JANUARY 2017

FLOTEK

Performance Cylinder Heads

2017 Product Catalog

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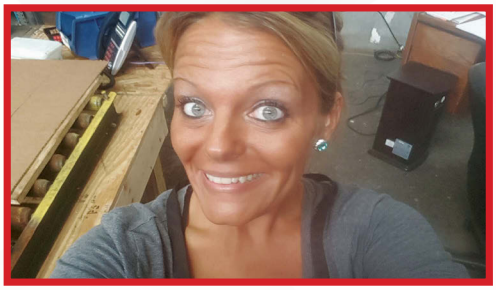
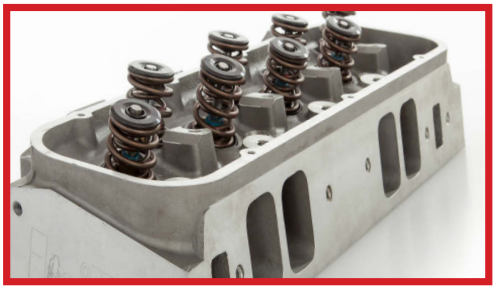
FLO-TEK

Performance Cylinder Heads

In 2005, Tri-State Cylinder Head began research and development of the FLO-TEK High Performance Aluminum Racing Heads. Introduction of the FLO-TEK 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 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, FLO-TEK Performance Cylinder Heads offer:

SMALL BLOCK CHEVY 180 • FORD 190 CNC • SMALL BLOCK FORD 180 • BIG BLOCK CHEVY 320
BIG BLOCK CHEVY 360 • CHEVY 200 • CHEVY 210 CNC • CHEVY 220 CNC





GENERAL WARRANTY:

FLO-TEK Performance Cylinder Head warrants each new FLO-TEK Cylinder head to be free from defect in workmanship and materials for a one (1) year period from date of purchase provided that the FLO-TEK 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 1312 Read St. Unit Q, Evansville, Indiana 47710. Customers who believe they have a defective product should return it to Tri-State Cylinder Head, Inc. (FLO-TEK Performance Racing Heads) 800-270-0095. Include a complete description of the problem. The product must be returned freight prepaid. If a thorough inspection of the cylinder head by FLO-TEK Cylinder Head indicates defects in workmanship or material, our obligation shall be to repair or replace the product. Tri-State Cylinder Head/FLO-TEK does not warranty labor for removal and re-installation.

PLEASE CALL FOR RGA# FOR RETURN 812-449-9767

SMALL BLOCK CHEVY 180cc/64cc

FLO-TEK Performance Cylinder Heads

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

What matters most? Three things, quality, performance and price! Making FLO-TEK 180 cc small block Chevy head the answer!

The features for the FLO-TEK 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 FLO-TEK 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.

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

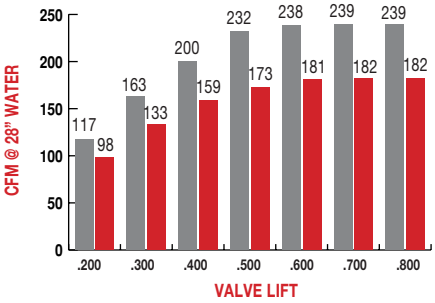
Push Rods: +.100 Length Push Rods. Use Push Rod length checker to establish correct length.

- **Up to .550 Lift**

Part Specification

Flo-Tek 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

Small Block Chevy 180cc Flow Chart



Dimensions & Weight

Small Block Chevy Bare	22 Pounds
Small Block Chevy Assembled	28 Pounds
Length	19.75"
Width	7.5"
Height	5"

