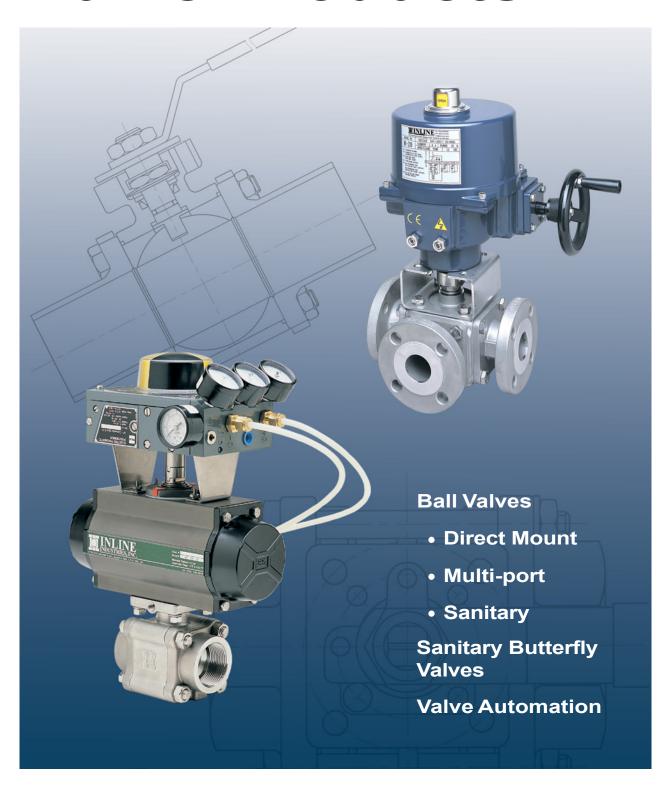
# **Valve Products**







**Inline** has been supplying innovative valve solutions to the process industry for nearly twenty-five years. Our extensive line of ball valves is widely recognized for innovative design, reliable performance and exceptional

value. Inline valves are designed and tested to the industry's highest standards, supported by

knowledgeable and responsive technical sales professionals, and are usually available from stock from the large inventory we maintain for your just-in-time needs.





## Innovation

Inline is committed to developing industry-leading process solutions. We introduced high-cycle ISO 5211 direct mount technology to the U.S. market — a design now used industry-wide.

Innovations like this are a corner-stone of the Inline design philosophy. Our line of firesafe, control, multi-port and high purity ball valves carries on this tradition. Coupled with our custom engineered products, we provide system designers with more process control options than ever before.

## Reliability

Inline designs, builds and tests valves to a wide range of national and international standards including ASME B16.34, BPE, 3-A,

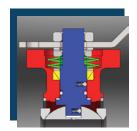


and NACE. Our ISO 9001-2008 quality control process insures that the products we supply are tested and ready for service. Inline is a



licensed 3-A Symbol holder, is certified to use the CE marking for EU markets, and carries validated CRN numbers for Canada.

## Consistent Performance



Inline valves provide long-lasting, trouble-free service with live-loaded, high-cycle stem seals standard on a wide range of high performance valves for high purity, high pressure, high temperature, vacuum, and many other process applications. As

a manufacturer, we provide customers with these

same high quality products year after year and, when it finally comes time to replace worn parts, we have repair kits that fit.



## **Product Support**

We stand behind our products with a responsive sales and technical support team ready to assist you with product information, pricing, valve selection and automation.



Detailed technical drawings and test reports are readily available for all of your system design and documentation needs. Current product information can be found on our website at www.ballvalve.com.

