	E	1.710	11/32	5.165	.250	14° Super Flo-Ford 351. +.100
F1437P	E	1.760	11/32	5.058	.250	14° Super Flo-429/460
F1439P	E	1.770	11/32	5.165	.250	14° Super Flo-Ford 429/460. +.100
F1401P	E	1.800	11/32	5.058	.250	14° Super Flo-429CJ-Bluethunder Head
F1170P	E	1.800	11/32	5.160	.250	12° Super Flo. +.100
F1171P	E	1.880	11/32	5.058	.250	14° Super Flo-Bluethunder Head
F1211P	I	2.190	11/32	5.300	.250	12° SupFlo-351C/429/460-Bluethu Head
F1226P	I	2.190	11/32	5.346	.250	12° Super Flo-Ford 351/429/460. +.100
F1212P	I	2.250	11/32	5.300	.250	12° SupFlo-351C/429CJ-Bluethu Head

COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
FORD FE 352 - 390 - 427 - 428 W/AFTERMARKET HEADS						
F2223P	E	1.650	11/32	5.450	.250	15° Super Flo. Special Alloy. Blue Thunder
F2224P	E	1.710	11/32	5.450	.250	15° Super Flo. Special Alloy. Blue Thunder
FORD GT 5.4L - 32 VALVE - 2005-2007						
F2164P	E	1.260	.275	4.635	.390	15° Flo. Super Alloy. 3 Radial Groove. Stock
F2165P	I	1.455	.2755	5.395	.455	12° Flo. Super Flo. Super Alloy. 3 Radial Groove. Stock
FORD SVO C 460 (MOTORSPORT HEAD)						
F1264P	E	1.900	11/32	6.240	.300	15° Flo
F1236P	I	2.425	11/32	6.300	.300	12° Super Flo
JUDD (INDY CARS & FORMULA 1)						
F1419P	E	34.5mm	6.98mm	135mm	BLANK	30° Flo
F1418P	I	40mm	6.98mm	135mm	BLANK	20° Super Flo
PONTIAC (PRO STOCK)						
F1263P	E	1.900	11/32	6.450	.250	22° Flo
F1265P	I	2.400	11/32	6.600	.250	12° Flo
PONTIAC BIG BLOCK (KAUFFMAN AFTERMARKET HEAD)						
F1249P	E	1.700	11/32	6.200	.250	24° Super Flo. Dish Head. (KRE High Port Head)
F1251P	E	1.750	11/32	6.200	.250	24° Super Flo. Dish Head. (KRE High Port Head)
F1250P	I	2.200	11/32	6.200	.250	12° Super Flo. Dish Head. (KRE High Port Head)

COMPETITION PLUS VALVES



Team Green - Stucky Racing 12 valves Cummings powered Diesel Truck. National Record Holder – Pro Stock, uses Ferrea Valves.



COMPETITION PLUS VALVES - BLANKS

Ferrea also offers competition **Plus Blanks Valves** that can be custom-machine to your specifications. Racing Valves not in stock can be custom made for within days. Check with us for pricing and lead time.



COMPETITION PLUS VALVES - BLANKS

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BLANKS (5/16) ("REQUIRE LASH CAPS or HARD TIPS")						
F1185P	E	1.575	5/16	5.315	BLANK	15° Flo. Finished.No groove. Special Alloy
F806607	E	1.580	.3085	5.870	BLANK	15° Flo.
F1475P	E	1.650	5/16	6.300	BLANK	12° Flo. Dish Head. (Super Alloy)
F1487P	E	1.650	5/16	6.300	BLANK	24° Flo. Tulip. Super Alloy
F1177P	E	1.650	5/16	7.500	BLANK	12° Flo. Hi Temp Special Alloy
F1197P	E	1.800	5/16	7.000	BLANK	24° Flo. Tulip. HiTe.Finished. No groove. Spec. Alloy
F1233P	E	1.950	5/16	6.500	BLANK	15° Flo. Finished.No groove. Special Alloy
F1237P	E	2.000	5/16	7.000	BLANK	22° Flo. Tulip Flo - Finished No groove. Spec. Alloy
F806608	I	1.930	.3085	5.870	BLANK	12° Flo.
F1248P	I	2.080	5/16	7.000	BLANK	12° Super Flo. Finished. No groove. Spec. Alloy
F1245P	I	2.125	5/16	7.000	BLANK	12° Super Flo. Finished. No groove. Spec. Alloy
F1246P	I	2.150	5/16	7.000	BLANK	12° Super Flo. Finished. No groove. Spec. Alloy
F1247P	I	2.250	5/16	7.000	BLANK	12° Super Flo. Finished. No groove. Spec. Alloy
F1510P	I	2.300	5/16	7.000	BLANK	24° Tulip Flo.Finished.No groove. Special Alloy
F1243P	I	2.350	5/16	7.000	BLANK	12° Super Flo. Finished.No groove. Spec. Alloy
BLANKS (1 1/32) ("REQUIRE LASH CAPS or HARD TIPS")						
F1888P	E	1.625	11/32	7.000	BLANK	24° Flo. Special Alloy
F1590P	E	1.650	11/32	7.000	BLANK	23.5° Flo. Super Alloy. Turbo Applications
F1184P	E	1.650	11/32	7.500	BLANK	15° Super Flo. HiTe Alloy. Finished.No groove
F1889P	E	1.650	11/32	7.000	BLANK	24° Flo. Special Alloy
F1196P	E	1.800	11/32	7.000	BLANK	24° Super Flo. Tulip.HiTe Special Alloy
F1589P	E	1.800	11/32	7.000	BLANK	23.5° Flo. Super Alloy. Turbo Applications
F1591P	E	1.800	11/32	7.000	BLANK	15° Super Flo. Special Alloy
F1181P	E	2.000	11/32	7.000	BLANK	15° Super Flo. Flat Head. Finished.No groove
F1183P	E	2.000	11/32	7.000	BLANK	15° Super Flo. Finished.No groove
F1509P	E	2.000	11/32	7.000	BLANK	22° Tulip Flo. Pro-T/F-F/C. (Super Alloy)
F1890P	I	2.150	11/32	7.000	BLANK	12° Flo. Special Alloy
F1891P	I	2.200	11/32	7.000	BLANK	12° Flo. Special Alloy
F1190P	I	2.375	11/32	7.000	BLANK	12° Super Flo. Finished.No groove. Special Alloy
F1191P	I	2.375	11/32	7.000	BLANK	12° S. Flo. Flat Head.Finished.No groove. Spec. Alloy
F1193P	I	2.600	11/32	7.000	BLANK	12° Super Flo. Finished. No groove. Special Alloy
BLANKS (3/8) ("REQUIRE LASH CAPS or HARD TIPS")						
F1572P	E	1.925	3/8	5.219	BLANK	22° Flo. 55° Seat / 38° Backcut. - Sup Alloy. T/F-F/C
F1594P	E	1.940	3/8	7.000	BLANK	15° Super Flo. Special Alloy
F1530P	E	1.950	3/8	5.170	BLANK	22° Flo-DART/55° Seat-Turbo/T Fuel/Funny Car-Hi Temp (Super Alloy)
F1511P	E	2.100	3/8	7.000	BLANK	22° Flo. (Super Alloy).Funny Car/Top Fuel
F1592P	I	2.350	3/8	7.000	BLANK	12° Super Flo.
F1593P	I	2.375	3/8	7.000	BLANK	12° Super Flo. Special Alloy. Flat Head
BLANKS 4-5 MM ("REQUIRE LASH CAPS OR HARD TIPS")						
F0066	E	23 mm	4 mm	125 mm	BLANK	21° Flo-No Groove-No Tip. Special Alloy
F0064	E/I	26.5 mm	4 mm	125 mm	BLANK	21° Flo-No Groove-No Tip. Special Alloy
F0232	I	30 mm	4 mm	135 mm	BLANK	21° Super Flo. Special Alloy
F0173	E	28.5 mm	4.46 mm	120 mm	BLANK	12° Flo-No Groove-No Tip. Special Alloy
F0171	I	31 mm	4.48 mm	120 mm	BLANK	12° Flo Bimetallic. Special Alloy
F0172	I	31 mm	4.48 mm	120 mm	BLANK	15° Flo Bimetallic. Special Alloy
F0063	E	26 mm	4.5 mm	125 mm	BLANK	21° Flo-No Groove-No Tip. Special Alloy
F0062	I	34 mm	4.5 mm	125 mm	BLANK	19° Flo-No Groove-No Tip. Special Alloy
F0183	E	29 mm	4.95 mm	130 mm	BLANK	12° Flo. Special Alloy
F0337	E	27 mm	4.97 mm	135 mm	BLANK	19° Flo. Special Alloy. Bi-Metallic
F0069	E	34 mm	4.97 mm	140 mm	BLANK	19° Flo. Super Alloy.
F0184	I	34 mm	4.97 mm	130 mm	BLANK	12° Flo. Special Alloy
F0338	I	32.1 mm	4.98 mm	135 mm	BLANK	19° SuperFlo. Dish Head

COMPETITION PLUS VALVES - BLANKS

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BLANKS 5-6 MM ("REQUIRE LASH CAPS OR HARD TIPS")						
F0067	I	30 mm	5 mm	135 mm	BLANK	19° Flo-No Groove-No Tip. Special Alloy
F0065	E/I	38 mm	5 mm	135 mm	BLANK	19° Super Flo-No Groove-No Tip. Special Alloy
F0242	E	34 mm	5.48 mm	135 mm	BLANK	15° Flo. Flat Head. Special Alloy
F1943P	E	32 mm	5.48 mm	140 mm	BLANK	22° Flo. Super Alloy Turbo Applications
F1459P	E	32 mm	5.48 mm	135 mm	BLANK	22° Flo. Super Alloy
F1457P	I	37 mm	5.48 mm	135 mm	BLANK	20° Flo. Special Alloy
F0241	I	41 mm	5.48 mm	135 mm	BLANK	14° Super Flo. Flat Head. Special Alloy
F0231	E	30 mm	5.5 mm	135 mm	BLANK	19° Flo. Dish Head. Top Fuel. Super Alloy
F0238	E	32 mm	5.5 mm	135 mm	BLANK	22° Flo-No Groove-No Tip. Special Alloy
F0047	I	34 mm	5.5 mm	135 mm	BLANK	19° Super Flo-No Groove-No Tip. Special Alloy
F0233	I	36 mm	5.5 mm	135 mm	BLANK	25° Super Flo. HONDA. Special Alloy
F0253	I	42 mm	5.5 mm	135 mm	BLANK	19° Super Flo. Special Alloy
F1492P	E	34 mm	5.95 mm	140 mm	BLANK	21° Tulip Flo. Bimetallic Super Alloy
F1942P	E	34 mm	5.95 mm	140 mm	BLANK	21° Flo. Super Alloy Turbo Applications
F0176	E	36 mm	5.95 mm	135 mm	BLANK	21° Flo. Special Alloy
F0175	E	36 mm	5.96 mm	135 mm	BLANK	21° Super Flo-No Groove-No Tip. Special Alloy
F1580P	I	36 mm	5.97 mm	145 mm	BLANK	12° Super Flo-No Groove-No Tip. Special Alloy
F1581P	I	38 mm	5.97 mm	145 mm	BLANK	15° Super Flo-No Groove-No Tip. Special Alloy
F0174	I	42 mm	5.97 mm	135 mm	BLANK	19° Super Flo-No Groove-No Tip. Special Alloy
F0293	I	46 mm	5.97 mm	145 mm	BLANK	19° Super Flo. Special Alloy.
F1582P	I	46 mm	5.97 mm	145 mm	BLANK	12° Super Flo-No Groove-No Tip.
BLANKS 6-7 MM ("REQUIRE LASH CAPS OR HARD TIPS")						
F0060	I	40 mm	6 mm	145 mm	BLANK	19° Super Flo-No Groove-No Tip. Special Alloy
F1595P	E	31 mm	6.02 mm	145 mm	BLANK	25° Flo. Special Alloy. Ford
F1596P	I	36 mm	6.03 mm	145 mm	BLANK	19° Super Flo. Ford
F1455P	E	32.5 mm	6.55 mm	135 mm	BLANK	22° Flo Super Alloy
F1941P	E	32.5 mm	6.55 mm	140 mm	BLANK	22° Flo Super Alloy Turbo Applications
F1453P	E	36 mm	6.57 mm	135 mm	BLANK	20° Super Flo. Special Alloy
F1438P	I	38 mm	6.58 mm	135 mm	BLANK	20° Super Flo
F1585P	E	34 mm	6.95 mm	145 mm	BLANK	15° Flo. No groove-No Tip. Special Alloy
F1586P	I	39 mm	6.97 mm	145 mm	BLANK	12° Super Flo. No Groove-No Tip. Special Alloy
F1419P	E	34.5 mm	6.98 mm	135 mm	BLANK	30° Flo. Special Alloy
F1418P	I	40 mm	6.98 mm	135 mm	BLANK	20° Super Flo. Special Alloy
F0077	E	1.750	.275	5.710	BLANK	24° Tulip Flo. Special Alloy Harley Davidson
F0078	I	2.100	.275	5.710	BLANK	24° Tulip Flo. Harley Davidson
BLANKS (7 mm) ("REQUIRE LASH CAPS or HARD TIPS")						
F1473P	E	1.600	7mm	6.300	BLANK	24° Tulip. NASCAR (Super Alloy)
F1472P	E	1.625	7mm	6.300	BLANK	12° NASCAR (Super Alloy)
F1486P	E	1.625	7mm	6.300	BLANK	24° Tulip. NASCAR (Super Alloy)
F1493P	E	1.650	7mm	6.300	BLANK	24° Tulip. (Super Alloy)
F2207P	I	2.080	7mm	6.500	BLANK	12° Flo. Ultra Light. Special Alloy
F2208P	I	2.150	7mm	6.500	BLANK	12° Flo. Ultra Light. Special Alloy
F2209P	I	2.250	7mm	6.500	BLANK	12° Flo. Ultra Light. Special Alloy
BLANKS (7-8 mm) ("REQUIRE LASH CAPS or HARD TIPS")						
F0004	E	33 mm	7mm	135 mm	BLANK	22° Flo-No Groove-No Tip. Special Alloy
F0345	E	33mm	7mm	145mm	BLANK	22° Flo. Super Alloy. No Groove. No Tip
F0034	E	36 mm	7mm	135 mm	BLANK	22° Flo-No Groove-No Tip. Special Alloy
F0346	E	39mm	7mm	145mm	BLANK	22° Flo. Super Alloy. No Groove. No Tip
F0038	E	39 mm	7mm	135 mm	BLANK	22° Tulip Flo-No Groove-No Tip. Special Alloy
F0002	I	42 mm	7mm	135 mm	BLANK	20° Flo-No Groove-No Tip. Special Alloy
F0039	I	46 mm	7mm	145 mm	BLANK	12° Flo-No Groove-No Tip. Special Alloy
F2162P	E	32mm	7.09mm	145mm	BLANK	R. 12mm Flo. Flat Head
F2163P	I	38mm	7.10mm	145mm	BLANK	19° Super Flo. Flat Head
F0029	E	1.750	.308	5.118	BLANK	24° Flo-No Groove-No Tip. Special Alloy.
F1583P	E	1.650	.313	6.000	BLANK	15° Super Flo. Special Alloy. GM LS7/L92
F2159P	E	1.650	.313	8.000	BLANK	15° Flo. Super Alloy . GM LS1/LS7/L92
F1584P	E	1.650	.313	6.000	BLANK	24° Super Flo. Special Alloy. GM LS7/L92
F1599P	E	1.650	.313	6.000	BLANK	24° Flo. Super Alloy . GM LS1/LS7/L92
F0230	E	41 mm	7.96mm	135 mm	BLANK	20° Super Flo. DUCATI. Special Alloy
F1587P	I	2.000	.3135	6.000	BLANK	12° Super Flo. GM LS1/LS6
F1588P	I	2.200	.3135	6.000	BLANK	12° Super Flo. GM LS7/L92
F0229	I	47 mm	7.98mm	135 mm	BLANK	20° Super Flo. DUCATI. Special Alloy
F1182P	E	41 mm	8mm	135 mm	BLANK	15° Super Flo. Finished. No groove. Special Alloy
F1442P	I	44 mm	8mm	110 mm	8.5 mm	10° Super Flo. Special Alloy
F1192P	I	48 mm	8mm	135 mm	BLANK	26° Super Flo. Finished. No Groove. Special Alloy

6000 SERIES COMPETITION VALVES



The 6000 Series Competition Valves are designed to provide excellent reliability in an environment of high spring pressures and roller cams, at a budget price. They have higher fatigue resistance and tensile strengths than our competitor's best offerings. These valves can be used in Drag and Oval Track racing applications.

To manufacture the valves we use our exclusive two-step slow forging process using EV8 stainless steel on both intake and exhaust valves. We provide a special heat-treatment and stress relieving process, along with hard chrome stems and friction-welded hard tips. We finish with a swirl polished head. The valves feature flow improvements to deliver the power needed for today's sophisticated racing engines.

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BUICK V-6 (11/32)						
F6237	E	1.500	11/32	4.735	.254	29° Tulip Flo-Stage 1&2 Iron Head
F6238	I	1.775	11/32	4.735	.271	10° Super Flo-Stage 1&2 Iron Head
CHEVROLET BIG BLOCK (11/32)						
F6157	E	1.880	11/32	5.425	.250	15° Super Flo. Brodix/Dart 320-360. +.100
F6184	E	1.880	11/32	5.471	.250	15° Super Flo. +.150
F6186	E	1.900	11/32	5.425	.250	15° Super Flo. +.100
F6158	E	1.940	11/32	5.425	.250	15° Super Flo. +.100
F6139	I	2.190	11/32	5.275	.250	12° Super Flo. +.050
F6189	I	2.190	11/32	5.344	.250	12° Super Flo. +.100
F6269	I	2.190	11/32	5.471	.250	12° Super Flo. +.250.
F6196	I	2.200	11/32	5.271	.250	12° Super Flo. +.050
F6129	I	2.250	11/32	5.271	.250	12° Super Flo. Stk/+.050
F6190	I	2.250	11/32	5.344	.250	12° Super Flo. +.100
F6195	I	2.250	11/32	5.471	.250	12° Super Flo. +.250
F6130	I	2.300	11/32	5.321	.250	12° Super Flo. +.100
F6131	I	2.300	11/32	5.471	.250	12° Super Flo. Brodix/Dart 320-360. +.250
F6138	I	2.325	11/32	5.471	.250	12° Super Flo. Brodix/Dart 320-360. +.250
CHEVROLET BIG BLOCK (3/8)						
F6128	E	1.725	3/8	5.350	.225	15° Super Flo. Stk
F6125	E	1.880	3/8	5.350	.225	15° Super Flo. Stk
F6156	E	1.880	3/8	5.400	.225	15° Super Flo. Brodix/Dart 320-360. +.050
F6185	E	1.900	3/8	5.425	.225	15° Super Flo. +.100
F6127	I	2.065	3/8	5.221	.225	12° Super Flo. Stk
F6126	I	2.190	3/8	5.221	.225	12° Super Flo. Stk
F6133	I	2.250	3/8	5.271	.225	12° Super Flo. +.050
F6134	I	2.300	3/8	5.321	.225	12° Super Flo. Brodix/Dart 320/360. +.100
F6135	I	2.300	3/8	5.421	.225	12° Super Flo. Brodix/Dart 320/360. +.200
CHEVROLET SMALL BLOCK (11/32)						
F6107	E	1.500	11/32	4.960	.250	12° Flo. +.050
F6144	E	1.500	11/32	5.010	.250	12° Super Flo. +.100
F6161	E	1.560	11/32	4.960	.250	12° Super Flo. +.050
F6100	E	1.600	11/32	4.960	.250	12° Super Flo. +.050. (Edelbrock Head Stk)
F6108	E	1.600	11/32	4.960	.250	12° Flo. +.050
F6104	E	1.600	11/32	5.010	.250	12° Super Flo. +.100
F6145	E	1.600	11/32	5.010	.250	12° Flo. +.100
F6202	E	1.600	11/32	5.060	.250	12° Semi Tulip Super Flo. +.150
F6160	E	1.600	11/32	5.300	.250	12° Super Flo-Brodix # 12. +.400
F6228	E	1.600	11/32	5.400	.250	12° Super Flo-Brodix # 12 & 18° +.500
F6143	E	1.625	11/32	4.960	.250	12° Super Flo. +.050
F6146	E	1.625	11/32	5.010	.250	12° Super Flo. +.100
F6205	E	1.625	11/32	5.060	.250	20° Semi Tulip Super Flo. +.150
F6148	E	1.625	11/32	5.160	.250	15° Super Flo-Brodix Pontiac. +.200
F6102	I	1.940	11/32	4.960	.250	12° Super Flo. +.050
F6111	I	1.940	11/32	4.960	.250	12° Flo. +.050
F6142	I	1.940	11/32	5.010	.250	12° Super Flo. +.100

6000 SERIES COMPETITION VALVES

6000 SERIES COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET SMALL BLOCK (1 1/32)						
F6165	I	2.000	11/32	4.960	.250	12° Super Flo. +.050
F6101	I	2.020	11/32	4.960	.250	12° Super Flo. +.050
F6110	I	2.020	11/32	4.960	.250	12° Flo. +.050
F6103	I	2.020	11/32	5.010	.250	12° Super Flo. +.100
F6150	I	2.020	11/32	5.010	.250	12° Flo. +.100
F6208	I	2.020	11/32	5.060	.250	12° Super Flo. +.150
F6206	I	2.020	11/32	5.160	.250	12° Super Flo. Canfield Head. +.200
F6105	I	2.055	11/32	4.960	.250	12° Super Flo. +.050
F6114	I	2.055	11/32	5.010	.250	12° Super Flo. +.100
F6151	I	2.055	11/32	5.010	.250	12° Flo. +.100
F6207	I	2.055	11/32	5.060	.250	12° Super Flo. +.150
F6115	I	2.080	11/32	4.960	.250	12° Super Flo. +.050
F6116	I	2.080	11/32	5.010	.250	12° Super Flo. +.100
F6203	I	2.080	11/32	5.060	.250	12° Super Flo. +.150
F6164	I	2.080	11/32	5.160	.250	12° Super Flo. Canfield Head. +.200
F6263	I	2.080	11/32	5.300	.250	12° Super Flo. +.400
F6117	I	2.100	11/32	4.960	.250	12° Super Flo. +.050
F6118	I	2.100	11/32	5.010	.250	12° Super Flo. +.100
F6256	I	2.100	11/32	5.060	.250	12° Super Flo. +.150
F6152	I	2.100	11/32	5.160	.250	12° Super Flo-Brodix Pontiac. +.200
F6153	I	2.125	11/32	5.010	.250	12° Super Flo. +.100
F6204	I	2.125	11/32	5.060	.250	12° Super Flo. +.150
F6154	I	2.125	11/32	5.160	.250	12° Super Flo-Brodix Pontiac. +.200
F6254	I	2.125	11/32	5.300	.250	12° Super Flo. +.400
F6166	I	2.150	11/32	5.300	.250	12° Super Flo-Brodix # 12. +.400
F6167	I	2.150	11/32	5.400	.250	12° Super Flo-Brodix # 12 & 18°. +.500
CHEVROLET SMALL BLOCK - LS1						
F6232	E	1.550	.313	4.915	.160	15° Flo. Radius Groove - LS1 CORVETTE
F6271	E	1.570	.313	4.915	.160	24° Tulip Super Flo. Radius Groove
F6233	E	1.600	.313	4.915	.160	15° S Flo. Radius Groove - LS1 CORVETTE
F6235	E	1.600	.313	4.915	.160	24° Tulip Super Flo. Radius Groove. LS1 CORVETTE
F6267	E	1.600	.313	5.015	.160	24° Tulip Super Flo. +.100. Radius Groove
F6270	E	1.650	.313	4.915	.160	24° Tulip Super Flo. +.100. Radius Groove
F6230	I	2.000	.3135	4.900	.160	12° Flo. Radius Groove - LS1 CORVETTE
F6231	I	2.020	.3135	4.900	.160	12° S Flo. Radius Groove - LS1 CORVETTE
F6266	I	2.020	.3135	5.000	.160	12° Super Flo. +.100. Radius Groove
F6234	I	2.055	.3135	4.900	.160	12° Super Flo. Radius Groove. LS1 CORVETTE
F6236	I	2.080	.3135	4.900	.160	12° Super Flo. Radius Groove. LS1 CORVETTE
F6268	I	2.080	.3135	5.000	.160	12° Super Flo. +.100. Radius Groove
F6242	I	2.100	.3135	4.900	.160	12° Super Flo. Radius Groove. LS1 CORVETTE
CHEVROLET SMALL BLOCK - LS6						
F6265	E	1.550	.313	4.939	.180	24° Tulip S Flo. Radius Groove
F6264	I	2.000	.3135	4.890	.180	12° S Flo. Radius Groove
CHEVROLET SMALL BLOCK - L92						
F6233	E	1.600	.313	4.915	.160	15° S Flo. Radius Groove.
F6235	E	1.600	.313	4.915	.160	24° Tulip Super Flo. Radius Groove
F6279	I	2.165	.3135	4.900	.160	12° S Flo Backcut 30° Radius Groove
F6280	I	2.200	.3135	4.900	.160	12° S Flo Backcut 30° Radius Groove



Rick McDonough leaving hard in his '70 Chevelle 2 Door Wagon. Working at Murray's Speed & Custom he knows good parts. Rick's SBC uses Ferrea 6000 series Stainless Int & Exh valves.

6000 SERIES COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHRYSLER 318-340-360 (3/8)						
F6243	E	1.500	3/8	4.970	.225	15° Super Flo.
F6244	E	1.600	3/8	4.970	.225	15° Super Flo.
F6245	E	1.625	3/8	4.970	.225	15° Super Flo.
F6246	I	1.780	3/8	4.980	.225	12° Super Flo.
F6247	I	1.880	3/8	4.980	.225	12° Super Flo.
F6248	I	1.920	3/8	4.980	.225	12° Super Flo.
F6249	I	2.020	3/8	4.980	.225	12° Super Flo.
CHRYSLER 340 & W2 (3/8)						
F6173	E	1.600	3/8	5.075	.225	15° Super Flo. +.050
F6137	E	1.600	3/8	5.225	.225	15° Super Flo-W2
F6172	I	2.020	3/8	5.050	.225	11° Super Flo. +.050
F6136	I	2.080	3/8	5.225	.225	11° Super Flo-W2
CHRYSLER 440 CID (1 1/32) (INDY CYLINDER HEAD)						
F6188	E	1.810	11/32	5.369	.250	15° Super Flo
F6189	I	2.190	11/32	5.344	.250	12° Super Flo
F6190	I	2.250	11/32	5.344	.250	12° Super Flo
CHRYSLER 440 CID (3/8)						
F6192	E	1.810	3/8	4.910	.290	15° Super Flo. Stk
F6250	E	1.880	3/8	4.910	.290	15° Super Flo
F6217	I	2.140	3/8	4.875	.290	12° Super Flo. Stk
F809525	I	2.175	3/8	4.875	.290	12° Flo. Stk
F6191	I	2.190	3/8	4.875	.290	12° Super Flo. Stk
CHRYSLER/DODGE HEMI 5.7L						
F6198	E	1.550	.3125	4.845	.120	25° Flo. 3 Radial Grooves. Stock
F6288 (*)	E	1.550	.3125	4.845	.160	25° Flo. Single Radial Groove.
F6284	E	1.570	.3125	4.845	.120	25° Flo. 3 Radial Grooves. Oversize
F6199	I	2.000	.3125	4.955	.120	12° Super Flo. 3 Radial Grooves. Stock
F6285	I	2.020	.3125	4.955	.120	12° Super Flo. 3 Radial Grooves. Oversize
F6289 (*)	I	2.020	.3125	4.955	.160	12° Super Flo. Single Radial Groove. Oversize
Tech Note: (*) For Part # F6288 and # F6289 please call for technical assistance.						
CHRYSLER/DODGE HEMI 6.1L						
F6272	E	1.600	.3125	4.925	.120	25° Flo. 3 Radial Grooves. Stock
F6290 (*)	E	1.600	.3125	4.925	.160	25° Flo. Single Radial Groove.
F6286	E	1.625	.3125	4.925	.120	25° Flo. 3 Radial Grooves. Oversize
F6275	I	2.080	.3125	4.990	.120	12° Super Flo. 3 Radial Grooves. Stock
F6287	I	2.100	.3125	4.990	.120	12° Super Flo. 3 Radial Grooves. Oversize
F6291 (*)	I	2.100	.3125	4.990	.160	12° Super Flo. Single Radial Groove. Oversize
Tech Note: (*) For Part # F6290 and # F6291 please call for technical assistance.						
FORD 2.0 L						
F6220	E	38.1mm	8mm	113mm	5.38mm	10° Flo
F6219	I	44.5mm	8.02mm	113mm	5.07mm	9° Flo
FORD 2.3 L						
F6224	E	1.500	11/32	4.800	.400	12° Super Flo
F6229	E	1.500	11/32	4.870	.470	12° Super Flo
F6222	E	1.590	11/32	4.800	.400	12° Super Flo
F6227	E	1.600	11/32	4.870	.470	12° Super Flo
F6223	I	1.740	11/32	4.800	.400	12° Super Flo
F6225	I	1.740	11/32	4.870	.470	12° Super Flo
F6221	I	1.890	11/32	4.800	.400	12° Super Flo
F6226	I	1.890	11/32	4.870	.470	12° Super Flo
FORD 4.6 - 16 VALVES						
F6274	E	1.450	.274	4.656	.466	14° Super Flo. 3 Radial Grooves. Stock
F6273	I	1.780	.274	4.712	.466	12° Super Flo. 3 Radial Grooves. Stock
FORD 4.6L/5.4L - SOHC 24 VALVES						
F6276	E	1.476	.2345	4.583	.380	25° Flo. 3 Radial Grooves. Stock. 1 Valve required
F6282	E	1.515	.2345	4.583	.380	25° Flo. 3 Radial Grooves. Oversize. 1 Valve required
F6281	I	1.331	.2355	4.618	.315	12° Flo. 3 Radial Grooves. Stock. 2 Valves required
F6283	I	1.378	.2355	4.618	.315	12° Flo. 3 Radial Grooves. Oversize. 2 Valves required

6000 SERIES COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
FORD 4.6 - 32 VALVES						
F6278	E	30 mm	7 mm	117.1 mm	10.65 mm	25° Super Flo. 3 Radial Grooves. Stock
F6277	I	37 mm	7 mm	135.9 mm	15.7 mm	20° Super Flo. 3 Radial Grooves. Stock
FORD 351 C (2 Barrel)						
F6179	E	1.650	11/32	5.060	.250	12° Super Flo. Stk
F6132	I	2.070	11/32	5.275	.250	12° Super Flo. Stk/+.050
F6155	I	2.100	11/32	5.275	.250	12° Super Flo-SVO-Yates
FORD 351 N (SPORTSMAN HEAD)						
F6147	E	1.600	11/32	5.160	.250	12° Super Flo
F6206	I	2.020	11/32	5.160	.250	12° Super Flo
FORD 351 W & GT40 HEAD						
F6260	E	1.480	11/32	5.075	.395	14° Super Flo
F6123	E	1.550	11/32	5.075	.395	14° Super Flo. Stk
F6183	E	1.600	11/32	5.075	.395	14° Super Flo. Stk
F6261	I	1.780	11/32	5.075	.395	12° Super Flo
F6122	I	1.850	11/32	5.075	.395	12° Super Flo. Stk
F6239	I	1.900	11/32	5.075	.395	12° Super Flo. Stk. AFR/HOLLEY
F6170	I	1.940	11/32	5.075	.395	12° Super Flo. Stk
F6169	I	2.020	11/32	5.075	.395	12° Super Flo. Stk
FORD 429 - 460 W/AFTERMARKET HEADS						
F6181	E	1.880	11/32	5.700	.250	15° Super Flo-SVO/TFS
F6180	E	1.940	11/32	5.700	.250	15° Super Flo-SVO/TFS
F6168	I	2.350	11/32	5.755	.250	12° Super Flo-SVO/TFS
FORD BOSS 302 - 351 C - 429 - 460						
F6124	E	1.710	11/32	5.060	.250	12° Super Flo-351C/429/ 460
F6258	E	1.760	11/32	5.060	.250	14° Super Flo
F6159	E	1.800	11/32	5.058	.250	12° Super Flo-SVO 429/460
F6209	E	1.800	11/32	5.060	.250	24° Tulip Super Flo. Stk
F6139	I	2.190	11/32	5.275	.250	12° Super Flo-429/460. Stk/+.050
F6189	I	2.190	11/32	5.344	.250	12° Super Flo-429/460. +.100
F6196	I	2.200	11/32	5.271	.250	12° Super Flo. 351C/429CJ. Stk/+.050
F6129	I	2.250	11/32	5.271	.250	12° Super Flo-351C/429CJ. Stk/+.050
F6190	I	2.250	11/32	5.344	.250	12° Super Flo-351C/429CJ. +.100
FORD FE 352 - 390 - 427 - 428						
F6212	E	1.655	3/8	5.435	.330	12° Super Flo-Edelbrock Head
F6216	E	1.750	3/8	5.435	.330	12° Super Flo
F6210	I	2.090	3/8	5.450	.330	22° Super Flo 30° Seat-Edelbrock Head
F6211	I	2.150	3/8	5.450	.330	22° Super Flo 30° Seat
F6215	I	2.190	3/8	5.450	.330	22° Super Flo 30° Seat
F6214	I	2.250	3/8	5.450	.330	22° Super Flo 30° Seat
FORD WINDSOR 302 - 351						
F6100	E	1.600	11/32	4.960	.250	12° Super Flo. +.050. (Edelbrock Head Stk)
F6119	E	1.600	11/32	5.030	.325	14° Super Flo
F6218	I	1.900	11/32	4.960	.250	12° Super Flo-Edelbrock Head
F6193	I	1.900	11/32	5.030	.325	12° Super Flo-Edelbrock Head
F6120	I	1.940	11/32	5.030	.325	12° Super Flo
F6121	I	2.020	11/32	5.030	.325	12° Super Flo
PONTIAC 400 - 428 - 455						
F6259	E	1.660	11/32	5.110	.250	12° Super Flo
F6177	E	1.660	11/32	5.230	.250	12° Super Flo-Edelbrock Head
F6176	E	1.770	11/32	5.110	.250	12° Super Flo
F6178	E	1.770	11/32	5.230	.250	12° Super Flo-Edelbrock & RA IV Head
F6174	I	2.110	11/32	5.095	.250	12° Super Flo-45° Seat
F6175	I	2.110	11/32	5.213	.250	12° Super Flo-Edelbrock & RA IV Head-45° Seat

5000 SERIES HI PERFORMANCE VALVES

The 5000 Series Valves have become the alternative for performance engine builders that use our competitors "street" or "performance valve". These valves are produced in our CNC centers allowing tight tolerances and cost-effective design. They feature a one-piece forging made from stainless steel, a special heat treatment process, hard chrome stems, and hard tip. Most applications are available in an undercut stem and dished head, while other applications are available in straight stem and flat head. These valves provide our customers with maximum value for their dollar, and are designed for Street Performance engines, mildly modified Drag and Oval Track applications.

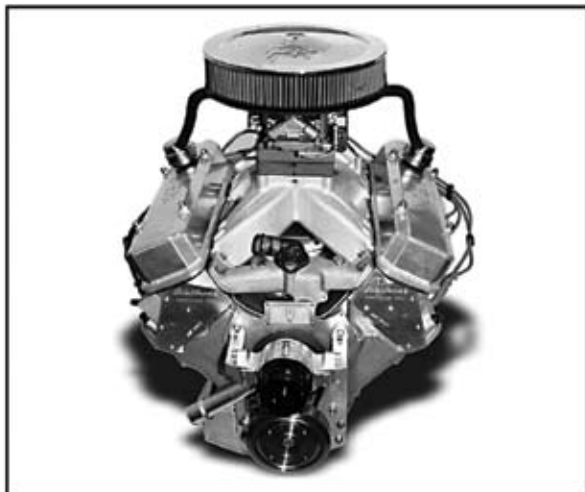


Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET BIG BLOCK (11/32)						
F5035	E	1.880	11/32	5.425	.250	12° Under Cut-Dish Head. +.100
F5037	I	2.190	11/32	5.300	.250	10° Under Cut-Dish Head. +.100
F5031	I	2.250	11/32	5.271	.250	10° Under Cut-Dish Head. +.050
F5070	I	2.250	11/32	5.471	.250	10° Under Cut-Dish Head. +.250
CHEVROLET BIG BLOCK (3/8)						
F5010	E	1.725	3/8	5.350	.225	12° Under Cut-Dish Head. Stk
F5011	E	1.880	3/8	5.350	.225	12° Under Cut-Dish Head. Stk
F5111	E	1.880	3/8	5.375	.225	9° Flo-Flat Head. Stk
F5007	I	2.065	3/8	5.221	.225	10° Under Cut-Dish Head. Stk
F5008	I	2.190	3/8	5.221	.225	10° Under Cut-Dish Head. Stk
F5108	I	2.190	3/8	5.246	.225	9° Flo-Flat Head. Stk
F5009	I	2.250	3/8	5.271	.225	10° Under Cut-Dish Head. Stk
CHEVROLET SMALL BLOCK (11/32)						
F5004	E	1.500	11/32	4.910	.256	12° Under Cut-Dish Head. Stk
F5104	E	1.500	11/32	4.935	.250	9° Flo-Double Groove-Flat Head. Stk
F5049	E	1.500	11/32	5.010	.256	12° Under Cut. +.100
F5005	E	1.600	11/32	4.910	.256	12° Under Cut-Dish Head. Stk
F5105	E	1.600	11/32	4.935	.250	9° Flo-Double Groove-Flat Head. Stk
F5046	E	1.600	11/32	4.960	.250	15° Semi Tulip-Under Cut-Dish Head-TFS
F5025	E	1.600	11/32	5.010	.256	12° Under Cut-Dish Head. +.100
F5006	E	1.625	11/32	5.010	.256	12° Under Cut-Dish Head. +.100
F5038	E	1.625	11/32	5.060	.250	12° Under Cut-Dish Head. +.150
F5040	E	1.650	11/32	5.060	.250	12° Under Cut-Dish Head. +.150
F5000	I	1.725	11/32	4.910	.256	10° Under Cut-Dish Head. Stk
F5060	I	1.840	11/32	4.910	.256	11° Under Cut-Dish Head
F5161	I	1.840	11/32	4.935	.250	9° Flo-Double Groove-Flat Head
F5072	I	1.900	11/32	4.910	.256	10° Under Cut-Dish Head. AFR/HOLLEY
F5001	I	1.940	11/32	4.910	.256	10° Under Cut-Dish Head. Stk

5000 SERIES HI PERFORMANCE VALVES

5000 SERIES HI PERFORMANCE VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
CHEVROLET SMALL BLOCK (1 1/32)						
F5101	I	1.940	11/32	4.935	.250	9° Flo-Double Groove-Flat Head. Stk
F5048	I	1.940	11/32	5.010	.256	10° Under Cut. +.100
F5002	I	2.020	11/32	4.910	.256	10° Under Cut-Dish Head. Stk
F5102	I	2.020	11/32	4.935	.250	9° Flo-Double Groove-Flat Head. Stk
F5047	I	2.020	11/32	4.960	.250	10° Under Cut.TFS. Dish Head. +.050
F5027	I	2.020	11/32	5.010	.256	10° Under Cut-Dish Head. +.100
F5003	I	2.055	11/32	4.910	.256	10° Under Cut-Dish Head. Stk
F5103	I	2.055	11/32	4.935	.250	9° Flo-Double Groove-Flat Head. Stk
F5022	I	2.055	11/32	5.010	.256	10° Under Cut-Dish Head. +.100
F5021	I	2.080	11/32	4.910	.256	10° Under Cut-Dish Head. Stk
F5023	I	2.080	11/32	5.010	.256	10° Under Cut-Dish Head. +.100
CHRYSLER 340 & W2 (3/8)						
F5051	E	1.600	3/8	5.075	.225	14° Super Flo
F5050	I	2.020	3/8	5.050	.225	12° Super Flo
CHRYSLER 440 CID (3/8)						
F5055	E	1.740	3/8	4.910	.290	14° Super Flo
F5053	E	1.810	3/8	4.910	.290	14° Super Flo
F5054	I	2.080	3/8	4.875	.290	12° Super Flo
F5052	I	2.140	3/8	4.875	.290	12° Super Flo



Buttler Performance built this Pontiac engine for overhauling for Lance Armstrong GTO using Ferrea Racing Components.



5000 SERIES HI PERFORMANCE VALVES

5000 SERIES HI PERFORMANCE VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
FORD 351 C (2 Barrel)						
F5040	E	1.650	11/32	5.060	.250	12° Under Cut-Dish Head
F5026	I	2.070	11/32	5.275	.250	10° Under Cut-Dish Head
FORD 351 W & GT40 HEAD						
F5028	E	1.550	11/32	5.075	.395	12° Under Cut-Dish Head
F5058	E	1.600	11/32	5.075	.395	12° Under Cut-Dish Head
F5029	I	1.850	11/32	5.075	.395	10° Under Cut-Dish Head
F5071	I	1.900	11/32	5.075	.395	10° Under Cut-Dish Head. AFR/HOLLEY
F5059	I	1.940	11/32	5.075	.395	10° Under Cut-Dish Head
FORD BOSS 302 - 351 C - 429 - 460						
F5045	E	1.710	11/32	5.060	.250	12° Under Cut-Dish Head
F5145	E	1.760	11/32	5.060	.250	9° Flo-Dish Head
F5037	I	2.190	11/32	5.300	.250	10° Under Cut-Dish Head
F5031	I	2.250	11/32	5.271	.250	10° Under Cut-Dish Head
FORD WINDSOR 289 - 302 - 351						
F5014	E	1.450	11/32	5.030	.325	12° Under Cut-Dish Head
F5015	E	1.600	11/32	5.030	.325	12° Under Cut-Dish Head
F5038	E	1.625	11/32	5.060	.250	12° Under Cut-Dish Head
F5012	I	1.782	11/32	5.030	.325	10° Under Cut-Dish Head
F5056	I	1.900	11/32	5.030	.325	10° Under Cut-Dish Head
F5018	I	1.940	11/32	5.030	.325	10° Under Cut-Dish Head
F5020	I	2.020	11/32	5.030	.325	10° Under Cut-Dish Head
F5039	I	2.055	11/32	5.060	.250	10° Under Cut-Dish Head
OLDSMOBILE						
F5141	E	1.710	11/32	4.668	.250	9° Flo-Dish Head
F5141B	E	1.710	11/32	4.735	.250	9° Flo-Dish Head
F5142	I	2.075	11/32	4.715	.250	9° Flo-Dish Head
PONTIAC 400 - 428 - 455						
F5079	E	1.660	11/32	5.110	.250	12° Under Cut - Dish Head. (KRE Aluminum D-Port)
F5064	E	1.660	11/32	5.230	.250	12° Under Cut-Dish Head-Edelbrock
F5062	E	1.770	11/32	4.980	.250	12° Under Cut-Dish Head
F5144	E	1.770	11/32	5.110	.250	9° Flo-Dish Head
F5063	E	1.770	11/32	5.230	.250	12° Under Cut-Dish Head-RA IV
F5065	I	2.110	11/32	4.980	.250	12° Under Cut-Dish Head-45° Seat
F5143	I	2.110	11/32	5.095	.250	9° Flo-Dish Head-30° Seat
F5073	I	2.110	11/32	5.095	.250	9° Flo-Dish Head-45° Seat. (KRE Aluminum D-Port).
F5066	I	2.110	11/32	5.213	.250	12° Under Cut-Dish Head-30° Seat-RA IV/Edelbrock
F5074	I	2.110	11/32	5.213	.250	12° Under Cut-Dish Head-45° Seat RA IV/Edelbrock



LIFTERS



Ferrea Racing Components introduces our new **Lightweight Pro Solid Lifters** series for the domestic race industry. **Ferrea's** line of lightweight Pro Lifters is comprised of these select diameters: .842, .874, and .904.

Ferrea's Lightweight Pro Solid Lifters may "look" like regular solid lifters available from other sources; however, they are packed with **Ferrea's** important standard features such as:

- Composed of super clean **Tool Steel Alloy material** gives quality assurance through increased resistive strength and durability to higher levels of compressive stress seen in today's higher revving motors.
- **Fully CNC machined inner cavity** to eliminate as much weight as possible and a final grind to the **inner diameter** is performed to provide tight dimensional tolerance. The **outer diameter** sides are ground to match precise concentricities held to .0002-inches.
- **Forged reinforced pushrod seat** ensures reliability and pressurized oiling lubrication when using high valve spring pressures at high rpm levels.
- **Multi-staged heat treatment** process to obtain better material performance with strength, material density, micro structure hardness integrity, and **reduction in friction factor**.
- **Critically lubricated** through a **.025-inch laser precision hole** for increased oil delivery at all times and extend cam lobe-face to lifter cycle life for today's sophisticated and demanding Drag and Oval Track race cam profiles.

Dyno and track tests have proven with **Ferrea Lightweight Pro Solid Lifters** plus **Ferrea Hollow Stem Lightweight Valves** cranks out an additional 500-650 RPM more by eliminating approximately a pound of reciprocating mass from the motor.

TECH TIP

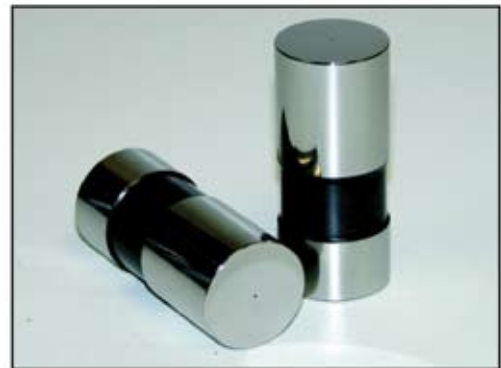
Standard Cast Cam Cores: Maximum open valve spring pressure should not exceed **350 lbs.**

Note: If valve spring open pressure is more than 350 lbs we strictly recommend using a P55 hardened steel came core.

P55 or K15 Hardened Cast Cam Cores: Maximum recommended open valve spring pressure should not exceed **450 lbs.**



Ken Heard Car # 6167 Super gas runs 8.50" at 158 mph using Ferrea's Ultra Lite Lifters.



Part N°	Specifications
CHEVROLET	
LF1002	Solid Lifter .842". Ultra lightweight
CHRYSLER	
LF1004	Solid Lifter .904". Ultra lightweight
FORD	
LF1003	Solid Lifter .874". Ultra lightweight



LUBRICANTS AND SEALANTS



UNIVERSAL BLUE RACING FORMULA

Hylomar Universal Blue Racing Formula gasketing and sealing compound was originally developed in conjunction with Rolls Royce for gas turbine jet engines. As a non-hardening sealant that offers virtually unlimited open time (meaning there is no time constraint regarding assembly), it allows you as much time as necessary to align components and does not require removal unless the sealant becomes contaminated. Works extremely well on applications where vibration or joint movements are present.

Can be used on all flat machined surfaces, as gasket dressings, and sealing close fitting flanges.

Resists fuels, oils, glycol and other fluids.
Good to 480°F (250°C) continuous

Specified by all leading OEMs for automotive applications



Part N°	Size	Packaging Type	Pack Quantity
HS1000	35 ml	Tube in Blister Card	20 per pack
HS1001	75 ml	Tube	55 per pack
HS1002	6 oz	Aerosol spray can	12 per pack

UNIVERSAL BLUE RACING FORMULA

Hylomar 100 series RTV is a non-corrosive, low odor, Room Temperature Vulcanizing (RTV) silicone compound. It is a high performance, engineering grade silicone product. 100 series silicone has good resistance to oils and aqueous anti-freeze agents. Unlike general-purpose silicone sealants, Hylomar Silicone Sealant 100 contains no solvents and does not give off acetic acid during cure.



100 series silicone has a temperature range when cured of -60°F to 360°F unaltered, and is usable to 455°F.

Hylomar 310 series is a high temperature silicone sealant, that is resistant to oil, water and lubricants, it remains flexible to withstand vibration. This special high temperature silicone sealant has a temperature range when cured of 50°F to 570°F.



Part N°	Type	Size	Packaging Type	Pack Quantity
HS1003	102 Black	85 gm	Tube	50 per pack
HS1004	31- HT	85 gm	Tube	50 per pack

LUBRICANTS AND SEALANTS



LUBRICANTS AND SEALANTS



HYLOMAR ANAEROBIC THREADLOCKERS

Hylomar 4430 Threadlocker Medium strength, low/med viscosity blue
 For medium strength thread locking. Oil resistant.
 Dismantling.



Part N°	Size	Packaging Type	Pack Quantity
HS1005	50 ml	Bottle	12 per pack
HS1001	250 ml	Bottle	12 per pack

Hylomar 4800 Threadlocker Very high strength, very low viscosity green (penetrating grade)
 Very high strength thread locking.
 Wicks into threads without disassembly.
 For pre-assembled fasteners that don't normally require dismantling.



Part N°	Size	Packaging Type	Pack Quantity
HS1007	50 ml	Bottle	12 per pack
HS1008	250 ml	Bottle	12 per pack

Hylomar 4820 Threadlocker Very high strength, low viscosity red
 The product is recommended for use on small threaded fasteners not normally requiring dismantling.
 For high strength thread locking of studs, nuts and bolts.



Part N°	Size	Packaging Type	Pack Quantity
HS1009	50 ml	Bottle	12 per pack
HS1010	250 ml	Bottle	12 per pack

EXHAUST PASTE

Hylomar Exhaust Assembly Paste is a water based heat-curing jointing compound designed for use in the assembly exhaust systems. The asbestos-free formulation is designed to withstand temperatures up to 1000° C and will withstand both the temperatures and pressures of an exhaust system. Allows for complete sealing assembly, and disassembly of flanged exhaust systems.



Part N°	Size	Packaging Type	Pack Quantity
HS1011	140 g	Tube	24 per pack

LUBRICANTS AND SEALANTS

New

BEEHIVE VALVE SPRINGS

New



Ferrea Racing Components introduces our new **PAC Alloy Beehive Valve Spring** series for the domestic performance street/strip and racing applications. These single Beehive form valve springs are designed and optimized to reduce valvetrain harmonics, provide greater spring stability, and reduce spring and retainer masses for increase performance and durability in today's harsh racing engines.

PAC Alloy Beehive Valve Springs are developed from premium grade super-clean **PAC Alloy** material designed for racing applications. These valve springs are crafted using the latest technology in manufacturing and processing techniques through the use of state-of-the-art equipment unmatched throughout the industry. Our springs are progressively coiled with tighter tolerances, heat treated, stress relieved, and multistage shot peen for extended life and durability. Strict quality control procedures and cycle testing ensures consistency from batch-to-batch.

We have expanded our valve spring line offering **PAC Alloy Beehive Ovate (Oval/Multi-Radius) wire shape** designed to withstand aggressive endurance requirements. Key advantages in using an ovate wire shape are better heat dissipation for longer life, and valvetrain stresses are more effectively distributed over the entire wire shape extending spring life and enabling more horsepower. They have the highest level of fatigue resistance available, while minimizing load loss for today's aggressive valvetrain combinations.

PAC Racing develops beehive springs with aid of RPD (Rapid Prototype Development) technique to ensure that the engine runs as expected. Numerous spring designs are evaluated and tested before the final spring shape is determined.



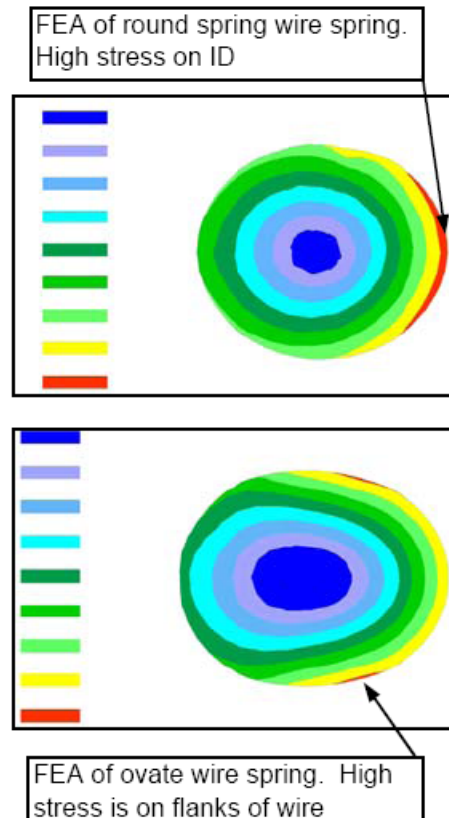
BEEHIVE VALVE SPRINGS



Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
CHEVROLET BIG BLOCK								
S2003	Single Beehive. PAC Alloy Flat tappet or Hydraulic Roller	1.080 1.445	.650 1.000	155 lbs @ 1.880"	377 lbs @ 1.280"	370 lbs	1.210"	.600"
This Spring requires Ferrea Titanium Retainer #E12003 OR #E12006 and Ferrea Spring Seat Locator #SL1074 OR #SL1077								
S2004	Single Beehive. Ovate. PAC Alloy Nitrided High Lift Extreme Application	1.100 1.445	.650 1.000	155 lbs @ 1.880"	405 lbs @ 1.230"	370 lbs	1.180"	.650"
Features additional processing for Extreme application. This Spring requires Ferrea Titanium Retainer #E12003 OR #E12006 and Ferrea Spring Seat Locator #SL1074 OR #SL1077								
CHEVROLET SMALL BLOCK - LS1 / LT1								
S2000	Single Beehive. PAC Alloy Performance OEM replacement	1.050 1.290	.650 .885	105 lbs @ 1.800"	293 lbs @ 1.200"	313 lbs	1.140"	.600"
This Spring requires Ferrea Steel Retainer #E10029 OR Ferrea Titanium Retainer # E12014 and Ferrea Spring Seat Locator #SL1080								
S2001	Single Beehive. Ovate. PAC Alloy High Performance	1.050 1.290	.650 .885	130 lbs @ 1.800"	318 lbs @ 1.200"	313 lbs	1.140"	.600"
This Spring requires Ferrea Steel Retainer #E10029 OR Ferrea Titanium Retainer #E12014 and Ferrea Spring Seat Locator #SL1080								
S2002	Single Beehive. Ovate. PAC Alloy Nitrided High Lift Extreme Application	1.050 1.290	.650 .885	130 lbs @ 1.800"	337 lbs @ 1.150"	313 lbs	1.080"	.650"
Features additional processing for Extreme application. This Spring requires Ferrea Steel Retainer #E10029 OR Ferrea Titanium Retainer #E12014 and Ferrea Spring Seat Locator #SL1080								

BEEHIVE VALVE SPRINGS

FEA diagram illustrates the benefits of Beehive Ovate wire over standard round wire spring. This wire more effectively distributes the stress over the entire wire shape.