Specifications, Features & Optional Supporting Components

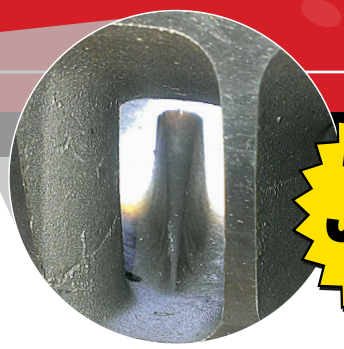
Head Bolt Torque	50-65-80 Ft-Lb, 75 Ft-Lb on Bottom (Permatex#80631)
Rocker Stud Torque	45 Ft-Lb
Intake Port Gasket	Fel Pro 1255, Fel Pro 1205 or Equivalent
Exhaust Port Gasket	Fel Pro 1404 or Equivalent
Head Gasket	350/383 Fel Pro 1003, Cometic C5399
Head Bolts & Studs	ARP134-3601, Manley 42313, ARP 134-4001
Head Bolt Washers	Manley 42102
Suggested Manifold	Performer RPM Air Gap, Weiand Street Warrior 8150
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	CL 130# @ 1.75, OP 310# @ 1.25, C/Bind- 1.160
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 Guideplate
Valve Seals	Viton Positive Seals
Spring Cup	Hardened Steel Cups
Intake Valve Seat	Powder Metal
Exhaust Valve Seat	Powder Metal
Bronze Valve Guides	Phosphor Bronze

SMALL BLOCK CHEVY 200cc/64cc
Solid & Hydraulic Roller

FLO-TEK Performance Cylinder Heads



PORT DESIGN BY JONES ENGINEERING

VALVE SPRINGS:

STREET BUILD - **Up to .550 Lift** - CL 130# @ 1.75, OP 310# @ 1.20, C/Bind- 1.160
Intake Valve: 2.02 + .100 Exaust Valve: 1.600 + .100

HYDRAULIC ROLLER - **Up to .650 Lift -** CL 142# @1.80"
OP 400# @1.15" • C/Bind 1.040" • Intake Valve: 2.02 + .100
Exhaust Valve: 1.600 + .100

SOLID ROLLER - **Up to .650 Lift -** CL 230# @1.90"
OP 600# @1.25" • C/Bind 1.15" • Intake Valve: 2.02 + .200 (P11544JF)
Exhaust Valve: 1.600 + .200 (P11751JF)

FLO-TEK'S small block 200cc As Cast 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.

The features for the FLO-TEK 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 FLO-TEK 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.**

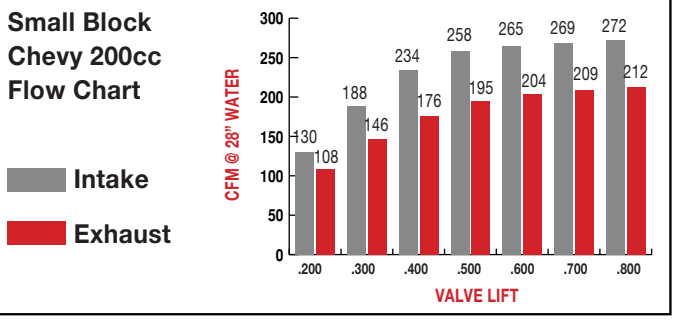
FLO-TEK inspects each shipment of aluminum heads offered in Straight or Angle assuring the customer that they are receiving the best products for the money. 100% assembled in the USA!

Part Specification

(See inside front cover for abbreviation head terms.)

Flo-Tek Cylinder Head	ID#	Part Number
SBC 200 AC ANG BARE	00850134007204	1200-AC-500A
SBC 200 AC ST BARE	00850134007211	1200-AC-500S
SBC 200 AC ANG ASSM	00850134007242	1200-HRAC-505A
SBC 200 AC HR ST ASSM	00850134007259	1200-HRAC-505S
SBC 200 AC SR ST ASSM	00850134007266	1200-SRAC-505S
SBC 200 AC SR ANG ASSM	00850134007273	1200-SRAC-505A
SBC 200 SB HR ST ASSM	00850134007235	1200-HRSB-505S
SBC 200 SB HR ANG ASSM	00850134007228	1200-HRSB-505A

