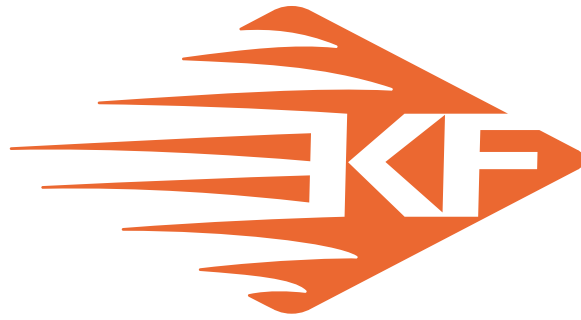
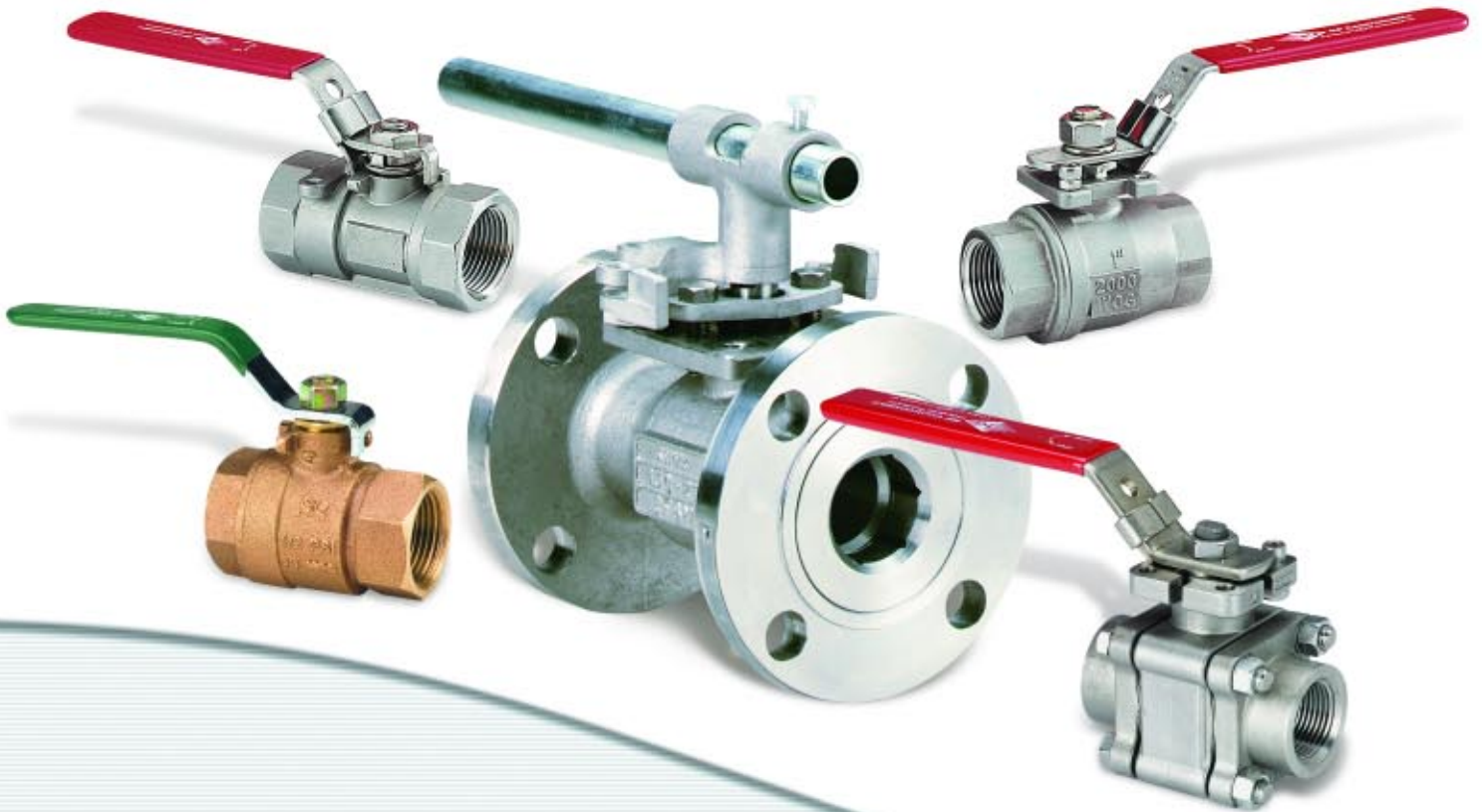


KF Contromatics Product Summary



KF Contromatics **Industrial Products**



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

Company Profile

KF Contromatics Industrial Products, the 40 year old US based company of Circor Energy Products, Inc., offers worldwide advanced engineering solutions for flow control applications. As a leader in fluid control valve products, KF Contromatics serves a broad range of markets including Energy, Power Generation, Chemical, Petrochemical, Refineries, Water and Wastewater, Mining, Municipalities, Steel & Paper Mills, Oil & Gas, Gas/Oil Gathering Systems, Light Slurries, Pump Discharges and other industrial applications. With the ability to draw upon the unique talents, skills and capabilities of highly experienced valve professionals, KF Contromatics is able to offer the right engineering, price and service solution for each flow control application, providing standard and custom solutions to meet the most critical and demanding needs within the Commercial and Industrial markets.

