

# AIROYAL COMPANY



Pneumatic and Electronic Motion Control Distributor

valves  
& flow controls



AIROYAL COMPANY  
[airoyalcompany.net](http://airoyalcompany.net)  
Ph: 973-761-4150  
Fax: 973-761-5731

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# Ball Valves

## Brass • Steel • Stainless Steel • Mini Ball Valves

A **Ball Valve** uses a pivoting ball that turns a quarter-turn rotation (90°) to control the flow of fluid. This pivoting ball has an orifice that allows flow as the ball pivots inside of a straight-through housing. Each ball is directly connected to a handle and provides an easy visual confirmation of the valve's flow status.

The handle position is a good indication of flow. When the handle is *parallel* with the valve body the valve is fully open, but when the handle is pivoted 90° to be *perpendicular* to the valve body the valve is closed.

The Ball Valve design is reliable, durable, and performs well after many system cycles. This durable design, the quick open/close capability, and the variable adjustment make it an excellent choice for shut-off and control applications. Pressure Connections does not recommend using a Ball Valve as a flow control device, however.

**Mini Ball Valves** operate just like their big sibling ball valves with a quarter-turn pivoting ball, which is enclosed inside of a miniature housing to control the flow. They just do it without taking up as much space.

## Standard vs. Full Port

**Standard Port** Ball Valves, also known as Reduced Port Ball Valves, have a compact ball compared to a full port ball valve, and therefore a smaller orifice that is one pipe size smaller than the threads on the ball valve itself.

**Full Port** Ball Valves have an oversized ball with a larger orifice than a standard ball valve. This orifice is the same size as the pipeline that is threaded to the ball valve, resulting in better flow with a lower friction loss.



## Features

- Handle Position Indicates Valve Status
- Reliable / Durable Ball Design
- Quarter-Turn 90° Rotation
- Quick Open/Close Design
- Low Profile Handle
- Positive Shut-Off

## Options

Locking Handles, T-Handles, Seal Compounds, High Pressure, High Temperature, etc.



# Brass Ball Valves

## BV-30102F

### Features:

- Suitable for Water, Oil, and Gas
- Saturated Steam 150 PSI
- Each Valve Individually Tested
- 1/4 Turn Open/Close Operation
- Low Operating Torque

- Full Port - Minimal Pressure Drop
- Bi-Flow Capability
- Forged Brass Body
- Chromium Plated Brass Ball
- Bottom Loaded, Blow-Out Proof Stem
- Adjustable Stem Packing Gland

- Virgin PTFE Stem Packing Seal, Thrust Washer, and Seats
- Insulated Steel Handle
- Locking and Tee Handles Available
- NPT Pipe Threads

### MP x FP - Full Port - Brass



Part No.	Male Pipe	Female Pipe	WOG	Body Length	Handle Height	Handle Length	Drill Dia.	Assembly
BV-30102F-04	1/4 - 18	1/4 - 18	600 PSI	2.02	1.69	2.76	0.32	0.46
BV-30102F-06	3/8 - 18	3/8 - 18	600 PSI	2.09	1.73	3.54	0.39	0.46
BV-30102F-08	1/2 - 14	1/2 - 14	600 PSI	2.34	1.94	3.54	0.58	0.52
BV-30102F-12	3/4 - 14	3/4 - 14	600 PSI	2.62	2.11	3.78	0.75	0.56
BV-30102F-16	1 - 11 1/2	1 - 11 1/2	600 PSI	3.00	2.58	4.53	0.95	0.63
BV-30102F-20	1 1/4 - 11 1/2	1 1/4 - 11 1/2	600 PSI	3.56	2.95	4.53	1.26	0.71
BV-30102F-24	1 1/2 - 11 1/2	1 1/2 - 11 1/2	600 PSI	3.97	3.35	5.51	1.58	0.72
BV-30102F-32	2 - 11 1/2	2 - 11 1/2	600 PSI	4.50	3.68	5.51	1.97	0.75

### Applications

Our **BV-30102F Ball Valve** is suitable for water, oil, gas, and steam and each valve is individually leak tested for reliability and superior performance. It is a durable design with a forged brass body and an insulated steel handle that opens and closes the valve with a 90° quarter turn operation. This valve has a blow-out proof stem and a full port, chromium plated brass ball that provides maximum flow with minimal pressure drop and can flow in both directions.

**Full Port** Ball Valves have an oversized ball with a larger orifice than a standard ball valve. This orifice is the same size as the pipeline that is threaded to the ball valve, resulting in better flow with a lower friction loss.

### Approvals

- Gas Approvals: UL842, UL258, UL125, FM, CSA AGA 3.88 5 PSIG
- Thread Ends to ANSI B1.20.1

### Temperature

-20° to +248° F (-40° to +120° C)

### Notice

- NOT Lead-Free Compliant
- Made in China

### Other Ball Valves

Steel.....	13-16
Stainless.....	17-19
Mini.....	20-23

# BV-30202F

## Features:

- Suitable for Water, Oil, and Gas
- 1/4 Turn Open/Close Operation

- Bi-Flow Capability
- Forged Brass Body
- Chromium Plated Brass Ball
- Standard (Reduced) Port

- Teflon® O-Rings, Stem Spacers, and Ball Seats
- Steel Insulated Handle

## FP x FP - Standard Port - Brass



Part No.	Female Pipe	Female Pipe	WOG	Body Length	Handle Height	Handle Length	Drill Dia.
BV-30202F-04	1/4 - 18	1/4 - 18	600 PSI				
BV-30202F-06	3/8 - 18	3/8 - 18	600 PSI	1.71	0.86	1.85	0.39
BV-30202F-08	1/2 - 14	1/2 - 14	600 PSI	2.09	1.04	2.05	0.55
BV-30202F-12	3/4 - 14	3/4 - 14	600 PSI	2.36	1.18	2.05	0.75
BV-30202F-16	1 - 11 1/2	1 - 11 1/2	600 PSI	2.87	1.44	2.28	0.94
BV-30202F-20	1 1/4 - 11 1/2	1 1/4 - 11 1/2	600 PSI	3.41	1.70	2.99	1.22
BV-30202F-24	1 1/2 - 11 1/2	1 1/2 - 11 1/2	600 PSI	4.00	2.00	3.15	1.50
BV-30202F-32	2 - 11 1/2	2 - 11 1/2	600 PSI	4.25	2.13	3.54	1.93
BV-30202F-40	2 1/2 - 8	2 1/2 - 8	400 PSI	5.51	2.76	4.82	2.52
BV-30202F-48	3 - 8	3 - 8	400 PSI	6.38	3.19	5.24	3.11
BV-30202F-64	4 - 8	4 - 8	400 PSI	7.44	3.72	6.14	3.90

## Applications:

Our **BV-30202F Ball Valve** is suitable for water, oil, and gas. It is a durable forged brass body design with an insulated steel handle that opens and closes the valve with a 90° quarter turn operation. This valve has a Full port, chromium plated brass ball that provides maximum flow with minimal pressure drop in both directions. It also features Teflon® O-Rings, Stem Spacer, and Ball Seats.

**Full Port Ball Valves** have an oversized ball with a larger orifice than a standard ball valve. This orifice is the same size as the pipeline that is threaded to the ball valve, resulting in better flow with a lower friction loss.

## Notice:

- NOT Lead-Free Compliant

## Other Ball Valves

- |                |       |
|----------------|-------|
| Steel.....     | 13-16 |
| Stainless..... | 17-19 |
| Mini.....      | 20-23 |

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## BV-30202F-T

### Features:

- Suitable for Water, Oil, and Gas
- Saturated Steam: 150 PSI
- Each Valve Individually Tested
- 1/4 Turn Open/Close Operation
- Full Port - Minimal Pressure Drop
- Forged Brass Body
- Chromium Plated Brass Ball
- Bottom Loaded, Blow-Out Proof Stem
- Virgin PTFE Stem Packing Seal, Thrust Washer, and Seats
- Adjustable Stem Packing Gland
- Tee Handle - Low Operating Torque
- Deep NPT Pipe Threads

### FP x FP - Full Port - T-Handle - Brass



Part No.	Female Pipe	Female Pipe	WOG	Body Length	Handle Height	Handle Length	Drill Dia.	Assembly
BV-30202F-T-04	1/4 - 18	1/4 - 18	600 PSI	1.68	1.49	1.83	0.32	0.46
BV-30202F-T-06	3/8 - 18	3/8 - 18	600 PSI	1.76	1.49	1.83	0.39	0.46
BV-30202F-T-08	1/2 - 14	1/2 - 14	600 PSI	2.05	1.76	2.39	0.58	0.52
BV-30202F-T-12	3/4 - 14	3/4 - 14	600 PSI	2.36	1.92	2.39	0.75	0.56

### Applications:

Our **BV-30202F-T Ball Valve** is suitable for water, oil, gas, and steam and each valve is individually leak tested for reliability and superior performance. It is a durable design with a forged brass body and a tee handle that easily opens and closes the valve with a 90° quarter turn operation. This valve has a blow-out proof stem and a full port, chromium plated brass ball that provides maximum flow with minimal pressure drop.

**Full Port Ball Valves** have an oversized ball with a larger orifice than a standard ball valve. This orifice is the same size as the pipeline that is threaded to the ball valve, resulting in better flow with a lower friction loss.

### Approvals:

- Gas Approvals: UL842, UL258, UL125, FM, CSA 5 PSIG (1/2" – 3/4" Sizes Only)
- Thread Ends to ANSI B1.20.1

### Temperature:

-22° to +302° F (-30° to +150° C)

### Notice:

- NOT Lead-Free Compliant
- Made in China

Other Ball Valves
Steel.....13-16
Stainless.....17-19
Mini.....20-23

# BV-30202F-LH

## Features:

- Suitable for Water, Oil, and Gas
- Saturated Steam 150 PSI
- Each Valve Individually Tested
- 1/4 Turn Open/Close Operation
- Low Operating Torque
- Full Port - Minimal Pressure Drop
- Forged Brass Body
- Chromium Plated Brass Ball
- Bottom Loaded, Blow-Out Proof Stem
- Virgin PTFE Stem Packing Seal, Thrust Washer, and Seats
- Adjustable Stem Packing Gland
- Insulated Steel Locking Handle
- Deep NPTF Pipe Threads

## FP x FP - Full Port - Locking Handle - Brass



Part No.	Female Pipe	Female Pipe	WOG	Body Length	Handle Height	Handle Length	Drill Dia.	Assembly
BV-30202F-LH-04	1/4 - 18	1/4 - 18	600 PSI	1.73	1.84	3.15	0.49	0.71
BV-30202F-LH-06	3/8 - 18	3/8 - 18	600 PSI	1.81	1.88	3.86	0.49	0.79
BV-30202F-LH-08	1/2 - 14	1/2 - 14	600 PSI	2.23	2.09	3.86	0.61	0.98
BV-30202F-LH-12	3/4 - 14	3/4 - 14	600 PSI	2.48	2.24	4.06	0.62	1.20
BV-30202F-LH-16	1 - 11 1/2	1 - 11 1/2	600 PSI	2.95	2.67	4.73	0.73	1.50
BV-30202F-LH-20	1 1/4 - 11 1/2	1 1/4 - 11 1/2	600 PSI	3.42	3.05	4.73	0.77	1.81
BV-30202F-LH-24	1 1/2 - 11 1/2	1 1/2 - 11 1/2	600 PSI	3.78	3.51	5.71	0.78	2.09
BV-30202F-LH-32	2 - 11 1/2	2 - 11 1/2	600 PSI	4.18	3.84	5.71	0.75	2.60

## Applications

Our **BV-30202F-LH Ball Valve** is suitable for water, oil, gas, and steam and each valve is individually leak tested for reliability and superior performance. It is a durable design with a forged brass body and an insulated steel locking handle that opens and closes with a 90° quarter turn operation. This valve has a blow-out proof stem and a full port, chromium plated brass ball that provides maximum flow with minimal pressure drop.

**Full Port Ball Valves** have an oversized ball with a larger orifice than a standard ball valve. This orifice is the same size as the pipeline that is threaded to the ball valve, resulting in better flow with a lower friction loss.

## Approvals

- Gas Approvals: UL842, UL258, UL125, FM, CSA 5 PSIG (1/2" – 2" Sizes Only)
- Thread Ends to ANSI B1.20.1

## Temperature

-22° to +302° F (-30° to +150° C)

## Notice

- NOT Lead-Free Compliant
- Made in China

## Other Ball Valves

- |                |       |
|----------------|-------|
| Steel.....     | 13-16 |
| Stainless..... | 17-19 |
| Mini.....      | 20-23 |

# Brass Ball Valves

## BV-3020202F-3W

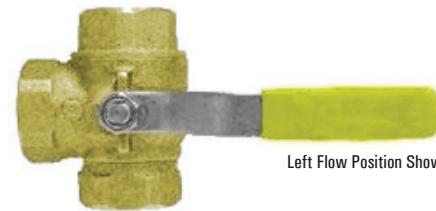
### Features:

- 1/4 Turn Handle Operation
- **3-Way Handle Position:**  
(Left, Left/Right, Right Flow)
- Suitable for Water, Oil, and Gas

- Full Port - Minimal Pressure Drop
- Forged Brass Body
- Blow-Out Proof Stem
- PTFE Seal and Seats
- Double O-Ring Stem Packing

- Insulated Steel Handle
- Side Outlet
- Bottom Outlet Available

### FP x FP x FP - Full Port - 3-Way - Brass



Left Flow Position Shown

Part No.	Female Pipe	Female Pipe	WOG	Body Length	Handle Height	Handle Length	Drill Dia.	Assembly
BV-3020202F-3W-04	1/4 - 18	1/4 - 18	600 PSI	1.89	1.73	3.35	0.39	0.47
BV-3020202F-3W-06	3/8 - 18	3/8 - 18	600 PSI	1.89	1.73	3.35	0.39	0.47
BV-3020202F-3W-08	1/2 - 14	1/2 - 14	600 PSI	2.11	1.80	3.35	0.50	0.51
BV-3020202F-3W-12	3/4 - 14	3/4 - 14	600 PSI	2.56	2.16	4.41	0.74	0.55

### Applications

Our **BV-3020202F-3W Ball Valve** is a 3-way valve that is suitable for water, oil, and gas. This valve has a blow-out proof stem and a full port ball that provides maximum flow with minimal pressure drop. It is a durable design with a forged brass body and an insulated steel handle that redirects the flow path with a 90° quarter turn operation.

**Full Port Ball Valves** have an oversized ball with a larger orifice than a standard ball valve. This orifice is the same size as the pipeline that is threaded to the ball valve, resulting in better flow with a lower friction loss.

### Temperature

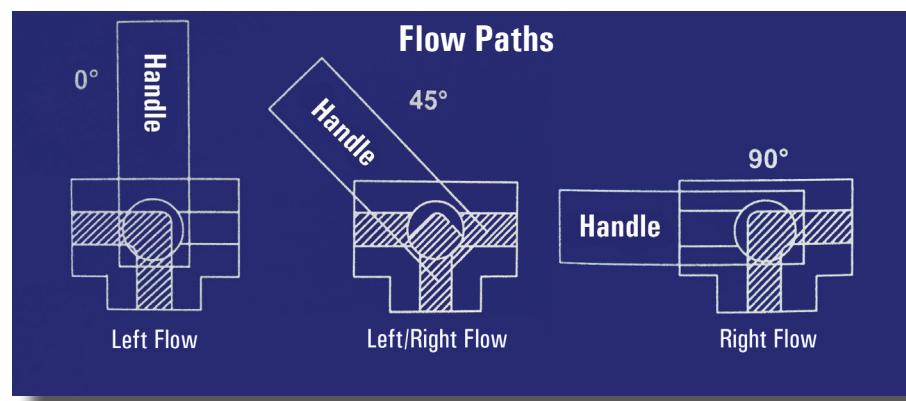
-0° to +230° F (-18° to +110° C)

### Notice

- NOT Lead-Free Compliant

### Other Ball Valves

- Steel.....13-16
- Stainless.....17-19
- Mini.....20-23



# BV-50202F • BV-50202R

## Features:

- High Pressure Hydraulic
- 1/4 Turn Open/Close Operation
- Steel Lever Ball Handle
- Rugged Steel Body

- Full Port - Minimal Pressure Drop
- Standard (Reduced) Port (1-1/4 – 1-1/2)
- Blow-Out Proof Stem
- Chrome Plated Steel Ball
- Buna-N Seals

- NPT Pipe Threads
- Mounting Holes
- Temperature  
-0° to +215° F (-18° to +102° C)

## FP x FP - Full and Standard Ports - Steel



Full Port Part No.	Female Pipe	Female Pipe	WOG	Body Length	Handle Length	Mt. Hole Dia.	Mt. Hole Spacing
BV-50202F-04	1/4 - 18	1/4 - 18	7,250 PSI	2.71	4.51	0.18	1.03
BV-50202F-06	3/8 - 18	3/8 - 18	7,250 PSI	2.84	4.51	0.26	1.24
BV-50202F-08	1/2 - 14	1/2 - 14	7,250 PSI	3.27	4.51	0.26	1.46
BV-50202F-12	3/4 - 14	3/4 - 14	5,800 PSI	3.74	6.38	0.26	1.76
BV-50202F-16	1 - 11 1/2	1 - 11 1/2	5,000 PSI	4.45	6.38	0.26	2.17
BV-50202F-20	1 1/4 - 11 1/2	1 1/4 - 11 1/2	5,000 PSI	4.72	9.00	-	-
BV-50202F-24	1 1/2 - 11 1/2	1 1/2 - 11 1/2	5,000 PSI	5.13	9.00	-	-
BV-50202F-32	2 - 11 1/2	2 - 11 1/2	5,000 PSI	5.52	9.00	-	-

Standard Port Part No.	Female Pipe	Female Pipe	WOG	Body Length	Handle Length	Mt. Hole Dia.	Mt. Hole Spacing
BV-50202R-20	1 1/4 - 11 1/2	1 1/4 - 11 1/2	5,000 PSI	4.72	9.00	0.26	2.18
BV-50202R-24	1 1/2 - 11 1/2	1 1/2 - 11 1/2	5,000 PSI	5.13	9.00	0.26	2.18

## Applications

Our **BV-50202F** and **BV-50202R** Ball Valves are high pressure hydraulic valves with Female NPT Pipe Threads. These valves are designed to be durable with a rugged steel body and a steel lever ball handle that opens and closes the valve with a 90° quarter turn operation. These valves also feature a blow-out proof stem, Buna-N seals, and mounting holes to secure it in place.