BEEHIVE VALVE SPRINGS



BEEHIVE VALVE SPRINGS

Part N ^o	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
CHRYSLER/DODGE HEMI 5.7L/6.1L								
S2009	Single Beehive Ovate. PAC Alloy Performance OEM replacment	1.035 1.210	.630 .805	135 lbs @ 1.800"	350 lbs @ 1.200"	358 lbs	1.160"	.600"
This Spring requires Ferrea Steel Retainer #E10031 OR Ferrea Titanium Retainer #E12008 and Ferrea Spring Seat Locator # SL1079								
ENDURANCE HIGH LIFT								
S2006	Single Beehive Ovate. PAC Alloy High Lift application	1.175 1.589	.731 1.135	150 lbs @ 2.000"	385 lbs @ 1.250"	313 lbs	1.180"	.750"
This Spring requires Ferrea Titanium Retainer #E12012 OR #E12023 and Ferrea Spring Seat Locator #SL1075								
FLAT TAPPET & HYDRAULIC ROLLER								
S2005	Single Beehive Ovate. PAC Alloy High Lift Extreme application	1.165 1.445	.731 .990	160 lbs @ 1.950"	425 lbs @ 1.300"	408 lbs	1.220"	.700"
This Spring requires Ferrea Titanium Retainer #E12012 OR #E12023 and Ferrea Spring Seat Locator #SL1083								
FORD 4.6L - 16 VALVE								
S2010	Single Beehive Ovate. PAC Alloy Performance OEM replacment	.950 1.061	.636 .738	80 lbs @ 1.640"	185 lbs @ 1.090"	191 lbs	1.020"	.550"
This Spring requires Ferrea Steel Retainer #E10033 OR Ferrea Titanium Retainer #E12005 and Ferrea Spring Seat Locator #SL1076 OR Factory Seat Locator								
S2011	Single Beehive Ovate. PAC Alloy High Lift application	.985 1.061	.636 .698	100 lbs @ 1.640"	265 lbs @ 1.080"	275 lbs	1.040"	.600"
This Spring requires Ferrea Titanium Retainer #E12005 and Ferrea Spring Seat Locator # SL1076 OR Factory Seat Locator								
FORD 4.6L/5.7L - SOHC V8 - 24 VALVE - 2005-2007								
S2007	Single Beehive Ovate. PAC Alloy Performance OEM replacment	.915 1.025	.567 .662	105 lbs @ 1.670"	270 lbs @ 1.120"	300 lbs	1.060"	.550"
This Spring requires Ferrea Steel Retainer #E10032 OR Ferrea Titanium Retainer #E12015 and Ferrea Spring Seat Locator # SL1088 OR Factory Seat Locator								
FORD 4.6L - 32 VALVE								
S2008	Single Beehive Ovate. PAC Alloy Performance OEM replacment	.940 1.105	.580 .742	90 lbs @ 1.470"	252 lbs @ .970"	324 lbs	.900"	.500"
This Spring requires Ferrea Steel Retainer # E10030 OR Ferrea Titanium Retainer # E12010 and Ferrea Spring Seat Locator #SL1086 OR Factory Seat Locator								
FORD GT 5.4L - 32 VALVE - 2005-2007								
S2016	Single Beehive Ovate. PAC Alloy High Lift application (INTAKE) - 16 pieces)	.985 1.061	.636 .698	100 lbs @ 1.700"	220 lbs @ 1.280"	285 lbs	1.000"	.600"
This Spring requires Ferrea Titanium Retainer #E12022 and Ferrea Spring Seat Locator #SL1087 OR Factory Seat Locator								
S2017	Single Beehive Ovate. PAC Alloy High Lift application (EXHAUST) - 16 pieces)	.950 1.061	.636 .738	100 lbs @ 1.530"	190 lbs @ 1.080"	200 lbs	.970"	.500"
This Spring requires Ferrea Titanium Retainer #E12022 and Ferrea Spring Seat Locator #SL1087 OR Factory Seat Locator								
STOCK ELIMINATOR								
S2012	Single Beehive Ovate. PAC Alloy	1.043 1.250	.650 .845	150 lbs @ 1.800"	390 lbs @ 1.250"	436 lbs	1.190"	.550"
Features additional processing for increase performance and durability This Spring requires Ferrea Steel Retainer #E10034 OR Ferrea Titanium Retainer # E12024, #E12025 OR #E12007 and Ferrea Spring Seat Locator # SL1078, #SL1081 OR #SL1085								

VALVE SPRINGS



Harmonics or high frequency fatigue is present in all racing engines and will usually destroy the valvetrain if not controlled. Properly designed valve springs will control the dominant harmonics, provide the needed stability, and reduce valvetrain component wear.

Ferrea valve springs are developed from high strength alloys, including premium grade chrome silicon steel. These springs are manufactured with state-of-the-art equipment. Our springs are heat-treated and stress-relieved, which dramatically increases the spring's life. Strict quality control procedures and cycle testing ensures consistency from batch to batch. Ferrea valve springs provide the stability needed for high lift, high rpm racing engines, while minimizing the

load loss for today's aggressive valvetrain combinations.

We expanded our **Springs** offering to include many new designs and applications. Our goal is to provide the best possible valve-train combinations for all racing environments from circle track, drag racing, motorcycle racing and offshore marine racing.

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
DIAMETERS 1.650" TO 1.600"								
S10000	Triple Spring Pacalloy Roller	.885 1.200 1.650	.645 .885 1.200	330 lbs @2.100"	950 lbs @1.200"	680 lbs	1.140"	.900"
S10001	Triple Spring Pacalloy Roller	.885 1.200 1.650	.640 .885 1.200	320 lbs @2.025"	865 lbs @1.225"	680 lbs	1.140"	.850"
S10002	Triple Spring Pacalloy Roller	.885 1.200 1.650	.640 .885 1.200	285 lbs @2.000"	790 lbs @1.250"	680 lbs	1.140"	.800"
S10003	Dual w/Damper H11 Tool Steel Roller	1.080 1.625	.767 1.189	250 lbs @1.950"	675 lbs @1.200"	570 lbs	1.150"	.750"
S10004	Dual w/Damper Chrome Silicon Roller	1.065 1.625	.770 1.175	230 lbs @2.000"	600 lbs @1.300"	550 lbs	1.200"	.700"
S11004	Dual w/Damper Special Alloy Roller	1.065 1.625	.770 1.175	250 lbs @2.020"	675 lbs @1.270"	550 lbs	1.180"	.750"
S10023	Dual w/Damper Special Alloy	1.065 1.625	.770 1.175	240 lbs @2.000"	685 lbs @1.250"	550 lbs	1.150"	.750"
S10005	Dual w/Damper Vasco Jet. Roller	1.064 1.624	.760 1.164	210 lbs @1.900"	695 lbs @1.200"	675 lbs	1.050"	.700"
S10076	Dual Spring - Special Alloy Endurance Spring	1.160 1.610	.835 1.160	262 lbs @2.000"	640 lbs @1.300"	540 lbs	1.220"	.750"
This Spring requires Ferrea Titanium Retainer # E11047LW. Maximum Retainer Step: .100"								

VALVE SPRINGS

VALVE SPRINGS

Part N ^o	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
DIAMETERS 1.570" TO 1.225"								
S10022	Dual w/Damper Vasco Jet. Roller	1.025 1.570	.740 1.135	230 lbs @ 1.950"	620 lbs @ 1.225"	540 lbs	1.175"	.720"
S10030	Dual w/Damper Special Alloy	1.025 1.570	.570 1.135	250 lbs @ 1.900"	650 lbs @ 1.200"	600 lbs	1.125"	.660"
S11016	Dual 1.153 Special Alloy Roller	.820 1.560	245 lbs 1.155	590 lbs @ 1.950"	490 lbs @ 1.250"	1.150"	.700"	
S10015	Dual w/Damper Special Alloy Endurance Roller	1.040 1.560	.740 1.145	240 lbs @ 2.000"	600 lbs @ 1.280"	500 lbs	1.180"	.720"
S11011	Dual w/Damper Special Alloy Roller	1.040 1.560	.740 1.145	245 lbs @ 1.970"	585 lbs @ 1.290"	480 lbs	1.190"	.680"
S11012	Dual w/Damper Special Alloy Roller	1.040 1.560	.740 1.145	245 lbs @ 1.950"	585 lbs @ 1.270"	470 lbs	1.170"	.680"
S11014	Dual w/Damper Special Alloy W Cup Flat Tapped	1.040 1.560	.740 1.145	195 lbs @ 1.975"	540 lbs @ 1.275"	500 lbs	1.175"	.700"
S11015	Dual w/Damper Special Alloy Roller	1.040 1.560	.740 1.145	245 lbs @ 2.000"	600 lbs @ 1.300"	500 lbs	1.200"	.700"
S10021	Dual Pacalloy Roller	1.135 1.550	.815 1.135	235 lbs @ 1.950"	635 lbs @ 1.200"	530 lbs	1.150"	.720"
S10014	Dual w/Damper Chrome Silicon Roller	1.025 1.550	.740 1.135	210 lbs @ 1.900"	520 lbs @ 1.240"	480 lbs	1.130"	.660"
S10011	Dual w/Damper Chrome Silicon Roller	1.025 1.550	.740 1.135	165 lbs @ 1.950"	465 lbs @ 1.300"	470 lbs	1.150"	.650"
S10012	Dual w/Damper Chrome Silicon Roller	1.025 1.550	.740 1.135	215 lbs @ 1.950"	550 lbs @ 1.270"	460 lbs	1.170"	.680"
S10010	Dual w/Damper Chrome Silicon Roller or Flat	1.040 1.550	.755 1.130	170 lbs @ 1.950"	463 lbs @ 1.275"	435 lbs	1.175"	.675"
S10009	Dual w/Damper Chrome Silicon Hydraulic & Solid	1.005 1.530	.730 1.110	135 lbs @ 1.875"	395 lbs @ 1.225"	400 lbs	1.160"	.650"
S10025	Dual w/Damper Chrome Silicon Flat & Hydraulic	1.005 1.530	.730 1.110	140 lbs @ 1.900"	430 lbs @ 1.250"	440 lbs	1.170"	.650"
S10008	Dual w/Damper Chrome Silicon Flat or Hydraulic	1.005 1.430	.725 1.070	170 lbs @ 1.830"	368 lbs @ 1.210"	320 lbs	1.110"	.620"
S10006	Dual w/Damper Chrome Silicon Hydraulic & Solid	1.005 1.430	.730 1.070	135 lbs @ 1.750"	285 lbs @ 1.200"	275 lbs	1.120"	.550"
S10007	Dual Spring Chrome Silicon Flat or Hydraulic	.925 1.240	.660 .915	130 lbs @ 1.690"	306 lbs @ 1.090"	320 lbs	1.020"	.550"

VALVE SPRINGS

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
CHEVROLET SMALL BLOCK - LS1								
S10042	Outer w/Damper Special Alloy	1.260	.886	130 lbs @ 1.750"	320 lbs @ 1.200"	350 lbs	1.150"	.550"
This Spring requires Ferrea Titanium Retainer # E11020 and Ferrea Spring Seat Locator # SL1030								
S10048	Outer w/Damper Super Alloy	1.260	.880	130 lbs @ 1.750"	370 lbs @ 1.200"	436 lbs	1.040"	.660"
This Spring requires Ferrea Titanium Retainer # E11020 and Ferrea Spring Seat Locator # SL1030								
S10061	Outer w/Damper. Super Alloy Endurance Application	1.270	.890	155 lbs @ 1.750"	420 lbs @ 1.100"	408 lbs	1.060"	.660"
This Spring requires Ferrea Titanium Retainer # E11020 and Ferrea Spring Seat Locator # SL1030								
S99100	Dual Spring. Pro PAC Alloy Endurance Application	.925 1.275	.650 .925	150 lbs @ 1.800"	475 lbs @ 1.100"	464 lbs	1.030"	.700"
This Spring requires Ferrea Titanium Retainer # E12000 and Ferrea Spring Seat Locator # SL1036								
CHEVROLET SMALL BLOCK - LS1/LS7 (5/16 CONVERSION KIT)								
S99101	Dual Spring. Pro PAC Alloy Endurance Application	.925 1.275	.650 .925	150 lbs @ 1.800"	475 lbs @ 1.100"	464 lbs	1.030"	.700"
This Spring requires Ferrea Titanium Retainer #E12001 and Ferrea Spring Seat Locator #SL1036 AND Ferrea Valve Guide #VG1061 (For 5/16 stem diameter valves).								
CHEVROLET SMALL BLOCK - L92								
S99102	Dual Spring. Pro PAC Alloy Endurance Application	.925 1.275	.650 .925	150 lbs @ 1.750"	425 lbs @ 1.150"	458 lbs	1.030"	.700"
This Spring requires Ferrea Titanium Retainer # E12002 and Ferrea Spring Seat Locator # SL1071 AND Ferrea Valve Guide (EXH #VG 1067) and (INT #VG1066)								
	Dual Spring. Pro PAC Alloy Racing Application	.925 1.275	.650 .925	175 lbs @ 1.750"	465 lbs @ 1.150"	483 lbs	1.030"	.700"
This Spring requires Ferrea Titanium Retainer #E12002 and Ferrea Spring Seat Locator #SL1072 AND Ferrea Valve Guide (EXH #VG 1067) and (INT #VG1066)								
FORD 4.6L/5.7L - SOHC V8 - 24 VALVE - 2005-2007								
S10102	Dual Spring-Special Alloy Street/Strip Applications	.819 1.102	.625 .819	95 lbs @ 1.575"	267 lbs @ 1.075"	334 lbs	1.023"	.500"
This Spring requires Ferrea Titanium Retainer #E11069 and BOTH, Ferrea Spring Seat Locator #SL1055 and Factory supplied Spring Seat Locator								

VALVE SPRINGS

COMPATIBLE W/STOCK RETAINERS - HYDRAULIC & SOLID LIFTER APPLICATIONS

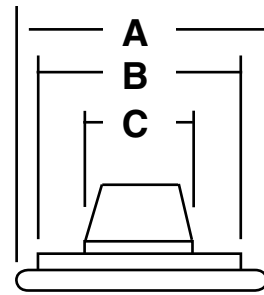
VALVE SPRINGS

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
AMC V-8 360-390-401 CHEVROLET V-8 BIG BLOCK CHRYSLER V-8 383-440 FORD BOSS 302-351 FORD V-8 360-390-429-460								
S10020	Outer w/Damper Chrome Silicon	1.540	1.115	110 lbs @1.875"	300 lbs @1.350"	360 lbs	1.130"	.525"
CHEVROLET V-8 BIG BLOCK								
S10018	Outer w/Damper Chrome Silicon	1.530	1.110	120 lbs @1.875"	290 lbs @1.350"	330 lbs	1.120"	.525"
CHEVROLET V-6 & V-8 SMALL BLOCK BUICK V-6 LATE MODEL								
S10017	Outer w/Damper Chrome Silicon	1.260	.860	115 lbs @1.700"	268 lbs @1.210"	310 lbs	1.160"	.490"
S10024	Outer w/Damper Chrome Silicon	1.260	.886	130 lbs @1.750"	320 lbs @1.200"	350 lbs	1.150"	.550"
FORD WINDSOR V-8 302-351 MOPAR V-8 340-360								
S10019	Outer w/Damper Chrome Silicon	1.490	1.076	130 lbs @1.700"	320 lbs @1.200"	370 lbs	1.100"	.500"



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TITANIUM RETAINERS



Retainers Typical Profile

Ferrea is pleased to introduce our **New Pro-Series Titanium Retainer** with the addition of applications for the Import Car Program. Precision CNC-machined from aerospace quality titanium, these **Pro Retainers** are fully heat-treated, finished to exact tolerance, adding strength, yet offering a 40% weight reduction over conventional steel retainers. We have available applications for 6, 7 and 10 degrees. Examine the overall quality of **Ferrea's New Pro-Series Retainers** and see why professional engine builders demand **Ferrea** Racing Components.

Part N°	Val.Stem Size	Diam.(A)	Out Step Diam.(B)	Inn Step Diam.(C)	References
RETAINERS "SUPER 7°"					
E12024	ALL	.990	-	.640	Beehive Spring. - Pro CNC Retainer Ferrea Racing Spring # S2012
E12003	ALL	1.050	-	.640	Beehive Spring. - Pro CNC Retainer Ferrea Racing Spring # S2003 & # S2004
E12023	ALL	1.130	-	.730	Beehive Spring. - Pro CNC Retainer Ferrea Racing Spring # S2005 & # S2006
E11047	ALL	1.495	1.165	.835	Double Spring. Pro CNC Ferrea Racing Springs #S10076 & #S10077
E10077	ALL	1.500	1.160	.700	Double Spring. Pro CNC Retainer
E11007	ALL	1.500	1.140	.744	Dble Spring. Pro CNC Retainer
E11009	ALL	1.500	1.185	.777	Dble Spring. Pro CNC Retainer
E11004	ALL	1.500	1.115	.725	Double Spring. Pro CNC Retainer
E11019	ALL	1.500	1.095	.880/.640	Triple Spring. Pro CNC Retainer.
E11019LW	ALL	1.500	1.195	.880/.640	Triple Spring. Pro CNC Retainer. 16.5 grs.
RETAINERS "7 DEG."					
E12025	11/32	.990	-	.640	Beehive Spring. - Pro CNC Retainer. Ferrea Racing Spring # S2012
E10009	5/16	1.370	1.060	.725	Double Spring
E10010	11/32	1.370	1.060	.725	Double Spring
RETAINERS "10 DEG."					
E12007	ALL	.990	-	.640	Beehive Spring. - Pro CNC Retainer Ferrea Racing Spring # S2012
E12006	ALL	1.050	-	.640	Beehive Spring. - Pro CNC Retainer Ferrea Racing Spring # S2003 & # S2004
E12012	ALL	1.120	-	.725	Beehive Spring. - Pro CNC Retainer Ferrea Racing Spring # S2005 & # S2006
E11076	ALL	1.440	1.065	.700	Double Spring. Pro CNC Retainer
E11006	ALL	1.500	1.115	.725	Double Spring. Pro CNC Retainer
E11008	ALL	1.500	1.195	.880/.640	Triple Spring. Pro CNC Retainer
E11008LW	ALL	1.500	1.195	.880/.640	Triple Spring Pro CNC Retainer. 17 grs.
E11016	ALL	1.500	1.140	.744	Double Spring. Pro CNC Retainer

TITANIUM RETAINERS

Part N°	Val.Stem Size	Diam.(A)	Out Step Diam.(B)	Inn Step Diam.(C)	References
CHEVROLET SMALL BLOCK - LS1/LT1					
E12014	.313	1.025	-	.642	Beehive Spring. - 7° Pro CNC Retainer Ferrea Racing Spring # S2000, # S2001 & # S2002 Ferrea Valve Lock # K10058
E12000	.313	1.210	.927	.650	Dble Spring-7 deg Pro CNC Retainer. Ferrea Racing Spring # S99100 and Ferrea Valve Lock # K10058
CHEVROLET SMALL BLOCK - LS1/LS7 (5/16 CONVERSION KIT)					
E12001	5/16	1.210	.927	.660	Dble Spring. Pro CNC Retainer. "SUPER 7" Ferrea Racing Spring # S99101 and Ferrea Valve Lock # K10042
CHEVROLET SMALL BLOCK - L92					
E12002	.313	1.210	.927	.650	Dble Spring. Pro CNC Retainer. " 7 DEG" Ferrea Racing Spring # S99102 and Ferrea Valve Lock # K10058
CHRYSLER/DODGE HEMI 5.7/6.1L					
E12008	.3125	1.150	-	.620	Beehive Spring. - 7° Pro CNC Retainer Ferrea Racing Spring #S2009. To be used with OEM Valve Lock
FORD 4.6L - 16 VALVE					
E12005	.274	.925	-	.625	Beehive Spring. - 7° Pro CNC Retainer Ferrea Racing Spring # S2010 AND # S2011. To be used with OEM Valve Lock
FORD 4.6L/5.7L - SOHC V8 - 24 VALVE - 2005-2007					
E12015	.235	.900	-	.560	Beehive Spring. - 7° Pro CNC Retainer Ferrea Racing Spring #S2007. To be used with OEM Valve Lock
E11069	.235	1.000	-	.618	Dble Spring-6 deg Pro CNC. Ferrea Racing Spring # S10102 and Ferrea Valve Lock # K10077
FORD 4.6L - 32 VALVE					
E12010	.274	.895	-	.575	Beehive Spring. - 7° Pro CNC Retainer. Ferrea Racing Spring # S2008. To be used with OEM Valve Lock
FORD GT 5.4L - 32 VALVE - 2005-2007					
E12022	.275	.920	-	.635	Beehive Spring. - 7 deg. Pro CNC Retainer. Ferrea Racing Spring # S2016 & # S2017. Use Stock Triple Groove Lock

STEEL RETAINERS



G-memory in CNC-machines allows storage of information to ensure consistency in production, run after run.

Part N°	Val.Stem Size	Diam.(A)	Out Step Diam.(B)	Inn Step Diam.(C)	References
RETAINERS "7 DEG."					
E10012	11/32	1.365	1.060	.735	Double Spring (Use with Ferrea Lock # K10067)
CHEVROLET SMALL BLOCK - LS1/LT1					
E10029	.313	1.025	-	.642	Beehive Spring. - 7° Pro CNC Retainer. Ferrea Racing Spring #S2000, #S2001 and #S2002 Ferrea Valve Lock #K10058
CHRYSLER/DODGE HEMI 5.7L/6.1L					
E10031	.3125	1.150	-	.620	Beehive Spring. - 7° Pro CNC Retainer. Ferrea Racing Spring #S2009. To be used with OEM Valve Lock
FORD 4.6L - 16 VALVE					
E10033	.274	.925	-	.625	Beehive Spring. - 7° Pro CNC Retainer. Ferrea Racing Spring #S2010 and #S2011. To be used with OEM Valve Lock
FORD 4.6L/5.7 - SOHC V8 - 24 VALVE - 2005-2007					
E10032	.235	.900	-	.560	Beehive Spring. - 7° Pro CNC Retainer. Ferrea Racing Spring #S2007. To be used with OEM Valve Lock
FORD 4.6L - 32 VALVE					
E10030	.274	.895	-	.575	Beehive Spring. - 7° Pro CNC Retainer. Ferrea Racing Spring #S2008. To be used with OEM Valve Lock
STOCK ELIMINATOR					
E10034	11/32	.990	-	.640	Beehive Spring. - 7° Pro CNC Retainer. Ferrea Racing Spring #S2012. Ferrea Valve Lock #K10017

TITANIUM VALVE LOCKS

Both, our newly designed **Radial Valve Locks** and **Square Valve Locks**, are made of premium Titanium alloy. The CNC-machined finish and the strict tolerances ensure a precise "lock" on the valve assembly. We offer them in the most popular applications.

Part N°	Specifications
RADIAL VALVE LOCKS "SUPER 7°"	
K11000	7 mm Std.
K11001	7 mm +.050
K11002	5/16 Std.
K11003	5/16 +.050
K11004	11/32 Std.
K11005	11/32 +.050
SQUARE VALVE LOCKS "SUPER 7°"	
K11006	5/16. Std.

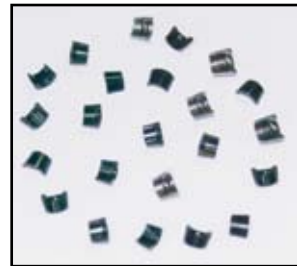


STEEL VALVE LOCKS

Part N°	Specifications
VALVE LOCKS "SUPER 7°"	
K10046	7 mm Std. Radial Groove
K10047	7 mm +.050. Radial Groove. Recess for lash caps
K10000	5/16 Std.
K10042	5/16 Std. Radial Groove
K10001	5/16 + .050
K10050	5/16 +.050. Recess for lash caps
K10043	5/16 +.050. Radial Groove. Recess for lash caps
K10003	11/32 Std.
K10044	11/32 Std. Radial Groove
K10004	11/32 + .050
K10045	11/32 +.050. Radial Groove. Recess for lash caps
K10006	3/8 Std.
K10007	3/8 + .050
VALVE LOCKS "7 DEG."	
K10085	7 mm Std. Radial Groove
K10086	7 mm Std. Radial Groove. Shoulder Locks
K10016	5/16 Std.
K10058	.313 Std. Radial Groove. LS1, LS6, LS7 and L92
K10017	11/32 Std.
K10067	11/32. Radial Groove Std. Specially designed for Ferrea Hollow Stem Valves Series
K10018	3/8 Std.
VALVE LOCKS "10 DEG."	
K10009	5/16 Std.
K10041	5/16 Std. Recess for lash caps
K10010	5/16 + .050
K10039	5/16 Std. Radial Groove. Recess for lash caps
K10051	5/16 +.050. Recess for lash caps
K10040	5/16 +.050. Radial Groove. Recess for lash caps
K10011	11/32 Std. Recess for lash caps
K10012	11/32 + .050
K10033	11/32 Std. Radial Groove
K10038	11/32 +.050. Radial Groove. Recess for lash caps
K10014	3/8 Std.
K10015	3/8 + .050
K10032	3/8 Std. Recess for lash caps
FORD 4.6L/5.7 - SOHC V8 - 24 VALVE - 2005-2007	
K10077	.235", Radial Groove

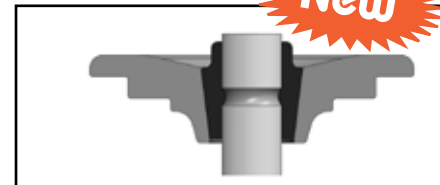
Ferrea

Valve Locks are manufactured from high quality 4140 chromoly bar stock and



machined to exact tolerances. The locks are heat-treated for maximum strength and finished with black oxide for an attractive appearance. Our locks are available for Super 7°, 6°, 7° and 10° applications.

New



Shoulder Valve Lock Design

Our newly designed radial valve locks feature a shoulder which provides extra material for support and protection for those high ratio rocker arm applications. The shoulder provides the stability needed at high RPMs reducing valve tip flex and fatigue.

Note: Shoulder locks can only be used on valves with a tip length of .250" or greater.



- Patent pending Hylomar technology
- Coated with non-setting sealant
- Our keepers stick to the valve stem
- Saves time & aggravation
- Standard & performance versions

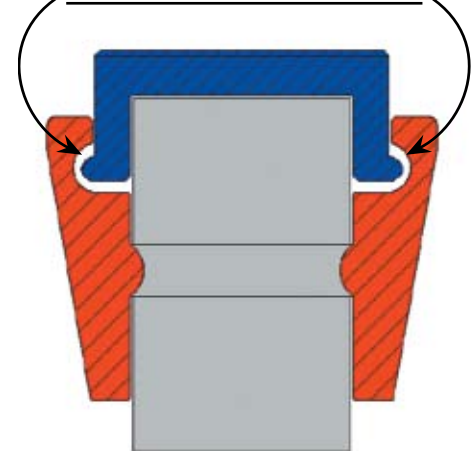
STEEL VALVE SUPERLOCKS

The **Ferrea** Superlocks were designed and developed as a solution for the Top Fuel & Funny Car engine builders experiencing problems of premature wear in the lock and tip area of the valve. This premature wear is attributed mainly to poor geometry of the HEMI motor, and the super high spring pressures present. Our new lock assembly replaces the need for hard tips, by incorporating a special lash cap which is surrounded by a shouldered valve lock which “locks” the valve stem above and below the keeper groove and secures the lash cap to prevent any unwanted movement. This innovative new lock design is the choice of many Drag Racing and Winston Cup engine builders. The **Ferrea** Superlock mates ideally with steel and titanium valves, and is available in Super 7 and 10 degree in standard and +.050 installed heights.

Part N°	Specifications
VALVE SUPERLOCKS "SUPER 7°"	
K10049 (*)	.275 (7 mm) Std. Radial Groove. To be used with Ferrea Lash Caps Part # C10003 or C10005
K10019 (*)	5/16 Std. To be used with Ferrea Lash Caps Part # C10006, C10007, C10009 or C10010
K10048 (*)	5/16 Std. Radial Groove. To be used with Ferrea Lash Caps Part # C10006, C10007, C10009 or C10010
K10020 (*)	11/32 Std. To be used with Ferrea Lash Caps Part # C10012
K10021 (*)	11/32 + .050. To be used with Ferrea Lash Caps Part # C10001
K10027 (*)	11/32 Top Fuel .305 ID. To be used with Ferrea Lash Caps Part # C10012
K10022 (*)	3/8 Std. To be used with Ferrea Lash Caps Part # C10002
(*) It may be used without lash caps. Please specify when you order.	
VALVE SUPERLOCKS "10 DEG." (LASH CAPS WITH LOCKING STEPS)**	
K10023 (*)	5/16 Std. Radial Groove. To be used with Ferrea Lash Caps Part # C10006, C10007, C10009 or C10010
K10054 (*)	5/16 Std. Radial Groove. To be used with Ferrea Lash Caps Part # C10014** , C10015** or C10016**
K10024 (*)	11/32 Std. To be used with Ferrea Lash Caps Part # C10012
K10053 (*)	11/32 Std. Radial Groove. To be used with Ferrea Lash Caps Part # C10012
K10055 (*)	11/32 Std. Radial Groove. To be used with Ferrea Lash Caps Part # C10017**
K10025 (*)	11/32 + .050. To be used with Ferrea Lash Caps Part # C10001
K10028 (*)	11/32 Top Fuel .305 ID. To be used with Ferrea Lash Caps Part # C10012
K10026 (*)	3/8 Std. To be used with Ferrea Lash Caps Part # C10002
(*) It may be used without lash caps. Please specify when you order.	



Specially designed “Lash Cap” with a **Step Locking Mechanism**



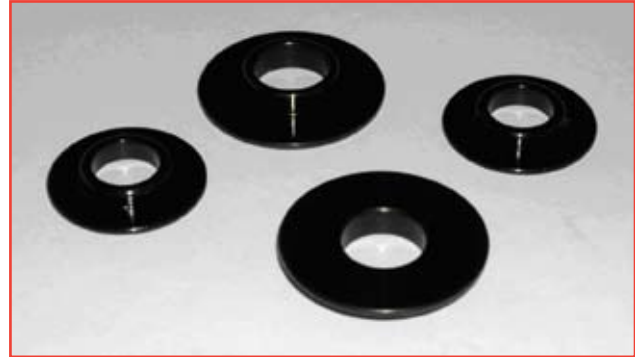
New

SPRING SEAT LOCATORS

New

To complete the Valve-Train Kit Ferrea offers premium quality Spring Seat Locators.

Ferrea takes great pride in fully CNC machining in-house from 4140 chromoly alloy for different applications. Each piece is crafted to exact tolerances OD & ID specs and insure flat, parallel spring pad to the bottom surface. Heat treatment consists of a hard Nitrided surface for unmatched toughness and anti-wear characteristics. We also offer custom manufacturing capability to meet your specifications.



Part N°	Locator Thickness	Locator O.D.	Locator I.D.	Spring O.D.	Spring I.D.	References
CHEVROLET BIG BLOCK						
SL1074	.060	1.490	.570	1.445	1.000	Required for Ferrea Springs #S2003 and #S2004
SL1077	.060	1.490	.630	1.445	1.000	Required for Ferrea Springs #S2003 and #S2004
CHEVROLET SMALL BLOCK - LS1/LT1						
SL1080	.060"	1.300"	.505"	1.290	.885	Required for Ferrea Springs #S2000, #S2001
SL1030	.090"	1.245"	.505"	N/A	.870"	Required for Ferrea Springs # S10042, #S10048, and #S10061
SL1036	.060"	1.245"	.505"	N/A	.635"	Required for Ferrea Springs #S10075, #S99100
CHEVROLET SMALL BLOCK - LS1/LS7 (5/16 CONVERSION KIT)						
SL1066	.060"	1.245"	.562"	N/A	.660"	Required for Ferrea Springs # S99101 and Ferrea Valve Guide #VG1061.
CHEVROLET SMALL BLOCK - L92						
SL1071	.060"	1.240"	.505"	N/A	.650"	Required for Ferrea Springs # S99102.Valve Guides Ferrea (EXH #VG1067) and (INT #VG1066) OR Factory supplied Valve Guides
SL1072	.060"	1.240"	.505"	N/A	.650"	Required for Ferrea Springs # S99102.Valve Guides Ferrea (EXH #VG1067) and (INT #VG1066) OR Factory supplied Valve Guides. This seat locator is designed with a step for HIGH PRESSURE
CHRYSLER/DODGE HEMI 5.7/6.1L						
SL1079	.045"	1.375"	.665"	1.210	.805"	Required for Ferrea Springs #S2009 Seat Locator and Valve Seal one piece assembly
ENDURANCE HIGH LIFT						
SL1075	.060	1.590	1.130	1.589	1.135	Required for Ferrea Springs #S2006
FLAT TAPPET & HYDRAULIC ROLLER						
SL1083	.060	1.450	.980	1.445	.990	Required for Ferrea Springs #S2005
FORD 4.6L - 16 VALVE						
SL1076	.040	1.107	.650	1.061	.698/.738	Required for Ferrea Springs #S2010, #S2011 Seat Locator and Valve Seal one piece assembly

SPRING SEAT LOCATORS

Part N°	Locator Thickness	Locator		Spring		References
		O.D.	I.D.	O.D.	I.D.	
FORD 4.6L/5.7L - SOHC V8 - 24 VALVE - 2005-2007						
SL1088	.040	1.061	.585	1.025	.662	Required for Ferrea Springs #S2007 Seat Locator and Valve Seal one piece assembly
SL1055	.295	1.106	.660	N/A	.818	Required for Ferrea Springs #S99102
FORD 4.6L - 32 VALVE						
SL1086	.035	1.110	.635	1.105	.742	Required for Ferrea Springs #S2008 Seat Locator and Valve Seal one piece assembly
FORD GT 5.4L - 32 VALVE - 2005-2007						
SL1087	.040	1.107	.650	1.061	.698/.738	Required for Ferrea Springs #S2016, #S2017 Seat Locator and Valve Seal one piece assembly
STOCK ELIMINATOR						
SL1078	.060	1.250	.535	1.250	.845	Required for Ferrea Springs #S2012
SL1081	.060	1.250	.570	1.250	.845	Required for Ferrea Springs #S2012
SL1085	.060	1.250	.630	1.250	.845	Required for Ferrea Springs #S2012

LASH CAPS

Our **Ferrea** Lash Caps are machined from 4140 chromoly alloy. Each piece is specially heat-treated for maximum strength and finished with black oxide for an attractive finish. These parts are available for most applications in various sizes.

Part N°	Specifications
LASH CAPS	
C10004	5.5 mm - .216 ID - .100 Deep
C10008	6 mm - .2358 ID - .085 Deep
C10011	6.08 mm - .239 ID - .120 Deep Ford Focus 2.0L (for Valve Stem Stock size)
C10003	7 mm - .274 ID - .110 Deep
C10005	7 mm - .274 ID - .160 Deep. To be used with Superlock
C10006	5/16 - .308 ID - .115 Deep. To be used with Superlock
C10007	5/16 - .308 ID - .160 Deep. To be used with Superlock
C10014*	5/16 - .309 ID - .115 Deep. Only for valves with .200 tip length. To be used with Ferrea Lock #K10054
C10015*	5/16 - .309 ID - .163 Deep. Only for valves with .250 tip length. To be used with Ferrea Lock #K10054
C10010	5/16 - .310 ID - .115 Deep. To be used with Superlock
C10009	5/16 - .310 ID - .160 Deep. To be used with Superlock
C10016*	5/16 - .310 ID - .163 Deep. Only for valves with .250 tip length. To be used with Ferrea Lock #K10054
C10000	5/16 Std.
C10018	.3135 - .315 ID - .125 Deep. Only for valves with .250 tip length. To be used with Ferrea Lock #K10058
C10001	11/32 Std.
C10012	11/32 - .3415 ID - .460 OD - .160 Deep. To be used with Superlock
C10017*	11/32 - .3415 ID - .163 Deep. Only for valves with .250 tip length. To be used with Ferrea Lock #K10055
C10002	3/8 Std.
*Lash Caps with a "locking step"	

COPPER ALLOY VALVE GUIDES

New

New



Ferrea Super Copper Alloy Valve Guides reflect the highest level of technology applied to produce valve guides.

We proudly introduce the next generation of **extreme heat resistant valve guides**, specifically developed to withstand the Supercharged, Turbocharged, Nitrous Oxide, Dual Power Adders, or 9.0 compression restricted race motors.

We have developed a proprietary processed **high copper-based alloy** combined with other key elements and a **unique heat-treatment process**, which yields extreme heat resistance and vast heat dissipation properties.

All our valve guides are **CNC precision-machined** to exact tolerances. They are ideal for **exhaust applications and are compatible with Stainless and Titanium Valves**.

Part N°	Specifications
BIG & SMALL BLOCK (7 MM & 5/16)	
VG1052	Exhaust 7 mm. OD .502". O/A Length 2.240" - Valve seal .520" (ID)
VG1053	Exhaust 7 mm. OD .503". +.001" oversize. O/A Length 2.240" - Valve seal .520" (ID)
VG1055	Exhaust 5/16. OD .502". O/A Length 2.240" - Valve seal .530" (ID)
PRO STOCK	
VG1060	Exhaust & Intake .309". OD .502". O/A Length 3.500" - Valve seal ID .625" x .800"

MANGANESE BRONZE VALVE GUIDES

Ferrea Manganese Bronze Valve Guides are precision-machined from high quality, manganese bronze material. They are ideal for both intake and exhaust applications, and are compatible with Stainless and Titanium Valves.



Part N°	Specifications
18 BRODIX - SMALL BLOCK	
VG1017	Exhaust & Intake 11/32. OD .545". O/A Length 2.000" - Valve seal .530 (ID)
3 & 5 BRODIX - SMALL BLOCK	
VG1018	Exhaust & Intake 11/32. OD .545". O/A Length 2.250" - Valve seal .530 (ID)
2 BRODIX - SMALL BLOCK	
VG1019	Exhaust & Intake 11/32. OD .545". O/A Length 2.375" - Valve seal .530 (ID)
9 BRODIX - BIG BLOCK	
VG1019	Exhaust & Intake 11/32. OD .545". O/A Length 2.375" - Valve seal .530 (ID)
BIG & SMALL BLOCK (7 MM , 5/16 & 11/32)	
VG1008	Intake 7 mm. OD .502". O/A Length 2.600" - Valve seal .520" (ID)
VG1054	Intake 7 mm. OD .503" + .001" oversize. O/A Length 2.600" - Valve seal .520" (ID)
VG1009	Exhaust 7 mm. OD .502". O/A Length 2.240" - Valve seal .520" (ID)
VG1032	Intake 7 mm. OD .545". O/A Length 2.375" - Undersize.060" (for more valve lift). Valve seal .500" (ID)
VG1033	Exhaust 7 mm. OD .545". O/A Length 2.250" - Undersize.060" (for more valve lift). Valve seal .500" (ID)
VG1010	Intake 5/16. OD .502". O/A Length 2.600" - Valve seal .530" (ID). Use Ferrea Valve Seal Part# VS1020
VG1010B	Intake 5/16. OD .502". O/A Length 2.600" - Valve seal .500" (ID). Use Ferrea Valve Seal Part# VS1021
VG1011	Exhaust 5/16. OD .502". O/A Length 2.240" - Valve seal .530" (ID)
VG1070	Exhaust 5/16. OD .502" Length 2.240" - Valve seal .500" (ID)
VG1012	Intake 11/32. OD .502". O/A Length 2.600" - Valve seal .530" (ID)
VG1012	Intake 11/32. OD .502". O/A Length 2.600" - Valve seal .530" (ID)
VG1014	Exhaust 11/32. OD .502". O/A Length 2.240" - Valve seal .530" (ID)
VG1029	Intake 11/32. OD .502". O/A Length 2.600" - Valve seal .500" (ID). Blank, no-taper on end.
VG1030	Exhaust 11/32. OD .502". O/A Length 2.240". Valve seal .500" (ID). Blank, no-taper on end.

MANGANESE BRONZE VALVE GUIDES

Part N°	Specifications
CHEVROLET SMALL BLOCK - LS1	
VG1020	Exhaust & Intake .3138. OD .502". O/A Length 2.000" - Valve seal .500 (ID) (for double spring)
CHEVROLET SMALL BLOCK - LS1/LS7 (5/16 CONVERSION KIT)	
VG1061	Exhaust & Intake 5/16 OD .502". O/A Length 2.000" - Valve seal .500 Use Ferrea Valve Seal Part# VS1021
CHEVROLET SMALL BLOCK - L92	
VG1067	Exhaust. OD .501" Length 2.000" -/ Valve seal .500 (ID). Use Ferrea Valve Seal Part# VS1021
VG1066	Intake. OD .501" Length 2.000" -/ Valve seal .500 (ID). Use Ferrea Valve Seal Part# VS1021
DART (CAST IRON HEAD)	
VG1022	Exhaust & Intake 11/32. OD .502". O/A Length 2.746". Replacement for Factory supplied Iron guide - Valve seal .500 (ID)
GM DART & WORLD PRODUCTS (CAST IRON HEAD)	
VG1021	Exhaust & Intake 11/32. OD .502". O/A Length 2.000" - Undersize .060 (for more valve lift) - Valve seal .500 (ID) (for double spring)
PRO STOCK	
VG1024	Exhaust & Intake .309". OD .502". O/A Length 3.500" - Valve seal ID .625" x .800

VALVE SEALS



BIG & SMALL BLOCK (5/16, 8MM)

VS1020	Exhaust & Intake 5/16-8 mm valve stem. Viton rubber compound. Hi Temp. .530" ID. Use Ferrea Valve Guides # VG1011, #VG1055, #VG 1066 AND #VG1067
VS1021	Exhaust & Intake 5/16-8 mm valve stem. Viton rubber compound. Hi Temp. .500" ID. Use Ferrea Valve Guide # VG1011, #VG1061, #VG1055, #VG1066, AND #VG1067

COMPETITION CYLINDER HEAD GASKETS

The New **Ferrea Competition Gaskets** are manufactured with an internal *Solid Steel Plate* covered on both sides with a thin *Non-Asbestos Compound* (a Ferrea exclusive compound), which resists extreme temperatures. The *Solid Steel Plate* is treated with a non-corrosive material at high temperature. These three components are subject to a compression process at high pressure (double the normal engine torque pressure), to provide superior strength to the gasket.



The gasket features a wide *Stainless Steel Combustion Seal* on the gaskets's bore, that will ensure the absence of any marks or grooves after use on aluminum cylinder heads, but also retain strength for those demanding high cylinder pressure applications.

This is a permanent torque gasket and it comes with a silicone sealant applied for immediate use.

Part Number	Bore Size	Compressed Thickness	References
CHEVROLET BIG BLOCK			
G50009	4.350	.038	Generation IV & Bow Tie
G50024	4.350	.040	Mark V & Bow Tie
G50011	4.400	.038	Generation IV & Bow Tie
G50025	4.400	.040	Mark V & Bow Tie
G50002	4.525	.045	Generation IV & Bow Tie
G50023	4.525	.040	Marine application
G50026	4.525	.040	Mark V & Bow Tie
G51001	4.525	.038	Generation IV & Bow Tie
G52001	4.525	.045	Generation IV & Bow Tie
G50027	4.560	.040	Mark V & Bow Tie
G50003	4.625	.045	Mark V & Bow Tie
G50006	4.625	.040	Generation IV & Bow Tie
G50028	4.630	.040	Mark V & Bow Tie
G50008	4.640	.038	Marine application
CHEVROLET SMALL BLOCK			
G50010	4.065	.045	Bore standard size. Eng: 262-265-283-302-307-327-350
G50021	4.065	.035	Bore standard size. Eng: 262-265-283-302-307-327-350
G50029	4.065	.040	Bore standard size. Eng: 262-265-283-302-307-327-350
G50000	4.125	.045	Bore oversized. Eng: 262-265-283-302-307-327-350
G51000	4.125	.037	Bore oversized. Eng: 262-265-283-302-307-327-350
G52000	4.125	.040	Bore oversized. Eng: 262-265-283-302-307-327-350
G50030	4.150	.035	Bore oversized. Eng: 262-265-283-302-307-327-350
G50031	4.150	.045	Bore oversized. Eng: 262-265-283-302-307-327-350
G50001	4.190	.045	Bore oversized. Eng: 262-265-283-302-307-327-350
G50007	4.205	.035	Bore oversized. Eng: 262-265-283-302-307-327-350

COMPETITION CYLINDER HEAD GASKETS

Part Number	Bore Size	Compressed Thickness	References
CHEVROLET V-6			
G50004	4.178	.045	
CHEVROLET 250 (6 CYL. "IN LINE")			
G50005	4.070	.040	
CHRYSLER SMALL BLOCK 318 - 340 - 360			
G50022	4.055	.040	
FORD 2.000 cc.			
G50100	3.660	.040	
G50103	3.660	.030	
FORD 2.300 cc.			
G50101	3.840	.040	
G50102	4.000	.040	
FORD 260 - 289 - 302 (5.0) - 351W			
G50053	4.085	.040	Set of 2 (Left & Right Side)
FORD 302 SVO - 351 W SVO			
G50017	4.125	.040	
G50018	4.180	.040	
FORD 3040 - 351W SVO (NASCAR)			
G50052	4.085	.040	Set of 2 (Left & Right Side)
FORD BIG BLOCK 429 - 460			
G50012	4.525	.040	
G50014	4.680	.040	
FORD BOSS, CLEVELAND 302 - 351 - 400			
G50019	4.125	.040	
FORD FE 352 THROUGH 428 SCJ			
G50020	4.400	.040	

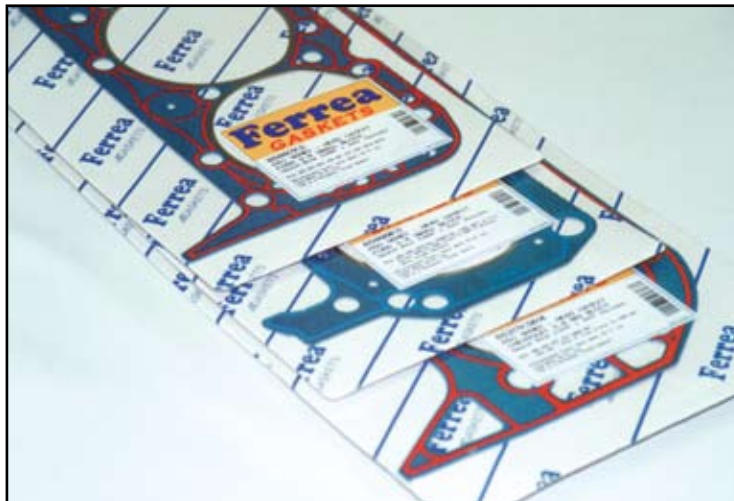


HI PERFORMANCE GASKETS

For the coming season **Ferrea** introduces a **NEW High Performance Gasket Series (Cylinder Head Gaskets and Valve Cover Gaskets)**. The production of this new series follows the same strict quality standard that we apply to our competition products.

Cylinder Head Gaskets

Ferrea manufactures this New **High Performance Gasket** with an internal *Perforated Steel Plate* that gives strength and flexibility to the gasket. The Perforated Steel Plate is covered on both sides with a *Non-Asbestos Hi Temp Compound* (a Ferrea exclusive compound). The gasket also has a *Steel Combustion Seal* to support the critical area of the combustion chamber. Similar to our Competition Gasket, this is a permanent torque gasket and it comes with a silicone sealant applied for immediate use.



Part Number	Bore Size	Compressed Thickness	References
CHEVROLET V-8 BIG BLOCK			
85217KSM4	4.370	.045	Eng: 396-402-427-454 (1965-84) 454 Gen / Mark IV Truck & Bow Tie (1965-90) Recommended Torque: Short Bolts 70 Ft.Lbs., Long Bolts 78 Ft.Lbs.
85217KSM5	4.370	.045	Eng: 454-502 Gen / Mark V. Gen / Mark IV Truck & Bow Tie (1991-99). Recommended Torque: Short Bolts 70 Ft.Lbs., Long Bolts 78 Ft.Lbs.
CHEVROLET V-8 SMALL BLOCK			
85097KS	4.080	.045	Eng: 262-265-283-302-307-327-350 (1955-99) Recommended Torque: Short Bolts 70 Ft.Lbs., Long Bolts 75 Ft.Lbs.
FORD - MERCURY V-8			
85099KSHD	4.080	.045	Eng: 260-289 (H.D. & Racing) 1962-1968 302 (5.0 L) High Output 1982-1985 Recommended Torque: Upper Bolts 75 Ft.Lbs., Lower Bolts 70 Ft.Lbs.
FORD V-8 SMALL BLOCK			
85099KS	4.080	.045	Eng: 260-289-302 (5.0 L)-351W (5.8 L) (1962-1997) & Truck, except 1982-85 High Output & 1969-71 Mustang, Boss, Cougar Eliminator. Recommended Torque: Upper Bolts 75 Ft.Lbs., Lower Bolts 70 Ft.Lbs.

HI PERFORMANCE GASKETS

Valve Cover Gaskets

The materials used in the production of **Ferrea** New **Valve Cover Gaskets** are an exclusive mix of *Silicone-Rubber* with a *Cork Compound*. This formula creates a high-grade material that is resistant to temperature and lubricants.



Part Number

References

CHEVROLET V-8 BIG BLOCK

90297CP

Eng: 396-402-427-454 (1965-84).
454 Gen / Mark IV Truck & Bow Tie.
454-502 Gen / Mark V.
Material : Rubber & Cork Compound

CHEVROLET V-8 SMALL BLOCK

90273CR

Eng: 262-265-267-283-302-307-327-350-400 (1955-96).
Material: Rubber & Cork Compound

FORD V-8 SMALL BLOCK

90261CP

Eng: 260-289-302 (5.0 L)-351W (5.8 L) (1962-1997).
Material: Rubber & Cork Compound

90457CQ

Eng: 302 Boss (1969-71). 351C-351M-400 (1970-79). Truck 351M-400 (1977-82)
Material: Rubber & Cork Compound

PONTIAC V-8 ALUMINUM HEAD (8 Bolts)

90458AG

Eng: Chevrolet Big Block V-8 - Pontiac Aluminum Head
Material: Rubber & Cork Compound

HI PERFORMANCE GASKETS

Head Kits

Part Number	References
BUICK-CHEVROLET V-8-CHEVROLET-GMC TRUCK V-8-OLDSMOBILE V-8-PONTIAC V-8	
85311NA	Buick, Oldsmobile V-8: 350 (5.7L) Eng VIN G, L (1977-79) Chevrolet V-8: 265, 283 (Except FI), 302, 307, 327 (Except Spec HP), 350 (5.7L) (1975-80) Chevrolet, GMC Truck V-8: 265, 283, 307, 327, 350 (1955-80), 350 (Medium Duty 1981-88) Pontiac V-8: 307 (5.0L) (1971-72), 350 (5.7L) Eng VIN L (1977-79)
CHEVROLET V-8-CHEVROLET-GMC TRUCK V-8	
85312NA	Chevrolet V-8: 396 (1965-70), 400 Big Block (1970-72), 427 (1966-69), 454 (1970-76) Chevrolet, GMC Truck V-8: 366 (1966-84), 396 (1968-70), 400 Big Block (1971-72), 427 (1968-73), 454 (1973-79)
FORD V-8	
85314NA	Ford V-8: 302 (5.0L) (1985-90)
FORD V-8-FORD TRUCK V-8-LINCOLN V-8-MERCURY V-8	
85313NA	Ford V-8: 260, 289 (1962-68), 302 (5.0L) (1968-85) Except Hi Output & Mustang Boss 1969-71 Ford Truck V-8: 289 (1966-68), 302 (5.0L) (1969-87) Lincoln V-8: 302 (5.0L) 1977-85 Mercury V-8: 260, 289, (1962-68), 302 (5.0L) (1968-85) Except Cougar Eliminator 1969-71

Engine Kits

Part Number	References
CHEVROLET-GMC V-8-STUDEBAKER V-8 (For Passenger Vehicles & Trucks)	
85215NA	Chevrolet-GMC V-8: 265, 283, 302, 327 (1957-73), 350 (5.7L) (VIN L 1967-80) Studebaker V-8: 283 (1965-66)
85216NA	Chevrolet-GMC V-8: 265, 283, 302 (5.0 L), 307, 327 (Exc. F.I. & Hi-Per), 350 (5.7L) (VIN L 1967-80) (1955-1985) Studebaker V-8: 283 (1965-66) Chevrolet: 350 (5.7L) (1981-86) Excl. Corvette

FORGED AND CNC MACHINED STEEL COMPETITION WRIST PINS

Our **Steel Competition Wrist Pins** are **forged** from special **aerospace quality steel alloy**. Special **heat-treatment, ground and rolled exterior**, and **radius edges** ensure strength and reliability. Each pin is then **individually ultrasonic tested** as a part of our Quality Control.

The New **Pro-Series Wrist Pin**, made from ultra light, H-13 tool steel alloy, provides increased durability and longer life over other alloys. The new **H-13 Pro Pins** feature a superior surface finish for reduced wear on piston pin bores. These pins are CNC-machined to unparalleled tolerances and must pass a stringent quality control process. Available for spiral locks and/or chamfered for wire locks.



Compared to the machined piece, **our forged pin** presents a better molecular compactness, with the steel structure following the shape of the piece. In the machined pin, the material is cut by the machining process, increasing the risk of failure in the pin's critical area.

