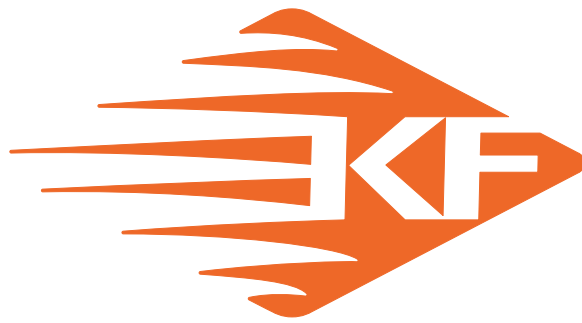


# KF Industries Product Summary



**KF Industries**



Superior Fluid Control Products  
A Brand of **CIRCOR** Energy Products, Inc.



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KF Industries is a Brand of  
Circor Energy Products, Inc.,  
a leading Global manufacturer of  
gas & oil pressure control  
products. Applications range from  
the Wellhead to the Pipeline both  
onshore and offshore.  
Products produced include ball,  
check, gate, globe, needle,  
butterfly valves and  
pipeline closures.  
Markets Served include  
Oil & Gas, Petrochemical,  
Power Generation and Industrial.

When quality counts, *Specify KF Industries.*



# Our Quality Commitment

We're dedicated to providing our customers with technically superior products that are designed, manufactured, and tested to the exacting standards of various qualifying authorities. Other additional non-destructive or destructive examination may be performed to customer requirements or specifications. Please contact KF Industries for additional information and clarification.

*Ask your KF Representative about our complete line of technically superior flow control products.*

## Specifications Conformance

KF valves are designed, manufactured and tested in accordance with API, ANSI and ASME requirements. The following list contains the most important applicable standards. KF valves may be produced in accordance with other standards on request.

### **ANSI-American National Standard Institute**

- B 1.20.1 Pipe threads, general purpose.
- B 16.5 Steel pipe flanges and flanged fittings.
- B 16.10 Face-to-face and end-to-end dimensions of ferrous valves.
- B 16.25 Butt welding ends.
- B 16.34 Steel valves-flanged and butt welding ends.

### **API-American Petroleum Institute**

- Spec. 6A Specification for wellhead valves.
- Spec. 6D Specification for pipeline valves.
- Spec. 6FA Specification for fire testing of valves.
- Std. 607 Fire test for soft seated quarter-turn valves.
- Spec. Q1 Quality program.
- Spec. 5B EUE External upset tubing threads.

### **ISO 9001-International Organization for Standardization**

- ISO 9001 Quality systems-model for quality assurance in design, development, production, installation and servicing.
- ISO 15156 Materials for use in H<sub>2</sub>S containing environments in oil & gas production.

### **MSS-Manufacturers Standardization Society**

- SP 6 Standard finishes for contact faces of pipe flanges and connecting-end flanges of valves and fittings.
- SP 25 Standard marking system for valves, fittings, flanges and unions.
- SP 55 Quality standard for steel castings.

### **NACE-National Association of Corrosion Engineers**

- MR0175 Sulfide stress cracking resistant metallic materials for oil field equipment. (Superceded by ISO 15156).

*KF Industries reserves the right to change designs, materials or specifications without notice or without obligation to furnish or install such changes on products previously or subsequently sold.*



# KF Threaded & Grooved-End Floating Ball Valves

## Features

- Full & Reduced Port
- Threaded & Grooved End Connections
- External Grease Fitting For Stem Journal Lubrication
- Weather Seal (Stem)
- Firesafe API 607 4th Edition
- Blowout Proof Stem Design
- Heavy Duty Flatted Stem Design
- Metal-to-Metal Firesafe Sealing
- Integral Locking Device
- Manual Operation Handle

## Optional Features

- AntiStatic Device
- Actuation & Square Nut Assemblies
- Enduro-Bond™ Coating For Corrosion Resistance
- Valves Specified with Stainless Steel Trim Meet NACE MR0175
- Anti-Freeze Design\*

\*Available upon request.