**Full Port** Ball Valves have an oversized ball with a larger orifice than a standard ball valve. This orifice is the same size as the pipeline that is threaded to the ball valve, resulting in better flow with a lower friction loss.

**Standard Port** Ball Valves, also known as Reduced Port Ball Valves, have a compact ball compared to a full port ball valve, and therefore a smaller orifice that is one pipe size smaller than the threads on the ball valve itself.

## Notice

- Stainless Steel Ball Valves are on Pages 17-19

## BV-5020202F • BV-5020202R

### Features:

- High Pressure Hydraulic
- L-Flow Path: (Left or Right Flow)
- 1/4 Turn Open/Close Operation
- Rugged Steel Body

- Full Port - Minimal Pressure Drop
- Standard (Reduced) Port (1-1/4 – 1-1/2)
- Blow-Out Proof Stem
- Chrome Plated Steel Ball
- Buna-N Seals

- NPT Pipe Threads
- Steel Lever Ball Handle
- Mounting Holes
- Temperature  
-0° to +215° F (-18° to +102° C)

### FP x FP x FP - Full and Standard Ports - 3-Way - Steel



Full Port Part No.	Female Pipe	Female Pipe	WOG	Body Length	Handle Length	Mt. Hole Dia.	Mt. Hole Spacing
BV-5020202F-04	1/4 - 18	1/4 - 18	5,880 PSI	2.72	4.51	0.18	1.02
BV-5020202F-06	3/8 - 18	3/8 - 18	5,880 PSI	2.84	4.51	0.26	1.23
BV-5020202F-08	1/2 - 14	1/2 - 14	5,145 PSI	2.28	4.51	0.26	1.46
BV-5020202F-12	3/4 - 14	3/4 - 14	5,145 PSI	3.74	6.38	0.26	1.77
BV-5020202F-16	1 - 11 1/2	1 - 11 1/2	5,145 PSI	4.45	6.38	0.26	2.17
BV-5020202F-20	1 1/4 - 11 1/2	1 1/4 - 11 1/2	4,500 PSI	4.73	9.00	-	-
BV-5020202F-24	1 1/2 - 11 1/2	1 1/2 - 11 1/2	4,500 PSI	5.14	9.00	-	-
BV-5020202F-32	2 - 11 1/2	2 - 11 1/2	4,500 PSI	5.51	9.00	-	-

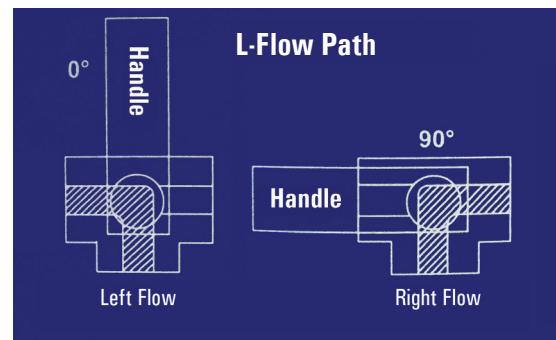
Standard Port Part No.	Female Pipe	Female Pipe	WOG	Body Length	Handle Length	Mt. Hole Dia.	Mt. Hole Spacing
BV-5020202R-20	1 1/4 - 11 1/2	1 1/4 - 11 1/2	4,500 PSI	4.72	6.38	0.26	2.17
BV-5020202R-24	1 1/2 - 11 1/2	1 1/2 - 11 1/2	4,500 PSI	4.84	6.38	0.26	2.17

### Applications

Our **BV-5020202F** and **BV-5020202R** Ball Valves are 3-way high pressure hydraulic valves with Female NPT Pipe Threads. These valves are designed to be durable with a rugged steel body, a steel lever ball handle, a blow-out proof stem, and mounting holes to secure it in place. This 3-Way ball valve design features an **L-Flow Path** chrome plated steel ball that directs the fluid to the left outlet or the right outlet depending on the handle position.

**Full Port Ball Valves** have an oversized ball with a larger orifice than a standard ball valve. This orifice is the same size as the pipeline that is threaded to the ball valve, resulting in better flow with a lower friction loss.

**Standard Port Ball Valves**, also known as Reduced Port Ball Valves, have a compact ball compared to a full port ball valve, and therefore a smaller orifice that is one pipe size smaller than the threads on the ball valve itself.



# BV-51010F • BV-51010R

## Features:

- High Pressure Hydraulic
- 1/4 Turn Open/Close Operation
- Steel Lever Ball Handle
- Rugged Steel Body

- Full Port - Minimal Pressure Drop
- Standard (Reduced) Port (1-1/4 – 1-1/2)
- Blow-Out Proof Stem
- Chrome Plated Steel Ball
- Buna-N Seals

- O-Ring Boss Threads
- Mounting Holes
- Temperature  
-0° to +215° F (-18° to +102° C)



## FB x FB - Full and Standard Ports - Steel

Full Port Part No.	Female ORB	Female ORB	WOG	Body Length	Handle Length	Mt. Hole Dia.	Mt. Hole Spacing
BV-51010F-04	7/16 - 20	7/16 - 20	7,250 PSI	2.71	4.51	0.18	1.03
BV-51010F-06	9/16 - 18	9/16 - 18	7,250 PSI	2.84	4.51	0.26	1.24
BV-51010F-08	3/4 - 16	3/4 - 16	7,250 PSI	3.27	4.51	0.26	1.46
BV-51010F-12	1 1/16 - 12	1 1/16 - 12	5,800 PSI	3.74	6.38	0.26	1.75
BV-51010F-16	1 5/16 - 12	1 5/16 - 12	5,000 PSI	4.45	6.38	0.26	2.17
BV-51010F-20	1 5/8 - 12	1 5/8 - 12	5,000 PSI	4.72	9.00	-	-
BV-51010F-24	1 7/8 - 12	1 7/8 - 12	5,000 PSI	5.13	9.00	-	-
BV-51010F-32	2 1/2 - 12	2 1/2 - 12	5,000 PSI	5.52	9.00	-	-

Standard Port Part No.	Female ORB	Female ORB	WOG	Body Length	Handle Length	Mt. Hole Dia.	Mt. Hole Spacing
BV-51010R-20	1 5/8 - 12	1 5/8 - 12	5,000 PSI	4.73	6.38	0.26	2.17
BV-51010R-24	1 7/8 - 12	1 7/8 - 12	5,000 PSI	4.85	6.38	0.26	2.17

## Applications

Our **BV-51010F** and **BV-51010R** Ball Valves are high pressure hydraulic valves with Female O-Ring Boss Threads. These valves are designed to be durable with a rugged steel body and a steel lever ball handle that opens and closes the valve with a 90° quarter turn operation. These valves also feature a blow-out proof stem, Buna-N seals, and mounting holes to secure it in place.

**Full Port Ball Valves** with O-Ring Boss Threads have the same oversized ball as their pipe threaded counterpart, resulting in better flow with a lower friction loss.

**Standard Port Ball Valves**, also known as Reduced Port Ball Valves, with O-Ring Boss Threads have the same compact ball and therefore a smaller orifice just like their pipe threaded counterpart.

## BV-5101010F • BV-5101010R

### Features:

- High Pressure Hydraulic
- L-Flow Path: (Left or Right Flow)
- 1/4 Turn Open/Close Operation
- Rugged Steel Body

- Full Port - Minimal Pressure Drop
- Standard (Reduced) Port (1-1/4 – 1-1/2)
- Blow-Out Proof Stem
- Chrome Plated Steel Ball
- Buna-N Seals

- O-Ring Boss Threads
- Steel Lever Ball Handle
- Mounting Holes
- Temperature  
-0° to +215° F (-18° to +102° C)

### FB x FB x FB - Full and Standard Ports - 3-Way - Steel



Full Port Part No.	Female ORB	Female ORB	WOG	Body Length	Handle Length	Mt. Hole Dia.	Mt. Hole Spacing
BV-5101010F-04	7/16 - 20	7/16 - 20	5,880 PSI	2.72	4.51	0.18	1.02
BV-5101010F-06	9/16 - 18	9/16 - 18	5,880 PSI	2.84	4.51	0.26	1.23
BV-5101010F-08	3/4 - 16	3/4 - 16	5,145 PSI	2.28	4.51	0.26	1.46
BV-5101010F-12	1 1/16 - 12	1 1/16 - 12	5,145 PSI	3.74	6.38	0.26	1.77
BV-5101010F-16	1 5/16 - 12	1 5/16 - 12	5,145 PSI	4.45	6.38	0.26	2.17
BV-5101010F-20	1 5/8 - 12	1 5/8 - 12	4,500 PSI	4.73	9.00	-	-
BV-5101010F-24	1 7/8 - 12	1 7/8 - 12	4,500 PSI	5.14	9.00	-	-
BV-5101010F-32	2 1/2 - 12	2 1/2 - 12	4,500 PSI	5.51	9.00	-	-

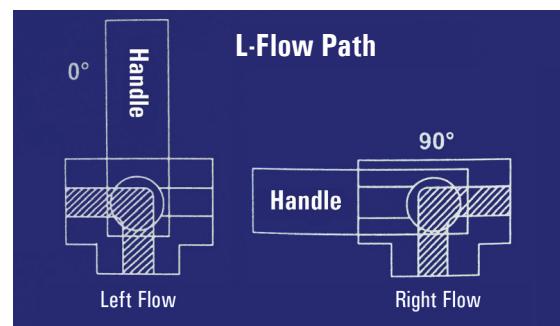
Standard Port Part No.	Female ORB	Female ORB	WOG	Body Length	Handle Length	Mt. Hole Dia.	Mt. Hole Spacing
BV-5101010R-20	1 5/8 - 12	1 5/8 - 12	4,500 PSI	4.72	6.38	0.26	2.17
BV-5101010R-24	1 7/8 - 12	1 7/8 - 12	4,500 PSI	4.84	6.38	0.26	2.17

### Applications

Our **BV-5101010F** and **BV-5101010R** Ball Valves are 3-way high pressure hydraulic valves with Female O-Ring Boss Threads. These valves are designed to be durable with a rugged steel body, a steel lever ball handle, a blow-out proof stem, and mounting holes to secure it in place. This 3-Way ball valve design features an **L-Flow Path** chrome plated steel ball that directs the fluid to the left outlet or the right outlet depending on the handle position.

**Full Port Ball Valves with O-Ring Boss Threads** have the same oversized ball as their pipe threaded counterpart, resulting in better flow with a lower friction loss.

**Standard Port Ball Valves**, also known as **Reduced Port Ball Valves**, with O-Ring Boss Threads have the same compact ball and therefore a smaller orifice just like their pipe threaded counterpart.



# BV-60102R-LH

## Features:

- Suitable for Water, Oil, and Gas
- Saturated Steam 150 PSI
- Each Valve Individually Tested
- 1/4 Turn Open/Close Operation
- Standard (Reduced) Port

- CF8M (316 Equiv.) Stainless Body & Ball
- 316 Stainless Stem and Packing Gland
- RPTFE Packings
- Hostaflon® TFM 1600 Body Seal, Stem Seal, and Seats
- Insulated Stainless Locking Handle

- NPT Pipe Threads
- 304 Stainless Steel Handle, Nut, and Lock Washer
- 29 in-Hg Vacuum Rating
- Lead-Free 0.25% Wetted Surfaces

## MP x FP - Standard Port - Stainless 316



Part No.	Male Pipe	Female Pipe	WOG	Body Length	Handle Height	Handle Length	Drill Dia.
BV-60102R-LH-06	3/8 - 18	3/8 - 18	2,000 PSI	2.44	1.75	4.06	0.38
BV-60102R-LH-08	1/2 - 14	1/2 - 14	2,000 PSI	2.89	1.94	4.06	0.49
BV-60102R-LH-12	3/4 - 14	3/4 - 14	2,000 PSI	3.26	2.21	4.06	0.59
BV-60102R-LH-16	1 - 11 1/2	1 - 11 1/2	2,000 PSI	3.62	2.49	4.29	0.79

## Applications

Our **BV-60102R-LH Ball Valve** is suitable for water, oil, gas, and steam. It is a durable 316 stainless steel body design with an insulated locking handle that opens and closes the valve with a 90° quarter turn operation. This valve has a Standard port, CF8M (316 equivalent) stainless steel ball, a 316 stainless steel stem, and a 316 stainless steel packing gland for superior corrosion resistance.

**Standard Port Ball Valves**, also known as Reduced Port Ball Valves, have a compact ball compared to a full port ball valve, and therefore a smaller orifice that is one pipe size smaller than the threads on the ball valve itself.

## Approvals

- API 598, MSS SP-110, NACE Certified
- Thread Ends to ANSI B1.20.1

## Temperature

-20° to +450° F (-28° to +232° C)

Hostaflon® is a Hoechst Celanese Registered Trademark.

## **BV-60202R-LH**

### **Features:**

- Suitable for Water, Oil, and Gas
- Saturated Steam 100 PSI
- 1/4 Turn Open/Close Operation
- Standard (Reduced) Port
- 316 Stainless Body, Ball, and Stem
- Blow-Out Proof Stem
- R-PTFE Joint Gasket, Thrust Washer, and Seats

- Insulated Locking Handle
- NPT Pipe Threads

### **FP x FP - Standard Port - Stainless 316**



Part No.	Female Pipe	Female Pipe	WOG	Body Length	Handle Height	Handle Length	Drill Dia.
BV-60202R-LH-04	1/4 - 18	1/4 - 18	800 PSI	1.57	1.32	2.76	0.20
BV-60202R-LH-06	3/8 - 18	3/8 - 18	800 PSI	1.77	1.38	2.76	0.28
BV-60202R-LH-08	1/2 - 14	1/2 - 14	800 PSI	2.17	1.54	3.15	0.35
BV-60202R-LH-12	3/4 - 14	3/4 - 14	800 PSI	2.36	1.93	3.74	0.45
BV-60202R-LH-16	1 - 11 1/2	1 - 11 1/2	800 PSI	2.76	2.13	4.13	0.59
BV-60202R-LH-20	1 1/4 - 11 1/2	1 1/4 - 11 1/2	800 PSI	3.15	2.58	4.72	0.77
BV-60202R-LH-24	1 1/2 - 11 1/2	1 1/2 - 11 1/2	800 PSI	3.39	2.83	5.51	0.98
BV-60202R-LH-32	2 - 11 1/2	2 - 11 1/2	800 PSI	3.98	3.19	5.91	1.26

### **Applications**

Our **BV-60202R-LH Ball Valve** is suitable for water, oil, gas, and steam. It is a durable 316 stainless steel body design with an insulated locking handle that opens and closes the valve with a 90° quarter turn operation. This valve has a Standard port, 316 stainless steel ball, and a 316 stainless steel stem for superior corrosion resistance.

**Standard Port Ball Valves**, also known as Reduced Port Ball Valves, have a compact ball compared to a full port ball valve, and therefore a smaller orifice that is one pipe size smaller than the threads on the ball valve itself.

