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.

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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

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

CRN • Canadian Registration No.
  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.

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
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

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**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.)

**Specifications**
MSS SP-110

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**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/ISO15156
CE 1 1/4" & 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/ISO15156
CE 1 1/4" & 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
- 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
- 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
- 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
- ANSI B16.11
- ANSI B16.25
- ANSI B1.20.3
- API 598

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

Series 7400-MS
Series 8400-MS

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
- CRN# OC 7841.50126789
- CE 1 1/4" & Larger
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\(\frac{1}{2}\)“-8”, ANSI Class 150, Flanged End, Std. Port
1”-8”, ANSI Class 150, Flanged End, Full Port
1\(\frac{1}{2}\)”-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\(\frac{1}{4}\)” & Larger
- CRN# OC 7841.50126789
- CGA 3.16 & 6.5

Series CL1500

Carbon Steel Body/Monel Trim
1\(\frac{1}{2}\)”-6”, ANSI Class 150, Flanged End
1\(\frac{1}{2}\)”-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

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### 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/ISO15156, & 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 18
4"-12", ANSI Cl. 125 & 150
Wafer Style, External Spring Assist w/Back Flush Lever
ANSI B16.1 & ANSI B16.5

### Series 31
2"-4", MOP 300, 750, 2200, 3000 & 5000 PSI
Threaded Single Disc, No Spring Assist

### 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
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/ISO15156
- 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/ISO15156
- CE Mark (Opt.)
Pneumatic Actuators

Series PA/PAS M5

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

**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
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
- 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

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

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.

Suppling 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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