



FLOTEK

Performance Cylinder Heads



WWW.FLOTEKHEADS.COM

October 2021

Performance Cylinder Heads

In 2005, Tri-State Cylinder Head began research and development of the FLOTEK High Performance Aluminum Racing Heads. Introduction of the FLOTEK Cylinder Heads were in production by 2007. Our first warehouse distributors were Speedway Motors and Vehicle Specialties, Inc. We now warehouse to the industry leaders such as Summit Racing, Motorville, Motor State Distributors, Meyer Distributing/VSI, Speedway Motors and Performance Warehouse. With every effort focused on offering new cylinder heads to the market at competitive prices and fantastic performance, FLOTEK Performance Cylinder Heads offer:

SMALL BLOCK FORD 180 • SMALL BLOCK FORD 185 “THUMPER”

FORD 190 CNC • FORD 205 “THE HAMMER” • SMALL BLOCK CHEVY 180/200 • CHEVY 220 CNC

LS3

MANLEY

BIG BLOCK CHEVY 290/315/320/360

FAC
RacingSprings.com

WOLF AIRCRAFT

BIG BLOCK CHEVY 375 “JACKAL” CNC

BIG BLOCK CHEVY 390 “JAILBIRD” CNC

JESEL
VALVETRAIN INNOVATION



CONTACT ONE OF OUR PROUD WAREHOUSE DISTRIBUTORS TO PURCHASE FLOTEK PERFORMANCE CYLINDER HEADS



800 3RD AVE NORTH
MINNEAPOLIS, MN 55405
(612) 377-4520



14600 W 107TH ST
SHAWNEE MISSION, KS 66215
(913) 541-1525



560 E. 25th STREET
JASPER, IN 47546
1-800-639-3787



440 SOUTH BAY ST.
BUNNELL, FL 32110
(785) 623-0963



8300 LANE DRIVE
WATERVLIET, MI 49098
1-800-772-2678



14320 W 99TH ST
LENEXA, KS 66215
1-888-463-0482



P.O. BOX 81906
LINCOLN, NE 68501
1-800-979-0122



3302 US HWY 183 ALT
HAYS, KS 67601
(785) 623-0963



1200 SOUTHEAST AVE.
TALLMADGE, OHIO 44278
1-330-630-0250



960 EAST GLENDALE
AVENUE.
SPARKS, NEVADA 89431
1-775-352-8787



20 KING MILL ROAD.
MCDONOUGH, GEORGIA 30253
1-770-288-3200



2200 EAST INTERSTATE 20
FREEWAY
ARLINGTON, TEXAS 76018
1-682-375-2700

REGIONAL DISTRIBUTORS:

PEP
RITCHIE SEIP
WWW.PRECISIONENGINEPARTS.COM
7240 PLACID ST
LAS VEGAS, NV 89119
(702) 263-6300

PERFORMANCE PRODUCTS
TERRY ANDERSON
PERFORMANCEPRODUCTSTN.COM
1345 CALLAHAN RD
KNOXVILLE, TN 37912
(865) 689-4700
FAX # 865-689-4881

PERFORMANCE WAREHOUSE
TOM KRAFT
31963 BLOCK STREET
GARDEN CITY, MI 48135
(734) 762-6050

RYAN'S PERFORMANCE
PATRICK
711 ENTERPRISE BLVD
LAKE CHARLES, LA 70601
(337) 656-2072

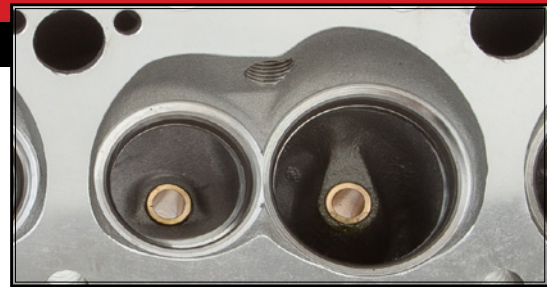
SHANONENGINEERING.COM
SHANON WOLF
3009 NORWAY AVE
STORDEN, WI 56174
(507) 445-3235

RACERDIRECT.NET
JON OR JASON
15835 CORPORATE RD NORTH
JUPITER, FL 33478
(844) 904-7223

PERFORMANCE PARTS
LARRY BARNETT
14320 W 99TH ST
LENEXA, KS 66215
1-800-625-9454



SMALL BLOCK CHEVY 180cc/64cc



Dimensions & Weight

Small Block Chevy Bare	19.8 Pounds
Small Block Chevy Assembled	25.8 Pounds
Length	22"
Width	7"
Height	8.5"

This is where it all started! FLOTEK's 180cc Cylinder Head for Small Block Chevrolet. The small block Chevy 180cc cylinder head was the foundation in 2007 for FLOTEK Performance Heads. Out of the box ready to bolt on. Economically priced!

What matters most? Three things, quality, performance and price! Making FLOTEK 180 cc small block Chevy head the answer! **These are available for 305, 307, 327 & 350. For 400 Motors contact FLOTEK. *283 needs 4 inch Head Gasket**

The features for the FLOTEK 180cc include state of the art casting, 180cc intake ports that are specifically designed for outstanding versatility, and 64cc combustion chamber. These are the most affordable high quality aluminum cylinder heads on the market. The FLOTEK Performance Cylinder Heads series are a line of heads designed by Tri-State Cylinder Head for maximum out-of-the-box horsepower. Standard features are aluminum alloy, phosphorous bronze valve guides, high nickel valve seats, ends milled and drilled for accessories, and a straight or angle spark plug.

FLOTEK inspects each shipment of aluminum heads assuring the customer that they are receiving the best product for the money. 100% assembled in the USA!

Use Push Rod length checker to establish correct length.

• Up to .550 Lift

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

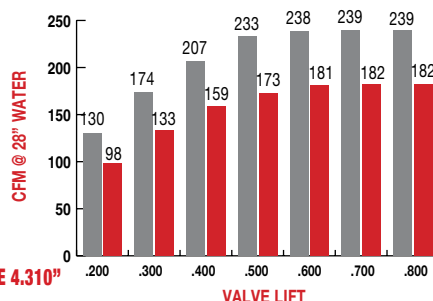
Part Specification

FLOTEK Cylinder Head	ID#	Part Number
SBC Angle Bare	00850134007044	101-500
SBC Straight Bare	00850134007013	102-500
SBC Angle Assembled	00850134007020	101-505
SBC Straight Assembled	00850134007037	102-505
SBC Angle Assembled Flat Tappet	00850134007464	101-505FT
SBC Straight Assembled Flat Tappet	00850134007457	102-505FT

Small Block Chevy 180cc Flow Chart

Intake
Exhaust

600 Super Flow Bench BORE 4.310"



Specifications, Features & Optional Supporting Components

Head Bolt Torque	50-65-80 Ft-Lb, 75 Ft-Lb on Bottom (Permatex#80631)
Rocker Stud Torque.....	45 Ft-Lb
Intake Port Gasket	Fel Pro 1205 or Equivalent
Exhaust Port Gasket	Fel Pro 1404 or Equivalent
Head Gasket	350/383 Fel Pro 1003, Cometic C5399
Head Bolts & Studs	ARP134-3601, Manley 42313, ARP 134-4001
Head Bolt Washers.....	Manley 42102
Suggested Manifold	Performer RPM Air Gap
Spark Plug Starting Range	NGKR5671A-7/4091 Hotter or Colder or Equivalent
Intake Port Volume	180cc
Exhaust Port Volume	62cc
Combustion Chambers	64cc
Max Spring Pocket Diameter.....	1.560"
Rocker Arms	Blumax SBC Aluminum, 1.5:1 3/8 stud, Must have clearance for Retainers

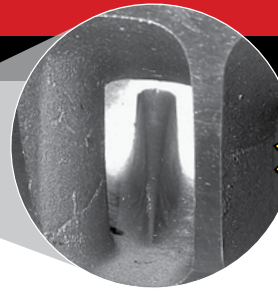
Basic Package Components:

Intake Valve.....	2.02 + .100
Exhaust Valve.....	1.600 + .100
Valve Spring FT	CL120# @ 1.800", OP#290@1.25" C/Bind- 1.160
Valve Spring	CL 130# @ 1.75, OP 310# @ 1.20, C/Bind- 1.160
Outer Spring OD.....	1.46" Single Spring w/damp
Retainers.....	7 Degree Chrome Moly Retainer
Valve Locks.....	7 Degree Chrome Moly Locks
Rocker Stud	3/8" Chrome Moly Rocker Stud 7/16" avail.
Guideplate.....	Hardened Steel FLOTEK Two-piece adjustable Guideplate
Valve Seals.....	Viton Positive Seals
Valve Job	3 Angle
Spring Cup.....	Hardened Steel Cups
Intake Valve Seat.....	Powder Metal
Exhaust Valve Seat.....	Powder Metal
Bronze Valve Guides	Manganese Bronze



SMALL BLOCK CHEVY 200cc/64cc

Solid & Hydraulic Roller



PORT DESIGN BY
**JONES
ENGINEERING**

Dimensions & Weight

Small Block Chevy Bare.....	18.6 Pounds
Small Block Chevy Assembled.....	25 Pounds
Length.....	22"
Width.....	7"
Height.....	8.5"

VALVE SPRINGS:

STREET BUILD - Up to .550 Lift CL 130# @ 1.75, OP 310# @ 1.20 C/Bind 1.160

HYDRAULIC ROLLER (Part# 1200-HRAC-505) - PSK618-1-10 Up to .650 Lift CL142# @ 1.80 OP 400# @ 1.15 C/BIND 1.040 O.D 1.46" Dual I.D. 0.80

SOLID ROLLER (Part# 1200-SRAC-505) - PSK583-1-10 Up to .650 Lift CL 230# @ 1.90 OP 600# @ 1.25 C/BIND 1.15 O.D 1.55" Dual W/D I.D. 0.73

FLOTEK'S small block 200cc ported chamber cylinder head, designed by Jones Engineering, with 23 degree runners make impressive horsepower—power ideal for street-strip ready. Right out of the box, these heads deliver exceptional flow numbers. *These are available for 305, 307, 327 & 350. For 400 Motors contact FLOTEK.*

The features for the FLOTEK 200cc include state of the art casting, versatile 200 cc intake ports that are specifically designed for outstanding versatility, 64 cc combustion chamber. These are the most affordable high quality aluminum cylinder heads on the market. The FLOTEK Performance Cylinder Heads series are a line of heads designed by Tri-State Cylinder Head for maximum out-of-the-box horsepower. Standard features are aluminum alloy, phosphorous bronze valve guides, high nickel valve seats, ends milled and drilled for accessories, offered in solid or hydraulic. **Great for 383, 350, or 400 Stroker.**

FLOTEK inspects each shipment of aluminum heads offered in Straight or Angle assuring the customer that they are receiving the best products for the money. 100% assembled in the USA!