Contents

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Trunnion Mounted & Floating Ball Valves (ANSI Cl. 600-1500)	13
Actuation	14 -15
Automation Accessories	16 -17



Our Quality Commitment

We strive to continually improve

our management system and

processes to provide critical

technologies that help

customers worldwide use fluids

safely and efficiently while

improving everyday life.

Our mission is to create and

deliver fluid control solutions by

focusing the considerable

talents of our employees to meet

diverse customer and regulatory

requirements worldwide.

Ask your KF Contromatics

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

Specifications Conformance

KF Contromatics products are designed, manufactured, tested and certified to the exacting requirements of various product design industry standards and regulatory agencies including: (where applicable)

AAR • American Association of Railroads

ANSI • American National Standard Institute

B1.20.1	Pipe threads, general purpose
B1.20.3	Dryseal pipe threads
B16.10	Face-to-face and end-to-end dimensions of ferrous valves
B16.11	Forged fittings, socket-welding & threaded
B16.25	Butt welding ends
B16.34	Steel valves-flanged and butt welding ends
B16.5	Steel pipe flanges and flanged fittings

API • American Petroleum Institute

Spec. 6D	Specification for pipeline valves
Spec. 6FA	Specification for fire testing of valves
Spec. 594	Check valves: wafer, wafer lug & double flanged type
Std. 598	Valve inspection and test
Std. 607	Fire test for soft seated quarter-turn valves
Spec. 608	Metal ball valves; flanged, threaded & welding ends
Spec. 609	Butterfly valves; double flanged, lug & wafer type
Spec. Q1	Quality program

ASME • American Society of Mechanical Engineers

B31.1	Power piping
B31.3	Process piping

BS • British Standard

BS 6755 Part 2	Testing of valves
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Coast Guard

Coast Guard 46 CFR, Cat. A, B & Positive Shutoff

CRN • Canadian Registration No. • OC 7841.50126789

CSA • Canadian Standard Association • CGA 3.16 & 6.5

DOT • Department of Transportation • DOT 192 Cl. 3

FM • Factory Mutual

Class 7400	Liquid and gas safety shutoff valves
------------	--------------------------------------

MSS • Manufacturers Standardization Society

MSS-SP-6	Standard finishes for contact faces of pipe flanges and connecting-end flanges of valves and fittings.
MSS-SP-25	Standard marking system for valves, fittings, flanges and unions.
MSS-SP-55	Quality standard for steel castings.
MSS-SP-64	Butterfly valves
MSS-SP-72	Ball valves with flanged or butt-welding ends for general service
MSS-SP-110	Ball valves: Threaded, socket-weld, solder, joint, grooved & flared ends

NACE • National Association of Corrosion Engineers

NACE MR0175	Sulfide stress cracking resistant metallic materials for oilfield equipment.
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EC • European Community

Pressure Equipment Directive, 97/23/EC (CE marked)

ISO • International Organization for Standardization

ISO 9001:2000	Quality systems-Model for quality assurance in design, development, production, installation and servicing.
ISO 5211	Topworks Mounting Dimensions
ISO 15156	Materials for use in H ₂ S containing environments in oil & gas production.



Ball Valves

Series 6100-M3

Bronze Body
1/4" - 2", 600 WOG, NPT Ends

Features

Unibody Construction
Bottom Loaded
Blowout Proof Stem
125 WSP Steam Rating
Adjustable Packing Gland
Double Reduced Port
Oval & Locking Handles (Opt.)
316 Stainless Steel Ball & Stem (Opt.)

Specifications

MSS SP-110



Series 6000-M3

Bronze Body
1/4" - 4", 600 WOG,
Female NPT



Features

Full Port Thru 3"
150 PSI Saturated Steam
Bottom Loaded
Blowout Proof Stem
Adjustable Packing Gland
Oval & Locking Handles (Opt.)
316 Stainless Steel Ball & Stem (Opt.)
UL & CSA Approved

Specifications

MSS SP-110

Series 6001-M3

Bronze Body
3/8" - 3", 600 WOG,
Solder Ends



Features

Full Port Thru 3"
150 PSI Saturated Steam
Bottom Loaded
Blowout Proof Stem
Adjustable Packing Gland
Oval & Locking Handles (Opt.)
316 Stainless Steel Ball & Stem (Opt.)

Specifications

MSS SP-110



Ball Valves

Series 6800-M3 Series 6801-M3

Brass Body

1/4" - 2", 600 WOG, NPT Ends

1/2" - 2", 600 WOG, Solder Ends



Features

- Full Port
- 150 WSP Saturated Steam
- Bottom Loaded
- Blowout Proof Stem
- ISO 5211 Direct Actuator Mounting
- Adjustable Packing Gland
- Lever Locking Handle
- Oval Locking (Opt.)