### **Temperature**

-20° to +450° F (-28° to +232° C)

# BV-60202F-LH

## Features:

- Suitable for Water, Oil, and Gas
- Saturated Steam 150 PSI
- Each Valve Individually Tested
- 1/4 Turn Open/Close Operation
- Full Port - Minimal Pressure Drop

- CF8M (316 equiv.) Stainless Body & Ball
- 316 Stainless Steel Stem and Packing Gland
- RPTFE Packings
- Hostaflon® TFM 1600 Body Seal, Stem Seal, and Seats
- Insulated Stainless Locking Handle

- NPT Pipe Threads
- 304 Stainless Steel Handle, Nut, and Lock Washer
- 29 in-Hg Vacuum Rating
- Lead-Free 0.25% Wetted Surfaces

## FP x FP - Full Port - Stainless 316



Part No.	Female Pipe	Female Pipe	WOG	Body Length	Handle Height	Handle Length	Drill Dia.
BV-60202F-LH-04	1/4 - 18	1/4 - 18	1,000 PSI	2.20	2.20	4.21	0.43
BV-60202F-LH-06	3/8 - 18	3/8 - 18	1,000 PSI	2.20	2.20	4.21	0.43
BV-60202F-LH-08	1/2 - 14	1/2 - 14	1,000 PSI	2.60	2.30	4.21	0.56
BV-60202F-LH-12	3/4 - 14	3/4 - 14	1,000 PSI	2.99	2.79	5.73	0.81
BV-60202F-LH-16	1 - 11 1/2	1 - 11 1/2	1,000 PSI	3.54	2.96	5.73	1.00
BV-60202F-LH-20	1 1/4 - 11 1/2	1 1/4 - 11 1/2	1,000 PSI	3.94	3.56	7.45	1.25
BV-60202F-LH-24	1 1/2 - 11 1/2	1 1/2 - 11 1/2	1,000 PSI	4.41	3.84	7.45	1.50
BV-60202F-LH-32	2 - 11 1/2	2 - 11 1/2	1,000 PSI	5.00	4.24	8.08	1.97

## Applications

Our BV-60202F-LH Ball Valve is suitable for water, oil, gas, and steam. It is a durable CF8M (316 equivalent) stainless steel body design with an insulated stainless steel locking handle that opens and closes the valve with a 90° quarter turn operation. This valve has a Full port, CF8M stainless steel ball, a 316 stainless steel stem, and a 316 stainless steel packing gland for superior corrosion resistance.

**Full Port Ball Valves** have an oversized ball with a larger orifice than a standard ball valve. This orifice is the same size as the pipeline that is threaded to the ball valve, resulting in better flow with a lower friction loss.

## Approvals

- Conforms to API 598
- MSS SP-110, SP-61, SP-82
- NACE Certified
- Thread Ends to ANSI B1.20.1
- **UL Listed:**
  - MHKZ - Manual Valves
  - YQNZ - Compressed Gas Shut-Off Valves
  - YRBX - Flammable Liquid Shut-Off Valves
  - YRPV - Gas Shut-Off Valves
  - YSDT - LP Gas Shut-Off Valves

## Temperature

-20° to +450° F (-28° to +232° C)

# Mini Ball Valves

## Nickel Plated Brass

### Features:

- Suitable for Air, Water, Oil, and Gas
- Good for Vacuum Service
- 1/4 Turn Open/Close Operation
- Chrome Plated Brass Body
- Chrome Plated Brass Ball
- Nickel Plated Brass Stem
- Composite Handle
- NPTF Thread Ends
- Teflon® Ball Retainer Seal
- Buna-N Stem Seals

- NOT Lead-Free Compliant
- Temperature  
-0° to +175° F (-18° to +80° C)

### MBV-30102N

MP x FP - Nickel Plated Brass



Part No.	Male Pipe	Female Pipe	Pressure	Body Length	Handle Height	Handle Length	Drill Dia.	Assembly	Body Hex
MBV-30102N-02	1/8 - 27	1/8 - 27	290 PSI	1.48	0.83	0.75	0.22	0.34	0.55
MBV-30102N-04	1/4 - 18	1/4 - 18	290 PSI	1.81	0.83	0.75	0.22	0.51	0.55
MBV-30102N-06	3/8 - 18	3/8 - 18	290 PSI	1.91	0.87	0.75	0.32	0.51	0.71
MBV-30102N-08	1/2 - 14	1/2 - 14	290 PSI	2.44	1.20	1.02	0.39	0.67	0.87

### MBV-30202N

FP x FP - Nickel Plated Brass



Part No.	Female Pipe	Female Pipe	Pressure	Body Length	Handle Height	Handle Length	Drill Dia.	Body Hex
MBV-30202N-02	1/8 - 27	1/8 - 27	290 PSI	1.48	0.83	0.75	0.22	0.55
MBV-30202N-04	1/4 - 18	1/4 - 18	290 PSI	1.81	0.83	0.75	0.22	0.55
MBV-30202N-06	3/8 - 18	3/8 - 18	290 PSI	1.91	0.87	0.75	0.32	0.71
MBV-30202N-08	1/2 - 14	1/2 - 14	290 PSI	2.44	1.20	1.02	0.39	0.87

### MBV-3020290N

FP x FP 90° - Nickel Plated Brass



Part No.	Female Pipe	Female Pipe	Pressure	Body Length	Body Height	Handle Height	Handle Length	Drill Dia.	Body Hex	Stem Hex
MBV-3020290N-02	1/8 - 27	1/8 - 27	290 PSI	1.48	0.65	1.32	0.75	0.22	0.67	0.67
MBV-3020290N-04	1/4 - 18	1/4 - 18	290 PSI	1.48	0.65	1.32	0.75	0.22	0.67	0.67
MBV-3020290N-06	3/8 - 18	3/8 - 18	290 PSI	1.54	0.87	1.38	0.75	0.28	0.83	0.67



## **MBV-3020202N-CC**

FP x FP x FP - Closed Center

Part No.	Female Pipe	Female Pipe	Pressure	Body Length	Body Height	Handle Height	Handle Length	Drill Dia.	Body Hex	Stem Hex
MBV-3020202N-CC-02	1/8 - 27	1/8 - 27	290 PSI	1.48	0.65	1.32	0.75	0.22	0.67	0.67
MBV-3020202N-CC-04	1/4 - 18	1/4 - 18	290 PSI	1.48	0.65	1.32	0.75	0.22	0.67	0.67
MBV-3020202N-CC-06	3/8 - 18	3/8 - 18	290 PSI	1.91	0.87	1.38	0.75	0.28	0.83	0.67

## **MBV-3020202N-OC**

FP x FP x FP - Open Center



Part No.	Female Pipe	Female Pipe	Pressure	Body Length	Body Height	Handle Height	Handle Length	Drill Dia.	Body Hex	Stem Hex
MBV-3020202N-OC-02	1/8 - 27	1/8 - 27	290 PSI	1.48	0.65	1.32	0.75	0.22	0.67	0.67
MBV-3020202N-OC-04	1/4 - 18	1/4 - 18	290 PSI	1.48	0.65	1.32	0.75	0.22	0.67	0.67
MBV-3020202N-OC-06	3/8 - 18	3/8 - 18	290 PSI	1.91	0.87	1.38	0.75	0.28	0.83	0.67

## **MBV-30116N**

MP x PTC - Nickel Plated Brass



Part No.	Male Pipe	Push-To-Connect	Pressure	Body Length	Handle Height	Handle Length	Assembly	Body Hex
MBV-30116N-02-25	1/8 - 27	5/32" Tube	290 PSI	1.37	0.82	0.74	0.33	0.55
MBV-30116N-02-04	1/8 - 27	1/4" Tube	290 PSI	1.57	0.82	0.74	0.33	0.55
MBV-30116N-04	1/4 - 18	1/4" Tube	290 PSI	1.50	0.82	0.74	0.49	0.55
MBV-30116N-06	3/8 - 18	3/8" Tube	290 PSI	1.76	0.86	0.74	0.51	0.70

## **MBV-31616N**

PTC x PTC - Nickel Plated Brass



Part No.	Push-To-Connect	Push-To-Connect	Pressure	Body Length	Handle Height	Handle Length	Body Hex
MBV-31616N-02	1/8" Tube	1/8" Tube	290 PSI	1.67	0.83	0.75	0.55-0.59
MBV-31616N-04	1/4" Tube	1/4" Tube	290 PSI	1.83	0.83	0.75	0.55-0.59
MBV-31616N-06	3/8" Tube	3/8" Tube	290 PSI	2.38	0.87	0.75	0.71-0.75

# Mini Ball Valves

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## MBV-32132N

Male BSP x Female BSP - Nickel Plated Brass



Part No.	Male BSPT	Female BSPP	Pressure	Body Length	Handle Height	Handle Length	Drill Dia.	Assembly	Body Hex
MBV-32132N-02	1/8 - 28	1/8 - 28	290 PSI	1.42	0.83	0.75	0.22	0.30	0.55
MBV-32132N-04	1/4 - 19	1/4 - 19	290 PSI	1.69	0.83	0.75	0.22	0.43	0.55
MBV-32132N-06	3/8 - 19	3/8 - 19	290 PSI	1.81	0.87	0.75	0.32	0.45	0.71
MBV-32132N-08	1/2 - 14	1/2 - 14	290 PSI	2.24	1.20	1.02	0.39	0.59	0.87

## MBV-33232N

Female BSP x Female BSP - Nickel Plated Brass



Part No.	Female BSPP	Female BSPP	Pressure	Body Length	Handle Height	Handle Length	Drill Dia.	Body Hex
MBV-33232N-02	1/8 - 28	1/8 - 28	290 PSI	1.42	0.83	0.75	0.22	0.55
MBV-33232N-04	1/4 - 19	1/4 - 19	290 PSI	1.69	0.83	0.75	0.22	0.55
MBV-33232N-06	3/8 - 19	3/8 - 19	290 PSI	1.85	0.87	0.75	0.32	0.71
MBV-33232N-08	1/2 - 14	1/2 - 14	290 PSI	2.23	1.20	1.02	0.39	0.87

## MBV-321M16N

BSPT x Metric PTC - Nickel Plated Brass



Part No.	Male BSPT	Push-To-Connect	Pressure	Body Length	Handle Height	Handle Length	Body Hex
MBV-321M16N-02-04	1/8 - 28	4mm Tube	290 PSI	1.38	0.83	0.75	0.55–0.59
MBV-321M16N-02-06	1/8 - 28	6mm Tube	290 PSI	1.57	0.83	0.75	0.55–0.59
MBV-321M16N-02-08	1/4 - 19	6mm Tube	290 PSI	1.63	0.83	0.75	0.55–0.59
MBV-321M16N-04-06	1/8 - 28	8mm Tube	290 PSI	1.52	0.83	0.75	0.55–0.59
MBV-321M16N-04-08	1/4 - 19	8mm Tube	290 PSI	1.79	0.87	0.75	0.55–0.59

## MBV-3M16M16N

Metric PTC x PTC - Nickel Plated Brass



Part No.	Push-To-Connect	Push-To-Connect	Pressure	Body Length	Handle Height	Handle Length	Body Hex
MBV-3M16M16N-04	4mm Tube	4mm Tube	290 PSI	1.73	0.83	0.75	0.55–0.59
MBV-3M16M16N-06	6mm Tube	6mm Tube	290 PSI	1.89	0.83	0.75	0.55–0.59
MBV-3M16M16N-08	8mm Tube	8mm Tube	290 PSI	1.89	0.83	0.75	0.55–0.59

**1,000 PSI Working Pressure****Features:**

- Suitable for Air, Water, Oil, Gas, Propane, and Diesel
- 1/4 Turn Open/Close Operation
- Brass Body
- Nickel Plated Brass Ball
- Non-Adjustable Blow-Out Proof Stem  
Never Needs Tightening
- Highly Inert Teflon® Seats
- Viton® O-Ring Stem Seal
- Metal Handle
- 1,000 PSI Working Pressure

**MBV-30101-1000**

MP x MP - 1000 PSI - Brass



Part No.	Male Pipe	Male Pipe	Pressure
MBV-30101-1000-02	1/8 - 27	1/8 - 27	1,000 PSI
MBV-30101-1000-04	1/4 - 18	1/4 - 18	1,000 PSI

**MBV-30102-1000**

MP x FP - 1000 PSI - Brass



Part No.	Male Pipe	Female Pipe	Pressure
MBV-30102-1000-02	1/8 - 27	1/8 - 27	1,000 PSI
MBV-30102-1000-04	1/4 - 18	1/4 - 18	1,000 PSI

**Applications**

Our **1,000 PSI Mini Ball Valves** are ideal for tight, confined areas, or when routing aesthetics are desired. This miniature ball valve design features a corrosion resistant brass body and a metal handle that opens and closes the valve with a 90° quarter-turn operation. Applications include instrumentation, gas sampling systems, high pressure gauges, test stands, hydraulic and pneumatic service lines. Plus, it is also good for propane, gas, and diesel.

**Approvals**

- Approvals ASTM B-16 Corrosion Resistant Brass

**Temperature**

-40° to +300° F (-40° to +149° C)

**Notice**

- NOT Good for Steam
- NOT Lead-Free Compliant

# **Check Valves**

**Brass • Nickel Plated Brass • Steel**

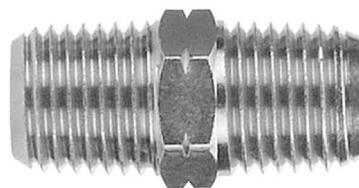
**Check Valves**, also known as Crack Valves, Non-Return Valves, or One-Way Valves, are a type of directional control used in hydraulic systems to *automatically* stop the flow of fluid in one direction while allowing free flow of fluid in the opposite direction.

An important attribute of a Check Valve is the cracking pressure, which is the minimum upstream pressure at which the valve will operate, or crack open. Therefore, a specific cracking pressure is usually specified.

## **Features/Benefits**

Our Check Valves are available with different cracking pressures for a variety of applications.

- Brass: 400 PSI (27 Bar)
- Nickel Plated Brass: 150 PSI (10 Bar)
- Steel: High Pressure Hydraulic
- Prefilling (to Avoid Cavitation)
- Stopping Flow In a Designated Direction
- Pre-Tensioning (by Creating a Certain Backpressure)
- Bypassing (e.g. Throttling Points or Return-Line Filters)
- Protect Hydraulic Components Against Pressure Spikes

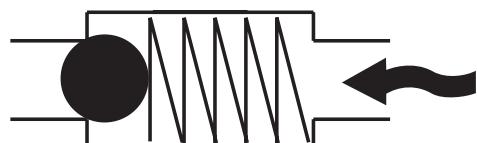


## **1-Way Flow Only**

**Flow is Allowed in One Direction**



**When flow is in opposite direction the valve is checked, or closed, and stops the flow**



## Nickel Plated Brass

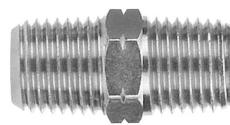
### Features:

- 3 PSI Cracking Pressure
- Nickel Plated Brass Body
- Nickel Plated Brass Piston
- Buna / Viton® Piston Seal
- Steel Spring
- One-Way Flow
- NOT Lead-Free Compliant
- Pressure Range: 3 – 120 PSI

- Temperature  
-0° to +160° F (-18° to +71° C)

### CV-30101N-3

MP x MP - 3 PSI Crack - Nickel Plated Brass



Part No.	Male Pipe	Male Pipe	Pressure	Length	Assembly	Hex
CV-30101N-04-3	1/4 - 18	1/4 - 18	150 PSI	1.22	0.51	0.55
CV-30101N-06-3	3/8 - 18	3/8 - 18	150 PSI	1.22	0.51	0.75

### CV-30202N-3

FP x FP - 3 PSI Crack - Nickel Plated Brass



Part No.	Female Pipe	Female Pipe	Pressure	Length	Hex
CV-30202N-02-3	1/8 - 27	1/8 - 27	150 PSI	1.44	0.51
CV-30202N-04-3	1/4 - 18	1/4 - 18	150 PSI	1.85	0.67

### CV-31616N-3

PTC x PTC - 3 PSI Crack - Nickel Plated Brass



Part No.	Push-To-Connect	Push-To-Connect	Pressure	Length	Diameter
CV-31616N-04-3	1/4" Tube	1/4" Tube	150 PSI	2.05	0.51
CV-31616N-06-3	3/8" Tube	3/8" Tube	150 PSI	2.24	0.67

# Brass Check Valves

## Brass - 400 PSI

### Features:

- 1/2 (0.5) PSI Cracking Pressure
- Suitable for Water, Oil, Air, and Inert Gases
- Saturated Steam 125 PSI
- Do NOT Use Near Reciprocating Pumps or Vibration

- Straight-Through, Streamlined Design for Minimal Pressure Drop
- Arrow Indicates One-Way Flow
- Brass Body
- Reinforced PTFE Spring Loaded Check

- Tight Shut-Off with Liquids
- No Radial Alignment Necessary
- NOT Lead-Free Compliant
- Temperature  
-20° to +353° F (-29° to +178° C)