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

Use Push Rod length checker to establish correct length.

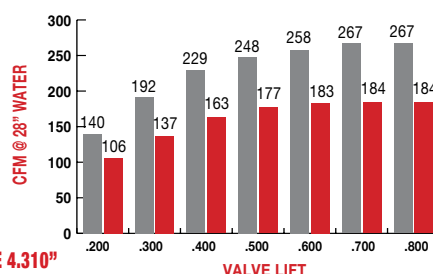
Part Specification

FLOTEK Cylinder Head	ID#	Part Number
SBC 200 Angle Bare	00850134007204	1200-AC-500A
SBC 200 Straight Bare	00850134007211	1200-AC-500S
SBC 200 Hydraulic Roller Angle Assembled	00850134007242	1200-HRAC-505A
SBC 200 Hydraulic Roller Straight Assembled	00850134007259	1200-HRAC-505S
SBC 200 Solid Roller Straight Assembled	00850134007266	1200-SRAC-505S
SBC 200 Solid Roller Angle Assembled	00850134007273	1200-SRAC-505A
SBC 200 Street Build Hydraulic Roller Straight Assembled	00850134007235	1200-HRSB-505S
SBC 200 Street Build Hydraulic Roller Angle Assembled	00850134007228	1200-HRSB-505A

Small Block Chevy 200cc Flow Chart

Intake
Exhaust

600 Super Flow Bench BORE 4.310"



Specifications, Features & Optional Supporting Components

Head Bolt Torque	50-65-80 Ft-Lb, 75 Ft-Lb on Bottom (Permatex#80631)
Rocker Stud Torque.....	45 Ft-Lb
Intake Port Gasket	Fel Pro 1205 or Equivalent
Exhaust Port Gasket	Fel Pro 1404 or Equivalent
Head Gasket	350/383 Fel Pro 1003, Cometic C5399
Head Bolts & Studs.....	ARP134-3601
Head Bolt Washers.....	Manley 42102
Suggested Manifold	Performer RPM Air Gap
Spark Plug Starting Range	NGKR5671A-7/4091 Hotter or Colder or Equivalent
Intake Port Volume	200 cc
Exhaust Port Volume	78 cc
Combustion Chambers	64cc
Max Spring Pocket Diameter.....	1.560"
Street Build Spring	1.46" Single W/D
Hydraulic Roller Spring Kit	1.46" Dual Spring -PSK618-1-10
Solid Roller Spring Kit.....	1.55" Dual Spring -PSK583-1-10
Hydraulic Roller/Street Build Intake Valve	2.02 + .100
Hydraulic Roller/Street Build Exhaust Valve	1.600 + .100
Hydraulic Roller Intake Valve.....	2.05 + .200
Hydraulic Roller Exhaust Valve	1.60 + .200
Solid Roller Intake Valve.....	2.02 + .200
Solid Roller Exhaust Valve.....	1.600 + .200
Rocker Arms	Blumax SBC Aluminum, 1.5:1 3/8 stud, Must have clearance for Retainers
Push Rods.....	Hardened Push Rods

Basic Package Components:

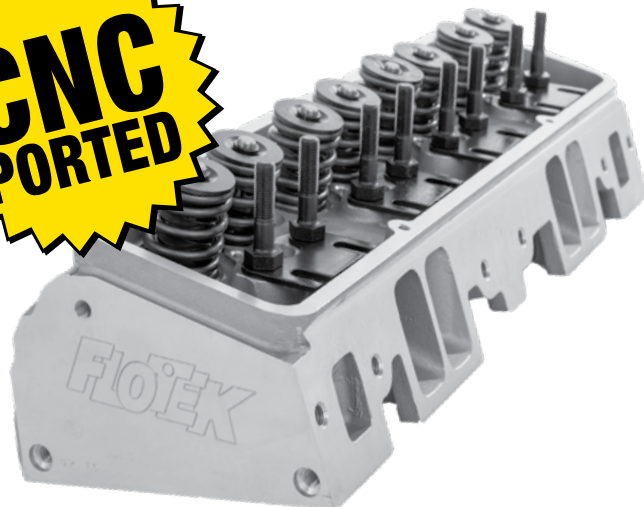
Retainers.....	SB - 7 Degree, HR/SR - 10 Degree Retainer
Valve Locks.....	SB - 7 Degree, HR/SR - 10 Degree Locks
Rocker Stud	SB - 3/8", HR/SR - 7/16" Chrome Moly Rocker Stud
Guideplate.....	Hardened Steel FLOTEK Two-piece adjustable Guideplate
Valve Seals.....	Viton Positive Seals
Spring Cup.....	Hardened Steel Cups
Intake Valve Seat.....	Powder Metal
Exhaust Valve Seat.....	Powder Metal
Bronze Valve Guides	Manganese Bronze

SMALL BLOCK CHEVY 220cc/72cc

CNC Solid & Hydraulic Roller



**CNC
PORTED**



If you are serious about horsepower, then we have your solution, the FLOTEK's 220 CNC Performance Cylinder Head. The superior port and chamber design offers maximum air flow. Built with various spring combinations like solid and hydraulic for different cam set ups! Incredible performance at an affordable price. This is not your typical Chevy Head...FLOTEK's 220 CNC is a Serious Head for Serious Horsepower! Enough said! *These are available for 305, 307, 327 & 350. For 400 Motors contact FLOTEK.*

VALVE SPRINGS:

HYDRAULIC ROLLER (Part# 1220-HRCNC-505) - PSK618-1-10 Up to .650 Lift
CL142# @ 1.80 OP 400# @ 1.15 C/BIND 1.040 O.D 1.46" Dual I.D. 0.80

SOLID ROLLER (Part# 1220-SRCNC-505) - PSK583-1-10 Up to .650 Lift
CL 230# @ 1.90 OP 600# @ 1.25 C/BIND 1.15 O.D 1.55" Dual W/D I.D. 0.73

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

Use Push Rod length checker to establish correct length.

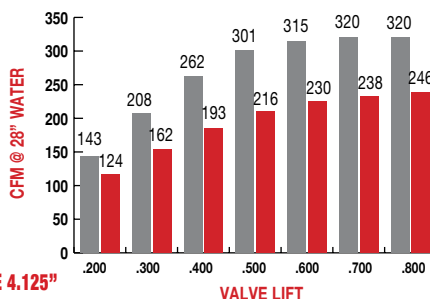
Part Specification

FLOTEK Cylinder Head	ID#	Part Number
SBC 220 CNC Angle Bare	00850134007310	1220-CNC-500
SBC 220 CNC Hydraulic Roller Angle Assembled	00850134007334	1220-HRCNC-505
SBC 220 CNC Solid Roller Angle Assembled	00850134007327	1220-SRCNC-505

Small Block Chevy 220cc Flow Chart

Intake
Exhaust

600 Super Flow Bench BORE 4.125"



Dimensions & Weight

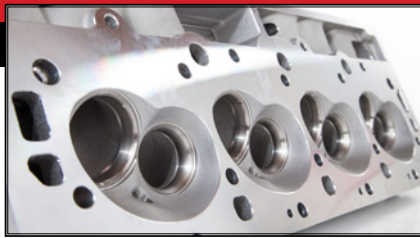
Small Block Chevy Bare	18 Pounds
Small Block Chevy Assembled	24.8 Pounds
Length	22"
Width	7"
Height	8.5"

Specifications, Features & Optional Supporting Components

Head Bolt Torque	50-65-80 Ft-Lb, 75 Ft-Lb on Bottom (Permatex#80631)
Rocker Stud Torque	45 Ft-Lb
Intake Port Gasket	Fel Pro 1207 or Equivalent
Exhaust Port Gasket	Fel Pro 1404 or Equivalent
Head Gasket	350/383 Fel Pro 1003, Cometic C5399
Head Bolts & Studs	ARP134-3601, Manley 42313, ARP 134-4001
Head Bolt Washers	Manley 42102
Suggested Manifold	Super Victor
Spark Plug Starting Range	NGKR5671A-7/4091 Hotter or Colder or Equivalent
Intake Port Volume	220 cc
Exhaust Port Volume	84 cc
Combustion Chambers	72cc
Max Spring Pocket Diameter	1.630"
Valve Spacing	1.90"
Rocker Arms	Must have Clearance for Valve Spring Retainer
Hydraulic Roller Spring Kit	1.46" Dual Spring -PSK618-1-10
Solid Roller Spring Kit	1.55" Dual Spring -PSK583-1-10
Hydraulic Roller Intake Valve	2.08 + .100
Hydraulic Roller Exhaust Valve	1.60 + .100
Solid Roller Intake Valve	2.08 + .200
Solid Roller Exhaust Valve	1.60 + .200
Minimum Cross Sectional Area	2.185"

Basic Package Components:

Retainers	10 Degree Retainer
Valve Locks	10 Degree Locks
Rocker Stud	7/16" Rocker Stud
Guideplate	Hardened Steel FLOTEK Two-piece adjustable Guideplate
Valve Seals	Viton Positive Seals
Spring Cup	Hardened Steel Cups
Intake Valve Seat	Powder Metal
Exhaust Valve Seat	Powder Metal
Bronze Valve Guides	Manganese Bronze



FLOTEK's medium sized 290cc oval port cylinder head with 112 combustion chamber is recommended for moderate street or street/strip big block Chevys with displacements up to 509 cubic inches, operating at or below 6500 RPM. Capable of flowing 367 CFM at 0.600" of lift; tested on Super Flow Bench 1020. It may be necessary to slightly clearance or modify the piston due to our more efficient heart shaped combustion chamber design with some domed aftermarket pistons, most of the newer designed dome profiles will clear. FLOTEK recommends material be removed from the piston and not the cylinder head. Our combustion chamber shapes are very critical to flow and altering the cylinder head can unfavorably affect flow and power performance. It is the customer's responsibility to verify proper piston to head clearance. Heads are designed for 3/8" pushrods. Larger pushrods will not fit without clearance and is not recommended since some areas are very thin. FLOTEK recommends the use of .120" thick-wall pushrods.

Use Push Rod length checker to establish correct length.