## Series A & AH

Ductile Iron Body

Series A - 1"FP - 4"RP, 1000-1500 psi

Series AH - 1"FP - 3"RP, 1500-2000 psi



## Series C, CH & CXH

Carbon or Stainless Steel Body

Series C - 1"FP - 4"FP, 1000-2500 psi

Series CH - 1"FP - 4"FP, 2000-3000 psi

Series CXH - 1"FP - 2"RP, 5000 psi

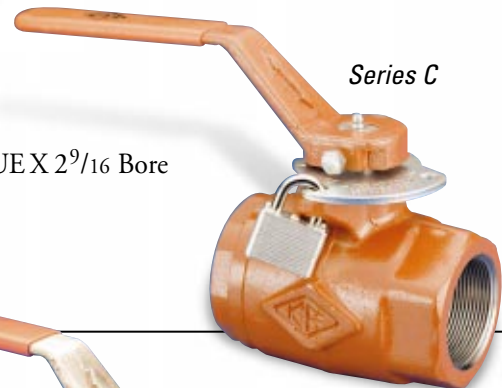
## Series CA & CAH

Carbon Steel Body,

2<sup>3</sup>/<sub>8</sub> EUE X 2<sup>1</sup>/<sub>16</sub> Bore & 2<sup>7</sup>/<sub>8</sub> EUE X 2<sup>9</sup>/<sub>16</sub> Bore

Series CA - 1000-2000 psi

Series CAH - 3000 psi



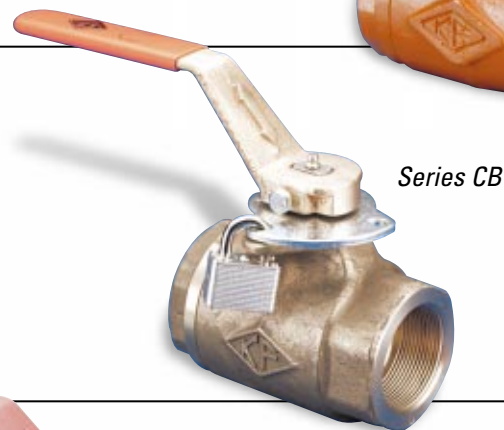
## Series CB & CBH

Nickel Aluminum Bronze Body

1"FP-2"FP

Series CB - 1000-2500 psi

Series CBH - 3000 psi



## Series E, EH & EC

Series E - Ductile Iron Body, 2"RP-4"RP, 750 CWP

Series EH - Ductile Iron Body, 2"RP, 1000 CWP

Series EC - Stainless Steel Body, 2"RP-3"RP, 750 PSI



Note: Padlocks not included.  
Consult Factory.





# KF Commodity Ball Valves

## Series HC-730, 740 & 710, Features HS-810 & 820 & HB-600

HC-730 - Carbon Steel Unibody,  
1/2" - 2", 1500-2000 CWP

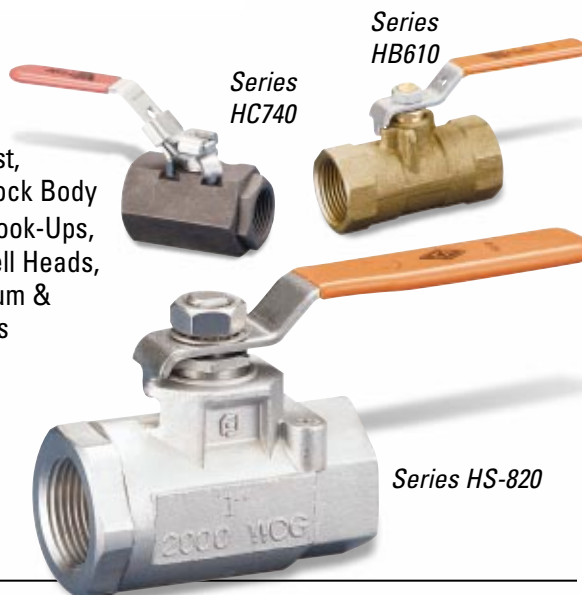
HC-740 - Carbon Steel Two-Piece,  
1/4" - 2", 1500-2000 CWP