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For Detailed Product Information
Please Visit
www.ballvalve.com

# Industrial



109S 1-Piece Flanged Ball Valve

Standard Port
2" to 6"
ANSI Class 150/300
A351 Gr. CF8M, A216 Gr. WCB
Seats: RTFE (15% CF) / TFM
Ends: RF Flg 150/300



209F 2-Piece Flanged Ball Valve

Full Port 1/2" to 12" ANSI Class 150/300 A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% CF) / TFM Ends: RF Flg 150/300



302F 3-Piece Ball Valve

Full Port 1/4" to 3" Up to 1000 PSI CWP A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% GF)/TFM Ends: NPT, BW Sch 5/10/40,

SW, RF Flg 150/300, Grv, Compr, Tk Bottom



304F 3-Piece Ball Valve

Full Port 1/4" to 4" Up to 1000 PSI CWP A351 Gr. CE8M, WCF

A351 Gr. CF8M, WCB (Ends Only)
Seats: RTFE (15% CF) / TFM
Ends: NPT, BW Sch 5/10/40,
SW, RF Flg 150/300,
Grv, Compr, Tk Bottom



334 3-Piece Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to ANSI Class 900 A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% CF) / TFM Ends: NPT, BW Sch 5/10/40/80,

> SW, Compr, Tk Bottom, Grv, RF Flg 150-900



364 Diverter Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to ANSI Class 900 A351 Gr. CF8M

Seats: TFM Ends: NPT, BW Sch 5/10/40/80,

SW, Grv, Compr, RF Flg 150-900



505F 3/4/5-Way Ball Valve

Full Port 1/4" to 4" Up to 1000 PSI CWP A351 Gr. CF8M

Seats: RTFE (15% CF) / TFM Ends: NPT, BW Sch 5/10/40,

SW. Grv



509F 3/4/5-Way Flanged Ball Valve

Full Port 1/2" to 4" ANSI Class 150/300 A351 Gr. CF8M

Seats: RTFE (15% CF) / TFM Ends: RF Flg 150/300

# Firesafe



#### 109S 1-Piece Flanged Firesafe Ball Valve

Standard Port 2" to 4" ANSI Class 150 A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% CF)/TFM Ends: RF Flg 150



### 344 3-Piece Firesafe Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to ANSI Class 900 A351 Gr. CF8M, A216 Gr. WCB Seats: TFM

Ends: NPT, BW Sch 5/10/40/80, SW, Compr, Tk Bottom, Grv, RF Flg 150-900



### 344T 3-Piece Firesafe Ball Valve

Tube Full Port 1/4" to 2" Up to ANSI Class 900 A351 Gr. CF8M Seats: TFM

Ends: CL, Tube OD BW, Ext Tube OD BW, KF, Tk Bottom



### 346 3-Piece Firesafe Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to 4000 PSI CWP A351 Gr. CF8M, A216 Gr. WCB Seats: Delrin AF

Ends: NPT, SW, BW Sch 80, SAE, Compr, RF Flg 150-1500

# Special Service

## High Temperature



334/344 (Firesafe) 3-Piece Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to ANSI Class 900 A351 Gr. CF8M, A216 Gr. WCB

Seats: Infill Ends: NPT, BW Sch 5/10/40/80,

SW, Grv, Compr



### 336/346 (Firesafe) 3-Piece Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to 4000 PSI CWP A351 Gr. CF8M, A216 Gr. WCB

Seats: PEEK

Ends: NPT, BW Sch 5/10/40/80,

SW, Grv, Compr

## High Pressure



336/346 (Firesafe) 3-Piece Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to 4000 PSI CWP A351 Gr. CF8M, A216 Gr. WCB Seats: Delrin AF

Ends: NPT, BW Sch 80, SW,

SAE, Compr



### 336 HP (Special Order Only) 3-Piece Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to ANSI Class 2500 A351 Gr. CF8M, A216 Gr. WCB Seats: Delrin AF

Ends: Delrin AF

Ends: NPT, BW Sch 80, SW,

SAE, Compr

## Air Safety Exhaust Valve



202F - ASEV 2-Piece Ball Valve

Full Port 1/4" to 2" 150 PSI CWP

A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% GF)/TFM

Ends: NPT



204F - ASEV 2-Piece Ball Valve

Full Port 1/4" to 2" 150 PSI CWP A351 Gr. CF8M

Seats: RTFE (15% CF) / TFM

Ends: NPT



302F - ASEV 3-Piece Ball Valve

Full Port 1/4" to 2" 150 PSI CWP

A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% GF) / TFM

NPT, BW Sch 5/10/40, SW, Grv, Compr, RF Fla 150



### 304F - ASEV 3-Piece Ball Valve

Full Port 1/4" to 2" 150 PSI CWP A351 Gr. CF8M

Seats: RTFE (15% CF)/TFM Ends: NPT, BW Sch 5/10/40,

SW, Grv, Compr, RF Flg 150

### Control Valve



### 324/342 (Firesafe) 3-Piece Control Valve

Full / Standard Port 1/4" to 2-1/2"