VALVE SPRINGS:

HYDRAULIC ROLLER (Part# 290-600) - PSK-236-1-7 Up to .600 Lift CL 147# @ 1.90 OP 365# @ 1.22 C/BIND 1.12 O.D 1.53" Dual W/D I.D. 1.12

SOLID ROLLER (Part# 290-6058) - PSK623-1-10 Up to .680 Lift CL 290# @ 1.90 OP 625# @ 1.30 C/BIND 1.17 O.D 1.62" Dual W/D I.D. 0.74

SOLID ROLLER (Part# 290-5059) - PAC1224 Up to .850 Lift CL 275# @ 2.00 OP 810# @ 1.150 C/BIND 1.100 O.D 1.62" Dual I.D. 0.85

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

- Headers will bolt on in most applications. Some may have interference.
- Recommendations: Hooker Super Comp Headers / WOOLF AIRCRAFT
- Stock Bolt Spread
- May be necessary to use lowered motor mounts

Dimensions & Weight

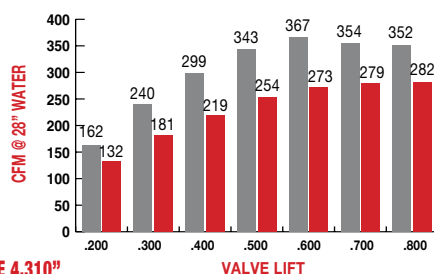
Small Block Chevy Bare.....	32.2 Pounds
Small Block Chevy Assembled.....	40.8 Pounds
Length.....	24.5"
Width.....	10.5"
Height.....	9"

Part Specification

FLOTEK Cylinder Head	ID#	Part Number
BBC 290 Bare	850134007433	290-500
BBC 290 Hyd Roller Assembled	850134007648	290-600
BBC 290 Solid Roller Assembled	850134007655	290-6058
BBC 290 Solid Roller PAC Assembled	850134007556	290-5059

Big Block Chevy 290cc Flow Chart

Intake
Exhaust



600 Super Flow Bench BORE 4.310"

Specifications, Features & Optional Supporting Components

Head Bolt Torque	75 Ft Lbs w/ oil
Rocker Stud Torque.....	50 Ft Lbs w/ oil
Stud Girdle.....	Harland Sharpe G1114 (7/16)
Intake Port Volume	.290cc
Intake Port Dimension	2.030"H x 1.830"W x 1/2 Radius
Intake Port Location	Stock
Exhaust Port Volume	.135cc
Exhaust Port Dimension	1.770"H x 2.010" W
Exhaust Port Location	.375" Raised
Combustion Chamber Size.....	.112cc
Valve Job	.3 Angle
Valve Cover Bolt Pattern	Perimeter Bolt
Valve Angle	24°/4° Int, 15°/4° Exh
Valve Spring Pocket Diameter	1.725" O.D
Max Valve Spring Pocket Machining	1.750" O.D
Deck Thickness.....	.750"
Minimum Bore Diameter.....	4.250"
Flat Mill	.006" per cc/ Maximum 102cc
Angle Mill	.009" per cc/ Maximum 97cc
Note: Angle mills might require a .120" Thick intake gasket.	
Minimum Cross Sectional Area	2.895 sq. in.
Spark Plug Dimensions	14mm x .750" w/Gasket Seat

Recommended Componentets:

Intake Valve Hydraulic.....	2.30 +.250
Exhaust Valve Hydraulic	1.880 Stock Length
Intake Valve Solid	2.30 +.250
Exhaust Valve Solid.....	1.880 +.100
Head Gasket	Fel-Pro #1017
Intake Gasket	Mr. Gasket 107
Exhaust Gasket	Mr. Gasket 5911
Head Bolts	ARP 135-3703 (Mark IV), ARP 135-3707 (Mark V)
Head Studs	ARP 235-4713
Head Bolt Washers.....	Manley
7/16 Stud Mount Rocker Arms	1.7 Ratio (For Optimized Geometry)
Suggested Manifold	Victor Jr, RPM Performer
Spark Plug Starting Range	Autolite 3924
11/32" Intake Valve	2.230" x 5.500" O.A.L
11/32" Nail Head Exhaust Valve	1.880" x 5.450" Overall Valve Length
Manley 10" Steel Retainers	1.500" O.D. x 1.120" I.D. x .375" I.D.
Valve Locks with lashcap recess	10" 11/32"
Rocker Exhaust Studs.....	ARP 7/16"
Rocker Intake Studs.....	ARP 7/16"
Guide Plates.....	1 Piece
Valve Seals.....	11/32" Viton
Hardened Valve Spring.....	I.D Locator 1.550" O.D x .780" I.D
Intake Valve Seats	2.450" O.D x 1.950" I.D x .375" Deep
Exhaust Valve Seats	2.000" O.D x 1.580" I.D x .375" Deep
11/32" Intake Bronze Valve Guides	.502" O.D x 2.10" O.A.L
Valve Locks.....	7 Degree and 10 Degree
Rocker Stud	Must have Clearance for Valve Spring Retainers
Valve Seals.....	Viton Positive Seals
Spring Cup.....	Hardened Steel Cups
Intake Valve Seat.....	Powder Metal
Exhaust Valve Seat.....	Powder Metal
Bronze Valve Guides	Manganese Bronze

BIG BLOCK CHEVY 315cc/121cc



Introducing the **ALL-NEW**, Exceptional Steel Cast Big Block Chevy 315 cc head from FLOTEK! With a beautiful **Polycrystalline Diamond Cut finish**, and cast from a permanent steel mould, this makes the FLOTEK Cylinder Head an easy choice! Unbeatable design, superb performance and exceptional pricing accomplish everything for the street or strip enthusiast!

A powerful, out-of-the-box cylinder head design matched with an outstanding, unbeatable casting technology. We are here to tell you...this BBC head does just that! FLOTEK Aluminum Cylinder Heads are a great choice for out of the box horse power. These FLOTEK Cylinder have thick Deck Design and High Capacity water jackets that makes them a reliable choice for street or strip applications.

The FLOTEK BBC 315 takes stock pistons and has raised valve cover rails. The BBC 315 **Exhaust Port location is raised .360"**.

Use Push Rod length checker to establish correct length.

VALVE SPRINGS:

HYDRAULIC ROLLER (Part# 315-600) - PSK-236-1-7 Up to .600 Lift CL 147# @ 1.90 OP 365# @ 1.22 C/BIND 1.12 O.D 1.53" Dual W/D I.D. 1.12

SOLID ROLLER (Part# 315-6058) - PSK623-1-10 Up to .680 Lift CL 290# @ 1.90 OP 625# @ 1.30 C/BIND 1.17 O.D 1.62" Dual W/D I.D. 0.74

SOLID ROLLER (Part# 315-5059) - PAC1224 Up to .850 Lift CL 275# @ 2.00 OP 810# @ 1.150 C/BIND 1.100 O.D 1.62" Dual I.D. 0.85

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

- **Headers will bolt on in most applications. Some may have interference.**
- **Recommendations: Hooker Super Comp Headers / WOOLF AIRCRAFT**
- **Stock Bolt Spread**
- **May be necessary to use lowered motor mounts**

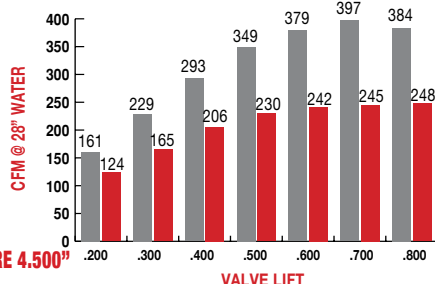
Part Specification

FLOTEK Cylinder Head	ID#	Part Number
BBC 315 Bare	850134007389	315-500
BBC 315 Hyd Roller Assembled	850134007662	315-600
BBC 315 Solid Roller Assembled	850134007679	315-6058
BBC 315 Solid Roller PAC Assembled	850134007563	315-5059

Big Block Chevy 315 Flow Chart

Intake
Exhaust

600 Super Flow Bench BORE 4.500"



Dimensions & Weight

Big Block Chevy Bare.....	31 Pounds
Big Block Chevy Assembled	39.6 Pounds
Length.....	24.5"
Width	10.5"
Height	9"

Specifications, Features & Optional Supporting Components

Head Bolt Torque	75 Ft Lbs w/ oil
Rocker Stud Torque.....	50 Ft Lbs w/ oil
Intake Port Gasket	Fel Pro 1252-3 (320) Fel Pro 1211 (360)
Exhaust Port Gasket	Fel Pro 1404
Head Gasket	Fel Pro 1017-1
Head Bolts & Studs.....	ARP 135-3703 (12pt) 135-3606 (6pt) 235-4303 (Stud)
Stud Girdle.....	Harland Sharpe G1114 (7/16)
Suggested Manifold	Victor Jr, Super Victor
Spark Plug Starting Range.....	14mm (.750) Accel #416
Intake Port Volume	315 cc
Exhaust Port Volume	121cc
Intake Valve Diameter (in)	2.30 in
Exhaust Valve Diameter (in)	1.88 in
Intake Valve Angle.....	24/4
Exhaust Valve Angle.....	15/4
Valve Guide Material.....	Bronze
Valve Seat Machine Style	3-Angle
Combustion Chambers	121cc
Valve Job	3 Angle
Max Spring Pocket Diameter.....	1.625" O.D.
Rocker Arm Nut Thread Size	7/16-20 in
Valve Cover Mounting Style.....	Perimeter Bolt
Accessory Bolt Holes Drilled	Yes

Basic Package Components:

Intake Valve Hydraulic	2.30 +.250
Exhaust Valve Hydraulic	1.880 Stock Length
Intake Valve Solid	2.30 +.250
Exhaust Valve Solid	1.880 +.100
Retainers.....	Hardened Chrome Moly
Guide Plates.....	1 Piece
Rocker Stud	Must have Clearance for Valve Spring Retainers
Valve Seals.....	Viton Positive Seals
Spring Cup	Hardened Steel Cups
Valve Seat Material.....	Powdered Metal
Valve Guides	Manganese Bronze
Valve Locks	7 Degree and 10 Degree



BIG BLOCK CHEVY 320cc/133cc



FLOTEK Recommended Setup:

Header - Based on Chassis-2 1/8"

Rocker Arms - Isky Roller Rockers 204-96 1.75:1 or Equivalent

Intake Manifold - Victor JR or Super Victor

A powerful, out-of-the-box cylinder head design matched with an outstanding, unbeatable casting technology. We are here to tell you...this BBC head does just that! FLOTEK Aluminum Cylinder Heads are a great choice for out of the box horse power. These FLOTEK Cylinder thick Deck Design and High Capacity water jackets that makes them a reliable choice for street or strip applications.

The FLOTEK BBC 320 takes stock pistons and has raised valve cover rails. The BBC 320 Exhaust Port location is raised .500.

Use Push Rod length checker to establish correct length.