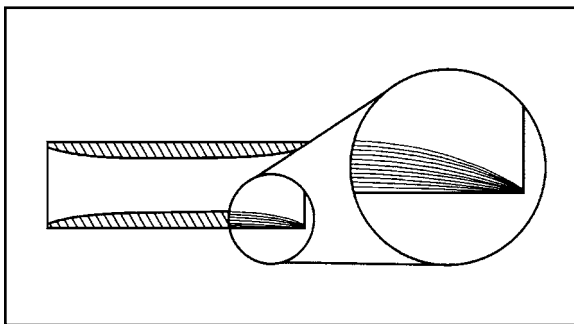


Fig. 1 Forged Wrist Pin

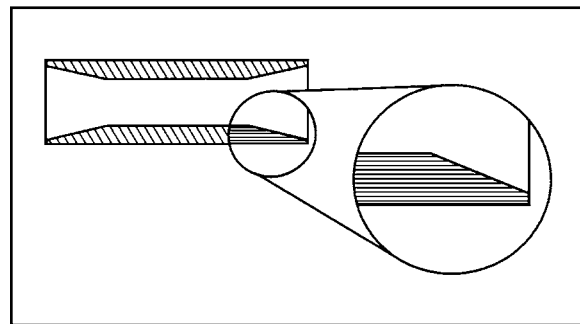


Fig. 2 Machined Wrist Pin

The difference in the material structure can be seen in fig. 1, which shows the cross section of **our forged wrist pin**, and in fig. 2, which shows the cross section of a machined pin.

FORGED AND CNC MACHINED STEEL COMPETITION WRIST PINS

Part Number	Diameter	Length	Wall Thickness	Weight	References
CHEVROLET BIG BLOCK					
P70060	.990	2.500	.168	123 grs.	Special Alloy. Ray Barton
P70051	.990	2.750	.165	134 grs.	H13 Special Alloy. Chamfered for wire locks.
P70005	.990	2.930	.150	130 grs.	Special Alloy
P70017	.990	2.930	.160	163 grs.	Straight Wall
P70028	.990	2.930	.168	138 grs.	Special Alloy
P70029	.990	2.930	.230	179 grs.	Nitrous applications
P70053	.990	2.930	.150	146 grs.	H13 Special Alloy.
P70059	.990	2.930	.180	154 grs.	H13 Special Alloy.
P70014	.990	3.000	.150	133 grs.	Special Alloy
P70026	.991	2.930	.150	132 grs.	Special Alloy
P70027	.992	2.930	.150	133 grs.	Special Alloy
P70022	.993	2.930	.150	129 grs.	Special Alloy
P70023	.994	2.930	.150	134 grs.	Special Alloy
CHEVROLET SMALL BLOCK					
P70000	.927	2.500	.148	104 grs.	Special Alloy
P70018	.927	2.500	.150	119 grs.	Straight Wall
P70030	.927	2.500	.125	95 grs.	Ultra Light. Special Alloy
P70045	.927	2.500	.125	92 grs.	H13 (Special Alloy)
P70048	.927	2.500	.130	100 grs.	H13 Special Alloy
P70050	.927	2.500	.109	87 grs.	H13 Special Alloy (Ultra Light)
P70054	.927	2.500	.150	105 grs.	H13 Special Alloy. Chamfered for wire locks.
P70057	.927	2.500	.150	106 grs.	H13 Special Alloy.
P70145	.927	2.500	.125	94 grs.	H13 Special Alloy. Chamfered for wire locks.
P70002	.927	2.750	.148	116 grs.	Special Alloy
P70019	.927	2.750	.150	131 grs.	Straight Wall
P70032	.927	2.750	.125	105 grs.	Ultra Light. Special Alloy
P70046	.927	2.750	.125	104 grs.	H13 (Special Alloy)
P70049	.927	2.750	.109	96 grs.	H13 Special Alloy (Ultra Light)

FORGED AND CNC MACHINED STEEL COMPETITION WRIST PINS

Part Number	Diameter	Length	Wall Thickness	Weight	References
CHEVROLET SMALL BLOCK					
P70055	.927	2.750	.150	117 grs.	H13 Special Alloy. Chamfered for wire locks.
P70058	.927	2.750	.150	117 grs.	H13 Special Alloy.
P70146	.927	2.750	.125	104 grs.	H13 Special Alloy. Chamfered for wire locks.
P70003	.927	2.950	.148	126 grs.	Special Alloy
P70020	.927	2.950	.150	141 grs.	Straight Wall
P70031	.927	2.950	.125	114 grs.	Ultra Light. Special Alloy
P70041	.927	3.000	.145	136 grs.	Straight Wall
P70001	.928	2.500	.148	104 grs.	Special Alloy
P70033	.928	2.500	.125	91 grs.	Ultra Light. Special Alloy
P70011	.928	2.750	.148	116 grs.	Special Alloy
P70004	.928	2.950	.148	126 grs.	Special Alloy
P70036	.928	2.950	.125	111 grs.	Ultra Light. Special Alloy
P70010	.929	2.500	.148	104 grs.	Special Alloy
P70034	.929	2.500	.125	92 grs.	Ultra Light. Special Alloy
P70021	.929	2.750	.148	120 grs.	Special Alloy
P70056	.929	2.750	.150	117 grs.	H13 Special Alloy. Chamfered for wire locks.
P70012	.929	2.950	.148	126 grs.	Special Alloy
P70037	.929	2.950	.125	111 grs.	Ultra Light. Special Alloy
P70035	.930	2.500	.125	92 grs.	Ultra Light. Special Alloy
P70038	.930	2.500	.148	108 grs.	Special Alloy
P70025	.930	2.950	.148	125 grs.	Special Alloy
FORD					
P70024	.912	2.500	.125	100 grs.	Special Alloy
P70062	.912	2.500	.125	97 grs.	H13 Special Alloy
P70047	.912	2.700	.115	87 grs.	H13 (Special Alloy)
P70052	.912	2.750	.109	95 grs.	H13 Special Alloy (Ultra Light)
P70063	.912	2.750	.125	107 grs.	H13 Special Alloy
MOTORCYCLES					
PM70042	17 mm	2.430	.115	61 grs.	Special Alloy
PM70043	18 mm	2.470	.115	66 grs.	Special Alloy
PM70044	18 mm	2.470	.200	100 grs.	Nitrous/Supercharged
SPECIAL SIZES					
P70009	.866	2.500	.118	78 grs.	Special Alloy
P70016	.990	3.125	.170	143 grs.	Special Alloy
P70040	1.031	2.750	.150	128 grs.	Special Alloy
P70006	1.031	2.850	.150	134 grs.	Special Alloy
P70061	1.032	2.750	.160	141 grs.	H13 Special Alloy. Camfered for wire locks. Special Heat Treat
P70007	1.040	3.125	.150	150 grs.	Special Alloy
P70039	1.094	2.750	.180	160 grs.	Special Alloy
P70008	1.094	3.100	.180	184 grs.	Special Alloy
P70015	1.094	3.100	.250	232 grs.	Nitrous applications

FORGED / CNC MACHINED STEEL COMP WRIST PINS



SPORT COMPACT

APPLICATIONS



**ENGINEERING
TO EXCELLENCE**

FOR HIGH QUALITY VALVETRAIN COMPONENTS

Ferrea
RACING COMPONENTS

SPORT COMPACT SUPER ALLOY VALVES

Ferrea Super Alloy Valves represent the highest level of sophistication in valve technology. We proudly introduced the next generation of **extreme heat resistant valves**, specifically developed to withstand the brutal punishment, which is setting the standard for all **Turbocharged, Supercharged, Nitrous Oxide**, and compression **restricted race motors**.

For the **Sport Compact Cars** we have introduced our New **Super Alloy Import-Tuner Valve program**. These valves are specifically designed for use in racing engines that are subjected to **extreme exhaust temperatures**. No other valve on the market has been designed with the

Tribological consideration as our Super Alloy Valves have for these specific applications. Once again



Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE (B17A1) - 1992-1993						
ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE (B18C1-C3) - 1994-2000						
F1449P	E	28 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo Stock size. Super Alloy
F1447P	E	28.5 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - .5 mm oversize. Super Alloy
F1445P	E	29 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - 1 mm oversize. Super Alloy
ACURA INTEGRA LS-GS 1.8L - DOHC 16 VALVE (B18A1-B1) - 1990-2000						
F1815P	E	28 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - Stock size. Super Alloy
F1488P	E	28.5 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - .5mm oversize. Super Alloy
F1489P	E	29 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - 1mm oversize. Super Alloy
ACURA RSX 2.0L - DOHC V-TEC 16 VALVE (K20) - 2001-2006						
F1546P	E	30 mm	5.45 mm	108.7 mm	2 mm	30° Flo Dish Head. Stock size. Super Alloy
F1547P	E	31 mm	5.45 mm	108.7 mm	2 mm	30° Flo Dish Head. + 1 mm oversize. Super Alloy
AUDI 2.0T FSI - DOHC 16 VALVE - 2006-2008						
F1280P	E	28mm	5.96mm	101.9mm	4.9mm	20° Flo. Triple Groove. Super Alloy
F1281P	E	29mm	5.96mm	101.9mm	4.9mm	20° Flo. 1mm oversize. Triple Groove. Super Alloy
FORD ESCORT 2.0L - DOHC ZETEC 16 VALVE (ZX2) - 1999-2001						
FORD FOCUS 2.0L - DOHC ZETEC 16 VALVE (ZX3) - 2000-2001						
F1817P	E	27.96mm	6.012mm	96.56mm	5.25mm	25° Flo. Stock size. (Super Alloy)
F1959P	E	28.96mm	5.500mm	97.16mm	5.25mm	25° Flo. 1 mm oversize. (Super Alloy)
F1818P	E	28.96mm	6.012mm	96.56mm	5.25mm	25° Flo. 1 mm oversize. (Super Alloy)
HONDA ACCORD 2.2L - SOHC 16 VALVE (F22B2-F22B6) - 1994-1995						
F1900P	E	29 mm	5.46 mm	123.55 mm	4.00 mm	22° Flo. Stock size. Super Alloy
F1901P	E	30 mm	5.46 mm	123.55 mm	4.00 mm	22° Flo. 1 mm oversize. Super Alloy
HONDA ACCORD 2.2L - SOHC V-TEC 16 VALVE (F22B1) - 1994-1997						
F1801P	E	29 mm	5.46 mm	114.25 mm	3.5 mm	25° Flo. Stock size. Super Alloy
F1803P	E	30 mm	5.46 mm	114.25 mm	3.5 mm	25° Flo. 1 mm oversize. Super Alloy

SPORT COMPACT SUPER ALLOY VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
HONDA CIVIC 1.6L - SOHC 16 VALVE (D16Z6-Y5-Y7-Y8) - 1992-2000						
F1821P	E	26 mm	5.46 mm	115.95 mm	1.9 mm	22° Flo. Stock size. Super Alloy
F1495P	E	27 mm	5.46 mm	115.95 mm	1.9 mm	22° Flo. 1 mm oversize. Super Alloy
HONDA CIVIC CRX SI 1.6L - SOHC 16 VALVE (D16A6) - 1988-1991						
F1857P	E	25 mm	5.5 mm	118.75 mm	4.35 mm	25° Flo. Stock size. Super Alloy
F1858P	E	26 mm	5.5 mm	118.75 mm	4.35 mm	25° Flo. 1 mm oversize. Super Alloy
HONDA DEL SOL 1.6L - DOHC V-TEC 16 VALVE (B16A1) - 1994-1997						
HONDA CIVIC SI 1.6L - DOHC V-TEC 16 VALVE (B16A3) - 1999-2000						
F1449P	E	28 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo Stock size. Super Alloy
F1447P	E	28.5 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - .5 mm oversize. Super Alloy
F1445P	E	29 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - 1 mm oversize. Super Alloy
HONDA CRV 2.0L - DOHC 16 VALVE (B20A-B20Z) - 1997-2000						
F1815P	E	28 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - Stock soze. Super Alloy
F1488P	E	28.5 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - .5 mm oversize. Super Alloy
F1489P	E	29 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - 1 mm oversize. Super Alloy
HONDA PRELUDE 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000						
F1823P	E	30 mm	5.48 mm	107.1 mm	1.9 mm	22° Flo. Stock size. Super Alloy
F1958P	E	30.5 mm	5.48 mm	107.1 mm	1.9 mm	22° Flo - .5 mm oversize. Super Alloy
F1458P	E	31 mm	5.48 mm	107.1mm	1.9 mm	22° Flo. 1 mm oversize. Super Alloy
MAZDA 626 2.0L - SOHC 8 VALVE (TURBO FE & NON TURBO FE) - 1983-1987						
F1833P	E	36 mm	8 mm	111.68 mm	5 mm	20° Flo. Stock size. Super Alloy
F1834P	E	37 mm	8 mm	111.68 mm	5 mm	20° Flo. 1 mm oversize. Super Alloy
MINI COOPER S - 16 VALVE - 2002-2006						
F1569P	E	24.50mm	5.91mm	118.3mm	7mm	19° Flo. Single Radial Groove. +1.25mm. Super Alloy
NISSAN 280 ZX 2.8L - SOHC 12 VALVE (L28E-TURBO L28ET) - 1981-1983						
F1841P	E	35 mm	8 mm	115.25 mm	3 mm	20° Flo. Stock size. Super Alloy
F1842P	E	36 mm	8 mm	115.25 mm	3 mm	20° Flo. 1 mm oversize. Super Alloy
NISSAN 300 ZX 3.0L - DOHC 24 VALVE (VG30D-TURBO VG30DTT) - 1990-1996						
F1849P	E	29.5 mm	6 mm	103.65 mm	3.5 mm	25° Flo. Stock size. Super Alloy
F1850P	E	30.5 mm	6 mm	103.65 mm	3.5 mm	25° Flo. 1 mm oversize. Super Alloy
NISSAN 300 ZX 3.0L - SOHC 12 VALVE (VG30D-TURBO VG30T) - 1984-1989						
F1845P	E	35.1 mm	8 mm	124.5 mm	4.5 mm	20° Flo. Stock size. Super Alloy
F1846P	E	36.1 mm	8 mm	124.5 mm	4.5 mm	20° Flo. 1 mm oversize. Super Alloy
NISSAN 350 Z 3.5 L - V-6 - DOHC 24 VALVE (VQ35) - 2003-2008						
F1565P	E	32.35mm	5.96mm	94mm	3.5mm	22° Flo. Radial Grov. + 1mm o/size. Super Alloy Turbo appl.

SPORT COMPACT SUPER ALLOY VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
NISSAN ALTIMA 2.4L - DOHC 16 VALVE (KA24DE) - 1995-1999						
NISSAN 240 SX 2.4L - DOHC 16 VALVE (KA24DE) - 1991-1998						
F1837P	E	31.3 mm	7 mm	98.85 mm	4.5 mm	25° Flo. Stock size. Super Alloy
F1838P	E	32.3 mm	7 mm	98.85 mm	4.5 mm	25° Flo. 1 mm oversize. Super Alloy
NISSAN PATROL 4.8L 6 CYL IN LINE - 24 VALVE - (TB48DE)						
F2153P	E	33.5 mm	6.96 mm	98.3 mm	3.5 mm	20° Flo. Stock size. Super Alloy. Turbo Application
F2154P	E	34.5 mm	6.96 mm	98.3 mm	3.5 mm	20° Flo. +1 mm oversize. Super Alloy. Turbo Application
F2166P	E	35 mm	6.96 mm	98.3 mm	3.5 mm	20° Flo. +1.5 mm oversize. Super Alloy. Turbo Application
Tech Note: Both, Exhaust Valves feature a 1 mm reduction stem in the groove area to allow the use of the same springs, retainers and locks.						
NISSAN SENTRA SE-R 2.0L - DOHC 16 VALVE (SR20DE) - 1991-1998						
F1869P	E	30.15 mm	5.94 mm	102.4 mm	3.5 mm	22° Flo. Stock size. Super Alloy
F1870P	E	31.15 mm	5.94 mm	102.4 mm	3.5 mm	22° Flo. 1 mm oversize. Super Alloy
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB25DET) - 1993-1997						
F2149P	E	29.6 mm	5.96 mm	88.95 mm	3.2 mm	21° Flo. Stock size. Super Alloy. Turbo Application
F2150P	E	30.6 mm	5.96 mm	88.95 mm	3.2 mm	21° Flo. + 1 mm oversize. Super Alloy. Turbo Application
SATURN ILO 1.9L - 1991-1998 (For Solid Bucket)						
F1917P	E	30 mm	5.455 mm	113.35 mm	19 mm	22° Flo. +2.5 mm oversize
SUBARU WRX - STI - 2004-2008						
F1514P	E	32 mm	5.96 mm	104.75 mm	3.5 mm	25° Flo. Stock size. Super Alloy
F1519P	E	33 mm	5.96 mm	104.75 mm	3.5 mm	25° Flo. + 1 mm oversize. Super Alloy
TOYOTA MR2 2.0L - DOHC 16 VALVE (TURBO 3SGTE) - 1990-1995						
F1865P	E	29 mm	6 mm	99.5 mm	3.5 mm	25° Flo. Stock size. Super Alloy
F1866P	E	30 mm	6 mm	99.5 mm	3.5 mm	25° Flo. 1 mm oversize. Super Alloy
TOYOTA SUPRA 3.0L - DOHC 24 VALVE (7MGE-TURBO 7MGTE) - 1986-1992						
F1861P	E	27.5 mm	6 mm	98.05 mm	4 mm	25° Flo. Stock size. Super Alloy
F1862P	E	28.5 mm	6 mm	98.05 mm	4 mm	25° Flo. 1 mm oversize. Super Alloy
TOYOTA SUPRA 3.0L I/L 6 CYL - DOHC 24 VALVE (2JZGE-2JZGTE) - 1994-1998						
F1499P	E	29 mm	5.98 mm	99.1 mm	3.5 mm	22° Flo. Stock size. Super Alloy
F1497P	E	30 mm	5.98 mm	99.1 mm	3.5 mm	22° Flo. 1 mm oversize. Super Alloy
VW VR6 2.8L - DOHC 12 VALVE - 1992-2002						
F1921P	E	35 mm	6.96 mm	106.9 mm	2.25 mm	22° S. Flo. +1 mm o/size. Super Alloy. Turbo Appl.
F2135P	E	36 mm	6.96 mm	106.9 mm	2.25 mm	22° S. Flo. +2 mm o/size. Super Alloy. Turbo Appl.

SPORT COMPACT SUPER ALLOY VALVES - BLANKS

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BLANKS (4-5 mm) ("REQUIRE LASH CAPS or HARD TIPS")						
F0069	E	34mm	4.97mm	140mm	BLANK	19° Flo. Super Alloy
BLANKS (5-6 mm) ("REQUIRE LASH CAPS or HARD TIPS")						
F1943P	E	32mm	5.48mm	140mm	BLANK	22° Flo. Super Alloy Turbo Applications
F1942P	E	34mm	5.95mm	140mm	BLANK	21° Flo. Super Alloy Turbo Applications
BLANKS (6-7 mm) ("REQUIRE LASH CAPS or HARD TIPS")						
F1941P	E	32.5mm	6.55mm	140mm	BLANK	22° Flo. Super Alloy Turbo Applications
BLANKS (7-8 mm) ("REQUIRE LASH CAPS or HARD TIPS")						
F0345P	E	33mm	7mm	135mm	BLANK	22° Flo. Super Alloy. No Groove. No Tip
F0346P	E	39mm	7mm	135mm	BLANK	22° Flo. Super Alloy. No Groove. No Tip



Gary White of Titan Motorsports has proven himself once again in the ADRL Series to compete side by side with the big V8s running a 2JZGTE Toyota engine with Ferrea Racing Components.

Drag Cars of sponsors Red Bull of Gary Gardella and Scion TC of Chris Rado, two drivers that have compete 10+ years in the sport compact market use nothing but Ferrea Racing Components.



SPORT COMPACT COMPETITION PLUS HOLLOW STEM VALVES

Ferrea made available the **Lightweight Hollow Stem Valve** for **Sport Compact applications**. Our manufacturing process emphasizes the **interior finish of the hollow stem** using **gun drill and micro polish techniques**. The valves also feature **seat hardness** for longer life in this critical area, **avionics chrome plated stem, radial groove, friction welded tips** and **Super Flo stem** to improve the flow design. This lightweight valve achieves higher rpm's to improve the combustion cycle and obtain more HP.

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
ACURA INTEGRA GSR 1.7L - DOHC V-TECH 16 VALVE (B17A1) - 1992-1993						
ACURA INTEGRA GSR 1.8L - DOHC V-TECH 16 VALVE (B18C1-C3) - 1994-2000						
F1070P	E	28 mm	5.45 mm	102.5 mm	2.50 mm	25° Flo. Stock size. Special Alloy
F1074P	E	28.5 mm	5.45 mm	102.5 mm	2.50 mm	25° Flo. +.5 mm oversize. Special Alloy
F1076P	E	29 mm	5.45 mm	102.5 mm	2.50 mm	25° Flo. + 1 mm oversize. Special Alloy
F1071P	I	33 mm	5.47 mm	102.35 mm	2.50 mm	25° Super Flo. Stock size. Special Alloy
F1075P	I	33.5 mm	5.47 mm	102.35 mm	2.50 mm	25° Super Flo. +.5 mm oversize. Special Alloy
F1077P	I	34 mm	5.47 mm	102.35 mm	2.50 mm	25° Super Flo. + 1 mm oversize. Special Alloy
AUDI 1.8T / VW (20 VALVE) - 1996-2002						
F1084P	E	30.9 mm	5.96 mm	103.92 mm	5 mm	26° Flo. +1mm o/s. Trip.groove. 2 Valves required
F1085P	I	27.9 mm	5.97 mm	105.1 mm	5 mm	24° Sup.Flo. +1mm o/s. Trip.groove. 3 Val. required
BMW 3 SERIES (M50-M51-M52)						
F1086P	E	31.5 mm	5.96 mm	106 mm	3.7 mm	25° Flo. +1mm o/size. Triple groove
F1087P	I	33.95 mm	5.97 mm	106.1 mm	3.7 mm	12° Super Flo. +1mm o/size. Triple groove
HONDA PRELUDE 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000						
F1082P	E	30 mm	5.48 mm	107.1 mm	1.9 mm	22° Flo. Stock size. Super Alloy
F1083P	I	35 mm	5.48 mm	106.85 mm	1.9 mm	20° Super Flo. Stock size.
MINI COOPER 1.8L - DOHC 16 VALVE (R52) - 1999-2006						
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999						
F1081P	E	30.5 mm	6.55 mm	109.7 mm	3.8 mm	22° Flo. Stock size. Super Alloy
F1072P	E	31.5 mm	6.55 mm	109.7 mm	3.8 mm	22° Flo. +1mm o/size. Super Alloy
F1080P	I	34 mm	6.57 mm	109.7 mm	3.8 mm	20° Super Flo. Stock size.
F1073P	I	35 mm	6.57 mm	109.7 mm	3.8 mm	20° Super Flo. +1mm o/size.
TOYOTA SUPRA 3.0L I/L 6 CYL - DOHC 24 VALVE (2JZGE-2JZGTE) - 1994-1998						
F1079P	E	30 mm	5.98 mm	99.1 mm	3.5 mm	22° Flo. + 1 mm oversize. Super Alloy
F1078P	I	34.6 mm	5.98 mm	98.55 mm	3.5 mm	20° Super Flo. + 1 mm oversize

SPORT COMPACT COMPETITION PLUS VALVES

Our NEW **Import-Tuner Valve Program** features specially designed valves for use in racing engines that are subjected to extreme exhaust temperatures with Turbo, Nitrous, or Supercharger. We use a Special Alloy designed specifically for this application.



Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE (B17A1) - 1992-1993						
ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE (B18C1-C3) - 1994-2000						
F1449P	E	28 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo Stock size. Super Alloy
F1447P	E	28.5 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - .5 mm oversize. Super Alloy
F1445P	E	29 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - 1 mm oversize. Super Alloy
F1448P	I	33 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo. Stock size
F1446P	I	33.5mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo - .5 mm oversize
F1444P	I	34 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo - 1 mm oversize
ACURA INTEGRA LS-GS 1.8L - DOHC 16 VALVE (B18A1-B1) - 1990-2000						
F1815P	E	28 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - Stock size. Super Alloy
F1488P	E	28.5 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - .5mm oversize. Super Alloy
F1489P	E	29 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - 1mm oversize. Super Alloy
F1816P	I	31 mm	6.57 mm	105.5 mm	4.1 mm	20° Super Flo Dish Head - Stock size
F1490P	I	31.5 mm	6.57 mm	105.5 mm	4.1 mm	20° Super Flo Dish Head - .5mm oversize
F1491P	I	32 mm	6.57 mm	105.5 mm	4.1 mm	20° Super Flo Dish Head - 1mm oversize
ACURA NSX - 1991-2002						
F1559P	E	30.05 mm	5.455 mm	111.6 mm	3.17 mm	30° Flo. Stock size
F1561P	E	31.05 mm	5.455 mm	111.6 mm	3.17 mm	30° Flo. +1mm oversize
F1558P	I	35.97 mm	5.48 mm	112.37 mm	3.25 mm	20° Super Flo. Stock size
F1560P	I	37 mm	5.48 mm	112.37 mm	3.25 mm	20° Super Flo. +1mm oversize
ACURA RSX 2.0L - DOHC V-TEC 16 VALVE (K20) - 2001-2006						
F1546P	E	30 mm	5.45 mm	108.7 mm	2 mm	30° Flo. Dish Head. Stock size. Super Alloy
F1547P	E	31 mm	5.45 mm	108.7 mm	2 mm	30° Flo. Dish Head. +1 mm oversize. Super Alloy
F1548P	I	35 mm	5.47 mm	108.8 mm	2 mm	20° Super Flo. Stock size
F1549P	I	36 mm	5.47 mm	108.8 mm	2 mm	20° Super Flo. +1 mm oversize



Titan Motorsports Scion makes 1800hp+ with full valvetrain of Ferrea Racing Components.

SPORT COMPACT COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
AUDI 1.8T - DOHC 20 VALVE - 1996-2005						
AUDI 2.7T - DOHC 30 VALVE (APB) 1998-2004						
AUDI RS6 4.2L - DOHC V8 40 VALVE (BCY) - 2002-2004						
F1554P	E	29.9 mm	5.96 mm	103.92 mm	5 mm	26° Flo. Stk size. Trip. groove. 2 Valves required
F1555P	E	30.9 mm	5.96 mm	103.92 mm	5 mm	26° Flo. +1mm o/s. Trip. groove. 2 Valves required
F1556P	I	26.9 mm	5.97 mm	105.1 mm	5 mm	24° Sup. Flo. Stk size. Trip. groove. 3 Val. required
F1557P	I	27.9 mm	5.97 mm	105.1 mm	5 mm	24° Sup. Flo. +1mm o/. Trip. groove. 3 Val. required
AUDI 2.0T FSI - DOHC 16 VALVE - 2006-2008						
F1280P	E	28mm	5.96mm	101.9mm	4.9mm	20° Flo. Triple Groove. Super Alloy
F1281P	E	29mm	5.96mm	101.9mm	4.9mm	20° Flo. 1mm oversize. Triple Groove. Super Alloy
F1282P	I	33.8mm	5.98mm	104.1mm	4.9mm	20° Super Flo. Triple Groove
F1283P	I	34.8mm	5.98mm	104.1mm	4.9mm	20° Super Flo. 1mm oversize. Triple Groove
BMW 3 SERIES (M50-M51-M52)						
F1552P	E	30.5 mm	5.96 mm	106 mm	3.7 mm	25° Flo. Stock size. Triple groove
F1553P	E	31.5 mm	5.96 mm	106 mm	3.7 mm	25° Flo. 1+mm o/size. Triple groove
F1550P	I	32.95 mm	5.97 mm	106.1 mm	3.7 mm	12° Super Flo. Stock size. Triple groove
F1551P	I	33.95 mm	5.97 mm	106.1 mm	3.7 mm	12° Super Flo. 1+mm o/size. Triple groove
CHRYSLER/DODGE 3.5L - SOHC V6 24 VALVE - 1998-2004						
F1574P	E	29 mm	6.92 mm	125.94 mm	5.9 mm	22° Flo. Stock size. Super Alloy. Single Groove
F1575P	E	30 mm	6.92 mm	125.94 mm	5.9 mm	22° Flo. 1 mm oversize. Super Alloy. Single Groove
F1576P	I	36.5 mm	6.94 mm	114.7 mm	3.5 mm	19° Super Flo. Stock size. Single Groove
F1577P	I	37.5 mm	6.94 mm	114.7 mm	3.5 mm	19° Super Flo. 1mm oversize. Single Groove
Tech Note: These Ferrea Racing Valves come with single radial grooves. For racing applications Ferrea Racing does not recommend the use of triple radial grooved valves.						
DODGE NEON 2.0 - DOHC 16 VALVE - 1994-1999						
F1544P	E	30.5 mm	5.9 mm	109.80 mm	11 mm	24° Tulip. Stock Size
F1545P	I	34.75 mm	5.93 mm	111.75 mm	11 mm	14° Super Flo. Stock size
DODGE NEON 2.0 - SOHC 16 VALVE - 1994-1999						
F1541P	E	28.75mm	5.918mm	117.20mm	5.10mm	28° Tulip. Stock size
F1543P	E	29.75mm	5.918mm	117.20mm	5.10mm	28° Tulip. 1 mm oversize
F1540P	I	33.25mm	5.944mm	114.95mm	6.65mm	17° Super Flo. Stock size
F1542P	I	34.25mm	5.944mm	114.95mm	6.65mm	17° Super Flo. 1 mm oversize
DODGE NEON 2.4 - SRT4 - DOHC 16 VALVE (A853) - 2003-2005						
F2141P	E	28.36 mm	5.95 mm	109.80 mm	9.1 mm	21° Flo. Stock size. Super Alloy. Turbo Application. Single Groove
F2142P	E	29.36 mm	5.95 mm	109.80 mm	9.1 mm	21° Flo. 1mm Over Size Super Alloy. Turbo Application. Single Groove
F2143P	I	34.81 mm	5.96 mm	111.7 mm	11.05 mm	21° Super Flo. Stock size. Single Groove
F2144P	I	35.81 mm	5.96 mm	111.7 mm	11.05 mm	21° Super Flo. 1mm oversize. Stock Size. Single Groove
Tech Note: These Ferrea Racing Valves come with single radial grooves. For racing applications Ferrea Racing does not recommend the use of triple radial grooved valves. These valves are designed to be used only with Ferrea Valve Train Kit components.						
FORD COSWORTH 4 CYL.						
F1412P	E	25.35mm	7.09mm	101mm	4.7mm	R. 12mm Flo. Flat Head. Stk stem: 7.1mm
F1424P	E	29.46mm	7.09mm	117.32mm	21.02mm	R. 12mm Flo. Flat Head. Stk stem: 7.078mm
F1411P	I	31mm	7.1mm	101.2mm	4.84mm	19° Super Flo. Flat Head. Stk Stem: 7.1mm
F1423P	I	35mm	7.1mm	117.32mm	20.08mm	19° Super Flo. Flat Head. Stk Stem: 7.09mm
NOTE: Ferrea offer these valves as "CUSTOM ORDER only" with the stem 7.09mm (EXH) and 7.1mm (INT)						
FORD COSWORTH DFX-DFS (INDY CARS)						
F1407P	E	29.22mm	7.09mm	117.5mm	18.5mm	R. 12mm Flo. Flat Head. Stk stem: 7.075mm
F1415P	E	29.72mm	7.09mm	117.5mm	18.5mm	R. 12mm Flo. Flat Head. Stk stem: 7.075mm
F1428P	E	31.75mm	7.09mm	117.5mm	18.5mm	R. 12mm Flo. Flat Head. Stk stem: 7.07mm
F1406P	I	34.6mm	7.1mm	117.1mm	18.5mm	19° Super Flo. Flat Head. Stk Stem: 7.085mm
F1414P	I	35.1mm	7.1mm	117.1mm	18.5mm	19° Super Flo. Flat Head. Stk Stem: 7.085mm
F1427P	I	36.19mm	7.1mm	117.1mm	18.5mm	19° Super Flo. Flat Head. Stk Stem: 7.09mm
NOTE: Ferrea offer these valves as "CUSTOM ORDER only" with the stem 7.09mm (EXH) and 7.1mm (INT)						

SPORT COMPACT COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
FORD ESCORT 2.0L - DOHC ZETEC 16 VALVE (ZX2) - 1999-2001						
FORD FOCUS 2.0L - DOHC ZETEC 16 VALVE (ZX3) - 2000-2001						
F1817P	E	27.96 mm	6.012 mm	97.16 mm	5.25 mm	25° Flo. Stock size. Super Alloy
F1818P	E	28.96 mm	6.012 mm	97.16 mm	5.25 mm	25° Flo. 1 mm oversize. Super Alloy
F1959P	E	28.96 mm	5.5 mm	97.16 mm	5.25 mm	25° Flo. 1 mm oversize. Super Alloy
F1819P	I	32 mm	6.03 mm	97.55 mm	5.25 mm	25° Super Flo. Stock size
F1820P	I	33 mm	6.03 mm	97.55 mm	5.25 mm	25° Super Flo. 1 mm oversize
F1960P	I	33 mm	5.5 mm	97.55 mm	5.25 mm	25° Super Flo. 1 mm oversize
FORD 2.3L - DOHC DURATEC 16 VALVE (23E) - 2003-2008						
F1910P	E	29.96 mm	5.47 mm	104.78 mm	4 mm	20° Flo. Stock size. Super Alloy
F1911P	E	30.96 mm	5.47 mm	104.78 mm	4 mm	20° Flo. 1 mm oversize. Super Alloy
F1908P	I	35.08 mm	5.48 mm	103.6 mm	4 mm	20° Super Flo. Stock size
F1909P	I	36.08 mm	5.48 mm	103.6 mm	4 mm	20° Super Flo. 1 mm oversize
FORD FOCUS SVT - 2002-2003						
F1923P	E	27.97 mm	6.02 mm	102.30 mm	5.20 mm	25° Flo. Triple Groove
F1925P	E	28.97 mm	6.02 mm	102.30 mm	5.20 mm	25° Flo. + 1 mm oversize. Triple Groove
F1922P	I	33.53 mm	6.03 mm	102.80 mm	3.20 mm	25° Super Flo. Triple Groove
F1924P	I	34.53 mm	6.03 mm	102.80 mm	3.20 mm	25° Super Flo. + 1 mm oversize. Triple Groove
GM 2.2 ECO TEC						
F1961P	E	30.1 mm	5.96 mm	101.5 mm	5.5 mm	22° Flo. Stock size
F1962P	E	31.1 mm	5.96 mm	101.5 mm	5.5 mm	22° Flo. 1 mm oversize
F1963P	I	35.1 mm	5.97 mm	102.5 mm	5.5 mm	20° Super Flo. Stock size
GM 5 CYLINDER - L5						
F1948P	E	30.15 mm	5.96 mm	108 mm	5.5 mm	22° Flo. Stock size
F1949P	E	31.15 mm	5.96 mm	108 mm	5.5 mm	22° Flo. 1 mm oversize
F1950P	I	37 mm	5.97 mm	105.5 mm	5.5 mm	20° Super Flo. Stock size
F1951P	I	38 mm	5.97 mm	105.5 mm	5.5 mm	20° Super Flo. 1 mm oversize
HONDA ACCORD 2.2L - SOHC 16 VALVE (F22B2-F22B6) - 1994-1995						
F1900P	E	29 mm	5.46 mm	123.55 mm	4.00 mm	22° Flo. Stock size. Super Alloy
F1901P	E	30 mm	5.46 mm	123.55 mm	4.00 mm	22° Flo. 1 mm oversize. Super Alloy
F1902P	I	32 mm	5.48 mm	112.10 mm	2.50 mm	20° Super Flo. Stock size
F1903P	I	33 mm	5.48 mm	112.10 mm	2.50 mm	20° Super Flo. 1 mm oversize
HONDA ACCORD 2.2L - SOHC V-TEC 16 VALVE (F22B1) - 1994-1997						
F1801P	E	29 mm	5.46 mm	114.25 mm	3.5 mm	25° Flo. Stock size. Super Alloy
F1803P	E	30 mm	5.46 mm	114.25 mm	3.5 mm	25° Flo. 1 mm oversize. Super Alloy
F1800P	I	34 mm	5.48 mm	116 mm	3.5 mm	25° Super Flo. Stock size
F1802P	I	35 mm	5.48 mm	116 mm	3.5 mm	25° Super Flo. 1 mm oversize
HONDA CIVIC CRX SI 1.6L - SOHC 16 VALVE (D16A6) - 1988-1991						
F1857P	E	25 mm	5.5 mm	118.75 mm	4.35 mm	25° Flo. Stock size. Super Alloy
F1858P	E	26 mm	5.5 mm	118.75 mm	4.35 mm	25° Flo. 1 mm oversize. Super Alloy
F1855P	I	29 mm	5.5 mm	115 mm	4.1 mm	25° Super Flo. Stock size
F1856P	I	30 mm	5.5 mm	115 mm	4.1 mm	25° Super Flo. 1 mm oversize
HONDA CIVIC 1.6L - SOHC 16 VALVE (D16Z6-Y5-Y7-Y8) - 1992-2000						
F1821P	E	26 mm	5.46 mm	115.95 mm	1.9 mm	22° Flo. Stock size. Super Alloy
F1495P	E	27 mm	5.46 mm	115.95 mm	1.9 mm	22° Flo. 1 mm oversize. Super Alloy
F1822P	I	30 mm	5.48 mm	118.6 mm	1.9 mm	20° Super Flo. Stock size
F1494P	I	31 mm	5.48 mm	118.6 mm	1.9 mm	20° Super Flo. 1 mm oversize
HONDA DEL SOL 1.6L - DOHC V-TEC 16 VALVE (B16A1) - 1994-1997						
HONDA CIVIC SI 1.6L - DOHC V-TEC 16 VALVE (B16A3) - 1999-2000						
F1449P	E	28 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo Stock size. Super Alloy
F1447P	E	28.5 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - .5 mm oversize. Super Alloy
F1445P	E	29 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - 1 mm oversize. Super Alloy
F1448P	I	33 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo. Stock size
F1446P	I	33.5 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo - .5 mm oversize
F1444P	I	34 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo - 1 mm oversize
HONDA CRV 2.0L - DOHC 16 VALVE (B20A-B20Z) - 1997-2000						
F1815P	E	28 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - Stock soze. Super Alloy
F1488P	E	28.5 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - .5 mm oversize. Super Alloy
F1489P	E	29 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - 1 mm oversize. Super Alloy-
HONDA CRV 2.0L - DOHC 16 VALVE (B20A-B20Z) - 1997-2000						
F1816P	I	31 mm	6.57 mm	105.5 mm	4.1 mm	20° Super Flo Dish Head - Stock soze
F1490P	I	31.5 mm	6.57 mm	105.5 mm	4.1 mm	20° Super Flo Dish Head - .5 mm oversize
F1491P	I	32 mm	6.57 mm	105.5 mm	4.1 mm	20° Super Flo Dish Head - 1 mm oversize

SPORT COMPACT COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
HONDA PRELUDE 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000						
F1823P	E	30 mm	5.48 mm	107.1 mm	1.9 mm	22° Flo. Stock size. Super Alloy
F1958P	E	30.5 mm	5.48 mm	107.1 mm	1.9 mm	22° Flo - .5 mm oversize. Super Alloy
F1458P	E	31 mm	5.48 mm	107.1 mm	1.9 mm	22° Flo. 1 mm oversize. Super Alloy
F1824P	I	35 mm	5.48 mm	106.85 mm	1.9 mm	20° Super Flo. Stock size
F1956P	I	35.5 mm	5.48 mm	106.85 mm	1.9 mm	20° Super Flo - .5 mm oversize
F1456P	I	36 mm	5.48 mm	106.85 mm	1.9 mm	20° Super Flo. 1 mm oversize
HONDA S 2000 (F20C) - 2000-2003 / HONDA S 2000 (F22C) - 2004-2008						
F1952P	E	31 mm	5.46 mm	109 mm	2.5 mm	22° Flo. Stock size
F1953P	E	32 mm	5.46 mm	109 mm	2.5 mm	22° Flo. +1mm o/size
F1954P	I	36 mm	5.48 mm	109.8 mm	2.5 mm	20° Super Flo. Stock size
F1955P	I	37 mm	5.48 mm	109.8 mm	2.5 mm	20° Super Flo. +1mm o/size
HYUNDAI TIBURON 4 CYL - DOHC 16 VALVE - 1996-2001						
F2125P	E	27.85mm	5.95mm	105.02mm	4.2mm	22° Flo. Single Radial Gro. Stock size. Special Alloy
F2126P	E	28.85mm	5.95mm	105.02mm	4.2mm	22° Flo. Single Radial Gro. +1 mm. Special Alloy
F2127P	I	32.05mm	5.97mm	102.4mm	5.5mm	20° Flo. Single Radial Gro. Stock size. Special Alloy
F2128P	I	33.05mm	5.97mm	102.4mm	5.5mm	20° Flo. Single Radial Gro. +1 mm. Special Alloy
HYUNDAI V-6 TIBURON - 2001-2008						
F1970P	E	27.5 mm	5.96 mm	97.3 mm	4 mm	22° Flo. Stock size
F1971P	E	28.5 mm	5.96 mm	97.3 mm	4 mm	22° Flo. + 1 mm oversize
F1972P	I	32 mm	5.98 mm	96.3 mm	4 mm	20° Super Flo. Stock size
F1973P	I	33 mm	5.98 mm	96.3 mm	4 mm	20° Super Flo. + 1 mm oversize
MAZDA 626 2.0L - SOHC 8 VALVE (TURBO FE & NON TURBO FE) - 1983-1987						
F1833P	E	36 mm	8 mm	111.68 mm	5 mm	20° Flo. Stock size. Super Alloy
F1834P	E	37 mm	8 mm	111.68 mm	5 mm	20° Flo. 1 mm oversize. Super Alloy
F1831P	I	44 mm	8 mm	111.9 mm	5 mm	20° Super Flo. Stock size
F1832P	I	45 mm	8 mm	111.9 mm	5 mm	20° Super Flo. 1 mm oversize
MAZDA 626 V6 2.5 L - DOHC KL - 1993-1998						
F1906P	E	27.63 mm	5.97 mm	95.25 mm	2.5 mm	18° Flo. Stock size
F1907P	E	28.63 mm	5.97 mm	95.25 mm	2.5 mm	18° Flo. +1mm o/size
F1904P	I	32.05 mm	5.98 mm	94.3 mm	2.5 mm	15° Super Flo. Stock size
F1905P	I	33.05 mm	5.98 mm	94.3 mm	2.5 mm	15° Super Flo. +1mm o/size
MAZDA MIATA 1.6L - DOHC 16 VALVE (B6) - 1990-1993 (Hydraulic Buckets)						
MAZDA MIATA 1.8L - DOHC 16 VALVE (BP056) - 1994-2002 (Hydraulic & Solid Buckets)						
Parts for these applications are no longer offered as stock items due to changes in valvetrain components over their production span. These items must be ordered as custom made parts.						
MINI COOPER S - 16 VALVE - 2002-2006						
F1568P	E	23.25mm	5.91mm	118.3mm	7mm	19° Flo. Stock size. Single Radial Gro. Special Alloy
F1569P	E	24.50mm	5.91mm	118.3mm	7mm	19° Flo. Single Radial Gro. +1.25mm. Super Alloy
F1573P	E	24.50mm	5.91mm	118.3mm	7mm	19° Flo. Single Radial Gro. +1.25mm. Special Alloy
F1566P	I	30.25mm	5.95mm	109.5mm	7mm	21° Super Flo. Stock size. Single Radial Groove
F1567P	I	31.5mm	5.95mm	109.5mm	7mm	21° Super Flo. Single Radial Groove. +1.25mm
NOTE: Must use Ferrea Titanium Retainer # E11059 and Ferrea Lock # K10070						



Tony Morris from Orion Sports Marketing Mitsubishi Evolution VIII has an amazing record of road racing and display of big horsepower with Ferrea valvetrain Components.

SPORT COMPACT COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
MITSUBISHI 3000 GT 3.0L - DOHC 24 VALVES (6G72-TURBO 6G72T) - 1990-2001						
F1853P	E	30.5 mm	6.55 mm	105.5 mm	3.8 mm	25° Flo. Stock size. Super Alloy
F1854P	E	31.5 mm	6.55 mm	105.5 mm	3.8 mm	25° Flo. 1 mm oversize. Super Alloy
F1851P	I	35 mm	6.57 mm	106.35 mm	3.8 mm	25° Super Flo. Stock Size
F1852P	I	36 mm	6.57 mm	106.35 mm	3.8 mm	25° Super Flo. 1 mm oversize
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999						
F1825P	E	30.5 mm	6.55 mm	109.7 mm	3.8 mm	22° Flo. Stock size. Super Alloy
F1454P	E	31.5 mm	6.55 mm	109.7 mm	3.8 mm	22° Flo. 1 mm oversize. Super Alloy
F1826P	I	34 mm	6.57 mm	109.7 mm	3.8 mm	20° Super Flo. Stock size
F1452P	I	35 mm	6.57 mm	109.7 mm	3.8 mm	20° Super Flo. 1 mm oversize
MITSUBISHI LANCER EVOLUTION 2L - DOHC 16 VALVE (TURBO 4G63T) - 2003-2007						
F1825P	E	30.5 mm	6.55 mm	109.7 mm	3.8 mm	22° Flo. Stock size
F1454P	E	31.5 mm	6.55 mm	109.7 mm	3.8 mm	22° Flo. + 1 mm oversize
F1826P	I	34 mm	6.57 mm	109.7 mm	3.8 mm	20° Super Flo. Stock size
F1452P	I	35 mm	6.57 mm	109.7 mm	3.8 mm	20° Super Flo. + 1 mm oversize
NISSAN 280 ZX 2.8L - SOHC 12 VALVE (L28E-TURBO L28ET) - 1981-1983						
F1841P	E	35 mm	8 mm	115.25 mm	3 mm	20° Flo. Stock size. Super Alloy
F1842P	E	36 mm	8 mm	115.25 mm	3 mm	20° Flo. 1 mm oversize. Super Alloy
F1839P	I	44 mm	8 mm	114.3 mm	3 mm	20° Super Flo. Stock size
F1840P	I	45 mm	8 mm	114.3 mm	3 mm	20° Super Flo. 1 mm oversize
NISSAN 300 ZX 3.0L - SOHC 12 VALVE (VG30D-TURBO VG30T) - 1984-1989						
F1845P	E	35.1 mm	8 mm	124.5 mm	4.5 mm	20° Flo. Stock size. Super Alloy
F1846P	E	36.1 mm	8 mm	124.5 mm	4.5 mm	20° Flo. 1 mm oversize. Super Alloy
F1843P	I	42 mm	7 mm	125.85 mm	4.5 mm	20° Super Flo. Stock size
F1844P	I	43 mm	7 mm	125.85 mm	4.5 mm	20° Super Flo. 1 mm oversize
NISSAN 300 ZX 3.0L - DOHC 24 VALVE (VG30D-TURBO VG30DTT) - 1990-1996						
F1849P	E	29.5 mm	6 mm	103.65 mm	3.5 mm	25° Flo. Stock size. Super Alloy
F1850P	E	30.5 mm	6 mm	103.65 mm	3.5 mm	25° Flo. 1 mm oversize. Super Alloy
F1847P	I	34 mm	6 mm	103.13 mm	3.5 mm	25° Super Flo. Stock size
F1848P	I	35 mm	6 mm	103.13 mm	3.5 mm	25° Super Flo. 1 mm oversize
NISSAN 350 Z 3.5 L - V-6 - DOHC 24 VALVE (VQ35) - 2003-2008						
F1564P	E	31.35mm	5.96mm	94mm	3.5mm	22° Flo. Radial Groove. Stock. Special Alloy
F1565P	E	32.35mm	5.96mm	94mm	3.5mm	22° Flo. Radial Gro. + 1mm o/size. Super Alloy Turbo Appl.
F1562P	I	37.15mm	5.97mm	96.45mm	3.5mm	20° Super Flo. Radial Groove. Stock. Special Alloy
F1563P	I	38.15mm	5.97mm	96.45mm	3.5mm	20° Super Flo. Radial Gro. + 1mm o/size. Special Alloy
NISSAN ALTIMA 2.4L - DOHC 16 VALVE (KA24DE) - 1995-1999						
NISSAN 240 SX 2.4L - DOHC 16 VALVE (KA24DE) - 1991-1998						
F1837P	E	31.3 mm	7 mm	98.85 mm	4.5 mm	25° Flo. Stock size. Super Alloy
F1838P	E	32.3 mm	7 mm	98.85 mm	4.5 mm	25° Flo. 1 mm oversize. Super Alloy
F1835P	I	36.6 mm	7 mm	101.32 mm	4.5 mm	25° Super Flo. Stock size
F1836P	I	37.6 mm	7 mm	101.32 mm	4.5 mm	25° Super Flo. 1 mm oversize
NISSAN PATROL 4.8L 6 CYL IN LINE - 24 VALVE - (TB48DE)						
F2153P	E	33.5 mm	6.96 mm	98.3 mm	3.5 mm	20° Flo. Stock size. Super Alloy. Turbo Appl.
F2154P	E	34.5 mm	6.96 mm	98.3 mm	3.5mm	20° Flo. + 1mm o/size. SUPER Alloy. Turbo Appl.
F2155P	I	38.5 mm	6.96 mm	100.2 mm	3.5 mm	12° Super Flo. Stock Size. Special Alloy.
F2156P	I	39.5 mm	6.96 mm	100.2 mm	3.5 mm	12° Super Flo. + 1mm o/size. Special Alloy.
Tech Note: Both Exhaust and Intake Valves feature a 1 mm reduction stem in the groove area to allow the use of the same springs, retainers and locks.						
NISSAN PATROL 4.8L 6 CYL IN LINE - 24 VALVE - (TB48DE)						
F2153P	E	33.5 mm	6.96 mm	98.3 mm	3.5 mm	20° Flo. Stock size. Super Alloy. Turbo Appl.
F2154P	E	34.5 mm	6.96 mm	98.3 mm	3.5mm	20° Flo. + 1mm o/size. Super Alloy. Turbo Appl.
F2166P	E	35 mm	6.96 mm	98.3 mm	3.5mm	20° Flo. + 1.5 mm o/size. Super Alloy. Turbo Appl.
F2155P	I	38.5 mm	6.96 mm	100.2 mm	3.5 mm	12° Super Flo. Stock Size. Special Alloy.
F2156P	I	39.5 mm	6.96 mm	100.2 mm	3.5 mm	12° Super Flo. + 1mm o/size. Special Alloy
F2167P	I	40 mm	6.96 mm	100.2 mm	3.5mm	12° Super Flo. + 1.5 mm o/size. Super Alloy.
Tech Note: Both Exhaust and Intake Valves feature a 1 mm reduction stem in the groove area to allow the use of the same springs, retainers and locks.						

SPORT COMPACT COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
NISSAN SENTRA SE-R 2.0L - DOHC 16 VALVE (SR20DE) - 1991-1998						
F1869P	E	30.15 mm	5.94 mm	102.4 mm	3.5 mm	22° Flo. Stock size. Super Alloy
F1870P	E	31.15 mm	5.94 mm	102.4 mm	3.5 mm	22° Flo. 1 mm oversize. Super Alloy
F1867P	I	34.15 mm	5.96 mm	101.4 mm	3.5 mm	20° Super Flo. Stock size
F1868P	I	35.15 mm	5.96 mm	101.4 mm	3.5 mm	20° Super Flo. 1 mm oversize
NISSAN SENTRA SE-R 2.0L - DOHC 16 VALVE (SR20DET) 1991-1998						
F2129P	E	30.15 mm	6.95 mm	102.4 mm	3.5 mm	22° Flo.Radial Groove.Stock.Super Alloy.Turbo appl.
F2130P	E	31.15 mm	6.95 mm	102.4 mm	3.5 mm	22° Flo.Radial Groove+1mm o/size.Super Alloy.Turbo appl.
F1867P	I	34.15 mm	5.96 mm	101.4 mm	3.5 mm	20° Super Flo. Radial Gro. Stock Size
F1868P	I	35.15 mm	5.96 mm	101.4 mm	3.5 mm	20° Super Flo. Radial Gro.+ 1 mm oversize
(*) Both Exhaust Valves feature a 1 mm reduction stem in the groove area to allow the use of the same springs, retainers and valve locks used in the Intake Valves.						
NISSAN SENTRA SE-R 2.5L - SPEC V (QR25) - 2002						
F1974P	E	30.65 mm	5.96 mm	98.96 mm	3 mm	25° Flo. Stock Size
F1975P	E	31.65 mm	5.96 mm	98.96 mm	3 mm	25° Flo. + 1 mm oversize.
F1976P	I	35.75 mm	5.97 mm	97.25 mm	3 mm	20° Super Flo. Stock Size
F1977P	I	36.75 mm	5.97 mm	97.25 mm	3 mm	20° Super Flo. + 1 mm oversize.
NOTE: These Ferrea Valves do not reduce the stem diameter to 5.5mm in the groove area. If you are using either the OEM retainer or the Ferrea retainer E11051, you must use Ferrea locks K10066. These locks will allow the valves to work with either retainer.						
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB25DET) - 1993-1997						
F2149P	E	29.6 mm	5.96 mm	88.95 mm	3.2 mm	21° Flo. Stock size. Super Alloy. Turbo Applications
F2150P	E	30.6 mm	5.96 mm	88.95 mm	3.2 mm	21° Flo. +1 mm o/s. Super Alloy. Turbo Applications
F2151P	I	34.12 mm	5.97 mm	86.7 mm	3.5 mm	15° Super Flo. Stock size. Special Alloy
F2152P	I	35.12 mm	5.97 mm	86.7 mm	3.5 mm	15° Super Flo. +1 mm o/s. Special Alloy
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB26) - 1989-2002						
F2131P	E	30.15mm	6.9mm	101.52mm	3.5mm	22° Flo. Radial Gro. Stock. Super Alloy Turbo appl.
F2132P	E	31.15mm	6.9mm	101.52mm	3.5mm	22° Flo. Radial Gro. + 1mm o/size.Super Alloy Turbo appl.
F2133P	I	34.6mm	5.98mm	102.33mm	3.5mm	20° Super Flo. Radial Groove. Stock. Special Alloy
F2134P	I	35.6mm	5.98mm	102.33mm	3.5mm	20° Super Flo. Radial Gro. + 1mm o/size. Special Alloy
(*) Both Exhaust Valves feature a 1 mm reduction stem in the groove area to allow the use of the same springs, retainers and valve locks used in the Intake Valves.						
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (NEO RB25DET) - 1998-2002						
F1935P	E	29.65 mm	5.96 mm	97.95 mm	3.7 mm	22° Flo. Stock size.
F1936P	E	30.65 mm	5.96 mm	97.95 mm	3.7 mm	22° Flo. + 1 mm oversize.
F1933P	I	34.15 mm	5.98 mm	104.2 mm	6.25 mm	20° Super Flo. Stock size.
F1934P	I	35.15 mm	5.98 mm	104.2 mm	6.25 mm	20° Super Flo. + 1 mm oversize.
SATURN ILO 1.9L - 1991-1998 (For Hydraulic Bucket)						
F1915P	E	27.5 mm	6.95 mm	101.55 mm	4 mm	22° Super Flo. Stock size
F1916P	E	28.5 mm	6.95 mm	101.55 mm	4 mm	22° Super Flo. +1 mm oversize
F1912P	I	32.35 mm	6.97 mm	101.7 mm	4 mm	20° Super Flo. Double seat. Stock size
F1914P	I	33.35 mm	6.97 mm	101.7 mm	4 mm	20° Super Flo. Double seat. +1 mm oversize



Powered By Honda-Indy uses Ferrea Racing valve train components to run his USAC Sprint Car that is powered by a Honda S2000.