Small Block Chevy 200cc Flow Chart



Dimensions & Weight

Small Block Chevy Bare	22 Pounds
Small Block Chevy Assembled	28 Pounds
Length	19.75"
Width	7.5"
Height	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 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, Weiand Street Warrior 8150
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 (P150160)
Hydraulic Roller/Street Build Exhaust Valve	1.600 + .100 (P11552JF)
Solid Roller Intake Valve	2.02 + .200 (P11544JF)
Solid Roller Exhaust Valve	1.600 + .200 (P11751JF)
Rocker Arms	91511772SW
Push Rods	Hardened Push Rods

Basic Package Components:

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

SMALL BLOCK CHEVY 210cc/69cc

CNC Solid & Hydraulic Roller

FLO-TEK Performance Cylinder Heads

VALVE SPRINGS:

HYDRAULIC ROLLER - CL 142# @1.80"
OP 400# @1.15" • C/Bind 1.040" • Intake Valve: 2.055 + .100 (P11598-100)
Exhaust Valve: 1.600 + .100 **Up to .650 Lift**

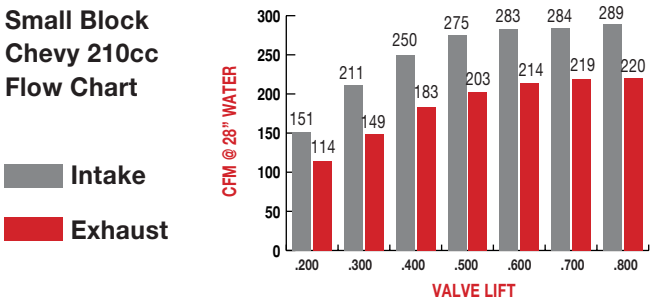
SOLID ROLLER - CL 230# @1.90"
OP 600# @1.25" • C/Bind 1.15" • Intake Valve: 2.055 + .200 (P11552JF)
Exhaust Valve: 1.600 + .200 (P11751JF) **Up to .650 Lift**

If you are serious about horsepower, then we have your solution, the FLO-TEK's 210 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...FLO-TEK's 210 CNC is a Serious Head for Serious Horsepower!

Part Specification

Flo-Tek Cylinder Head	ID#	Part Number
SBC 210 CNC Angle Bare	00850134007280	1210-CNC-500
SBC 210 CNC Solid Roller Angle Assembled	00850134007297	1210-SRCNC-505
SBC 210 CNC Hydraulic Roller Angle Assembled	00850134007303	1210-HRCNC-505

Small Block Chevy 210cc Flow Chart



Dimensions & Weight

Small Block Chevy Bare	22 Pounds
Small Block Chevy Assembled	28 Pounds
Length	19.75"
Width	7.5"
Height	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 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, Weiand Street Warrior 8150
Spark Plug Starting Range	NGKR5671A-7/4091 Hotter or Colder or Equivalent
Intake Port Volume	210cc
Exhaust Port Volume	78cc
Combustion Chambers	69cc
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	2.05 + .100 -P11598-100
Hydraulic Roller Exhaust Valve	1.60 + .100
Solid Roller Intake Valve	2.05 + .200 -P11552-JF
Solid Roller Exhaust Valve	1.60 +.200 -P11751JF

Basic Package Components:

Retainers	10 Degree Chrome Moly Retainer
Valve Locks	10 Degree Chrome Moly Locks
Rocker Stud	7/16" Chrome Moly Rocker Stud
Guideplate	Hardened Steel Guideplate
Valve Seals	Viton Positive Seals
Spring Cup	Hardened Steel Cups
Intake Valve Seat	Powder Metal
Exhaust Valve Seat	Powder Metal
Bronze Valve Guides	Phosphor Bronze

SMALL BLOCK CHEVY 220cc/72cc

CNC Solid & Hydraulic Roller

FLOTEK Performance Cylinder Heads

If you are serious about horsepower, then we have your solution, the FLO-TEK'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...FLO-TEK's 220 CNC is a Serious Head for Serious Horsepower! Enough said!