Up to ΔP to 50 PSI Saturated Steam

500 PSI Liquid A351 Gr. CF8M, A216 Gr. WCB

Seats: Infill x 30°, 60°, 1/8" Slotted Ends: NPT, BW Sch 5/10/40/80, SW, Grv, Compr,

SW, Grv, Compr RF Flg 150/300



## 327F/342T (Firesafe) 3-Piece Control Valve

Tube Full Port 1/2" to 2"

Up to ΔP to 50 PSI Saturated Steam

500 PSI Liquid

A351 Gr. CF8M, A216 Gr. WCB Seats: TFM x 30°, 60°, 1/8" Slotted Ends: CL, Tube OD BW,

Ext Tube OD BW, Compr, Tk Bottom, KF

# Custom Fabrication





- Clean-In-Place
- · Double Block and Bleed
- Manifolds
- Special End Connections
- · Steam-Jackets
- · Stem Extensions



# Special Service Cont'd

## Tube Compression/Instrumentation



302C 3-Piece Ball Valve

Full Port 1/4" to 1" Up to 1000 PSI CWP A351 Gr. CF8M

Seats: RTFE (15% GF)/TFM Ends: Compression



304C 3-Piece Ball Valve

Full Port 1/4" to 1" Up to 1000 PSI CWP A351 Gr. CF8M

Seats: RTFE (15% CF) / TFM Ends: Compression



317C 3-Piece Ball Valve

Tube Full Port 1/4" to 1" Up to 1000 PSI CWP A351 Gr. CF8M Seats: PTFE Ends: Compression



334C/344C (Firesafe) 3-Piece Ball Valve

Standard Port 1/4" to 1" Up to ANSI Class 900 A351 Gr. CF8M

Seats: RTFE (15% CF)/TFM Ends: Compression



336C/346C (Firesafe) 3-Piece Ball Valve

Standard Port 1/4" to 1" Up to ANSI Class 1500 A351 Gr. CF8M Seats: Delrin AF Ends: Compression



337C 3-Piece Ball Valve

Tube Full Port 1/4" to 1" Up to 1000 PSI CWP A351 Gr. CF3M Seats: TFM Ends: Compression



364C Multi-Port Ball Valve

Standard Port 1/4" to 1" Up to ANSI Class 900 A351 Gr. CF8M Seats: TFM Ends: Compression



507C Multi-Port Ball Valve

Full Port
1/4" to 1"
Up to 1000 PSI CWP
A351 Gr. CF8M
Seats: TFM
Ends: Compression





104R 1-Piece Ball Valve

Reduced Port 1/4"x1/4" to 1/2"x1/2" 800 PSI CWP A351 Gr. CF8M Seats: PTFE Ends: FNPT x MNPT



908 Needle Valve

1/4" to 1" Up to 6000 PSI CWP 316SS, Carbon Steel Ends: NPT



289F 2-Piece High Alloy Ball Valve

Full Port 1/2" to 12" ANSI Class 150/300 Alloy-C (CW12MW), Alloy 20,

254 SMO Seats: TFM

Ends: RF Flg 150/300



384 3-Piece High Alloy Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to 2000 PSI CWP Alloy-C (CW12MW), Alloy 20, 254 SMO