Specifications

MSS SP-110
ISO 5211



Ball Valves

Series 7000-M3 Series 8000-M3

7000-Carbon Body/
Stainless Trim
8000-All Stainless
Construction 1/4" - 2",
2000 WOG
NPTF Ends



Features

1/4" - 2" Full Port
Locking Handle Standard
Bottom Loaded
Blowout Proof Stem
Adjustable Packing Gland
ISO 5211 4-Bolt Mounting Pad
316 Stainless Steel Trim Standard
Positive Grounding
150 PSI Saturated Steam
Oval Locking Handle (Opt.)
Mineral Filled Seats (250 PSI Steam Service)

Specifications

ANSI B1.20.1
ANSI B1.20.3
MSS SP-110
ISO 5211

Certified

NACE MR0175/ISO 15156
CE 11/4" & Larger
CRN# OC 7841.50126789

Series 7100-M3 Series 8100-M3

7100-Carbon Body/Stainless Trim
8100-All Stainless Construction
1/4" - 2", 2000 WOG,
NPTF Ends



Features

Unibody Construction
316 Stainless Steel Trim Standard
Locking Handle Standard
Bottom Loaded
Blowout Proof Stem
Adjustable Packing Gland
Positive Grounding
150 PSI Saturated Steam
Oval Locking Handle (Opt.)
Mineral Filled Seats
(250 PSI Steam Service)

Specifications

AAR
API 608
(except no name plate)
API 607 4th Edition
ANSI B1.20.1
ANSI B1.20.3
MSS SP-110

Certified

NACE MR0175 / ISO 15156
CRN# OC 7841.50126789

Series 7200-M3 Series 8200-M3

7200-Carbon Body/Stainless Trim
8200-All Stainless Construction
1/4" - 2", 2000 WOG
2 1/2" - 4", 1500 WOG,
NPTF Ends



Features

1/4" - 4" Full Port
2-Piece Seal Welded Construction
316 Stainless Steel Trim Standard
Locking Handle Standard
Bottom Loaded
Blowout Proof Stem
Adjustable Packing Gland
ISO 5211 4-Bolt Mounting Pad
Positive Grounding
150 PSI Saturated Steam
Oval Locking Handle (Opt.)

Specifications

AAR
ANSI B1.20.1
ANSI B1.20.3
MSS SP-110
ISO 5211

Certified

NACE MR0175/ISO 15156
CE 11/4" & Larger
CRN# OC 7841.50126789



Ball Valves

Series 7400 Series 8400

7400 - Carbon Steel Body/Stainless Steel Trim

8400 - All Stainless Steel Construction

Threaded, Socket Weld or Butt Weld Ends

3/4" - 2 1/2" Standard Port

1/4" - 2" Full Port

Operating Pressures to 4000 WOG

Features

- 3/4" - 2 1/2" Standard Port
- 1/4" - 2" Full Port
- 3-Piece 4-Bolt Construction
- With Enclosed Body Bolts
- Bottom Loaded
- Blowout Proof Stem
- Adjustable Packing Gland
- Center Section Actuation Mounting
- Internal Entry Stem
- Handle With Slide Lock
- ISO 5211 Direct Mount
- Actuator Mounting Pad
- Live Loaded High Cycle,
- TFE V-Ring Style Packing
- Optional TFE Coated "S" Gasket
- Body Seals For High Temp &
- API 607 Applications
- Integral Fire Lip
- Full ANSI Class 600
- Wall Thicknesses

Optional Trim Materials Available

Seats

- Uniseal™
- Mineral Filled PTFE
- PEEK™
- Delrin

Specifications

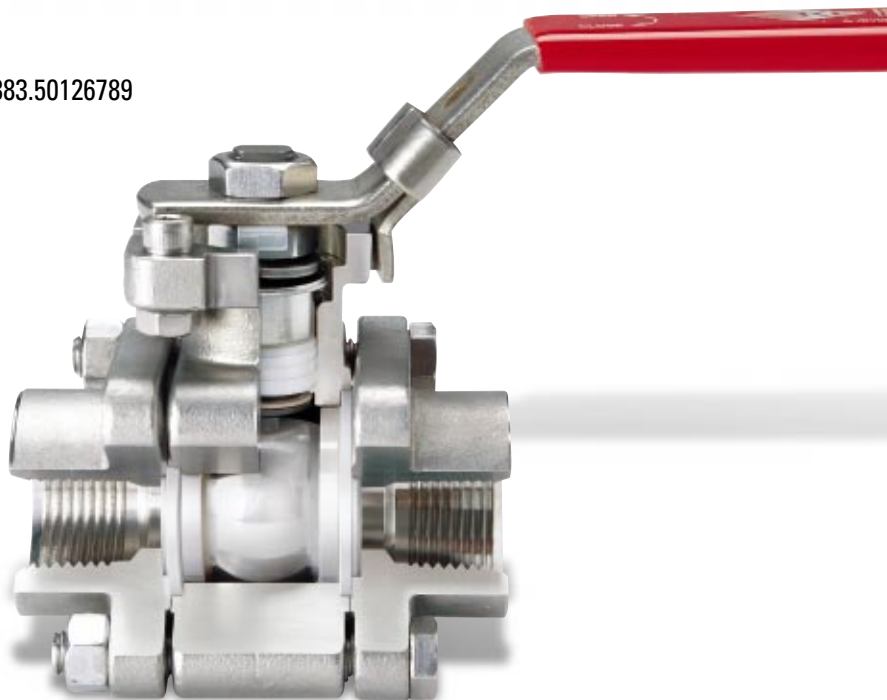
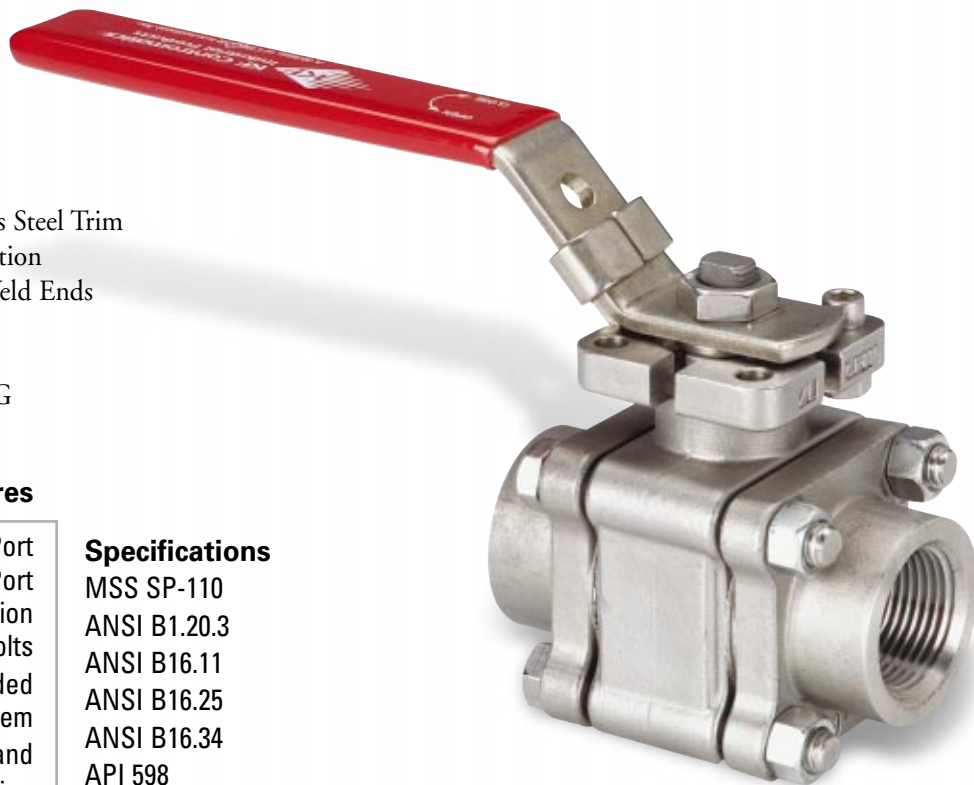
- MSS SP-110
- ANSI B1.20.3
- ANSI B16.11
- ANSI B16.25
- ANSI B16.34
- API 598
- API 607