VALVE SPRINGS:

HYDRAULIC ROLLER (Part# 305-600) - PSK-236-1-7 Up to .600 Lift CL 147# @ 1.90 OP 365# @ 1.22 C/BIND 1.12 O.D 1.53" Dual W/D I.D. 1.12

SOLID ROLLER (Part# 305-6058) - PSK623-1-10 Up to .680 Lift CL 290# @ 1.90 OP 625# @ 1.30 C/BIND 1.17 O.D 1.62" Dual W/D I.D. 0.74

SOLID ROLLER (Part# 305-5059) - PAC1224 Up to .850 Lift CL 275# @ 2.00 OP 810# @ 1.150 C/BIND 1.100 O.D 1.62" Dual I.D. 0.85

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

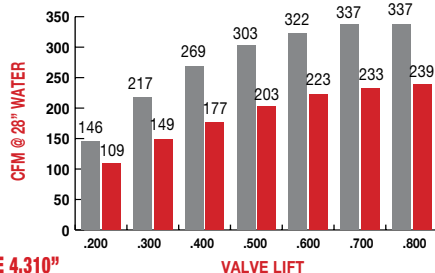
- Headers will bolt on in most applications. Some may have interference.
- Recommendations: Hooker Super Comp Headers / WOOLF AIRCRAFT
- Stock Bolt Spread
- May be necessary to use lowered motor mounts

Part Specification

FLOTEK Cylinder Head	ID#	Part Number
BBC 320 Bare	850134007112	306-500
BBC 320 Hyd Roller Assembled	850134007686	305-600
BBC 320 Solid Roller Assembled	850134007693	305-6058
BBC 320 Solid Roller PAC Assembled	850134007570	305-5059

Big Block Chevy 320 Flow Chart

Intake
Exhaust



600 Super Flow Bench BORE 4.310"

VALVE LIFT



Dimensions & Weight

Big Block Chevy Bare.....	32 Pounds
Big Block Chevy Assembled	40.6 Pounds
Length	24.5"
Width	10.5"
Height	9"

Specifications, Features & Optional Supporting Components

Head Bolt Torque	75 Ft Lbs w/ oil
Rocker Stud Torque.....	50 Ft Lbs w/ oil
Intake Port Gasket	Fel Pro 1252-3 (320) Fel Pro 1211 (360)
Exhaust Port Gasket	Fel Pro 1404
Head Gasket	Fel Pro 1017-1 (4.500) 1057 (4.630)
Head Bolts & Studs.....	ARP 135-3603 (12pt) 135-3606 (6pt) 235-4303 (Stud)
Stud Girdle.....	Harland Sharpe G1114 (7/16)
Suggested Manifold	Victor Jr, Super Victor
Spark Plug Starting Range	14mm (.750) Accel #416
Intake Port Volume	320 cc
Exhaust Port Volume	128cc
Intake Valve Angle.....	24/4
Exhaust Valve Angle.....	15/4
Combustion Chambers	133cc
Valve Job	3 Angle
Max Spring Pocket Diameter.....	1.725" O.D.

Basic Package Components:

Intake Valve Hydraulic	2.250 +.250
Exhaust Valve Hydraulic	1.880 Stock Length
Intake Valve Solid	2.250 +.250
Exhaust Valve Solid	1.880 +.100
Retainers.....	Hardened Chrome Moly
Guide Plates.....	1 Piece
Rocker Stud	Must have Clearance for Valve Spring Retainers
Valve Seals.....	Viton Positive Seals
Spring Cup.....	Hardened Steel Cups
Intake Valve Seat.....	Powder Metal
Exhaust Valve Seat.....	Powder Metal
Bronze Valve Guides	Manganese Bronze
Valve Locks.....	7 Degree and 10 Degree

BIG BLOCK CHEVY 360cc/133cc



FLOTEK Recommended Setup:

Header - Based on Chassis-2 1/8"

Rocker Arms - Isky Roller Rockers 204-96 1.75:1 or Equivalent

Intake Manifold - Victor JR or Super Victor

FLOTEK Performance Big Block Chevy Cylinder Heads are manufactured from cast aluminum and are designed to meet the demands of the big block Chevy enthusiast while retaining high quality at a reasonable price! Perfect for all high performance street/strip, racing, and marine applications, FLOTEK's 360 cylinder heads for big block Chevy deliver exceptional power potential and competition level durability. Features include rectangular intake runners for strong mid-to high-rpm performance.

The FLOTEK BBC 360 takes stock pistons with raised valve cover. The BBC 360 Exhaust Port location is raised .500.

Use Push Rod length checker to establish correct length.

VALVE SPRINGS:

HYDRAULIC ROLLER (Part# 407-600) - PSK-236-1-7 Up to .600 Lift CL 147# @ 1.90 OP 365# @ 1.22 C/BIND 1.12 O.D 1.53" Dual W/D I.D. 1.12

SOLID ROLLER (Part# 407-6058) - PSK623-1-10 Up to .680 Lift CL 290# @ 1.90 OP 625# @ 1.30 C/BIND 1.17 O.D 1.62" Dual W/D I.D. 0.74

SOLID ROLLER (Part# 407-5059) - PAC1224 Up to .850 Lift CL 275# @ 2.00 OP 810# @ 1.150 C/BIND 1.100 O.D 1.62" Dual I.D. 0.85

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

- Headers will bolt on in most applications. Some may have interference.
- Recommendations: Hooker Super Comp Headers / WOOLF AIRCRAFT
- Stock Bolt Spread
- May be necessary to use lowered motor mounts

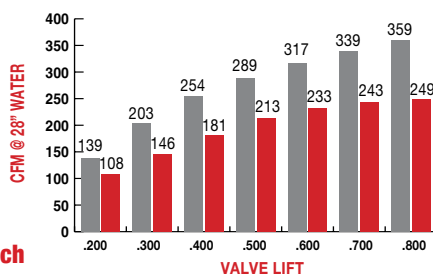
Part Specification

FLOTEK Cylinder Head	ID#	Part Number
BBC 360 Bare	850134007150	408-500
BBC 360 Hyd Roller Assembled	850134007709	407-600
BBC 360 Solid Roller Assembled	850134007716	407-6058
BBC 360 Solid Roller PAC Assembled	850134007587	407-5059

Big Block Chevy 360 Flow Chart

Intake
Exhaust

600 Super Flow Bench



Dimensions & Weight

Big Block Chevy Bare.....	31.2 Pounds
Big Block Chevy Assembled	39.8 Pounds
Length.....	24.5"
Width	10.5"
Height	9"

Specifications, Features & Optional Supporting Components

Head Bolt Torque	75 Ft Lbs w/ oil
Intake Valve Seat.....	Powder Metal
Exhaust Valve Seat.....	Powder Metal
Bronze Valve Guides	Phosphor Bronze
Rocker Stud Torque.....	50 Ft Lbs w/ oil
Intake Port Gasket	Fel Pro 1252-3 (320) Fel Pro 1211 (360)
Exhaust Port Gasket	Fel Pro 1410
Head Gasket	Fel Pro 1017-1 (4.500) 1057 (4.630)
Head Bolts & Studs	ARP 135-3703 (12pt) 135-3606 (6pt) 235-4303 (Stud)
Stud Girdle.....	Harland Sharpe G1114 (7/16)
Suggested Manifold	Victor Jr, Super Victor
Spark Plug Starting Range	14mm (.750) Accel #416
Intake Port Volume	360cc
Exhaust Port Volume	128cc
Combustion Chambers	133cc
Valve Job	3 Angle
Max Spring Pocket Diameter.....	1.725" O.D.

Basic Package Components:

Intake Valve Hydraulic	2.250 +.250
Exhaust Valve Hydraulic	1.880 Stock Length
Intake Valve Solid	2.250 +.250
Exhaust Valve Solid.....	1.880 +.100
Valve Locks	7 Degree and 10 Degree Locks
Guide Plates.....	1 Piece
Rocker Stud	Must have Clearance for Valve Spring Retainers
Valve Seals.....	Viton Positive Seals
Spring Cup	Hardened Steel Cups

FLOTEK Recommended Setup:

Header - Based on Chassis-2 1/8"

Rocker Arms - Isky Roller Rockers 204-96 1.75:1 or Equivalent

Intake Manifold - Victor JR or Super Victor

FLOTEK Performance Big Block Chevy Cylinder Heads are manufactured from cast aluminum and are designed to meet the demands of the big block Chevy enthusiast while retaining high quality at a reasonable price! Perfect for all high performance street/strip, racing, and marine applications, FLOTEK's 360 cylinder heads for big block Chevy deliver exceptional power potential and competition level durability. Features include rectangular intake runners for strong mid-to high-rpm performance.

The FLOTEK BBC 360 takes stock pistons with raised valve cover. The BBC 360 Exhaust Port location is raised .500.

Use Push Rod length checker to establish correct length.

VALVE SPRINGS:

HYDRAULIC ROLLER (Part# 360-600) - PSK-236-1-7 Up to .600 Lift CL 147# @ 1.90 OP 365# @ 1.22 C/BIND 1.12 O.D 1.53" Dual W/D I.D. 1.12

SOLID ROLLER (Part# 360-6058) - PSK623-1-10 Up to .680 Lift CL 290# @ 1.90 OP 625# @ 1.30 C/BIND 1.17 O.D 1.62" Dual W/D I.D. 0.74

SOLID ROLLER (Part# 360-5059) - PAC1224 Up to .850 Lift CL 275# @ 2.00 OP 810# @ 1.150 C/BIND 1.100 O.D 1.62" Dual I.D. 0.85

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

- Headers will bolt on in most applications. Some may have interference.
- Recommendations: Hooker Super Comp Headers / WOOLF AIRCRAFT
- Stock Bolt Spread
- May be necessary to use lowered motor mounts

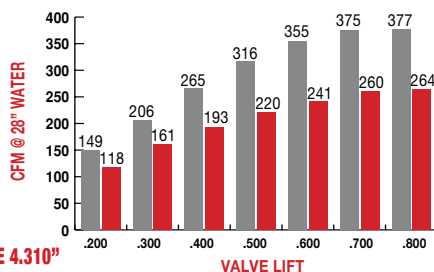
Part Specification

FLOTEK Cylinder Head	ID#	Part Number
BBC 360 Bare	850134007488	360-500
BBC 360 Hyd Roller Assembled	850134007723	360-600
BBC 360 Solid Roller Assembled	850134007730	360-6058
BBC 360 Solid Roller PAC Assembled	850134007600	360-5059

Big Block Chevy 360 Flow Chart

Intake
Exhaust

600 Super Flow Bench BORE 4.310"



Dimensions & Weight

Big Block Chevy Bare.....	31 Pounds
Big Block Chevy Assembled	39.6 Pounds
Length.....	24.5"
Width	10.5"
Height	9"

Specifications, Features & Optional Supporting Components

Head Bolt Torque	75 Ft Lbs w/ oil
Intake Valve Seat.....	Powder Metal
Exhaust Valve Seat.....	Powder Metal
Bronze Valve Guides	Phosphor Bronze
Rocker Stud Torque.....	50 Ft Lbs w/ oil
Intake Port Gasket	Fel Pro 1252-3 (320) Fel Pro 1211 (360)
Exhaust Port Gasket	Fel Pro 1410
Head Gasket	Fel-Pro #1047 (Mark V and VI), Fel-Pro #1017-1 (Mark IV)
Head Bolts	ARP 135-3703 (Mark IV), ARP 135-3707 (Mark V)
Head Studs	ARP 235-4713
Stud Girdle.....	Harland Sharpe G1114 (7/16)
Suggested Manifold	Victor J, Super Victor
Spark Plug Starting Range	Pump Gas 3924 / Race Gas 3922
Intake Port Volume	360cc
Exhaust Port Volume	135cc
Combustion Chambers	121cc
Max Spring Pocket Diameter.....	1.75" O.D.