VALVE SPRINGS:

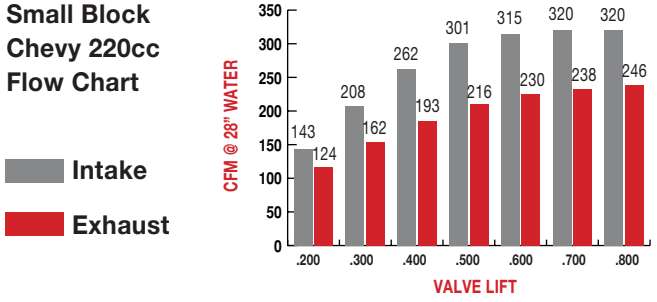
HYDRAULIC ROLLER - CL 142# @1.80"
OP 400# @1.15" • C/Bind 1.040" • Intake Valve: 2.08 + .100 (P3122-100)
Exhaust Valve: 1.600 + .100 **Up to .650 Lift**

SOLID ROLLER - CL 230# @1.90"
OP 600# @1.25" • C/Bind 1.15" • Intake Valve: 2.08 + .200 (P3122-200)
Exhaust Valve: 1.600 + .200 (P11751-JF) **Up to .650 Lift**

Part Specification

Flo-Tek Cylinder Head	ID#	Part Number
SBC 220 CNC Angle Bare	00850134007310	1220-CNC-500
SBC 220 CNC Solid Roller Angle Assembled	00850134007320	1220-SRCNC-505
SBC 220 CNC Hydraulic Roller Angle Assembled	00850134007330	1220-HRCNC-505

Small Block Chevy 220cc Flow Chart



Dimensions & Weight

Small Block Chevy Bare	22 Pounds
Small Block Chevy Assembled	28 Pounds
Length	19.75"
Width	7.5"
Height	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 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, Weiand Street Warrior 8150
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 -P3122-100
Hydraulic Roller Exhaust Valve	1.60 + .100
Solid Roller Intake Valve	2.08 + .200 -P3122-200
Solid Roller Exhaust Valve	1.60 +.200 -P11751JF

Basic Package Components:

Retainers	10 Degree Chrome Moly Retainer
Valve Locks	10 Degree Chrome Moly Locks
Rocker Stud	7/16" Chrome Moly Rocker Stud
Guideplate	Hardened Steel Guideplate
Valve Seals	Viton Positive Seals
Spring Cup	Hardened Steel Cups
Intake Valve Seat	Powder Metal
Exhaust Valve Seat	Powder Metal
Bronze Valve Guides	Phosphor Bronze

BIG BLOCK CHEVY 320cc/133cc

FLO-TEK Performance Cylinder Heads

Dimensions & Weight

Big Block Chevy Bare	35 Pounds
Big Block Chevy Assembled	43 Pounds
Length	22.25”
Width	8.5”
Height	5”

Flo-Tek 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! FLO-TEK Aluminum Cylinder Heads are a great choice for out of the box horse power. These FLO-TEK Cylinder thick Deck Design and High Capacity water jackets that makes them a reliable choice for street or strip applications.

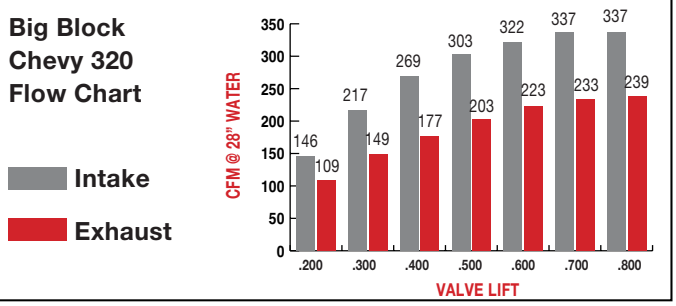
The FLO-TEK BBC 320 takes stock pistons and has raised valve cover rails. The BBC 320 **Exhaust Port location is raised .500**.

Offered at .600 lift, .850 lift and .900 lift.