HC-710/HS-810 - Carbon & Stainless  
Steel Unibody, 1/4" - 2", 2000 CWP

HS-820 - Stainless Steel Seal Welded  
Two-Piece, 1/4" - 2", 2000 CWP

HB-600 - Bronze Two-Piece  
1/4" - 4", 400-600 CWP

- Two-Piece & Unibody, Cast, Investment Cast & Bar Stock Body
- Designed For Hydraulic Hook-Ups, Offshore Applications, Well Heads, Production Lines, Petroleum & Chemical Plant Applications
- Chrome Plate Ball
- Reinforced PTFE Seats
- Blowout Proof Stem
- Optional Locking Device



# KF Floating Threaded Bolted Body Ball Valves

## Features

- Full & Reduced Port
- Threaded End Connections
- Bolted Body Adapter Connection
- External Grease Fitting For Stem Journal Lubrication
- Weather Seal (Stem)
- Firesafe API 607 4th Edition

- Blowout Proof Stem Design
- Heavy Duty Flatted Stem Design
- Metal-to-Metal Firesafe Sealing
- Integral Locking Device
- Manual Operation Handle

## Optional Features

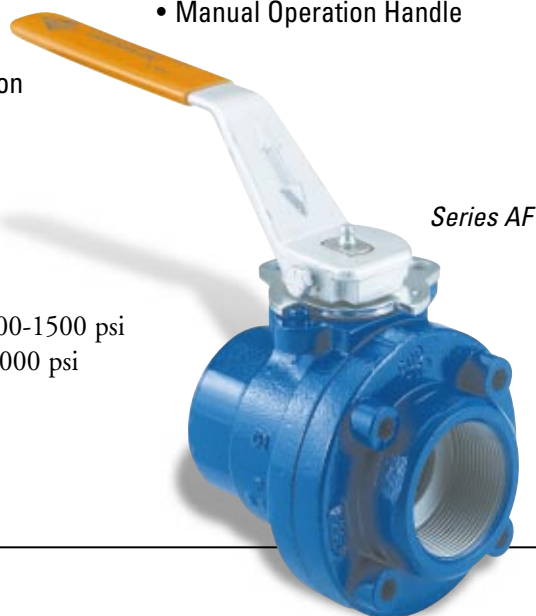
- Antistatic Device
- Actuation & Square Nut Assemblies
- Enduro-Bond™ Coating For Corrosion Resistance
- Valves Specified with Stainless Steel Trim Meet NACE MR0175

## Series AF & AFH

Ductile Iron Body

Series AF - 2"RP - 4"RP, 1000-1500 psi

Series AFH - 2"RP - 3"RP, 2000 psi



## Series CF, CFH & CFXH

Carbon Steel Body

Series CF - 2"RP - 4"FP, 1500-2500 psi

Series CFH - 2"RP - 4"FP, 3000 psi

Series CFXH - 2"RP & 2"FP, 5000 psi



# KF Threaded End Floating Ball Valves

## Features

- Full & Reduced Port
- Threaded End Connections
- Weather Seal (Stem)
- Blowout Proof Stem Design
- Heavy Duty Flatted Stem Design
- Metal-to-Metal Firesafe Sealing
- Manual Operation Handle

## Optional Features

- Antistatic Device
- Actuation & Square Nut Assemblies
- Enduro-Bond™ Coating For Corrosion Resistance
- Valves Specified with Stainless Steel Trim Meet NACE MR0175