### CV-30102-0.5

MP x FP - 1/2 PSI Crack - Brass



Part No.	Male Pipe	Female Pipe	Pressure	Length	O.D. Dia.
CV-30102-04-0.5	1/4 - 18	1/4 - 18	400 PSI	2.06	1.12
CV-30102-06-0.5	3/8 - 18	3/8 - 18	400 PSI	2.12	1.12
CV-30102-08-0.5	1/2 - 14	1/2 - 14	400 PSI	2.31	1.12
CV-30102-12-0.5	3/4 - 14	3/4 - 14	400 PSI	2.87	1.50
CV-30102-16-0.5	1 - 11 1/2	1 - 11 1/2	400 PSI	3.50	1.75
CV-30102-20-0.5	1 1/4 - 11 1/2	1 1/4 - 11 1/2	400 PSI	4.18	2.12
CV-30102-24-0.5	1 1/2 - 11 1/2	1 1/2 - 11 1/2	400 PSI	4.94	2.50
CV-30102-32-0.5	2 - 11 1/2	2 - 11 1/2	400 PSI	6.00	3.00

### CV-30202-0.5

FP x FP - 1/2 PSI Crack - Brass



Part No.	Female Pipe	Female Pipe	Pressure	Length	O.D. Dia.
CV-30202-04-0.5	1/4 - 18	1/4 - 18	400 PSI	2.06	1.12
CV-30202-06-0.5	3/8 - 18	3/8 - 18	400 PSI	2.12	1.12
CV-30202-08-0.5	1/2 - 14	1/2 - 14	400 PSI	2.31	1.12
CV-30202-12-0.5	3/4 - 14	3/4 - 14	400 PSI	2.87	1.50
CV-30202-16-0.5	1 - 11 1/2	1 - 11 1/2	400 PSI	3.50	1.75
CV-30202-20-0.5	1 1/4 - 11 1/2	1 1/4 - 11 1/2	400 PSI	4.18	2.12
CV-30202-24-0.5	1 1/2 - 11 1/2	1 1/2 - 11 1/2	400 PSI	4.94	2.50
CV-30202-32-0.5	2 - 11 1/2	2 - 11 1/2	400 PSI	6.00	3.00
CV-30202-40-0.5	2 1/2 - 8	2 1/2 - 8	400 PSI	7.00	3.87
CV-30202-48-0.5	3 - 8	3 - 8	400 PSI	8.12	5.31

**Steel - High Pressure****Features:**

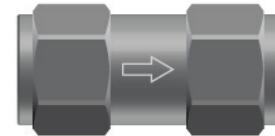
- 5, 14, and 65 PSI Cracking Pressures
- For Hydraulic Applications
- Arrow Indicates One-Way Flow
- Corrosion Resistant Plated Steel

- Spring Loaded Check
- Hardened Wear Parts
- NPT Pipe Threads
- Other Crack Pressures Available

- Temperature  
-4° to +248° F (-20° to +120° C)

**CV-50202-5**

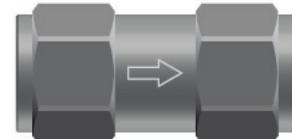
FP x FP - 5 PSI Crack - Steel



Part No.	Female Pipe	Female Pipe	Pressure	Length	Hex
CV-50202-02-5	1/8 - 27	1/8 - 27	5,800 PSI	1.73	0.55
CV-50202-04-5	1/4 - 18	1/4 - 18	7,250 PSI	1.97	0.75
CV-50202-06-5	3/8 - 18	3/8 - 18	5,075 PSI	2.36	0.94
CV-50202-08-5	1/2 - 14	1/2 - 14	5,075 PSI	2.76	1.06
CV-50202-12-5	3/4 - 14	3/4 - 14	3,625 PSI	3.39	1.34
CV-50202-16-5	1 - 11 1/2	1 - 11 1/2	3,625 PSI	3.39	1.61
CV-50202-20-5	1 1/4 - 11 1/2	1 1/4 - 11 1/2	3,625 PSI	5.12	1.97
CV-50202-24-5	1 1/2 - 11 1/2	1 1/2 - 11 1/2	3,625 PSI	5.51	2.56
CV-50202-32-5	2 - 11 1/2	2 - 11 1/2	2,175 PSI	6.30	2.95

**CV-50202-14**

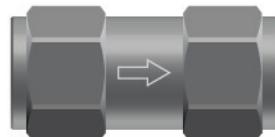
FP x FP - 14 PSI Crack - Steel



Part No.	Female Pipe	Female Pipe	Pressure	Length	Hex
CV-50202-04-14	1/4 - 18	1/4 - 18	5,075 PSI	2.36	0.75
CV-50202-08-14	1/2 - 14	1/2 - 14	4,350 PSI	3.03	1.18
CV-50202-12-14	3/4 - 14	3/4 - 14	4,350 PSI	3.54	1.42
CV-50202-16-14	1 - 11 1/2	1 - 11 1/2	4,350 PSI	4.17	1.77
CV-50202-20-14	1 1/4 - 11 1/2	1 1/4 - 11 1/2	3,625 PSI	4.92	2.17
CV-50202-24-14	1 1/2 - 11 1/2	1 1/2 - 11 1/2	3,625 PSI	5.51	2.56

**CV-50202-65**

FP x FP - 65 PSI Crack - Steel



Part No.	Female Pipe	Female Pipe	Pressure	Length	Hex
CV-50202-02-65	1/8 - 27	1/8 - 27	5,800 PSI	1.73	0.55
CV-50202-04-65	1/4 - 18	1/4 - 18	5,075 PSI	2.36	0.75
CV-50202-06-65	3/8 - 18	3/8 - 18	5,075 PSI	2.76	0.94
CV-50202-08-65	1/2 - 14	1/2 - 14	4,350 PSI	3.03	1.18
CV-50202-12-65	3/4 - 14	3/4 - 14	4,350 PSI	3.54	1.42
CV-50202-16-65	1 - 11 1/2	1 - 11 1/2	4,350 PSI	4.17	1.77
CV-50202-20-65	1 1/4 - 11 1/2	1 1/4 - 11 1/2	3,625 PSI	4.92	2.17
CV-50202-24-65	1 1/2 - 11 1/2	1 1/2 - 11 1/2	3,625 PSI	5.51	2.56
CV-50202-32-65	2 - 11 1/2	2 - 11 1/2	2,175 PSI	6.30	2.95

# Steel Check Valves

## Steel - High Pressure

### Features:

- 5 and 65 PSI Cracking Pressures
- For Hydraulic Applications
- Arrow Indicates One-Way Flow
- Black Phosphate Plated Steel
- Spring Loaded Check
- Closing Spring C72 Material
- Metal-To-Metal Seat –  
Averts High Flow Seal Extrusion
- Hardened Sealing Piston
- Alternate Use Pressure Sequence Valve

- O-Ring Boss Threads
- Other Crack Pressures Available
- Temperature  
-4° to +248° F (-20° to +120° C)

### CV-51010-5

FB x FB - 5 PSI Crack - Steel

Part No.	Female ORB	Female ORB	Pressure	Length	Hex
CV-51010-04-5	7/16 - 20	7/16 - 20	5,075 PSI	2.36	0.75
CV-51010-06-5	9/16 - 18	9/16 - 18	5,075 PSI	2.76	0.94
CV-51010-08-5	3/4 - 16	3/4 - 16	4,350 PSI	3.03	1.18
CV-51010-12-5	1 1/16 - 12	1 1/16 - 12	4,350 PSI	3.54	1.42
CV-51010-16-5	1 5/16 - 12	1 5/16 - 12	4,350 PSI	4.17	1.77
CV-51010-20-5	1 5/8 - 12	1 5/8 - 12	3,625 PSI	4.92	2.17
CV-51010-24-5	1 7/8 - 12	1 7/8 - 12	3,625 PSI	5.51	2.56
CV-51010-32-5	2 1/2 - 12	2 1/2 - 12	2,175 PSI	6.30	2.95



### CV-51010-65

FB x FB - 65 PSI Crack - Steel

Part No.	Female ORB	Female ORB	Pressure	Length	Hex
CV-51010-04-65	7/16 - 20	7/16 - 20	5,075 PSI	2.36	0.75
CV-51010-06-65	9/16 - 18	9/16 - 18	5,075 PSI	2.76	0.94
CV-51010-08-65	3/4 - 16	3/4 - 16	4,350 PSI	3.03	1.18
CV-51010-12-65	1 1/16 - 12	1 1/16 - 12	4,350 PSI	3.54	1.42
CV-51010-16-65	1 5/16 - 12	1 5/16 - 12	4,350 PSI	4.17	1.77
CV-51010-20-65	1 5/8 - 12	1 5/8 - 12	3,625 PSI	4.92	2.17
CV-51010-24-65	1 7/8 - 12	1 7/8 - 12	3,625 PSI	5.51	2.56
CV-51010-32-65	2 1/2 - 12	2 1/2 - 12	2,175 PSI	6.30	2.95



## Features:

- 5 PSI Cracking Pressure
- For Hydraulic Applications
- High Grade Carbon Steel
- Steel w/ Mate500® Cr (III) Plating
- Arrow Indicates One-Way Flow
- BSP Threads
- Spring Loaded Check
- Hardened Wear Parts
- Buna-N Seals
- Approvals: Meets ISO 7241-2

## Steel - High Pressure

- Temperature  
-13° to +257° F (-25° to +125° C)

## CV-53232-5

FBSP x FBSP - 5 PSI Crack - Steel

Part No.	Female BSP	Female BSP	Pressure	Length	Hex
CV-53232-04-5	1/4 - 19	1/4 - 19	7,250 PSI	1.97	0.75
CV-53232-06-5	3/8 - 19	3/8 - 19	5,075 PSI	2.36	0.94
CV-53232-08-5	1/2 - 14	1/2 - 14	5,075 PSI	2.76	1.06
CV-53232-12-5	3/4 - 14	3/4 - 14	3,625 PSI	3.39	1.34
CV-53232-16-5	1 - 11	1 - 11	3,625 PSI	3.94	1.61
CV-53232-20-5	1/4 - 11	1 1/4 - 11	3,625 PSI	5.12	1.97
CV-53232-24-5	1 1/2 - 11	1 1/2 - 11	2,900 PSI	5.71	2.36
CV-53232-32-5	2 - 11	2 - 11	2,500 PSI	6.30	2.95



# Drain Cocks

## Drain Cocks

### Features:

- Brass Construction (Machined or Forged)
- External or Internal Seats
- Low Pressure Air, Water, and Fluids
- 150 PSI Max. (Unless Otherwise Stated)

- Hand-Tightening Metal-To-Metal Seal
- For Automotive and Industrial Applications
- NOT intended for natural gas, LPG, nuclear, or aircraft applications

- **Temperature** (Unless Otherwise Stated)  
-65° to +250° F (-54° to +121° C)

### DC-600

Air Tank Valve w/ Cable - Brass



### DC-602L

MP - Internal Seat - Long Shank



### DC-601

MP - Trunk Air Tank Valve - Brass

30 PSI Maximum

Temperature: +32° to +125° F (+0° to +51° C)



### DC-603

MP - Internal Seat - Brass



### DC-601T

MP - Truck Drain Valve - T-Handle - Brass

30 PSI Maximum

Temperature: +32° to +125° F (+0° to +51° C)



### DC-604

MP - External Seat - Brass



### DC-602

MP - Internal Seat - Brass



#### Part No.

DC-601-02

DC-601-04B

DC-601-04

DC-601-06

DC-601-08

Male Pipe

1/8 - 27

1/4 - 18

3/8 - 18

1/2 - 14

Pressure

30 PSI

30 PSI

30 PSI

30 PSI

#### Part No.

DC-602-02

DC-602-04

DC-602-06

DC-602-08

Male Pipe

1/8 - 27

1/4 - 18

3/8 - 18

1/2 - 14

Pressure

150 PSI

150 PSI

150 PSI

150 PSI

Part No.	Male Pipe	Pressure
DC-602-02	1/8 - 27	150 PSI
DC-602-04	1/4 - 18	150 PSI
DC-602-06	3/8 - 18	150 PSI

## **DC-606**

BIBB x MP - External Seat - Brass



Part No.	Male Pipe	Pressure
DC-606-04	1/4 - 18	150 PSI

## **DC-607**

BIBB x MP 90° - External Seat - Brass



Part No.	BIBB	Male Pipe	Pressure
DC-607-02-02	1/8" Bibb	1/8 - 27	150 PSI
DC-607-04-02	1/4" Bibb	1/8 - 27	150 PSI
DC-607-04-04	1/4" Bibb	1/4 - 18	150 PSI
DC-607-06-04	3/8" Bibb	1/4 - 18	150 PSI

## Features:

fau•cet  
fôsít/ (Noun)

1. a device by which a flow of liquid or gas from a pipe or container can be controlled; a tap.

## Drum Faucets

### **DF-BF**

MP - Barrel Faucet - Die Cast



#### Part No.

#### Male Pipe

#### Size

DF-BF-12	3/4 - 14	3/4"
----------	----------	------

- Die Cast Body
- Nylon Seat
- Steel Spring
- Self Closing
- Notice: NOT for Potable Water
- Good for All Petroleum Products Except Trichlorethylene

### **DF-POLY**

MP - Drum Faucet - Polyethylene



#### Part No.

#### Male Pipe

#### Size

DF-POLY-12	3/4 - 14	3/4"
DF-POLY-32	2 - 11 1/2	2"

- Gold Polyethylene Body
- No Wrenches or Tools Needed for Installation
- 3/4" Does Not Require a Gasket
- 2" Comes With a Gasket
- **Temperature:** Maximum +140° F (+60° C)

# Brass Flow Control Valves

(Pages 34-39)

## Flow Control Valves vs. Needle Valves

**Flow Control Valves** and **Needle Valves** are both used to control the flow of water or air in a hydraulic or pneumatic circuit. The main difference is that the needle valve controls the flow in *both* directions (Bi-Flow), while the Flow Control Valve only ensures control in one direction (Flow In or Flow Out). Both valves have finely threaded tapered stems, which allow control by the gradual adjustment of the flow passing through the valve.

Our **Nickel Plated Brass Flow Control Valves** are among the highest quality in the industry. They offer the same advantages as our Nickel Plated Brass Push-To-Connect fittings and are available with either a screwdriver adjustment screw, or a built-in knob with a locknut to lock in the setting once adjusted.

The **Sure-Fit Thread (SFX)** is a male swivel thread that allows one thread to be eight different threads.\* The **Sure-Fit Thread** utilizes a Buna-N Seal to ensure leak-free performance, and the "swivel" thread eliminates any orientation problems.

\* NPT, NPTF, BSPT, BSPP, ISO 7, ISO 228, G-Thread, and J-Thread

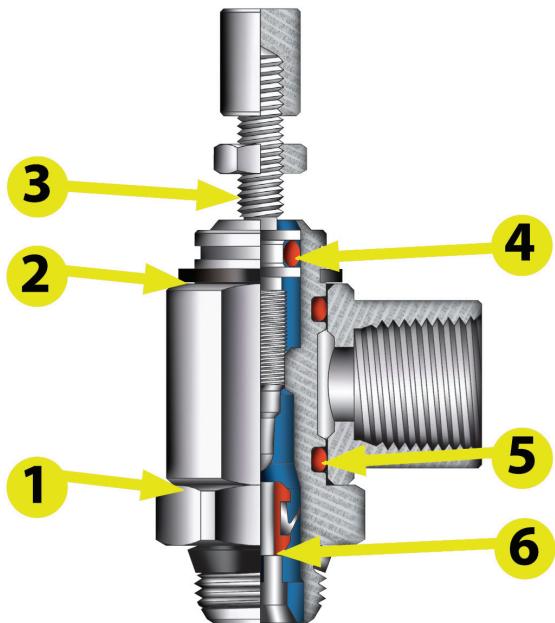
## Features/Benefits

- Good for Compressed Air and Water
- 250 PSI (17 Bar)
- 2-Way Bi-Directional (Bi-Flow)
- 1-Way Only (Flow IN / OUT)
- Screwdriver or Knobbed (Lockable) Adjustment
- Nickel Plated Brass Body
- Nickel Plated Brass Adjusting Mechanism
- Stainless Steel Shaft Clip
- Buna-N Lip Seal and O-Rings
- Vacuum Rated
- **Sure-Fit Thread Convenience**
- NOT Lead-Free Compliant
- **Temperature:** -0° to +160° F (-18° to +71° C)

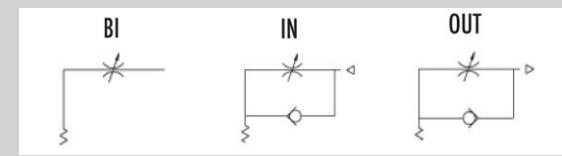
Metric Millimeter Nickel Plated Brass Flow Control Valves are readily available.