Basic Package Components:

Intake Valve Hydraulic	2.30 +.250
Exhaust Valve Hydraulic	1.880 Stock Length
Intake Valve Solid	2.30 +.250
Exhaust Valve Solid	1.880 +.100
Valve Locks	7 Degree and 10 Degree Locks
Guide Plates.....	1 Piece
Rocker Stud	Must have Clearance for Valve Spring Retainers
Valve Seals.....	Viton Positive Seals
Spring Cup.....	Hardened Steel Cups

TEAM

WOODY FINLEY

470 CID
JACKAL 375 CNC



CHRISTOPHER HAYES

306 CID
SBF 190 CNC



JOHNNY TOLISANO

363 CID
SBF "The Hammer"
205



JOSEPH PATELUNAS

383 CID
SBC 200 STREET



JOE FOWLER

454 CID
BBC 320 CC



MICHAEL MARTIN

302 CID
SBF 190 CNC



JOHN HUMMEL

289 Hi-Perf CID
SBF 190 CNC



DON FINNEY

357 CID
SBC 210 CNC



JAMIE CARROLL

406 CID
SBC 220 CNC



KENDALL SCHMITT

540 CID
BBC 375 CC



FLOTEK



ANDY BARNES
555 CID



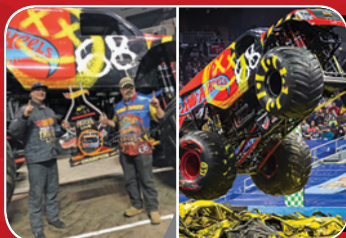
RIGEL STILLMAN
406 CID
SBC 220 CNC



JEFF MCCORMICK
427 CID
BBC 360 CC



ESTREBERTO MARIN
302 CID
SBF 180 CNC



DERICK ANSON
540 CID
BBC 315 CC



GARY GROSS
377 CID
SBC 220 CNC

TROY SCHMITT
421 CID SBC • 220 CNC



MATT TAYLOR
408 CID
"The Hammer"
205



NICK AMY & MARCUS AMY
351 CID
SBF 190 CNC

LS3 276cc/68cc



The new FLOTEK LS3 head features as-cast high flow intake runners that flow significantly better than the stock LS3 heads. In back to back testing at .650 lift the FLOTEK LS3 flow tested 44 CFM better than the stock LS3 heads.

The FLOTEK LS3 has a 276cc intake runner, 92cc exhaust runner, and 68cc combustion chamber. The ports are in the stock location so no special valve train parts or rocker arms are required. The heads are a 15 degree, which is the same as the stock cylinder heads so no special pistons are required. The LS3 will work on any LS block that has a 4.000" bore or bigger. These heads combine high performance and high quality at a value price.

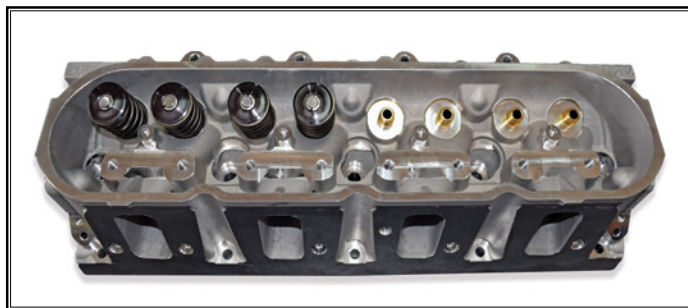
Use Push Rod length checker to establish correct length.

LS7 INTAKES ARE NOT COMPATIBLE

VALVE SPRINGS:

HYDRAULIC ROLLER (Part# LS3-505) - PSK658-152-8-7 Up to .625 Lift CL 142# @ 1.80 OP 385# @ 1.15 C/BIND 1.03 O.D 1.29" Dual I.D. 0.68

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.



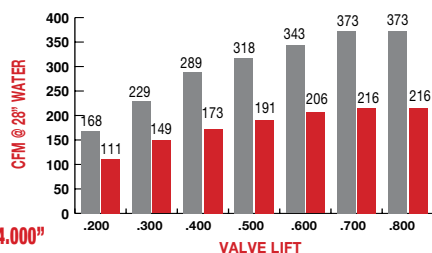
Part Specification

FLOTEK Cylinder Head	ID#	Part Number
LS3 Bare	850134007907	LS3-500
LS3 Assembled	850134007914	LS3-505

LS3 Flow Chart

Intake
Exhaust

600 Super Flow Bench Bore 4.000"



Dimensions & Weight

LS3 Bare	22 Pounds
LS3 Assembled	26 Pounds
Length	24.5"
Width	10.5"
Height	9"

Specifications, Features & Optional Supporting Components

Intake Port Gasket	Fel Pro MS 92438 (GM 19172114)
Exhaust Port Gasket	GM 12617944
Head Gasket	GM 12610046
Head Bolts	GM 17800568
Suggested Manifold	Elderbrock Victor Jr.
Spark Plug	AC DELCO 41-162
Intake Port Volume	276cc
Exhaust Port Volume	92cc
Intake Valve Diameter (in)	2.160 in
Exhaust Valve Diameter (in)	1.59 in
Valve Guide Material	Bronze
Combustion Chambers	68cc
Valve Stem Diameter	.8mm

Basic Package Components:

Intake Valve Hydraulic	2.160
Exhaust Valve Hydraulic	1.59
Retainers	Hardened Chrome Moly
Rocker Stud	N/A
Rocker Arm	GM 12569167/Intake Rocker 1.8
Rocker Arm	GM 10214664/Exhaust Rocker 1.8
Rocker Arm Stand	GM 12600936
Valve Seals	Viton
Spring Cup	Hardened Steel Cups
Valve Seat Material	Powder Metal
Valve Guides	Bronze
Valve Locks	7 degree



Here it is! The BBC Fully CNC Ported FLOTEK "Jackal" 375 cc! Our BIGGEST and MOST POWERFUL out of the box BBC to date. This head is the track dominator! The FLOTEK "Jackal" 375 cc with 435 CFM is just wicked! Designed with the racer in mind, featuring a 127 combustion chamber. The ALL-NEW, Exceptional Steel Cast with a beautiful Polycrystalline Diamond Cut Finish and cast from a permanent steel mold makes the FLOTEK Cylinder Head an easy choice! Unbeatable design, superb performance and exceptional pricing accomplish everything for the marine or strip enthusiast! **The FLOTEK "Jackal" works well with a 540 and 576 cubic inch motors.**

The BBC CNC FLOTEK "Jackal" 375 CNC head is a great choice for out of the box horse power. The FLOTEK "Jackal" 375 CNC Cylinder head has a thick Deck Design and High Capacity water jackets that makes them a reliable choice for racing applications.

Accepts stock pistons, has raised valve cover rails and exhaust port location is raised .360".

Use Push Rod length checker to establish correct length.

VALVE SPRINGS:

SOLID ROLLER (Part# 375-5058) - PAC1224 Up to .850 Lift CL 275# @ 2.00 OP 810# @ 1.150 C/BIND 1.100 O.D 1.62" Dual I.D. 0.85

SOLID ROLLER (Part# 375-5059) - PAC1248 Up to .950 Lift CL 332# @ 2.100 OP 950# @ 1.200 C/BIND 1.130 O.D 1.64" TRIPLE I.D. 0.63

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

- Headers will bolt on in most applications. Some may have interference.
- Recommendations: Hooker Super Comp Headers / WOOLF AIRCRAFT
- Stock Bolt Spread
- May be necessary to use lowered motor mounts
- * Use sealant on bolt threads & washers

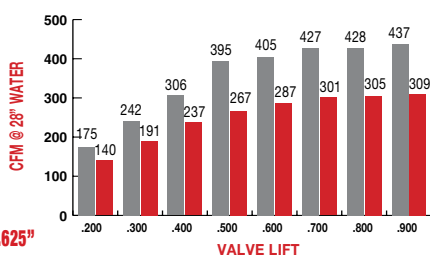
Part Specification

FLOTEK Cylinder Head	ID#	Part Number
BBC 375 CNC Bare	850134007525	375-500
BBC 375 Solid Roller CNC 1224 Assembled	850134007549	375-5058
BBC 375 Solid Roller CNC 1248 Assembled	850134007594	375-5059

Big Block Chevy 375 Flow Chart

Intake
Exhaust

600 Super Flow Bench BORE 4.625"



Dimensions & Weight

Big Block Chevy Bare.....	31 Pounds
Big Block Chevy Assembled	39.6 Pounds
Length	24.5"
Width	10.5"
Height	9"

Specifications, Features & Optional Supporting Components

Head Bolt Torque	75 Ft Lbs w/ oil
Rocker Stud Torque.....	50 Ft Lbs w/ oil
Intake Port Gasket	Fel Pro 1252-3 (320) Fel Pro 1211 (360)
Exhaust Port Gasket	Fel Pro 1404
Head Gasket	Fel Pro 1017-1
Head Bolts & Studs.....	ARP 135-3703 (12pt) 135-3606 (6pt) 235-4303 (Stud)
Stud Girdle.....	Jesol
Suggested Manifold	Victor Jr, Super Victor
Spark Plug Starting Range	14mm (.750) Accel #416
Intake Port Volume	375 cc
Exhaust Port Volume	133 cc
Intake Valve Diameter (in)	2.35 in
Exhaust Valve Diameter (in)	1.88 in
Intake Valve Angle	24/4
Exhaust Valve Angle	15/4
Valve Guide Material.....	Bronze
Valve Seat Machine Style	4-Angle
Combustion Chambers	127cc
Max Spring Pocket Diameter.....	1.625" O.D.
Rocker Arm Nut Thread Size	7/16-20 in
Valve Cover Mounting Style.....	Perimeter Bolt
Accessory Bolt Holes Drilled	Yes
Long Intake Runner	373cc
Short Intake Runner	367cc
Exhaust Runner	133cc