SPORT COMPACT COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
SATURN ILO 1.9L - 1991-1998 (For Solid Bucket)						
F1917P	E	30 mm	5.455 mm	113.35 mm	19 mm	22° Flo. +2.5 mm oversize
F1918P	I	35 mm	5.48 mm	113.5 mm	19 mm	25° Super Flo. Double seat. +2.65 mm oversize
SCION tC 2.4L - DOHC 16 VALVE (2AZFE) - 2005						
F2145P	E	29.45 mm	5.48 mm	101.22 mm	2.55 mm	22° Flo. Stock size. Super Alloy
F2146P	E	30.45 mm	5.48 mm	101.22 mm	2.55 mm	22° Flo. 1 mm oversize. Super Alloy
F2147P	I	34.00 mm	5.5 mm	101.85 mm	2.55 mm	19° S. Flo. Stock Size. Special Alloy
F2148P	I	35.00 mm	5.5 mm	101.85 mm	2.55 mm	19° S. Flo. 1 mm oversize. Special Alloy
SUBARU 2.5 L - EJ25D - 1996-1998						
F1937P	E	30.5 mm	5.96 mm	122.3 mm	4 mm	21° Flo. Stock size. Super Alloy
F1969P	E	30.5 mm	5.96 mm	122.3 mm	4 mm	21° Flo. Stock size.
F1938P	E	31.5 mm	5.96 mm	122.3 mm	4 mm	21° Flo. + 1 mm oversize. Super Alloy
F1957P	E	31.5 mm	5.96 mm	122.3 mm	4 mm	21° Flo. + 1 mm oversize.
F1939P	I	35.04 mm	5.98 mm	121 mm	4 mm	19° Super Flo. Stock size.
F1940P	I	36.04 mm	5.98 mm	121 mm	4 mm	19° Super Flo. + 1 mm oversize
NOTE: These Ferrea Valves must be used with Ferrea Valve Locks # K10061.						
SUBARU WRX - EJ20 - 2001-2008						
F1968P	E	32 mm	5.96 mm	104.75 mm	3.5 mm	25° Flo. Stock size. Super Alloy
F1966P	E	33 mm	5.96 mm	104.75 mm	3.5 mm	25° Flo. + 1 mm oversize. Super Alloy
F1967P	I	36 mm	5.97 mm	104.6 mm	3.5 mm	19° Super Flo. Stock size.
F1965P	I	37 mm	5.97 mm	104.6 mm	3.5 mm	19° Super Flo. + 1 mm oversize
NOTE: These Ferrea Valves must be used with Ferrea Valve Locks # K10061.						
SUBARU WRX - STI - 2004-2008						
F1514P	E	32 mm	5.96 mm	104.75 mm	3.5 mm	25° Flo. Stock size. Super Alloy
F1519P	E	33 mm	5.96 mm	104.75 mm	3.5 mm	25° Flo. + 1 mm oversize. Super Alloy
F1520P	I	36 mm	5.97 mm	104.6 mm	3.5 mm	19° Super Flo. Stock size.
F1524P	I	37 mm	5.97 mm	104.6 mm	3.5 mm	19° Super Flo. + 1 mm oversize
NOTE: These Ferrea Valves must be used with Ferrea Valve Locks # K10074.						
TOYOTA 2TC-3TC-20R-22R						
F1435P	E	38 mm	8 mm	113.3 mm	4.6 mm	19° Super Flo-Toyotoa 20R
F1433P	E	39 mm	8 mm	108.9 mm	5 mm	19° Super Flo-Toyota 2TC-3TC
F1431P	E	39 mm	8 mm	112.2 mm	4.6 mm	19° Super Flo-Toyota 22R
F1434P	I	44 mm	8 mm	108.2 mm	5 mm	R. 8.3 mm Super Flo-Toyota 2TC-3TC
F1436P	I	45 mm	8 mm	115.4 mm	4.6 mm	R. 8.3 mm Super Flo-Toyota 20R
F1432P	I	47.1 mm	8 mm	113.4 mm	4.6 mm	R. 8.3 mm Super Flo-Toyota 22R
TOYOTA 4AG 1.6L 16 VALVE (ATLANTIC)- 1983-1989						
F1422P	E	27.5 mm	6 mm	99.75 mm	3.5 mm	28° Flo
F1421P	I	32 mm	6 mm	99.6 mm	3.5 mm	15° Flo
TOYOTA MR2 2.0L - DOHC 16 VALVE (TURBO 3SGTE) - 1990-1995						
F1865P	E	29 mm	6 mm	99.65 mm	3.5 mm	25° Flo. Stock size. Super Alloy
F1866P	E	30 mm	6 mm	99.65 mm	3.5 mm	25° Flo. 1 mm oversize. Super Alloy
F1863P	I	33.5 mm	6 mm	100.70 mm	3.5 mm	25° Super Flo. Stock size
F1864P	I	34.5 mm	6 mm	100.70 mm	3.5 mm	25° Super Flo. 1 mm oversize
TOYOTA LANDCRUISER 4.5L - DOHC 24 VALVE (1FZFE) - 1993-1997						
F2170P	E	32 mm	6.97 mm	97.86 mm	2.54 mm	22° Flo. Stock size. Special Alloy
F2168P	E	35 mm	6.97 mm	97.86 mm	2.54 mm	22° Flo. +3 mm oversize. Special Alloy
F2171P	I	38 mm	6.97 mm	98.35 mm	2.54 mm	20° Flo. Stock size. Special Alloy
F2169P	I	41 mm	6.97 mm	98.35 mm	2.54 mm	20° Flo. +3 mm oversize. Special Alloy



Brent Rau ten half inch tire drag car runs in the ADRL Series with big cubic inch V8s and runs record time with a Mitsubishi 4G63 Engine using nothing but Ferrea Racing Components.



Eserini Automotive turns up the wick with their record-holding rail chassis dragster powered by a water-cooled VW VR6 by running 7.339 @ 183.43mph in the 1/4 mile using Ferrea Racing valve train components.

SPORT COMPACT COMPETITION PLUS VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
TOYOTA 2.0 L - 3SGE ENGINE -						
F1944P	E	30.1 mm	5.46 mm	109.32 mm	2.25 mm	20° Flo. Oversize. Special Alloy
F1945P	I	35.5 mm	5.47 mm	106.63 mm	2 mm	12° Super Flo. Oversize
TOYOTA SUPRA 3.0L - DOHC 24 VALVE (7MGE-TURBO 7MGTE) - 1986-1992						
F1861P	E	27.5 mm	6 mm	98.20 mm	4 mm	25° Flo. Stock size. Super Alloy
F1862P	E	28.5 mm	6 mm	98.20 mm	4 mm	25° Flo. 1 mm oversize. Super Alloy
F1859P	I	32 mm	6 mm	98.20 mm	4 mm	25° Super Flo. Stock size
F1860P	I	33 mm	6 mm	98.20 mm	4 mm	25° Super Flo. 1 mm oversize
TOYOTA SUPRA 3.0L I/L 6 CYL - DOHC 24 VALVE (2JZGE-2JZGTE) - 1994-1998						
F1499P	E	29 mm	5.98 mm	99.1 mm	3.5 mm	22° Flo. Stock size. Super Alloy
F1497P	E	30 mm	5.98 mm	99.1 mm	3.5 mm	22° Flo. 1 mm oversize. Super Alloy
F1498P	I	33.6 mm	5.98 mm	98.55 mm	3.5 mm	20° Super Flo. Stock size
F1496P	I	34.6 mm	5.98 mm	98.55 mm	3.5 mm	20° Super Flo. 1 mm oversize
TOYOTA TACOMA (2RZ - 3RZ)						
F1993P	E	30.60 mm	5.967 mm	103.6 mm	3.50 mm	21° Flo. Dish Head. Stock size. Special Alloy
F1995P	E	31.60 mm	5.967 mm	103.6 mm	3.50 mm	21° Flo. Dish Head - 1mm oversize. Special Alloy
F1992P	I	37.55 mm	5.97 mm	103.6 mm	3.50 mm	19° Super Flo. Dish Head. Stock size.
F1994P	I	38.55 mm	5.97 mm	103.6 mm	3.50 mm	19° Super Flo. Dish Head. - 1mm oversize.
VW 1.8T - DOHC 20 VALVE - 1998-2005						
F1554P	E	29.9 mm	5.96 mm	103.92 mm	5 mm	26° Flo. Stock size. Trip. Groove. 2 Valves Required
F1555P	E	30.9 mm	5.96 mm	103.92 mm	5 mm	26° Flo. + 1 mm o/s. Trip. Groove. 2 Valves Required
F1556P	I	26.9 mm	5.97 mm	105.1 mm	5 mm	24° Sup Flo. Stock size. Trip Groove. 3 Valves Required
F1557P	I	27.9 mm	5.97 mm	105.1 mm	5 mm	24° Sup Flo. + 1 mm o/s. Trip. Groove. 3 Valves Required
VW VR6 2.8L - DOHC 12 VALVE - 1992-2002						
F1932P	E	34 mm	6.96 mm	106.90 mm	2.25 mm	22° Flo. Stock Size
F1920P	E	35 mm	6.96 mm	106.90 mm	2.25 mm	22° Flo. + 1 mm oversize
F1921P	E	35 mm	6.96 mm	106.90 mm	2.25 mm	22° S. Flo. + 1 mm o/size. S. Alloy. Turbo Appl.
F2135P	E	36 mm	6.96 mm	106.90 mm	2.25 mm	22° S. Flo. + 2 mm o/size. S. Alloy. Turbo Appl.
F1931P	I	39 mm	6.98 mm	106.15 mm	2.25 mm	20° S. Flo. Stock Size
F1919P	I	40 mm	6.98 mm	106.15 mm	2.25 mm	20° S. Flo. + 1 mm oversize
F2136P	I	41 mm	6.98 mm	106.15 mm	2.25 mm	20° S. Flo. + 2 mm oversize
VW VR6 2.8L - DOHC 24 VALVE (BDF) - 2002-2004 (*)						
F1988P	E	27.00mm	5.94mm	136.48mm	4.6mm	25° Flo. Triple Gro. Special Alloy. - Stock size
F1989P	E	27.00mm	5.94mm	102.58mm	4.6mm	25° Flo. Triple Gro. Special Alloy. - Stock size
F1990P	E	28.00mm	5.94mm	136.48mm	4.6mm	25° Flo. Triple Gro. Special Alloy. - 1mm oversize
F1991P	E	28.00mm	5.94mm	102.58mm	4.6mm	25° Flo. Triple Gro. Special Alloy. - 1mm oversize
F2137P	E	29.00mm	5.94mm	136.48mm	4.6mm	25° Flo. Triple Gro. Special Alloy. - 2mm oversize
F2138P	E	29.00mm	5.94mm	102.58mm	4.6mm	25° Flo. Triple Gro. Special Alloy. - 2mm oversize
F1984P	I	31.00mm	5.95mm	136.30mm	4.6mm	25° S. Flo. Triple Gro. Special Alloy. - Stock size
F1985P	I	31.00mm	5.95mm	102.40mm	4.6mm	25° S. Flo. Triple Gro. Special Alloy. - Stock size
F1986P	I	32.00mm	5.95mm	136.30mm	4.6mm	25° S. Flo. Triple Gro. Special Alloy. - 1mm o/size
F1987P	I	32.00mm	5.95mm	102.40mm	4.6mm	25° S. Flo. Triple Gro. Special Alloy. - 1mm o/size
F2139P	I	33.00mm	5.95mm	136.30mm	4.6mm	25° S. Flo. Triple Gro. Special Alloy. - 2mm o/size
F2140P	I	33.00mm	5.95mm	102.40mm	4.6mm	25° S. Flo. Triple Gro. Special Alloy. - 2mm o/size

(*) Every motor takes 6 long INT valves, 6 short INT valves, 6 long EXH valves, 6 short EXH valves

Sponsored Scion TC from Chris Rado has broken records this year in the Redline Time Attack Series, leading the Unlimited Class for the championship with Ferrea Racing Components.



SPORT COMPACT COMPETITION PLUS VALVES - BLANKS



Panoramic view Ferrea USA base Factory

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BLANKS 4-5 MM ("REQUIRE LASH CAPS OR HARD TIPS")						
F0066	E	23 mm	4 mm	125 mm	BLANK	21° Flo-No Groove-No Tip. Special Alloy
F0064	E/I	26.5 mm	4 mm	125 mm	BLANK	21° Flo-No Groove-No Tip. Special Alloy
F0232	I	30 mm	4 mm	135 mm	BLANK	21° Super Flo. Special Alloy
F0173	E	28.5 mm	4.46 mm	120 mm	BLANK	12° Flo-No Groove-No Tip. Special Alloy
F0171	I	31 mm	4.48 mm	120 mm	BLANK	12° Flo Bimetallic. Special Alloy
F0172	I	31 mm	4.48 mm	120 mm	BLANK	15° Flo Bimetallic. Special Alloy
F0063	E	26 mm	4.5 mm	125 mm	BLANK	21° Flo-No Groove-No Tip. Special Alloy
F0062	I	34 mm	4.5 mm	125 mm	BLANK	19° Flo-No Groove-No Tip. Special Alloy
F0183	E	29 mm	4.95 mm	130 mm	BLANK	12° Flo. Special Alloy
F0337	E	27 mm	4.97 mm	135 mm	BLANK	19° Flo. Special Alloy. Bi-Metallic
F0069	E	34 mm	4.97 mm	140 mm	BLANK	19° Flo. Super Alloy.
F0184	I	34 mm	4.97 mm	130 mm	BLANK	12° Flo. Special Alloy
F0338	I	32.1 mm	4.98 mm	135 mm	BLANK	19° Super Flo. Dish Head
BLANKS 5-6 MM ("REQUIRE LASH CAPS OR HARD TIPS")						
F0067	I	30 mm	5 mm	135 mm	BLANK	19° Flo-No Groove-No Tip. Special Alloy
F0065	E/I	38 mm	5 mm	135 mm	BLANK	19° Super Flo-No Groove-No Tip. Special Alloy
F0242	E	34 mm	5.48 mm	135 mm	BLANK	15° Flo. Flat Head. Special Alloy
F1943P	E	32 mm	5.48 mm	140 mm	BLANK	22° Flo. Super Alloy Turbo Applications
F1459P	E	32 mm	5.48 mm	135 mm	BLANK	22° Flo. Super Alloy
F1457P	I	37 mm	5.48 mm	135 mm	BLANK	20° Super Flo. Special Alloy
F0241	I	41 mm	5.48 mm	135 mm	BLANK	14° Super Flo. Flat Head. Special Alloy
F0231	E	30 mm	5.5 mm	135 mm	BLANK	19° Flo. Dish Head. Top Fuel. Super Alloy
F0238	E	32 mm	5.5 mm	135 mm	BLANK	22° Flo-No Groove-No Tip. Special Alloy
F0047	I	34 mm	5.5 mm	135 mm	BLANK	19° Super Flo-No Groove-No Tip. Special Alloy
F0233	I	36 mm	5.5 mm	135 mm	BLANK	25° Super Flo. HONDA. Special Alloy
F0253	I	42 mm	5.5 mm	135 mm	BLANK	19° Super Flo. Special Alloy
F1492P	E	34 mm	5.95 mm	140 mm	BLANK	21° Tulip Flo. Bimetallic Super Alloy
F1942P	E	34 mm	5.95 mm	140 mm	BLANK	21° Flo. Super Alloy Turbo Applications
F0176	E	36 mm	5.95 mm	135 mm	BLANK	21° Flo. Special Alloy
F0175	E	36 mm	5.96 mm	135 mm	BLANK	21° Super Flo-No Groove-No Tip. Special Alloy
F1580P	I	36 mm	5.97 mm	145 mm	BLANK	12° Super Flo-No Groove-No Tip. Special Alloy
F1581P	I	38 mm	5.97 mm	145 mm	BLANK	15° Super Flo-No Groove-No Tip. Special Alloy
F0174	I	42 mm	5.97 mm	135 mm	BLANK	19° Super Flo-No Groove-No Tip. Special Alloy
F0293	I	46 mm	5.97 mm	145 mm	BLANK	19° Super Flo. Special Alloy.
F1582P	I	46 mm	5.97 mm	145 mm	BLANK	12° Super Flo-No Groove-No Tip.
F1996P	E	38 mm	5.975mm	140 mm	BLANK	21° Flo. Super Alloy. Turbo application

SPORT COMPACT COMPETITION PLUS VALVES - BLANKS

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BLANKS 6-7 MM ("REQUIRE LASH CAPS OR HARD TIPS")						
F0060	I	40 mm	6 mm	145 mm	BLANK	19° Super Flo-No Groove-No Tip. Special Alloy
F1595P	E	31 mm	6.02 mm	145 mm	BLANK	25° Flo Special Alloy. Ford
F1596P	I	36 mm	6.03 mm	145 mm	BLANK	19° Super Flo. Ford
F1455P	E	32.5 mm	6.55 mm	135 mm	BLANK	22° Flo Super Alloy
F1941P	E	32.5 mm	6.55 mm	140 mm	BLANK	22° Flo Super Alloy Turbo Applications
F1453P	E	36 mm	6.57 mm	135 mm	BLANK	20° Super Flo. Special Alloy
F1438P	I	38 mm	6.58mm	135 mm	BLANK	20° Super Flo
F1585P	E	34 mm	6.95mm	145 mm	BLANK	15° Flo. No Groove-No Tip. Special Alloy
F1586P	I	39 mm	6.97mm	145 mm	BLANK	12° Super Flo. No Groove-No Tip. Special Alloy
F1419P	E	34.5 mm	6.98 mm	135 mm	BLANK	30° Flo. Special Alloy
F1418P	I	40 mm	6.98 mm	135 mm	BLANK	20° Super Flo. Special Alloy
F0077	E	1.750	.275	5.710	BLANK	24° Tulip Flo. Special Alloy. Harley Davidson
F0078	I	2.100	.275	5.710	BLANK	24° Tulip Flo. Harley Davidson
BLANKS (7-8 mm) ("REQUIRE LASH CAPS or HARD TIPS")						
F0004	E	33 mm	7mm	135 mm	BLANK	22° Flo-No Groove-No Tip. Special Alloy
F0345	E	33mm	7mm	145mm	BLANK	22° Flo. Super Alloy. No groove. No tip
F0034	E	36 mm	7mm	135 mm	BLANK	22° Flo-No Groove-No Tip. Special Alloy
F0038	E	39 mm	7mm	135 mm	BLANK	22° Tulip Flo-No Groove-No Tip. Special Alloy
F0346	E	39mm	7mm	145mm	BLANK	22° Flo. Super Alloy. No groove. No tip
F0303B	E	41 mm	7 mm	117 mm	2.5 mm	25° Flo. Over Size. Triple Groove
F0002	I	42 mm	7mm	135 mm	BLANK	20° Flo-No Groove-No Tip. Special Alloy
F0039	I	46 mm	7mm	145 mm	BLANK	12° Flo-No Groove-No Tip. Special Alloy
F0301B	I	46 mm	7 mm	114.8 mm	2.5 mm	25° Super Flo. Over Size. Triple Groove
F2162P	E	32mm	7.09mm	145mm	BLANK	R. 12mm Flo. Flat Head
F2163P	I	38mm	7.10mm	145mm	BLANK	19° Super Flo. Flat Head
F0029	E	1.750	.308	5.118	BLANK	24° Flo-No Groove-No Tip. Special Alloy.
F1583P	E	1.650	.313	6.000	BLANK	15° Super Flo. Special Alloy. GM LS7/L92
F1584P	E	1.650	.313	6.000	BLANK	24° Super Flo. Special Alloy. GM LS7/L92
F0230	E	41 mm	7.96mm	135 mm	BLANK	20° Super Flo. DUCATI. Special Alloy
F1587P	I	2.000	.3135	6.000	BLANK	12° Super Flo. GM LS7/L92
F1588P	I	2.200	.3135	6.000	BLANK	12° Super Flo. GM LS7/L92
F0229	I	47 mm	7.98mm	135 mm	BLANK	20° Super Flo. DUCATI. Special Alloy
F1182P	E	41 mm	8mm	135 mm	BLANK	15° Super Flo. Finished. No groove. Special Alloy
F1442P	I	44 mm	8mm	110 mm	8.5 mm	10° Super Flo. Special Alloy
F1192P	I	48 mm	8mm	135 mm	BLANK	26° Super Flo. Finished. No Groove. Special Alloy
BLANKS (TITANIUM)						
F0404	E	30 mm	4.98 mm	135 mm	BLANK	20° Flo Hi Temp
F0403	I	35 mm	4.98 mm	135 mm	BLANK	17° Super Flo
F0424	E	34 mm	5.5 mm	145 mm	BLANK	30° IRL-Indy
F0042	E	32 mm	5.5 mm	145 mm	BLANK	26° Tulip Flo
F0423	I	41 mm	5.5 mm	145 mm	BLANK	12° IRL-Indy
F0043	I	38 mm	5.5 mm	135 mm	BLANK	26° Tulip Super Flo
F0235	E	34 mm	5.95 mm	135 mm	BLANK	21° Flo. Dish Head
F0234	I	40 mm	5.97 mm	135 mm	BLANK	19° Super Flo. Flat Head
F0040	E	40 mm	7 mm	145 mm	BLANK	26° Tulip Super Flo-Pro Stock
F0400	E	40 mm	7 mm	145 mm	BLANK	30° Tulip Super Flo-Pro Stock
F0041	I	50 mm	7 mm	145 mm	BLANK	25° Tulip Super Flo-Pro Stock
F0420	I	50 mm	7 mm	145 mm	BLANK	19° Super Flo-Pro Stock
F0056	I	50 mm	7 mm	145 mm	BLANK	15° Super Flo-Pro Stock
F0422	E	32.5 mm	7.095 mm	145 mm	BLANK	30° IRL-Indy
F0421	I	39 mm	7.1 mm	145 mm	BLANK	19° IRL-Indy



SPORT COMPACT 6000 SERIES COMPETITION VALVES



Ferrea Valves, the world's leading manufacturer of racing valves, introduces the **Sport Compact** market into the already race-proven **Ferrea 6000 Series Competition Valves**.

This **Ferrea Valves** Series is designed to provide excellent reliability in an environment of high RPM and high spring pressures, at a budget price.

These valves have **higher fatigue resistance** and **tensile strengths** than our competitor's best offering. The 6000 Series Competition Valves are specially designed for street, drag and rally racing applications.

To manufacture the valves we use our exclusive **two-step slow-forging process** applied to the **special alloys** selected to suit **intake and exhaust applications**.

We provide a unique **heat-treatment** and **stress-relieving process**, along with **hard chrome stems** and **friction-welded hard tips**. We finish the valves with a **swirl-polished head**.

Ferrea Valves feature **flow improvements** to deliver the power needed for today's sophisticated **Sport Compact** racing engines.



SPORT COMPACT 6000 SERIES COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE (B17A1) - 1992-1993						
ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE (B18C1-C3) - 1994-2000						
F6049	E	28 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo Stock size. Special Alloy
F6047	E	28.5 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - .5 mm oversize. Special Alloy
F6045	E	29 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - 1 mm oversize. Special Alloy
F6048	I	33 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo. Stock size
F6046	I	33.5 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo - .5 mm oversize
F6044	I	34 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo - 1 mm oversize
ACURA INTEGRA LS-GS 1.8L - DOHC 16 VALVE (B18A1-B1) - 1990-2000						
F6015	E	28 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - Stock size. Special Alloy
F6016	I	31 mm	6.57 mm	105.5 mm	4.1 mm	20° Super Flo Dish Head - Stock size
ACURA RSX 2.0L - DOHC V-TEC 16 VALVE (K20) - 2001-2006						
F6071	E	30 mm	5.45 mm	109.15 mm	2.5 mm	22° Flo. Radius Groove - Stk size. Special Alloy
F6072	E	31 mm	5.45 mm	109.15 mm	2.5 mm	22° Flo. Radius Groove. + 1 mm over size. Special Alloy
F6073	I	35 mm	5.47 mm	109.3 mm	2.5 mm	20° Super Flo. Radius Groove. Stk size.
F6074	I	36 mm	5.47 mm	109.3 mm	2.5 mm	20° Super Flo. Radius Groove. + 1 mm over size
AUDI 80 QUATRO 2.2 L - DOHC 20 VALVE (7A) - 1989-1992						
AUDI 200 QUATRO 2.2 L - DOHC 20 VALVE (3B) - 1991						
AUDI COUPE QUATRO 2.2 L - DOHC 20 VALVE (7A) - 1990-1991						
F6027	E	28.1 mm	6.93 mm	98.3 mm	2.8 mm	22° Flo Radius Groove. Stk size. Special Alloy
F6028	E	28.6 mm	6.93 mm	98.3 mm	2.8 mm	22° Flo Radius Groove. + 0.5 mm over size. Special Alloy
F6029	I	32 mm	6.96 mm	95.5 mm	2.6 mm	15° S. Flo Radius Groove. Stock size.
F6030	I	32.5 mm	6.96 mm	95.5 mm	2.6 mm	15° S. Flo Radius Groove. + 0.5 mm over size.

New

SPORT COMPACT 6000 SERIES COMPETITION VALVES

New

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
AUDI RS2 2.2 L - DOHC 20 VALVE (ADU) - 1994-1995						
AUDI S4 2.2 L - DOHC 20 VALVE (AAN) - 1992-1994						
AUDI S6 2.2 L - DOHC 20 VALVE (AAN) - 1995						
F6027	E	28.1 mm	6.93 mm	98.3 mm	2.8 mm	22° Flo Radius Groove. Stk size. Special Alloy
F6028	E	28.6 mm	6.93 mm	98.3 mm	2.8 mm	22° Flo Radius Groove. + 0.5 mm over size. Special Alloy
F6029	I	32 mm	6.96 mm	95.5 mm	2.6 mm	15° S. Flo Radius Groove. Stock size.
F6030	I	32.5 mm	6.96 mm	95.5 mm	2.6 mm	15° S. Flo Radius Groove. + 0.5 mm over size
AUDI V8 3.6 L - DOHC 32 VALVE (PT) - 1990-1991						
AUDI V8 4.2 L - DOHC 32 VALVE (ABH) - 1992-1994						
F6027	E	28.1 mm	6.93 mm	98.3 mm	2.8 mm	22° Flo Radius Groove. Stk size. Special Alloy
F6028	E	28.6 mm	6.93 mm	98.3 mm	2.8 mm	22° Flo Radius Groove. + 0.5 mm over size. Special Alloy
F6029	I	32 mm	6.96 mm	95.5 mm	2.6 mm	15° S. Flo Radius Groove. Stock size.
F6030	I	32.5 mm	6.96 mm	95.5 mm	2.6 mm	15° S. Flo Radius Groove. + 0.5 mm over size
HONDA CIVIC 1.6L - SOHC 16 VALVE (D16Z6-Y5-Y7-Y8) - 1992-2000						
F6067	E	26 mm	5.46 mm	115.95 mm	1.9 mm	22° Flo. Radius Groove. Stk size
F6070	E	27 mm	5.46 mm	115.95 mm	1.9 mm	22° Flo. Radius Groove. + 1 mm over size.
F6068	I	30 mm	5.48 mm	118.6 mm	1.9 mm	20° Super Flo. Radius Groove. Stk size
F6069	I	31 mm	5.48 mm	118.6 mm	1.9 mm	20° Super Flo. Radius Groove. + 1 mm over size.
HONDA DEL SOL 1.6L - DOHC V-TEC 16 VALVE (B16A1) - 1994-1997						
HONDA CIVIC SI 1.6L - DOHC V-TEC 16 VALVE (B16A3) - 1999-2000						
F6049	E	28 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo Stock size. Special Alloy
F6047	E	28.5 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - .5 mm oversize. Special Alloy
F6045	E	29 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo - 1 mm oversize. Special Alloy
F6048	I	33 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo. Stock size
F6046	I	33.5 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo - .5 mm oversize
F6044	I	34 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo - 1 mm oversize
HONDA CRV 2.0L - DOHC 16 VALVE (B20A-B20Z) - 1997-2000						
F6015	E	28 mm	6.54 mm	106.02 mm	4.1 mm	30° Flo Dish Head - Stock size. Special Alloy
F6016	I	31 mm	6.57 mm	105.5 mm	4.1 mm	20° Super Flo Dish Head - Stock size
HONDA PRELUDE 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000						
F6023	E	30 mm	5.48 mm	107.1 mm	2.8 mm	22° Flo. Stock size. Special Alloy
F6058	E	31 mm	5.48 mm	107.1 mm	2.8 mm	22° Flo. 1 mm oversize. Special Alloy
F6024	I	35 mm	5.48 mm	106.85 mm	2.8 mm	20° Super Flo. Stock size
F6056	I	36 mm	5.48 mm	106.85 mm	2.8 mm	20° Super Flo. 1 mm oversize
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999						
F6025	E	30.5 mm	6.55 mm	109.7 mm	3.8 mm	22° Flo. Stock size. Special Alloy
F6054	E	31.5 mm	6.55 mm	109.7 mm	3.8 mm	22° Flo. 1 mm oversize. Special Alloy
F6026	I	34 mm	6.57 mm	109.7 mm	3.8 mm	20° Super Flo. Stock size
F6052	I	35 mm	6.57 mm	109.7 mm	3.8 mm	20° Super Flo. 1 mm oversize
NISSAN 350 Z 3.5 L - V-6 - DOHC 24 VALVE (VQ35) - 2003-2008						
F6017	E	31.35 mm	5.96 mm	94.4 mm	3.5 mm	22° Flo. Radius Groove. Stock size.
F6018	E	32.35 mm	5.96 mm	94.4 mm	3.5 mm	22° Flo. Radius Groove. + 1 mm over size
F6019	I	37.15 mm	5.97 mm	96.7 mm	3.5 mm	20° S. Flo. Radius Groove. Stock size.
F6020	I	38.15 mm	5.97 mm	96.7 mm	3.5 mm	20° S. Flo. Radius Groove. + 1 mm over size
(*) These valves feature a .5 mm stem reduction in the groove area to allow the use of OEM components (valve locks and spring retainers).						
SUBARU WRX - EJ20 - 2001-2008						
F6075	E	32 mm	5.96 mm	104.75 mm	3.5 mm	25° Flo. Radius Groove. Stock size. Special Alloy
F6076	E	33 mm	5.96 mm	104.75 mm	3.5 mm	25° Flo. Radius Groove. + 1 mm over size. Special Alloy
F6077	I	36 mm	5.97 mm	104.6 mm	3.5 mm	19° S. Flo. Radius Groove. Stock size.
F6078	I	37 mm	5.97 mm	104.6 mm	3.5 mm	19° S. Flo. Radius Groove. + 1 mm over size.
NOTE: These Ferrea Valves must be used with Ferrea Valve Locks # K10061.						



SPORT COMPACT 6000 SERIES COMPETITION VALVES



Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
TOYOTA MR2 2.0L -DOHC 16 VALVE (TURBO 3SGTE) - 1990-1995						
F6065	E	29 mm	6 mm	99.65 mm	3.5 mm	25° Flo. Stock size. Special Alloy
F6066	E	30 mm	6 mm	99.65 mm	3.5 mm	25° Flo. 1 mm oversize. Special Alloy
F6063	I	33.5 mm	6 mm	100.70 mm	3.5 mm	25° Super Flo. Stock size
F6064	I	34.5 mm	6 mm	100.70 mm	3.5 mm	25° Super Flo. 1 mm oversize
TOYOTA SUPRA 3.0L - DOHC 24 VALVE (7MGE-TURBO 7MGTE) - 1986-1992						
F6061	E	27.50 mm	6 mm	98.20 mm	4 mm	25° Flo. Stock size. Special Alloy
F6062	E	28.50 mm	6 mm	98.20 mm	4 mm	25° Flo. 1 mm oversize. Special Alloy
F6059	I	32 mm	6 mm	98.20 mm	4 mm	25° Super Flo. Stock size
F6060	I	33 mm	6 mm	98.20 mm	4 mm	25° Super Flo. 1 mm oversize
TOYOTA SUPRA 3.0L I/L 6 CYL - DOHC 24 VALVE (2JZGE-2JZGTE) - 1994-1998						
F6099	E	29 mm	5.98 mm	99.1 mm	3.5 mm	22° Flo. Stock size. Special Alloy
F6097	E	30 mm	5.98 mm	99.1 mm	3.5 mm	22° Flo. 1 mm oversize. Special Alloy
F6098	I	33.60 mm	5.98 mm	98.55 mm	3.5 mm	20° Super Flo. Stock size
F6096	I	34.60 mm	5.98 mm	98.55 mm	3.5 mm	20° Super Flo. 1 mm oversize
TOYOTA TACOMA						
F6670S	E	30.5 mm	5.967 mm	103.40 mm	3.80 mm	21° Flo. Stock Size
F6670	E	33 mm	5.967 mm	103.40 mm	3.80 mm	21° Flo. Oversize
F6669S	I	37.5 mm	5.97 mm	103.50 mm	3.80 mm	19° Super Flo. Stock Size
F6669	I	40 mm	5.97 mm	103.15 mm	3.80 mm	19° Super Flo. Oversize
VW GOLF / JETTA 1.8 L - DOHC 16 VALVE (PL) -1987-1989						
VW SCIROCCO 1.8 L - DOHC 16 VALVE (PL) -1986-1988						
F6027	E	28.1 mm	6.93 mm	98.3 mm	2.8 mm	22° Flo Radius Groove. Stk size. Special Alloy
F6028	E	28.6 mm	6.93 mm	98.3 mm	2.8 mm	22° Flo Radius Groove. + 0.5 mm over size. Special Alloy
F6029	I	32 mm	6.96 mm	95.5 mm	2.6 mm	15° S. Flo Radius Groove. Stock size.
F6030	I	32.5 mm	6.96 mm	95.5 mm	2.6 mm	15° S. Flo Radius Groove. + 0.5 mm over size
VW GOLF / JETTA 2.0 L - DOHC 16 VALVE (9A) -1990-1992						
VW PASSAT 2.0 L - DOHC 16 VALVE (9A) -1990-1994						
F6027	E	28.1 mm	6.93 mm	98.3 mm	2.8 mm	22° Flo Radius Groove. Stk size. Special Alloy
F6028	E	28.6 mm	6.93 mm	98.3 mm	2.8 mm	22° Flo Radius Groove. + 0.5 mm over size. Special Alloy
F6029	I	32 mm	6.96 mm	95.5 mm	2.6 mm	15° S. Flo Radius Groove. Stock size.
F6030	I	32.5 mm	6.96 mm	95.5 mm	2.6 mm	15° S. Flo Radius Groove. + 0.5 mm over size

SPORT COMPACT 6000 SERIES COMPETITION VALVES



BTC Racing Lexus IS runs in the British Touring Car Championship is a big contender for the Championship this year with Ferrea Racing Components.

New

SPORT COMPACT

New

5000 SERIES HI PERFORMANCE VALVES

The 5000 Series Valves have become the **alternative for performance & street** engine builder that use our competitors "street" or "performance valve". These valves are produced in our state-of-the-art CNC centers allowing for tight tolerances and cost-effective design.

FEATURES

- ONE-PIECE FORGING STAINLESS STEEL
- PROPRIETARY HEAT TREATMENT PROCESS
- FLAT FACE
- HIGH COMPRESSION APPLICATIONS
- HARD CHROME STEMS
- FULLY CNC MACHINED

These valves provide customers with **Ferrea quality** at a Budget Price, and are designed for **Street Performance engines**, mildly modified applications.



Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE (B17A1) - 1992-1993						
ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE (B18C1-C3) - 1994-2000						
F5500	E	28 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo. Stock size. Flat Head. Special Alloy
F5501	E	29 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo. + 1 mm oversize. Flat Head. Special Alloy
F5502	I	33 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo. Stock size. Flat Head
F5503	I	34 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo. + 1 mm oversize. Flat Head
ACURA RSX 2.0L - DOHC V-TEC 16 VALVE (K20) - 2001-2008						
F5508	E	30 mm	5.45 mm	109.15 mm	2.5 mm	22° Flo. Stock size. Flat Head. Special Alloy
F5509	E	31 mm	5.45 mm	109.15 mm	2.5 mm	22° Flo. + 1 mm oversize. Flat Head. Special Alloy
F5510	I	35 mm	5.47 mm	109.3 mm	2.5 mm	20° Super Flo. Stock size. Flat Head
F5511	I	36 mm	5.47 mm	109.3 mm	2.5 mm	20° Super Flo. + 1 mm oversize. Flat Head
HONDA CIVIC 1.6L - SOHC 16 VALVE (D16Z6-Y5-Y7-Y8) - 1992-2000						
F5512	E	26 mm	5.46 mm	115.95 mm	1.9 mm	22° Flo. Stock size. Flat Head. Special Alloy
F5514	E	27 mm	5.46 mm	115.95 mm	1.9 mm	22° Flo. + 1 mm over size. Flat Head. Special Alloy
F5515	I	30 mm	5.48 mm	118.6 mm	1.9 mm	20° Super Flo. Stock size. Flat Head
F5516	I	31 mm	5.48 mm	118.6 mm	1.9 mm	20° Super Flo. + 1 mm over size. Flat Head
HONDA DEL SOL 1.6L - DOHC V-TEC 16 VALVE (B16A1) - 1994-1997						
HONDA CIVIC SI 1.6L - DOHC V-TEC 16 VALVE (B16A3) - 1999-2000						
F5500	E	28 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo. Stock size. Flat Head. Special Alloy
F5501	E	29 mm	5.45 mm	102.5 mm	2.5 mm	25° Flo. + 1 mm oversize. Flat Head. Special Alloy
F5502	I	33 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo. Stock size. Flat Head
F5503	I	34 mm	5.47 mm	102.35 mm	2.5 mm	25° Super Flo. + 1 mm oversize. Flat Head
HONDA PRELUDE 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000						
F5504	E	30 mm	5.48 mm	107.1 mm	2.5 mm	22° Flo. Stock size. Flat Head. Special Alloy
F5505	E	31 mm	5.48 mm	107.1 mm	2.5 mm	22° Flo. + 1 mm oversize. Flat Head. Special Alloy
F5506	I	35 mm	5.48 mm	106.85 mm	2.5 mm	20° Super Flo. Stock size. Flat Head
F5507	I	36 mm	5.48 mm	106.85 mm	2.5 mm	20° Super Flo. + 1 mm oversize. Flat Head
HONDA S 2000 - F20C - 2000-2003						
HONDA S 2000 - F22C - 2004-2008						
F5517	E	31 mm	5.46 mm	109.25 mm	1.9 mm	22° Flo. Stock size. Flat Head. Special Alloy
F5518	E	32 mm	5.46 mm	109.25 mm	1.9 mm	22° Flo. + 1 mm oversize. Flat Head. Special Alloy
F5519	I	36 mm	5.48 mm	110 mm	1.9 mm	20° Super Flo. Stock size. Flat Head
F5520	I	37 mm	5.48 mm	110 mm	1.9 mm	20° Super Flo. + 1 mm oversize. Flat Head

SPORT COMPACT ROLLER ROCKER SYSTEM ⁽¹⁾

This **New and optimized** Special “**Aluminum-Magnesium Roller Rocker System**” was designed and developed by **Ferrea** to replace the factory “Steel Rocker Arm System” and eliminate the V-TEC Function. Factors such as weight, mass moment of inertia, deflection, and cycle durability are taken into account throughout the design and testing process.

Premium Material: We use special high quality **70 Series Aerospace Aluminum-Magnesium Alloy**, heat-treated to provide superior strength.

Manufacturing: Fully CNC machined, profiled for weight reduction, (OEM unit weighs 110% more) which improves moment of inertia, and increases the RPM range of Valve-train.

Roller Wheel: The **Roller Needle Bearing** prevents roller from skidding across the camshaft surface, unlike the (OEM) stock rocker pad, thus reducing friction dramatically.

Tool Steel Pin: The **Tool Steel Roller Pin** is compressed between the rocker to stabilize the rocker motion throughout the entire RPM range.

Installation: Our **Roller Rocker System** comes with all hardware and requires no head modifications for installation.

(1) U.S. Patent No. US6, 352, 062 B1.



The Lucas Oil Honda Civic of Richard Holdener retains its title as the World's Fastest Honda Civic going through the traps at 227mph, once again with Ferrea Valves setting records at Bonneville.



Part N°	References
	ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE (B17A1) - 1992-1993 ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE (B18C1-C3) - 1994-2000 HONDA DEL SOL 1.6L - DOHC V-TEC 16 VALVE (B16A1) - 1994-1997 HONDA CIVIC SI 1.6L - DOHC V-TEC 16 VALVE (B16A3) - 1999-2000
RR1000	Aluminum-Magnesium CNC machined
	ACURA NSX - 1991-2002 HONDA PRELUDE 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000
RR1001	Aluminum-Magnesium CNC machined

SPORT COMPACT CAMSHAFTS



Ferrea introduces its new “roller cams” for Acura and Honda V-TEC engines. Made from 8620 steel billet cores, these new roller cams produce amazing increases in torque, horsepower and throttle response while increasing the rpm power band in performance engines. Quicker acceleration, on turbo motors, spools turbo faster for quicker boost. These cams are designed to reduce valve train weight, thus creating faster moment of inertia response. They also require high performance springs and titanium retainers.

Part N°	Specifications
ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE (B17A1) - 1992-1993	
ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE (B18C1-C3) - 1994-2000	
HONDA DEL SOL 1.6L - DOHC V-TEC 16 VALVE (B16A1) - 1994-1997	
HONDA CIVIC SI 1.6L - DOHC V-TEC 16 VALVE (B16A3) - 1999-2000	
A10001E	Exhaust. Normally Aspirated Engines and Turbo Applications. See Technical Data Sheet for detail information
A10001I	Intake. Normally Aspirated Engines and Turbo Applications. See Technical Data Sheet for detail information
A10002E	Exhaust. Turbo Applications. Drag Racing. See Technical Data Sheet for detail information
A10002I	Intake. Turbo Applications. Drag Racing. See Technical Data Sheet for detail information
A10003E	Exhaust. Road Racing Applications. See Technical Data Sheet for detail information
A10003I	Intake. Road Racing Applications. See Technical Data Sheet for detail information
A10007E	Exhaust. For Drag Racing applications. Please check with Technical Department.
A10007I	Intake. For Drag Racing applications. Please check with Technical Department.
A10009E	Exhaust. For Drag Racing applications (Turbo, Drag Racing, Nitrous). Please check with Technical Department
A10009I	Intake. For Drag Racing applications (Turbo, Drag Racing, Nitrous). Please check with Technical Department
A10011E	Exhaust. For Drag Racing applications (Turbo, Drag Racing, Nitrous). Please check with Technical Department
A10011I	Intake. For Drag Racing applications (Turbo, Drag Racing, Nitrous). Please check with Technical Department
HONDA PRELUDE 2.2 L -DOHC V-TEC 16 VALVE (H22A1-A4) 1993-2000	
A10004E	Exhaust. For applications (Turbo, Drag Racing, Road Racing) please check with Technical Department.
A10004I	Intake. For applications (Turbo, Drag Racing, Road Racing) please check with Technical Department.
A10005E	Exhaust. For applications (Turbo, Drag Racing, Road Racing) please check with Technical Department.
A10005I	Intake. For applications (Turbo, Drag Racing, Road Racing) please check with Technical Department.
A10006E	Exhaust. For applications (Turbo, Drag Racing, Road Racing) please check with Technical Department.
A10006I	Intake. For applications (Turbo, Drag Racing, Road Racing) please check with Technical Department.

New

SPORT COMPACT BEEHIVE VALVE SPRINGS

New



Ferrea Racing Components introduces our new **PAC Alloy Beehive Valve Spring** series for the Sport compact performance street/strip applications. These single Beehive form valve springs are designed and optimized to reduce valvetrain harmonics, provide greater spring stability, and reduce spring and retainer masses for increase performance and durability in today's harsh engines environments.

PAC Alloy Beehive Valve Springs are developed from premium grade super-clean **PAC Alloy** material designed for racing applications. These valve springs are crafted using the latest technology in manufacturing and processing techniques through the use of state-of-the-art equipment unmatched throughout the industry. Our springs are progressively coiled with tighter tolerances, heat treated, stress relieved, and multistage shot peen for extended life and durability. Strict quality control procedures and cycle testing ensures consistency from batch-to-batch.

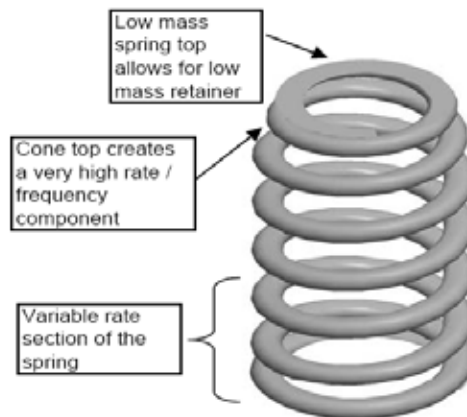
We have expanded our valve spring line offering **PAC Alloy Beehive Ovate (Oval/Multi-Radius) wire shape** designed to withstand aggressive endurance requirements. Key advantages in using an ovate wire shape are better heat dissipation for longer life, and valvetrain stresses are more effectively distributed over the entire wire shape extending spring life and enabling more horsepower. They have the highest level of fatigue resistance available, while minimizing load loss for today's aggressive valvetrain combinations.



SPORT COMPACT BEEHIVE VALVE SPRINGS



Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
ACURA INTEGRA GSR 1.7L DOHC V-TEC 16 VALVE (B17A1) - 1992-1993 ACURA INTEGRA GSR 1.8L DOHC V-TEC 16 VALVE (B18C1-C3) - 1994-2000								
S2014	Single Beehive Ovate. PAC Alloy Nitrided	22.94mm	14.73mm	70 lbs	160 lbs	230 lbs	17.50mm	12.70mm
	Street Performance	30.48mm	22.27mm	@31.75mm	@21.75mm			
	This Spring requires Ferrea Titanium Retainer # E12020 and Ferrea Spring Seat Locator #SL1090							
ACURA RSX 2.0L - DOHC V-TEC 16 VALVE (K20) - 2001-2006								
S2018	Single Beehive Ovate. PAC Alloy Nitrided	23.87mm	14.73mm	90 lbs	225 lbs	342 lbs	24mm	14mm
	Street Performance	28.07mm	18.85mm	@39mm	@29mm			
	This Spring requires Ferrea Titanium Retainer # E12027 and Ferrea Spring Seat Locator #SL1094							
HONDA DEL SOL 1.6L - DOHC V-TEC 16 VALVE (B16A1)-1994-1997 HONDA CIVIC SI 1.6L - DOHC V-TEC 16 VALVE (B16A3)-1999-2000								
S2014	Single Beehive Ovate. PAC Alloy Nitrided	22.94mm	14.73mm	70 lbs	160 lbs	230 lbs	17.50mm	12.70mm
	Street Performance	30.48mm	22.27mm	@31.75mm	@21.75mm			
	This Spring requires Ferrea Titanium Retainer # E12020 and Ferrea Spring Seat Locator #SL1090							
HONDA PRELUDE 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000								
S2014	Single Beehive. Ovate. PAC Alloy Nitrided	22.94mm	14.73mm	70 lbs	160 lbs	230 lbs	17.50mm	12.70mm
	Street Performance	30.48mm	22.27mm	@31.75mm	@21.75mm			
	This Spring requires Ferrea Titanium Retainer # E12020 and Ferrea Spring Seat Locator #SL1090							
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999								
S2015	Single Beehive Ovate. PAC Alloy	23.87mm	14.73mm	90 lbs	225 lbs	342 lbs	23mm	13.5mm
	Street Performance	28.07mm	18.85mm	@38mm	@28mm			
	This Spring requires Ferrea Titanium Retainer # E12021 and Ferrea Spring Seat Locator #SL1091							



PAC Racing develops beehive springs with the aid of RPD (Rapid Prototype Development) a computational technique to ensure that the engine runs as expected. Numerous spring designs are evaluated and tested before the final spring shape is determined.

SPORT COMPACT VALVE SPRINGS



Our New **Ferrea Valve Springs** are processed with premium-grade alloy and feature special thermal treatment. Our advanced spring design and material specifications, have uniform load & stress distribution even in the most extreme racing environment. This New Valve Spring offers customers additional durability in all high revving applications at an affordable price.

SPORT COMPACT VALVE SPRINGS

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE (B17A1) - 1992-1993								
ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE (B18C1-C3) - 1994-2000								
S10027	Dual Spring - Hi Pressure Special Alloy	22.8 mm 30.10 mm	17.15 mm 22.88 mm	100 lbs @ 34 mm	220 lbs @ 24 mm	305 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11000 OR Ferrea Aluminum Magnesium Retainer # E10018 and Ferrea Spring Seat Locator # SL1000 (Discard OEM Spring Seat Locator)								
S10028	Single Spring Special Alloy	30.10 mm	22.88 mm	55 lbs @ 34 mm	125 lbs @ 24 mm	178 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11000 OR Ferrea Aluminum Magnesium Retainer # E10018 and Factory supplied Spring Seat Locator OR Ferrea Spring Seat Locator # SL1004								
S10032	Dual Spring - Drag Racing Special Alloy	22.88 mm 30.10 mm	17.15 mm 22.88 mm	80 lbs @ 35 mm	195 lbs @ 25 mm	292 lbs	21 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11003 and Ferrea Spring Seat Locator # SL1000 (Discard OEM Spring Seat Locator)								
S10035	Dual Chrome Silicon	20.8 mm 28.0 mm	16.51 mm 20.8 mm	65 lbs @ 35 mm	185 lbs @ 25 mm	305 lbs	20 mm	14 mm
This Spring requires Ferrea Titanium Retainer #E11035 OR Ferrea Aluminum Magnesium Retainer # E10021 and Ferrea Spring Seat Locator # SL1005 (Discard OEM Spring Seat Locator)								
S10064	Dual Spring - Turbo Special Alloy- Hi Pressure	22.88 mm 30.10 mm	17.15 mm 22.88 mm	95 lbs @34 mm	215 lbs @24 mm	305 lbs	19 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11000 and Ferrea Spring Seat Locator # SL1000 (Discard OEM Spring Seat Locator)								

SPORT COMPACT VALVE SPRINGS

Part N ^o	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE (B17A1) - 1992-1993 ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE (B18C1-C3) - 1994-2000								
S10070	Dual Spring - Special Alloy Endurance Spring	22.85 mm 30.45 mm	17.5 mm 22.85 mm	80 lbs @33 mm	190 lbs @23 mm	279 lbs	18 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11000 and Ferrea Spring Seat Locator # SL1004 (Discard OEM Spring Seat Locator). Maximum Retainer Step: 3.6 mm								
S10086	Dual Spring Special Alloy Endurance Application	22.85mm 30.45mm	17.5mm 22.85mm	110 lb @ 34mm	260 lb @ 21mm	292 lbs	20 mm	13 mm
This Spring requires Ferrea Titanium Retainer # E11000 and Ferrea Spring Seat Locator # SL1044 (Discard OEM Spring Seat Locator) This Spring requires Ferrea Roller Rocket # RR1000								
S10104	Dual Spring - Turbo - PAC enhanced Alloy	23.10 mm 30mm	17.2mm 23.10mm	80 lbs @34 mm	195 lbs @24 mm	292 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11000 OR E11000LW OR Ferrea Aluminum Magnesium Retainer # E10018 and Ferrea Spring Seat Locator # SL1000 (Discard OEM Spring Seat Locator)								
ACURA RSX 2.0L - DOHC V-TEC 16 VALVE (K20) - 2001-2006								
S10099	Dual Spring-Special Alloy Endurance Spring	22.85 mm 30.45 mm	17.5 mm 22.85 mm	80 lbs @40 mm	190 lbs @30 mm	279 lbs	24 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11066 and Ferrea Spring Seat Locator # SL1052 (Discard OEM Spring Seat Locator).								
S10100	Dual Spring-Chrome Silicon Drag Racing	23.1 mm 31 mm	17.35 mm 23.1 mm	105 lbs @ 39 mm	225 lbs @ 29 mm	305 lbs	22 mm	15 mm
This Spring requires Ferrea Titanium Retainer # E11066 and Ferrea Spring Seat Locator # SL1053 (Discard OEM Spring Seat Locator)								
ACURA INTEGRA LS-GS 1.8L - DOHC 16 VALVE (B18A1-B1) - 1990-2000 HONDA CRV 2.0L - DOHC 16 VALVE (B20A-B20Z) - 1997-2000								
S10046	Dual Chrome Silicon	20.8 mm 28.0 mm	16.51 mm 20.8 mm	60 lbs @ 36.5 mm	160 lbs @ 26.5 mm	254 lbs	20 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11023. Use (FOR EXHAUST APPLICATION ONLY) Ferrea Spring Seat Locator #SL1017 FOR INTAKE APPLICATION use Factory supplied Seat Locator.								
S10050	Single Spring - Turbo Special Alloy (Intake - 12 pieces)	21.5 mm	15.1 mm	65 lbs @ 34.5 mm	145 lbs @ 24.5 mm	216 lbs	22 mm	11 mm
This Spring requires Ferrea Titanium Retainer #E11031and Ferrea Spring Seat Locator #SL1025 (Discard OEM Spring Seat Locator).								
S10056	Dual Spring - Turbo Special Alloy (Exhaust - 8 pieces)	22.75 mm 29.5 mm	17.1 mm 22.75 mm	80 lbs @ 32.5 mm	180 lbs @ 22.5 mm	254 lbs	20 mm	12 mm
This Spring requires Ferrea Titanium Retainer #E11032 and Ferrea Spring Seat Locator #SL1026 (Discard OEM Spring Seat Locator).								