Certified

CRN# OC 11383.50126789

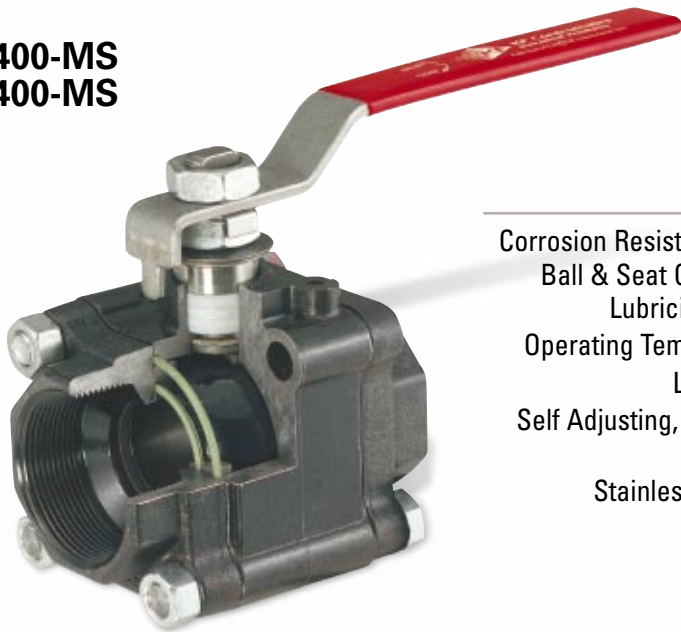
Available End Connections

- Female NPTF
- Socket Weld
- Butt Weld (Specify Pipe Schedule)
- Extended Pipe Ends
- Combinations Of Above



Ball Valves

Series 7400-MS Series 8400-MS



Features

Corrosion Resistant Stainless Steel
Ball & Seat Coated To Increase
Lubricity & Reduce Wear
Operating Temperatures To 800°F
Low Leakage Rates
Self Adjusting, High Temperature,
Stem Packing
Stainless Steel "S" Gasket
Body & Seat Seals