## Valve Components



- |                        |             |
|------------------------|-------------|
| 1. Body                | 4. O-Ring   |
| 2. Shaft Clip          | 5. O-Ring   |
| 3. Adjusting Mechanism | 6. Lip Seal |



# Polymer Flow Control Valves

(Pages 40-45)

## Flow Control Valves vs. Needle Valves

**Flow Control Valves** and **Needle Valves** are both used to control the flow of water or air in a hydraulic or pneumatic circuit. The main difference is that the needle valve controls the flow in *both* directions (Bi-Flow), while the Flow Control Valve only ensures control in one direction (Flow In or Flow Out). Both valves have finely threaded tapered stems, which allow control by the gradual adjustment of the flow passing through the valve.

Our composite **Polymer Flow Control Valves** are lightweight, offer quick installation, and are reusable for multiple connections and disconnections. They offer the same advantages as our composite Polymer Push-To-Connect fittings and are available with either a screwdriver adjustment screw, or a built-in knob with a locknut to lock in the setting once adjusted.

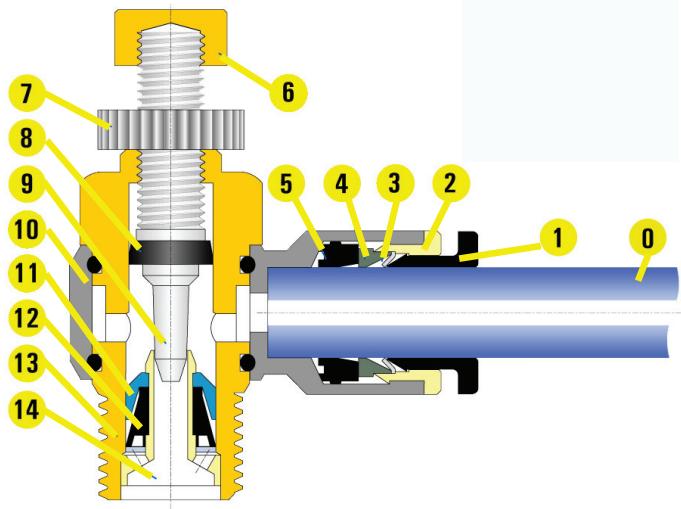
In addition, the male pipe swivels (MPX) come with a pre-applied Teflon® sealant and the "swivel" thread eliminates any orientation problems.

## Features/Benefits

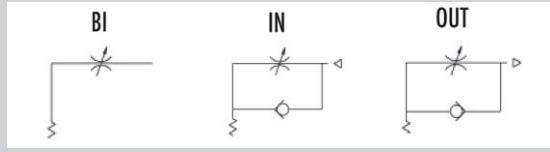
- Good for Compressed Air and Water
- 150 PSI (10 Bar)
- 2-Way Bi-Directional (Bi-Flow)
- 1-Way Only (Flow IN / OUT)
- Screwdriver or Knobbed (Lockable) Adjustment
- Composite Polymer Body
- Nickel Plated Brass Threads
- Teflon® Sealant on Male Pipe Swivels
- Buna-N Lip Seal and O-Rings
- Temperature: +32° to +140° F (-0° to +60° C)



## Valve Components



- |                          |                      |
|--------------------------|----------------------|
| 0. Tube                  | 8. Lip Seal          |
| 1. Release Collar        | 9. Needle            |
| 2. Metal Liner           | 10. Polymer Body     |
| 3. Stainless Steel Teeth | 11. Stop             |
| 4. Tube Stop             | 12. Lip Seal         |
| 5. Lip Seal              | 13. MP Swivel Thread |
| 6. Adjusting Knob        | 14. Nozzle           |
| 7. Locknut               |                      |



Metric Millimeter Polymer Flow Control Valves are readily available.  
Teflon® is a DuPont Registered Trademark.

# Brass Flow Control Valves

## FCV-1169SN-BI

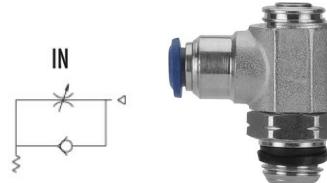
PTC x SFX (MPX) 90° - Bi-Flow - Nickel Plated Brass



Part No.	Push-To-Connect	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-1169SN-BI-02-00	1/8" Tube	10-32 unf	250 PSI	0.75	0.95	0.16	0.32
FCV-1169SN-BI-02-02	1/8" Tube	1/8 - 27	250 PSI	0.83	1.18	0.22	0.55
FCV-1169SN-BI-25-00	5/32" Tube	10-32 unf	250 PSI	0.75	0.95	0.16	0.32
FCV-1169SN-BI-25-02	5/32" Tube	1/8 - 27	250 PSI	0.83	1.18	0.22	0.55
FCV-1169SN-BI-04-02	1/4" Tube	1/8 - 27	250 PSI	0.87	1.18	0.22	0.55
FCV-1169SN-BI-04-04	1/4" Tube	1/4 - 18	250 PSI	0.98	1.42	0.28	0.67
FCV-1169SN-BI-06-04	3/8" Tube	1/4 - 18	250 PSI	1.18	1.61	0.30	0.79
FCV-1169SN-BI-06-06	3/8" Tube	3/8 - 18	250 PSI	1.18	1.61	0.30	0.79
FCV-1169SN-BI-08-06	1/2" Tube	3/8 - 18	250 PSI	1.28	1.61	0.30	0.79
FCV-1169SN-BI-08-08	1/2" Tube	1/2 - 14	250 PSI	1.38	1.85	0.35	0.95

## FCV-1169SN-IN

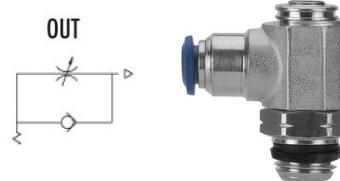
PTC x SFX (MPX) 90° - Flow IN - Nickel Plated Brass



Part No.	Push-To-Connect	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-1169SN-IN-02-00	1/8" Tube	10-32 unf	250 PSI	0.75	0.95	0.16	0.32
FCV-1169SN-IN-02-02	1/8" Tube	1/8 - 27	250 PSI	0.83	1.18	0.22	0.55
FCV-1169SN-IN-25-00	5/32" Tube	10-32 unf	250 PSI	0.75	0.95	0.16	0.32
FCV-1169SN-IN-25-02	5/32" Tube	1/8 - 27	250 PSI	0.83	1.18	0.22	0.55
FCV-1169SN-IN-04-02	1/4" Tube	1/8 - 27	250 PSI	0.87	1.18	0.22	0.55
FCV-1169SN-IN-04-04	1/4" Tube	1/4 - 18	250 PSI	0.98	1.42	0.28	0.67
FCV-1169SN-IN-06-04	3/8" Tube	1/4 - 18	250 PSI	1.18	1.61	0.30	0.79
FCV-1169SN-IN-06-06	3/8" Tube	3/8 - 18	250 PSI	1.18	1.61	0.30	0.79
FCV-1169SN-IN-08-06	1/2" Tube	3/8 - 18	250 PSI	1.28	1.61	0.30	0.79
FCV-1169SN-IN-08-08	1/2" Tube	1/2 - 14	250 PSI	1.38	1.85	0.35	0.95

## FCV-1169SN-OUT

PTC x SFX (MPX) 90° - Flow OUT - Nickel Plated Brass



Part No.	Push-To-Connect	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-1169SN-OUT-02-00	1/8" Tube	10-32 unf	250 PSI	0.75	0.95	0.16	0.32
FCV-1169SN-OUT-02-02	1/8" Tube	1/8 - 27	250 PSI	0.83	1.18	0.22	0.55
FCV-1169SN-OUT-25-00	5/32" Tube	10-32 unf	250 PSI	0.75	0.95	0.16	0.32
FCV-1169SN-OUT-25-02	5/32" Tube	1/8 - 27	250 PSI	0.83	1.18	0.22	0.55
FCV-1169SN-OUT-04-02	1/4" Tube	1/8 - 27	250 PSI	0.87	1.18	0.22	0.55
FCV-1169SN-OUT-04-04	1/4" Tube	1/4 - 18	250 PSI	0.98	1.42	0.28	0.67
FCV-1169SN-OUT-06-04	3/8" Tube	1/4 - 18	250 PSI	1.18	1.61	0.30	0.79
FCV-1169SN-OUT-06-06	3/8" Tube	3/8 - 18	250 PSI	1.18	1.61	0.30	0.79
FCV-1169SN-OUT-08-06	1/2" Tube	3/8 - 18	250 PSI	1.28	1.61	0.30	0.79
FCV-1169SN-OUT-08-08	1/2" Tube	1/2 - 14	250 PSI	1.38	1.85	0.35	0.95

## FCV-3400SN-BI

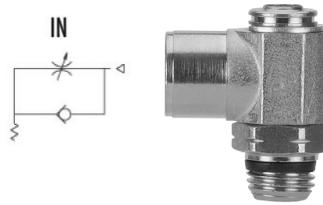
FP x SFX (MPX) 90° - Bi-Flow - Nickel Plated Brass



Part No.	Female Pipe	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-3400SN-BI-00-00	10-32 unf	10-32 unf	250 PSI	0.40	0.95	0.16	0.32
FCV-3400SN-BI-02-02	1/8 - 27	1/8 - 27	250 PSI	0.65	1.18	0.22	0.55
FCV-3400SN-BI-04-04	1/4 - 18	1/4 - 18	250 PSI	0.87	1.42	0.28	0.67
FCV-3400SN-BI-06-06	3/8 - 18	3/8 - 18	250 PSI	1.04	1.61	0.30	0.79

## FCV-3400SN-IN

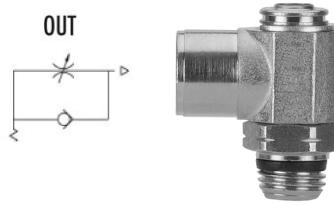
FP x SFX (MPX) 90° - Flow IN - Nickel Plated Brass



Part No.	Female Pipe	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-3400SN-IN-00-00	10-32 unf	10-32 unf	250 PSI	0.39	0.95	0.16	0.32
FCV-3400SN-IN-02-02	1/8 - 27	1/8 - 27	250 PSI	0.65	1.18	0.22	0.55
FCV-3400SN-IN-04-04	1/4 - 18	1/4 - 18	250 PSI	0.87	1.42	0.28	0.67
FCV-3400SN-IN-06-06	3/8 - 18	3/8 - 18	250 PSI	1.04	1.61	0.30	0.79

## FCV-3400SN-OUT

FP x SFX (MPX) 90° - Flow OUT - Nickel Plated Brass



Part No.	Female Pipe	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-3400SN-OUT-00-00	10-32 unf	10-32 unf	250 PSI	0.39	0.94	0.16	0.32
FCV-3400SN-OUT-02-02	1/8 - 27	1/8 - 27	250 PSI	0.65	1.18	0.22	0.55
FCV-3400SN-OUT-04-04	1/4 - 18	1/4 - 18	250 PSI	0.87	1.42	0.28	0.67
FCV-3400SN-OUT-06-06	3/8 - 18	3/8 - 18	250 PSI	1.04	1.61	0.30	0.79

# Brass Flow Control Valves (with Knobs)

## FCV-KNOB-1162N

PTC x PTC - BI-Flow - Nickel Plated Brass



Part No.	Push-To-Connect	Push-To-Connect	Pressure	Length	Height	Mt. Hole Dia.	Mt. Hole Spacing	Locknut Hex
FCV-KNOB-1162N-04-04	1/4" Tube	1/4" Tube	250 PSI	1.89	1.58-1.83	0.12	0.68	0.51
FCV-KNOB-1162N-06-06	3/8" Tube	3/8" Tube	250 PSI	2.27	1.93-2.16	0.16	0.79	0.71

## FCV-KNOB-1168SN

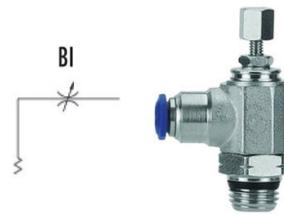
PTC x SFX (MPX) - BI-Flow - Nickel Plated Brass



Part No.	Push-To-Connect	SFX (MPX)	Pressure	Length	Height	Assembly	Mt. Hole Dia.	Mt. Hole Spacing	MPX Hex	Locknut Hex
FCV-KNOB-1168SN-04-04	1/4" Tube	1/4 - 18	250 PSI	1.10	1.59-1.83	0.28	0.12	0.68	0.51	0.51
FCV-KNOB-1168SN-04-06	1/4" Tube	3/8 - 18	250 PSI	2.51	1.93-2.16	0.28	0.16	0.79	0.63	0.71
FCV-KNOB-1168SN-06-06	3/8" Tube	3/8 - 18	250 PSI	2.43	1.93-2.16	0.30	0.16	0.79	0.67	0.71

## FCV-KNOB-1169SN-BI

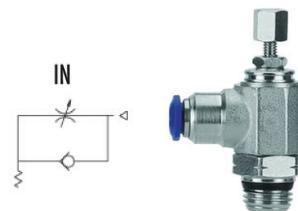
PTC x SFX (MPX) 90° - BI-Flow - Nickel Plated Brass



Part No.	Push-To-Connect	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-KNOB-1169SN-BI-02-00	1/8" Tube	10-32 unf	250 PSI	0.75	1.29-1.48	0.16	0.32
FCV-KNOB-1169SN-BI-02-02	1/8" Tube	1/8 - 27	250 PSI	0.83	1.61-1.83	0.22	0.55
FCV-KNOB-1169SN-BI-25-00	5/32" Tube	10-32 unf	250 PSI	0.75	1.30-1.47	0.16	0.32
FCV-KNOB-1169SN-BI-25-02	5/32" Tube	1/8 - 27	250 PSI	0.83	1.61-1.83	0.22	0.55
FCV-KNOB-1169SN-BI-04-02	1/4" Tube	1/8 - 27	250 PSI	0.87	1.61-1.83	0.22	0.55
FCV-KNOB-1169SN-BI-04-04	1/4" Tube	1/4 - 18	250 PSI	0.98	1.85-2.09	0.28	0.67
FCV-KNOB-1169SN-BI-06-04	3/8" Tube	1/4 - 18	250 PSI	1.18	2.21-2.48	0.30	0.79
FCV-KNOB-1169SN-BI-06-06	3/8" Tube	3/8 - 18	250 PSI	1.18	2.21-2.48	0.30	0.79
FCV-KNOB-1169SN-BI-08-06	1/2" Tube	3/8 - 18	250 PSI	1.28	2.21-2.48	0.30	0.79
FCV-KNOB-1169SN-BI-08-08	1/2" Tube	1/2 - 14	250 PSI	1.38	2.40-2.72	0.35	0.95

## FCV-KNOB-1169SN-IN

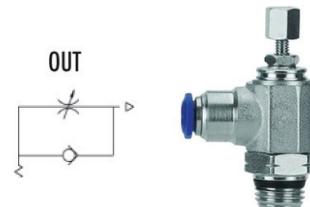
PTC x SFX (MPX) 90° - Flow IN - Nickel Plated Brass



Part No.	Push-To-Connect	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-KNOB-1169SN-IN-02-00	1/8" Tube	10-32 unf	250 PSI	0.75	1.30-1.48	0.16	0.32
FCV-KNOB-1169SN-IN-02-02	1/8" Tube	1/8 - 27	250 PSI	0.83	1.61-1.83	0.22	0.55
FCV-KNOB-1169SN-IN-25-00	5/32" Tube	10-32 unf	250 PSI	0.75	1.30-1.47	0.16	0.32
FCV-KNOB-1169SN-IN-25-02	5/32" Tube	1/8 - 27	250 PSI	0.83	1.61-1.83	0.22	0.55
FCV-KNOB-1169SN-IN-04-02	1/4" Tube	1/8 - 27	250 PSI	0.87	1.61-1.83	0.22	0.55
FCV-KNOB-1169SN-IN-04-04	1/4" Tube	1/4 - 18	250 PSI	0.98	1.85-2.09	0.28	0.67
FCV-KNOB-1169SN-IN-06-04	3/8" Tube	1/4 - 18	250 PSI	1.18	2.21-2.48	0.30	0.79
FCV-KNOB-1169SN-IN-06-06	3/8" Tube	3/8 - 18	250 PSI	1.18	2.21-2.48	0.30	0.79
FCV-KNOB-1169SN-IN-08-06	1/2" Tube	3/8 - 18	250 PSI	1.28	2.21-2.48	0.30	0.79
FCV-KNOB-1169SN-IN-08-08	1/2" Tube	1/2 - 14	250 PSI	1.38	2.40-2.72	0.35	0.95