SPORT COMPACT VALVE SPRINGS

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
AUDI 1.8T - DOHC 20 VALVE - 1996-2005								
S10055	Single Spring - Turbo Special Alloy (Intake - 12 pieces) This Spring requires Ferrea Titanium Retainer #E11031 and Ferrea Spring Seat Locator #SL1025 (Discard OEM Spring Seat Locator).	21.5 mm	15.1 mm	65 lbs @ 34.5 mm	145 lbs @ 24.5 mm	216 lbs	22.5 mm	11 mm
S10056	Dual Spring - Turbo Special Alloy (Exhaust - 8 pieces) This Spring requires Ferrea Titanium Retainer #E11032 and Ferrea Spring Seat Locator #SL1026 (Discard OEM Spring Seat Locator).	22.75 mm 29.5 mm	17.1 mm 22.75 mm	80 lbs @ 32.5 mm	180 lbs @ 22.5 mm	254 lbs	20 mm	12 mm
AUDI 2.7T - DOHC 30 VALVE (APB) - 1998-2004								
S10055	Single Spring - Turbo Special Alloy (Intake - 18 pieces) This Spring requires Ferrea Titanium Retainer #E11031 and Ferrea Spring Seat Locator #SL1025 (Discard OEM Spring Seat Locator).	21.5 mm	15.1 mm	65 lbs @ 34.5 mm	145 lbs @ 24.5 mm	216 lbs	22.5 mm	11 mm
S10056	Dual Spring - Turbo Special Alloy (Exhaust - 12 pieces) This Spring requires Ferrea Titanium Retainer #E11032 and Ferrea Spring Seat Locator #SL1026 (Discard OEM Spring Seat Locator).	22.75 mm 29.5 mm	17.1 mm 22.75 mm	80 lbs @ 32.5 mm	180 lbs @ 22.5 mm	254 lbs	20 mm	12 mm
AUDI RS6 4.2L - DOHC V8 40 VALVE (BCY) - 2002-2004								
S10055	Single Spring - Turbo Special Alloy (Intake - 24 pieces) This Spring requires Ferrea Titanium Retainer #E11031 and Ferrea Spring Seat Locator #SL1025 (Discard OEM Spring Seat Locator).	21.5 mm	15.1 mm	65 lbs @ 34.5 mm	145 lbs @ 24.5 mm	216 lbs	22.5 mm	11 mm
S10056	Dual Spring - Turbo Special Alloy (Exhaust - 16 pieces) This Spring requires Ferrea Titanium Retainer #E11032 and Ferrea Spring Seat Locator #SL1026 (Discard OEM Spring Seat Locator).	22.75 mm 29.5 mm	17.1 mm 22.75 mm	80 lbs @ 32.5 mm	180 lbs @ 22.5 mm	254 lbs	20.5 mm	12 mm
AUDI 80 QUATRO 2.2 L - DOHC 20 VALVE (7A) - 1989-1992 AUDI 200 QUATRO 2.2 L - DOHC 20 VALVE (3B) - 1991 AUDI COUPE QUATRO 2.2 L - DOHC 20 VALVE (7A) - 1990-1991								
S10115	Dual Spring Special Alloy Endurance Application This Spring requires Ferrea Titanium Retainer # E11084 and Ferrea Seat Locator # SL1073 (Discard OEM Spring Seat Locator).	22.75 mm 29.5 mm	17.1 mm 22.75 mm	85 lbs @ 33 mm	205 lbs @ 23 mm	304 lbs	17.5 mm	14 mm
AUDI RS2 2.2 L - DOHC 20 VALVE (ADU) - 1994-1995 AUDI S4 2.2 L - DOHC 20 VALVE (AAN) - 1992-1994 AUDI S6 2.2 L - DOHC 20 VALVE (AAN) - 1995								
S10115	Dual Spring Special Alloy Endurance Application This Spring requires Ferrea Titanium Retainer # E11084 and Ferrea Seat Locator # SL1073 (Discard OEM Spring Seat Locator).	22.75 mm 29.5 mm	17.1 mm 22.75 mm	85 lbs @ 33 mm	205 lbs @ 23 mm	304 lbs	17.5 mm	14 mm

SPORT COMPACT VALVE SPRINGS

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
AUDI V8 3.6 L - DOHC 32 VALVE (PT) - 1990-1991								
AUDI V8 4.2 L - DOHC 32 VALVE (ABH) - 1992-1994								
S10115	Dual Spring	22.75 mm	17.1 mm	85 lbs	205 lbs	304 lbs	17.5 mm	14 mm
	Special Alloy	29.5 mm	22.75 mm	@ 33 mm	@ 23 mm			
	Endurance Application							
	This Spring requires Ferrea Titanium Retainer # E11084 and Ferrea Seat Locator # SL1073 (Discard OEM Spring Seat Locator).							
BMW 3 SERIES (M50-M51-M52)								
S10049	Dual Spring - Turbo	22.75 mm	17.1 mm	80 lbs	180 lbs	254 lbs	21 mm	14 mm
	Special Alloy	29.5 mm	22.75 mm	@ 36 mm	@ 26 mm			
	This Spring requires Ferrea Titanium Retainer #E11025 or Ferrea Aluminum Magnesium Retainer #E10025 and Ferrea Spring Seat Locator #SL1021 (Discard OEM Spring Seat Locator).							
CHRYSLER/DODGE 3.5L - SOHC V6 24 VALVE - 1998-2004								
S10101	Dual Spring-Special Alloy	23.1 mm	17.35 mm	110 lbs	225 lbs	292 lbs	21 mm	15 mm
	Drag Racing	31 mm	23.1 mm	@ 36 mm	@ 26 mm			
	This Spring requires Ferrea Titanium Retainer #E11068 and Ferrea Spring Seat Locator # SL1054 and Factory supplied Spring Seat Locator.							
DODGE NEON 2.4 - SRT4 - DOHC 16 VALVE (A853) - 2003-2005								
S10107	Dual Spring - Turbo	20.8 mm	16.51 mm	90 lbs	200 lbs	279 lbs	23 mm	12 mm
	Stage 1 - Special Alloy	28.0 mm	20.8 mm	@37 mm	@27 mm			
	This Spring requires Ferrea Titanium Retainer #E11073 and BOTH, Ferrea Spring Seat Locator # SL1061 and Factory supplied Spring Seat Locator.							
S10108	Dual Spring - Turbo	20.8 mm	15.88 mm	105 lbs	235 lbs	330 lbs	23.5 mm	12 mm
	Stage 2 - Special Alloy	28.0 mm	20.8 mm	@37 mm	@27 mm			
	This Spring requires Ferrea Titanium Retainer #E11074 and BOTH, Ferrea Spring Seat Locator # SL1062 and Factory supplied Spring Seat Locator.							
FORD 2.3L - DOHC ZETEC 16 VALVE - 2002								
S10040	Single Spring	25.19 mm	18.23 mm	60 lbs	140 lbs	203 lbs	18.5 mm	12.5 mm
	Special Alloy			@ 31.5 mm	@ 21.5 mm			
	This Spring requires Ferrea Titanium Retainer # E11018 and BOTH, Ferrea Spring Seat Locator #SL1020 and Factory supplied Spring Seat Locator.							
S10041	Dual Spring - Turbo	18.23 mm	13.40 mm	75 lbs	195 lbs	305 lbs	18.75 mm	13.5 mm
	Special Alloy	24.70 mm	18.23 mm	@32.75mm	@22.75mm			
	This Spring requires Ferrea Titanium Retainer # E11018 and Ferrea Spring Seat Locator #SL1019 (Discard OEM Spring Seat Locator) NOTE: This Spring (#S10041) can be used only with Ferrea Aluminum Bronze Valve Guides (for 5.5 mm valve stem) #VG1015 (Intake) and #VG1016 (Exhaust) and Ferrea Valve Seals #VS1000 (Exhaust) and VS1001 (Intake)							
FORD ESCORT 2.0L - DOHC ZETEC 16 VALVE (ZX2) - 1999-2001								
FORD FOCUS 2.0L - DOHC ZETEC 16 VALVE (ZX3) - 2000-2001								
S10040	Single Spring	25.19 mm	18.23 mm	60 lbs	140 lbs	203 lbs	18.5 mm	12.5 mm
	Special Alloy			@ 31.5 mm	@ 21.5 mm			
	This Spring requires Ferrea Titanium Retainer #E11018 and BOTH, Ferrea Spring Seat Locator #SL1014 and Factory supplied Spring Seat Locator.							
S10041	Dual Spring - Turbo	18.23 mm	13.40 mm	75 lbs	195 lbs	305 lbs	18.75 mm	13.5 mm
	Special Alloy	24.70 mm	18.23 mm	@ 32.75 mm	@ 22.75 mm			
	This Spring requires Ferrea Titanium Retainer #E11018 and Ferrea Spring Seat Locator #SL1015 (Discard OEM Spring Seat Locator)							
	NOTE: This Spring (#S10041) can be used only with Ferrea Manganese Bronze Valve Guides (for 5.5 mm valve stem) #VG1006 (Intake) and #VG1007 (Exhaust) and Ferrea Valve Seals #VS1000 (Exhaust) and VS1001 (intake).							

SPORT COMPACT VALVE SPRINGS

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
GEO METRO/SUZUKI SWIFT 1.0 L - SOHC 6 VALVE (G10)								
S10047	Dual Spring - Turbo Special Alloy	18.23 mm 24.70 mm	13.40 mm 18.23 mm	70 lbs @ 35.5 mm	175 lbs @ 25.5 mm	266 lbs	18.75 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11024 and Ferrea Spring Seat Locator #SL1018 (Discard OEM Spring Seat Locator)								
GM 2.2 ECO TEC								
S10057	Dual Spring - Turbo Special Alloy	20.8 mm 28 mm	16.51 mm 20.8 mm	75 lbs @ 32.5 mm	175 lbs @ 22.5 mm	254 lbs	17.5 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11033 OR Ferrea Aluminum Magnesium Retainer #E10026 and Factory supplied Spring Seat Locator								
NOTE: For HIGH PRESSURE use BOTH Ferrea Spring Seat Locator #SL1028 AND Factory supplied Spring Seat Locator								
High Pressure spec.				110 lbs @ 31 mm	210 lbs @ 21 mm			12.5 mm
GM 5 CYLINDER - L5								
S10058	Dual Spring - Turbo Special Alloy	20.8 mm 28 mm	16.51 mm 20.8 mm	85 lbs @ 32 mm	185 lbs @ 22 mm	254 lbs	17.5 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11034 OR Ferrea Aluminum Magnesium Retainer #E10027 and BOTH, Ferrea Spring Seat Locator #1027 and Factory supplied Spring Seat Locator.								
HIGH PRESSURE SPRINGS (SPECIAL APPLICATIONS)								
S10063	Dual Spring Special Alloy	22.6 mm 30.86 mm	16.55 mm 22.6 mm	150 lbs @35.6 mm	450 lbs @19 mm	462 lbs	18 mm	16.5 mm
Maximum Retainer step 1.9 mm								
HONDA ACCORD 2.2L - SOHC 16 VALVE (F22B2-F22B6) - 1994-1995								
S10064	Dual Spring - Turbo Special Alloy- Hi Pressure	22.88 mm 30.10 mm	17.15 mm 22.88 mm	95 lbs @34 mm	215 lbs @24 mm	305 lbs	19 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11000 and Ferrea Spring Seat Locator # SL1000 (Discard OEM Spring Seat Locator)								
S10070	Dual Spring - Special Alloy Endurance Spring	22.85 mm 30.45 mm	17.5 mm 22.85 mm	80 lbs @33 mm	190 lbs @23 mm	279 lbs	18 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11000 and Ferrea Spring Seat Locator # SL1010 (Discard OEM Spring Seat Locator). Maximum Retainer Step: 3.6 mm								
S10104	Dual Spring - Turbo - PAC enhanced Alloy	23.10 mm 30mm	17.2mm 23.10mm	80 lbs @34 mm	195 lbs @24 mm	292 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11000 OR E11000LW OR Ferrea Aluminum Magnesium Retainer # E10018 and Ferrea Spring Seat Locator # SL1010 (Discard OEM Spring Seat Locator)								
HONDA CIVIC 1.6L - SOHC 16 VALVE (D16Z6-Y5-Y7-Y8) - 1992-2000								
S10029	Single Spring Special Alloy	22.9 mm	15.35 mm	60 lbs @ 50 mm	155 lbs @ 40 mm	241 lbs	32 mm	17 mm
This Spring requires Ferrea Titanium Retainer # E11010 OR Ferrea Aluminum Magnesium Retainer # E10019 and Factory supplied Spring Seat Locator (Use only this locator)								

SPORT COMPACT VALVE SPRINGS

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
HONDA DEL SOL 1.6L - DOHC V-TEC 16 VALVE (B16A1) - 1994-1997								
HONDA CIVIC SI 1.6L - DOHC V-TEC 16 VALVE (B16A3) - 1999-2000								
S10027	Dual Spring - Hi Pressure Special Alloy	22.8 mm 30.10 mm	17.15 mm 22.88 mm	100 lbs @ 34 mm	220 lbs @ 24 mm	305 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11000 OR Ferrea Aluminum Magnesium Retainer # E10018 and Ferrea Spring Seat Locator # SL1000 (Discard OEM Spring Seat Locator)								
S10028	Single Spring Special Alloy	30.10 mm	22.88 mm	55 lbs @ 34 mm	125 lbs @ 24 mm	178 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11000 OR Ferrea Aluminum Magnesium Retainer # E10018 and Factory supplied Spring Seat Locator OR Ferrea Spring Seat Locator # SL1004								
S10032	Dual Spring - Drag Racing Special Alloy	22.88 mm 30.10 mm	17.15 mm 22.88 mm	80 lbs @ 35 mm	195 lbs @ 25 mm	292 lbs	21 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11003 and Ferrea Spring Seat Locator # SL1000 (Discard OEM Spring Seat Locator)								
S10035	Dual Chrome Silicon	20.8 mm 28.0 mm	16.51 mm 20.8 mm	65 lbs @ 35 mm	185 lbs @ 25 mm	305 lbs	20 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11035 OR Ferrea Aluminum Magnesium Retainer # E10021 and Ferrea Spring Seat Locator # SL1005 (Discard OEM Spring Seat Locator)								
S10064	Dual Spring - Turbo Special Alloy- Hi Pressure	22.88 mm 30.10 mm	17.15 mm 22.88 mm	95 lbs @34 mm	215 lbs @24 mm	305 lbs	19 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11000 and Ferrea Spring Seat Locator # SL1000 (Discard OEM Spring Seat Locator)								
S10070	Dual Spring - Special Alloy Endurance Spring	22.85 mm 30.45 mm	17.5 mm 22.85 mm	80 lbs @33 mm	190 lbs @23 mm	279 lbs	18 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11000 and Ferrea Spring Seat Locator # SL1004 (Discard OEM Spring Seat Locator). Maximum Retainer Step: 3.6 mm								
S10086	Dual Spring Special Alloy Endurance Application	22.85mm 30.45mm	17.5mm 22.85mm	110 lb @ 34mm	260 lb @ 21mm	292 lbs	20 mm	13 mm
This Spring requires Ferrea Titanium Retainer # E11000 and Ferrea Spring Seat Locator # SL1044 (Discard OEM Spring Seat Locator) This Spring requires Ferrea Roller Rocket # RR1000								
S10104	Dual Spring - Turbo - PAC enhanced Alloy	23.10 mm 30mm	17.2mm 23.10mm	80 lbs @34 mm	195 lbs @24 mm	292 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11000 OR E11000LW OR Ferrea Aluminum Magnesium Retainer # E10018 and Ferrea Spring Seat Locator # SL1000 (Discard OEM Spring Seat Locator)								

SPORT COMPACT VALVE SPRINGS

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
HONDA PRELUDE 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000								
S10027	Dual Spring - Hi Pressure Special Alloy	22.88 mm 30.10 mm	17.15 mm 22.88 mm	100 lbs @ 34 mm	220 lbs @ 24 mm	305 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11000 OR Ferrea Aluminum Magnesium Retainer # E10018 and Ferrea Spring Seat Locator # SL1000 (Discard OEM Spring Seat Locator)								
S10028	Single Spring Special Alloy	30.10 mm	22.88 mm	55 lbs @ 34 mm	125 lbs @ 24 mm	178 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11000 OR Ferrea Aluminum Magnesium Retainer # E10018 and Ferrea Spring Seat Locator # SL1003 (Discard OEM Spring Seat Locator)								
S10032	Dual Spring - Drag Racing Special Alloy	22.88 mm 30.10 mm	17.15 mm 22.88 mm	80 lbs @ 35 mm	195 lbs @ 25 mm	292 lbs	21 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11003 and Ferrea Spring Seat Locator # SL1003 (Discard OEM Spring Seat Locator)								
S10035	Dual Chrome Silicon	20.8 mm 28.0 mm	16.51 mm 20.8 mm	65 lbs @ 35 mm	185 lbs @ 25 mm	305 lbs	20 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11035 OR Ferrea Aluminum Magnesium Retainer # E10021 and Ferrea Spring Seat Locator # SL1006 (Discard OEM Spring Seat Locator)								
S10064	Dual Spring - Turbo Special Alloy- Hi Pressure	22.88 mm 30.10 mm	17.15 mm 22.88 mm	95 lbs @34 mm	215 lbs @24 mm	305 lbs	19 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11000 and Ferrea Spring Seat Locator # SL1000 (Discard OEM Spring Seat Locator)								
S10070	Dual Spring - Special Alloy Endurance Spring	22.85 mm 30.45 mm	17.5 mm 22.85 mm	80 lbs @33 mm	190 lbs @23 mm	279 lbs	18 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11000 and BOTH, Ferrea Spring Seat Locator # SL1003 AND Factory supplied Spring Seat Locator.								
S10104	Dual Spring - Turbo - PAC enhanced Alloy	23.10 mm 30mm	17.2mm 23.10mm	80 lbs @34 mm	195 lbs @24 mm	292 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11000 OR E11000LW OR Ferrea Aluminum Magnesium Retainer # E10018 and Ferrea Spring Seat Locator # SL1003 (Discard OEM Spring Seat Locator)								
HONDA S 2000 - F20C - 2000-2003 HONDA S 2000 - F22C - 2004-2008								
S10074	Dual Spring - Special Alloy Turbo - Endurance Spring	22.85 mm 30.45 mm	17.5 mm 22.85 mm	80 lbs @33 mm	195 lbs @23 mm	292 lbs	18 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11045 and Ferrea Spring Seat Locator # SL1035 AND Factory supplied Spring Seat Locator.								
HYUNDAI TIBURON 4 CYL - DOHC 16 VALVE - 1996-2001								
S10094	Dual Spring - Turbo Special Alloy	20.8 mm 28.0 mm	15.88 mm 20.8 mm	85 lbs @32mm	200 lbs @22mm	291 lbs	17 mm	19 mm
This Spring requires Ferrea Titanium Retainer # E11062 and Ferrea Spring Seat Locator # SL1050 (Discard OEM Spring Seat Locator)								

SPORT COMPACT VALVE SPRINGS

Part N ^o	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
HYUNDAI V-6 TIBURON - 2001-2008								
S10081	Single Spring - Special Alloy Turbo - Endurance Spring	25.19 mm	18.3 mm	80 lbs @34 mm	150 lbs @24 mm	180 lbs	20.5 mm	12.5 mm
This Spring requires Ferrea Titanium Retainer # E11049 and Ferrea Spring Seat Locator # SL1039 (Discard OEM Spring Seat Locator)								
MAZDA 626 V6 2.5 L - DOHC KL - 1993-1998								
S10050	Dual Spring - Turbo Special Alloy	18.23 mm 24.70 mm	13.4 mm 18.23 mm	75 lbs @ 33 mm	195 lbs @ 23 mm	305 lbs	19 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11026 and Ferrea Spring Seat Locator # SL1022 (Discard OEM Spring Seat Locator)								
MAZDA MIATA 1.6L (B6) / 1.8L - DOHC 16 VALVE (BP056) - 1990-1997 (Hydraulic Buckets)								
Parts for these applications are no longer offered as stock items due to changes in valvetrain components over their production span. These items must be ordered as custom made parts.								
MAZDA MIATA 1.8L - DOHC 16 VALVE (BP056) - 1994-2002 (Hydraulic & Solid Buckets)								
Parts for these applications are no longer offered as stock items due to changes in valvetrain components over their production span. These items must be ordered as custom made parts.								
MINI COOPER S - 16 VALVE - 2002-2006								
S10111	Dual Spring - Turbo Special Alloy	18.20 mm 24.70 mm	13.4 mm 18.20 mm	95 lbs @42.5mm	210 lbs @32.5mm	292 lbs	30 mm	10.5 mm
This Spring requires Ferrea Titanium Retainer # E11080, Ferrea Spring Seat Locator # SL1067 AND Factory supplied Spring Seat Locator.								
MITSUBISHI 3000 GT 3.0L - DOHC 24 VALVE (6G72-TURBO 6G72T) - 1990-2001								
S10037	Dual Spring - Turbo - PAC enhanced Alloy	23.10 mm 30mm	17.2mm 23.10mm	80 lbs @34 mm	195 lbs @24 mm	292 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11053 OR Ferrea Aluminum Magnesium Retainer # E10023 and Ferrea Spring Seat Locator # SL1008 (Discard OEM Spring Seat Locator)								
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999								
S10031	Dual Chrome Silicon	23.1 mm 31 mm	17.35 mm 23.1 mm	90 lbs @ 38 mm	210 lbs @ 28 mm	305 lbs	21 mm	15 mm
This Spring requires Ferrea Titanium Retainer # E11005 and Ferrea Spring Seat Locator # SL1002 (Discard OEM Spring Seat Locator)								
S10036	Dual Spring - Turbo Special Alloy	22.75 mm 29.5 mm	17.1 mm 22.75 mm	80 lbs @ 34 mm	180 lbs @ 24 mm	254 lbs	20 mm	13.5 mm
This Spring requires Ferrea Titanium Retainer # E11005 OR Ferrea Aluminum Magnesium Retainer # E10024 and Ferrea Spring Seat Locator # SL1009 (Discard OEM Spring Seat Locator)								

SPORT COMPACT VALVE SPRINGS

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
MITSUBISHI LANCER EVOLUTION 2L - DOHC 16 VALVE (TURBO 4G63T) - 2003-2007								
S10084	Dual Spring - Turbo Special Alloy	22.85 mm 30.45 mm	17.5 mm 22.85 mm	95 lbs @30.6 mm	225 lbs @20.6 mm	327 lbs	18 mm	12.5 mm
This Spring requires Ferrea Titanium Retainer # E11052 and Ferrea Spring Seat Locator # SL1041.								
NISSAN 300 ZX 3.0L - DOHC 24 VALVE (VG30D-TURBO VG30DTT) - 1990-1996								
S10039	Dual Spring Chrome Silicon	20.8 mm 28.0 mm	15.3 mm 20.8 mm	80 lbs @ 35 mm	200 lbs @ 25 mm	305 lbs	22 mm	13 mm
This Spring requires Ferrea Titanium Retainer # E11017 and BOTH Ferrea Spring Seat Locator # SL1012 and Factory supplied Spring Seat Locator								
NISSAN 350 Z 3.5 L - V-6 - DOHC 24 VALVE (VQ35) - 2003-2008								
S10091	Single Spring Special Alloy - Turbo Endurance Application	25.19mm	18.3mm	75 lbs @34.8mm	145 lbs @24.8mm	178 lbs	20.5 mm	12.5 mm
This Spring to be used with Factory Valves with recess tip and Ferrea Titanium Retainer # E11060 AND Factory supplied Spring Seat Locator								
S10093	Single Spring Special Alloy - Turbo Endurance Application	25.19mm	18.3mm	85 lbs @34mm	155 lbs @24mm	178 lbs	20.5 mm	12.5 mm
This Spring to be used with Ferrea Lightweight Valves without recess tip and Ferrea Titanium Retainer # E11058 AND Ferrea Spring Seat Locator # SL1048								
S10103	Dual Spring - Special Alloy - Turbo Street/Drag	20.8 mm 28.0 mm	15.88mm 20.8 mm	80 lbs @34mm	200 lbs @24mm	305 lbs	19 mm	13 mm
This Spring to be used with Ferrea lightweight Valves without recess tip. This spring requires Ferrea Titanium Retainer #E11079 AND Ferrea Spring Seat Locator #SL1065. (Discard OEM Spring Seat Locator).								
NISSAN ALTIMA 2.4L - DOHC 16 VALVE (KA24DE) - 1995-1999								
NISSAN 240 SX 2.4L - DOHC 16 VALVE (KA24DE) - 1991-1998								
S10043	Dual Spring - Turbo PAC enhanced Alloy	23.10 mm 30 mm	17.2 mm 23.10 mm	80 lbs @36 mm	195 lbs @26 mm	254 lbs	22 mm	12.5 mm
This Spring requires Ferrea Titanium Retainer # E11021 and BOTH Ferrea Spring Seat Locator #SL1064 and Factory supplied Spring Seat Locator								
NISSAN PATROL 4.8L 6 CYL IN LINE - 24 VALVE - (TB48DE)								
S10114	Dual Spring - Turbo Special Alloy	20.8 mm 28.0 mm	16.51 mm 20.8 mm	85 lbs @36.85mm	190 lbs @26.85mm	266 lbs	22.85 mm	12 mm
This Spring requires Ferrea Titanium Retainer # E11083 and Ferrea Spring Seat Locator # SL1070 Discard OEM Factory supplied Spring Seat Locator.								
NISSAN SENTRA SE-R 2.0L - DOHC 16 VALVE (SR20DE-SR20DET) - 1991-1998								
S10038	Dual Spring - Turbo PAC enhanced Alloy	23.10 mm 30 mm	17.2 mm 23.10 mm	80 lbs @ 34 mm	195 lbs @ 24 mm	254 lbs	22 mm	12.5 mm
This Spring requires Ferrea Titanium Retainer # E11002 and Ferrea Spring Seat Locator # SL1011 (Discard OEM Spring Seat Locator)								
NISSAN SENTRA SE-R 2.5L - SPEC V - QR25 - 2002-2007								
S10083	Single Spring - Turbo Special Alloy	25.19 mm	18.4 mm	80 lbs @34 mm	150 lbs @24 mm	180 lbs	20.5 mm	12.5 mm
This Spring requires Ferrea Titanium Retainer # E11051 and Factory supplied Spring Seat Locator.								

SPORT COMPACT VALVE SPRINGS

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB25DET) - 1993-1997								
S10112	Dual Spring - Turbo Special Alloy	20.8 mm	16.51 mm					
		28.0 mm	20.8 mm					
	INTAKE ASSEMBLY			110 lbs @ 30.55 mm	215 lbs @ 20.55 mm	266 lbs	18 mm	10.5 mm
	EXHAUST ASSEMBLY			90 lbs @ 34.50 mm	190 lbs @ 24.50 mm	254 lbs	21.5 mm	10.5 mm
<p>This Spring requires Ferrea Titanium Retainer # E11082 and Ferrea Spring Seat Locator #SL 1068 (EXH Side) and Ferrea Spring Seat Locator #SL1069 (INT Side). (Discard OEM Spring Seat Locator)</p> <p>WARNING: DUE TO VALVETRAIN ASSEMBLY INSTALLED HIEGHTS, MAXIMUM VALVE NET LIFT MUST NOT EXCEED 10.5 MM BECAUSE OF VALVE SEAL TO SPRING RETAINER CLEARANCES.</p>								
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE (NEO RB25DET) - 1998-2002								
S10078	Dual Spring - Turbo Special Alloy	20.8 mm	16.51 mm	95 lbs	195 lbs	254 lbs	17.5 mm	12 mm
		28.0 mm	20.8 mm	@30 mm	@20 mm			
<p>This Spring requires Ferrea Titanium Retainer # E11048 and BOTH, Ferrea Spring Seat Locator # SL1037 AND Factory supplied Spring Seat Locator. Maximum Retainer Step 2 mm</p>								
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB26) - 1989-2002								
S10090	Dual Spring - Turbo Special Alloy	20.8 mm	16.51 mm	110 lbs	210 lbs	254 lbs	26.5 mm	12 mm
		28.0 mm	20.8 mm	@39mm	@29mm			
<p>This Spring requires Ferrea Titanium Retainer # E11057 and Ferrea Spring Seat Locator # SL1047 (Discard OEM Spring Seat Locator)</p>								
SATURN ILO 1.9L - 1991-1998								
S10059	Dual Spring - Turbo Special Alloy	20.8 mm	15.88 mm	87lbs	195 lbs	285 lbs	21.5 mm	12.5 mm
		28 mm	20.8 mm	@ 36 mm	@ 26 mm			
<p>This Spring requires Ferrea Titanium Retainer # E11036 and Factory supplied Spring Seat Locator. TO BE USED WITH 7 MM VALVE STEM ONLY.</p>								
S10060	Dual Spring - Turbo PAC enhanced Alloy	23.10 mm	17.2 mm	95 lbs	220 lbs	317 lbs	20 mm	13.5 mm
		30 mm	23.10 mm	@ 34 mm	@ 24 mm			
<p>This Spring requires Ferrea Titan Retainer # E11038 OR Ferrea Alum-Magne Retainer #E10028 and Ferrea Spring Seat Locator # SL1029 (Discard OEM Seat Locator). TO BE USED WITH 5.5 MM VALVE STEM ONLY.</p>								
SCION tC 2.4L - DOHC 16 VALVE (2AZFE) - 2005								
S10110	Single Spring - Turbo Special Alloy Endurance Spring	25.19 mm	18.3 mm	80 lbs	150 lbs	180 lbs	20.5 mm	12.5 mm
				@34.2 mm	@24.2 mm			
<p>This Spring requires Ferrea Titanium Retainer # E11075 and Ferrea Spring Seat Locator # SL1063 (Discard OEM Spring Seat Locator)</p>								
SUBARU WRX - EJ20 - 2001-2008								
S10071	Dual Spring - Special Alloy Turbo - Drag Racing	20.8 mm	15.88 mm	75 lbs	200 lbs	317 lbs	21.5 mm	15 mm
		28 mm	20.8 mm	@39.4 mm	@29.4 mm			
<p>This Spring requires Ferrea Titanium Retainer # E11043 and Ferrea Spring Seat Locator # SL1034 (Discard OEM Spring Seat Locator)</p>								
S10072	Dual Spring - Special Alloy Turbo - Endurance Spring	20.8 mm	16.51 mm	70 lbs	165 lbs	241 lbs	20 mm	15 mm
		28 mm	20.8 mm	@39.4 mm	@29.4 mm			
<p>This Spring requires Ferrea Titanium Retainer # E11044 and Ferrea Spring Seat Locator # SL1034 (Discard OEM Spring Seat Locator)</p>								

SPORT COMPACT VALVE SPRINGS

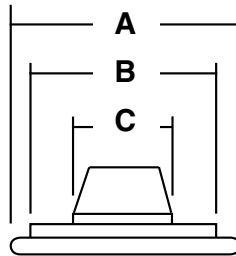
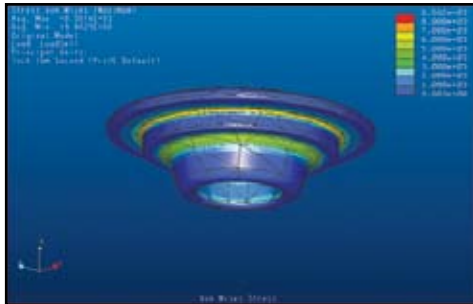
Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
SUBARU WAX - STI - 2004-2008								
S10097	Dual Spring-Special Alloy Turbo - Drag Racing	20.8 mm 28 mm	15.88 mm 20.8 mm	90 lbs @36 mm	215 lbs @26 mm	317 lbs	21.5 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11064 and Ferrea Spring Seat Locator # SL1051 (Discard OEM Spring Seat Locator)								
S10098	Dual Spring-Special Alloy Turbo-Endurance Racing	20.8 mm 28 mm	16.51 mm 20.8 mm	80 lbs @36 mm	180 lbs @26 mm	254 lbs	21.0 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11065 and Ferrea Spring Seat Locator # SL1051 (Discard OEM Spring Seat Locator)								
SUBARU 2.5 L - EJ25D - 1996-1998								
S10079	Dual Spring - Special Alloy Turbo - Drag Racing	20.8 mm 28 mm	16.51 mm 20.8 mm	90 lbs @33 mm	190 lbs @23 mm	254 lbs	21.5 mm	12.5 mm
This Spring requires Ferrea Titanium Retainer # E11044 and Ferrea Spring Seat Locator # SL1038 (Discard OEM Spring Seat Locator)								
TOYOTA 4AG 1.6 L - DOHC 16 VALVE (ATLANTIC) - 1983-1988								
S10080	Single Spring - Special Alloy	23.5 mm	16.46 mm	40 lbs @35 mm	120 lbs @25 mm	203 lbs	22 mm	12 mm
This Spring requires Ferrea Titanium Retainer # E11046 and Factory supplied Spring Seat Locator.								
TOYOTA MR2 2.0L - DOHC 16 VALVE (TURBO 3SGTE) - 1990-1995								
S10034	Dual Chrome Silicon	20.8 mm 28.0 mm	16.51 mm 20.8 mm	65 lbs @ 35 mm	185 lbs @ 25 mm	305 lbs	20 mm	14 mm
This Spring requires Ferrea Aluminum Magnesium Retainer # E10022 and BOTH, Ferrea Spring Seat Locator # SL1007 and Factory supplied Spring Seat Locator.								
TOYOTA 2.0 L - 3SGE ENGINE -								
S10073	Dual Spring - Turbo Special Alloy	20.8 mm 28.0 mm	15.88 mm 20.8 mm	87 lbs @34 mm	195 lbs @24 mm	285 lbs	21.5 mm	12.5 mm
This Spring requires Ferrea Titanium Retainer # E11042 and Ferrea Spring Seat Locator # SL1032 (Discard OEM Spring Seat Locator)								
TOYOTA SUPRA 3.0L I/L 6 CYL - DOHC 24 VALVE (2JZGE-2JZGTE) - 1994-1998								
S10033	Dual Chrome Silicon	20.8 mm 28.0 mm	16.51 mm 20.8 mm	65lbs @ 35 mm	185 lbs @ 25 mm	305 lbs	20 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11011 and BOTH, Ferrea Spring Seat Locator # SL1001 and Factory supplied Spring Seat Locator								
S10045	Dual Spring - Turbo Special Alloy	20.8 mm 28.0 mm	15.88 mm 20.8 mm	87 lbs @ 34 mm	195 lbs @ 24 mm	285 lbs	21.5 mm	12.5 mm
This Spring requires Ferrea Titanium Retainer # E11037 and BOTH, Ferrea Spring Seat Locator # SL1001 and Factory supplied Spring Seat Locator								
NOTE: For HIGH PRESSURE use BOTH Ferrea Spring Seat Locator # SL1001 AND #SL1060. (Discard OEM Spring Seat Locator)								
HIGH PRESSURE VALUES SPEC				100 lbs @34mm	225 lbs @24 mm		22 mm	10.5 mm
S10109	Dual Spring - Turbo High Pressure PAC Alloy	20.8 mm 28.0 mm	15.88 mm 20.8 mm	115 lbs @ 34 mm	245 lbs @ 24 mm	330 lbs	21.8 mm	11 mm
This Spring requires Ferrea Titanium Retainer # E11037 and TWO Ferrea Spring Seat Locators: #SL1001 and #SL1060 (Discard OEM Spring Seat Locator)								

SPORT COMPACT VALVE SPRINGS

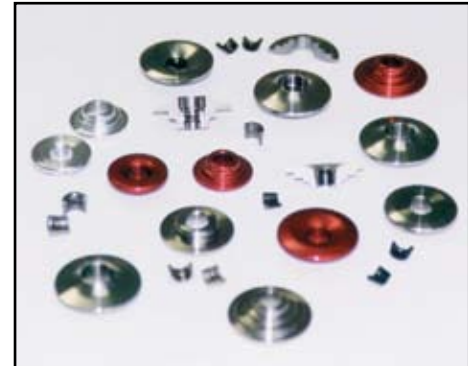
Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
TOYOTA SUPRA 3.0L - DOHC 24 VALVE (7MGE-TURBO 7MGTE) - 1986-1992								
S10044	Dual Spring - Turbo Special Alloy	18.23 mm 25.19 mm	13.4 mm 18.23 mm	67 lbs @ 34 mm	177 lbs @ 24 mm	280 lbs	19 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11022 and Ferrea Spring Seat Locator # SL1016 (Discard OEM Spring Seat Locator)								
VW 1.8T - DOHC 20 VALVE - 1998-2005								
S10055	Single Spring - Turbo Special Alloy (Intake - 12 pieces)	21.5 mm	15.1 mm	65 lbs @34.5 mm	145 lbs @24.5 mm	216 lbs	22.5 mm	11 mm
This Spring requires Ferrea Titanium Retainer # E11031 and Ferrea Spring Seat Locator # SL1025. (Discard OEM Spring Seat Locator)								
S10056	Dual Spring - Turbo Special Alloy (Exhaust - 8 pieces)	22.75 mm 29.5 mm	17.1 mm 22.75 mm	80 lbs @32.5 mm	180 lbs @22.5 mm	254 lbs	20 mm	12 mm
This Spring requires Ferrea Titanium Retainer # E11032 and Ferrea Spring Seat Locator # SL1026. (Discard OEM Spring Seat Locator)								
VW GOLF / JETTA 1.8 L - DOHC 16 VALVE (PL) - 1987-1989 VW SCIROCCO 1.8 L - DOHC 16 VALVE (PL) - 1986-1988								
S10115	Dual Spring Special Alloy Endurance Application	22.75 mm 29.5 mm	17.1 mm 22.75 mm	85 lbs @33 mm	205 lbs @23 mm	304 lbs	17.5 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11084 and Ferrea Seat Locator #SL1073 (Discard OEM Spring Seat Locator)								
VW GOLF / JETTA 1.8 L - DOHC 16 VALVE (9A) - 1990-1992 VW PASSAT 2.0 L - DOHC 16 VALVE (9A) - 1990-1994								
S10115	Dual Spring Special Alloy Endurance Application	22.75 mm 29.5 mm	17.1 mm 22.75 mm	85 lbs @33 mm	205 lbs @23 mm	304 lbs	17.5 mm	14 mm
This Spring requires Ferrea Titanium Retainer # E11084 and Ferrea Seat Locator #SL1073 (Discard OEM Spring Seat Locator)								
VW VR6 2.8L - DOHC 12 VALVE - 1992-2002								
S10062	Dual Spring - Turbo Special Alloy	22.75 mm 29.5 mm	17.1 mm 22.75 mm	95 lbs @32 mm	195 lbs @22 mm	254 lbs	19 mm	13 mm
This Spring requires Ferrea Titanium Retainer # E11039								
VW VR6 2.8L - DOHC 24 VALVE (BDF) - 2002-2004								
S10087	Single Spring Special Alloy	23.5 mm	15.7 mm	85 lbs @39 mm	190 lbs @29 mm	265 lbs	26 mm	12 mm
This Spring requires Ferrea Titanium Retainer # E11063.								

SPORT COMPACT TITANIUM RETAINERS

Ferrea's new **Pro Series Titanium and Aluminum Magnesium Retainers** are precision CNC machined from aerospace quality alloys, fully heat-treated and finished to exact tolerances.



Retainers Typical



Ferrea extensive R&D design with Titanium Retainers, using Finite Element Analysis

Part N°	Val.Stem Size	Diam.(A)	Out Step Diam.(B)	Inn Step Diam.(C)	References
ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE (B17A1) - 1992-1993					
ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE (B18C1-C3) - 1994-2000					
E11035	5.5 mm	27.95 mm	20.8 mm	16.1 mm	Dble Spring-7 deg Pro CNC Ferrea Racing Springs #S10035
E12020	5.5 mm	21.6 mm	–	14.73 mm	Behive Spring - Pro CNC Retainer Ferrea Racing Springs #S2014. Ferrea Valve Lock #K10034
ACURA INTEGRA LS-GS 1.8L - DOHC V-TEC 16 VALVE (B18A1-BI) - 1990-2000					
HONDA CRV 2.0L - DOHC V-TEC 16 VALVE (B20A-B20Z) - 1997-2000					
E11023	6.5 mm	27.95 mm	20.8 mm	15.7 mm	Dble Spring-7 deg Pro CNC Ferrea Racing Springs #S10046
ACURA RSX 2.0L - DOHC V-TEC 16 VALVE (K20) - 2002-2006					
E11066	5.5 mm	27.10 mm	–	17.35 mm	Dble Spring-7 deg Pro CNC Ferrea Racing Springs #S10099 or #S10100 and Ferrea Valve Lock #K10034
E12027	5.5 mm	22.73 mm	–	14.60 mm	Behive Spring - Pro CNC Retainer Ferrea Racing Springs #S2018. Ferrea Valve Lock #K10034
AUDI 1.8T - DOHC 20 VALVE - 1996-2005					
E11031	6 mm	21 mm	–	15.15 mm	INT (12 pieces) Single Spring-7 deg Pro CNC Ferrea Racing Springs #S10055
E11032	6 mm	28.20 mm	22.85 mm	17.15 mm	EXH (8 pieces) Double Spring-7 deg Pro CNC Ferrea Racing Springs #S10056
AUDI 2.7T - DOHC 30 VALVE (APB) - 1998-2004					
E11031	6 mm	21 mm	–	15.15 mm	INT (18 pieces) Single Spring-7 deg Pro CNC Ferrea Racing Springs #S10055
E11032	6 mm	28.20 mm	22.85 mm	17.15 mm	EXH (12 pieces) Double Spring-7 deg Pro CNC Ferrea Racing Springs #S10056
AUDI RS6 4.2L - DOHC V8 40 VALVE (BCY) - 2002-2004					
E11031	6 mm	21 mm	–	15.15 mm	INT (24 pieces) Single Spring-7 deg Pro CNC Ferrea Racing Springs #S10055
E11032	6 mm	28.20 mm	22.85 mm	17.15 mm	EXH (16 pieces) Double Spring-7 deg Pro CNC Ferrea Racing Springs #S10056

SPORT COMPACT TITANIUM RETAINERS

Part N°	Val.Stem Size	Diam.(A)	Out Step Diam.(B)	Inn Step Diam.(C)	References
AUDI 80 QUATRO 2.2 L - DOHC 20 VALVE (7A) - 1989-1992					
AUDI 200 QUATRO 2.2 L - DOHC 20 VALVE (3B) - 1991					
AUDI COUPE QUATRO 2.2 L - DOHC 20 VALVE (7A) - 1990-1991					
E11084	7 mm	28 mm	-	17.17 mm	Dble Spring-7 deg Pro CNC. 20 pieces Ferrea Racing Springs #S10115 and Ferrea Valve Lock # K10082
AUDI RS2 2.2 L - DOHC 20 VALVE (ADU) - 1994-1995					
AUDI S4 2.2 L - DOHC 20 VALVE (AAN) - 1992-1994					
AUDI S6 2.2 L - DOHC 20 VALVE (AAN) - 1995					
E11084	7 mm	28 mm	-	17.17 mm	Dble Spring-7 deg Pro CNC. 20 pieces Ferrea Racing Springs #S10115 and Ferrea Valve Lock # K10082
AUDI V8 3.6 L - DOHC 32 VALVE (PT) - 1990-1991					
AUDI V8 4.2 L - DOHC 32 VALVE (PT) - 1992-1994					
E11084	7 mm	28 mm	-	17.17 mm	Dble Spring-7 deg Pro CNC. 20 pieces Ferrea Racing Springs #S10115 and Ferrea Valve Lock # K10082
BMW 3 SERIES (M50-M51-M52)					
E11025	6 mm	28.20 mm	-	17.17 mm	Double Spring-7 deg Pro CNC Ferrea Racing Springs #S10049
CHRYSLER/DODGE 3.5L - SOHC V6 24 VALVE - 1998-2004					
E11068	7 mm	28 mm	-	17.17 mm	Double Spring-7 deg Pro CNC Ferrea Racing Springs #S10101 and Ferrea Valve Lock #K10076.
DODGE NEON 2.4 - SRT4 - DOHC 16 VALVE (A853) - 2003-2005					
E11073	6 mm	25.4 mm	-	16.51 mm	Dble Spring-6 deg Pro CNC Ferrea Racing Springs #S10107 and Ferrea Valve Lock #K10079
E11074	6 mm	25.4 mm	-	15.7 mm	Dble Spring-6 deg Pro CNC Ferrea Racing Springs #S10108 and Ferrea Valve Lock #K10079
FORD ESCORT 2.0L - DOHC ZETEC 16 VALVE (ZX2) - 1999-2001					
FORD FOCUS 2.0L - DOHC ZETEC 16 VALVE (ZX3) - 2000-2001					
E11018	5.5-6.01 mm	24 mm	18.23 mm	10.79 mm	Single & Dble Spring-7 deg Pro CNC Ferrea Springs #S10040 and #S10041
NOTE This Retainer (#E11018) can be used with either valve lock (5.5 and 6.01)					
FORD 2.3I - DOHC ZETEC 16 VALVE - 2002					
E11018	5.5 mm	24 mm	18.23 mm	10.79 mm	Single & Dble Spring-7 deg Pro CNC Ferrea Springs #S10040 and #S10041
GEO METRO/SUZUKI SWIFT 1.0 L - SOHC 6 VALVE (G10)					
E11024	5.5 mm	24.23 mm	18.20 mm	12.92 mm	Dble Spring-7 deg Pro CNC Ferrea Racing Springs #S10047
GM 2.2 ECO TEC					
E11033	6 mm	27.95 mm	20.8 mm	16.1 mm	Dble Spring-7 deg Pro CNC Ferrea Racing Springs #S10057
GM 5 CYLINDER - L5					
E11034	6 mm	27.95 mm	20.8 mm	16.1 mm	Dble Spring-7 deg Pro CNC Ferrea Racing Spring #S10058

SPORT COMPACT TITANIUM RETAINERS

Part N°	Val.Stem Size	Diam.(A)	Out Step Diam.(B)	Inn Step Diam.(C)	References
HONDA CIVIC 1.6L - SOHC 16 VALVE (D16Z6-Y5-Y7-Y8) - 1992-2000					
E11010	5.5 mm	21.60 mm	-	15.35 mm	Single Spring-7 deg Pro CNC Retainer. Ferrea Racing Spring # S10029
HONDA RETAINERS "7 DEG"					
E11000	5.5 mm	28.20 mm	22.85 mm	17.15 mm	Dble Spring-7deg Pro CNC Retainer. Ferrea Racing Spring # S10070 OR #S10104
E11000LW	5.5 mm	28.20 mm	22.85 mm	17.15 mm	Dble Spring-7deg Pro CNC Retainer. 7 grs Ferrea Racing Spring # S10070 OR #S10104
E11001	5.5 mm	28.10 mm	22.20 mm	15.77 mm	Dble Spring-7deg Pro CNC Retainer. Honda Stock Spring and Ferrea Racing Spring # S10032
E11003	5.5 mm	28.20 mm	22.55 mm	16.75 mm	Dble Spring-7deg Pro CNC Retainer. Ferrea Drag Racing Spring # S10032
E11003LW	5.5 mm	28.20 mm	22.55 mm	16.75 mm	Dble Spring. 7deg Pro CNC Retainer. 7 grs. Ferrea Drag Racing Spring # S10032
E12020	5.5 mm	21.6 mm	-	14.73 mm	Beehive Spring. Pro CNC Retainer Ferrea Drag Racing Spring # S2014. Ferrea Valve Lock # K10034
HONDA S 2000 - F20C - 2000-2003 HONDA S 2000 - F22C - 2004-2008					
E11045	5.5 mm	28.20 mm	22.85 mm	17.15 mm	Dble Spring-7 deg Pro CNC- Ferrea Racing Springs #S10074 and Ferrea Valve Lock #K10034
HYUNDAI TIBURON 4 CYL - DOHC 16 VALVE - 1996-2001					
E11062	6 mm	25.4 mm	-	15.70 mm	Dble Spring-6 deg Pro CNC- Ferrea Racing Springs #S10094
HYUNDAI V-6 TIBURON - 2001-2008					
E11049	6 mm	24 mm	-	18.35 mm	Single Spring-6 deg Pro CNC- Ferrea Racing Springs #S10081 and Ferrea Valve Lock #K10064
MAZDA 626 V6 2.5L - DOHC KL - 1993-1998					
E11026	6 mm	24.25 mm	18.23 mm	12.82 mm	Dble Spring-6 deg Pro CNC- Ferrea Racing Springs #S10050 and Ferrea Valve Lock # K10068
MAZDA MIATA 1.6L (B6) / 1.8L - DOHC 16 VALVE (BP056) - 1990-1997 (Hydraulic Buckets)					
Parts for these applications are no longer offered as stock items due to changes in valvetrain components over their production span. These items must be ordered as custom made parts.					
MAZDA MIATA 1.6L - DOHC 16 VALVE (B6) - 1990-1993 (Hydraulic Buckets) MAZDA MIATA 1.8L - DOHC 16 VALVE (BP056) - 1994-2002 (Hydraulic & Solid Buckets)					
Parts for these applications are no longer offered as stock items due to changes in valvetrain components over their production span. These items must be ordered as custom made parts.					
MINI COOPER S - 16 VALVE - 2002-2006					
E11080	6 mm	23.37 mm	-	13.41 mm	Dble Spring-6 deg Pro CNC- Ferrea Racing Springs #S10111 and Ferrea Valve Lock # K10070

SPORT COMPACT TITANIUM RETAINERS

Part N°	Val.Stem Size	Diam.(A)	Out Step Diam.(B)	Inn Step Diam.(C)	References
MITSUBISHI 3000 GT 3.0L - DOHC 24 VALVE (6G72 - TURBO 6G72T) - 1990-2001					
E11053	6.5 mm	28.57 mm	-	17.35 mm	Dble Spring-6 deg Pro CNC- Ferrea Racing Springs #S10037 and Ferrea Valve Lock # K10035
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999					
E11005	6.5 mm	28.57 mm	-	17.35 mm	Dble Spring-6 deg Pro CNC- Ferrea Racing Springs #S10031 & #S10036 and Ferrea Valve Lock # K10035
E12021	6.5 mm	22.73 mm	-	14.60 mm	Behive Spring - Pro CNC Retainer Ferrea Racing Spring # S2015. Ferrea Valve Lock #K10035
MITSUBISHI LANCER EVOLUTION 2L - DOHC 16 VALVE (TURBO 4G63T) - 2003-2007					
E11052	6.5 mm	28.57 mm	-	17.35 mm	Dble Spring-6 deg Pro CNC- Ferrea Racing Springs #S10084 and Ferrea Valve Lock # K10035
NISSAN 300 ZX 3.0L - DOHC 24 VALVE (VG30D-TURBO VG30DTT) - 1990-1996					
E11017	6.0 mm	25.4 mm	-	15.7 mm	Dble Spring-6 deg Pro CNC Retainer Ferrea Racing Spring # S10039
NISSAN 350 Z 3.5 L - V-6 - DOHC 24 VALVE (VQ35) - 2003-2008					
E11058	6 mm	24 mm	-	18.16 mm	Single Spring-6 deg Pro CNC- Ferrea Racing Springs #S10093 and Ferrea Valve Lock # K10069
E11060	5.5 mm	24 mm	18.3 mm	10.79 mm	Single Spring-7 deg Pro CNC- Ferrea Racing Springs #S10091 and Ferrea Valve Lock # K10071
E11079	6 mm	25.4 mm	-	15.75 mm	Dble Spring-6 deg Pro CNC Ferrea Racing Springs #S10103 and Ferrea Valve Lock # K10069
NISSAN ALTIMA 2.4L - DOHC 16 VALVE (KA24DE) - 1995-1999					
NISSAN 240 SX 2.4L - DOHC 16 VALVE (KA24DE) - 1991-1998					
E11021	7 mm	28.20 mm	22.85 mm	17.15 mm	Dble Spring-7 deg Pro CNC- (16 pieces). Ferrea Racing Springs #S10043 and Ferrea Valve Lock # K10062
NISSAN PATROL 4.8L 6 CYL IN LINE - 24 VALVE - (TB48DE)					
E11083	6 mm	25.4 mm	-	16.51 mm	Dble Spring-6 deg Pro CNC- (24 pieces) Ferrea Racing Springs #S10114 and Ferrea Valve Lock # K10081
NISSAN SENTRA SE-R 2.5L - SPEC V - QR25 - 2002-2007					
E11051	6 mm	24.15 mm	18.4 mm	13.59 mm	Single Spring-7 deg Pro CNC- (16 pieces) Ferrea Racing Springs #S10083 and Ferrea Valve Lock # K10066
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB25DET) - 1993-1997					
E11082	6 mm	25.4 mm	-	16.51 mm	Dble Spring-6 deg Pro CNC- (24 pieces) Ferrea Racing Springs #S10112 and Ferrea Valve Lock # K10063

SPORT COMPACT TITANIUM RETAINERS

Part N°	Val.Stem Size	Diam.(A)	Out Step Diam.(B)	Inn Step Diam.(C)	References
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB26) - 1989-2002					
E11057	6 mm	26.67 mm	–	21 mm	Double Spring-6 deg Pro CNC-Ferrea Racing Springs #S10090 and Ferrea Valve Lock # K10072
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE (NEO RB25DET) - 1998-2002					
E11048	6 mm	25.4 mm	–	16.51 mm	Double Spring-6 deg Pro CNC- (24 pieces) Ferrea Racing Springs #S10078 and Ferrea Valve Lock # K10063
NISSAN RETAINERS "6 DEG"					
E11002	6.0 mm	29.0 mm	–	17.15 mm	Dble Spring-6 deg Pro CNC Retainer. Nissan SR20 SE-R. Ferrea Racing Spring # S10038
SATURN ILO 1.9L - 1991-1998					
E11036	7 mm	25.4 mm	–	16.50 mm	Dble Spring-7 deg Pro CNC Retainer. Ferrea Racing Spring # S10059 and Ferrea Valve Lock #K10060
E11038	5.5 mm	28.2 mm	22.85 mm	17.15 mm	Dble Spring-7 deg Pro CNC Retainer. Ferrea Racing Spring # S10060 and Ferrea Valve Lock #10056
SCION TC 2.4L - DOHC 16 VALVE (2AZFE) - 2005					
E11075	5.5 mm	24.1 mm	–	18.65 mm	Single spring-7 deg Pro CNC-Ferrea Racing Springs #S10110 and Ferrea Valve Lock #K10080
SUBARU WRX - EJ20 - 2001-2008					
E11043	6 mm	25.40 mm	–	15.70 mm	Dble Spring-6 deg Pro CNC-Ferrea Racing Springs #S10071 and Ferrea Valve Lock # K10061
E11044	6 mm	25.40 mm	–	16.51 mm	Dble Spring-6 deg Pro CNC-Ferrea Racing Springs #S10072 and Ferrea Valve Lock # K10061
SUBARU WRX - STI - 2004-2008					
E11064	6 mm	25.40 mm	–	15.70 mm	Dble Spring-6 deg Pro CNC-Ferrea Racing Springs #S10097 and Ferrea Valve Lock # K10074
E11065	6 mm	25.40 mm	–	16.51 mm	Dble Spring-6 deg Pro CNC-Ferrea Racing Springs #S10098 and Ferrea Valve Lock # K10074



Scion TC pro FWD car of World Racing driven by Chris Rado has made his mark in the sport Compact Drag Race market with only Ferrea Racing Components.