Seats: TFM Ends: NPT, SW

# Special Service Cont'd

## Biopharmaceutical / High Purity / Sanitary



307F 3-Piece Ball Valve

Tube Full Port 1/2" to 4" Up to 1000 PSI CWP A351 Gr. CF8M Seats: PTFE

Ends: CL, Tube OD BW, Ext Tube OD BW, I-Line,

Compr



317F 3-Piece Ball Valve

Tube Full Port 1/4" to 6" Up to 1000 PSI CWP A351 Gr. CF8M Seats: PTFE

Ends: CL, Tube OD BW, Ext Tube OD BW, I-Line, Compr, Tk Bottom, KF



334T/344T (Firesafe) 3-Piece Ball Valve

Tube Full Port 1/4" to 2" Up to 3600 PSI CWP A351 Gr. CF8M

Seats: TFM

Ends: CL, Tube OD BW, Ext Tube OD BW, Compr, Tk Bottom, KF



337F 3-Piece Ball Valve

Tube Full Port 1/4" to 4" Up to 1000 PSI CWP A351 Gr. CF3M Seats: TFM

Seats: TFM Ends: CL, Tube OD BW,

Ext Tube OD BW, Compr, Tk Bottom, KF



367F 3-Piece Diverter Ball Valve

Tube Full Port 1/2" to 2" Up to 1000 PSI CWP A351 Gr. CF8M Seats: TFM

Ends: CL, Tube OD BW,

Ext Tube OD BW, Compr



387F 3-Piece Ball Valve

Tube Full Port 1/4" to 4" Up to 1000 PSI CWP A351 Gr. CF8M Seats: TFM

Ends: CL, Tube OD BW Ext Tube OD BW, I-Line, Compr, Tk Bottom, KF

507F 3/4/5-Way Ball Valve

Full Port 1/2" to 4" Up to 1000 PSI CWP A351 Gr. CF8M Seats: TFM

Ends: CL, Tube OD BW, Ext Tube OD BW, Compr



707F Sanitary Butterfly Valve

Tube Full Port 1" to 4" Up to 150 PSI CWP A351 Gr. CF8

Seats: Silicone, Viton, EPDM Ends: CL, Tube OD BW, I-Line, Bevel Seat Thread

### **Tank Bottom**



717F Sanitary Butterfly Valve

Tube Full Port 1" to 6" Up to 150 PSI CWP A351 Gr. CF8M

Seats: Silicone, Viton, EPDM Ends: CL, Tube OD BW, I-Line, Bevel Seat Thread 3-Piece Ball Valve
Full Port
1" to 3"
Up to 1000 PSI CWP

Up to 1000 PSI CWP A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% GF)/TFM

Ends: Tk Bottom x NPT, BW Sch 5/10/40, SW, RF Flg 150/300, Grv,

Compr



304F 3-Piece Ball Valve

Full Port 1" to 4" Up to 1000 PSI CWP A351 Gr. CF8M

Seats: RTFE (15% CF) / TFM Ends: Tk Bottom x NPT, BW Sch 5/10/40, SW, RF Flg 150/300, Grv,

Compr



317F 3-Piece Ball Valve

Tube Full Port 1" to 6" Up to 1000 PSI CWP A351 Gr. CF8M Seats: PTFE

Ends: Tk Bottom x CL, Tube OD BW,

Ext Tube OD BW, I-Line, Compr, RF Flg 150/300,

# Special Service Cont'd

### Tank Bottom Cont'd



334T/344T (Firesafe) 3-Piece Ball Valve

Tube Full Port
1" to 2"
Up to ANSI Class 900
A351 Gr. CF8M
Seats: TFM
Ends: Tk Bottom x CL,

Tube OD BW, Ext Tube OD BW, Compr, RF Flg 150-900, KF



334/344 (Firesafe) 3-Piece Ball Valve

Full / Standard Port 1", 1-1/2", 2" Up to ANSI Class 900 A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% CF) / TFM Ends: Tk Bottom x NPT,

BW Sch 5/10/40, SW, Grv, Compr, RF Flg 150-900



337F 3-Piece Ball Valve

Tube Full Port 1" to 4" Up to 1000 PSI CWP A351 Gr. CF3M Seats: TFM

Ends: Tk Bottom x CL, Tube OD BW, Ext Tube OD BW, I-Line, Compr, NPT, RF Flg 150/300, KF

# **Diverter & Multiport**



364 3-Piece Diverter Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to Class 900 A351 Gr. CF8M

Seats: RTFE (15% CF) / TFM
Ends: NPT, BW Sch 5/10/40/80,
SW, RF Flg 150-900, Grv,