Basic Package Components:

Intake Valve Hydraulic	2.35 +.350
Exhaust Valve Hydraulic	1.880 Stock Length
Intake Valve Solid	2.35 +.350
Exhaust Valve Solid	1.880 +.100
Retainers.....	Hardened Chrome Moly
Guide Plates	COMP CAMS 4811-8
Rocker Stud	Must have Clearance for Valve Spring Retainers
Valve Seals.....	Viton Positive Seals
Spring Cup.....	Hardened Steel Cups
Valve Seat Material.....	Powdered Metal
Valve Guides	Manganese Bronze
Valve Locks	7 Degree and 10 Degree

BIG BLOCK CHEVY 390cc/133cc



JAILBIRD 390



The Fully CNC Big Block Chevy **JAILBIRD 390** is exactly what happens! With CNC porting to offer superior performance, the **JAILBIRD 390** will deliver for larger cubic inch engines of **565-640** allowing aggressive cam profiles to make maximum power. Touting an impressive 467 CFM at .900 lift with professional bowl blending and a competition 6-angle valve job to release its full potential, this is the right head for you! Offered as CNC without bowl blending, the **JAILBIRD 390** produces 436 CFM at .700 lift with 4.625" bore fixture and 426 CFM on 4.50" bore fixture. Either way, you cannot go wrong with the **JAILBIRD 390**! The Jailbird is a perfect choice for Power Header, Nitrous, Super Charger and Boost!

Use Push Rod length checker to establish correct length.

VALVE SPRINGS:

SOLID ROLLER (Part# 390-5058) - Manley Up to .850 Lift CL 280# @ 2.10 OP 794# @ 1.25 NexTek Spring Double C/BIND 1.150"

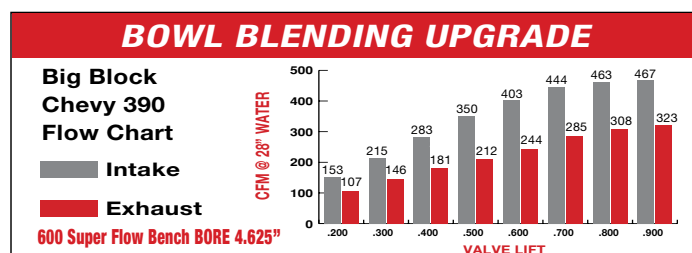
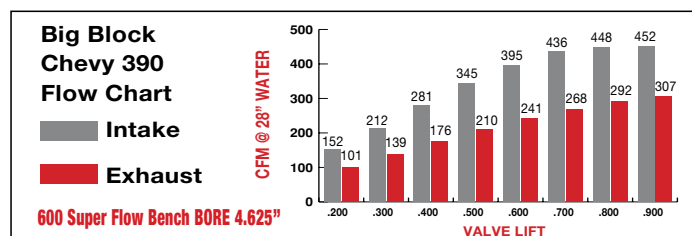
SOLID ROLLER (Part# 390-5059) - PAC1248 Up to .900 Lift CL 332# @ 2.10 OP 950# @ 1.20 C/BIND 1.130

SOLID ROLLER (Part# 390-5060) - PAC1258 Up to .950 Lift CL 350# @ 2.15 OP 1004# @ 1.20 C/BIND 1.130

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

*** Use sealant on bolt threads & washers**

FLOTEK Cylinder Head	ID#	Part Number
BBC 390 Bare	850134007747	390-500
BBC 390 cc Bare Bowl Blended	850134007778	390-500BB
BBC 390 cc Solid Roller Assembled Up to .850 Lift	850134007754	390-5058
BBC 390 cc Solid Roller Assembled Up to .850 Lift Bowl Blended	850134007785	390-5058BB
BBC 390 Assembled up to .900 Lift	850134007761	390-5059
BBC 390 Assembled up to .900 Bowl Blended	850134007792	390-5059BB
BBC 390 Assembled .950 Lift	850134007808	390-5060
BBC 390 .950 lift assembled Bowl blended	850134007815	390-5060BB



Dimensions & Weight

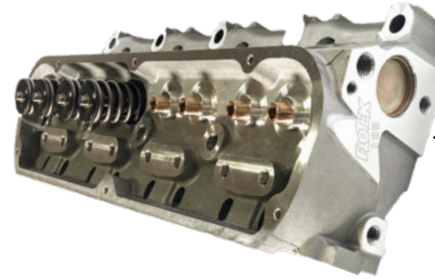
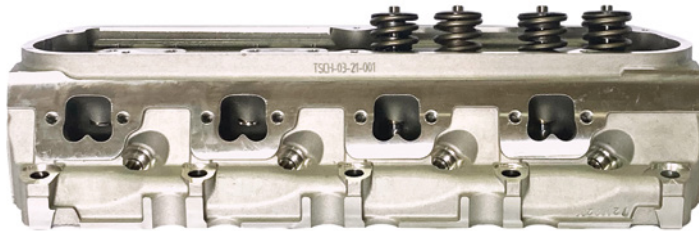
Big Block Chevy Bare.....	31 Pounds
Big Block Chevy Assembled	39.6 Pounds
Length.....	24.5"
Width	10.5"
Height	9"

Specifications, Features & Optional Supporting Components

Head Bolt Torque	75 Ft Lbs w/ oil
Rocker Stud Torque.....	50 Ft Lbs w/ oil
Intake Port Gasket	Fel Pro 1252-3 (320) Fel Pro 1211 (360)
Exhaust Port Gasket	Fel Pro 1404
Head Gasket	Fel Pro 1017-1
Head Bolts & Studs	ARP 135-3703 (12pt) 135-3606 (6pt) 235-4303 (Stud)
Stud Girdle.....	Harland Sharpe G1114 (7/16)
Suggested Manifold	Victor Jr, Super Victor
Spark Plug Starting Range	14mm (.750) Accel #416
Intake Port Volume	390 cc
Exhaust Port Volume	135 cc
Intake Valve Diameter (in)	2.375" + .350
Exhaust Valve Diameter (in)	1.850" + .100
Intake Valve Angle	24/4
Exhaust Valve Angle	15/4
Valve Guide Material.....	Bronze
Valve Seat Machine Style	6-Angle
Combustion Chambers	133cc
Max Spring Pocket Diameter	1.625" O.D.
Rocker Arm Nut Thread Size	7/16-20 in
Valve Cover Mounting Style.....	Perimeter Bolt
Accessory Bolt Holes Drilled	Yes
Long Intake Runner.....	390cc
Short Intake Runner	367cc
Exhaust Runner.....	133cc

Basic Package Components:

Intake Valve.....	2.375" +.350
Exhaust Valve.....	1.850" +.100
Retainers.....	Titanium
Guide Plates.....	COMP CAMS 4811-8
Rocker Stud Mount Must have Clearance for Valve Spring Retainers.....	JESEL Fitting
Headers & Flange Material	WOOLF AIRCRAFT
Valve Seals.....	Viton Positive Seals
Spring Cup	Hardened Steel Cups
Valve Seat Material.....	Powdered Metal
Valve Guides	Manganese Bronze
Valve Locks.....	7 Degree and 10 Degree



**DESIGN
WITH 1 WAY
TECHNOLOGIES**

Dimensions & Weight

Small Block Ford Bare.....	18.6 Pounds
Small Block Ford Assembled.....	24.4 Pounds
Length.....	22"
Width	7"
Height	8.5"

The NEWLY designed THUMPER 180 features a raised "FLOOR" and "ROOF" design. Why you ask? This allows a better approach o the valve when attempting to achieve high performance and to keep air and fuel attached to short turn radius for increased torque over a wider RPM range without sacrificing high RPM power! Coupled with NEW CHAMBER DESIGN for better wet flow quality and a NEW "W" DESIGN EXHAUST PORT to keep flow attached to the port floor which greatly increases exhaust gas evacuation verses original 180cc design. Always thinking of the racer, our FLOTEK THUMPER 180 **accepts stock manifold!**

Use Push Rod length checker to establish correct length.

- Up to .550 Lift
- Does not include Thermactor Plugs (EGR).

FLOTEK RECOMMENDATION:

Trick Flow Small Block Ford TFS 51400265

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

Use Push Rod length checker to establish correct length.

Part Specification

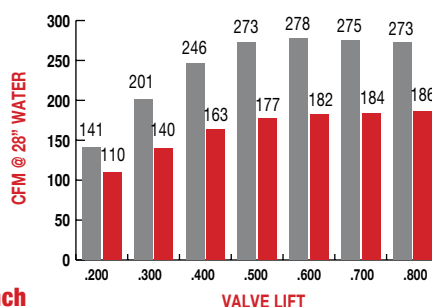
FLOTEK Cylinder Head	ID#	Part Number
SBF Stud and Plate Bare	00850134007921	185-500
SBF Stud and Plate Assembled	00850134007938	185-505
SBF Stud and Plate Flat Tappet Assembled	00850134007945	185-505FT

Small Block Ford 185cc Flow Chart

Intake
Exhaust

Use push rod length checker to establish correct length.