Part Specification

Flo-Tek Cylinder Head	ID#	Part Number
BBC 320 Assembled .600 lift	00850134007082	305-5056
BBC 320 Assembled .850 lift (Triple Spring)	00850134007105	305-5058
BBC 320 Assembled .900 lift	00850134007341	305-5059
BBC 320 Bare	00850134007112	306-500

Big Block Chevy 320 Flow Chart



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 135-3703 (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	320 cc
Exhaust Port Volume	128cc
Combustion Chambers	133cc
Max Spring Pocket Diameter	1.725” O.D.
Spring Kit .600	PSK637-1-7 1.50” Dual W/D
Spring Kit .850	PAC 1224 Dual Drag Race Spring
Spring Kit .900	PAC 1228 Dual Drag Race Spring

Basic Package Components:

Intake Valve .600	2.250 Stock Length -P3120HPC
Exhaust Valve .600	1.880 +.100 -P4355-100
Intake Valve .850	2.250 +.250 -P11856JF
Exhaust Valve .850	1.880 +.200 -P4355-200
Valve Spring .600	CL 178# @ 1.900, OP 446# @ 1.300 C.BIND 1.170
Valve Spring .850	CL 244# @ 2.05, OP 779 @1.2 C.BIND is 1.10
Valve Spring .900	CL 280# @ 2.1, OP 846# @ 1.2 C. BIND is 1.1
Retainers	Hardened Chrome Moly
Valve Locks .600	7 Degree Valve Locks
Valve Locks .850/.900	10 Degree Valve Locks
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	Phosphor Bronze

BIG BLOCK CHEVY 360cc/133cc

FLO-TEK Performance Cylinder Heads

Dimensions & Weight

Big Block Chevy Bare	35 Pounds
Big Block Chevy Assembled	43 Pounds
Length	22.25”
Width	8.5”
Height	5”

Flo-Tek 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

FLO-TEK 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, FLO-TEK’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.

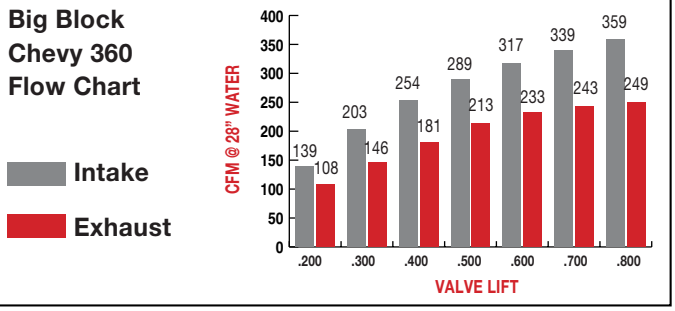
The FLO-TEK BBC 360 takes stock pistons with raised valve cover. The BBC 360 **Exhaust Port location is raised .500**.

Offered at .600 lift, .850 lift and .900 lift.

Part Specification

Flo-Tek Cylinder Head	ID#	Part Number
BBC 360 Assembled .600 lift	00850134007129	407-5056
BBC 360 Assembled .850 lift (Triple Spring)	00850134007143	407-5058
BBC 360 Assembled .900 lift	00850134007358	407-5059
BBC 360 Bare	00850134007150	408-500