## FCV-KNOB-1169SN-OUT

PTC x SFX (MPX) 90° - Flow OUT - Nickel Plated Brass

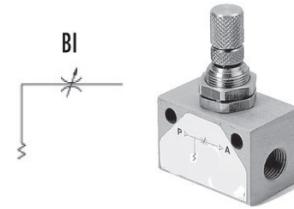


Part No.	Push-To-Connect	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-KNOB-1169SN-OUT-02-00	1/8" Tube	10-32 unf	250 PSI	0.75	1.30-1.48	0.16	0.32
FCV-KNOB-1169SN-OUT-02-02	1/8" Tube	1/8 - 27	250 PSI	0.83	1.61-1.83	0.22	0.55
FCV-KNOB-1169SN-OUT-25-00	5/32" Tube	10-32 unf	250 PSI	0.75	1.30-1.47	0.16	0.32
FCV-KNOB-1169SN-OUT-25-02	5/32" Tube	1/8 - 27	250 PSI	0.83	1.61-1.83	0.22	0.55
FCV-KNOB-1169SN-OUT-04-02	1/4" Tube	1/8 - 27	250 PSI	0.87	1.61-1.83	0.22	0.55
FCV-KNOB-1169SN-OUT-04-04	1/4" Tube	1/4 - 18	250 PSI	0.98	1.85-2.09	0.28	0.67
FCV-KNOB-1169SN-OUT-06-04	3/8" Tube	1/4 - 18	250 PSI	1.18	2.21-2.48	0.30	0.79
FCV-KNOB-1169SN-OUT-06-06	1/2" Tube	3/8 - 18	250 PSI	1.18	2.21-2.48	0.30	0.79
FCV-KNOB-1169SN-OUT-08-06	1/2" Tube	3/8 - 18	250 PSI	1.28	2.21-2.48	0.30	0.79
FCV-KNOB-1169SN-OUT-08-08	1/2" Tube	1/2 - 14	250 PSI	1.38	2.40-2.72	0.35	0.95

# Brass Flow Control Valves (with Knobs)

## FCV-KNOB-3300N-BI

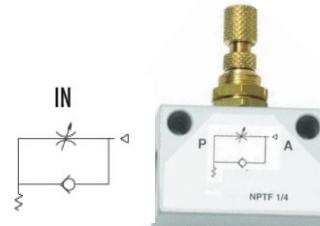
FP x FP - BI-Flow - Nickel Plated Brass



Part No.	Female Pipe	Female Pipe	Pressure	Length	Height	Mt. Hole Dia.	Mt. Hole Spacing	Width	Locknut Hex
FCV-KNOB-3300N-BI-02-02	1/8 - 27	1/8 - 27	250 PSI	1.38	1.89-2.28	0.18	0.98	0.71	0.59
FCV-KNOB-3300N-BI-04-04	1/4 - 18	1/4 - 18	250 PSI	1.81	2.20-2.60	0.26	1.38	0.79	0.59
FCV-KNOB-3300N-BI-06-06	3/8 - 18	3/8 - 18	250 PSI	1.97	2.44-2.83	0.26	1.38	0.98	0.87
FCV-KNOB-3300N-BI-08-08	1/2 - 14	1/2 - 14	250 PSI	2.36	2.83-3.31	0.26	1.73	0.98	0.87

## FCV-KNOB-3300N-IN

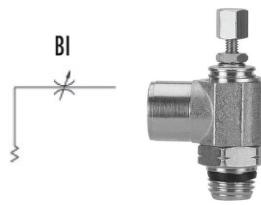
FP x FP - Flow IN - Nickel Plated Brass



Part No.	Female Pipe	Female Pipe	Pressure	Length	Height	Mt. Hole Dia.	Mt. Hole Spacing	Width	Locknut Hex
FCV-KNOB-3300N-IN-02-02	1/8 - 27	1/8 - 27	250 PSI	1.38	1.89-2.28	0.18	0.98	0.71	0.59
FCV-KNOB-3300N-IN-04-04	1/4 - 18	1/4 - 18	250 PSI	1.81	2.20-2.60	0.26	1.38	0.79	0.59
FCV-KNOB-3300N-IN-06-06	3/8 - 18	3/8 - 18	250 PSI	1.97	2.44-2.83	0.26	1.38	0.98	0.87
FCV-KNOB-3300N-IN-08-08	1/2 - 14	1/2 - 14	250 PSI	2.36	2.83-3.31	0.26	1.73	0.98	0.87

## **FCV-KNOB-3400SN-BI**

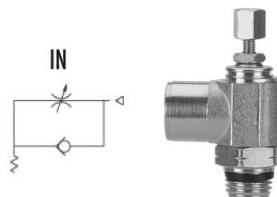
FP x SFX (MPX) 90° - Bi-Flow - Nickel Plated Brass



Part No.	Female Pipe	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-KNOB-3400SN-BI-02-02	1/8 - 27	1/8 - 27	250 PSI	0.65	1.61-1.83	0.22	0.55
FCV-KNOB-3400SN-BI-04-04	1/4 - 18	1/4 - 18	250 PSI	0.87	1.85-2.09	0.28	0.67
FCV-KNOB-3400SN-BI-06-06	3/8 - 18	3/8 - 18	250 PSI	1.04	2.21-2.48	0.30	0.79

## **FCV-KNOB-3400SN-IN**

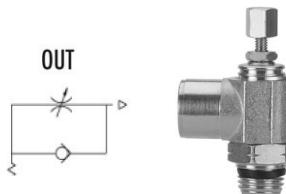
FP x SFX (MPX) 90° - Flow IN - Nickel Plated Brass



Part No.	Female Pipe	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-KNOB-3400SN-IN-02-02	1/8 - 27	1/8 - 27	250 PSI	0.65	1.61-1.83	0.22	0.55
FCV-KNOB-3400SN-IN-04-04	1/4 - 18	1/4 - 18	250 PSI	0.87	1.85-2.09	0.28	0.67
FCV-KNOB-3400SN-IN-06-06	3/8 - 18	3/8 - 18	250 PSI	1.04	2.21-2.48	0.30	0.79

## **FCV-KNOB-3400SN-OUT**

FP x SFX (MPX) 90° - Flow OUT - Nickel Plated Brass



Part No.	Female Pipe	SFX (MPX)	Pressure	Length	Height	Assembly	MPX Hex
FCV-KNOB-3400SN-OUT-02-02	1/8 - 27	1/8 - 27	250 PSI	0.65	1.61-1.83	0.22	0.55
FCV-KNOB-3400SN-OUT-04-04	1/4 - 18	1/4 - 18	250 PSI	0.87	1.85-2.09	0.28	0.67
FCV-KNOB-3400SN-OUT-06-06	3/8 - 18	3/8 - 18	250 PSI	1.04	2.21-2.48	0.30	0.79

# Polymer Flow Control Valves

## FCV-1169SP-BI

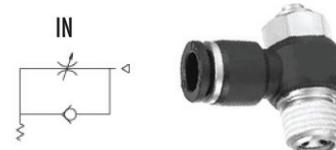
PTC x MPX 90° - BI-Flow - Polymer



Part No.	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	Hex
FCV-1169SP-BI-02-00	1/8" Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.31
FCV-1169SP-BI-02-02	1/8" Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-1169SP-BI-25-00	5/32" Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.31
FCV-1169SP-BI-25-02	5/32" Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-1169SP-BI-03-00	3/16" Tube	10-32 unf	150 PSI	0.89	0.36	0.16	0.31
FCV-1169SP-BI-03-02	3/16" Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-1169SP-BI-03-04	3/16" Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56
FCV-1169SP-BI-03-06	3/16" Tube	3/8 - 18	150 PSI	1.07	0.61	0.48	0.75
FCV-1169SP-BI-04-00	1/4" Tube	10-32 unf	150 PSI	0.89	0.36	0.16	1.00
FCV-1169SP-BI-04-02	1/4" Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-1169SP-BI-04-04	1/4" Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56
FCV-1169SP-BI-04-06	1/4" Tube	3/8 - 18	150 PSI	1.07	0.61	0.47	0.75
FCV-1169SP-BI-05-02	5/16" Tube	1/8 - 27	150 PSI	0.97	0.47	0.32	0.50
FCV-1169SP-BI-05-04	5/16" Tube	1/4 - 18	150 PSI	1.06	0.47	0.43	0.56
FCV-1169SP-BI-05-06	5/16" Tube	3/8 - 18	150 PSI	1.13	0.61	0.47	0.75
FCV-1169SP-BI-05-08	5/16" Tube	1/2 - 14	150 PSI	1.20	0.69	0.59	1.00
FCV-1169SP-BI-06-04	3/8" Tube	1/4 - 18	150 PSI	1.22	0.47	0.43	0.56
FCV-1169SP-BI-06-06	3/8" Tube	3/8 - 18	150 PSI	1.22	0.61	0.47	0.75
FCV-1169SP-BI-06-08	3/8" Tube	1/2 - 14	150 PSI	1.34	0.69	0.59	1.00
FCV-1169SP-BI-08-06	1/2" Tube	3/8 - 18	150 PSI	1.31	0.61	0.47	0.75
FCV-1169SP-BI-08-08	1/2" Tube	1/2 - 14	150 PSI	1.39	0.69	0.59	1.00

## FCV-1169SP-IN

PTC x MPX 90° - Flow IN - Polymer

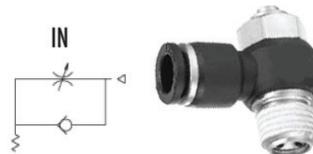


Part No.	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	Hex
FCV-1169SP-IN-02-00	1/8" Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.56
FCV-1169SP-IN-02-02	1/8" Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-1169SP-IN-25-00	5/32" Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.56
FCV-1169SP-IN-25-02	5/32" Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-1169SP-IN-03-00	3/16" Tube	10-32 unf	150 PSI	0.89	0.36	0.16	0.56
FCV-1169SP-IN-03-02	3/16" Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-1169SP-IN-03-04	3/16" Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56
FCV-1169SP-IN-03-06	3/16" Tube	3/8 - 18	150 PSI	1.07	0.61	0.47	0.75
FCV-1169SP-IN-04-00	1/4" Tube	10-32 unf	150 PSI	0.89	0.36	0.16	1.00
FCV-1169SP-IN-04-02	1/4" Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-1169SP-IN-04-04	1/4" Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56

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## FCV-1169SP-IN

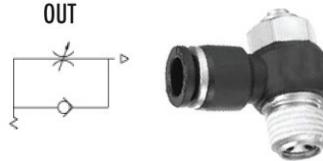
PTC x MPX 90° - Flow IN - Polymer



Part No.	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	Hex
FCV-1169SP-IN-04-06	1/4" Tube	3/8 - 18	150 PSI	1.07	0.61	0.47	0.75
FCV-1169SP-IN-05-02	5/16" Tube	1/8 - 27	150 PSI	0.97	0.47	0.32	0.50
FCV-1169SP-IN-05-04	5/16" Tube	1/4 - 18	150 PSI	1.06	0.47	0.43	0.56
FCV-1169SP-IN-05-06	5/16" Tube	3/8 - 18	150 PSI	1.13	0.61	0.47	0.75
FCV-1169SP-IN-05-08	5/16" Tube	1/2 - 14	150 PSI	1.20	0.69	0.59	1.00
FCV-1169SP-IN-06-04	3/8" Tube	1/4 - 18	150 PSI	1.22	0.47	0.43	0.56
FCV-1169SP-IN-06-06	3/8" Tube	3/8 - 18	150 PSI	1.22	0.61	0.47	0.75
FCV-1169SP-IN-06-08	3/8" Tube	1/2 - 14	150 PSI	1.34	0.69	0.59	1.00
FCV-1169SP-IN-08-06	1/2" Tube	3/8 - 18	150 PSI	1.31	0.61	0.47	0.75
FCV-1169SP-IN-08-08	1/2" Tube	1/2 - 14	150 PSI	1.39	0.69	0.59	1.00

## FCV-1169SP-OUT

PTC x MPX 90° - Flow OUT - Polymer



Part No.	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	Hex
FCV-1169SP-OUT-02-00	1/8" Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.56
FCV-1169SP-OUT-02-02	1/8" Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-1169SP-OUT-25-00	5/32" Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.56
FCV-1169SP-OUT-25-02	5/32" Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-1169SP-OUT-03-00	3/16" Tube	10-32 unf	150 PSI	0.89	0.36	0.16	0.56
FCV-1169SP-OUT-03-02	3/16" Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-1169SP-OUT-03-04	3/16" Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56
FCV-1169SP-OUT-03-06	3/16" Tube	3/8 - 18	150 PSI	1.07	0.61	0.47	0.75
FCV-1169SP-OUT-04-00	1/4" Tube	10-32 unf	150 PSI	0.89	0.36	0.16	1.00
FCV-1169SP-OUT-04-02	1/4" Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-1169SP-OUT-04-04	1/4" Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56
FCV-1169SP-OUT-04-06	1/4" Tube	3/8 - 18	150 PSI	1.07	0.61	0.47	0.75
FCV-1169SP-OUT-05-02	5/16" Tube	1/8 - 27	150 PSI	0.97	0.47	0.32	0.50
FCV-1169SP-OUT-05-04	5/16" Tube	1/4 - 18	150 PSI	1.06	0.47	0.43	0.56
FCV-1169SP-OUT-05-06	5/16" Tube	3/8 - 18	150 PSI	1.13	0.61	0.47	0.75
FCV-1169SP-OUT-05-08	5/16" Tube	1/2 - 14	150 PSI	1.20	0.69	0.59	1.00
FCV-1169SP-OUT-06-04	3/8" Tube	1/4 - 18	150 PSI	1.22	0.47	0.43	0.56
FCV-1169SP-OUT-06-06	3/8" Tube	3/8 - 18	150 PSI	1.22	0.61	0.47	0.75
FCV-1169SP-OUT-06-08	3/8" Tube	1/2 - 14	150 PSI	1.34	0.69	0.59	1.00
FCV-1169SP-OUT-08-06	1/2" Tube	3/8 - 18	150 PSI	1.31	0.61	0.47	0.75
FCV-1169SP-OUT-08-08	1/2" Tube	1/2 - 14	150 PSI	1.39	0.69	0.59	1.00

# Polymer Flow Control Valves (with Knobs)

## FCV-KNOB-1162P

PTC x PTC - Polymer



Part No.	Push-To-Connect	Push-To-Connect	Pressure	Length	Height
FCV-KNOB-1162P-02-02	1/8" Tube	1/8" Tube	150 PSI	1.89	0.41
FCV-KNOB-1162P-25-25	5/32" Tube	5/32" Tube	150 PSI	1.89	0.42
FCV-KNOB-1162P-03-03	3/16" Tube	3/16" Tube	150 PSI	1.91	0.44
FCV-KNOB-1162P-04-04	1/4" Tube	1/4" Tube	150 PSI	1.93	0.44
FCV-KNOB-1162P-05-05	5/16" Tube	5/16" Tube	150 PSI	2.17	0.47
FCV-KNOB-1162P-06-06	3/8" Tube	3/8" Tube	150 PSI	2.48	0.48
FCV-KNOB-1162P-08-08	1/2" Tube	1/2" Tube	150 PSI	2.91	0.62

## FCV-KNOB-1168SP

PTC x MPX - Polymer



Part No.	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	MPX Hex
FCV-KNOB-1168SP-02-02	1/8" Tube	1/8 - 27	150 PSI	2.19	0.41	0.32	0.44
FCV-KNOB-1168SP-25-02	5/32" Tube	1/8 - 27	150 PSI	2.19	0.41	0.32	0.44
FCV-KNOB-1168SP-03-02	3/16" Tube	1/8 - 27	150 PSI	2.25	0.44	0.32	0.50
FCV-KNOB-1168SP-04-02	1/4" Tube	1/8 - 27	150 PSI	2.25	0.44	0.32	0.50
FCV-KNOB-1168SP-04-04	1/4" Tube	1/4 - 18	150 PSI	2.34	0.44	0.43	0.56
FCV-KNOB-1168SP-05-02	5/16" Tube	1/8 - 27	150 PSI	2.45	0.47	0.32	0.56
FCV-KNOB-1168SP-05-04	5/16" Tube	1/4 - 18	150 PSI	2.57	0.47	0.43	0.56
FCV-KNOB-1168SP-05-06	5/16" Tube	3/8 - 18	150 PSI	2.63	0.47	0.47	0.69
FCV-KNOB-1168SP-06-02	3/8" Tube	1/8 - 27	150 PSI	2.75	0.48	0.32	0.69
FCV-KNOB-1168SP-06-04	3/8" Tube	1/4 - 18	150 PSI	2.87	0.48	0.43	0.69
FCV-KNOB-1168SP-06-06	3/8" Tube	3/8 - 18	150 PSI	2.91	0.48	0.47	0.69
FCV-KNOB-1168SP-06-08	3/8" Tube	1/2 - 14	150 PSI	3.06	0.48	0.59	0.88
FCV-KNOB-1168SP-08-02	1/2" Tube	1/8 - 27	150 PSI	3.24	0.61	0.43	0.75
FCV-KNOB-1168SP-08-04	1/2" Tube	1/4 - 18	150 PSI	3.36	0.61	0.43	0.75
FCV-KNOB-1168SP-08-06	1/2" Tube	3/8 - 18	150 PSI	3.40	0.61	0.47	0.75
FCV-KNOB-1168SP-08-08	1/2" Tube	1/2 - 14	150 PSI	3.54	0.61	0.59	0.88