Compr



367F 3-Piece Diverter Ball Valve

Tube Full Port 1/2" to 2" Up to 1000 PSI CWP A351 Gr. CF8M Seats: TFM

Ends: CL, Tube OD BW, Ext Tube OD BW, Compr,

I-Line



502S Diverter Ball Valve

Standard Port 1/2" to 2" Up to 1000 PSI CWP A351 Gr. CF8M

Seats: RTFE (15% GF)

Ends: NPT



503 3-Way Ball Valve

Full / Standard Port 1/4" to 2" Up to 1000 PSI CWP A351 Gr. CF8M

Seats: RTFE (15% CF)

Ends: NPT



505F 3/4/5-Way Ball Valve

Full Port 1/4" to 4" Up to 1000 PSI CWP A351 Gr. CF8M

A351 Gr. CF8M Seats: RTFE (15% CF) / TFM Ends: NPT, BW Sch 5/10/40,

SW. Grv



507F 3/4/5-Way Ball Valve

Full Port 1/2" to 4" Up to 1000 PSI CWP A351 Gr. CF8M Seats: TFM

Ends: CL, Tube OD BW, Ext Tube OD BW. Compr



509F 3/4/5-Way Flanged Ball Valve

Full Port 1/2" to 4" ANSI Class 150/300 A351 Gr. CF8M (316) Seats: RTFE (15% CF) / TFM Ends: RF Flg 150/300



514 3-Way Ball Valve

Full / Standard Port 1/4" to 2" Up to 1000 PSI CWP A351 Gr. CF8M

Seats: RTFE (15% CF) / TFM

Ends: NPT

# General Service



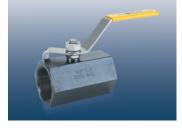
101R 1-Piece Ball Valve

Reduced Port 1/4" to 2" 800 PSI CWP A351 Gr. CF8M (316) Seats: PTFE Ends: NPT



102R 1-Piece Ball Valve

Reduced Port 1/4" to 2" 2000 PSI CWP A351 Gr. CF8M (316) Seats: RTFE (15% GF) Ends: NPT



103R 1-Piece Ball Valve

Reduced Port 1/4" to 2" 2000 PSI CWP S25C - CS

Seats: RTFE (15% GF)

Ends: NPT



104R 1-Piece Ball Valve

Reduced Port 1/4" x 1/4" to 1/2" x 1/2" 800 PSI CWP A351 Gr. CF8M Seats: PTFE Ends: FNPT x MNPT



201F 2-Piece Ball Valve

Full Port 1/4" to 3" Up to 2000 PSI CWP A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% CF)/TFM

Ends: NPT



201S 2-Piece Ball Valve

Standard Port 1/4" to 2" Up to 2000 PSI CWP A351 Gr. CF8M Seats: RTFE (15% GF)

Ends: NPT



202F 2-Piece Ball Valve

Full Port 1/4" to 2" Up to 1000 PSI CWP A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% GF)/TFM

Ends: NPT



302F 3-Piece Ball Valve

Full Port 1/4" to 3" Up to 1000 PSI CWP

A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% GF) / TFM Ends: NPT, BW Sch 5/10/40,

SW, RF Flg 150/300, Grv, Compr, Tk Bottom



904 / 906 Y-Strainer / Swing Check Valve

1/2" to 2" 600 PSI CWP (904) 200 PSI CWP (906) A351 Gr. CF8 Ends: NPT



905 / 907 Gate Valve / Globe Valve

1/2" to 2" 200 PSI CWP A351 Gr. CF8M Ends: NPT

## **Available Seat Materials**

- 15% Carbon Filled PTFE
- Delrin<sup>®</sup>AF (PTFE Filled Acetal Homopolymer)
- 50% 316SS Filled PTFE
- TFM (Modified PTFE)
- PTFE and Carbon Filled PEEK
- 15% Glass Filled PTFE
- Infill (Proprietary Filled PTFE)
- PTFE
- UHMWPE
- PCTFE
- Metal

## **Seat Options**

- Cavity Fillers
- 1-Piece Seat/Seal
- Control Seats

## **Direct Mount Actuation**



204F 2-Piece Ball Valve

Full Port 1/4" to 3" Up to 1000 PSI CWP A351 Gr. CF8M

Seats: RTFE (15% CF) / TFM

Ends: NPT



304F 3-Piece Ball Valve

Full Port 1/4" to 4"