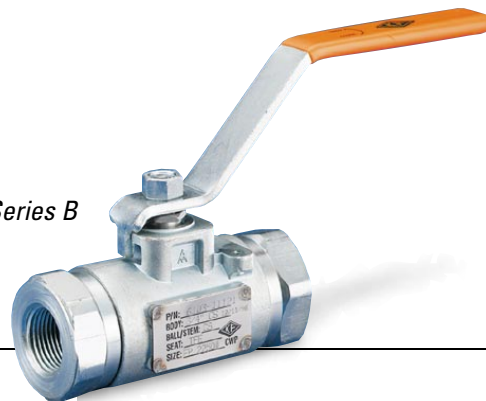
## Series B & BH • 3-Piece Design

Carbon, Stainless or Low Temp Carbon Steel Body

Series B - 1/4"FP - 2"RP, 2250 - 3000 psi

Series BH - 1/4"FP - 1"FP, 5000 psi

Series B



## Series W

Carbon or Stainless Steel Body

1/4"FP - 2"RP, 1500-2000 CWP

Series W



# KF Flanged End Floating Ball Valves

## Features

- NACE MR0175 (ISO 15156) (SS Ball/Stem Configuration)
- Weather Seal (Class 600 & Higher)
- Actuator Mounting Pad (4 Bolt Machined)
- API 6D Monogrammed, API 607 4th Edition\* (O-Ring & Graphite)
- Secondary Metal-to-Metal Sealing
- Full Rated Bi-Directional Dead End Service
- Antistatic Device
- Lockable Handle
- O-Ring Design (Std.)
- Graphite or Teflon® Packing (Optional for Class 150 & 300)

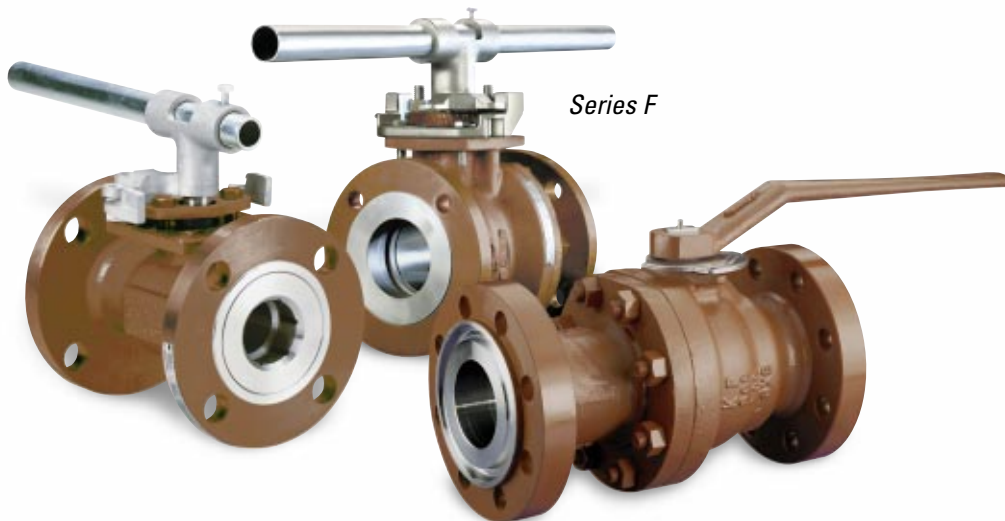
\*Not applicable to Teflon® packed.

## Series F

Carbon, Stainless or Low Temp Carbon Steel Body

1"FP - 12"RP, Class 150, 300, 600, 900 & 1500

Series F



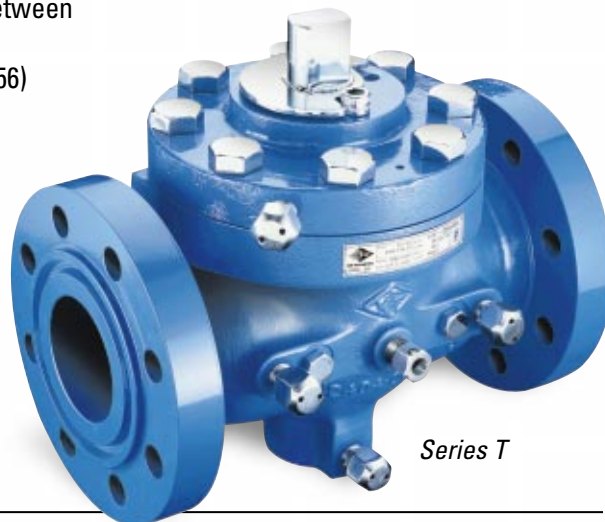
# KF Trunnion Supported Ball Valves

## Features

- Double Block & Bleed
- Blowout Proof Stem Design
- Corrosion Resistant Low Friction Bearings
- Inconel Wave Springs Assist In Low Pressure Sealing
- Firesafe Trim
- 3 mil ENP Ball, Stem & Seat Carriers
- Stainless Steel Injection Fittings for Emergency Stem or Seat Sealant & Lubrication Maintenance
- Minimized Torque Required to Open & Close Valve
- Antistatic Grounding Between Ball, Stem & Body
- NACE MR0175 (ISO 15156)
- Integral Topworks Direct Mounting Pad
- 8" & Larger Valves Are Equipped With Lifting Lugs
- Bi-Directional