## FCV-KNOB-1168RSP\*

REVERSE - PTC x MPX INLET - Polymer



Part No.	INLET						
	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	MPX Hex
FCV-KNOB-1168RSP-02-02	1/8" Tube	1/8 - 27	150 PSI	2.19	0.41	0.32	0.44
FCV-KNOB-1168RSP-25-02	5/32" Tube	1/8 - 27	150 PSI	2.19	0.41	0.32	0.44
FCV-KNOB-1168RSP-03-02	3/16" Tube	1/8 - 27	150 PSI	2.25	0.44	0.32	0.50
FCV-KNOB-1168RSP-04-02	1/4" Tube	1/8 - 27	150 PSI	2.25	0.44	0.32	0.50
FCV-KNOB-1168RSP-04-04	1/4" Tube	1/4 - 18	150 PSI	2.34	0.44	0.43	0.56
FCV-KNOB-1168RSP-05-02	5/16" Tube	1/8 - 27	150 PSI	2.45	0.47	0.32	0.56
FCV-KNOB-1168RSP-05-04	5/16" Tube	1/4 - 18	150 PSI	2.57	0.47	0.43	0.56
FCV-KNOB-1168RSP-05-06	5/16" Tube	3/8 - 18	150 PSI	2.63	0.47	0.47	0.69
FCV-KNOB-1168RSP-06-02	3/8" Tube	1/8 - 27	150 PSI	2.75	0.48	0.32	0.69
FCV-KNOB-1168RSP-06-04	3/8" Tube	1/4 - 18	150 PSI	2.87	0.48	0.43	0.69
FCV-KNOB-1168RSP-06-06	3/8" Tube	3/8 - 18	150 PSI	2.91	0.48	0.47	0.69
FCV-KNOB-1168RSP-06-08	3/8" Tube	1/2 - 14	150 PSI	3.06	0.48	0.59	0.88
FCV-KNOB-1168RSP-08-02	1/2" Tube	1/8 - 27	150 PSI	3.24	0.61	0.43	0.75
FCV-KNOB-1168RSP-08-04	1/2" Tube	1/4 - 18	150 PSI	3.36	0.61	0.43	0.75
FCV-KNOB-1168RSP-08-06	1/2" Tube	3/8 - 18	150 PSI	3.40	0.61	0.47	0.75
FCV-KNOB-1168RSP-08-08	1/2" Tube	1/2 - 14	150 PSI	3.54	0.61	0.59	0.88

\* REVERSE Flow: The Male Pipe Swivel is the INLET.

## FCV-KNOB-3325SP

MPX x MPX - Polymer



Part No.	Male Pipe Swivel	Male Pipe Swivel	Pressure	Length	Height	Assembly	MPX Hex
FCV-KNOB-3325SP-02-02	1/8 - 27	1/8 - 27	150 PSI	2.56	0.41	0.32	0.50
FCV-KNOB-3325SP-04-04	1/4 - 18	1/4 - 18	150 PSI	2.98	0.47	0.43	0.56
FCV-KNOB-3325SP-06-06	3/8 - 18	3/8 - 18	150 PSI	3.33	0.48	0.47	0.69
FCV-KNOB-3325SP-08-08	1/2 - 14	1/2 - 14	150 PSI	4.12	0.61	0.59	0.88

# Polymer Flow Control Valves (with Knobs)

## FCV-KNOB-1169SP-BI

PTC x MPX 90° - Bi-Flow - Polymer



Part No.	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	Hex
FCV-KNOB-1169SP-BI-02-00	1/8" Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.56
FCV-KNOB-1169SP-BI-02-02	1/8" Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-KNOB-1169SP-BI-25-00	5/32" Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.56
FCV-KNOB-1169SP-BI-25-02	5/32" Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-KNOB-1169SP-BI-03-00	3/16" Tube	10-32 unf	150 PSI	0.89	0.36	0.16	0.56
FCV-KNOB-1169SP-BI-03-02	3/16" Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-KNOB-1169SP-BI-03-04	3/16" Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56
FCV-KNOB-1169SP-BI-03-06	3/16" Tube	3/8 - 18	150 PSI	1.07	0.61	0.47	0.75
FCV-KNOB-1169SP-BI-04-00	1/4" Tube	10-32 unf	150 PSI	0.89	0.36	0.16	0.56
FCV-KNOB-1169SP-BI-04-02	1/4" Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-KNOB-1169SP-BI-04-04	1/4" Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56
FCV-KNOB-1169SP-BI-04-06	1/4" Tube	3/8 - 18	150 PSI	1.07	0.61	0.47	0.75
FCV-KNOB-1169SP-BI-05-02	5/16" Tube	1/8 - 27	150 PSI	0.97	0.47	0.32	0.50
FCV-KNOB-1169SP-BI-05-04	5/16" Tube	1/4 - 18	150 PSI	1.06	0.47	0.43	0.56
FCV-KNOB-1169SP-BI-05-06	5/16" Tube	3/8 - 18	150 PSI	1.13	0.61	0.47	0.75
FCV-KNOB-1169SP-BI-05-08	5/16" Tube	1/2 - 14	150 PSI	1.20	0.69	0.59	1.00
FCV-KNOB-1169SP-BI-06-04	3/8" Tube	1/4 - 18	150 PSI	1.22	0.47	0.43	0.56
FCV-KNOB-1169SP-BI-06-06	3/8" Tube	3/8 - 18	150 PSI	1.22	0.61	0.47	0.75
FCV-KNOB-1169SP-BI-06-08	3/8" Tube	1/2 - 14	150 PSI	1.34	0.69	0.59	1.00
FCV-KNOB-1169SP-BI-08-06	1/2" Tube	3/8 - 18	150 PSI	1.31	0.61	0.47	0.75
FCV-KNOB-1169SP-BI-08-08	1/2" Tube	1/2 - 14	150 PSI	1.39	0.69	0.59	1.00

## FCV-KNOB-1169SP-IN

PTC x MPX 90° - Flow IN - Polymer



Part No.	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	Hex
FCV-KNOB-1169SP-IN-02-00	1/8" Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.56
FCV-KNOB-1169SP-IN-02-02	1/8" Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-KNOB-1169SP-IN-25-00	5/32" Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.56
FCV-KNOB-1169SP-IN-25-02	5/32" Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-KNOB-1169SP-IN-03-00	3/16" Tube	10-32 unf	150 PSI	0.89	0.36	0.16	0.56
FCV-KNOB-1169SP-IN-03-02	3/16" Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-KNOB-1169SP-IN-03-04	3/16" Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56
FCV-KNOB-1169SP-IN-03-06	3/16" Tube	3/8 - 18	150 PSI	1.07	0.61	0.47	0.75
FCV-KNOB-1169SP-IN-04-00	1/4" Tube	10-32 unf	150 PSI	0.89	0.36	0.16	1.00
FCV-KNOB-1169SP-IN-04-02	1/4" Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-KNOB-1169SP-IN-04-04	1/4" Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56

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## FCV-KNOB-1169SP-IN

PTC x MPX 90° - Flow IN - Polymer

Part No.	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	Hex
FCV-KNOB-1169SP-IN-04-06	1/4" Tube	3/8 - 18	150 PSI	1.07	0.61	0.47	0.75
FCV-KNOB-1169SP-IN-05-02	5/16" Tube	1/8 - 27	150 PSI	0.97	0.47	0.32	0.50
FCV-KNOB-1169SP-IN-05-04	5/16" Tube	1/4 - 18	150 PSI	1.06	0.47	0.43	0.56
FCV-KNOB-1169SP-IN-05-06	5/16" Tube	3/8 - 18	150 PSI	1.13	0.61	0.47	0.75
FCV-KNOB-1169SP-IN-05-08	5/16" Tube	1/2 - 14	150 PSI	1.20	0.69	0.59	1.00
FCV-KNOB-1169SP-IN-06-04	3/8" Tube	1/4 - 18	150 PSI	1.22	0.47	0.43	0.56
FCV-KNOB-1169SP-IN-06-06	3/8" Tube	3/8 - 18	150 PSI	1.22	0.61	0.47	0.75
FCV-KNOB-1169SP-IN-06-08	3/8" Tube	1/2 - 14	150 PSI	1.34	0.69	0.59	1.00
FCV-KNOB-1169SP-IN-08-06	1/2" Tube	3/8 - 18	150 PSI	1.31	0.61	0.47	0.75
FCV-KNOB-1169SP-IN-08-08	1/2" Tube	1/2 - 14	150 PSI	1.39	0.69	0.59	1.00

## FCV-KNOB-1169SP-OUT

PTC x MPX 90° - Flow OUT - Polymer



Part No.	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	Hex
FCV-KNOB-1169SP-OUT-02-00	1/8" Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.56
FCV-KNOB-1169SP-OUT-02-02	1/8"Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-KNOB-1169SP-OUT-25-00	5/32"Tube	10-32 unf	150 PSI	0.78	0.36	0.16	0.56
FCV-KNOB-1169SP-OUT-25-02	5/32"Tube	1/8 - 27	150 PSI	0.86	0.47	0.32	0.50
FCV-KNOB-1169SP-OUT-03-00	3/16"Tube	10-32 unf	150 PSI	0.89	0.36	0.16	0.56
FCV-KNOB-1169SP-OUT-03-02	3/16"Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-KNOB-1169SP-OUT-03-04	3/16"Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56
FCV-KNOB-1169SP-OUT-03-06	3/16"Tube	3/8 - 18	150 PSI	1.07	0.61	0.47	0.75
FCV-KNOB-1169SP-OUT-04-00	1/4"Tube	10-32 unf	150 PSI	0.89	0.36	0.16	1.00
FCV-KNOB-1169SP-OUT-04-02	1/4"Tube	1/8 - 27	150 PSI	0.91	0.47	0.32	0.50
FCV-KNOB-1169SP-OUT-04-04	1/4"Tube	1/4 - 18	150 PSI	1.00	0.47	0.43	0.56
FCV-KNOB-1169SP-OUT-04-06	1/4"Tube	3/8 - 18	150 PSI	1.07	0.61	0.47	0.75
FCV-KNOB-1169SP-OUT-05-02	5/16"Tube	1/8 - 27	150 PSI	0.97	0.47	0.32	0.50
FCV-KNOB-1169SP-OUT-05-04	5/16"Tube	1/4 - 18	150 PSI	1.06	0.47	0.43	0.56
FCV-KNOB-1169SP-OUT-05-06	5/16"Tube	3/8 - 18	150 PSI	1.13	0.61	0.47	0.75
FCV-KNOB-1169SP-OUT-05-08	5/16"Tube	1/2 - 14	150 PSI	1.20	0.69	0.59	1.00
FCV-KNOB-1169SP-OUT-06-04	3/8"Tube	1/4 - 18	150 PSI	1.22	0.47	0.43	0.56
FCV-KNOB-1169SP-OUT-06-06	3/8"Tube	3/8 - 18	150 PSI	1.22	0.61	0.47	0.75
FCV-KNOB-1169SP-OUT-06-08	3/8"Tube	1/2 - 14	150 PSI	1.34	0.69	0.59	1.00
FCV-KNOB-1169SP-OUT-08-06	1/2"Tube	3/8 - 18	150 PSI	1.31	0.61	0.47	0.75
FCV-KNOB-1169SP-OUT-08-08	1/2"Tube	1/2 - 14	150 PSI	1.39	0.69	0.59	1.00

## Features:

- Good for Cold Water, Oil, and Gas
- NON-Rising Stem
- Solid Wedge Gate
- Cast Brass Body
- Cast Iron Hand Wheel
- Buna-N Gland Packing
- Good for Diesel Fuel
- Female Pipe Threads
- Thread Ends to ANSI B1.20.1
- NOT Lead-Free Compliant
- Temperature  
-0° to +150° F (-18° to +65° C)

## Gate Valve

### GV-30202

FP x FP - Brass

Part No.	Female Pipe	Female Pipe	WOG	Length	Height	Handle Dia.
GV-30202-04	1/4 - 18	1/4 - 18	200 PSI	1.65	2.75	2.09
GV-30202-06	3/8 - 18	3/8 - 18	200 PSI	1.62	2.76	2.13
GV-30202-08	1/2 - 14	1/2 - 14	200 PSI	1.69	2.84	2.13
GV-30202-12	3/4 - 14	3/4 - 14	200 PSI	1.85	3.31	2.13
GV-30202-16	1 - 11 1/2	1 - 11 1/2	200 PSI	2.17	3.94	2.52
GV-30202-20	1 1/4 - 11 1/2	1 1/4 - 11 1/2	200 PSI	2.40	4.57	2.75
GV-30202-24	1 1/2 - 11 1/2	1 1/2 - 11 1/2	200 PSI	2.52	4.84	3.07
GV-30202-32	2 - 11 1/2	2 - 11 1/2	200 PSI	2.83	5.90	3.54
GV-30202-40	2 1/2 - 8	2 1/2 - 8	200 PSI	3.51	7.33	4.14
GV-30202-48	3 - 8	3 - 8	200 PSI	3.98	8.75	5.12
GV-30202-64	4 - 8	4 - 8	200 PSI	4.57	10.17	6.78



## Features:

- Good for Air, Water, Gas, and Fluids
- For Automotive and Industrial Applications
- Brass Body and Handle
- Use With Copper, Aluminum, Steel, and Plastic Tubing
- Universal Lubricant Suitable for Most Common Fluids
- NOT for Gasoline, Natural Gas, LPG, Nuclear, or Aircraft Applications
- 360° Handle Rotation

## Ground Plug Valves

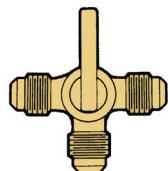
### GPV-42

MS x MS - Brass



### GPV-44

MS x MS x MS - Brass



Part No.	Male SAE	Male SAE	Pressure
GPV-42-04-04	7/16 - 20	7/16 - 20	30 PSI
GPV-42-05-05	1/2 - 20	1/2 - 20	30 PSI
GPV-42-06-06	5/8 - 18	5/8 - 18	30 PSI
GPV-42-08-08 *	3/4 - 16	3/4 - 16	30 PSI
GPV-42-10-10 *	7/8 - 14	7/8 - 14	30 PSI

Part No.	Male SAE	Male SAE	Pressure
GPV-44-04-04-04	7/16 - 20	7/16 - 20	30 PSI
GPV-44-05-05-05	1/2 - 20	1/2 - 20	30 PSI
GPV-44-06-06-06	5/8 - 18	5/8 - 18	30 PSI

\* Approved for AGA, LPG and Natural Gas Applications.  
[airoyalcompany.net](http://airoyalcompany.net)

Airoyal Company

866-247-6645

# Category

# Ground Plug Valves

## GPV-46

MS x FP - Brass



### Part No.

### Male SAE

### Female Pipe

### Pressure

GPV-46-06-08

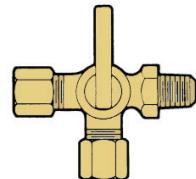
5/8 - 18

1/2 - 14

30 PSI

## GPV-71

CP x MP x CP - Brass



### Part No.

### Compression

### Male Pipe

### Pressure

GPV-71-04-02-04

7/16 - 24

1/8 - 27

30 PSI

GPV-71-05-02-05

1/2 - 24

1/8 - 27

30 PSI

GPV-71-05-04-05

1/2 - 24

1/4 - 18

30 PSI

## GPV-48

MS x MP - Brass



### Part No.

### Male SAE

### Male SAE

### Pressure

GPV-48-04-02

7/16 - 20

1/8 - 27

30 PSI

GPV-48-04-04

7/16 - 20

1/4 - 18

30 PSI

GPV-48-05-02

1/2 - 20

1/8 - 27

30 PSI

GPV-48-05-04

1/2 - 20

1/4 - 18

30 PSI

GPV-48-06-04

5/8 - 18

1/4 - 18

30 PSI

GPV-48-08-06

3/4 - 16

3/8 - 18

30 PSI

## GPV-3200

FP x MP - Brass



### Part No.

### Female Pipe

### Male Pipe

### Pressure

GPV-3200-02-02

1/8 - 27

1/8 - 27

30 PSI

GPV-3200-04-04

1/4 - 18

1/4 - 18

30 PSI

GPV-3200-06-06

3/8 - 18

3/8 - 18

30 PSI

GPV-3200-08-08

1/2 - 14

1/2 - 14

30 PSI

## GPV-62

CP x CP - Brass



### Part No.

### Compression

### Compression

### Pressure

GPV-62-04-04

7/16 - 24

7/16 - 24

30 PSI

GPV-62-06-06

9/16 - 24

9/16 - 24

30 PSI

## GPV-3300

FP x FP - Brass



### Part No.

### Female Pipe

### Female Pipe

### Pressure

GPV-3300-02-02

1/8 - 27

1/8 - 27

30 PSI

GPV-3300-04-04

1/4 - 18

1/4 - 18

30 PSI

GPV-3300-06-06 \*

3/8 - 18

3/8 - 18

30 PSI

GPV-3300-08-08

1/2 - 14

1/2 - 14

80 PSI

## GPV-68

CP x MP - Brass



### Part No.

### Compression

### Male Pipe

### Pressure

GPV-68-04-02

7/16 - 24

1/8 - 27

30 PSI

GPV-68-04-04

7/16 - 24

1/4 - 18

30 PSI

GPV-68-06-04 \*

9/16 - 24

1/4 - 18

30 PSI

\*Approved for AGA, LPG and Natural Gas Applications.