Big Block Chevy 360 Flow Chart



Specifications, Features & Optional Supporting Components

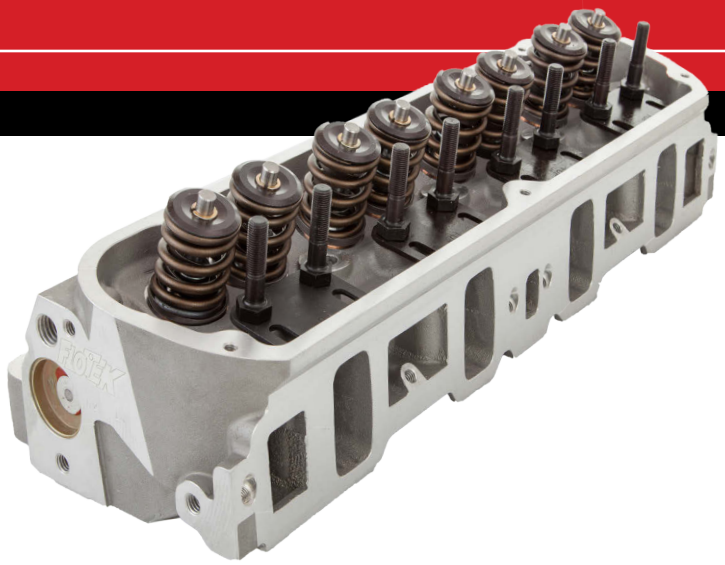
Head Bolt Torque	75 Ft Lbs w/ oil
Intake Valve Seat	Powder Metal
Exhaust Valve Seat	Powder Metal
Bronze Valve Guides	Phosphor Bronze
Rocker Stud Torque	50 Ft Lbs w/ oil
Intake Port Gasket	Fel Pro 1252-3 (320) Fel Pro 1211 (360)
Exhaust Port Gasket	Fel Pro 1410
Head Gasket	Fel Pro 1017-1 (4.500) 1057 (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
Max Spring Pocket Diameter	1.725” O.D.
Spring Kit .600	PSK637-1-7 1.50” Dual W/D
Spring Kit .850	PAC 1224 Dual Drag Race Spring
Spring Kit .900	PAC 1228 Dual Drag Race Spring

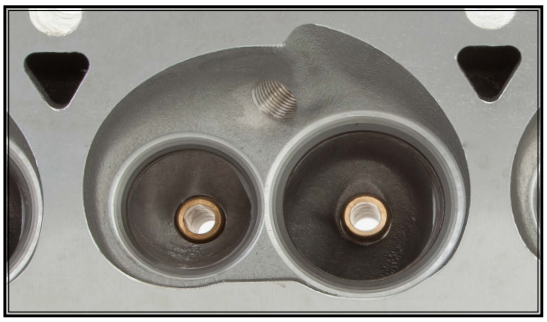
Basic Package Components:

Intake Valve .600	2.250 Stock Length -P3120HPC
Exhaust Valve .600	1.880 +.100 -P4355-100
Intake Valve .850	2.250 +250 -P11856JF
Exhaust Valve .850	1.880 +.200 -P4355-200
Valve Spring .600	CL 178# @ 1.900, OP 446# @ 1.300 C.BIND 1.170
Valve Spring .850	CL 244# @ 2.05, OP 779 @1.2 C.BIND is 1.10
Valve Spring .900	CL 280# @ 2.1, OP 846# @ 1.2 C. BIND is 1.1
Valve Locks .600	7 Degree Valve Locks
Valve Locks .850/.900	10 Degree Valve Locks
Rocker Stud	Must have Clearance for Valve Spring Retainers
Valve Seals	Viton Positive Seals
Spring Cup	Hardened Steel Cups

SMALL BLOCK FORD 180cc/58cc

FLOTEK Performance Cylinder Heads

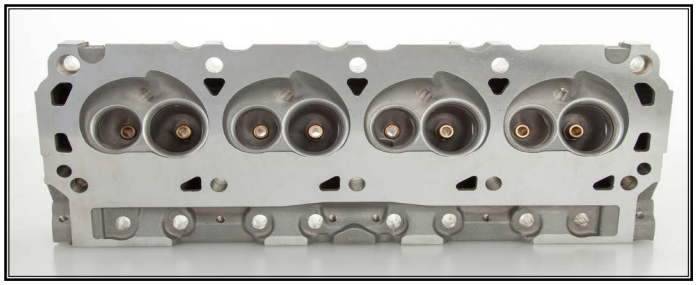




FLO-TEK Performance cylinder heads feature as-cast ports and are designed for entry-level street performance applications operating in the idle-to-5500 rpm range. They are available for **289, 302, 351W** engines.

Push Rods: Use Push Rod length checker to establish correct length.