## Series T Top Entry (Inline Repairable)

Top Entry One-Piece Carbon Steel, Low Temp Carbon Steel or Stainless Steel Body  
2"FP - 16"FP, Class 600  
2"FP - 12"FP, Class 900, 1500 & 2500  
2<sup>1</sup>/<sub>16</sub>"FP - 7<sup>1</sup>/<sub>16</sub>"FP, API 2000, 3000 & 5000



*Series T*

## Series P3 • 3-Piece Design

Three-Piece Carbon Steel, Low Temp Carbon Steel or Stainless Steel Body  
14"FP - 24"FP, Class 150 & 300  
2"FP - 24"FP, Class 600  
2"FP - 24"FP, Class 900  
2"FP - 12"FP, Class 1500 & 2500



*Series P3*

## Series FA • 2-Piece Design

Two-Piece Carbon Steel, Low Temp Carbon Steel or Stainless Steel Body  
2"FP - 14"RP, Class 150 & 300



*Series FA*



# KF Check Valves

## Features

- Long Pattern
- Short Pattern
- Single Disc & Dual Disc
- Internal Spring Assist
- No Spring Assist
- External Spring Assist
- Air Cushion

## Specifications

ANSI B16.34 & B16.5  
API 6D (Monogrammed)  
API 607 4th Edition  
API 594, 6A & 6FD

## Certified

CE Mark  
NACE MR0175

### Series 10 & 10S

2"-72", ANSI Class 150, 300, 600, 900, 500 & 2500, API 2000, 3000 & 5000  
Wafer Long Pattern Single Disc, Internal Spring Assist  
NACE MR0175 (ISO 15156) & CE Mark



Series 10

### Series 12

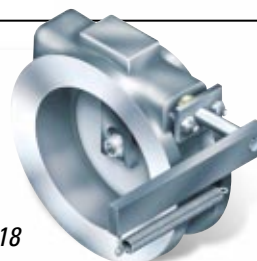
2"-24", ANSI Cl. 150, 300, 600 & 900  
Wafer Short Pattern  
Single Disc, No Spring Assist



Series 12

### Series 18

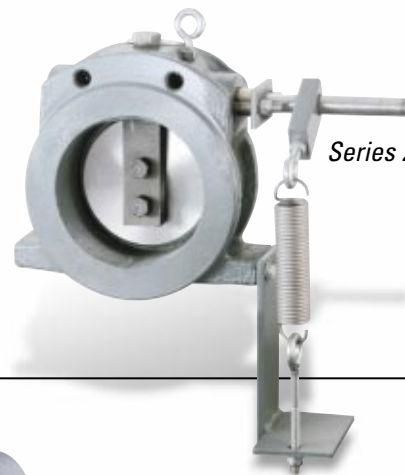
4"-12", ANSI Cl. 150, 300, 600 & 900  
Wafer Style, External Spring Assist w/Back Flush Lever  
ANSI B16.1 & B16.5



Series 18

### Series 20 & 22

2"-72", ANSI Class 150, 300 & 600  
Wafer Semi-Lug Single Disc External Spring Assist, Air Cushion (Series 22 only)  
ANSI B16.1 & B16.47



Series 20

### Series 31

1"-4", MOP 300, 750, 2200, 3000 & 5000 psi  
Threaded and Grooved Ends, Single Disc, No Spring Assist  
NACE MR0175 (ISO 15156)