Specifications

ANSI B16.34
API 598
ANSI B1.20.3
ANSI B16.11
ANSI B16.25

Certified

CRN# OC 7841.50126789
CE 1 1/4" & Larger

Series 7700 Series 8700

7700-Carbon Body/Stainless Trim

8700-All Stainless Construction

1/4" - 3", 1000 PSI WOG, Full Port, Female NPT & Socket Weld Ends

Features

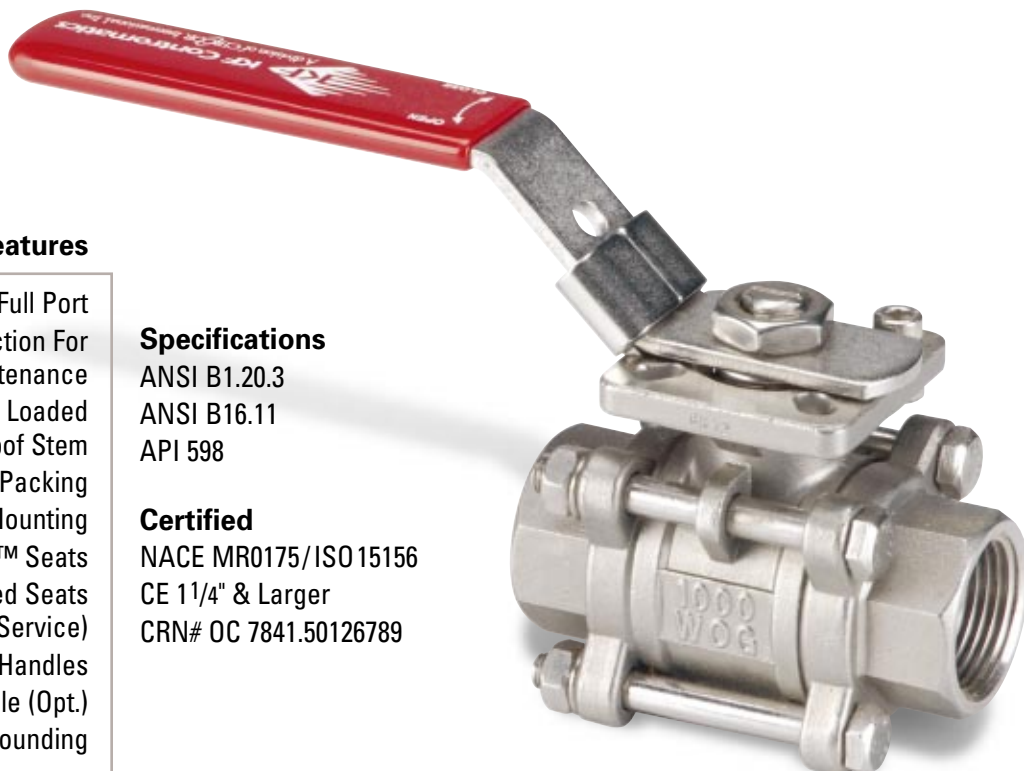
Full Port
Three-Piece Construction For
Ease of Maintenance
Bottom Loaded
Blowout Proof Stem
Live Loaded PTFE Stem Packing
ISO 5211 Direct Actuator Mounting
Uniseal™ Seats
Mineral Filled Seats
(Opt. Steam Service)
Locking Handles
Oval Locking Handle (Opt.)
Positive Grounding

Specifications

ANSI B1.20.3
ANSI B16.11
API 598

Certified

NACE MR0175/ISO 15156
CE 1 1/4" & Larger
CRN# OC 7841.50126789



Ball Valves

Series 7300 Series 8300

7300-Carbon Body/Stainless Trim
8300-All Stainless Construction
3/4"-2 1/2", 1500 WOG, Reduced Port,
Thread, Socket Weld or Butt Weld Ends
1/4"-2", 1500 WOG, Full Port, Thread,
Socket Weld or Butt Weld Ends
ANSI Class 600



Features

- Full Or Reduced Port
In Sizes 1/4"-2 1/2"
- Three-Piece Construction
- Operating Pressures To 4500 PSI
With Optional Trim Materials
- All Wall Thicknesses Comply With
ANSI B16.34 Class 1500
- Bottom Loaded
Blowout Proof Stem
- Adjustable Packing Gland
- Positive Grounding
- Drilled & Tapped For
Actuator Mounting (Opt.)
- Oval & Locking Handles (Opt.)
- Various Seat Options

Specifications

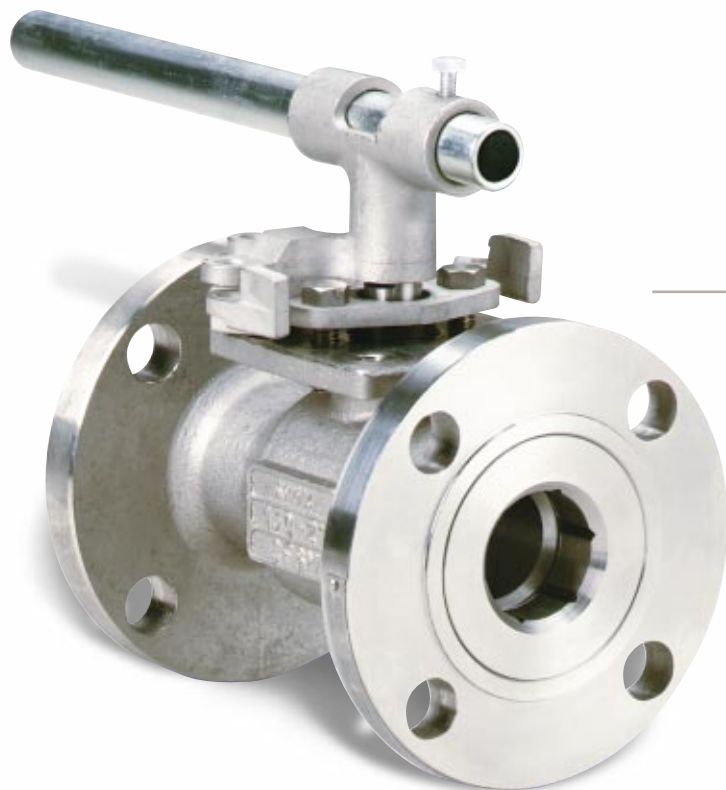
- ANSI B16.34
- ANSI B1.20.3
- ANSI B16.11
- ANSI B16.25
- API 598
- API 607 4th Edition
- ASME B31.1