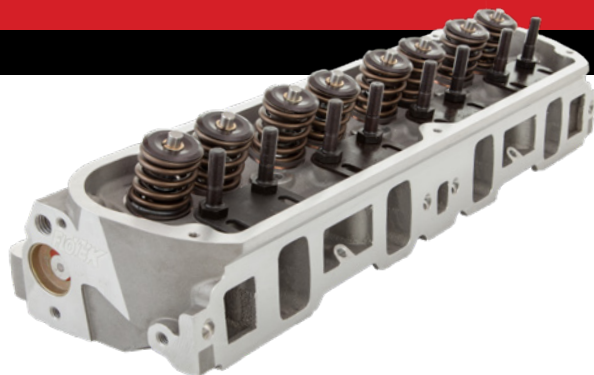
600 Super Flow Bench



Specifications, Features & Optional Supporting Components

Head Bolt Torque	50-65-80 Ft-Lb, 75 Ft-Lb on Bottom (Permatex#80631)
Rocker Stud Torque.....	45- 50 Ft-Lb
Intake Port Gasket	Fel Pro 1262
Exhaust Port Gasket	Fel Pro 1487, MS15129Y
Head Gasket	Fel Pro 1011-1 or 1011-2, M6051-050
Head Bolts & Studs.....	ARP154-3605 (302), ARP154-3603 (351W), ARP254-3708
Head Bolt Washers.....	EDL 9680 (302)
Suggested Manifold	Performer RPM
Spark Plug Starting Range ..	NGK R5671A/4091, AGSF-32C or Equivalent (hotter or colder)
Intake Port Volume.....	185cc
Exhaust Port Volume.....	62cc
Combustion Chambers	60cc
Max Spring Pocket Diameter.....	1.685"
Rocker Arms ... Blumax SBF, 1.6:1 3/8 stud, Must have clearance for Retainers or Scorpion	
Intake Valve.....	2.02
Exhaust Valve.....	1.60
Valve Spring FT	CL120# @ 1.800", OP#290@1.25" C/Bind-1.160
Valve Spring	CL 130# @ 1.75, OP 310# @ 1.20, C/Bind- 1.160
Valve Job	3 Angle
Retainers.....	7 Degree Chrome Moly Retainer
Valve Locks.....	7 Degree Chrome Moly Locks
Rocker Stud	3/8" Chrome Moly Rocker Stud, 7/16" avail.
Guideplate.....	Hardened Steel FLOTEK Two-piece adjustable Guideplate
Valve Seals.....	Viton Positive Seals
Valve Angle	20 Degrees
Spring Cup.....	Hardened Steel Cups
Intake Valve Seat.....	Cast Alloy
Exhaust Valve Seat.....	Cast Alloy
Bronze Valve Guides	Manganese Bronze

SMALL BLOCK FORD 180cc/58cc



Dimensions & Weight

Small Block Ford Bare.....	18.6 Pounds
Small Block Ford Assembled.....	24.4 Pounds
Length.....	22"
Width	7"
Height	8.5"

FLOTEK Performance cylinder heads feature as-cast ports and are designed for entry-level street performance applications operating in the idle-to-5500 rpm range. They are available for **289, 302, 351W** engines. **WILL NOT ACCEPT STOCK PUSHRODS.**

• Up to .550 Lift

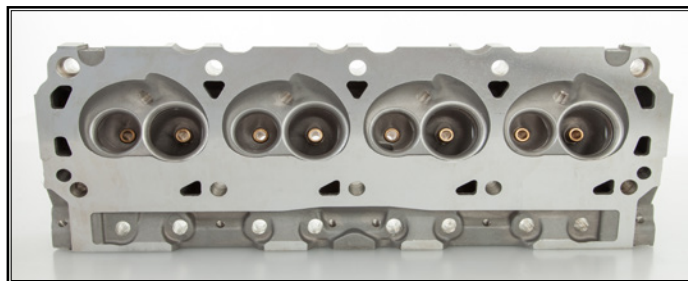
• Does not include Thermactor Plugs (EGR).

FLOTEK RECOMMENDATION:

Trick Flow Small Block Ford TFS 51400265

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

Use Push Rod length checker to establish correct length.



Part Specification

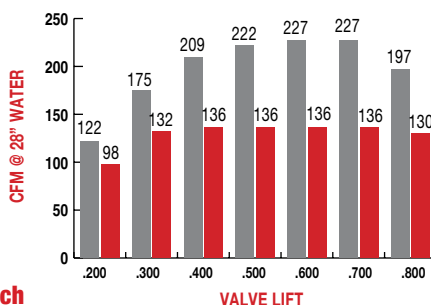
FLOTEK Cylinder Head	ID#	Part Number
SBF Stud and Plate Bare	00850134007051	203-500
SBF Stud and Plate 1.94 Assembled	00850134007075	203-505
SBF Stud and Plate Flat Tappet Assembled	00850134007471	203-505FT
SBF 180 cc Assem Stud/Plate 2.02 Valve	00850134007068	203-5052

Small Block Ford 180cc Flow Chart

Intake
Exhaust

Use push rod length checker to establish correct length.

600 Super Flow Bench



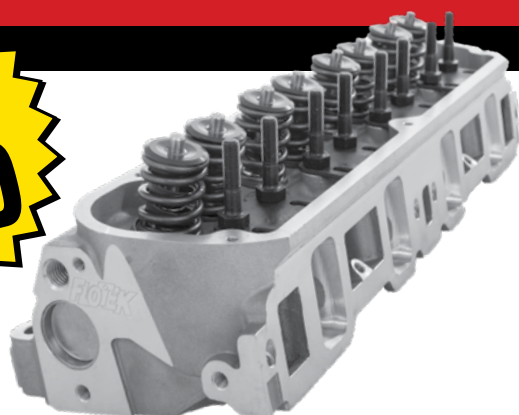
Specifications, Features & Optional Supporting Components

Head Bolt Torque	50-65-80 Ft-Lb, 75 Ft-Lb on Bottom (Permatex#80631)
Rocker Stud Torque.....	45- 50 Ft-Lb
Intake Port Gasket	Fel Pro 1262
Exhaust Port Gasket	Fel Pro 1487, MS15129Y
Head Gasket	Fel Pro 1011-1 or 1011-2, M6051-050
Head Bolts & Studs.....	ARP154-3605 (302), ARP154-3603 (351W), ARP254-3708
Head Bolt Washers.....	EDL 9680 (302)
Suggested Manifold	Performer RPM
Spark Plug Starting Range ..	NGK R5671A/4091, AGSF-32C or Equivalent (hotter or colder)
Intake Port Volume	180cc
Exhaust Port Volume	62cc
Combustion Chambers	58cc
Max Spring Pocket Diameter.....	1.685"
Rocker Arms ... Blumax SBF, 1.6:1 3/8 stud, Must have clearance for Retainers or Scorpion	
Intake Valve.....	1.94
Exhaust Valve.....	1.55
Valve Spring FT	CL120# @ 1.800", OP#290@1.25" C/Bind-1.160
Valve Spring	CL 130# @ 1.75, OP 310# @ 1.20, C/Bind- 1.160
Valve Job	3 Angle
Retainers.....	7 Degree Chrome Moly Retainer
Valve Locks.....	7 Degree Chrome Moly Locks
Rocker Stud	3/8" Chrome Moly Rocker Stud, 7/16" avail.
Guideplate.....	Hardened Steel FLOTEK Two-piece adjustable Guideplate
Valve Seals.....	Viton Positive Seals
Valve Angle	20 Degrees
Spring Cup.....	Hardened Steel Cups
Intake Valve Seat.....	Cast Alloy
Exhaust Valve Seat.....	Cast Alloy
Bronze Valve Guides	Manganese Bronze



SMALL BLOCK FORD 190cc/60cc

CNC Solid & Hydraulic Roller



Dimensions & Weight

Small Block Ford Bare.....	17.6 Pounds
Small Block Ford Assembled.....	24 Pounds
Length.....	22"
Width.....	7"
Height.....	8.5"

VALVE SPRINGS:

HYDRAULIC ROLLER (Part# 2190-HRCNC-505) - PSK618-1-10 Up to .650 Lift
CL142# @ 1.80 OP 400# @ 1.15 C/BIND 1.040 O.D 1.46" Dual I.D. 0.80

SOLID ROLLER (Part# 2190-SRCNC-505) - PSK580-1-10 Up to .650 Lift CL195#
@ 1.80 OP 525# @ 1.15 C/BIND 1.04 O.D 1.50" Dual W/D I.D. 0.80

Something great just got better! FLOTEK has taken its track-proven cylinder head and using advanced 3D solid modeling and CAD tools, plus a nearly a decade's worth of racing experience, has made it even more potent for serious performance enthusiasts and racers.

FLOTEK Ford 190 CNC ported to achieve optimal air-flow for maximum horsepower and torque in high performance street and light duty racing applications. The casting and port designs are all new and engineered for great performance. Fully CNC'd intake ports, combustion chambers and exhaust ports for improved air-flow. FLOTEK's 190 head with CNC Street Ported runners are great entry-level CNC heads combining fully CNC-machined runners and combustion chambers with a standard resolution surface finish for significant performance gains.

Excellent head for 351 or 347 Stroker.

- Does not include Thermactor Plugs (EGR).

FLOTEK RECOMMENDATION: Trick Flow Small Block Ford TFS 51400265

Use Push Rod length checker to establish correct length.

PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

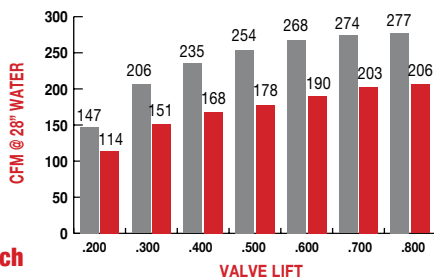
Part Specification

FLOTEK Cylinder Head	ID#	Part Number
SBF 190 CNC Bare	00850134007167	2190-CNC-500
SBF 190 CNC Hydraulic Roller Assembled	00850134007181	2190-HRCNC-505
SBF 190 CNC Solid Roller Assembled	00850134007198	2190-SRCNC-505

Small Block Ford 190cc Flow Chart

Intake
Exhaust

600 Super Flow Bench



Specifications, Features & Optional Supporting Components

Head Bolt Torque.....	50-65-80 Ft-Lb, 75 Ft-Lb on Bottom (Permatex#80631)
Rocker Stud Torque.....	45- 50Ft-Lb 7/16" Stud
Intake Port Gasket.....	Fel Pro 1262
Exhaust Port Gasket.....	Fel Pro 1487, MS15129Y
Head Gasket.....	Fel Pro 1011-1 or 1011-2, M6051-050
Head Bolts & Studs.....	ARP154-3605 (302), ARP154-3603 (351W), ARP254-3708
Head Bolt Washers.....	EDL 9680 (302)
Suggested Manifold.....	Performer RPM
Spark Plug Starting Range ..	NGK R5671A/4091, AGSF-32C or Equivalent (hotter or colder)
Intake Port Volume	190 cc
Exhaust Port Volume	71 cc
Combustion Chambers	60cc
Max Spring Pocket Diameter.....	1.560"
Hydraulic Roller Spring Kit	1.46" Dual PSK618-1-10
Solid Roller Spring Kit	1.50" Dual W/D PSK580-1-10
Rocker Arms	91511772SW
Rocker Arms ...	Blumax SBF, 1.6:1 3/8 stud, Must have clearance for Retainers or Scorpion
Push Rods.....	Hardened Push Rods
Minimum Cross Sectional Area.....	2.320"

Basic Package Components:

Solid Roller Intake Valve.....	2.02 + .100
Solid Roller Exhaust Valve.....	1.55 + .100
Hydraulic Intake Valve	2.02 + .100
Hydraulic Exhaust Valve	1.55 + .100
Retainers.....	HR/SR - 10 Degree Chrome Moly Retainer
Valve Locks	HR/SR - 10 Degree Chrome Moly Locks
Rocker Stud	HR/SR - 7/16" Chrome Moly Rocker Stud
Guideplate.....	Hardened Steel FLOTEK Two-piece adjustable Guideplate
Valve Seals.....	Viton Positive Seals
Valve Angle	20 Degrees
Spring Cup.....	Hardened Steel Cups
Intake Valve Seat.....	Cast Alloy
Exhaust Valve Seat.....	Cast Alloy
Bronze Valve Guides	Manganese Bronze

SMALL BLOCK FORD 205cc/60cc

"THE HAMMER"



Here we go again! FLOTEK Performance Cylinder Head debuts the NEW-AS-CAST Small Block Ford Head for Fall of 2018. "The Hammer" 205 cc features as-cast ports and is designed for street or strip performance applications operating in **7200-7400 RPM range**. FLOTEK'S "The Hammer" 205 cc head works great with **high-revving** Small Block Ford **289, 302 and 351w** based engines providing race-level performance while maintaining full compatibility **with OEM equipment**. Featuring a 60 cc combustion chamber, 205 cc intake port volume, 70 cc exhaust port volume and featuring 8mm bead lock valves. "The Hammer" will let your engine BREATHE to make big time power on full throttle strokers! The exhaust port location is raised 0.125" to aid in water jacket design and allow for a full 0.750" fire deck for those high compression, blown, or nitrous applications! FLOTEK Performance Cylinder Head offers "The Hammer" 205 cc for serious performance enthusiasts and racers. Let us just say...Hammer Down!