Series 31

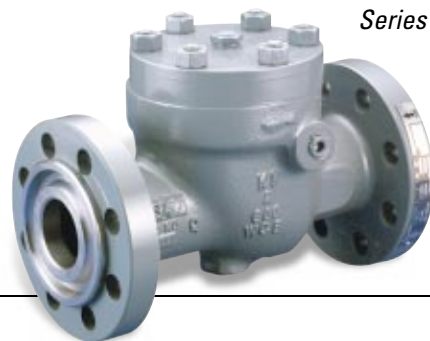




# KF Check Valves (cont.)

## Series 35

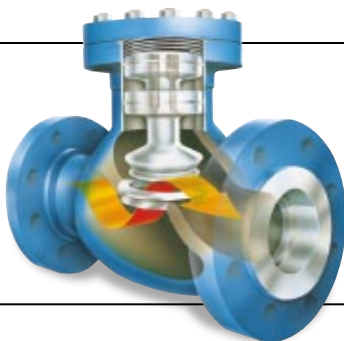
2"-24", ANSI Class 150, 300, 600, 900, 1500 & 2500, API 2000, 3000 & 5000  
Flanged End, Weld-End, Long Pattern, Single Disc,  
Internal Spring Assist, No Spring Assist  
ANSI B16.34, API 6A, 6D (Monogrammed), 594 & API 607 4th Edition,  
CE Mark, NACE MR0175



Series 35

## Series 50

2"-8", ANSI Class 300, 600 & 900  
Spring Assisted Closure,  
Precisely Metered Piston Orifice  
ANSI B16.34 & B16.5



Series 50

## Series AW & AL

2"-48", ANSI Cl. 150, 300, 600, 900, 1500 & 2500  
Wafer & Lug, Dual Disc, Internal Spring Assist  
ANSI B16.34, 16.2 & 16.47, API 594 & 598, NACE MR0175



Series AW

# KF Needle & Isolator Valves

## Features

### Packed Bonnet Style

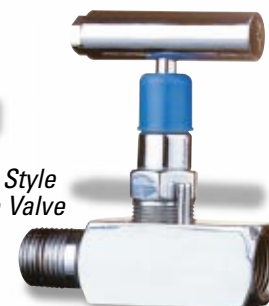
- Available In Hard & Soft Seat For Pressures Up to 10,000 psi.
- Stainless Steel Stem & Teflon® or Grafoil® Packing
- Optional Graphoil Packing For Temperatures Up To 1000°F
- NACE Conformance Available

### O-Ring Style

- Accurate Regulation At Pressures Up to 6000 psi for Soft Seat & 10,000 psi for Metal Seat.
- Temperature Limit 400°F
- NACE Conformance Available



Packed Style  
Needle Valve



O-Ring Style  
Needle Valve

## Packed Bonnet & O-Ring Style Needle Valves

Carbon or Stainless Steel Body

Packed Bonnet - 1/4" - 1" NPT, Up to 10,000 psi

O-Ring - 1/4" - 1/2" NPT, Soft Seated, Up to 6000 psi, Metal Seated, Up to 10,000 psi

## Features

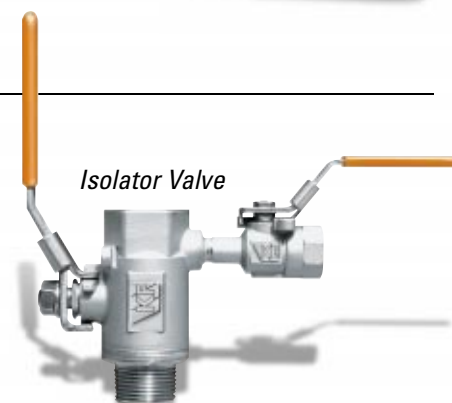
- Enables Isolation of the Safety Relief Valve From the Pressure Source for Relieving Set Point Verification Without Shutdown or Removal
- Latch-lock Handles on Isolator & Test Port Valve
- Seal Welded Body & Test Port Valve