SPORT COMPACT TITANIUM RETAINERS

Part N°	Val.Stem Size	Diam.(A)	Out Step Diam.(B)	Inn Step Diam.(C)	References
SUBARU 2.5 L - EJ25D - 1996-1998					
E11044	6 mm	25.4 mm	–	16.51 mm	Dble Spring-6 deg Pro CNC- (16 pieces) Ferrea Racing Springs #S10079 and Ferrea Valve Lock # K10061
TOYOTA 4AG 1.6 L DOHC 16 VALVE (ATLANTIC) - 1983-1988					
E11046	6 mm	23 mm	–	16.38 mm	Single Spring-6 deg Pro CNC- Ferrea Racing Springs # S10080.
TOYOTA 2.0 L - 3SGE ENGINE -					
E11042	5.5 mm	25.85 mm	–	15.88 mm	Dble Spring-7 deg Pro CNC- Ferrea Racing Springs #S10073
TOYOTA RETAINERS "6 DEG"					
E11011	6.0 mm	25.4 mm	–	16.51 mm	Dble Spring-6 deg Pro CNC Retainer. Ferrea Racing Spring # S10033
E11037	6.0 mm	25.4 mm	–	15.70 mm	Dble Spring-6 deg Pro CNC Retainer. Ferrea Racing Spring # S10045
TOYOTA SUPRA 3.0L - DOHC 24 VALVE (7MGE-TURBO 7MGE) - 1986-1992					
E11022	6 mm	24.25 mm	18.23 mm	12.82 mm	Dble Spring-6 deg Pro CNC Ferrea Racing Spring #S10044
VW 1.8T - DOHC 20 VALVE - 1998-2005					
E11031	6 mm	21 mm	–	15.15 mm	INT (12 pieces)Single Spring-7 deg Pro CNC Ferrea Racing Spring # S10055
E11032	6 mm	28.20 mm	22.85 mm	17.15 mm	EXH (8 pieces)Dble Spring-6 deg Pro CNC Ferrea Racing Spring # S10056
VW GOLF / JETTA 1.8 L - DOHC 16 VALVE (PL) - 1987-1989 VW SCIROCCO 1.8 L - DOHC 16 VALVE (PL) - 1986-1988					
E11084	7 mm	28 mm	–	17.17 mm	Dble Spring-7 deg Pro CNC- 16 pieces Ferrea Racing Springs #S10115 and Ferrea Valve Lock #K10082
VW GOLF / JETTA 2.0 L - DOHC 16 VALVE (9A) - 1990-1992 VW PASSAT 2.0 L - DOHC 16 VALVE (9A) - 1990-1994					
E11084	7 mm	28 mm	–	17.17 mm	Dble Spring-7 deg Pro CNC- 16 pieces Ferrea Racing Springs #S10115 and Ferrea Valve Lock #K10082
VW VR6 2.8L - DOHC 12 VALVE - 1992-2002					
E11039	7 mm	28 mm	–	17.17 mm	Dble Spring-7 deg Pro CNC- Ferrea Racing Springs #S10062 and Ferrea Valve Lock #K10059
VW VR6 2.8L - DOHC 24 VALVE (BDF) - 2002-2004					
E11063	6 mm	20.57 mm	–	15.5 mm	Single Spring-7 deg Pro CNC- Ferrea Racing Springs #S10087 This retainer has to be used with OEM valve lock

SPORT COMPACT ALUMINUM MAGNESIUM RETAINERS

The Pro-Series **Ferrea Aluminum Magnesium Retainers** are precision CNC machined from aerospace quality alloys, fully heat treated and finished to exact tolerances. These retainers are engineered for optimum strength and weight savings, which is crucial to valve-train stability at High RPM.



Part N°	Val.Stem Size	Diam.(A)	Out Step Diam.(B)	Inn Step Diam.(C)	References
GM 2.2 ECO TEC					
E10026	6 mm	27.95 mm	20.80 mm	16.1 mm	Dble Spring-7 deg Pro CNC Retainer - Ferrea Racing Spring # S10057
GM 5 CYLINDER - L5					
E10027	6 mm	27.95 mm	20.80 mm	16.1 mm	Dble Spring-7 deg Pro CNC Retainer - Ferrea Racing Spring # S10058
HONDA CIVIC 1.6L - SOHC 16 VALVE (D16Z6-Y5-Y7-Y8) - 1992-2000					
E10019	5.5 mm	21.60 mm	-	15.35 mm	Single Spring-7 deg Pro CNC Retainer - Ferrea Racing Spring # S10029
HONDA RETAINERS "7 DEG"					
E10017	5.5 mm	28.10 mm	22.20 mm	15.77 mm	Dble Spring-7deg Pro CNC Retainer - Honda Stock Spring
E10018	5.5 mm	28.20 mm	22.85 mm	17.15 mm	Dble Spring-7deg Pro CNC Retainer - Ferrea Racing Spring # S10028, # S10070, # S10104
E10021	5.5 mm	27.95 mm	20.80 mm	16.10 mm	Dble Spring-7deg Pro CNC Retainer - Ferrea Racing Spring # S10035
MITSUBISHI 3000 GT 3.0L - DOHC 24 VALVE (6G72-TURBO 6G72T) - 1990-2001					
E10023	6.5 mm	29.17 mm	-	17.15 mm	Dble Spring-6 deg Pro CNC Retainer - Ferrea Racing Spring # S10037
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999					
E10024	6.5 mm	29.17 mm	-	17.15 mm	Dble Spring-6 deg Pro CNC Retainer - Ferrea Racing Spring # S10036
SATURN ILO 1.9L - 1991-1998					
E10028	5.5 mm	28.20 mm	22.85 mm	17.15 mm	Dble Spring-7 deg Pro CNC Retainer - Ferrea Racing Spring # S10060
TOYOTA MR2 2.0L "6 DEG"					
E10022	6 mm	26.92 mm	-	16.10 mm	Dble Spring-6 deg Pro CNC Retainer - Ferrea Racing Spring # S10034
TOYOTA SUPRA RETAINERS "6 DEG"					
E10020	6 mm	26.92 mm	-	16.10 mm	Dble Spring-6 deg Pro CNC Retainer - Ferrea Racing Spring # S10033

SPORT COMPACT STEEL VALVE LOCKS



We offer **Valves Locks** machined from premium quality heat-treated steel alloy, which insure precision fit between the spring retainer and valve stem. These locks are stronger than OEM, maintaining proper installed height during operation, with High Pressure Springs. These Valve Locks are available for most applications.



- Patent pending Hylomar technology
- Coated with non-setting sealant
- Our keepers stick to the valve stem
- Saves time & aggravation
- Standard & performance versions

SPORT COMPACT STEEL VALVE LOCKS

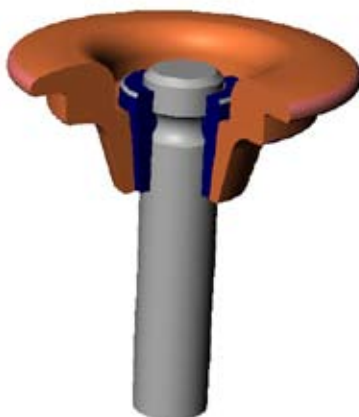
Part Nº	Specifications
ACURA RADIAL VALVE LOCKS "7 DEG." HONDA RADIAL VALVE LOCKS "7 DEG."	
K10034	5.5 mm. Radial Groove.
AUDI 80 QUATRO 2.2 L - DOHC 20 VALVE (7A) - 1989-1992 AUDI 200 QUATRO 2.2 L - DOHC 20 VALVE (3B) - 1991 AUDI COUPE QUATRO 2.2 L - DOHC 20 VALVE (7A) - 1990-1991	
K10082	7 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11084
AUDI RS 2.2 L - DOHC 20 VALVE (ADU) - 1994-1995 AUDI S4 2.2 L - DOHC 20 VALVE (AAN) - 1992-1994 AUDI S6 2.2 L - DOHC 20 VALVE (AAN) - 1995	
K10082	7 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11084
AUDI V8 3.6 L - DOHC 32 VALVE (PT) - 1990-1991 AUDI V8 4.2 L - DOHC 32 VALVE (ABH) - 1992-1994	
K10082	7 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11084
CHRYSLER/DODGE 3.5L - SOHC V6 24 VALVE - 1998-2004	
K10076	7 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11068
DODGE NEON 2.4 - SRT4 - DOHC 16 VALVE (A853) - 2003-2005	
K10079	6 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11073 or #E11074
FORD 2.3L - DOHC ZETEC 16 VALVE - 2002	
K10052	5.5 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11018
FORD ESCORT 2.0L - DOHC ZETEC 16 VALVE (ZX2) - 1999-2001 FORD FOCUS 2.0L - DOHC ZETEC 16 VALVE (ZX3) - 2000-2001	
K10052	5.5 mm. Radial Groove

SPORT COMPACT STEEL VALVE LOCKS

Part N°	Specifications
HYUNDAI TIBURON 4 CYL - DOHC 16 VALVE - 1996-2001	
K10073	6 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11062
HYUNDAI V-6 TIBURON - 2001-2008	
K10064	6 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11049
MAZDA 626 V6 2.5 L - DOHC KL - 1993-1998	
K10068	6 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11026
MAZDA MIATA 1.6L - DOHC 16 VALVE (B6) - 1990-1993 (Hydraulic Buckets) MAZDA MIATA 1.8L - DOHC 16 VALVE (BP056) - 1994-2002 (Hydraulic & Solid Buckets)	
Parts for these applications are no longer offered as stock items due to changes in valvetrain components over their production span. These items must be ordered as custom made parts.	
MINI COOPER S - 16 VALVE - 2002-2006	
K10070	6 mm. Single Radial Groove. Use with Ferrea Titanium Retainer # E11080
MITSUBISHI 3000 GT 3.0L - DOHC 24 VALVE (6G72 - TURBO 6G72T) - 1990-2001	
K10035	6.5 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11053
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999	
K10035	6.5 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11005
MITSUBISHI LANCER EVOLUTION 2L - DOHC 16 VALVE (TURBO 4G63T) - 2003-2007	
K10035	6.5 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11052
NISSAN 350 Z 3.5 L - V-6 - DOHC 24 VALVE (VQ35) - 2003-2008	
K10071	5.5 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11060
K10069	6 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11058 and #E11070
NISSAN ALTIMA 2.4L - DOHC 16 VALVE (KA24DE) - 1995-1999 NISSAN 240 SX 2.4L - DOHC 16 VALVE (KA24DE) - 1991-1998	
K10062	7 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11021
NISSAN PATROL 4.8L 6 CYL IN LINE - 24 VALVE - (TB48DE)	
K10081	6 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11083
NISSAN SENTRA SE-R 2.5L - SPEC V - QR25 - 2002-2007	
K10066	6 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11051
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB25DET) - 1993-1997	
K10063	6 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11082
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB26) - 1989-2002	
K10072	6 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11057

SPORT COMPACT STEEL VALVE LOCKS

Part N°	Specifications
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (NEO RB25DET) - 1998-2002	
K10063	6 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11048
NISSAN RADIAL VALVE LOCKS "6 DEG."	
K10036	6 mm. Radial Groove.
SATURN ILO 1.9L - 1991-1998	
K10056	5.5 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11038
K10060	7 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11036
SCION tC 2.4L - DOHC 16 VALVE (2AZFE) - 2005	
K10080	5.5 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11075
SUBARU WRX - EJ20 - 2001-2008	
K10061	6 mm. Radial Groove
SUBARU WRX - STI - 2004-2008	
K10074	6 mm. Radial Groove. Use with Ferrea Titanium Retainer #E11064 or E11065.
SUBARU 2.5 L - EJ25D - 1996-1998	
K10061	6 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11044
TOYOTA RADIAL VALVE LOCKS "6 DEG."	
K10037	6 mm. Radial Groove.
VW GOLF / JETTA 1.8 L - DOHC 16 VALVE (PL) - 1987-1989 VW SCIROCCO 1.8 L - DOHC 16 VALVE (PL) - 1986-1988	
K10082	7 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11084
VW GOLF / JETTA 2.0 L - DOHC 16 VALVE (9A) - 1990-1992 VW PASSAT 2.0 L - DOHC 16 VALVE (9A) - 1990-1994	
K10082	7 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11084
VW VR6 2.8L - DOHC 12 VALVE - 1992-2002	
K10059	7 mm. Radial Groove. Use with Ferrea Titanium Retainer # E11039



SPORT COMPACT SPRING SEAT LOCATORS



To complete the Valve-Train Kit **Ferrea** offers premium quality **Spring Seat Locators, Valve Locks, Valve Guides and Valve Seals** for many different applications. We use superior materials and maintain high standards on the production process to deliver a reliable product.

Part N°	Specifications
ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE (B17A1) - 1992-1993 ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE (B18C1-C3) - 1994-2000	
SL1000	Required for Ferrea Springs # S10027, S10028, S10032, and S10104
SL1004	Required for Ferrea Springs # S10027, S10028, S10032, and S10070 This seat locator is designed with a step for HIGH PRESSURE
SL1005	Required for Ferrea Spring # S10035
SL1044	Required for Ferrea Spring # S10086. Seat Locator is designed for HIGH PRESSURE
SL1090	Required for Ferrea Behive Spring # S2014
ACURA INTEGRA LS-GS 1.8L - DOHC V-TEC 16 VALVE (B18A1-BI) - 1990-2000 HONDA CRV 2.0L - DOHC V-TEC 16 VALVE (B20A-B20Z) - 1997-2000	
SL1017	Required for Ferrea Spring # S10046 (8 pieces - FOR EXHAUST APPLICATION ONLY) FOR INTAKE APPLICATION use Factory supplied Spring Seat Locator
ACURA RSX 2.0L - DOHC V-TEC 16 VALVE (K20) - 2001-2006	
SL1052	Required for Ferrea Spring # S10099 (16 pieces)
SL1053	Required for Ferrea Spring # S10100 (16 pieces)
SL1094	Required for Ferrea Behive Spring # S2018
AUDI 1.8T - DOHC 20 VALVE - 1996-2005	
SL1025	Intake (12 pieces)
SL1026	Exhaust (8 pieces)

SPORT COMPACT SPRING SEAT LOCATORS

Part Nº	Specifications
AUDI 2.7T - DOHC 30 VALVE (APB) - 1998-2004	
SL1025	Intake (18 pieces)
SL1026	Exhaust (12 pieces)
AUDI RS6 4.2L - DOHC V8 40 VALVE (BCY) - 2002-2004	
SL1025	Intake (24 pieces)
SL1026	Exhaust (16 pieces)
AUDI 80 QUATRO 2.2 L - DOHC 20 VALVE (7A) - 1989-1992 AUDI 200 QUATRO 2.2 L - DOHC 20 VALVE (3B) - 1991 AUDI COUPE QUATRO 2.2 L - DOHC 20 VALVE (7A) - 1990-1991	
SL1073	Required for Ferrea Spring # S10115 (20 pieces)
AUDI RS2 2.2 L - DOHC 20 VALVE (ADU) - 1994-1995 AUDI S4 2.2 L - DOHC 20 VALVE (AAN) - 1992-1994 AUDI S6 2.2 L - DOHC 20 VALVE (AAN) - 1995	
SL1073	Required for Ferrea Spring # S10115 (20 pieces)
AUDI V8 3.6 L - DOHC 32 VALVE (PT) - 1990-1991 AUDI V8 4.2 L - DOHC 32 VALVE (ABH) - 1992-1994	
SL1073	Required for Ferrea Spring # S10115 (32 pieces)
BMW 3 SERIES (M50-M51-M52)	
SL1021	Required for Ferrea Spring # S10049 (24 pieces)
SL1045	Required for Ferrea Spring # S10049. Seat Locator is designed with a step for HIGH PRESSURE. (24 pieces)
CHRYSLER/DODGE 3.5L - SOHC V6 24 VALVE - 1998-2004	
SL1054	Required for Ferrea Spring # S10101 (24 pieces)
DODGE NEON 2.4 - SRT4 -DOHC 16 VALVE (A853) - 2003-2005	
SL1061	Required for Ferrea Spring # S10107 (16 pieces). Use BOTH Ferrea Spring Seat Locator #SL1061 and Factory supplied Spring Seat Locator
SL1062	Required for Ferrea Spring # S10108 (16 pieces). Use BOTH Ferrea Spring Seat Locator #SL1062 and Factory supplied Spring Seat Locator
FORD ESCORT 2.0L - DOHC ZETEC 16 VALVE (ZX2) - 1999-2001 FORD FOCUS 2.0L - DOHC ZETEC 16 VALVE (ZX3) - 2000-2001	
SL1014	Required for Ferrea Spring # S10040 (16 pieces). Use BOTH, Ferrea Spring Seat Locator #SL1014 and Factory supplied Spring Seat Locator
SL1015	Required for Ferrea Spring # S10041 (16 pieces)
FORD 2.3L - DOHC ZETEC 16 VALVE - 2002	
SL1019	Required for Ferrea Spring # S10041 (16 pieces)
SL1020	Required for Ferrea Spring # S10040 (16 pieces). Use BOTH, Ferrea Spring Seat Locator #SL1020 and Factory supplied Spring Seat Locator

SPORT COMPACT SPRING SEAT LOCATORS

Part Nº	Specifications
GEO METRO/SUZUKI SWIFT 1.0 L - SOHC 6 VALVE (G10)	
SL1018	Required for Ferrea Spring # S10047 (6 pieces).
GM 2.2 ECO TEC	
SL1028	Required for Ferrea Spring # S10057 (16 pieces) This Seat Locator is designed with a step for HIGH PRESSURE.
GM 5 CYLINDER - L5	
SL1027	Required for Ferrea Spring # S10058 (20 pieces). Use BOTH, Ferrea Spring Seat Locator #SL1027 and Factory supplied Spring Seat Locator
HONDA DEL SOL 1.6L - DOHC V-TEC 16 VALVE (B16A1) - 1994-1997	
HONDA CIVIC SI 1.6L - DOHC V-TEC 16 VALVE (B16A3) - 1999-2000	
SL1000	Required for Ferrea Springs # S10027, S10028, S10032, and S10104
SL1004	Required for Ferrea Springs # S10027, S10028, S10032, and S10070 This Seat Locator is designed with a step for HIGH PRESSURE.
SL1005	Required for Ferrea Spring # S10035
SL1044	Required for Ferrea Spring# S10086. This Seat Locator is designed for HIGH PRESSURE
SL1090	Required for Ferrea Behive Spring# S2014
HONDA ACCORD 2.2L - SOHC 16 VALVE (F22B2-F22B6) - 1994-1995	
SL1010	Required for Ferrea Spring # S10104 and S10070 (16 pieces)
HONDA PRELUDE 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993-2000	
SL1000	Required for Ferrea Spring # S10027
SL1003	Required for Ferrea Springs # S10028, S10032, S10104 and S10070
SL1006	Required for Ferrea Spring # S10035
SL1090	Required for Ferrea Behive Spring# S2014
HONDA S 2000 - F20C - 2000-2003	
HONDA S 2000 - F22C - 2004-2008	
SL1035	Required for Ferrea Springs # S10074 (16 pieces)
HYUNDAI TIBURON 4 CYL - DOHC 16 VALVE - 1996-2001	
SL1050	Required for Ferrea Spring# S10094. (16 pieces).
HYUNDAI V-6 TIBURON - 2001-2008	
SL1039	Required for Ferrea Springs # S10081 (24 pieces)
MAZDA 626 V6 2.5 L - DOHC KL - 1993-1998	
SL1022	Required for Ferrea Spring # S10050 (24 pieces)
MAZDA MIATA 1.6L (B6) - DOHC 16 VALVE (BP056) - 1990-1993 (Hydraulic Buckets)	
MAZDA MIATA 1.8L - DOHC 16 VALVE (BP056) - 1994-1997 (Hydraulic Buckets)	
Parts for these applications are no longer offered as stock items due to changes in valvetrain components over their production span. These items must be ordered as custom made parts.	

SPORT COMPACT SPRING SEAT LOCATORS

Part N°	Specifications
MAZDA MIATA 1.6L - DOHC 16 VALVE (B6) - 1990-1993 (Hydraulic Buckets) MAZDA MIATA 1.8L - DOHC 16 VALVE (BP056) - 1990-2002 (Hydraulic & Solid Buckets) Parts for these applications are no longer offered as stock items due to changes in valvetrain components over their production span. These items must be ordered as custom made parts.	
MINI COOPER S - 16 VALVE - 2002-2006 SL1067 Required for Ferrea Spring # S10111 (16 pieces).	
MITSUBISHI 3000 GT 3.0L - DOHC 24 VALVES (6G72-TURBO 6G72T) - 1990-2001 SL1008 Required for Ferrea Spring # S10037 (24 pieces)	
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999 SL1002 Required for Ferrea Spring # S10031 (16 pieces) SL1009 Required for Ferrea Spring # S10036 (16 pieces) SL1091 Required for Ferrea Behive Spring # S2015 (16 pieces)	
MITSUBISHI LANCER EVOLUTION 2L - DOHC 16 VALVE (TURBO 4G63T) - 2003-2007 SL1041 Required for Ferrea Springs # S10084 (16 pieces).	
NISSAN 300 ZX 3.0L - DOHC 24 VALVE (VG30D-TURBO VG30DTT) - 1990-1996 SL1012 Required for Ferrea Spring # S10039 (24 pieces)	
NISSAN 350 Z 3.5 L - V-6 - DOHC 24 VALVE (VQ35) - 2003-2008 SL1048 Required for Ferrea Spring # S10091 (24 pieces). SL1065 Required for Ferrea Spring # S10103 (24 pieces).	
NISSAN ALTIMA 2.4L - DOHC 16 VALVE (KA24DE) 1995-1998 NISSAN 240 SX 2.4L - DOHC 16 VALVE (KA24DE) 1991-1998 SL1064 Required for Ferrea Spring #10043 (16 pieces) Use BOTH Ferrea Spring Seat Locator #SL1064 and Factory supplied Spring Seat Locator.	
NISSAN PATROL 4.8L 6 CYL IN LINE - 24 VALVE - (TB48DE) SL1070 Required for Ferrea Spring #10114 (24 pieces)	
NISSAN SENTRA SE-R 2.0L - DOHC 16 VALVE (SR20DE-SR20DET) - 1991- 1998 SL1011 Required for Ferrea Spring # S10038 (16 pieces)	
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB26) - 1989-2002 SL1047 Required for Ferrea Spring # S10090 (24 pieces).	
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB25DET) - 1993-1997 SL1068 Exhaust. Required for Ferrea Spring # S10112 (24 pieces) SL1069 Intake. Required for Ferrea Spring # S10112 (12 pieces)	
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE (NEO RB25DET) - 1998-2002 SL1037 Required for Ferrea Springs # S10078 (24 pieces). Use BOTH, Ferrea Spring Seat Locator # SL1037 and Factory supplied Spring Seat Locator.	

SPORT COMPACT SPRING SEAT LOCATORS

Part N°	Specifications
SATURN LLO 1.9L -1991-1998	
SL1029	Required for Ferrea Spring # S10060 (16 pieces)
SCION tC 2.4L - DOHC 16 VALVE (2AZFE) - 2005	
SL1063	Required for Ferrea Spring #S10110 (16 pieces).
SUBARU WRX - EJ20 - 2001-2008	
SL1034	Required for Ferrea Springs # S10071 (16 pieces) and #S10072 (16 pieces)
SUBARU WRX - STI - 2004-2008	
SL1051	Required for Ferrea Springs # S10097 (16 pieces) and #S10098 (16 pieces)
SUBARU 2.5 L - EJ25D - 1996-1998	
SL1038	Required for Ferrea Springs # S10079 (16 pieces)
TOYOTA MR2 2.0L - DOHC 16 VALVE (TURBO 3SGTE) - 1990-1995	
SL1007	Required for Ferrea Spring # S10034 (16 pieces)
TOYOTA SUPRA 3.0L I/L 6 CYL - DOHC 24 VALVE (2JZGE-2JZGTE) - 1994-1998	
SL1001	Required for Ferrea Spring # S10033 (24 pieces), S10045 (24 pieces) or S10109 (24 pieces)
SL1060	Required for Ferrea Spring # S10045 (24 pieces) or #S10109.
	This Seat Locator is designed for HIGH PRESSURE
	NOTE: To achieve HIGH PRESSURE, both Seat Locators (#SL1001 and #SL1060) have to be used together
TOYOTA 2.0 L - 3SGE ENGINE -	
SL1032	Required for Ferrea Springs # S10073 (16 pieces)
TOYOTA SUPRA 3.0L - DOHC 24 VALVE (7MGE-TURBO 7MGTE) - 1986-1992	
SL1016	Required for Ferrea Spring #S10044 (24 pieces)
VW 1.8T -DOHC 20 VALVE - 1998-2005	
SL1025	Intake (12 pieces) Required for Ferrea Spring #S10055
SL1026	Exhaust (8 pieces) Required for Ferrea Spring #S10056
VW GOLF / JETTA 1.8 L - DOHC 16 VALVE (PL) - 1987-1989	
VW SCIROOCO 1.8 L - DOHC 16 VALVE (PL) - 1986-1988	
SL1073	Required for Ferrea Spring #S10015 (16 pieces)
VW GOLF / JETTA 2.0 L - DOHC 16 VALVE (9A) - 1990-1992	
VW PASSAT 2.0 L - DOHC 16 VALVE (9A) - 1990-1994	
SL1073	Required for Ferrea Spring #S10015 (16 pieces)

New

SPORT COMPACT COPPER ALLOY VALVE GUIDES

New



Ferrea Super Copper Alloy Valve Guides reflect the highest level of technology applied to produce valve guides.

We proudly introduce the next generation of **extreme heat resistant valve guides**, specifically developed to withstand the Supercharged, Turbocharged, Nitrous Oxide, Dual Power Adders, or 9.0 compression restricted race motors.

We have developed a proprietary processed **high copper-based alloy** combined with other key elements and a **unique heat-treatment process**, which yields extreme heat resistance and vast heat dissipation properties.

All our valve guides are **CNC precision-machined** to exact tolerances. They are ideal for exhaust applications and are compatible with **Stainless and Titanium Valves**.

Part Nº	Specifications
ACURA HONDA	
VG1044	Exhaust Std. size. Use Ferrea Valve Seal Part# VS1002. For Turbo applications
VG1045	Exhaust + .001 Over size. Use Ferrea Valve Seal Part# VS1002. For Turbo applications
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999 MITSUBISHI LANCER EVOLUTION 2.0L - DOHC 16 VALVE (TURBO 4G63T) - 2003-2007	
VG1048	Exhaust Std. size. Use Ferrea Valve Seal Part# VS1010. For Turbo applications
VG1049	Exhaust + .001 Over size. Use Ferrea Valve Seal Part# VS1010. For Turbo applications
NISSAN 350 Z 3.5 L - V-6 - DOHC 24 VALVE (VQ35) - 2003-2008	
VG1040	Exhaust Std. size. Use Ferrea Valve Seal Part# VS1012. For Turbo applications
VG1041	Exhaust + .001 Over size. Use Ferrea Valve Seal Part# VS1012. For Turbo applications
TOYOTA SUPRA 3.0L I/L 6 CYL - DOHC 24 VALVE (2JZGE-2JZGTE) - 1994-1998	
VG1046	Exhaust Std. size. Use Ferrea Valve Seal Part# VS1008. For Turbo applications
VG1047	Exhaust + .001 Over size. Use Ferrea Valve Seal Part# VS1008. For Turbo applications

SPORT COMPACT MANGANESE BRONZE VALVE GUIDES



Ferrea Valve Guides are precision-machined from high quality, manganese bronze material. They are ideal for both intake and exhaust applications, and are compatible with Stainless and Titanium Valves.

Part N°	Specifications
ACURA / HONDA	
VG1000	Exhaust Std. size. Use Ferrea Valve Seal Part# VS1002
VG1001	Exhaust + .001 Over size. Use Ferrea Valve Seal Part# VS1002
VG1002	Inake Std size. Use Ferrea Valve Seal Part# VS1003
VG1003	Intake + .001 Over size. Use Ferrea Valve Seal Part# VS1003
ACURA RSX 2.0L - DOHC V-TEC 16 VALVE (K20) - 2001-2006	
VG1064	Exhaust Std. size. Use Ferrea Valve Seal Part# VS1002
VG1065	Exhaust + .001 Over size. Use Ferrea Valve Seal Part# VS1002
VG1062	Intake Std. size. Use Ferrea Valve Seal Part# VS1003
VG1063	Intake + .001 Over size. Use Ferrea Valve Seal Part# VS1003
HONDA S 2000 (F20C) - 2000-2003	
HONDA S 2000 (F22C) - 2004-2008	
VG1056	Exhaust Std. size. Use Ferrea Valve Seal Part# VS1002
VG1057	Exhaust + .001 Over size. Use Ferrea Valve Seal Part# VS1002
VG1058	Inake Std size. Use Ferrea Valve Seal Part# VS1003
VG1059	Intake + .001 Over size. Use Ferrea Valve Seal Part# VS1003
FORD ESCORT 2.0L - DOHC ZETEC 16 VALVE (ZX2) - 1999-2001	
FORD FOCUS 2.0L - DOHC ZETEC 16 VALVE (ZX3) - 2000-2001	
VG1006	Intake Std. To be used with 5.5 mm stem valve. Use Ferrea Valve Seal Part# VS1001
VG1007	Exhauste Std. To be used with 5.5 mm stem valve. Use Ferrea Valve Seal Part# VS1000
FORD 2.3L - DOHC ZETEC 16 VALVE - 2002	
VG1015	Intake Std. To be used with 5.5 mm stem valve. Use Ferrea Valve Seal Part# VS1001
VG1016	Exhauste Std. To be used with 5.5 mm stem valve. Use Ferrea Valve Seal Part# VS1000
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999	
MITSUBISHI LANCER EVOLUTION 2.0L - DOHC 16 VALVE (TURBO 4G63T) - 2003-2007	
VG1050	Intake Std. size. Use Ferrea Valve Seal Part# VS1011.
VG1051	Intake + .001 Over size. Use Ferrea Valve Seal Part# VS1011.
NISSAN 350 Z 3.5 L - V-6 - DOHC 24 VALVE (VQ35) - 2003-2008	
VG1038	Intake Std. size. Use Ferrea Valve Seal Part# VS1014.
VG1039	Intake + .001 Over size. Use Ferrea Valve Seal Part# VS1014.
SATURN ILO 1.9L - 1991-1998	
VG1027	Intake 5.5 mm. OD 11.4 mm. Use Ferrea Valve Seal Part# VS1006
VG1028	Exhaust 5.5 mm. OD 11.4 mm. Use Ferrea Valve Seal Part# VS1007
TOYOTA SUPRA 3.0L I/L 6 CYL - DOHC 24 VALVE (2JZGE-2JZGTE) - 1994-1998	
VG1034	Exhaust Std. size. Use Ferrea Valve Seal Part# VS1008.
VG1037	Exhaust + .001 Over size. Use Ferrea Valve Seal Part# VS1008.
VG1035	Inake Std size. Use Ferrea Valve Seal Part# VS1009.
VG1036	Intake + .001 Over size. Use Ferrea Valve Seal Part# VS1009.

SPORT COMPACT VALVE SEALS



Ferrea Valve Seals are made of rubber compound material for intake application and Special Hi Temp compound for the exhaust application.

Part N°	Specifications
ACURA / HONDA	
VS1002	Exhaust. 5.5 mm valve stem. Viton rubber compound. Hi Temp
VS1003	Intake. 5.5 mm valve stem. Viton rubber compound
Note: These Valve Seals can be used in the following Acura and Honda engines: B17A1 - B18C1-C3 - B18A1-B1 - K20 - F22B2-F22B6 - F22B1 - D16A6 - D16Z6-Y5-Y7-Y8 - B16A1 - B16A3 - H22A1-A4 - F20C - F22C	
DODGE NEON 2.4 - SRT4 - DOHC 16 VALVE (A853) - 2003-2005	
VS1017	Intake 6mm valve stem. Poly rubber compound. The seal include the Stock Spring Seat Locator
VS1018	Exhaust 6mm valve system. Viton rubber compound. Hi Temp. The seal include the Stock Spring Seat Locator
FORD 2.3L - DOHC ZETEC 16 VALVE - 2002	
VS1000	Exhaust. 5.5 mm valve stem. Viton rubber compound. Hi Temp
VS1001	Intake. 5.5 mm valve stem. Viton rubber compound
FORD ESCORT 2.0L - DOHC ZETEC 16 VALVE (ZX2) - 1999-2001	
FORD FOCUS 2.0L - DOHC ZETEC 16 VALVE (ZX3) - 2000-2001	
VS1000	Exhaust. 5.5 mm valve stem. Viton rubber compound. Hi Temp
VS1001	Intake. 5.5 mm valve stem. Viton rubber compound
MITSUBISHI ECLIPSE GS-GST 2.0L - DOHC 16 VALVE (4G63-4G63T) - 1990-1999	
MITSUBISHI LANCER EVOLUTION 2.0L - DOHC 16 VALVE (TURBO 4G63T) - 2003-2007	
VS1010	Exhaust 6.55 mm valve stem. Viton rubber compound. Hi Temp.
VS1011	Intake 6.57 mm valve stem. Viton rubber compound.
NISSAN SKYLINE 6 CYL IN LINE - 24 VALVE - (RB25DET) - 1993-1997	
VS1022	Exhaust 6.00 mm valve stem. Viton rubber compound. Hi Temp.
VS1023	Intake 6.00 mm valve stem. Viton rubber compound. Hi Temp.
NISSAN 350 Z 3.5 L - V-6 - DOHC 24 VALVE (VQ35) - 2003-2008	
VS1012	Exhaust 6 mm valve stem. Viton rubber compound. Hi Temp.
VS1014	Intake 6 mm valve stem. Viton rubber compound.
SATURN ILO 1.9L - 1991-1998	
VS1006	Intake. 5.5 mm valve stem. Viton rubber compound
VS1007	Exhaust. 5.5 mm valve stem. Viton rubber compound. Hi Temp
SUBARU WRX - STI - 2004-2008	
VS1015	Exhaust 6 mm valve stem. Viton rubber compound. Hi Temp
VS1016	Intake 6 mm valve stem. Viton rubber compound
TOYOTA SUPRA 3.0L I/L 6 CYL - DOHC 24 VALVE (2JZGE-2JZGTE) - 1994-1998	
VS1008	Exhaust 6 mm valve stem. Viton rubber compound. Hi Temp.
VS1009	Intake 6 mm valve stem. Viton rubber compound.



MOTORCYCLE

APPLICATIONS



**ENGINEERING
TO EXCELLENCE**
FOR HIGH QUALITY VALVETRAIN COMPONENTS



New

MOTORCYCLE TITANIUM COMPETITION VALVES

New

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
HARLEY DAVIDSON DRAG RACE.						
F0401	E	1.750	.310	5.600	BLANK	25°
F0402	E	1.850	.310	5.600	BLANK	22°
F0085	E	1.940	5/16	6.500	BLANK	25° Tulip Flo
F1384	E	2.000	5/16	7.000	BLANK	25° Tulip
F0089	I	2.100	5/16	5.600	BLANK	22° Tulip
F0084	I	2.300	5/16	6.500	BLANK	26° Tulip
HONDA CRF 450 (2002-2006) - MOTOCROSS -						
F0410	I	36 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo. Dish Head. Stock size.
F0409	I	37 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo. Dish Head. - 1mm oversize.
F0408	I	38 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo. Dish Head. - 2mm oversize
HONDA CRF 450 (2007-2008) - MOTOCROSS -						
F0410	I	36 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo. Dish Head. Stock size.
F0409	I	37 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo. Dish Head. - 1mm oversize.
F0408	I	38 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo-Dish Head. + 2mm oversize.
KAWASAKI 250 (2004) - MOTOCROSS -						
F0412	E	25 mm	4.46 mm	79.1 mm	1.03 mm	25° Flo. Stock
F0414	E	26 mm	4.46 mm	79.1 mm	1.03 mm	25° Flo. + 1mm oversize
F0411	I	31 mm	4.48 mm	78.93 mm	1.03 mm	20° Flo. Stock
F0413	I	32 mm	4.48 mm	78.93 mm	1.03 mm	20° Flo. + 1mm oversize
SUZUKI 250 (2004) - MOTOCROSS -						
F0412	E	25 mm	4.46 mm	79.1 mm	1.03 mm	25° Flo. Stock
F0414	E	26 mm	4.46 mm	79.1 mm	1.03 mm	25° Flo. + 1mm oversize
F0411	I	31 mm	4.48 mm	78.93 mm	1.03 mm	20° Flo. Stock
F0413	I	32 mm	4.48 mm	78.93 mm	1.03 mm	20° Flo. + 1mm oversize
SUZUKI GSXR 750 - ROAD RACE -						
F0088	E	24 mm	4.5 mm	96.4 mm	1.6 mm	15° Flo
F0087	I	29 mm	4.5 mm	96.3 mm	1.6 mm	15° Flo
BLANKS						
F0426	E	26 mm	3.97mm	100mm	BLANK	20° Back angle. Flo. Hi Temp.
F0427	E	28 mm	3.97mm	100mm	BLANK	20° Back angle. Flo. Hi Temp.
F0432	I	30 mm	3.98mm	100mm	BLANK	17° Back angle. Flo.
F0433	I	32 mm	3.98mm	100mm	BLANK	17° Back angle. Flo.
F0430	E	26 mm	4.46mm	100mm	BLANK	22° Back angle. Flo. Hi Temp.
F0431	E	28 mm	4.46mm	100mm	BLANK	22° Back angle. Overcut Flo. Hi Temp.
F0428	I	32 mm	4.48mm	100mm	BLANK	20° Back angle. Flo.
F0429	I	34 mm	4.48mm	100mm	BLANK	22° Back angle. Flo.
F0404	E	30 mm	4.98mm	135mm	BLANK	20° Flo. Hi Temp.
F0429	I	34 mm	4.48mm	100mm	BLANK	22° Back angle. Flo.
F0403	I	35 mm	4.98mm	135mm	BLANK	17° Super Flo.
F0255	E	33 mm	5.47mm	135mm	BLANK	19° Flat Head
F0254	I	41 mm	5.48mm	135mm	BLANK	19° Flat Head
F0042	E	32 mm	5.5mm	145mm	BLANK	26° Tulip Flo.
F0043	I	38 mm	5.5mm	135mm	BLANK	26° Tulip Super Flo.
F0235	E	34 mm	5.95mm	135mm	BLANK	21° Flo. Dish Head
F0234	I	40 mm	5.97mm	135mm	BLANK	19° Super Flo. Flat Head
F0405	E	40 mm	5.98mm	135mm	BLANK	16° Flo.
F0407	E	40 mm	5.98mm	135mm	BLANK	25° Flo.
F0406	I	50 mm	5.98mm	135mm	BLANK	12° Flo.
F0083	E/I	1.500	.247	4.800	BLANK	10° Super Flo-Go Kart & Jr. Dragster
F0040	E	40 mm	7mm	145mm	BLANK	26° Tulip Super Flo-Pro Stock
F0400	E	40 mm	7mm	145mm	BLANK	30° Tulip Super Flo-Pro Stock
F0041	I	50 mm	7mm	145mm	BLANK	25° Tulip Super Flo-Pro Stock
F0056	I	50 mm	7mm	145mm	BLANK	15° Super Flo-Pro Stock
F0420	I	50 mm	7mm	145mm	BLANK	19° Super Flo-Pro Stock
F0422	E	32.5 mm	7.095mm	145mm	BLANK	30°
F0421	I	39 mm	7.1mm	145mm	BLANK	19°
F0401	E	1.750 mm	.310	5.600	BLANK	25° HARLEY
F0402	E	1.850 mm	.310	5.600	BLANK	22° HARLEY
F0089	I	2.100 mm	.310	5.600	BLANK	22° HARLEY
F0085	E	1.940 mm	5/16	6.500	BLANK	25° Tulip Flo
F0084	I	2.300 mm	5/16	6.500	BLANK	25° Tulip Flo

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MOTORCYCLE COMPETITION VALVES HOLLOW STEM VALVES



To the wide selection of valves that **Ferrea** offer to the motorcycle market, we add the **Hollow Stem Lightweight Valve**, a unique piece that we manufacture gun drilling and micro polishing the hollow stem.

The use of light components in the valve train allows the increase in rpm's and a generation of more HP (hollow stem valves achieve a weight reduction of about 20% compare with conventional stainless steel solid-stem valve).

These **Ferrea** valves feature **radial grooves, friction welded tips, avionics chrome plated stems, super flo** to improve flow design **seat hardness** up to 42 HRc.

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
HARLEY DAVIDSON - EVOLUTION (1984/1998)						
F1055P	E	1.625	.310	4.531	.200	24° Super Flo. Special Alloy
F1054P	I	1.940	.310	4.444	.200	24° Super Flo. Special Alloy



*VRod Destroyer purpose built race bike by Harley-Davidson, Inc.
This bike utilizes factory Ferrea valves.*

MOTORCYCLE COMPETITION VALVES

For over a decade **Ferrea** has supplied many top race teams and elite engine builders with the best Competition Motorcycle Valve in the world. Whether it's a 14,000 rpm Pro Stock Motorcycle Titanium Valve or a 1000 hp + Top Fuel Super Alloy Valve, **Ferrea** has what you need. We have developed the motorcycle-racing valve implementing the same technology as our extreme duty, competition plus (automotive) racing valve. The net result is a valve that can withstand the punishment of extremely high rpm, multiple stages of nitrous injection, turbocharger and even blown fuel applications. No other valve even comes close to the performance and reliability of **Ferrea's**. Our valves have set more records in numerous categories worldwide than any other valve on the market.



We have expanded our **Motorcycle Valves** offering to include the **four stroke engines**, which are becoming the trend in off road racing. We have updated our **Japanese engine valve program** and also expanded our **Harley Davidson after-market engine valve** offering. We added many blank valves for any type of custom machining, usually within 7 to 10 days.

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BRIGGS & STRATTON (STAINLESS STEEL)						
F0072	E	1.128	.247	3.845	.235	15° Super Flo-Go Kart & Jr. Dragster
F0073	E	1.167	.247	3.845	.235	15° Super Flo-Go Kart & Jr. Dragster
F0070	I	1.252	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
F0071	I	1.291	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
F0074	I	1.378	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
F0075	I	1.400	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
F0076	I	1.500	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
BRIGGS & STRATTON (TITANIUM)						
F0082	E	1.141	.247	3.845	.235	15° Super Flo-Go Kart & Jr. Dragster
F0080	I	1.252	.247	3.845	.235	15° Super Flo-Go Kart & Jr. Dragster
F0081	I	1.378	.247	3.845	.235	10° Super Flo-Go Kart & Jr. Dragster
F0083	E/I	1.500	.247	4.800	BLANK	10° Super Flo-Go Kart & Jr. Dragster
BUELL XB9 (2002 - 2003)						
F0302	E	1.575	.2754	4.610	.100	25° Flo. Stock Size. Triple Groove
F0303	E	1.615	.2754	4.610	.100	25° Flo. Over Size. Triple Groove
F0300	I	1.810	.2755	4.520	.100	25° Super Flo. Stock Size. Triple Groove
F0301	I	1.840	.2755	4.520	.100	25° Super Flo. Over Size. Triple Groove
HARLEY DAVIDSON - EVOLUTION & TWIN CAM (1984/2004)						
F0501	E	1.572	.310	4.523	.200	25° Flo. Dish Head. Black Nitride
F0145	E	1.615	.310	4.531	.200	24° Flo. Stock Size
F0275	E	1.615	.310	4.531	.200	40° Flo. Stock Size
F0507	E	1.615	.310	4.523	.200	25° Flo. Flat Head. Black Nitride
F0500	E	1.615	.310	4.527	.205	25° Flo. Dish Head. Black Nitride
F0045	E	1.625	.310	4.531	.200	24° Flo. Oversize
F0251	E	1.625	.310	4.430	.180	Harley/Edelbrock
F0502	I	1.900	.310	4.441	.205	25° Flo. Over Size. Dish Head. Black Nitride
F0503	I	1.944	.310	4.444	.200	25° Flo. Over Size. Dish Head. Black Nitride
F0504	I	2.022	.310	4.438	.205	25° Flo. Dish Head. Black Nitride
HARLEY DAVIDSON - EVOLUTION (1984/1998)						
F0285	E	1.625	.310	4.511	.180	24° Flo. Over size. Harley/Edelbrock
F0143	E	1.750	.310	4.531	.200	24° Flo. Oversize
F0144	I	1.850	.310	4.444	.200	24° Flo. Stock Size
F0046	I	1.900	.310	4.444	.200	24° Flo. Oversize
F0284	I	1.940	.310	4.424	.180	24° Flo. Over size. Harley/Edelbrock
F0044	I	1.940	.310	4.444	.200	24° Flo. Oversize
F0252	I	2.000	.310	4.345	.180	Harley/Edelbrock
F0146	I	2.000	.310	4.444	.200	24° Flo. Oversize
F0317	I	2.100	.310	4.444	.200	24° Super Flo. Oversize
HARLEY DAVIDSON - SHOVEL HEAD (1966/1984)						
F0505	E	1.750	.375	3.830	.200	25° Flo. Dish Head. Black Nitride
F0027	E	1.755	.308	3.820	.205	28° Flo
F0026	I	1.950	.308	3.890	.183	21° Flo
F0506	I	1.956	.375	3.884	.200	20° Super Flo. Dish Head. Black Nitride
HARLEY DAVIDSON - TWIN CAM (2005-2008)						
F0349	E	1.575	.2754	4.531	.080	25° Flo. Stock size. Triple Groove
F0318(*)	E	1.615	.2754	4.561	.080	25° Flo. Oversize. Single Radial Groove
F0319	I	1.810	.2755	4.425	.080	22° Super Flo. Stock size. Triple Groove
F0320(*)	I	1.900	.2755	4.440	.080	22° Super Flo. Oversize. Single Radial Groove

Tech Note: (*) Ferrea valves with single radial groove must use Valve Lock # K10062. This Valve Lock works with either, Ferrea Titanium Retainer # E12028 or Factory Supplied Retainer.

MOTORCYCLE COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
HARLEY DAVIDSON - VRSCA V ROD (2002-2003)						
F0210	E	34.4 mm	5.95 mm	116.98 mm	1.8 mm	21° Flo. Stock Size. Triple Groove
F0212	E	35.4 mm	5.95 mm	116.98 mm	1.8 mm	21° Flo. Over size. Triple Groove
F0209	I	40 mm	5.97 mm	116.28 mm	1.8 mm	19° Super Flo. Stock Size. Triple Groove
F0211	I	41 mm	5.97 mm	116.28 mm	1.8 mm	19° Super Flo. Over size. Triple Groove
HARLEY DAVIDSON XL 883						
F0312	E	1.350	.310	4.645	.200	24° Flo. Super Alloy
F0311	I	1.590	.310	4.526	.200	24° Flo.
HARLEY DAVIDSON (TITANIUM) DRAG RACE						
F0401	E	1.750	.310	5.600	BLANK	25°
F0402	E	1.850	.310	5.600	BLANK	22°
F0085	E	1.940	5/16	6.500	BLANK	25° Tulip Flo
F1384	E	2.000	5/16	7.000	BLANK	25° Tulip
F0089	I	2.100	5/16	5.600	BLANK	22° Tulip
F0084	I	2.300	5/16	6.500	BLANK	26° Tulip
HONDA CRF 250R (2004/2007) - MOTOCROSS -						
F0329	E	26.00 mm	4.97 mm	82.15 mm	1.0 mm	19° Flo. Dish Head. Stock size
F0330	E	27.00 mm	4.97 mm	82.15 mm	1.0 mm	19° Flo. Dish Head. + 1 mm oversize
F0355	I	31.10 mm	4.98 mm	82.90 mm	1.0 mm	20° Super Flo. Dish Head. Stock size
F0331	I	31.10 mm	4.98 mm	83.40 mm	1.0 mm	20° Super Flo. Dish Head. Stock size
F0356	I	32.10 mm	4.98 mm	82.90 mm	1.0 mm	20° Super Flo. Dish Head. +1 mm oversize
F0332	I	32.10 mm	4.98 mm	83.40 mm	1.0 mm	20° Super Flo. Dish Head. + 1 mm oversize
HONDA CRF 250R (2008) - MOTOCROSS -						
F0357	E	26.00 mm	4.47 mm	82.15 mm	1.0 mm	19° Flo. Dish Head. Stock size
F0358	E	27.00 mm	4.47 mm	82.15 mm	1.0 mm	19° Flo. Dish Head. + 1 mm oversize
F0355	I	31.10 mm	4.98 mm	82.90 mm	1.0 mm	20° Super Flo. Dish Head. Stock size
F0356	I	32.10 mm	4.98 mm	82.90 mm	1.0 mm	20° Super Flo. Dish Head. + 1 mm oversize
TECH NOTE: The INTAKE valves have an Overall Length -.5 mm shorter than stock length size						
HONDA CRF 450 (2002-2006) - MOTOCROSS -						
F0227	E	31mm	4.965mm	84.25mm	1.15mm	19° Flo. Dish Head. Stock size. Black Nitride
F0308	E	31mm	4.965mm	84.25mm	1.15mm	19° Flo. Dish Head. Stock size
F0299	E	32 mm	4.97 mm	84.25 mm	1.15 mm	19° Flo. Dish Head. Over Size.
F0248	I	36mm	5.49mm	84.6mm	1.15mm	20° Flo. Dish Head. Stock size. Black Nitride
F0305	I	36mm	5.49mm	84.6mm	1.15mm	20° Super Flo. Dish Head. Stock size
F0410	I	36mm	5.48mm	84.63mm	1.15mm	20° Flo. Dish Head. Stock size. TITANIUM
F0304	I	37mm	5.49mm	84.6mm	1.15mm	20° Super Flo. Dish Head. - 1mm oversize
F0409	I	37mm	5.48mm	84.63mm	1.15mm	20° Flo. Dish Head. - 1mm oversize. TITANIUM
F0408	I	38 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo-Dish Head. + 2mm Over Size. TITANIUM
HONDA CRF 450 (2007-2008) - MOTOCROSS -						
F0359	E	30 mm	4.965 mm	84.25 mm	1.15 mm	19° Flo. Dish Head. Stock size
F0227	E	31mm	4.965mm	84.25mm	1.15mm	19° Flo. Dish Head. + 1 mm oversize. Black Nitride
F0308	E	31mm	4.965mm	84.25mm	1.15mm	19° Flo. Dish Head. + 1 mm o/size
F0299	E	32 mm	4.97 mm	84.25 mm	1.15 mm	19° Flo. Dish Head. 2 mm oversize.
F0248	I	36mm	5.49mm	84.6mm	1.15mm	20° Flo. Dish Head. Stock size. Black Nitride
F0305	I	36mm	5.49mm	84.6mm	1.15mm	20° Super Flo. Dish Head. Stock size
F0410	I	36mm	5.48mm	84.63mm	1.15mm	20° Flo. Dish Head. Stock size. TITANIUM
F0304	I	37mm	5.49mm	84.6mm	1.15mm	20° Super Flo. Dish Head. - 1mm oversize
F0409	I	37mm	5.48mm	84.63mm	1.15mm	20° Flo. Dish Head. - 1mm oversize. TITANIUM
F0408	I	38 mm	5.48 mm	84.63 mm	1.15 mm	20° Flo-Dish Head. + 2mm oversize. TITANIUM



The Honda CRF 450 Motorcycle of Jared Mees won championships in 2007-2008 with complete Ferrea Racing Valve-train.