Certified

- CE 1 1/4" & Larger
- CRN# OC 7841.50126789
- NACE MR0175/ISO 15156
- CGA 3.16



Ball Valves



Series 1500 & 2500

1501/1503-WCB Body/Stainless Steel Trim
2501/2503-CF8M Body/Stainless Steel Trim
1/2" - 8", ANSI Class 150, Flanged End, Standard Port
1/2" - 6" ANSI Class 300, Flanged End, Standard Port

Features

Unibody Standard Port
Blowout Proof
Grounded Stem
Adjustable Stem Packing
For Extended Life
Fully Machined
Actuator Mounting Pad
Optional Materials Available
Locking Handle

Specifications

ANSI B16.34
ANSI B16.5
ANSI B16.10
API 598
API 607 4th Edition
ASME B31.1

Certified

NACE MR0175/ISO 15156
CE Mark 1 1/2" & Larger
CRN# OC 7841.50126789
CGA 3.16

Series 1800 & 2800

1801/1803-WCB Body/Stainless Steel Trim
2801/2803-CF8M Body/Stainless Steel Trim
1" - 10", ANSI Class 150, Flanged End, Full Port
1" - 8" ANSI Class 300, Flanged End, Full Port

Features

Full Port
Blowout Proof Grounded Stem
Two-Piece Body Design
For Ease Of Maintenance
Adjustable Stem Packing
For Extended Life
Fully Machined
Actuator Mounting Pad
Optional Materials Available
Locking Handle

Specifications

ANSI B16.34
ANSI B16.5
ANSI B16.10
API 598
API 607 4th Edition
ASME B31.1

Certified

NACE MR0175/ISO 15156
CE Mark 1 1/2" & Larger
CRN# OC 7841.50126789



Ball Valves

Series 1500-S1 & 2500-S1

1 1/2"-8", ANSI Class 150, Flanged End, Std. Port

1"-8", ANSI Class 150, Flanged End, Full Port

1 1/2"-6", ANSI Class 300, Flanged End, Std. Port

1"-8", ANSI Class 300, Flanged End, Full Port

Features

Same Materials & Design As
Standard Flanged Valve
Multiple PTFE V-Ring
Style Stem Packing
Live Loaded 17-7 Stainless Steel
Belleville Spring Mechanism
For Increased Sealing Capacity
Field Retro-Fit Kit Available
Minimum Operating
Temperatures To -70°F
Anti-Vibration Nuts On Packing
Neutralizes Pipeline Vibration

Specifications

ANSI B16.34, B16.5 & B16.10

API 598

Certified

CE 1 1/4" & Larger

CRN# OC 7841.50126789

CGA 3.16 & 6.5



Secure Locking
Device

Series CL1500

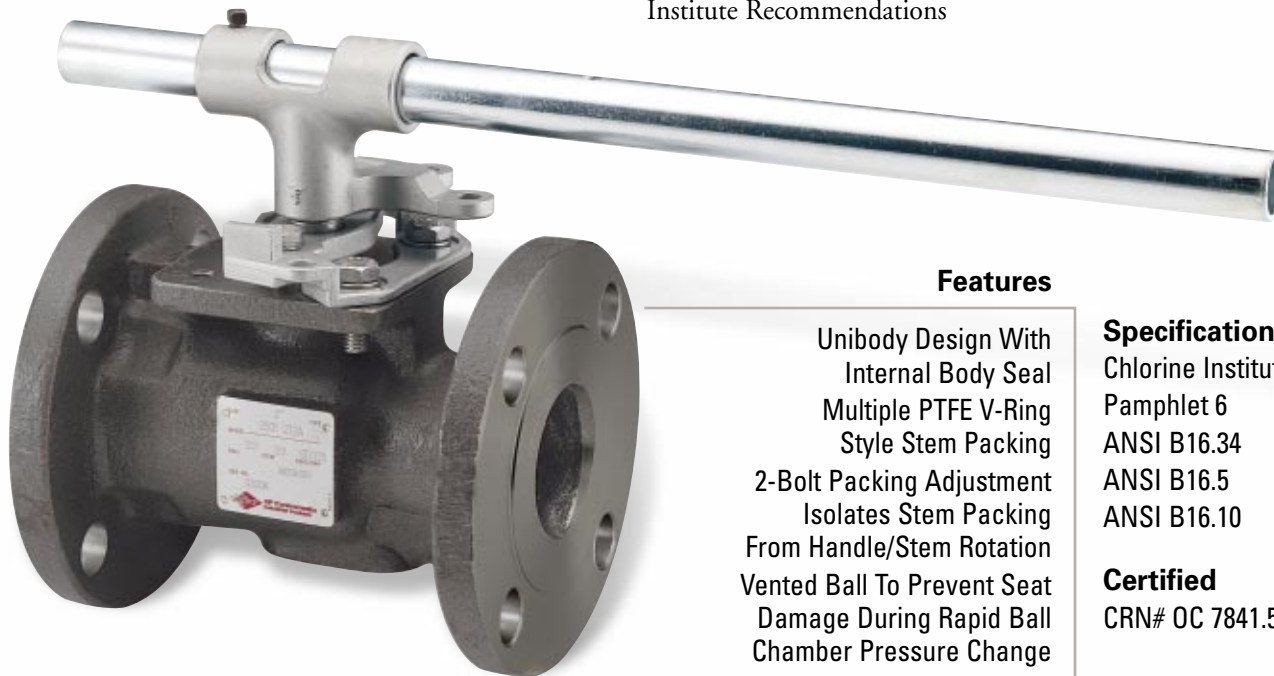
Carbon Steel Body/Monel Trim

1/2"-6", ANSI Class 150, Flanged End

1/2"-6", ANSI Class 300, Flanged End

Cleaned & Prepared To Chlorine

Institute Recommendations



Features

Unibody Design With
Internal Body Seal
Multiple PTFE V-Ring
Style Stem Packing
2-Bolt Packing Adjustment
Isolates Stem Packing
From Handle/Stem Rotation
Vented Ball To Prevent Seat
Damage During Rapid Ball
Chamber Pressure Change