## KF-AIV Isolator Valves

Carbon or Stainless Steel Body

1"-2" NPT, 1500-5000 psi

1"-6" ANSI Flanged, 150-1500 psi



Isolator Valve



# KF Butterfly Valves

## Features

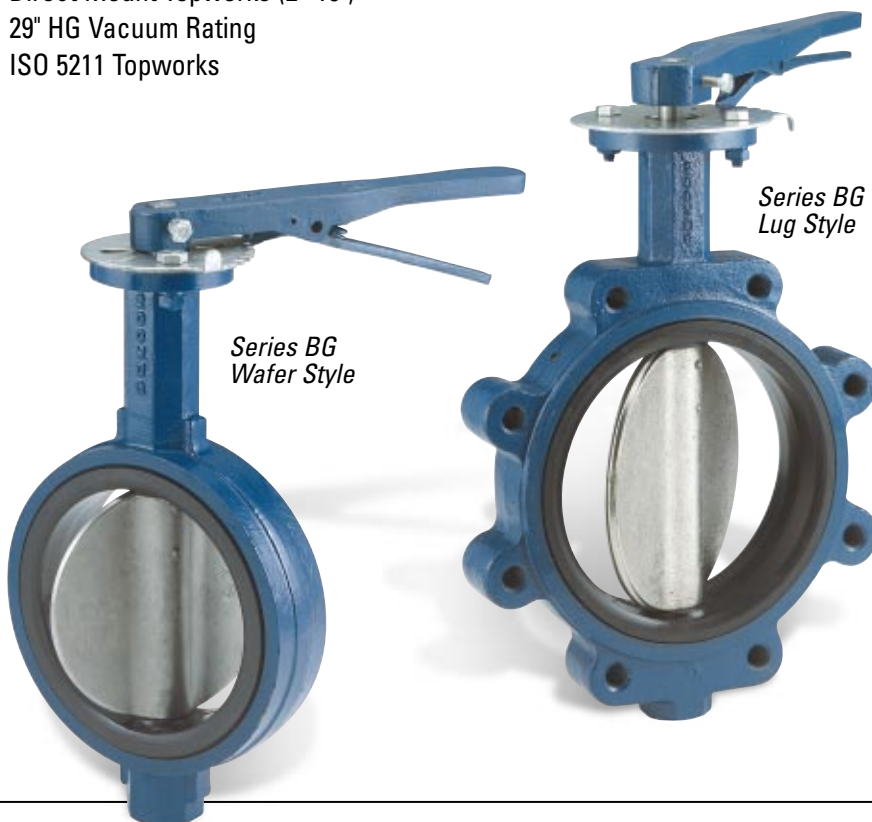
- Installs Between ANSI 125 or 150 Flanges
- PTFE Bushings 2"-12"
- Bronze Bushings 14"-36"
- Lugged Style Valves Suitable For Bi-Directional Dead End Service At Full Rated Pressure
- Seats Available In: Buna N, EPDM & Viton® A
- One-Piece Shaft Through 24"
- Direct Mount Topworks (2"-10")
- 29" HG Vacuum Rating
- ISO 5211 Topworks

## Specifications

MSS SP-67  
API 609

## Series BG

2"-36", Wafer or Lug Ductile Iron Body  
2"-12", 200 PSI  
14"-36", 150 PSI



## Features

- Lockable Handle, Easily Locked In Full Open or Full Closed Position.
- Maximum Size Stem Diameter Offers Greater Strength & Increases the Life of the Valve.
- Standard Polished Bronze Disc With Replaceable Buna N O-Ring.
- Optional Fluoroelastomer O-Ring Material is Available.
- Disc & Stem O-Rings Are Easily Replaced in the Field.
- One-Piece Cast Iron, Nickel Plated Body for Corrosion Resistance.
- Trim for Salt Water is Available.