MOTORCYCLE COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
HONDA CBR 600 (1987/1988) / HONDA CBR 600F (1989/1990)						
F0091	E	21mm	5mm	74.75mm	3mm	19° Flo. Stock Size
F0191	E	22mm	5mm	74.75mm	3mm	19° Flo. Oversize
F0090	I	24mm	5mm	75.25mm	3mm	18° Super Flo. Stock Size
F0190	I	25mm	5mm	75.25mm	3mm	18° Super Flo. Oversize
F0067	I	30mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
HONDA TRX 450 (2004/2005)						
F0339	E	30mm	5.49mm	84.27mm	1.15mm	22° Flo Dish Head. Stock size
F0340	E	31mm	5.49mm	84.27mm	1.15mm	22° Flo Dish Head. + 1 mm Over size
F0248	I	36mm	5.49mm	84.6mm	1.15mm	20° Flo Dish Head. Stock size. Black Nitride
F0305	I	36mm	5.49mm	84.6mm	1.15mm	20° Super Flo Dish Head. Stock size.
F0410	I	36mm	5.48mm	84.63mm	1.15mm	20° Flo Dish Head. Stock size. Titanium
F0304	I	37mm	5.49mm	84.6mm	1.15mm	20° Super Flo Dish Head. + 1 mm Over size
F0409	I	37mm	5.48mm	84.63mm	1.15mm	20° Flo Dish Head. + 1 mm Over size. Titanium
F0408	I	38mm	5.48mm	84.63mm	1.15mm	20° Flo Dish Head. + 2 mm Over size. Titanium
HONDA CBR 600F2 (1991/1994) / HONDA CBR 600F3 (1995/1998)						
F0094	E	22mm	4mm	79.30mm	1mm	19° Flo Dish Head. Stock Size
F0294	E	22mm	4mm	79.30mm	1mm	19° Flo Flat Head. For pistons w/o dimples
F0194	E	23mm	4mm	79.30mm	1mm	19° Flo. Oversize
F0394	E	23 mm	4 mm	79.30 mm	1 mm	19° Flat Head (Kit Valve). Oversize
F0066	E	23mm	4mm	125mm	BLANK	21° Flo-No Groove-No Tip
F0092	I	25.50mm	4mm	79.25mm	1mm	18° Super Flo Dish Head. Stock Size
F0292	I	25.50mm	4mm	79.25mm	1mm	18° Super Flo Flat Head. For pistons w/o dimples
F0192	I	26.50mm	4mm	79.25mm	1mm	18° Super Flo. Oversize
F0392	I	26.5 mm	4 mm	79.25 mm	1 mm	19° Flat Head (Kit Valve). Oversize
F0064	E/I	26.5mm	4mm	125mm	BLANK	21° Flo-No Groove-No Tip
HONDA CBR 600RF4 (1999/2000)						
F0115	E	23mm	3.96mm	80.85mm	1mm	15° Flo Flat Head. Stock size
F0116	E	24mm	3.96mm	80.85mm	1mm	15° Flo Flat Head. + 1mm oversize
F0117	I	26.5mm	3.98mm	88mm	1mm	14° Flo Flat Head. Stock size
F0118	I	27.5mm	3.98mm	88mm	1mm	21° Flo Dish Head. Dble seat. + 1mm oversize
HONDA CBR 900RR (1993/1999)						
F0096	E	23.05mm	4.5mm	86.80mm	1.25mm	19° Flo. Stock Size
F0196	E	24.05mm	4.5mm	86.80mm	1.25mm	19° Flo. Oversize
F0063	E	26mm	4.5mm	125mm	BLANK	21° Super Flo-No Groove-No Tip
F0095	I	27.50mm	4.5mm	86.85mm	1.25mm	18° Super Flo. Stock Size
F0195	I	28.50mm	4.5mm	86.85mm	1.25mm	18° Super Flo. Oversize
F0062	I	34mm	4.5mm	125mm	BLANK	19° Super Flo-No Groove-No Tip
HONDA CBR 929R (2001)						
F0177	I	29 mm	4.48 mm	88.92 mm	1.25 mm	20° Flo Dish Head. Stock size
F0178	E	24 mm	4.46 mm	89.50 mm	1.25 mm	20° Flo Dish Head. Stock size
HONDA CBR 1100XX BLACKBIRD (1997/2000)						
F0119	E	27mm	4.96mm	92.68mm	1mm	19° Flo Dish Head. Stock size
F0124	E	28mm	4.96mm	92.68mm	1mm	19° Flo Dish Head. + 1mm oversize
F0125	I	31.93mm	4.98mm	92.2mm	1mm	19° Flo Dish Head. Stock size



Team Fish Suzuki Hayabusa runs 6.90's in the quarter mile.
Uses Ferrea Motorcycle Competition Valves.

MOTORCYCLE COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
HONDA VTX 1800 (2001/2002)						
F0203	E	45 mm	7.97 mm	107.6 mm	2 mm	20° Super Flo. Stock size. 1 valve required.
F0204	E	36 mm	6.59 mm	105.55 mm	2 mm	20° Super Flo. Stock size. 2 valve required.
HONDA XR 250R (1996/1999)						
F0127	E	23.5 mm	4.95 mm	95.63 mm	4.1 mm	30° Flo Dish Head. Stock size.
F0128	E	24.5 mm	4.95 mm	95.63 mm	4.1 mm	30° Flo Dish Head. Stock size. + 1mm over size
F0129	I	28.5 mm	4.97 mm	95.58 mm	4.1 mm	20° Flo Dish Head. Stock size. Stock size.
F0130	I	29.5 mm	4.97 mm	95.58 mm	4.1 mm	20° Flo Dish Head. Stock size. + 1mm over size
HONDA XR 400R (1996/1999) / HONDA TXR 400EX QUAD (1999)						
F0131	E	29 mm	5.45 mm	101 mm	2.9 mm	30° Flo Dish Head. Stock size.
F0132	E	30 mm	5.45 mm	101 mm	2.9 mm	30° Flo Dish Head. Stock size. + 1mm over size
F0133	I	33 mm	5.47 mm	102.64 mm	2.9 mm	20° Flo Dish Head. Stock size.
F0134	I	34 mm	5.47 mm	102.64 mm	2.9 mm	20° Flo Dish Head. + 1mm over size
HONDA XR 500R (1981/1984)						
F0321	E	30.10 mm	6.55 mm	89.90 mm	4.75 mm	29° Flo Dish Head. Stock size
F0322	E	31.10 mm	6.55 mm	89.90 mm	4.75 mm	29° Flo Dish Head. + 1mm oversize
F0323	I	35.00 mm	6.57 mm	91.10 mm	4.75 mm	19° Flo Dish Head. Stock size
F0324	I	36.00 mm	6.57 mm	91.10 mm	4.75mm	19° Flo Dish Head. + 1mm oversize
HONDA XL 600R (1983/1987) / HONDA XR 600R (1985/1999)						
F0135	E	31mm	6.55mm	104.31mm	3mm	29° Flo Dish Head. Stock size
F0136	E	32mm	6.55mm	104.31mm	3mm	29° Flo Dish Head. + 1mm oversize
F0137	I	36mm	6.57mm	105.69mm	5.15mm	19° Flo Dish Head. Stock size
F0138	I	37mm	6.57mm	105.69mm	5.15mm	19° Flo Dish Head. + 1mm oversize
HONDA NX 650 (1988/1989) / HONDA XR 650L (1993/1999)						
F0135	E	31mm	6.55mm	104.31mm	3mm	29° Flo Dish Head. Stock size
F0136	E	32mm	6.55mm	104.31mm	3mm	29° Flo Dish Head. + 1mm oversize
F0137	I	36mm	6.57mm	105.69mm	5.15mm	19° Flo Dish Head. Stock size
F0138	I	37mm	6.57mm	105.69mm	5.15mm	19° Flo Dish Head. + 1mm oversize
KAWASAKI 250 (2004) - MOTOCROSS - (TITANIUM)						
F0412	E	25mm	4.46mm	79.1mm	1.03mm	25° Flo. Stock
F0414	E	26mm	4.46mm	79.1mm	1.03mm	25° Flo. + 1mm oversize
F0411	I	31mm	4.48mm	78.93mm	1.03mm	20° Flo. Stock
F0413	I	32mm	4.48mm	78.93mm	1.03mm	20° Flo. + 1mm oversize
KAWASAKI KFX 250 (2004/2005) - MOTOCROSS						
F0333	E	25mm	4.46mm	79.1mm	1.03mm	25° Flo. Stock
F0334	E	26mm	4.46mm	79.1mm	1.03mm	25° Flo. + 1mm oversize
F0335	I	31mm	4.48mm	78.93mm	1.03mm	20° Flo. Stock
F0336	I	32mm	4.48mm	78.93mm	1.03mm	20° Flo. + 1mm oversize
KAWASAKI NINJA 600 (1984/1995)						
F0020	E	20 mm	5 mm	79.3 mm	2.15 mm	25° Flo
F0021	I	23 mm	5 mm	80.5 mm	2.04 mm	25° Flo
F0067	I	30 mm	5 mm	135 mm		19° Super Flo-No Groove-No Tip
F0065	E/I	36 mm	5 mm	135 mm		19° Super Flo-No Groove-No Tip
KAWASAKI NINJA 900 (1984/1986) / KAWASAKI NINJA 1000 (1986/1987)						
F0018	E	26 mm	5.5 mm	87.17 mm	2.37 mm	25° Flo. Oversize
F0019	I	30.5 mm	5.5 mm	89.15 mm	2.23 mm	25° Flo. Oversize
F0047	I	34 mm	5.5 mm	135 mm	BLANK	19° Super Flo-No Groove-No Tip
KAWASAKI KZ900 (1973/1977) / KAWASAKI KZ1000 (1977/1980)						
F0014	E	31 mm	7 mm	90 mm	5 mm	22° Flo. Oversize
F0004	E	33 mm	7 mm	135 mm	BLANK	22° Flo-No Groove-No Tip
F0345	E	33 mm	7 mm	135 mm	BLANK	22° Flo. Super Alloy. No Groove. No Tip
F0038	E	39 mm	7 mm	135 mm	BLANK	22° Tulip Flo. No Groove. No Tip
F0346	E	39 mm	7 mm	135 mm	BLANK	22° Flo. Super Alloy. No Groove. No Tip
F0015	I	37.5 mm	7 mm	92 mm	5 mm	20° Flo. Oversize

MOTORCYCLE COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
KAWASAKI J MODEL 1000 (1981/1982) / KAWASAKI GPZ1100 (1981/1984)						
F0003	E	32 mm	7 mm	89.3 mm	4.9 mm	22° Flo. Stock Size
F0004	E	33 mm	7 mm	114 mm	BLANK	22° Flo-No Groove-No Tip
F0034	E	36 mm	7 mm	114 mm	BLANK	22° Flo-No Groove-No Tip
F0038	E	39 mm	7 mm	135 mm	BLANK	22° Tulip Flo-No Groove-No Tip
F0001	I	38.5 mm	7 mm	90.5 mm	4.8 mm	20° Flo. Oversize (J model)
F0002	I	42 mm	7 mm	114 mm	BLANK	20° Flo-No Groove-No Tip
F0039	I	46 mm	7 mm	135 mm	BLANK	16° Super Flo-No Groove-No Tip
KAWASAKI ZX6R (1995/1999)						
F0123	E	22.6mm	4mm	98.35mm	1.7mm	19° Flo. Stock Size
F0223	E	23.6mm	4mm	98.35mm	1.7mm	19° Flo. 1 mm Oversize
F0064	E/I	26.5mm	4mm	125mm	BLANK	21° Flo-No Groove-No Tip
F0122	I	27.0mm	4mm	96.90mm	1.7mm	19° Super Flo. Stock Size
F0222	I	28.0mm	4mm	96.90mm	1.7mm	19° Super Flo. 1 mm Oversize
F0232	I	30mm	4mm	135mm	BLANK	21° Super Flo
KAWASAKI ZX7R (1993/1995) / KAWASAKI ZX9R (1994/1997)						
F0098	E	25mm	4.5mm	92.05mm	1mm	19° Flo. Stock Size
F0198	E	26mm	4.5mm	92.05mm	1mm	19° Flo. 1 mm Oversize
F0063	E	26mm	4.5mm	125mm	BLANK	21° Super Flo-No Groove-No Tip
F0097	I	29mm	4.5mm	92.25mm	1mm	18° Super Flo. Stock Size
F0197	I	30mm	4.5mm	92.25mm	1mm	18° Super Flo. 1 mm Oversize
F0062	I	34mm	4.5mm	125mm	BLANK	19° Super Flo-No Groove-No Tip
KAWASAKI ZX7R (1996/1999)						
F0147	E	25mm	4.45mm	94.56mm	1.25mm	12° Flo Flat Head. Stock size
F0148	E	26mm	4.45mm	94.56mm	1.25mm	12° Flo Flat Head. + 1mm oversize
F0149	I	29mm	4.47mm	94.17mm	1.25mm	12° Flo Dish Head. Stock size
F0150	I	30mm	4.47mm	94.17mm	1.25mm	12° Flo Dish Head. + 1mm oversize
KAWASAKI ZX9R (1998/1999)						
F0139	E	26mm	4.45mm	93.03mm	1.25mm	12° Flo Flat Head. Stock size
F0140	E	27mm	4.45mm	93.03mm	1.25mm	12° Flo Flat Head. + 1mm oversize
F0141	I	30mm	4.47mm	92.44mm	1.25mm	12° Flo Dish Head. Stock size
F0142	I	31mm	4.47mm	92.44mm	1.25mm	12° Flo Dish Head. + 1mm oversize
KAWASAKI ZX10 (1988/1990)						
F0100	E	26mm	5mm	88.85mm	1.25mm	19° Flo. Stock Size
F0200	E	27mm	5mm	88.85mm	1.25mm	19° Flo. 1 mm Oversize
F0099	I	30mm	5mm	89.20mm	1.25mm	18° Super Flo. Stock Size
F0067	I	30mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
F0199	I	31mm	5mm	89.20mm	1.25mm	18° Super Flo. 1 mm Oversize
F0065	E/I	36mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
KAWASAKI ZX10 (2004/2005) -BUCKET-						
F0326	E	25.5mm	4.46mm	91.41mm	1.45mm	12° Flo. Dish Head. Stock Size
F0327	I	31mm	4.48mm	90.6mm	1.45mm	12° Flo. Dish Head. Stock Size
KAWASAKI ZX11 (1990/1999)						
F0101	E	27mm	5mm	88.9mm	1.25mm	19° Flo. Stock Size
F0201	E	28mm	5mm	88.9mm	1.25mm	19° Flo. 1 mm Oversize
F0067	I	30mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
F0102	I	31.5mm	5mm	89.25mm	1.25mm	18° Super Flo. Stock Size
F0202	I	32.5mm	5mm	89.25mm	1.25mm	18° Super Flo. 1 mm Oversize
F0065	E/I	36mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip

MOTORCYCLE COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
KAWASAKI ZX12 (2000/2002) -BUCKET-						
F0180	E	28.35mm	4.95mm	98.52mm	1.35mm	12° Flo Dish Head. Stock size
F0179	I	33.39mm	4.97mm	97.80mm	1.35mm	10° Flo Dish Head. Stock Size
F0325	I	34.39mm	4.97mm	97.80mm	1.35mm	19° Super Flo. Dish Head. + 1mm Oversize
KAWASAKI ZX636R (2003/2004)						
F0316	E	22.60mm	3.96mm	87.9mm	1.6mm	19° Flo. Super Alloy
F0315	I	27.00mm	3.98mm	86.70mm	1.6mm	12° Flo. Special Alloy
SUZUKI 250 (2004) - MOTOCROSS - (TITANIUM)						
F0412	E	25mm	4.46mm	79.1mm	1.03mm	25° Flo. Stock
F0414	E	26mm	4.46mm	79.1mm	1.03mm	25° Flo. + 1mm oversize
F0411	I	31mm	4.48mm	78.93mm	1.03mm	20° Flo. Stock
F0413	I	32mm	4.48mm	78.93mm	1.03mm	20° Flo. + 1mm oversize
SUZUKI RMZ 250 (2004/2005) - MOTOCROSS						
F0333	E	25mm	4.46mm	79.1mm	1.03mm	25° Flo. Stock
F0334	E	26mm	4.46mm	79.1mm	1.03mm	25° Flo. + 1mm oversize
F0335	I	31mm	4.48mm	78.93mm	1.03mm	20° Flo. Stock
F0336	I	32mm	4.48mm	78.93mm	1.03mm	20° Flo. + 1mm oversize
SUZUKI DRZ 400 (2002-2003)						
F0217	E	29 mm	4.96 mm	81.75 mm	1.70 mm	22° Flo. Stock size
F0218	E	30 mm	4.96 mm	81.75 mm	1.70 mm	22° Flo. + 1 mm oversize
F0215	I	36 mm	4.98 mm	82.65 mm	1.70 mm	20° Super Flo. Stock size
F0216	I	37 mm	4.98 mm	82.65 mm	1.70 mm	20° Super Flo. + 1 mm oversize
SUZUKI 600 (1997/1998)						
F0246	E	22mm	4.46mm	97.38mm	1.7mm	19° Flo. Stock Size
F0236	E	23mm	4.46mm	97.38mm	1.7mm	21° Flo. 1mm Oversize
F0247	I	26.5mm	4.48mm	96.20mm	1.7mm	19° Super Flo. Stock Size
F0237	I	27.5mm	4.48mm	96.20mm	1.7mm	19° Super Flo. 1mm Oversize
SUZUKI GSXR 600 (2001-2002)						
F0290	E	22mm	3.97mm	91.2mm	1.8mm	23° Flo Dish Head. Stock Size
F0291	E	23mm	3.97mm	91.2mm	1.8mm	23° Flo Dish Head. +1mm Oversize
F0288	I	27.2mm	3.98mm	90.2mm	1.8mm	20° Flo Dish Head. Stock Size
F0289	I	28.2mm	3.98mm	90.2mm	1.8mm	20° Flo Dish Head. +1mm Oversize
SUZUKI GSXR 750 (1986/1987)						
F0022	E	24mm	5mm	87.75mm	2.75mm	21° Flo. Stock Size
F0023	E	25mm	5mm	87.75mm	2.75mm	21° Flo. 1 mm Oversize
F0024	I	27mm	5mm	88.25mm	2.85mm	19° Super Flo. Stock Size
F0025	I	28.5mm	5mm	88.25mm	2.85mm	19° Super Flo. 1.5 mm Oversize
F0067	I	30mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip



Larry "Spiderman" McBride makes the fastest 1/4 mile motorcycle pass in history with a 5.799 second run. The 8 time Top Fuel Motorcycle champion relies on Ferrea Super Alloy valves to keep his engine under control.

MOTORCYCLE COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
SUZUKI GSXR 750 (1988/1989)						
F0022	E	24mm	5mm	87.75mm	2.75mm	21° Flo. Stock Size
F0055	E	26mm	5mm	87.75mm	3mm	21° Flo. Oversize
F0024	I	27mm	5mm	88.25mm	2.85mm	19° Super Flo. Stock Size
F0025	I	28.5mm	5mm	88.25mm	2.85mm	19° Super Flo. Stock Size
F0054	I	30mm	5mm	88.2mm	3mm	19° Super Flo. Oversize
F0067	I	30mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
F0065	E/I	36mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
SUZUKI GSXR 750 (1990)						
F0022	E	24mm	5mm	87.75mm	2.75mm	21° Flo. Stock Size
F0023	E	25mm	5mm	87.75mm	2.75mm	21° Flo. Oversize
F0055	E	26mm	5mm	87.75mm	3mm	21° Flo. Oversize
F0024	I	27mm	5mm	88.25mm	2.85mm	19° Super Flo. Stock Size
F0025	I	28.5mm	5mm	88.25mm	2.85mm	19° Super Flo. Oversize
F0054	I	30mm	5mm	88.2mm	3mm	19° Super Flo. Oversize
F0067	I	30mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
F0065	E/I	36mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
SUZUKI GSXR 750 (1991/1992)						
F0104	E	24mm	5mm	90mm	1.7mm	19° Flo. Stock Size
F0103	I	27mm	5mm	89.85mm	1.7mm	18° Super Flo. Stock Size
F0067	I	30mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
SUZUKI GSXR 750 (1993/1995) -WATERCOOLED-						
F0121	E	24mm	4.45mm	96.50mm	1.7mm	19° Flo Flat Head. Stock Size
F0221	E	25mm	4.45mm	96.50mm	1.7mm	19° Flo. Oversize
F0063	E	26mm	4.5mm	125mm	BLANK	21° Super Flo-No Groove-No Tip
F0120	I	27mm	4.45mm	96.50mm	1.7mm	19° Super Flo Flat Head. Stock Size
F0220	I	28mm	4.45mm	96.50mm	1.7mm	19° Super Flo. Oversize
F0062	I	34mm	4.5mm	125mm	BLANK	19° Super Flo-No Groove-No Tip
SUZUKI GSXR 750R -SRAD- (1996/1999)						
F0121	E	24mm	4.45mm	96.5mm	1.7mm	19° Flo Dish Head. Stock size
F0221	E	25mm	4.45mm	96.5mm	1.7mm	19° Flo Flat Head. + 1mm oversize
F0258	I	29mm	4.45mm	96.5mm	1.7mm	19° Super Flo Dish Head. Stock size
F0259	I	30mm	4.45mm	96.5mm	1.7mm	19° Super Flo Dish Head. + 1mm oversize
SUZUKI GSXR 750 (2000)						
F0273	E	24mm	3.96mm	95.67mm	1.7mm	14° Flo Dish Head. Stock size
F0274	E	25mm	3.96mm	95.67mm	1.7mm	14° Flo Dish Head. + 1mm oversize
F0271	I	29mm	3.98mm	95.4mm	1.7mm	14° Flo Dish Head. Stock size
F0272	I	30mm	3.98mm	95.4mm	1.7mm	14° Flo Dish Head. + 1mm oversize
SUZUKI GSXR 750 (TITANIUM) -ROAD RACE-						
F0088	E	24mm	4.5mm	96.4mm	1.6mm	15° Flo
F0087	I	29mm	4.5mm	96.3mm	1.6mm	15° Flo
SUZUKI SV 650 (1999/2002)						
F0297	E	25.5mm	4.47mm	86.2mm	1.7mm	22° Flo Dish Head. Stock Size
F0298	E	26.5mm	4.47mm	86.2mm	1.7mm	22° Flo Dish Head. +1mm Oversize

Sebastian Domingo's NLR Turbo Prostreet Bike powered by a Cooper Performance built turbo engine that exclusively uses Ferrea valves.



MOTORCYCLE COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
SUZUKI SV 650 (1999/2002)						
F0295	I	31mm	4.48mm	94.8mm	1.7mm	20° Flo Dish Head. Stock Size
F0296	I	32mm	4.48mm	94.8mm	1.7mm	20° Flo Dish Head. +1mm Oversize
SUZUKI GSXR 1000 (2001-2002)						
F0273	E	24mm	3.96mm	95.67mm	1.7mm	19° Flo Dish Head. Stock Size
F0274	E	25mm	3.96mm	95.67mm	1.7mm	19° Flo Dish Head. +1mm Oversize
F0271	I	29mm	3.98mm	95.4mm	1.7mm	19° Flo Dish Head. Stock Size
F0272	I	30mm	3.98mm	95.4mm	1.7mm	19° Flo Dish Head. +1mm Oversize
SUZUKI TL 1000 (1998/1999)						
F0249	E	33mm	5.46mm	89.56mm	1.7mm	19° Flo. Stock Size
F0239	E	34mm	5.46mm	89.56mm	1.7mm	19° Flo. 1mm Oversize
F0250	I	40mm	5.48mm	99.50mm	1.7mm	19° Super Flo. Stock Size
F0240	I	41mm	5.48mm	99.50mm	1.7mm	19° Super Flo. 1mm Oversize
SUZUKI GSXR 1100 (1986/1990) -ADJUST. ROCKERS-						
F0036	E	26mm	5mm	85.3mm	2.8mm	21° Flo. Oversize
F0037	I	30mm	5mm	85.9mm	2.8mm	19° Super Flo. Oversize
F0067	I	30mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
F0068	I	31.5mm	5mm	85.90mm	2.8mm	19° Super Flo. Oversize
F0065	E/I	36mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
SUZUKI GSXR 1100 (1991/1992) -SHIM STYLE-						
F0106	E	25mm	5mm	87.20mm	1.7mm	19° Flo. Stock Size
F0206	E	26mm	5mm	87.20mm	1.7mm	19° Flo. Oversize
F0105	I	28.5mm	5mm	87.90mm	1.7mm	19° Super Flo. Stock Size
F0205	I	31mm	5mm	87.90mm	1.7mm	19° Super Flo. Oversize
F0067	I	30mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
F0065	E/I	36mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
SUZUKI GSXR 1100 (1993/1998) -WATERCOOLED-						
F0107	E	27mm	4.46mm	94.5mm	1.7mm	19° Flo. Stock Size
F0207	E	28mm	4.46mm	94.5mm	1.7mm	19° Flo. Oversize
F0108	I	31mm	4.46mm	94.8mm	1.7mm	19° Super Flo. Stock Size
F0208	I	32mm	4.46mm	94.8mm	1.7mm	19° Super Flo. Oversize
F0062	I	34mm	4.5mm	125mm	BLANK	19° Super Flo-No Groove-No Tip
SUZUKI GS 1100 (1980/1983)						
SUZUKI GS 1150 (1984/1986)						
F0007	E	24mm	5.5mm	85.9mm	4.10mm	21° Super Flo. Stock Size
F0008	E	26mm	5.5mm	85.9mm	4.10mm	21° Super Flo. Oversize
F0228	E	30mm	5.5mm	87.52mm	4.10mm	19° Flo-Top Fuel-Super Alloy
F0328	E	30mm	5.5mm	87.52mm	4.10mm	19° Top Fuel. Super Alloy
F0238	E	30mm	5.5mm	110mm	BLANK	19° Top Fuel. Super Alloy
F0005	I	28.5mm	5.5mm	86.52mm	4.10mm	19° Super Flo. Stock Size
F0006	I	31mm	5.5mm	86.52mm	4.10mm	19° Flo. Oversize
F0047	I	34mm	5.5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
SUZUKI GSX 1300R -HAYABUSA- (1999/2000)						
F0151	E	27.5mm	4.96mm	94.84mm	1.7mm	20° Flo Dish Head. Stock size
F0152	E	28.5mm	4.96mm	94.84mm	1.7mm	20° Flo Dish Head. + 1mm oversize
F0153	I	33mm	4.98mm	95.03mm	1.7mm	20° Flo Dish Head. Stock size
F0154	I	34mm	4.98mm	95.03mm	1.7mm	20° Flo Dish Head. + 1mm oversize

MOTORCYCLE COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
YAMAHA YFM 80 - RAPTOR (2002-2004) - MOTOCROSS-						
F0225	E	20.00mm	4.97mm	64.75mm	4.00mm	25° Flo. Radial Groove
F0224	I	23.00mm	4.98mm	65.35mm	3.95mm	25° Flo. Radial Groove
YAMAHA YZF YZ 400F (1999) -5 VALVE ENGINE-						
F0165	E	27.96mm	4.95mm	82.02mm	1.7mm	25° Flo Dish Head. Stock size. 2 Valves required
F0166	E	28.96mm	4.95mm	82.02mm	1.7mm	25° Flo Dish Head. +1mm o/size. 2 Valves required
F0167	I	26.96mm	4.48mm	83.28mm	1.7mm	15° Flo Dish Head. Stock size. 1 Valve required
F0169	I	26.99mm	4.48mm	84.28mm	1.7mm	15° Flo Dish Head. Stock size. 2 Valves required
F0168	I	27.96mm	4.48mm	83.28mm	1.7mm	15° Flo Dish Head. +1mm o/size. 1 Valve required
F0170	I	27.99mm	4.48mm	84.28mm	1.7mm	15° Flo Dish Head. +1mm o/size. 2 Valves required
YAMAHA FZR 600R (1989/1999)						
YAMAHA YZF 600R (1998)						
F0110	E	21mm	4.5mm	87.7mm	1.7mm	19° Flo. Stock Size
F0063	E	26mm	4.5mm	125mm	BLANK	21° Super Flo-No Groove-No Tip
F0109	I	24mm	4.5mm	87.5mm	1.7mm	18° Super Flo. Stock Size
YAMAHA YZF 600R6 (1999/2000)						
F0155	E	22mm	3.96mm	94.09mm	1.7mm	25° Flo Flat Head. Stock size
F0156	E	23mm	3.96mm	94.09mm	1.7mm	25° Flo Flat Head. + 1mm oversize
F0157	I	24.95mm	3.98mm	94.25mm	1.7mm	20° Flo Dish Head. Stock size
F0158	I	25.95mm	3.98mm	94.25mm	1.7mm	20° Flo Dish Head. + 1mm oversize
YAMAHA YFM 660 - RAPTOR (2000/2003)						
F0181	I	30mm	5.97mm	100.7mm	4.8mm	19° Flo Dish Head. Stock size. 3 Valves required
F0185	I	31 mm	5.97 mm	100.7 mm	4.8 mm	19° S.Flo Dish Head.+1 mm o/size. 3 Valves required
F0182	E	32mm	5.95mm	92.70mm	4.8mm	25° Flo Dish Head. Stock size. 2 Valves required
F0186	E	33 mm	5.95 mm	92.7 mm	4.8 mm	25° Flo Dish Head. +1 mm o/size. 2 Valves required
YAMAHA 700R - GRIZZLY / RAPTOR / RHINO (2006/2009) - 4 VALVE ENGINE -						
F0341	E	32mm	5.96mm	96.18mm	4.3mm	21° Flo. Radial Groove
F0342	E	33mm	5.96mm	96.18mm	4.3mm	21° Flo. Radial Groove. + 1mm oversize
F0347	E	34mm	5.96mm	96.18mm	4.3mm	21° Flo. Radial Groove. + 2mm oversize
F0343	I	38mm	5.97mm	102.3mm	4.5mm	19° S Flo. Radial Groove.
F0344	I	39mm	5.97mm	102.3mm	4.5mm	19° S Flo. Radial Groove. + 1 mm oversize
F0348	I	40mm	5.97mm	102.3mm	4.5mm	19° S Flo. Radial Groove. + 2 mm oversize
YAMAHA FZR 1000 (1989/1995) -5 VALVE ENGINE-						
F0111	I	23.5mm	4.5mm	90.5mm	1.7mm	18° Super Flo - 1 Valve required. Stock Size
F0112	I	23.55mm	4.5mm	92mm	1.7mm	18° Super Flo - 2 Valves required. Stock Size
F0114	E	25.05mm	4.5mm	90.3mm	1.7mm	19° Flo - 2 Valves required. Stock Size
F0063	E	26mm	4.5mm	125mm	BLANK	21° Super Flo-No Groove-No Tip



Florida Atlantic University's Formula SAE entry competing in the Michigan 2008 competition. FAU achieve great success in the overall competition, in which 120 other schools participated.

MOTORCYCLE COMPETITION VALVES

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
YAMAHA YZF 1000R1 (1998/2000) -5 VALVE ENG. -						
F0159	E	24.45mm	4.46mm	89.16mm	1.7mm	24° Flo Dish Head. Stock size. 2 Valves required
F0160	E	25.45mm	4.46mm	89.16mm	1.7mm	24° Flo Dish Head. +1mm o/size. 2 Valves required
F0161	I	22.95mm	3.97mm	91.94mm	1.7mm	14° Flo Dish Head. Stock size. 2 Valves required
F0162	I	23.95mm	3.97mm	91.94mm	1.7mm	14° Flo Dish Head. +1mm o/size. 2 Valves required
F0163	I	23mm	3.97mm	90.65mm	1.7mm	14° Flo Dish Head. Stock size. 1 Valve required
F0164	I	24mm	3.97mm	90.65mm	1.7mm	14° Flo Dish Head. +1mm o/size. 1 Valve required
YAMAHA FJ 1100 (1984/1985)						
YAMAHA FJ 1200 (1986/1993)						
F0016	E	26mm	5.5mm	93.81mm	4.03mm	25° Super Flo
F0017	I	30.5mm	5.5mm	93.98mm	3.58mm	25° Super Flo
F0047	I	34mm	5.5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
YAMAHA XV 17PCP - WARRIOR - & XV 1600 - ROAD STAR - (2000/2002)						
F0276	E	28mm	5.97mm	95.95mm	3.8mm	25° Flo Dish Head. Stock size
F0277	E	29mm	5.97mm	95.95mm	3.8mm	25° Flo Dish Head. +1mm o/size
F0282	E	30mm	5.97mm	95.95mm	3.8mm	25° Flo Dish Head. +2mm o/size
F0281	E	31mm	5.97mm	95.95mm	3.8mm	25° Flo Dish Head. +3mm o/size
F0278	I	34mm	5.98mm	97.95mm	3.8mm	20° Super Flo Dish Head. Stock size
F0279	I	35mm	5.98mm	97.95mm	3.8mm	20° Super Flo Dish Head. +1mm o/size
F0280	I	36mm	5.98mm	97.95mm	3.8mm	20° Super Flo Dish Head. +2mm o/size



Riva Motorsports Sea Doo RXP supercharged ECU with Ferrea upgrade vaetrain.



Riva Motorsports & Supercharged Sea Doo RXP. Uses Ferrea vaetrain components.

MOTORCYCLE COMPETITION VALVES - BLANKS

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BLANKS 4 - 5 MM ("REQUIRE LASH CAPS OR HARD TIPS")						
F0066	E	23mm	4mm	125mm	BLANK	21° Flo-No Groove-No Tip
F0064	E/I	26.5mm	4mm	125mm	BLANK	21° Flo-No Groove-No Tip
F0232	I	30mm	4mm	135mm	BLANK	21° Super Flo
F0173	E	28.5mm	4.46mm	120mm	BLANK	12° Flo-No Groove-No Tip
F0171	I	31mm	4.48mm	120mm	BLANK	12° Flo. Bimetallic
F0172	I	31mm	4.48mm	120mm	BLANK	15° Flo. Bimetallic
F0063	E	26mm	4.5mm	125mm	BLANK	21° Flo-No Groove-No Tip
F0062	I	34mm	4.5mm	125mm	BLANK	19° Flo-No Groove-No Tip
F0183	E	29mm	4.95mm	130mm	BLANK	12° Flo
F0337	E	27mm	4.97mm	135mm	BLANK	19° Flo. Special Alloy. Bi-Metallic
F0069	E	34mm	4.97mm	140mm	BLANK	19° Flo. Super Alloy
F0184	I	34mm	4.97mm	130mm	BLANK	12° Flo
F0338	I	32.1mm	4.98mm	135mm	BLANK	19° Super Flo. Dish Head
BLANKS 5 - 6 MM ("REQUIRE LASH CAPS OR HARD TIPS")						
F0067	I	30mm	5mm	135mm	BLANK	19° Flo-No Groove-No Tip
F0065	E/I	38mm	5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
F0242	E	34mm	5.48mm	135mm	BLANK	15° Flat Head
F1943P	E	32mm	5.48mm	140mm	BLANK	22° Flo. Super Alloy Turbo Applications
F1459P	E	32mm	5.48mm	135mm	BLANK	22° Flo. Super Alloy
F1457P	I	37mm	5.48mm	135mm	BLANK	20° Super Flo
F0241	I	41mm	5.48mm	135mm	BLANK	14° Flat Head
F0231	E	30mm	5.5mm	135mm	BLANK	19° Dish Head. Top Fuel. Super Alloy
F0238	E	32mm	5.5mm	135mm	BLANK	22° Flo-No Groove-No Tip
F0047	I	34mm	5.5mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
F0233	I	36mm	5.5mm	135mm	BLANK	22° Super Flo. HONDA
F0253	I	42mm	5.5mm	135mm	BLANK	19° Super Flo
F1492P	E	34mm	5.95mm	140mm	BLANK	21° Tulip Flo. Bimetallic Super Alloy
F1942P	E	34mm	5.95mm	140mm	BLANK	21° Flo. Super Alloy Turbo Applications
F0176	E	36mm	5.95mm	135mm	BLANK	21° Flo
F0175	E	36mm	5.96mm	135mm	BLANK	21° Super Flo-No Groove-No Tip
F1580P	I	36mm	5.97mm	145mm	BLANK	12° Super Flo-No Groove-No Tip. Special Alloy
F1581P	I	38mm	5.97mm	145mm	BLANK	15° Super Flo-No Groove-No Tip. Special Alloy
F0174	I	42mm	5.97mm	135mm	BLANK	19° Super Flo-No Groove-No Tip
F0293	I	46mm	5.97mm	145mm	BLANK	19° Super Flo. Special Alloy
F1582P	I	46mm	5.97mm	145mm	BLANK	12° Super Flo-No Groove-No Tip
BLANKS 6 - 7 MM ("REQUIRE LASH CAPS OR HARD TIPS")						
F0060	I	40mm	6mm	145mm	BLANK	19° Super Flo-No Groove-No Tip
F1595P	E	31mm	6.02mm	145mm	BLANK	25° Flo Special Alloy
F1596P	I	36mm	6.03mm	145mm	BLANK	19° Super Flo
F1455P	E	32.5mm	6.55mm	135mm	BLANK	22° Flo. Super Alloy
F1941P	E	32.5mm	6.55mm	140mm	BLANK	22° Flo. Super Alloy Turbo Applications
F1453P	E	36mm	6.57mm	135mm	BLANK	20° Super Flo
F1438P	I	38mm	6.58mm	135mm	BLANK	20° Super Flo
F1585P	E	34mm	6.95mm	145mm	BLANK	15° Flo-No Groove-No Tip. Special Alloy
F1586P	I	39mm	6.97mm	145mm	BLANK	12° Super Flo-No Groove-No Tip. Special Alloy
F1419P	E	34.5mm	6.98mm	135mm	BLANK	30° Flo
F1418P	I	40mm	6.98mm	135mm	BLANK	20° Super Flo
F0077	E	1.750	.275	5.710	BLANK	24° Tulip Flo. Special Alloy. Harley Davidson
F0078	I	2.100	.275	5.710	BLANK	24° Tulip Flo. Harley Davidson

MOTORCYCLE COMPETITION VALVES - BLANKS

Part N°	Type	Head Diam.	Stem Diam.	Overall Length	Tip Length	References
BLANKS 7 - 8 MM ("REQUIRE LASH CAPS OR HARD TIPS")						
F0004	E	33mm	7mm	135mm	BLANK	22° Flo. No Groove. No Tip
F0345	E	33mm	7mm	145mm	BLANK	22° Flo. Super Alloy. No Groove. No Tip
F0034	E	36mm	7mm	135mm	BLANK	22° Flo. No Groove. No Tip
F0038	E	39mm	7mm	135mm	BLANK	22° Tulip Flo. No Groove. No Tip
F0346	E	39mm	7mm	145mm	BLANK	22° Flo. Super Alloy. No Groove. No Tip
F0303B	E	41 mm	7 mm	117 mm	2.5 mm	25° Flo. Over Size. Triple Groove
F0002	I	42mm	7mm	135mm	BLANK	20° Flo. No Groove. No Tip
F0039	I	46mm	7mm	145mm	BLANK	12° Flo. No Groove. No Tip
F0301B	I	46 mm	7 mm	114.8 mm	2.5 mm	25° Super Flo. Over Size. Triple Groove
F2162P	E	32mm	7.09mm	145mm	BLANK	R. 12mm Flo. Flat Head
F2163P	I	38mm	7.10mm	145mm	BLANK	19° Super Flo. Flat Head
F0230	E	41mm	7.96mm	135mm	BLANK	20° Super Flo. DUCATI
F0029	E	1.750	.308	5.118	BLANK	24° Flo. No Groove. No Tip
F0229	I	47mm	7.98mm	135mm	BLANK	20° Super Flo. DUCATI
F1182P	E	41mm	8mm	135mm	BLANK	15° Finished. No Groove
F1442P	I	44mm	8mm	110mm	8.5mm	10°
F1192P	I	48mm	8mm	135mm	BLANK	26° Finished. No Groove

MOTORCYCLE COMPETITION VALVES - BLANKS



NRHS V-Twin sets 4 new records at Bonneville Salt Flats in 2007 using Ferrea Valve-train components.

MOTORCYCLE BEEHIVE VALVE SPRINGS

Ferrea Racing Components introduces our new PAC Alloy Beehive Valve Spring series for Motorcycle applications. These single Beehive form valve springs are designed and optimized to reduce valvetrain harmonics, provide greater spring stability, and reduce spring and retainer masses for increase performance and durability in today's harsh engines environments.

PAC Alloy Beehive Valve Springs are developed from premium grade super-clean **PAC Alloy** material designed for racing applications. These valve springs are crafted using the latest technology in manufacturing and processing techniques through the use of state-of-the-art equipment unmatched throughout the industry.

Our springs are progressively coiled with tighter tolerances, heat treated, stress relieved, and multistage shot peen for extended life and durability. Strict quality control procedures and cycle testing ensures consistency from batch-to-batch.

We have expanded our valve spring line offering **PAC Alloy Beehive Ovate (Oval/Multi-Radius)** wire shape designed to withstand aggressive endurance requirements. Key advantages in using an ovate wire shape are better heat dissipation for longer life, and valvetrain stresses are more effectively distributed over the entire wire shape extending spring life and enabling more horsepower. They have the highest level of fatigue resistance available, while minimizing load loss for today's aggressive valvetrain combinations.



Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
HARLEY DAVIDSON - TWIN CAM (2005-2008)								
S2019	Single Beehive .PAC Alloy Drag Racing applications	1.080 1.445	.650 1.000	195 lbs @1.810	380 lbs @1.310	370 lbs	1.185	.600
	This Spring requires Ferrea Titanium Retainer # E12028 and Ferrea Spring Seat Locator # SL1095 or Factory supplied Seat Locator							
S2020	Single Beehive Ovate. PAC Alloy Nitrided Endurance applications	1.100 1.445	.650 1.000	190 lbs @1.810	380 lbs @1.310	370 lbs	1.165	.610
	This Spring requires Ferrea Titanium Retainer # E12028 and Ferrea Spring Seat Locator # SL1095 or Factory supplied Seat Locator							

MOTORCYCLE VALVE SPRINGS



We expanded our **Springs** offering to include Harley Davidson engines, providing the best possible **valve-train** combination for motorcycle racing.

Ferrea's motorcycle valve springs are made of premium grade chrome-silicon alloys. They are heat-treated and stress-relieved to increase the spring's life. Strict quality control procedures and cycle testing ensure consistency from batch to batch.

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
BUELL XB9 (2002 - 2003)								
S10065	Outer w/Damper Special Alloy Hi-Performance Spring	1.490	1.076	130 lbs @1.700	325 lbs @1.200	390 lbs	1.020	.650
This Spring requires Ferrea Titanium Retainer # E11040 and Factory supplied Spring Seat Locator								
HARLEY DAVIDSON - EVOLUTION (1984-1998)								
S10052	Dual w/Damper - Chro Silicon Hydraulic & Solid	1.005 1.530	.730 1.110	135 lbs @1.875	395 lbs 1.225	400 lbs	1.160	.650
This Spring requires Ferrea Titanium Retainer #E11029 and Ferrea Spring Seat Locator #SL1024 (Discard OEM Spring Seat Locator)								
S10053	Dual w/Damper Chrome Silicon-Roller	1.025 1.550	.740 1.135	215 lbs @1.950	550 lbs 1.270	460 lbs	1.170	.700
This Spring requires Ferrea Titanium Retainer #E11028 and Ferrea Spring Seat Locator #SL1024 (Discard OEM Spring Seat Locator)								
S10054	Dual w/Damper Chrome Silicon-Roller	1.005 1.440	.725 1.065	175 lbs @1.810	350 lbs 1.260	320 lbs	1.160	.600
This Spring requires Ferrea Titanium Retainer #E11027 and Ferrea Spring Seat Locator #SL1024 (Discard OEM Spring Seat Locator)								
HARLEY DAVIDSON - VRSCA V ROD (2002-2003)								
S10096	Dual Spring Special Alloy	.819 1.103	.625 .819	80 lbs @1.338	205 lbs @.945	317 lbs	.790	.550
This Spring requires Ferrea Titanium Retainer # E11041 and Factory supplied Spring Seat Locator								
HONDA CRF 250R (2004-2007) - MOTOCROSS -								
S10105	Single Spring - Special Alloy Endurance Application (EXHAUST - 2 pieces)	18.10 mm	11.50 mm	50 lbs @39.8mm	165 lbs @29.8mm	292 lbs	27.5 mm	10 mm
This spring requires Ferrea Titanium Retainers #E11071 (EXH) and Ferrea Spring Seat Locators #SL1058 (EXH) Spring pressures are measured with Ferrea Spring Seat Locator #SL1058 (EXH). (Discard OEM Spring Seat Locator)								
S10106	Single Spring - Special Alloy Endurance Application (INTAKE - 2 pieces)	18.50 mm	13.0 mm	40 lbs @35.13mm	95 lbs @25.13mm	139 lbs	23 mm	10 mm
This spring requires Ferrea Titanium Retainers #E11072 (INT) and Ferrea Spring Seat Locators #SL1059 (INT) Spring pressures are measured with Ferrea Spring Seat Locator #SL1059 (INT). (Discard OEM Spring Seat Locator)								
TECH NOTE: Ferrea Pro Springs are designed with progressive wound coils. Assemble <i>stacked coils</i> end of spring at the <i>bottom</i> , on top of spring seat locator.								
HONDA CRF 250R (2008) - MOTOCROSS -								
S10105	Single Spring - Special Alloy Endurance Application (EXHAUST - 2 pieces)	18.10 mm	11.50 mm	50 lbs @39.8mm	165 lbs @29.8mm	292 lbs	27.5 mm	10 mm
This spring requires Ferrea Titanium Retainers #E11086 (EXH) and Ferrea Spring Seat Locators #SL1058 (EXH) Spring pressures are measured with Ferrea Spring Seat Locator #SL1058 (EXH). (Discard OEM Spring Seat Locator)								

MOTORCYCLE VALVE SPRINGS

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
HONDA CRF 250R (2008) - MOTOCROSS -								
S10106	Single Spring - Special Alloy Endurance Application (INTAKE - 2 pieces)	18.50 mm	13.0 mm	43 lbs @34.63mm	98 lbs @24.63mm	139 lbs	23 mm	9.5 mm
<p>This spring requires Ferrea Titanium Retainers #E11072 (INT) and Ferrea Spring Seat Locators #SL1059 (INT) Spring pressures are measured with Ferrea Spring Seat Locator #SL1059 (INT). (Discard OEM Spring Seat Locator) TECH NOTE: Ferrea Pro Springs are designed with progressive wound coils. Assemble <i>stacked coils</i> end of spring at the <i>bottom</i>, on top of spring seat locator.</p>								
HONDA CRF 450 (2002-2006) - MOTOCROSS -								
S10085	Single Spring Special Alloy Endurance Application	21.50 mm	15.10 mm	75 lbs @37 mm	155 lbs @ 27 mm	203 lbs	25 mm	10 mm
<p>This Spring requires Ferrea Titanium Retainers #E11054 (EXH) and #E11055 (INT) and Ferrea Spring Seat Locators #SL1043 (EXH) and #SL1042 (INT) Spring pressures are measured with Ferrea Spring Seat Locator # SL1043 (EXH) (Discard OEM Spring Seat Locator)</p>								
HONDA TRX 450 (2002-2004)								
S10117	Single Spring Special Alloy Endurance Application	21.50 mm	15.10 mm	75 lbs @37 mm	155 lbs @ 27 mm	203 lbs	25 mm	10 mm
<p>This Spring requires Ferrea Titanium Retainers #E11078 (EXH) and #E11055 (INT) and Ferrea Spring Seat Locators #SL1043 (EXH) and #SL1042 (INT) (Discard OEM Spring Seat Locator) Spring pressures are measured with Ferrea Spring Seat Locator # SL1043 (EXH)</p>								
PRO STOCK MOTORCYCLE								
S10063	Dual Spring Special Alloy Maximum Retainer step .075	.890 1.215	.650 .890	150 lbs @1.400	450 lbs @.750	462 lbs	.710	.650
YAMAHA 700R - GRIZZLY / RAPTOR / RHINO (2006-2009) - 4 VALVES ENGINE -								
S10116	Dual Spring Special Alloy Endurance Application	18.82 mm 25.19 mm	13.84 mm 18.82 mm	55 lbs @37 mm	155 lbs @27 mm	253 lbs	21 mm	14.5 mm
<p>This Spring requires Ferrea Titanium Retainers #E11085 and Ferrea Spring Seat Locators #SL1093 (Discard OEM Spring Seat Locator) TECH NOTE: To properly install Spring Seat Locator you must first remove the Valve Stem Seal.</p>								



These racing Quads tuned and built by Racers Edge ATV, utilize complete Ferrea Racing Valve-train.

MOTORCYCLE TITANIUM RETAINERS

Part N°	Valve Stem Size	Diam. (A)	Out Step Diam. (B)	Inn Step Diam. (C)	References
BUELL XB9 (2002 - 2003)					
E11040	.276	1.440	1.080	-	Single Spring-7 deg Pro CNC- Ferrea Racing Springs #S10065
HARLEY DAVIDSON - EVOLUTION (1984-1998)					
E11027	ALL	1.440	1.065	.700	Dble Spring-10 deg Pro CNC Ferrea Racing Springs #S10054
E11028	ALL	1.500	1.140	.744	Dble Spring-10 deg Pro CNC Ferrea Racing Springs #S10053
E11029	ALL	1.500	1.115	.725	Dble Spring-10 deg Pro CNC Ferrea Racing Springs #S10052
HARLEY DAVIDSON - TWIN CAM (2005-2008)					
E12028	.2754	1.050	.640	-	Beehive Spring - 7 deg Pro CNC Ferrea Racing Springs #S2019 & #S2020 Ferrea Valve Lock # K10090
HARLEY DAVIDSON - VRSCA V ROD (2002-2003)					
E11041	6 mm	26.16 mm	20.83 mm	-	Dble Spring-7 deg Pro CNC- Ferrea Racing Springs #S10096
E11067	6 mm	26.16 mm	20.83 mm	-	Dble Spring-7 deg Pro CNC- Ferrea Racing Springs #S10096 and Ferrea Valve Lock #K10075
HONDA CRF 250R (2004/2007) - MOTOCROSS -					
E11071	4.97 mm	16.25 mm	11.55 mm	-	EXH (2 pieces) Single Spring-7 deg Pro CNC Ferrea Racing Springs #S10105
E11072	4.98 mm	17.25 mm	13.15 mm	-	INT (2 pieces) Single Spring-7 deg Pro CNC Ferrea Racing Springs #S10106
HONDA CRF 250R (2008) - MOTOCROSS -					
E11086	4.47 mm	16.25 mm	11.81 mm	-	EXH (2 pieces). Single Spring-7 deg Pro CNC Ferrea Racing Spring #S10105
E11072	4.98 mm	17.25 mm	13.15 mm	-	INT (2 pieces). Single Spring-7 deg Pro CNC Ferrea Racing Spring #S10106
HONDA CRF 450 (2002-2006) - MOTOCROSS -					
E11054	4.965 mm	20.00 mm	15.14 mm	-	EXH (2 pieces). Single Spring-7 deg Pro CNC- Ferrea Racing Springs # S10085
E11055	5.49 mm	20.00 mm	15.14 mm	-	INT (2 pieces). Single Spring-7 deg Pro CNC- Ferrea Racing Springs # S10085
HONDA TRX 450 (2002-2004)					
E11054	5.49 mm	20.06 mm	15.14 mm	-	EXH (2 pieces). Single Spring-7 deg Pro CNC- Ferrea Racing Springs # S10085
E11055	5.49 mm	20.00 mm	15.14 mm	-	INT (2 pieces). Single Spring-7 deg Pro CNC- Ferrea Racing Springs # S10085
YAMAHA 700R - GRIZZLY / RAPTOR / RHINO (2006-2009) - 4 VALVES ENGINE -					
E11085	6 mm	23.11 mm	18.41 mm	13.33 mm	Double Spring - 6 deg Pro CNC retainer Ferea Racing Spring # S10116.