Up to 1000 PSI CWP

A351 Gr. CF8M, WCB (Ends Only) Seats: RTFE (15% CF) / TFM Ends: NPT, BW Sch 5/10/40,

SW, RF Flg 150/300, Grv, Compr, Tk Bottom



334/344 (Firesafe) 3-Piece Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to Class 900

A351 Gr. CF8M, A216 Gr. WCB Seats: RTFE (15% CF) / TFM

Ends: NPT, BW Sch 5/10/40/80, SW, Compr, Tk Bottom, Grv, RF Flg 150-900



334T/344T (Firesafe) 3-Piece Ball Valve

Tube Full Port 1/2" to 2" Up to ANSI Class 900

A351 Gr. CF8M Seats: TFM

Ends: CL, Tube OD BW, Ext Tube OD BW, I-Line, Tk Bottom,

Compr, KF



337F 3-Piece Ball Valve

Tube Full Port 1/4" to 4" Up to 1000 PSI CWP A351 Gr. CF3M Seats: TFM

Ends: CL, Tube OD BW, Ext Tube OD BW, Compr,

Tk Bottom, KF



364 Diverter Ball Valve

Full / Standard Port 1/4" to 2-1/2" Up to Class 900 A351 Gr. CF8M

Seats: RTFE (15% CF) / TFM

Ends: NPT, BW Sch 5/10/40/80, SW, Grv, Compr, RF Flg 150-900



367F 3-Piece Diverter Ball Valve

Tube Full Port 1/2" to 2" Up to 1000 PSI CWP A351 Gr. CF8M Seats: TFM

Ends: CL, Tube OD BW Ext Tube OD BW, Compr



384 3-Piece High Alloy Ball Valve

Full / Standard Port 1/4" to 2-1/2" Class 900 Alloy C276

Seats: TFM Ends: NPT, SW

# Manual Actuation & Accessories



3-Way Ball Valve

Full / Standard Port 1/4" to 2" Up to 1000 PSI CWP A351 Gr. CF8M (316) Seats: RTFE (15% CF) / TFM

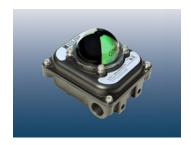
Ends: NPT



Spring Return & Oval Handle



**Gear Operator** 



**Limit Switch** 

# **Automation and Control**

### **Pneumatic**



- Design: 2- and 4-Piston Rack & Pinion, Sanitary (Butterfly Valve)
- Type: Double Acting and Spring Return
- Torque Range : Outputs to over 36,000 in/lbs
- Mounting: ISO 5211 and NAMUR
- Construction: Hard Anodized Aluminum, Stainless Steel
- Options/Accessories: Epoxy Coating, Nickel Plating, Stem Extensions, Mounting Kits,

Limit Switches, Proximity Switches, Visual Indicators,

Solenoid Valves, Positioners, Fusible Links

### **Electric**



- Torque Range: Outputs to 5,735 in/lbs
- Voltage: 12V AC/DC, 24V AC/DC, 110V AC, 220V AC, 1- or 3-Phase
- Duty Cycle: 25%, 75%, and 100%
- Modulating Signals: Input 4-20mA Output - 4-20mA 1-5V

2-10V

2-10V

- Enclosure: NEMA 4/4X, 7
- Options/Accessories: Stem Extensions, Mounting Kits, Heaters, Modulating Control Boards, Additional Switches, Thermostats, Spring Return

### Modulation and Control



- Type: Pneumatic, Electro Pneumatic, Digital
- Modulating Signals : Electric Input -4-20mA Pneumatic Input -

1-5V

3-15 psi Instrument Air

2-10V

Electric Output - 4-20mA

2-10V

Options/Accessories: Stem Extensions, Mounting Kits, Heaters, Thermostats,

Inline stocks an extensive inventory of valves, actuators, and accessories.

For product information and pricing Email: info@ballvalve.com

Phone: 800-568-8998



# **Quality and Reliability - Every Time**



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