Specifications

Chlorine Institute

Pamphlet 6

ANSI B16.34

ANSI B16.5

ANSI B16.10

Certified

CRN# OC 7841.50126789



Check Valves

Features

Long Pattern
Short Pattern
Single 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 (Optional)
NACE MR0175/
ISO 15156

Series 10 & 10S

2"-72", ANSI Cl. 150, 300, 600,
900, 1500 & 2500
API 2000, 3000 & 5000
Wafer Long Pattern Single Disc,
Internal Spring Assist
API 6D, API 594, API 6A,
NACE MR0175/ISO 15156,
& CE Mark



Series 20 & 22

2"-72", ANSI Cl. 125 & 150
Wafer Semi-Lug Single Disc External
Spring Assist, Air Cushion (Series 22 only)
ANSI B16.1 & B16.47



Series 12

2"-24", ANSI Cl. 150, 300,
600 & 900
Wafer Short Pattern
Single Disc, No Spring Assist
API 6D & API 594



Series 31

2"-4", MOP 300, 750,
2200, 3000 & 5000 PSI
Threaded Single Disc,
No Spring Assist



Series 18

4"-12", ANSI Cl. 125 & 150
Wafer Style, External Spring
Assist w/Back Flush Lever
ANSI B16.1 & ANSI B16.5



Series 35

2"-36", ANSI Cl. 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 6D (Monogrammed), API 607 4th Edition,
API 594, API 6A, NACE MR0175/ISO 15156, CE Mark



Trunnion Mounted & Floating Ball Valves (ANSI Class 600-1500)



Series FA

2"FP-14"RP, ANSI Class 150 & 300
Flanged End & Weld End

Features

Two-Piece Bolted
Trunnion Mounted
Stem & Seat Lube
Sealant Injection Fittings
Double Block & Bleed
Low Operation Torques
Ball Cavity Bleed Valve
Anti-Static
Firesafe (Optional)
Locking Device (Optional)

Specifications

ANSI B16.34
API 6D
API 6FA
ASME B31.1

Certified

NACE MR0175/ISO 15156
CE Mark (Opt.)

Series F (O-Ring Design)

1"FP-12"RP, ANSI Class 600, 900 & 1500
Flanged End & Weld End

Features

Two-Piece Bolted
Floating
Blowout Proof Stem
Stem Journal Lube
Sealant Fitting
Low Operating Torques
Locking Device
Weather Seal (Stem)
Anti-Static (Optional)
Firesafe (Optional)
Square Nut (Optional)

Specifications

ANSI B16.34
API 6D
ASME B31.1

Certified

API 607 4th Edition
NACE MR0175/ISO 15156
CE Mark (Opt.)



Pneumatic Actuators

Series PA/PAS M5

16 Sizes, In 90° & 180° Rotation, From 100 in./lbs. to 37,200 in./lbs.



KF Contromatics
Industrial Products
A Brand of CIGCOR Energy Products, Inc.
MADE IN ITALY

MODEL	PA 300 DLS M5	
SERIAL	155112	302

MAX P.S.I. 150 MAX OUTPUT IN-LBS @80 P.S.I.
DESIGNED TO MEET ISO 5211 AND NAMUR STANDARDS
CAUTION: BEFORE DISASSEMBLY, REFER TO MAINTENANCE INSTRUCTIONS WITH SPECIAL REFERENCE TO SAFETY NOTES

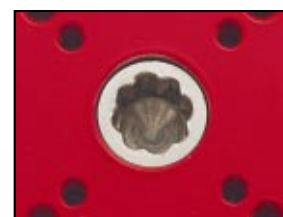


Features

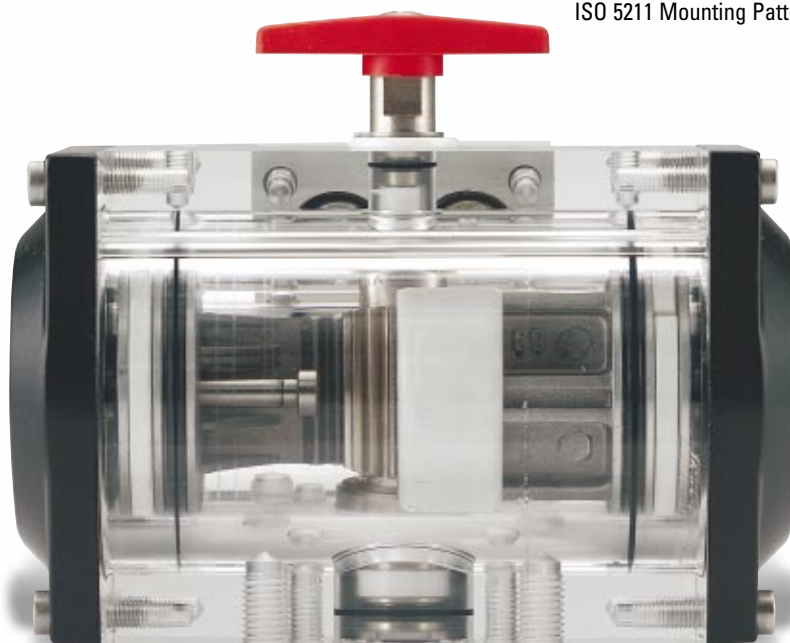
- Rack & Pinion Design
- Mounting Dimensions To ISO 5211
- Hard Anodized Extruded Aluminum Body Painted With Powder Epoxy Polyester Paint
- Double Travel Stops Standard (Except 100 Model)
- Easily Converted From Double Acting To Spring Return
- Fully Encapsulated Springs For Safety
- Accessory Mounting Dimensions To NAMUR Specifications
- Nickel Plated & Stainless Steel Units (Opt.)