MOTORCYCLE STEEL VALVE LOCKS

Part N°	Specifications
HARLEY DAVIDSON - EVOLUTION (1984-1998)	
K10041	5/16 Std. Recess for lash caps. "10 Deg"
HARLEY DAVIDSON - TWIN CAM (2005-2008)	
K10090	0.2754. Single Radial Groove. 7 Deg. Use with Ferrea Titanium Retainer # E12028
HARLEY DAVIDSON - VRSCA V ROD (2002-2003)	
K10075	6 mm. Radial Groove

MOTORCYCLE SPRING SEAT LOCATORS

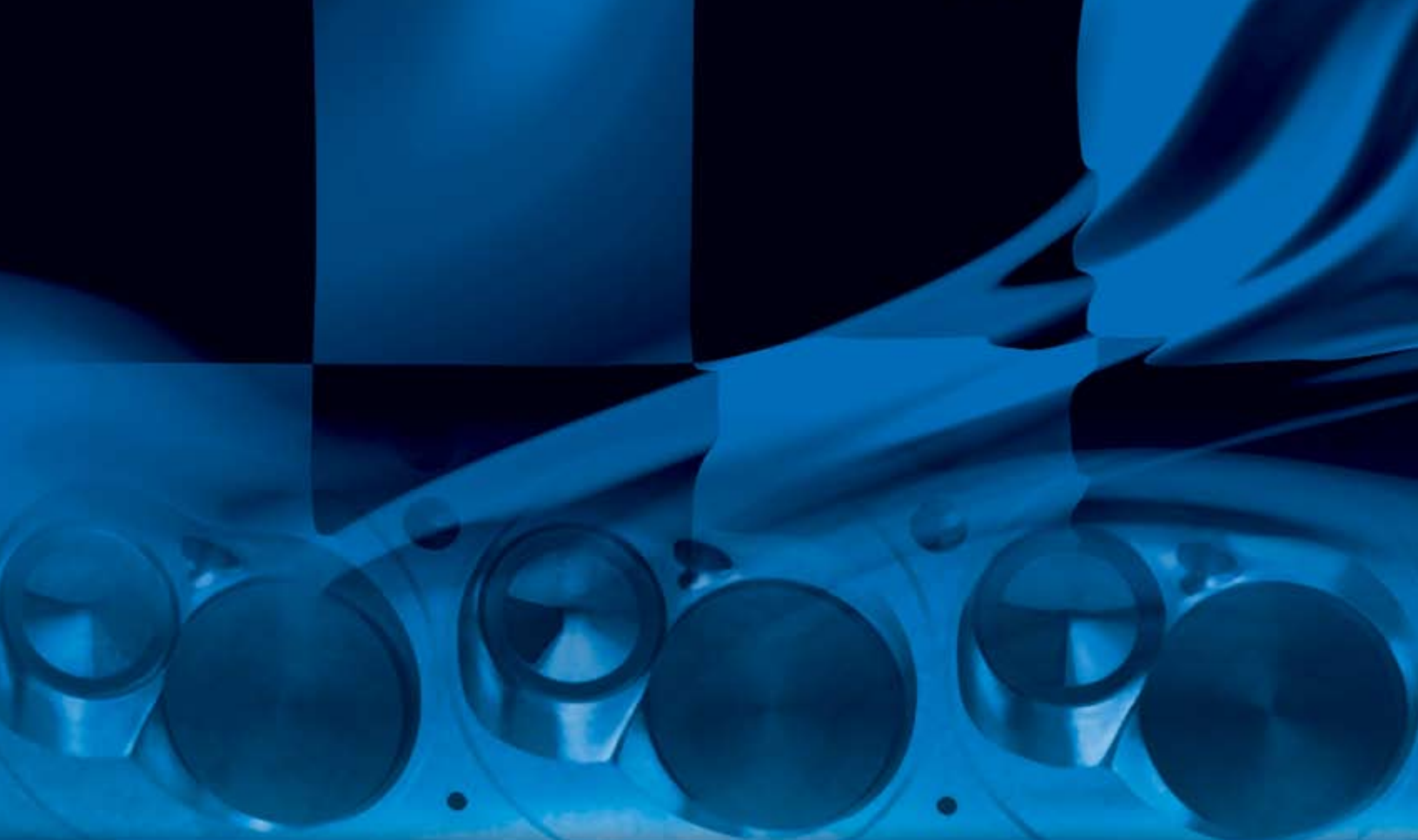
Part N°	References
HARLEY DAVIDSON - EVOLUTION (1984-1998)	
SL1024	Required for Ferrea Springs #S10052 or S10053 (4 pieces)
HARLEY DAVIDSON - TWIN CAM (2005-2008)	
SL1095	Exhaust & Intake. Required for Ferrea Springs # S2019 & S2020 and Ferrea Titanium Retainer # E12028 Seat Locator and Valve Seal one piece assembly. Valve Seal Viton ruber compound Hi Temp
HONDA CRF 250R (2004/2007) - MOTOCROSS-	
SL1058	Exhaust. Required for Ferrea Spring # S10105 and Ferrea Titanium Retainer # E11071.
SL1059	Intake. Required for Ferrea Spring # S10106 and Ferrea Titanium Retainer # E11072.
HONDA CRF 250R (2008) - MOTOCROSS-	
SL1058	Exhaust. Required for Ferrea Spring # S10105 and Ferrea Titanium Retainer # E11086
SL1059	Intake. Required for Ferrea Spring # S10106 and Ferrea Titanium Retainer # E11072
HONDA CRF 450 (2002-2006) - MOTOCROSS-	
SL1043	Exhaust. Required for Ferrea Spring # S10085 and Ferrea Titanium Retainer # E11054.
SL1042	Intake. Required for Ferrea Spring # S10085 and Ferrea Titanium Retainer # E11055.
HONDA TRX 450 (2002-2004)	
SL1043	Exhaust. Required for Ferrea Spring # S10085 and Ferrea Titanium Retainer # E11078.
SL1042	Intake. Required for Ferrea Spring # S10085 and Ferrea Titanium Retainer # E11055.
YAMAHA 700R - GRIZZLY / RAPTOR / RHINO (2006-2009) - 4 VALVE ENGINE -	
SL1093	Required for Ferrea Springs # S10116 (4 pieces)

MOTORCYCLE MANGANESE BRONZE VALVE GUIDES

Part N°	Specifications
HARLEY DAVIDSON - EVOLUTION (1984-1998)	
VG1025	Exhaust .310. OD .562". O/A Length 2.160" - Valve seal .426 (ID)
VG1042	Exhaust .310. OD .563" (+.001 oversize). O/A Length 2.160" - Valve seal .426 (ID)
VG1026	Intake .310. OD .562". O/A Length 2.100" - Valve seal .426 (ID)
VG1043	Intake. .310. OD .563" (+.001 oversize). O/A Length 2.100" - Valve seal .426 (ID)

MOTORCYCLE VALVE SEALS

Part N°	Specifications
HARLEY DAVIDSON - EVOLUTION (1984-1998)	
VS1004	Exhaust - .310 valve stem. Viton rubber compound. Hi Temp
VS1005	Intake - .310 valve stem. Viton rubber compound



VALVE LISTING

APPLICATIONS



**ENGINEERING
TO EXCELLENCE**

FOR HIGH QUALITY VALVETRAIN COMPONENTS

Ferrea
RACING COMPONENTS

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)				
		Titanium	1100 Ser	6000 Ser	5000 Ser	Motorcycle
AIR FLOW RESEARCH - CHEVROLET BIG BLOCK						
BIG BLOCK CHEVY	E 1.880 X 5.450	F1327	F1261P	F6157	N/A	
	E 1.940 X 5.450	CUSTOM	F1260P	F6158	N/A	
	I 2.250 X 5.471	CUSTOM	F1232P	F6195	N/A	
AIR FLOW RESEARCH - CHEVROLET SMALL BLOCK						
180 CC SBC STREET	E 1.600 X 4.910	F1346	F1100PQ	F6100	F5005	
180 CC LT1 STREET	I 2.020 X 4.910	F1650	F1115P	F6101	F5002	
190 CC SBC STREET						
190 CC LT1 STREET						
195 CC SBC STREET						
195 CC LT4 STREET						
180 CC 305 STREET	E 1.500 X 4.910	CUSTOM	CUSTOM	F6107	F5004	
	I 1.940 X 4.910	CUSTOM	CUSTOM	F6102	F5001	
210 CC SBC RACE	E 1.600 X 4.960	F1346	F1100PQ	F6100	N/A	
220 CC SBC RACE	I 2.080 X 4.960	F1314	F1121P	F6115	N/A	
227 CC SBC RACE	E 1.600 X 4.960	F1346	F1100PQ	F6100	N/A	
	I 2.100 X 4.960	F1318	F1871P	F6117	N/A	
215 CC RAISED RUNNER	E 1.600 X 5.160	F1341	F1140PQ	F6147	N/A	
	I 2.100 X 5.160	F1358	F1207P	F6152	N/A	
18 DEGREE GM	E 1.625 X 5.560	F1602	F2220P	N/A	N/A	
	I 2.150 X 5.560	F1614	F2259P	N/A	N/A	
AIR FLOW RESEARCH - FORD SMALL BLOCK						
165 CC FORD SB (NON PEDESTAL)	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5005	
	I 1.900 X 4.960	CUSTOM	CUSTOM	F6218	F5072	
165 CC FORD SB (PEDESTAL)	E 1.600 X 5.075	CUSTOM	CUSTOM	F6183	F5058	
	I 1.900 X 5.075	CUSTOM	CUSTOM	F6239	F5071	
185CC FORD SB (NON PEDESTAL)	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5005	
	I 2.020 X 4.960	F1650	F1115P	F6102	F5002	
185 CC FORD SB (PEDESTAL)	E 1.600 X 5.075	CUSTOM	CUSTOM	F6183	F5058	
	I 2.020 X 5.075	CUSTOM	CUSTOM	F6169	F5069	
TALL PORT FORD SB	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5005	
	I 2.100 X 4.960	F1318	F1871P	F6117	F5030	
ALAN JOHNSON						
HARLEY 80" STREET	E 1.615 X 4.531	CUSTOM	N/A	N/A	N/A	F0145
	I 1.850 X 4.444	CUSTOM	N/A	N/A	N/A	F0144
HARLEY BIG BORE	E 1.615 X 4.531	CUSTOM	N/A	N/A	N/A	F0145
	I 1.900 X 4.444	CUSTOM	N/A	N/A	N/A	F0046
HEMI STAGE 1	E 2.000 X 5.019	F1333	F1506P	N/A	N/A	
OPTIONAL EXH 3/8 STEM	E 2.000 X 5.019	N/A	F1507P	N/A	N/A	
	I 2.375 X 5.610	F1329	N/A	N/A	N/A	
HEMI STAGE 2	E 1.950 X 5.019	N/A	F1527P	N/A	N/A	
OPTIONAL EXH 3/8 STEM	E 1.950 X 5.019	N/A	F1532P	N/A	N/A	
	I 2.400 X 5.610	F1729	N/A	N/A	N/A	

VALVES LISTING APPLICATION

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)				
		Titanium	1100 Ser	6000 Ser	5000 Ser	Motorcycle
ALAN JOHNSON						
AJPE 481X ALCOHOL	E 1.910 X 6.500	CUSTOM	N/A	N/A	N/A	
	I 2.400 X 6.635	CUSTOM	N/A	N/A	N/A	
AJPE SBC-12	E 1.580 X 6.050	F1606	F2215P	N/A	N/A	
	I 2.200 X 6.035	CUSTOM	F1879P	N/A	N/A	
AJPE SBE-18	E 1.600 X 5.690	CUSTOM	F2216P	N/A	N/A	
	E 1.625 X 5.690	F1603	F1880P	N/A	N/A	
	I 2.180 X 5.690	CUSTOM	F1881P	N/A	N/A	
	I 2.200 X 5.690	CUSTOM	F1884P	N/A	N/A	
AJPE SBC-23	E 1.525 X 5.690	CUSTOM	F1882P	N/A	N/A	
	I 2.150 X 5.690	CUSTOM	F1883P	N/A	N/A	
AJPE PRO/STOCK	E 1.925 X 6.810	CUSTOM	N/A	N/A	N/A	
	I 2.600 X 7.100	CUSTOM	N/A	N/A	N/A	
OLDS STAGE 1	E 1.900 X 6.000	CUSTOM	N/A	N/A	N/A	
	I 2.375 X 6.600	CUSTOM	N/A	N/A	N/A	
OLDS STAGE 2	E 1.875 X 6.485	CUSTOM	N/A	N/A	N/A	
	I 2.400 X 6.635	CUSTOM	N/A	N/A	N/A	
OLDS STAGE 3 & 4	E 1.850 X 6.485	CUSTOM	N/A	N/A	N/A	
	I 2.400 X 6.635	CUSTOM	N/A	N/A	N/A	
ALL PRO CYLINDER HEADS - CHEVROLET SMALL BLOCK						
AP 220S & SP	E 1.600 X 5.160	F1341	F1140PQ	F6147	N/A	
	I 2.100 X 5.160	F1358	F1207P	F6152	N/A	
RR 227 SP - RR 227 SP-W	E 1.600 X 5.300	F1308	F2218P	F6160	N/A	
	I 2.125 X 5.300	F1662	F1209P	F6254	N/A	
RR 245 SP-23	E 1.600 X 5.560	F1351	F1256P	N/A	N/A	
	I 2.180 X 5.560	F1365	F2267P	N/A	N/A	
RR 260 SP-17	E 1.625 X 5.725	CUSTOM	F1873P	N/A	N/A	
	I 2.150 X 5.725	CUSTOM	F1874P	N/A	N/A	
OPTIONAL INT	I 2.180 X 5.725	CUSTOM	F1875P	N/A	N/A	
RR 265 RE-15	E 1.600 X 5.725	CUSTOM	F1872P	F6187	N/A	
	I 2.200 X 5.725	CUSTOM	F1876P	N/A	N/A	
RR 267 ULTRA 13 - RR 285 RE-13	E 1.625 X 5.950	CUSTOM	F1877P	N/A	N/A	
	I 2.200 X 5.950	CUSTOM	F1878P	N/A	N/A	
RR 292 RE-15	E 1.600 X 5.725	CUSTOM	F1872P	N/A	N/A	
	I 2.180 X 5.725	CUSTOM	F1875P	N/A	N/A	
BRAD ANDERSON						
HARLEY STREET	E 1.625 X 4.531	CUSTOM	N/A	N/A	N/A	F0045
	I 1.940 X 4.444	CUSTOM	N/A	N/A	N/A	F0044
HEMI STAGE 1	E 2.000 X 5.019	F1333	F1506P	N/A	N/A	
	I 2.375 X 5.610	F1329	N/A	N/A	N/A	
HEMI LATE MODEL	E 1.900 X 5.019	N/A	F1531P	N/A	N/A	
	I 2.400 X 5.610	F1729P	N/A	N/A	N/A	

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES Titanium	(Class/Part N°) 1100 Ser	6000 Ser	5000 Ser	Motorcycle
BRAD ANDERSON						
HEMI STAGE 5 - ALCOHOL FAT HEAD	E 1.950 X 6.040 I 2.425 X 6.400	F1637 F1692	N/A N/A	N/A N/A	N/A N/A	
BRODIX - CHEVROLET BIG BLOCK						
BB-1 OEFI	E 1.880 X 5.425 I 2.250 X 5.271	F1327 CUSTOM	F1201P F1212P	F6157 F6129	F5035 F5031	
BB-1 - STS-BB-1 - BB-2 BB-2 PLUS - STS-BB-2 PLUS	E 1.880 X 5.425 I 2.250 X 5.271 I 2.250 X 5.350	1327P CUSTOM F1330	F1201P F1212P F1223P	F6157 F6129 N/A	F5035 F5031 N/A	
BB-2X - BB-2Xtra - BP BB-2Xtra BB-3 - BB-4	E 1.880 X 5.425 I 2.300 X 5.471	F1327 F1331	F1201P F1219P	F6157 F6131	F5035 F5033	
BB-3Xtra; BP BB-3Xtra "O and O332"	E 1.880 X 5.500 I 2.300 X 5.625	F1747 CUSTOM	F1206P F1234P			
Optional INT for "O 351 and O365" STS BB-4Xtra	I 2.350 X 5.625 E 1.880 X 5.500 I 2.350 X 5.560	CUSTOM F1747 F1694	F2264P F1206P F2264P			
BB-5 OPTIONAL INT	E 1.900 X 5.450 I 2.300 X 5.525 I 2.300 X 5.625	F1327 F1684 CUSTOM	F1267P F1224P F1234P	N/A N/A N/A	N/A N/A N/A	
STS BB4Xtra - BB-5 OPTIONAL	E 1.940 X 5.450 I 2.300 X 5.625	CUSTOM CUSTOM	F1260P F1234P	N/A N/A	N/A N/A	
BIG DUKE	E 1.900 X 6.500 I 2.400 X 6.650	CUSTOM CUSTOM	N/A N/A	N/A N/A	N/A N/A	
EB 420	E 1.900 X 6.600 I 2.375 X 6.900	F1629 F1685	N/A N/A	N/A N/A	N/A N/A	
EB 498	E 1.900 X 6.600 I 2.375 X 6.900	F1629 F1685	N/A N/A	N/A N/A	N/A N/A	
EB 510 - EB 598	E 1.900 X 6.600 I 2.425 X 6.900	F1629 F1687	N/A N/A	N/A N/A	N/A N/A	
EB 650 - EB 700 (1) requires head diam.modification	E 1.920 X 6.600 I 2.475 X 6.900	F1631 F1690 (1)	N/A N/A	N/A N/A	N/A N/A	
EB 800	E 1.940 X 6.600 I 2.500 X 6.900	F1634 F1690	N/A N/A	N/A N/A	N/A N/A	
JESSE JAMES SERIES JJ294, JJ270	E 1.880 X 5.425 I 2.250 X 5.271	F1327 CUSTOM	F1201P F1212P	F6157 F6129	F5035 F5031	
RACE-RITE SERIES RR BB-R, RR BB-0	E 1.880 X 5.425 I 2.250 X 5.271	F1327 CUSTOM	F1201P F1212P	F6157 F6129	F5035 F5031	
BRODIX - SPEC HEADS CHEVY FORD MOPAR						
SP CH, SP FO	E 1.600 X 4.960 I 2.080 X 4.960	F1346 F1314	F1100PQ F1121P	F6100 F6115	F5046 F5021	
SP MO	E 1.600 X 5.060 I 2.080 X 5.060	F1302 F1350	F1148PQ F1147P	F6202 F6203	N/A N/A	

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)			
		Titanium	1100 Ser	6000 Ser	5000 Ser Motorcycle
BRODIX - CHEVROLET SMALL BLOCK					
CARB LEGAL ST	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5046
SMOKEY YUNIK (WP SY WT-1)	I 2.020 X 4.960	F1650	F1115P	F6101	F5047
8 STD FSH (DRAGON SLAYER) - 10 STD OR SP - 11 STD OR SP - TRACK I STD - IMCA SPEC HEAD - CHEVY SPEC HEAD - 8 PRO STS T1 215 - KC T1 227	E 1.600 X 4.960 I 2.080 X 4.960	F1346 F1314	F1100PQ F1121P	F6100 F6115	F5046 F5021
TRACK1X	E 1.600 X 4.960 I 2.100 X 4.960	F1346 F1318	F1100PQ F1871P	F6100 F6117	F5046 N/A
8 - 8PRO - 1 - 11	E 1.600 X 4.960 I 2.080 X 4.960	F1346 F1314	F1100PQ F1121P	F6100 F6115	F5046 F5021
10 RI - 10 X	E 1.600 X 5.160 I 2.100 X 5.160 2.125 X 5.160	F1341 F1358 F1357	F1140PQ F1207P F1127P	F6147 F6152 F6154	N/A N/A N/A
10 X	E 1.600 X 5.160 I 2.125 X 5.160	F1341 F1357	F1140PQ F1127P	F6147 F6154	N/A N/A
11 X - 11x 11 SP X KC 11 SP X	E 1.600 X 5.060 I 2.080 X 5.060 I 2.100 X 5.060	F1302 F1350 F1319	F1148PQ F1147P F2266P	F6202 F6203 F6256	N/A N/A N/A
JESSE JAMES SIGNATURE SERIES JJ180 JJ200 JJ210 CNC Ported	E 1.600 X 4.960 I 2.020 X 4.960 I 2.055 X 4.960 I 2.080 X 4.960	F1346 F1650 F1349 F1314	F1100PQ F1115P F1111P F1121P	F6100 F6101 F6105 F6115	F5046 F5047 F5003 F5021
IK SERIES IK180 IK200 KC IK 210	E 1.600 X 4.960 I 2.020 X 4.960 I 2.020 X 4.960 I 2.080 X 4.960	F1346 F1650 F1650 F1314	F1100PQ F1115P F1115P F1121P	F6100 F6101 F6101 F6115	F5046 F5047 F5047 F5021
12 (15° VALVE ANGLE) 18 STD OR SPD	E 1.600 X 5.300 I 2.150 X 5.300	F1308 F1665	F1149P F1220P	F6160 F6166	N/A N/A
RACE-RITE SERIES RR180 RR200	E 1.600 X 4.960 I 2.020 X 4.960 I 2.055 X 4.960	F1346 F1650 F1349	F1100PQ F1115P F1111P	F6100 F6101 F6105	F5046 F5047 F5003
WP-12 SP RI	E 1.600 X 5.460 I 2.125 X 5.450	F1344 F1663	F2202P F2257P	N/A N/A	N/A N/A
WP-12 SP B WP-18 SP TD	E 1.600 X 5.460 I 2.150 X 5.450	F1344 F1359	F2202P F1186P	N/A N/A	N/A N/A
WP 12X12 B-275	E 1.600 X 5.560 I 2.150 X 5.560	F1351 F1614	F1256P F2259P	N/A N/A	N/A N/A
WP 12X12 B-285, B-296	I 2.180 X 5.560	F1365	F2267P	N/A	N/A
WP 12X12 SP RP	E 1.600 X 6.090 I 2.200 X 6.090	F1606 CUSTOM	F2215P F1879P	N/A N/A	N/A N/A
12 SP WB MC WP	E 1.600 X 5.460 I 2.200 X 5.450	F1344 F1667	F2202P F2260P	N/A N/A	N/A N/A
KC 13 STD	E 1.625 X 5.560 I 2.180 X 5.560	F1602 F1365	F1257P F2267P	N/A N/A	N/A N/A
WP 15 SP, WP 15 STD	E 2.180 X 5.850 I 1.625 X 5.850	CUSTOM CUSTOM	CUSTOM CUSTOM	N/A N/A	N/A N/A

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)				
		Titanium	1100 Ser	6000 Ser	5000 Ser	Motorcycle
BRODIX - CHEVROLET SMALL BLOCK						
18 STD OR SPD	E 1.600 X 5.300	F1308	F1149P	F6160	N/A	
18 STD X, 18 SP X, STS18 STD X STS 18 SP X	I 2.150 X 5.300	F1665	F1220P	F6166	N/A	
WP-18 SP C WELD TECH HUT 1.2	E 1.600 X 5.560	F1351	F1256P	N/A	N/A	
KC 18 SP C, 18 STD C	I 2.180 X 5.560	F1365	F2267P	N/A	N/A	
WP-18 SP C WELD TECH HUT 921	E 1.625 X 5.560	F1602	F1257P	N/A	N/A	
WP-18 SP C WELD TECH HUT 1	I 2.150 X 5.560	F1614	F2259P	N/A	N/A	
WP-18 SP C WELD TECH HUT 1.1	E 1.625 X 5.560	F1602	F1257P	N/A	N/A	
	I 2.180 X 5.560	F1365	F2267P	N/A	N/A	
CANTED VALVES (CVSP)	E 1.600 X 6.090	F1606	F2215P	N/A	N/A	
	I 2.250 X 6.200	F1669	F2262P	N/A	N/A	
BRODIX - CHRYSLER						
BI (CHRY 440)	E 1.780 X 5.400	CUSTOM	F1275P	N/A	N/A	
	I 2.300 X 5.375	CUSTOM	N/A	F6141	N/A	
BI BS (CHRY 440)	E 1.810 X 5.300	CUSTOM	F1266P	N/A	N/A	
	I 2.200 X 5.300	F1666	F1229P	N/A	N/A	
BI BA - IMCA SPEC MOPAR	E 1.600 X 5.060	F1302	F1148PQ	F6202	N/A	
	I 2.080 X 5.060	F1350	F1147P	F6203	N/A	
BITS (PRO STOCK) - BI BA MC	E CUSTOM	CUSTOM	CUSTOM	N/A	N/A	
	I CUSTOM	CUSTOM	CUSTOM	N/A	N/A	
BRODIX - FORD						
BF SERIES 200-202	E 1.600 X 5.690	CUSTOM	F2216P	N/A	N/A	
BF 200	I 2.125 X 5.725	CUSTOM	F1874P	N/A	N/A	
BF 201-202	I 2.180 X 5.725	CUSTOM	F1875P	N/A	N/A	
BF 300-301	E 1.600 X 5.160	F1341	F1140PQ	F6147	N/A	
	I 2.125 X 5.300	F1662	F1209P	F6254	N/A	
TRACK I STD (TI STD F) - IMCA SPEC FORD	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5025	
	I 2.080 X 4.960	F1314	F1121P	F6115	F5021	
NEAL FORD HEAD (BF 200)	E 1.600 X 5.640	CUSTOM	CUSTOM	N/A	N/A	
	I 2.125 X 5.740	CUSTOM	CUSTOM	N/A	N/A	
ST 5.0 , ST5.0 R	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5025	
	I 1.940 X 4.960	CUSTOM	CUSTOM	F6102	F5001	
KC ST 5.0 R	I 2.020 X 4.960	F1650	F1115P	F6101	F5002	
CHRYSLER HEMI 99 NHRA PRO-STOCK						
4876883 - 4.900 BORE NHRA	E 1.900 X 6.800	CUSTOM	N/A	N/A	N/A	
5007135 - 5.000 BORE IHRA	I 2.550 x 6.900	CUSTOM	N/A	N/A	N/A	
5007178 - PROMOD						
DART IRON EAGLE - CHEVROLET BIG BLOCK						
308CC	E 1.880 X 5.425	F1327	F1201P	F6157	N/A	
	I 2.250 X 5.471	CUSTOM	F1232P	F6195	N/A	
345CC	E 1.880 X 5.425	F1327	F1201P	F6157	N/A	
	I 2.300 X 5.471	CUSTOM	F1219P	F6131	N/A	

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)				Motorcycle
		Titanium	1100 Ser	6000 Ser	5000 Ser	
DART IRON EAGLE - CHEVROLET SMALL BLOCK						
180CC & 200 CC	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5005	
	I 2.020 X 4.960	F1650	F1115P	F6101	F5002	
215 CC - PRO 1 215 CC	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5005	
	I 2.050 X 4.960	F1349	F1111P	F6105	F5003	
230 CC	E 1.625 X 4.960	F1347	F1101P	F6143	N/A	
	I 2.080 X 4.960	F1314	F1121P	F6115	N/A	
PRO 1 200 CC	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5005	
	I 2.020 X 4.960	F1650	F1115P	F6101	F5002	
PRO 1 230 CC	E 1.625 X 4.960	F1347	F1101P	F6143	N/A	
	I 2.080 X 4.960	F1314	F1121P	F6115	N/A	
DART PRO 1 - CHEVROLET BIG BLOCK						
310 CC & 325 CC	E 1.880 X 5.425	F1327	F1201P	F6157	N/A	
	I 2.250 X 5.471	CUSTOM	F1232P	F6195	N/A	
345	E 1.880 X 5.425	F1327	F1201P	F6157	N/A	
	I 2.300 X 5.471	CUSTOM	F1219P	F6131	N/A	
DART RACE SERIES - CHEVROLET BIG BLOCK						
DART 265, 308, 320	E 1.880 X 5.425	F1327	F1201P	F6157	N/A	
	I 2.250 X 5.471	CUSTOM	F1232P	F6195	N/A	
DART 360	E 1.900 X 5.425	F1327	F1267	F6186	N/A	
	I 2.300 X 5.471	CUSTOM	F1219P	F6131	N/A	
DART BIG M	E 1.880 X 5.425	F1327	F1201P	N/A	N/A	
	I 2.350 X 5.625	CUSTOM	F2264P	N/A	N/A	
DART BIG CHIEF	E 1.900 X 6.450	F1639	F1263P	N/A	N/A	
	I 2.400 X 6.600	F1323	F1265P	N/A	N/A	
DART RACE SERIES - CHEVROLET SMALL BLOCK						
DART 220	E 1.625 X 5.060	F1303	F1108P	F6205	N/A	
	I 2.100 X 5.060	F1319	F2266P	F6256	N/A	
RAISED RUNNER -23	E 1.625 X 5.160	F1340	F1128P	F6148	N/A	
	I 2.125 X 5.160	F1357	F1127P	F6154	N/A	
DART-18	E 1.625 X 5.560	F1602	F2220P	N/A	N/A	
	I 2.180 X 5.560	F1365	F2267P	N/A	N/A	
DART - CHRYSLER						
DART HEMI T/F F/C	E 1.900 X 5.020	CUSTOM	F1531P	N/A	N/A	
	I 2.400 X 5.610	F1729	N/A	N/A	N/A	
EDELBROCK - CHEVROLET BIG BLOCK						
PERFORMER RPM - 6045-6046 6047-6048-6049-6054-6055	E 1.880 X 5.425	F1327	F1201P	F6157	N/A	
	I 2.190 X 5.300	CUSTOM	F1211P	F6139	N/A	

VALVES LISTING APPLICATION

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)			
		Titanium	1100 Ser	6000 Ser	5000 Ser
EDELROCK - CHEVROLET BIG BLOCK (CNC)					
VICTOR JR-6040-6041	E 1.900 X 5.450	F1327	F1270P	N/A	N/A
OVAL PORT 6042-6043	I 2.250 X 5.300	F1330	F1212P	N/A	N/A
VICTOR CNC 7765-7760	E 1.900 X 5.450	F1327	F1270P	N/A	N/A
	I 2.300 X 5.625	CUSTOM	F1234	N/A	N/A
EDELROCK - CHEVROLET SMALL BLOCK					
PERFORMER RPM - 6061-6063	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5005
-6088-6071-6073-6089	I 2.020 X 4.960	F1650	F1115P	F6101	F5002
PERFORMER SBC - 6065-6075-6090					
PERFORMER CENTERBOLT - 6084-6085					
CENTERBOLT - CORVETTE 6086-6087					
VICTOR JR-23 - 7763-7764-7761-7762	E 1.600 X 5.160	F1341	F1140PQ	F6147	N/A
	I 2.080 X 5.160	F1356	F1139P	F6164	N/A
VICTOR-23 HIGH PORT - 6120-6122-6124	E 1.625 X 5.300	F1371	F2219P	F6194	N/A
	I 2.100 X 5.300	F1657	F1208P	F6257	N/A
VICTOR 18 HIGH PORT	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.125 X 5.560	F1363	CUSTOM	N/A	N/A
OPTIONAL INT	I 2.180 X 5.560	F1365	F2267P	N/A	N/A
EDELROCK - CHRYSLER					
PERFORMER - 6076-6077	E 1.600 X 5.010	F1302	F1102P	F6104	F5025
-6017-6019	I 2.020 X 5.010	F1651	F1118P	F6103	F5027
EDELROCK - FORD 460					
PERFORMER RPM 460	E 1.760 X 5.060	CUSTOM	F1437P	F6258	F5145
68-71 460 - 6067-6069	I 2.190 X 5.300	F1666	F1211P	F6139	F5037
72-87 460 - 6066-6068					
EDELROCK - FORD FE					
PERFORMER FE 390-428 - 6007-6008	E 1.650 X 5.435	CUSTOM	CUSTOM	F6212	N/A
	I 2.090 X 5.450	CUSTOM	CUSTOM	F6210	N/A
PERFORMER FE 427 - 6007-6008	E 1.750 X 5.435	CUSTOM	CUSTOM	F6216	N/A
	I 2.190 X 5.450	CUSTOM	CUSTOM	F6215	N/A
EDELROCK - FORD SMALL BLOCK					
PERFORMER - 6021-6022-6031-6032	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5005
	I 1.900 X 4.960	CUSTOM	CUSTOM	F6218	F5072
PERFORMER - 6024-6025-6026-6027-6034-6035	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5005
	I 2.020 X 4.960	F1650	F1115P	F6101	F5002
PERFORMER 5.0/5.8L - 6028-6036-6037	E 1.600 X 5.075	CUSTOM	CUSTOM	F6183	F5058
	I 1.900 X 5.075	CUSTOM	CUSTOM	F6239	F5071
PERFORMER 5.0/5.8L - 6029-6038-6039	E 1.600 X 5.075	CUSTOM	CUSTOM	F6183	F5058
	I 2.020 X 5.075	CUSTOM	CUSTOM	F6169	F5069
VICTOR-JR - 7716-7717-7718-7719	E 1.600 X 5.060	F1302	F1187P	F6202	N/A
	I 2.050 X 5.060	F1652	F2252P	F6207	N/A

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)			
		Titanium	1100 Ser	6000 Ser	5000 Ser
EDELBRÖCK - FORD SMALL BLOCK					
VICTOR-JR - 7721	E 1.625 X 5.450	F1342	F1178P	N/A	N/A
	I 2.125 X 5.450	F1663	F2257P	N/A	N/A
VICTOR CNC	E 1.650 X 5.450	F1348	F1142P	N/A	N/A
	I 2.100 X 5.450	F1658	F2255P	N/A	N/A
EDELBRÖCK - OLDSMOBILE					
PERFORMER RPM OLDS - 6051-6052	E 1.680 X 4.780	CUSTOM	CUSTOM	CUSTOM	CUSTOM
	I 2.072 X 4.756	CUSTOM	CUSTOM	CUSTOM	CUSTOM
EDELBRÖCK - PONTIAC					
PERFORMER RPM - 6056-6057 OPTIONAL EXH	E 1.660 X 5.110	CUSTOM	CUSTOM	F6259	CUSTOM
	E 1.770 X 5.110	CUSTOM	CUSTOM	F6176	F5144
	I 2.110 X 5.095	CUSTOM	CUSTOM	F6174	F5143
PERFORMER RPM - 6058-6059 OPTIONAL EXH	E 1.660 X 5.230	CUSTOM	CUSTOM	F6177	F5064
	E 1.770 X 5.230	CUSTOM	CUSTOM	F6178	F5063
	I 2.110 X 5.213	CUSTOM	CUSTOM	F6175	F5066
FORD RACING 429-460					
FORD 429/460 COBRA-JET M6049-A429-B429-C429	E 1.760 X 5.060	CUSTOM	F1437P	F6258	F5145
	I 2.190 X 5.300	F1666	F1211P	F6139	F5037
SPORTSMAN C-460 - M6049-C460	E 1.900 X 6.240	F1628	F1264	N/A	N/A
	I 2.450 X 6.300	F1688	F1236	N/A	N/A
FORD NHRA PRO/STK E460	E 1.880 X CUSTOM	CUSTOM	N/A	N/A	N/A
	I 2.450 X CUSTOM	CUSTOM	N/A	N/A	N/A
429 FORD RACING HEMI M6049-B441	E CUSTOM	CUSTOM	N/A	N/A	N/A
	I CUSTOM	CUSTOM	N/A	N/A	N/A
FORD RACING - SMALL BLOCK					
GT-40 P M6049-P303	E 1.480 X 5.075	CUSTOM	CUSTOM	F6260	CUSTOM
	I 1.840 X 5.075	CUSTOM	CUSTOM	F6122	F5029
GT-40 M6049-M50	E 1.480 X 5.075	CUSTOM	CUSTOM	F6260	CUSTOM
	I 1.780 X 5.075	CUSTOM	CUSTOM	F6261	CUSTOM
GT-40X TURBO SWIRL - M6049-X302-X303-X304- X305-Y302-Y303	E 1.540 X 5.075	CUSTOM	CUSTOM	F6123	F5028
	I 1.940 X 5.075	CUSTOM	CUSTOM	F6170	F5059
SPORTSMAN N-351 - M6049-N351	E 1.600 X 5.160	F1341	F1140PQ	F6147	F5068
	I 2.020 X 5.160	CUSTOM	F2251P	F6206	F5067
YATES FORD SB - M6049-C3-C3L-C35	E 1.600 X 5.160	F1341	F1140PQ	F6147	N/A
	I 2.100 X 5.285	F1656	F1208P	F6155	N/A
YATES HIGH PORT SB - M6049-SCI	E 1.625 X 5.565	F1602	F2220P	N/A	N/A
	I 2.180 X 5.685	CUSTOM	F1881P	N/A	N/A
YATES HIGH PORT SB - M6049-C3H	E 1.600 X 5.260	F1600	F2218P	N/A	N/A
	I 2.125 X 5.450	F1663	F2257	N/A	N/A

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)			
		Titanium	1100 Ser	6000 Ser	5000 Ser Motorcycle
INDY CYLINDER HEAD					
440-SR	E 1.810 X 5.370	CUSTOM	F1885P	F6188	N/A
	I 2.190 X 5.344	F1666	F1226P	F6189	N/A
440-1 & C OPTIONAL INT	E 1.810 X 5.370	CUSTOM	F1885P	F6188	N/A
	I 2.190 X 5.344	F1666	F1226P	F6189	N/A
	I 2.250 X 5.344	F1330	F1223P	F6190	N/A
572-13 OPTIONAL INT	E 1.880 X 5.522	F1377	F1206P	N/A	N/A
	I 2.300 X 5.494	F1684	F1219P	N/A	N/A
	I 2.350 X 5.494	F1694	F1225P	N/A	N/A
600-13 OPTIONAL INT	E 1.940 X 5.880	CUSTOM	F1886P	N/A	N/A
	I 2.400 X 5.850	CUSTOM	CUSTOM	N/A	N/A
	I 2.450 X 5.850	CUSTOM	CUSTOM	N/A	N/A
LEGEND HEMI OPTIONAL EXH OPTIONAL EXH OPTIONAL INT	E 1.900 X 5.019	CUSTOM	F1523P	N/A	N/A
	E 1.940 X 5.019	CUSTOM	F1521P	N/A	N/A
	E 2.000 X 5.019	CUSTOM	CUSTOM	N/A	N/A
	I 2.250 X 5.850	CUSTOM	F1887P	N/A	N/A
	I 2.400 X 5.850	CUSTOM	CUSTOM	N/A	N/A
MOPAR 318-360					
W9 ALUMINUM 318-360 P5007066-P5007065-P5007179- P5007061 (CNC)-P5007063 (CNC) P5007064 (CNC) (*) P5007062 (CNC) (*)	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.150 X 5.560	F1614	F2259P	N/A	N/A
	I 2.180 X 5.560 (*)	F1365	F2267P	N/A	N/A
"A" ENGINE 318-360 (CAST IRON) P452969-P5249768-P5249459	E 1.600 X 4.970	CUSTOM	CUSTOM	F6244	N/A
	I 1.880 X 4.980	CUSTOM	CUSTOM	F6247	N/A
P5249574-P4876330-P4836179- P4876180- ALUMINUM COMMANDO P4876785	E 1.600 X 4.970	CUSTOM	CUSTOM	F6244	N/A
	I 2.020 X 4.980	CUSTOM	CUSTOM	F6249	N/A
P5249573	E 1.625 X 4.970	CUSTOM	CUSTOM	F6245	N/A
	I 1.920 X 4.980	CUSTOM	CUSTOM	F6248	N/A
P4876891	E 1.500 X 4.970	CUSTOM	CUSTOM	F6243	N/A
	I 1.780 X 4.980	CUSTOM	CUSTOM	F6246	N/A
ALUMINUM MAGNUM 3.9 & 5.9 P4876624 5/16 stem	E 1.625 X 4.930	CUSTOM	CUSTOM	F6251	N/A
	I 1.920 X 4.910	CUSTOM	CUSTOM	F6252	N/A
MAGNUM CAST IRON 3.9 & 5.9 P4876256-P5007086	E 1.625 X 4.930	CUSTOM	CUSTOM	F6251	N/A
	I 1.920 X 4.910	CUSTOM	CUSTOM	F6252	N/A
P4876257	E 1.625 X 4.930	CUSTOM	CUSTOM	F6251	N/A
	I 1.970 X 4.910	CUSTOM	CUSTOM	F6253	N/A
P4529353	E 36.8 X 114.3	CUSTOM	CUSTOM	N/A	N/A
	I 44 X 114.3	CUSTOM	CUSTOM	N/A	N/A

VALVES LISTING APPLICATION

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)				Motorcycle
		Titanium	1100 Ser	6000 Ser	5000 Ser	
MOPAR 318-360						
W8 ALUMINUM P4876281 NASCAR - P4876783 NHRA P4876697 (CNC)	E 1.625 X 5.560 I 2.180 X 5.560	F1602 F1365	F2220P F2267P	N/A N/A	N/A N/A	
W5 ALUMINUM - P5249002-P5249435 OPTIONAL EXH	E 1.600 X 5.300 E 1.625 X 5.300 I 2.020 X 5.300 I 2.080 X 5.300 I 2.125 X 5.300 I 2.150 X 5.300	F1308 F1371 CUSTOM F1654 F1662 F1665	F1149P F2219P CUSTOM F1238P F1209P F1220P	F6160 F6194 CUSTOM F6263 F6254 F6166	N/A N/A N/A N/A N/A N/A	
W2 CAST IRON - P4529994 STD VAL	E 1.600 X 5.075 I 2.020 X 5.050	CUSTOM CUSTOM	CUSTOM CUSTOM	F6173 F6172	F5051 F5050	
W2 CAST IRON - P452995 LONG VAL	E 1.600 X 5.300 I 2.020 X 5.300	CUSTOM CUSTOM	CUSTOM CUSTOM	N/A N/A	N/A N/A	
RACE W2 P4529446 - P5249769 - P5249770 - P4876336 - P5007089	E 1.600 X 5.300 E 1.625 X 5.300 I 2.020 X 5.300 I 2.080 X 5.300 I 2.125 X 5.300	CUSTOM CUSTOM CUSTOM CUSTOM CUSTOM	CUSTOM CUSTOM CUSTOM CUSTOM CUSTOM	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	
MOPAR 383-440						
B/RB STAGE V P4529993 - P5249112	E 1.810 X 4.910 I 2.140 X 4.875	CUSTOM CUSTOM	CUSTOM CUSTOM	F6192 F6217	F5053 F5052	
ALUMINUM 383/440 - P4876311	E 1.810 X 4.910 I 2.140 X 4.875	CUSTOM CUSTOM	CUSTOM CUSTOM	F6192 F6217	F5053 F5052	
MAX WEDGE B/RB - P4529996 STAGE II P4529997 STAGE III	E 1.880 X 4.910 I 2.080 X 4.875	CUSTOM CUSTOM	CUSTOM CUSTOM	F6250 CUSTOM	F5073 F5054	
MAX WEDGE B/RB - BIG VAL STAGE III P52498524	E 1.810 X 4.910 I 2.140 X 4.875	CUSTOM CUSTOM	CUSTOM CUSTOM	F6192 F6217	F5053 F5052	
B-1 ALUMINUM (B/RB) - P4349600	E CUSTOM I CUSTOM	CUSTOM CUSTOM	CUSTOM CUSTOM	N/A N/A	N/A N/A	
B/RB STAGE VI - P4529335- P4876819-P5249579-P4879819 P4876991-P4876186	E 1.810 X 4.910 I 2.140 X 4.875	CUSTOM CUSTOM	CUSTOM CUSTOM	F6192 F6217	F5053 F5052	
B/RB STAGE VI - P4876187 (CNC)- P4876382 (CNC)-P4876383 (CNC)	E 1.810 X 4.910 I 2.180 X 4.875	CUSTOM CUSTOM	CUSTOM CUSTOM	F6192 F6191	N/A N/A	
MOPAR - HEMI 426						
426 CAST IRON HEMI P4529898 - P5249525 - P5249524	E 1.940 X 4.910 I 2.250 X 5.472	CUSTOM CUSTOM	F1521P F1500P	N/A N/A	N/A N/A	

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)			
		Titanium	1100 Ser	6000 Ser	5000 Ser
MOPAR - HEMI 426					
426 ALUMINUM HEAD P4529336 - P4876857 - P4876355 (CNC)	E 1.940 X 4.910	CUSTOM	F1521P	N/A	N/A
	I 2.250 X 5.472	CUSTOM	F1500P	N/A	N/A
426 BIG VALVE - P4876873	E 1.940 X 4.910	CUSTOM	F1521P	N/A	N/A
	I 2.350 X 5.472	CUSTOM	F1895P	N/A	N/A
MOPAR 4 CYLINDER					
2.2/2.5 SOHC - P4529104	E 36.15 X 112.2	CUSTOM	CUSTOM	N/A	N/A
	I 41.6 X 112.2	CUSTOM	CUSTOM	N/A	N/A
PRO ACTION ALUMINUM 14° HEADS - CHEVROLET SMALL BLOCK					
14° 11460030	CUSTOM	CUSTOM	CUSTOM	N/A	N/A
	CUSTOM	CUSTOM	CUSTOM	N/A	N/A
14° 11462254	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.150 X 5.560	F1614	F2259P	N/A	N/A
14° 11462265 - 14° 11462265DN	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.180 X 5.560	F1365	F2267P	N/A	N/A
14° 11462285	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.250 X 5.625	CUSTOM	F1239P	N/A	N/A
14° 11462285DN	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.200 X 5.560	F1365	F2261P	N/A	N/A
14° 11462585DN	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.250 X 5.625	CUSTOM	F1239P	N/A	N/A
PRO ACTION IRON - CHEVROLET SMALL BLOCK HEADS					
23° 22300000	E 1.600 X 5.460	F1344	F2203P	N/A	N/A
	I 2.080 X 5.460	CUSTOM	CUSTOM	N/A	N/A
23° 22362022	E 1.600 X 5.460	F1344	F2203P	N/A	N/A
	I 2.080 X 5.460	CUSTOM	CUSTOM	N/A	N/A
23° 22362256	E 1.625 X 5.460	F1342	F2203P	N/A	N/A
	I 2.125 X 5.460	F1663	F2257P	N/A	N/A
14° 21460030	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.125 X 5.560	F1363	CUSTOM	N/A	N/A
14° 21462254	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.150 X 5.560	F1614	F2259P	N/A	N/A
14° 21462265	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.180 X 5.560	F1365	F2267P	N/A	N/A
14° 21465854	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.250 X 5.625	CUSTOM	F1239P	N/A	N/A

VALVES LISTING APPLICATION

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

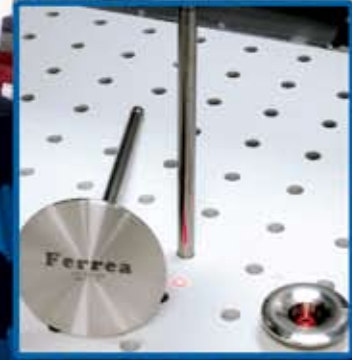
Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)			
		Titanium	1100 Ser	6000 Ser	5000 Ser Motorcycle
TRICK FLOW ALUMINUM HEAD - CHEVROLET BIG BLOCK					
BBC	E 1.880 X 5.425	F1327	F1201P	F6157	N/A
	E 1.900 X 5.425	F1327	F1267P	F6186	N/A
	I 2.250 X 5.471	CUSTOM	F1232P	F6195	N/A
	I 2.300 X 5.471	CUSTOM	F1219P	F6131	N/A
TRICK FLOW ALUMINUM HEAD - CHEVROLET SMALL BLOCK					
TWISTED WEDGE G-2 TWISTED WEDGE 23°	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5046
	I 2.020 X 4.960	F1650	F1115P	F6101	F5047
TWISTED WEDGE 23° BIG PORT	E 1.600 X 5.010	F1302	F1102P	F6104	F5025
	E 1.600 X 5.060	F1302	F1187P	F6202	N/A
	I 2.055 X 5.010	F1652	F1112P	F6114	F5022
	I 2.080 X 5.060	F1652	F1147P	F6203	N/A
18° SBC	E 1.625 X 5.560	F1602	F2220P	N/A	N/A
	I 2.150 X 5.560	F1614	F2259P	N/A	N/A
TRICK FLOW ALUMINUM HEAD - FORD 429-460					
A 460 BBF	E 1.940 X 5.700	F1633	CUSTOM	F6180	N/A
	I 2.350 X 5.755	F1334	CUSTOM	F6168	N/A
CJ 429 BBF	E 1.760 X 5.058	CUSTOM	F1437P	F6258	F5145
	I 2.250 X 5.271	CUSTOM	F1212P	F6129	F5031
TRICK FLOW ALUMINUM HEAD - FORD SMALL BLOCK					
SBF TWISTED WEDGE	E 1.600 X 4.960	F1346	F1100PQ	F6100	F5046
	I 2.020 X 4.960	F1650	F1115P	F6101	F5047
R SERIES SBF	E 1.600 X 5.300	F1308	F2218P	F6160	N/A
	I 2.080 X 5.300	F1654	F1238P	F6263	N/A
WORLD PRODUCTS - CHEVROLET BIG BLOCK					
MERLIN STREET/HI PERF OVAL PORT IRON 3004B 310 CC REC IRON 3003B 310 CC REC ALUM 2003B	E 1.880 X 5.400	CUSTOM	F2101P	F6125	F5111
	I 2.190 X 5.271	CUSTOM	F2111P	F6126	F5108
MERLIN VR MARINE SPECIAL & SPORTSMAN PORTED OVAL PORT IRON 3074MS 310 CC RET IRON 3072MS 345 RET IRON 3073MS 310 CC RET ALUM 2072MS 345 REC ALUM 3073MS	E 1.880 X 5.450	F1327	F1261P	N/A	N/A
	I 2.250 X 5.350	F1330	F1212P	F6129	N/A
	I 2.250 X 5.471	CUSTOM	F1232P	F6195	N/A
MERLIN VR RACER SPECIAL & SPORTSMAN PORTED OVAL PORT IRON 3004RS 310 REC IRON 3062RS 345 REC IRON 3063RS 310 REC ALUM 2026RS 345 REC ALUM 2063RS	E 1.880 X 5.425	F1327	F1261P	F6157	N/A
	I 2.250 X 5.350	F1330	F1212P	F6129	N/A
	I 2.250 X 5.471	CUSTOM	F1232P	F6195	N/A

VALVES LISTING APPLICATION FOR CYLINDER HEAD MANUFACTURER

Head Description/Part N°	Valves Type/Size	FERREA VALVES (Class/Part N°)			
		Titanium	1100 Ser	6000 Ser	5000 Ser
WORLD PRODUCTS - CHEVROLET SMALL BLOCK					
S/R STOCK REPLACEMENT 4360B - 4361B - 4364 B - 4365B	E 1.500 X 4.910 I 1.940 X 4.910	CUSTOM CUSTOM	CUSTOM CUSTOM	F6107 F6111	F5004 F5001
S/R TORQUER 4266B - 4267B - 4277B	E 1.600 X 4.910 I 2.020 X 4.910	F1346 F1650	F1100PQ F1115P	F6100 F6101	F5005 F5002
S/R TORQUER 305 4265B - 4275B	E 1.500 X 4.910 I 1.940 X 4.910	CUSTOM CUSTOM	CUSTOM CUSTOM	F6107 F6111	F5004 F5001
SPORTSMAN II CAST IRON 1115B - 1125B - 1215B - 1225B - 1226B	E 1.600 X 4.910 I 2.020 X 4.910	F1346 F1650	F1100PQ F1115P	F6100 F6101	F5005 F5002
SPORTSMAN II ALUMINUM 2115B - 2125B - 2215B - 2225B	E 1.600 X 4.910 I 2.020 X 4.910	F1346 F1650	F1100PQ F1115P	F6100 F6101	F5005 F5002
SPORTSMAN II CAST IRON RACER SPECIAL & SPORTSMAN PORTED 1115RS - 1125RS - 1215RS - 1225RS - 1226RS	E 1.600 X 4.910 I 2.055 X 4.910 I 2.080 X 4.910	F1346 F1349 F1314	F1100PQ F1111P F1121P	F6100 F6105 F6115	F5005 F5003 F5021
SPORTSMAN II RACER SPECIAL & SPORTSMAN PORTED (ALUMINUM) 2115RS - 2125RS - 2215RS - 2225RS	E 1.600 X 4.960 I 2.055 X 4.960 I 2.080 X 4.960	F1346 F1349 F1314	F1100PQ F1111P F1121P	F6100 F6105 F6115	F5005 F5003 F5021
MOTOWN RACE SBC 215 CC IRON 0141503 215 CC ALUMINUM 024150	E 1.600 X 5.010 I 2.080 X 5.010	F1302 F1350	F1102P F1114P	F6104 F6116	F5025 F5023
WORLD PRODUCTS - CHRYSLER 440					
MERLIN CHRYSLER TORQUER 440 2604 PRO 440	E 1.810 X 5.369 I 2.190 X 5.344	CUSTOM CUSTOM	CUSTOM CUSTOM	F6188 F6189	N/A N/A
WORLD PRODUCTS - FORD SMALL BLOCK					
WINDSOR IRON 5302 - ALUM 2302	E 1.600 X 4.960 I 2.020 X 4.960	F1346 F1650	F1100PQ F1115P	F6100 F6101	F5046 F5047
WINDSOR JR IRON 5303 - ALUM 52303	E 1.600 X 4.960 I 1.940 X 4.960	F1350 CUSTOM	F1100PQ CUSTOM	F6100 F6111	F5105 F5101
WORLD PRODUCTS - FORD V-6					
2.9 L V6 FORD IRON 052900B	E 1.419 X CUSTOM I 1.657 X CUSTOM	CUSTOM CUSTOM	CUSTOM CUSTOM	CUSTOM CUSTOM	CUSTOM CUSTOM

Terms and Conditions

ORDERS	By Telephone (954) 733-2505 - Monday - Friday 8:30 A.M. to 5:30 P.M. Eastern Time Toll Free (888) 733-2505 - Monday - Friday 8:30 A.M. to 5:30 P.M. Eastern Time By Fax (954) 735-2179 - 24 hours a day / 7 days a week E-mail ferrea@ferrea.com
PRICES	From Price Schedule. There are available discounts for quantity purchases and approved accounts. Ferrea Racing Components (Horacio O. Ferrea N.A.D., Inc.) reserves the right to decide the qualifications, requirements and the final approval for discounts. Prices are subject to change without notice.
PAYMENT	Cash, Cashier's Check or Money Order via UPS-COD. Company Checks only to approved accounts. We also accept major credit cards and electronic wire transfer, A Service Charge of 1½% (18% per annum) will be added to all past due accounts. Also, a service charge will be applied to all returned checks. If the seller requires the service of an attorney, whether legal action be brought or not, in the event of any default, the buyer agrees to pay all costs of collection including, but not limited to, court costs and attorney fees.
SHIPPING	We use major carriers for shipping (UPS, FedEx, etc.) with freight and other delivery charges (COD, insurance, etc.) collect.
SPECIAL ORDERS	All special orders must be paid in full, in advance when ordered. The sales of special orders are final and no items may be returned.
RETURNS	Must be authorized and include a copy of the Invoice. No returns accepted after 30 days from the Invoice date. All merchandise returned is subject to a 15% restocking charge.
CUSTOM and MADE	Racing valves not in stock can be custom made within days. Check with us for pricing lead time. Any custom-machined parts made under customer specifications are non-returnable items and the sale is final on these products.
WARRANTY DISCLAIMER	Our racing products are sold without warranty of any kind due to the unusual stress placed on these racing components and because we have no control over how they are used. All implied warranties including all warranties of merchantability or fitness for a particular purpose and other obligations or liabilities are hereby disclaimed. No representations have been made to the buyer regarding our products including, but not limited to, any representation as to their quality or performance. The sole obligation of Ferrea Racing Components (Horacio O. Ferrea N.A.D., Inc.) shall be limited only to the products to be found defective, in either workmanship or material, after the inspection performed by our company. This Limited Warranty applies only to the original purchaser of the product and only covers the replacement or repair of the product at Ferrea's election. The company shall not be responsible for any damage caused by defects or failure of these parts. The company shall not be responsible for any consequential damage arising from any cause whatsoever, nor for labor, transportation or any other related incurred costs due to the replacement or repair of the defective products.
WARNING	All the parts are sold for racing purposes and may be installed on vehicles (cars, motorcycles, boats, etc.) used solely in sanctioned off-highway events. The installation of these parts may cause the vehicles to be unable to be lawfully used on public highways, and the purchaser assumes all risk and expenses thereof. In our catalogs we use brand names for the sole purpose of identification for vehicles, engines, cylinder heads, etc. No other intention is implied in the use of these brand names. Every possible effort has been made to insure the accuracy of the information listed in this catalog. However, we are not responsible for any damage caused by misapplication or typographical errors.



WE HAVE THE
TECHNOLOGY,
EXPERIENCE
AND EXPERTISE
TO GIVE YOU
RESULTS



ENGINEERING TO EXCELLENCE

FOR HIGH QUALITY VALVETRAIN COMPONENTS



- Titanium, Super Alloy, Special Alloy,
Hollow Stem & Stainless Steel Racing Valves
- High Performance Valve Cover Gasket
- Valve Springs & Spring Seat Locators
- Racing Cylinder Head Gasket
- Titanium Retainers & Locks
- Roller Rocker Assemblies
- Competition Wrist Pins
- Valve Guides & Seats
- Camshafts
- Lifters

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