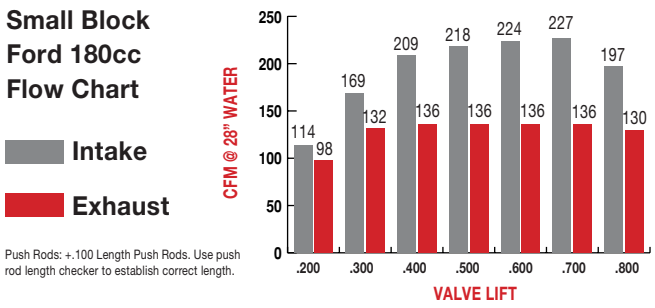
- **Up to .550 Lift**
- **Does not include Thermactor Plugs (ERG). FLOTEK RECOMMENDATION: Trick Flow Small Block Ford TFS 51400265**



Part Specification

Flo-Tek Cylinder Head	ID#	Part Number
SBF Stud and Plate Bare	00850134007051	203-500
SBF Stud and Plate 2.02 Assembled	00850134007068	203-5052
SBF Stud and Plate 1.94 Assembled	00850134007075	203-505

Small Block Ford 180cc Flow Chart



Push Rods: +.100 Length Push Rods. Use push rod length checker to establish correct length.

Dimensions & Weight

Small Block Ford Bare	20 Pounds
Small Block Ford Assembled	26 Pounds
Length	19.625”
Width	7.25”
Height	4.25”

Specifications, Features & Optional Supporting Components

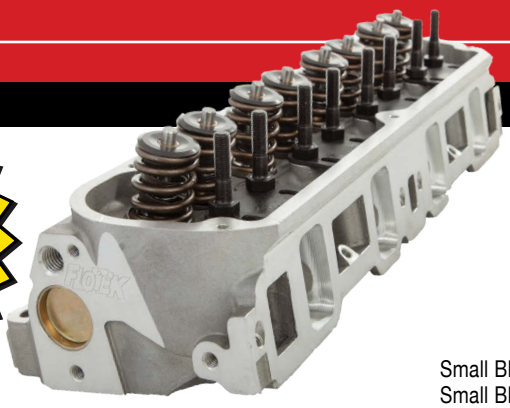
Head Bolt Torque	50-65-80 Ft-Lb, 75 Ft-Lb on Bottom (Permatex#80631)
Rocker Stud Torque	45- 50 Ft-Lb
Intake Port Gasket	Fel Pro 1262
Exhaust Port Gasket	Fel Pro 1487, MS15129Y
Head Gasket	Fel Pro 1011-1 or 1011-2, M6051-050
Head Bolts & Studs	ARP154-3605 (302), ARP154-3603 (351W), ARP254-3708
Head Bolt Washers	EDL 9680 (302)
Suggested Manifold	Performer RPM or Weiand Street Warrior
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	Must have clearance for Valve Spring Retainers
Intake Valve	1.94 or 2.02
Exhaust Valve	1.55
Valve Spring	CL 130# @ 1.75, OP 310# @ 1.25, C/Bind- 1.160
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 Guideplate
Valve Seals	Viton Positive Seals
Spring Cup	Hardened Steel Cups
Intake Valve Seat	Cast Alloy
Exhaust Valve Seat	Cast Alloy
Bronze Valve Guides	Phosphor Bronze

SMALL BLOCK FORD 190cc/60cc

CNC Solid & Hydraulic Roller

FLOTEK Performance Cylinder Heads

CNC PORTED



VALVE SPRINGS:

STREET BUILD - **Up to .550 Lift** - CL 130# @ 1.75, OP 310 @ 1.20, C/Bind- 1.160
• Intake Valve: 2.02 + .100 Exhaust Valve: 1.55 + .100, 1.46" Single W/D

HYDRAULIC ROLLER - **Up to .650 Lift** - CL 142# @1.80" +.100 OP 400# @1.15"
C/Bind 1.040" • Intake Valve: 2.02 + 1.00 Exhaust Valve: 1.55 + .100
1.46" Dual

SOLID ROLLER - **Up to .750 Lift** - CL 230# @1.90" OP 600# @1.25"
C/Bind 1.15" • Intake Valve: 2.02 + .200 (P4316HPC)
Exhaust Valve: 1.55 + .200 (P4315HPC) 1.50" Dual

Something great just got better! FLO-TEK 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.