Specifications
ISO 5211
NAMUR

Certified
CGA 6.5
Factory Mutual



ISO 5211 Mounting Pattern



Electric Actuators

Series PF

Reversing Electric Actuator, 4 Models From 400 in./lbs. to 2000 in./lbs.

Features

- Combination NEMA IV, VII & IX Enclosure
- Protective Hybrid Epoxy Coating
- Stainless Steel Cover Bolts
- Split Phase Reversing Motor With Thermal Overload Protection
- 4140 Hardened Steel Gear Drive
- Highly Visible Position Indicator
- Declutchable Manual Override
- 16 Point Terminal Strip

Options

- Auxiliary Limit Switches (2)
- Heater/Thermostat
- Extended Duty Cycle Motors
- Electro-Mechanical Motor Brake
- 4-20 MA Positioner Board
- 0-1000 OHM Feedback Potentiometer
- Center Off Operation
- Cycle Length Control Module
- Multi-Turn Operation
- Failsafe Capability
- 120V, 220V, 12VAC, 24AC, 24VDC, 12VDC



Specifications
NEMA

Certified
NEMA IV, VII & IX



Series EA 350

Unidirectional Electric Actuator
Torque Output 350 in./lbs., 115 VAC & 24 VAC

Features

- Ideal For Use On Valves Up To 2" Standard Port
- Hardened Precision Gear Train
- Manual Override
- Standard Terminal Strip Connections
- Adjustable Start/Stop Positions
- Standard NEMA-4 Construction
- Standard Auxiliary SPDT Switch
- 220 VAC Model Available

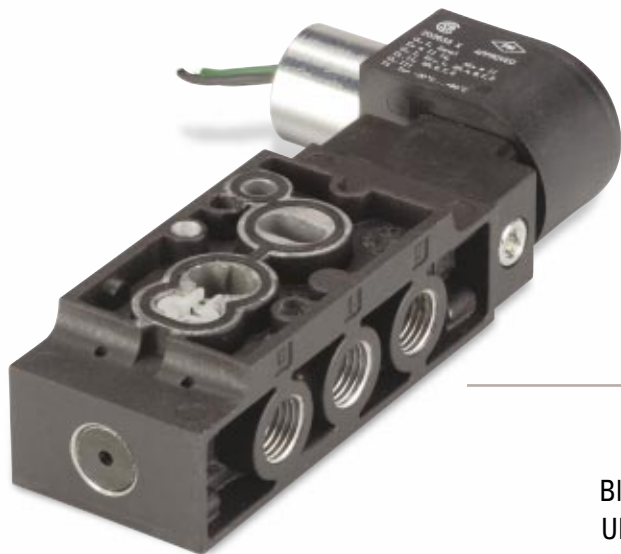
Specifications
NEMA

Certified
NEMA IV



Automation Accessories

BMS Solenoids



Features

NAMUR Mount
NEMA 4 & 4, 7, 9
Block Mounted Solenoid
UL, FM & CSA Approved
Convertible from 3 Way To 4 Way
35 To 150 PSI Operation
-20°F To 180°F, Option To 300°F
Optional Voltages Available



PMV Positioners

Features

Sturdy, Simple, Reliable Design
Tapped Exhaust Port
Easy To Add On Feedback Unit F5
Simple Calibration,
External Zero Adjustment
High Gain Pilot Valve
Built In Gauge Ports
Bright Visible Indicator,
Flat Or Dome Style
Stainless Steel Cam



Automation Accessories

LS Model Limit Switch

Features

- NEMA 4, 4X, 7 & 9 Enclosures
- Prewired Terminal Block
- UL, FM & CSA Approved
- Highly Visible Position Indicators
- Mechanical & Proximity Switches
- Resin & Aluminum Housings



NAMUR Direct Mount

KF Contromatics Limit Switch

Features

- Co-Polyester; Eastar® Housing
- Aluminum & Stainless
Housings Available
- NEMA 3, 4, 4X, 7 & 9
- Mechanical, Inductive &
Proximity Switches
- Precise Cam Positioning
- Easy Wire Termination
- Highly Visible Position Indicator
- NAMUR Direct Mountable







Worldwide Sales Offices



**KF Contromatics, 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 Contromatics is the right choice for all your flow control needs.**

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Licensed for Manufacture
in accordance with API 6A
& 6D and Firetest
to API 6FA and 607



Registered to the ISO 9001
Quality System Standard,
accredited by U.K., Dutch
and German qualifying
authorities.



www.circorenergy.com

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