## GPV-3325

MP x MP - Brass



### Part No.

### Male Pipe

### Male Pipe

### Pressure

GPV-3325-02-02

1/8 - 27

1/8 - 27

30 PSI

GPV-3325-04-04

1/4 - 18

1/4 - 18

30 PSI

GPV-3325-06-06

3/8 - 18

3/8 - 18

30 PSI

GPV-3325-08-08

1/2 - 14

1/2 - 14

80 PSI

**Inline Filter****Features:**

- Nickel Plated Brass Body
- Buna / Viton® Seal

- 1-Way Flow is Indicated by the Word "IN"
- NOT Lead-Free Compliant

- Temperature  
-0° to +160° F (-18° to +71° C)

**IF-1162N**

PTC x PTC - Nickel Plated Brass



Part No.	Push-To-Connect	Push-To-Connect	Pressure	Length	Large Hex	Small Hex
IF-1162N-04-04	1/4" Tube	1/4" Tube	150 PSI	2.58	0.75	0.51
IF-1162N-06-06	3/8" Tube	3/8" Tube	150 PSI	2.83	0.75	0.67

**Quick Exhaust Valve****Features:**

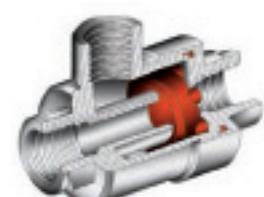
- Nickel Plated Brass Body
- Buna / Polyurethane Piston
- Nylon Cap Seal

- Female NPTF Pipe Threads
- NOT Lead-Free Compliant

- Temperature  
-0° to +160° F (-18° to +71° C)

**QEVT-3700N**

FP x FP x FP - Nickel Plated Brass



WARNING: This valve exhausts into the atmosphere - Do NOT use toxic, corrosive, or flammable media.

## Features:

- Good For Hydraulic-Pneumatic Instrumentation Systems
- For Automotive and Industrial Applications
- Brass Body and Steel Handle

- Use With Copper, Aluminum, Steel, and Plastic Tubing
- Metal-To-Metal Seat
- Fine Thread Adjusts Easy and Holds Flow Setting

- NOT for Natural Gas, LPG, Nuclear, or Aircraft Applications
- Temperature  
-40° to + 250° F (-40° to + 121° C)

**NV-42**

MS x MS - Brass



**NV-62**

CP x CP - Brass



**NV-48**

MS x MP - Brass



**NV-68**

CP x MP - Brass



**NV-49**

MS x MP 90° - Brass



**NV-69**

CP x MP 90° - Brass



Part No.

Male SAE

Male Pipe

Pressure

NV-42-04-04

7/16 - 20

7/16 - 20

150 PSI

NV-42-06-06

5/8 - 18

5/8 - 18

150 PSI

Part No.

Male SAE

Male Pipe

Pressure

NV-48-04-02

7/16 - 20

1/8 - 27

150 PSI

NV-48-04-04

7/16 - 20

1/4 - 18

150 PSI

NV-48-05-02

1/2 - 20

1/8 - 27

150 PSI

NV-48-05-04

1/2 - 20

1/4 - 18

150 PSI

NV-48-06-04

5/8 - 18

1/4 - 18

150 PSI

Part No.

Male SAE

Male Pipe

Pressure

NV-62-03-03

3/8 - 24

3/8 - 24

150 PSI

NV-62-04-04

7/16 - 24

7/16 - 24

150 PSI

NV-62-05-05

1/2 - 24

1/2 - 24

150 PSI

NV-62-06-06

9/16 - 24

9/16 - 24

150 PSI

# **Needle Valves**

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## **NV-3200**

FP x MP - Brass



## **NV-3300**

FP x FP - Brass



## **NV-3325**

MP x MP - Brass



## **NV-62-LF**

CP x CP - LEAD-FREE Brass



## **NV-69-LF**

CP x MP 90° - LEAD-FREE Brass



Part No.	Compression	Male Pipe	Pressure
NV-69-04-02-LF	7/16 - 24	1/8 - 27	150 PSI

## Features:

- Good for Compressed Air
- Polymer Body
- Convenient Mounting Holes
- Nickel Plated Brass Threads
- Pre-Applied Teflon® NPT Thread

## Regulating Valves

- Temperature  
-32° to +140° F (-35° to +60° C)

### RV-1162P

PTC x PTC - Polymer



Part No.	Push-To-Connect	Push-To-Connect	Pressure	Length	Height
RV-1162P-04-04	1/8" Tube	1/8" Tube	150 PSI	2.01	1.59
RV-1162P-05-04	5/16" Tube	1/4" Tube	150 PSI	2.02	1.59
RV-1162P-05-05	5/16" Tube	5/16" Tube	150 PSI	2.03	1.59
RV-1162P-06-06	3/8" Tube	3/8" Tube	150 PSI	2.45	1.75
RV-1162P-08-06	1/2" Tube	3/8" Tube	150 PSI	2.48	1.75
RV-1162P-08-08	1/2" Tube	1/2" Tube	150 PSI	2.50	1.75

### RV-1168SP

PTC x MPX - Polymer



Part No.	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	MPX Hex
RV-1168SP-04-02	1/8" Tube	1/8 - 27	150 PSI	2.30	1.59	0.30	0.56
RV-1168SP-04-04	1/4" Tube	1/4 - 18	150 PSI	2.42	1.59	0.35	0.56
RV-1168SP-04-06	1/4" Tube	3/8 - 18	150 PSI	2.44	1.59	0.43	0.69
RV-1168SP-05-02	5/16" Tube	1/8 - 27	150 PSI	2.32	1.59	0.30	0.56
RV-1168SP-05-04	5/16" Tube	1/4 - 18	150 PSI	2.36	1.59	0.35	0.56
RV-1168SP-05-06	5/16" Tube	3/8 - 18	150 PSI	2.45	1.59	0.43	0.69
RV-1168SP-06-04	3/8" Tube	1/4 - 18	150 PSI	2.86	1.75	0.35	0.69
RV-1168SP-06-06	3/8" Tube	3/8 - 18	150 PSI	2.92	1.75	0.43	0.69
RV-1168SP-08-06	1/2" Tube	3/8 - 18	150 PSI	2.95	1.75	0.43	0.88
RV-1168SP-08-08	1/2" Tube	1/2 - 14	150 PSI	3.08	1.75	0.47	0.88

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# Regulating Valves

## RV-1168RSP\*

REVERSE PTC x MPX INLET - Polymer



Part No.	INLET						
	Push-To-Connect	Male Pipe Swivel	Pressure	Length	Height	Assembly	MPX Hex
RV-1168RSP-04-02	1/4" Tube	1/8 - 27	150 PSI	2.30	1.59	0.30	0.56
RV-1168RSP-04-04	1/4" Tube	1/4 - 18	150 PSI	2.42	1.59	0.35	0.56
RV-1168RSP-04-06	1/4" Tube	3/8 - 18	150 PSI	2.44	1.59	0.43	0.69
RV-1168RSP-05-02	5/16" Tube	1/8 - 27	150 PSI	2.32	1.59	0.30	0.56
RV-1168RSP-05-04	5/16" Tube	1/4 - 18	150 PSI	2.36	1.59	0.35	0.56
RV-1168RSP-05-06	5/16" Tube	3/8 - 18	150 PSI	2.45	1.59	0.43	0.69
RV-1168RSP-06-04	3/8" Tube	1/4 - 18	150 PSI	2.86	1.75	0.35	0.70
RV-1168RSP-06-06	3/8" Tube	3/8 - 18	150 PSI	2.92	1.75	0.43	0.69
RV-1168RSP-08-06	1/2" Tube	3/8 - 18	150 PSI	2.95	1.75	0.43	0.88
RV-1168RSP-08-08	1/2" Tube	1/2 - 14	150 PSI	3.08	1.75	0.47	0.88

\* REVERSE Flow: The Male Pipe Swivel is the INLET.

## RV-9000SP

BSPX x BSPX - Polymer



Part No.	Male BSPT Swivel	Male BSPT Swivel	Pressure	Length	Height	Assembly	MPX Hex
RV-9000SP-02-02	1/8 - 28	1/8 - 28	150 PSI	2.56	1.59	0.30	14 mm
RV-9000SP-04-02	1/4 - 19	1/8 - 28	150 PSI	2.68	1.59	0.35	14 mm
RV-9000SP-04-04	1/4 - 19	1/4 - 19	150 PSI	2.68	1.59	0.35	14 mm
RV-9000SP-06-04	3/8 - 19	1/4 - 19	150 PSI	3.21	1.75	0.43	17 mm
RV-9000SP-06-06	3/8 - 19	3/8 - 19	150 PSI	3.31	1.75	0.43	17 mm
RV-9000SP-08-06	1/2 - 14	3/8 - 19	150 PSI	3.39	1.75	0.51	21 mm
RV-9000SP-08-08	1/2 - 14	1/2 - 14	150 PSI	3.46	1.75	0.51	21 mm

## RV-3325SP

MPX x MPX - Polymer



Part No.	Male Pipe Swivel	Male Pipe Swivel	Pressure	Length	Height	Assembly	MPX Hex
RV-3325SP-02-02	1/8 - 27	1/8 - 27	150 PSI	2.60	1.59	0.32	0.56
RV-3325SP-04-02	1/4 - 18	1/8 - 27	150 PSI	2.72	1.59	0.43	0.56
RV-3325SP-04-04	1/4 - 18	1/4 - 18	150 PSI	2.83	1.59	0.43	0.56
RV-3325SP-06-04	3/8 - 18	1/4 - 18	150 PSI	3.27	1.75	0.47	0.69
RV-3325SP-06-06	3/8 - 18	3/8 - 18	150 PSI	3.39	1.75	0.47	0.69
RV-3325SP-08-06	1/2 - 14	3/8 - 18	150 PSI	3.52	1.75	0.59	0.88
RV-3325SP-08-08	1/2 - 14	1/2 - 14	150 PSI	3.66	1.75	0.59	0.88

## **Solid Bottom Valves**

### **Features:**

- Good for Water, Fuel Oil, Gas, Air, and LP Gas
- Brass Body
- Steel "Pointer" Lever Handle
- Solid Bottom, Spring Loaded Top
- Neoprene O-Ring Seal Prevents Leakage To/From the Atmosphere
- Packed with NON-Drying Synthetic Grease
- Quick 90° On/Off Operation With a 360° Rotation

- Use With Copper, Aluminum, Steel, and Plastic Tubing

### **SBV-3200**

FP x MP - Brass



### **SBV-3700**

FP x FP x FP - 3-Way - Brass



### **SBV-3300**

FP x FP - Brass



Part No.	Female Pipe	Male Pipe	Pressure
SBV-3200-02-02	1/8 - 27	1/8 - 27	30 PSI
SBV-3200-04-04	1/4 - 18	1/4 - 18	30 PSI

Part No.	Female Pipe	Female Pipe	Pressure
SBV-3700-04-04-04	1/4 - 18	1/4 - 18	30 PSI
SBV-3700-06-06-06	3/8 - 18	3/8 - 18	30 PSI

- Handle Clicks at Each 90° Increment
- Greaseless Non-Lubricated Design
- Relubrication NOT Required
- Panel Mount Holes
- NOT for LP Gas
- Temperature  
-40° to +180° F (-40° to +82° C)

# **Swing Check Valve**

## **Swing Check Valve**

### **Features:**

- Good for Water, Oil, and Gas Systems
- Residential and Commercial Applications
- Class 125

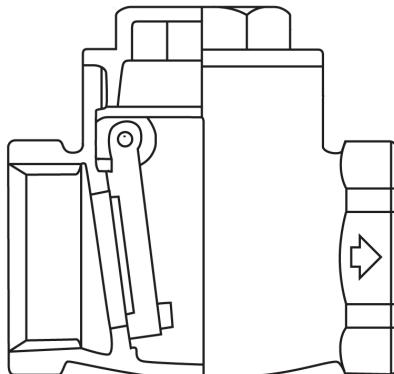
- Arrow Indicates 1-Way Flow
- Cast Brass Body and Cap
- Forged Brass Disc

- Brass Hinge Pin and Screw
- Female Pipe Threads
- Thread Ends to ANSI B1.20.1

### **SCV-3300H**

FP x FP - Horizontal Type - Brass

Part No.	Female Pipe	Female Pipe	WOG	Length	Height
SCV-3300H-08-08	1/2 - 14	1/2 - 14	200 PSI	2.13	1.54
SCV-3300H-12-12	3/4 - 14	3/4 - 14	200 PSI	2.33	1.62
SCV-3300H-16-16	1 - 11 1/2	1 - 11 1/2	200 PSI	2.72	1.77
SCV-3300H-20-20	1 1/4 - 11 1/2	1 1/4 - 11 1/2	200 PSI	3.11	2.01
SCV-3300H-24-24	1 1/2 - 11 1/2	1 1/2 - 11 1/2	200 PSI	3.51	2.25
SCV-3300H-32-32	2 - 11 1/2	2 - 11 1/2	200 PSI	4.30	2.68
SCV-3300H-40-40	2 1/2 - 8	2 1/2 - 8	200 PSI	5.32	3.35
SCV-3300H-48-48	3 - 8	3 - 8	200 PSI	6.30	3.86
SCV-3300H-64-64	4 - 8	4 - 8	200 PSI	7.49	4.53



**Features:****Slide Valve**

- Chrome Plated Brass Body
- Steel Snap Ring
- Arrow Indicates 1-Way Flow
- Aluminum Sleeve
- Female NPTF Pipe Threads
- Temperature
- Buna-N Seal
- NOT Lead-Free Compliant
- $-0^\circ$  to  $+160^\circ$  F ( $-18^\circ$  to  $+71^\circ$  C)

**SV-3300N**

FP x FP - Nickel Plated Brass

Part No.	Female Pipe	Female Pipe	Pressure	Length	Sleeve Dia.	Hex
SV-3300N-02-02	1/8 - 27	1/8 - 27	150 PSI	1.89	0.98	0.55
SV-3300N-04-04	1/4 - 18	1/4 - 18	150 PSI	2.28	1.18	0.67
SV-3300N-06-06	3/8 - 18	3/8 - 18	150 PSI	2.76	1.38	0.87
SV-3300N-08-08	1/2 - 14	1/2 - 14	150 PSI	3.15	1.58	1.02

ON: Pressure flows from the inlet through a series of radial holes in the body to the air circuit.

OFF: Moving the sleeve to the closed position directs air from the circuit and exhausts it into the atmosphere.

WARNING: This valve exhausts into the atmosphere - Do NOT use toxic, corrosive, or flammable media.



## Truck Valves

### Features:

- Designed for the Trucking Industry
- For Fuel and Coolant Lines
- Forged Brass Body
- Steel "Wheel Type" Handle
- Buna-N O-Ring Seal
- NOT for Natural Gas, LPG, Nuclear, or Aircraft Applications

### TV-49

MS x MP 90° - Brass



### TV-3400

FP x MP 90° - Brass



#### Part No.

#### Male SAE

#### Male Pipe

#### Pressure

TV-49-06-06	5/8 - 18	3/8 - 18	200 PSI
TV-49-06-08	5/8 - 18	1/2 - 14	200 PSI
TV-49-08-06	3/4 - 16	3/8 - 18	200 PSI
TV-49-08-08	3/4 - 16	1/2 - 14	200 PSI
TV-49-10-08	7/8 - 14	1/2 - 14	200 PSI

### TV-49R \*

REVERSE - MS x MP 90° - Brass



\* REVERSE Threads: Threads are in reverse order.

### TV-16890

Beaded Barb x MP 90° - Brass



#### Part No.

#### Male SAE

#### Male Pipe

#### Pressure

TV-49R-08-08	3/4 - 16	1/2 - 14	200 PSI
TV-49R-10-08	7/8 - 14	1/2 - 14	200 PSI

#### Part No.

#### Hose Barb

#### Male Pipe

#### Pressure

TV-16890-06-06	3/8" Barb	3/8 - 18	200 PSI
TV-16890-10-06	5/8" Barb	3/8 - 18	200 PSI
TV-16890-10-08	5/8" Barb	1/2 - 14	200 PSI
TV-16890-12-06	3/4" Barb	3/8 - 18	200 PSI
TV-16890-12-08	3/4" Barb	1/2 - 14	200 PSI