FLO-TEK 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. FLO-TEK'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.

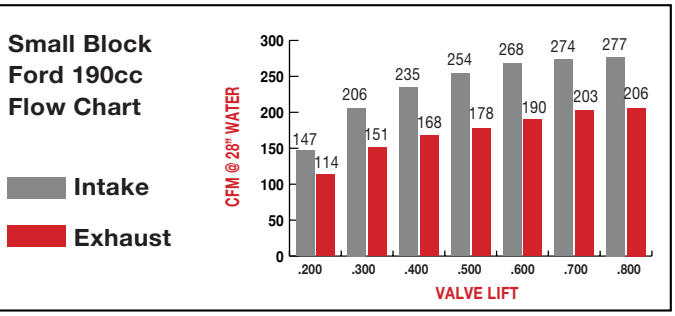
Push Rods: Use Push Rod length checker to establish correct length.

• **Does not include Thermactor Plugs (ERG). FLOTEK RECOMMENDATION: Trick Flow Small Block Ford TFS 51400265**

Part Specification

Flo-Tek Cylinder Head	ID#	Part Number
SBF 190 CNC Bare	00850134007167	2190-CNC-500
SBF 190 CNC Street Build Assembled	00850134007174	2190-SBCNC-505
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



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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 or Weiand Street Warrior
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"
Street Build Spring Kit	1.46" Single W/D
Solid Roller Spring Kit	1.50" Dual W/D PSK580-1-10
Hydraulic Roller Spring Kit	1.46" Dual PSK618-1-10
Rocker Arms	91511772SW
Push Rods	Hardened Push Rods

Basic Package Components:

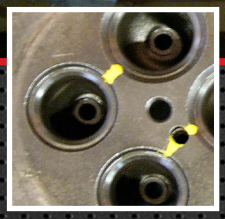
Solid Roller Intake Valve	2.02 + .200 (P4316HPC)
Solid Roller Exhaust Valve	1.55 + .200 (P4315HPC)
Street Build/Hydraulic Intake Valve	2.02 + .100
Street Build/Hydraulic Exhaust Valve	1.55 + .100
Retainers	SB - 7 Degree, HR/SR - 10 Degree Chrome Moly Retainer
Valve Locks	SB - 7 Degree, HR/SR - 10 Degree Chrome Moly Locks
Rocker Stud	SB - 3/8", HR/SR - 7/16" Chrome Moly Rocker Stud
Guideplate	Hardened Steel Guideplate
Valve Seals	Viton Positive Seals
Spring Cup	Hardened Steel Cups
Intake Valve Seat	Cast Alloy
Exhaust Valve Seat	Cast Alloy
Bronze Valve Guides	Phosphor Bronze

TRI-STATE
Cylinder Head Inc.
REPAIR SERVICE

In 1991, Ron Schmitt started Tri-State Cylinder Head Incorporated in Evansville, Indiana. Tri-State Cylinder Head has dedicated their work to re-manufacturing Domestic, Import, and Heavy Duty Diesel cylinder heads. With over 25 years of experience, Tri-State Cylinder Head Incorporated has become an industry leader in providing quality service nationally. In addition, high quality cast iron cylinder head welding and repairs for the production engine re-manufacturing industry. Our family-owned and operated business has served throughout the United States. We provide quality products and excellent customer service.

Over 25 Years of Quality Service

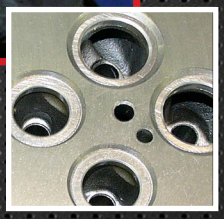
4 MAIN STAGES OF CRACK REPAIR:



IDENTIFY CRACKS

GRIND OUT CRACKS

PREHEAT & CAST WELD



MACHINE, TEST & INSPECT

www.flootek.com

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