## Series 2200

One-Piece Cast Iron Body  
(Electro Plated Nickel)  
2"-6", 200 WOG



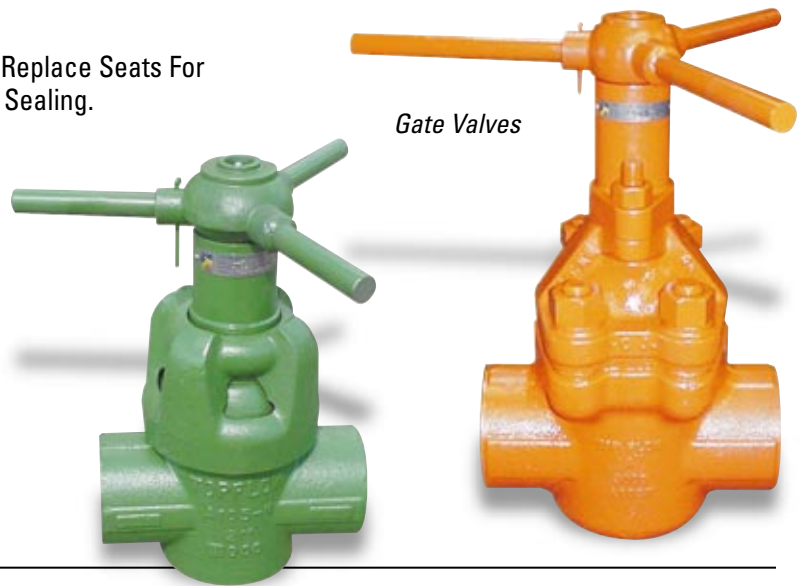
# KF Gate, Globe, Check Valves & Quick Opening Closures

## Features

- Engineered & Manufactured For Severe Oilfield Applications Including Well Treating & Frac Service, High Pressure Mud Mixing Lines, Production Manifolds & Standpipe Manifolds.
- Easy To Replace Seats For Positive Sealing.

## Series TG Rubber Seated Gate Valves

Carbon Steel or Ductile Iron Body  
2" API 5000  
4" ANSI 400 & API 3000  
5" API 3000



## KF Gate Globe & Check Valves

Forged Steel - In a wide range of steel materials including ASTM A105N, A350-LF2, A182-F11-F5-F304-F316 & F316L  
1/4" - 3", ANSI Class 800-2500

Cast Steel - In a wide range of steel materials including ASTM A216-WCB, A352-LCC, A217-C5 & A351-CF8M  
2" - 24", ANSI Class 150-2500



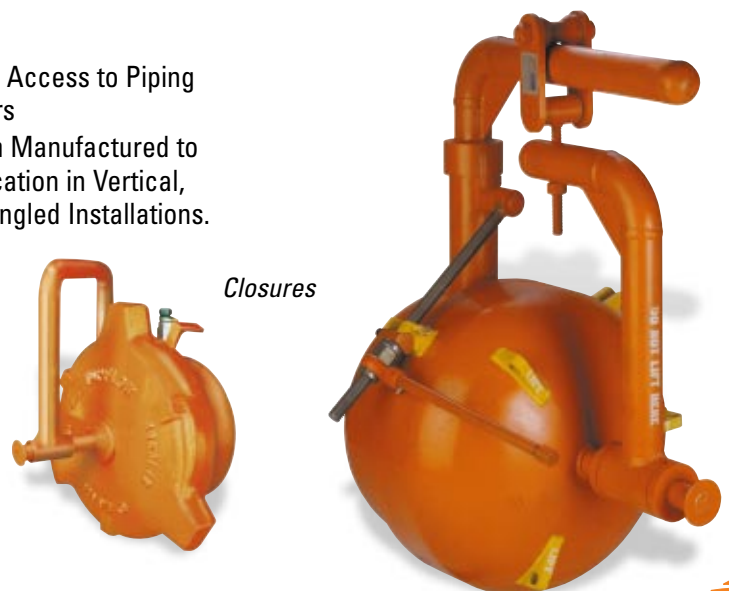
## Features

- Manufactured to ASME BPVC Section VIII Div 1 Specifications
  - Each Closure Utilizes a Standard O-Ring Size on 2"-24", Manufacturers Standard On 30" & 36". The O-Ring Size Is Stamped Into The Hub.
  - ASME Stamped\*
- Provides Quick Access to Piping System Interiors
  - Can Be Custom Manufactured to Suit Any Application in Vertical, Horizontal or Angled Installations.

\*Available upon request.

## Series TC Quick Opening Closures

Low Temp Carbon Steel Body  
2" - 36", Class 150-2500



# Worldwide Sales Offices



**KF Industries, a leading brand of CIRCOR Energy Products, Inc.**  
**reaches into every corner of the globe serving the oil & gas and industrial marketplace.**

**Supplying an extensive range of product offerings**  
**through a worldwide network of manufacturer representatives and distributors,**  
**KF Industries is the right choice for all your flow control needs.**

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to API 6FA and 607



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