Use Push Rod length checker to establish correct length.

VALVE SPRINGS:

HYDRAULIC ROLLER (Part# 2205-HR-505) - FTK1000 Up to .600 Lift CL135# @ 1.80 OP 340# @ 1.23 C/BIND 1.050 O.D 1.29" Dual I.D. 0.68

SOLID ROLLER (Part# 2205-SR-505) - FTK2000 Up to .710 Lift CL225# @ 1.95 OP 600# @ 1.250 C/BIND 1.15 O.D 1.55" Dual I.D. 0.80

• Does not include Thermactor Plugs (EGR).

FLOTEK RECOMMENDATION:

Trick Flow Small Block Ford TFS 51400265

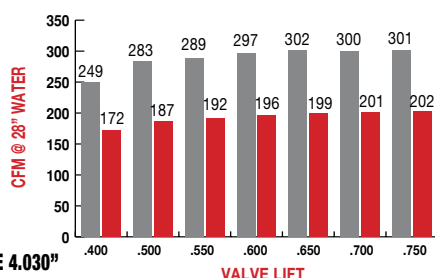
PAC, MANLEY, COMP CAM SPRINGS & CUSTOM BUILDS ARE AVAILABLE UPON REQUEST.

Part Specification

FLOTEK Cylinder Head	ID#	Part Number
SBF 205 Bare	00850134007617	2205-500
SBF 205 Hydraulic Roller Assembled	00850134007624	2205-HR-505
SBF 205 Solid Roller Assembled	00850134007631	2205-SR-505

Small Block Ford 205cc Flow Chart

Intake
Exhaust



600 Super Flow Bench BORE 4.030"

Dimensions & Weight

Small Block Ford Bare.....	18.6 Pounds
Small Block Ford Assembled.....	24.4 Pounds
Length.....	22"
Width.....	7"
Height.....	8.5"

Specifications, Features & Optional Supporting Components

Head Bolt Torque	50-65-80 Ft-Lb, 75 Ft-Lb on Bottom (Permatex#80631)
Rocker Stud Torque.....	45- 50 Ft-Lb
Intake Port Gasket	FEL-PRO #1262
Exhaust Port Gasket	FEL-PRO #1487
Head Gasket	FEL-PRO #1011-1
Bolt Head Bolt Kit	ARP #154-3603
Bolt Head Stud Kit	ARP #254-4503
7/16 Thread Head Bolts	ARP #254-3708
Suggested Manifold	Super Victor/Victor Jr.
Spark Plug Fitment.....	14mm x 3/4" Reach, Gasket Seat Autolite #3922
Intake Port Volume.....	205 cc
Intake Port Shape	Rectangular
Exhaust Port Volume.....	70 cc
Combustion Chamber Style	Heart
Max Spring Pocket Diameter.....	1.625" O.D.
Hydraulic Roller Spring Kit	FTK8017
Solid Roller Spring Kit	FTK8000
Rocker Arms	91511772SW
Push Rods.....	Hardened
Rocker Arms ... Blumax SBF, 1.6:1 3/8 stud, Must have clearance for Retainers or Scorpion	
Minimum Cross Sectional Area.....	2.165"
Exhaust Runner Volume	60 cc
Intake Valve Diameter.....	2.08"
Exhaust Valve Diameter.....	1.60"
Valve Stem Diameter	8mm
Deck Thickness.....	.750"
Valve Spring Diameter	1.580" O.D.

Basic Package Components:

Solid Roller Intake Valve	2.08 + .200
Solid Roller Exhaust Valve.....	1.60 + .200
Hydraulic Intake Valve	2.08 + .100
Hydraulic Exhaust Valve	1.60 + .100
Retainers.....	Steel
Valve Locks	7 Degree & 10 Degree Bead Lock
Rocker Stud	7/16"
Guideplate.....	Hardened Steel FLOTEK Two-Piece Adjustable Guide Plate
Valve Seals.....	Viton
Exhaust Valve Seat.....	Powder Metallurgy
Bronze Valve Guides	Manganese Bronze

GET YOUR



GEAR!



SHIRTS



CAPS



HOODIES



DECALS

CONTACT US FOR BANNERS, DECALS,
APPAREL AND OTHER **FLOTEK**
MERCHANDISE!

FLOTEK High Performance Racing Heads

Warehouse Distribution Program

About

FLOTEK High Performance Racing Heads is dedicated and focused on three priorities: Performance, Quality and Competitive Pricing. All FLOTEK cylinder heads and parts are inspected for quality and fully assembled in Evansville, Indiana.

Hours of Operation

Friendly and knowledgeable consultative personnel are available from 8am to 5pm Central Standard Time, Monday thru Friday.

Technical advice is available from one of our cylinder head specialist personnel. For assistance contact (FLOTEK High Performance Racing Heads) at 800-421-0095 or email us for technical help - flotekhelp@flotekheads.com. Visit our website for product catalog and recommendations at www.flotekheads.com.

FLOTEK WAREHOUSE:

1315 Read Street - Unit Q
Evansville, IN 47710
Hours: 8:00 AM - 3:00 PM

POSTAL ADDRESS:

PO Box 4008
Evansville, IN 47724

Payment Terms

All orders to individuals can be pre-paid by credit card. FLOTEK High Performance Cylinder Head ships across the United States and Canada. International shipping upon request.

All orders to jobber or warehouse distributor accounts will be credit card or term 30 days.

Damaged Merchandise

All shipments are fully insured. Any claim for damage must be made to the freight carriers. Do not return damaged merchandise to FLOTEK High Performance Racing Heads unless prior arrangements have been made. Please contact us at 812-421-0095 if you need assistance.

Merchandise Returns

Merchandise may be returned only if prior approval has been granted by FLOTEK High Performance Racing Heads. All merchandise returned for credit must be in perfect unused condition and will be inspected at time of receipt. It must be returned prepaid and insured and may be subject to a handling charge. Credit to warehouses will be issued at the lowest purchase price within the last twelve months. Please contact FLOTEK High Performance Racing Heads at 800-421-0095 to receive a Returned Goods Authorization (RGA) number for product before shipping to FLOTEK.

Pricing Information

All prices are subject to change without notice. Price lists are available from FLOTEK High Performance Racing Heads.

All orders to jobber or warehouse distributor accounts will be credit card or term 30 days.

Limited Warranty

FLOTEK Performance Cylinder Head warrants each new FLOTEK Cylinder head to be free from defect in workmanship for a one (1) year period from date of purchase provided that the FLOTEK Cylinder Head is properly installed, subjected to normal use and service and that the cylinder head is not modified or changed in any way, nor damaged because of negligence by the customer or installer or used for racing or competition purposes. Our repair facility and warranty service is located at 1315 Read Street, Unit Q, Evansville, Indiana 47710. Customers who believe they have a defective product should either return it to the dealer from which it was purchased or ship it directly to FLOTEK Performance Racing Heads. Include proof of purchase and a complete description of the problem. The product must be returned freight prepaid. If a thorough inspection of the cylinder head by the factory indicates defects in workmanship or material, our obligation shall be to repair or replace the product. Warranty covers only the product itself and not the cost of installation or removal.

Warehouse Distribution Terms

To maintain warehouse distribution with FLOTEK High Performance Racing Heads, a minimum order of twenty (20) cylinder heads is required.

A combination of small block Ford, small block Chevy, big block Chevy, bare or assembled is satisfactory to acquire and sustain warehouse distribution.

ALL PARTS ARE SUBJECT TO CHANGE

Part Number	Description	ID#	Price
272-700	Spring Kit • CL 130# • OP 310#	00850134007952	105.00
225	Ford Intake Valve	00850134007969	8.04
226	Ford Exhaust Valve	00850134007976	8.04
44	Ford Retainer	00850134007983	1.30
45	Ford Spring Cup	00850134007990	1.25
F30	.30 Ford Shim	00850032070119	.50
F60	.60 Ford Shim	00850032070126	.50
227	Chevy Intake Valve	00850032070003	8.04
228	Chevy Exhaust Valve	00850032070010	8.04
46	Chevy Retainer	00850032070027	1.30
47	Chevy Spring Base	00850032070034	1.30
C30	.30 Chevy Shim	00850032070096	.50
C60	.60 Chevy Shim	00850032070102	.50
68	3/8 Stud	00850032070041	1.30
101	Right Guide Plate	00850032070065	1.75
102	Left Guide Plate	00850032070058	1.75
059	7 Degree Black Locks	00850032070089	.40
060	7 Degree Gold Locks	00850032070072	.50

Note: all catalog prices are subject to change without notice.
 Some items may require specialty service and may take additional time.

**CONTACT FLOTEK 1-800-270-0095 FOR WAREHOUSE
 AND JOBBER PRICING AND FOR POTENTIAL SALES!**

(812) 421-0095

800-270-0095

FLOTEK WAREHOUSE:

1315 Read St. - UNIT Q
Evansville, IN 47710
Hours: 8:00 AM - 3:00 PM

POSTAL ADDRESS:

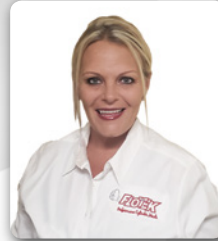
PO BOX 4008
Evansville, IN 47724

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FLOTEK
by Tri-State Cylinder Head, Inc.

