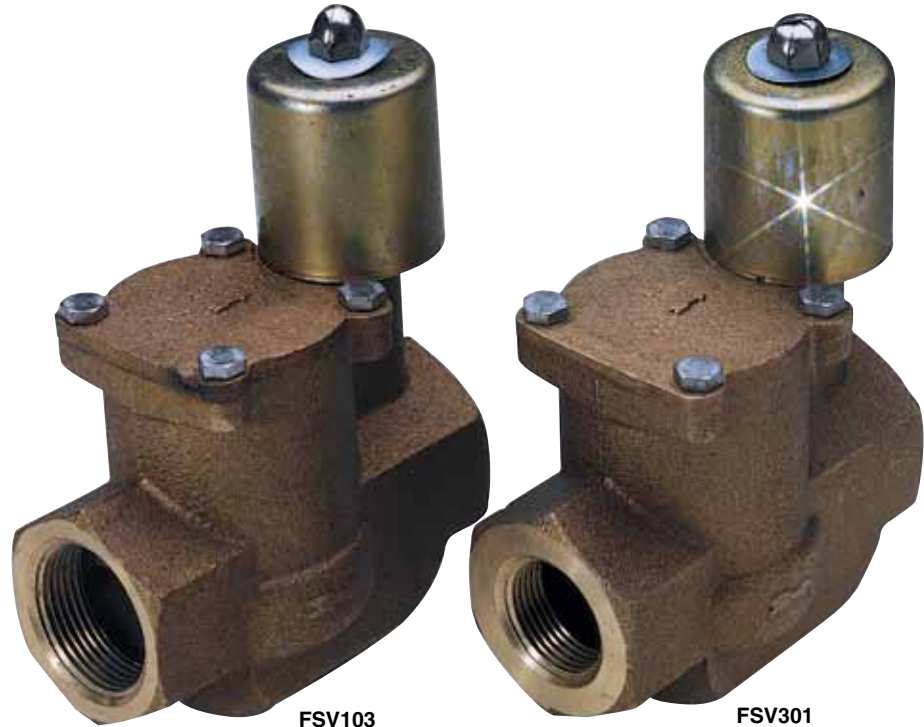


# PILOT-OPERATED SOLENOID VALVES FOR STEAM AND WATER

## FSV100 and FSV300 Series



- ✓ Two-Way Normally Closed
- ✓ Installed in Horizontal Piping with Solenoid in Vertical Position



FSV103

FSV301

Both models shown actual size.

Two-way solenoid valves cover most industrial laboratory applications. A two-way valve controls the flow of fluid through a single passage. It has two ports, an inlet and an outlet. A normally closed valve does not pass fluid unless it is energized.

### SPECIFICATIONS

#### FSV100 Series

**Medium:** Water (FSV100)

**Minimum Pressure:** 5 psi

**Maximum Pressure:** 150 psi

**Temperature Range:** 0 to 90°C (32 to 195°F)

**Power:** 23 W, 120 Vac coils

**Wetted Parts:** Bronze, PTFE

**CV Values:** See flow capacity charts

#### FSV300 Series

**Medium:** Steam

**Maximum Temperature:** 185°C (365°F)

**Temperature Range:** 0 to 185°C (32 to 365°F)

**Minimum Pressure:** 5 psi

**Maximum Pressure:** 150 psi

**Power Required:** 23 W, 120 Vac coils

**Wetted Parts:** Bronze, EPDM/AFLAS®

### To Order

Model No.	NPT	Orifice	Seal	Response Time (Sec)		Tolerance
				Open	Close	
<b>FSV100 Series for Water</b>						
FSV101	3/8"	0.439"	Buna N/EPDM	0.85	0.015	±0.001
FSV102	1/2"	0.439"	Buna N/EPDM	0.85	0.015	±0.001
FSV103	3/4"	0.849"	Buna N/EPDM	0.6-4.5	0.1-0.25	±0.005
FSV104	1.0"	1.250"	Buna N/EPDM	0.6-4.5	0.1-0.25	+0.002
FSV105	1.25"	1.250"	Buna N/EPDM	0.8-5.8	0.2-0.5	±0.002
FSV106	1.50"	1.500"	Buna N/EPDM	1.5-9	0.2-0.4	±0.002
FSV107	2.00"	2.000"	Buna N/EPDM	1.5-9.5	0.25-0.45	±0.002
<b>FSV300 Series for Steam Applications</b>						
FSV301	3/8"	0.439"	EPDM/AFLAS	0.85	0.015	±0.001
FSV302	1/2"	0.439"	EPDM/AFLAS	0.85	0.015	±0.001
FSV303	3/4"	0.849"	EPDM/AFLAS	0.6-4.5	0.1-0.25	±0.005
FSV304	1.00"	1.250"	EPDM/AFLAS	0.6-4.5	0.1-0.25	+0.002
FSV305	1.25"	1.250"	EPDM/AFLAS	0.8-5.8	0.2-0.5	±0.002
FSV306	1.50"	1.500"	EPDM/AFLAS	1.5-9	0.2-0.4	±0.002
FSV307	2.00"	2.000"	EPDM/AFLAS	1.5-9.5	0.25-0.45	±0.002

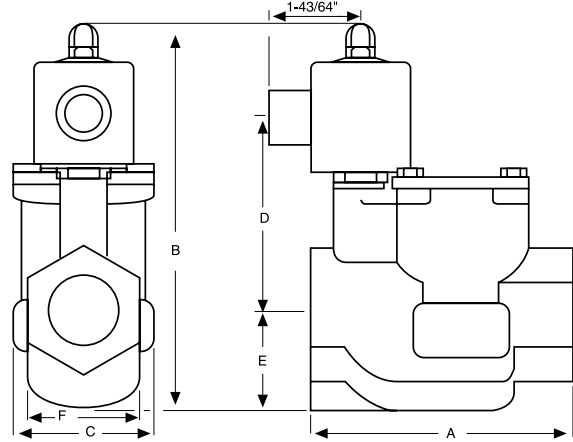
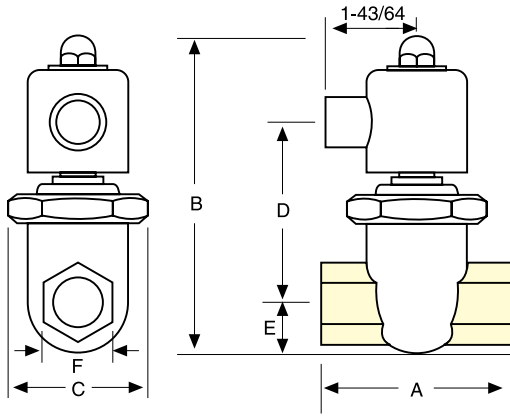
Comes complete with operator's manual.

**Ordering Examples:** FSV103, valve for water with 3/4" NPT fitting, 0.849" orifice.  
FSV301, valve for steam with 3/8" NPT fitting, 0.439" orifice.

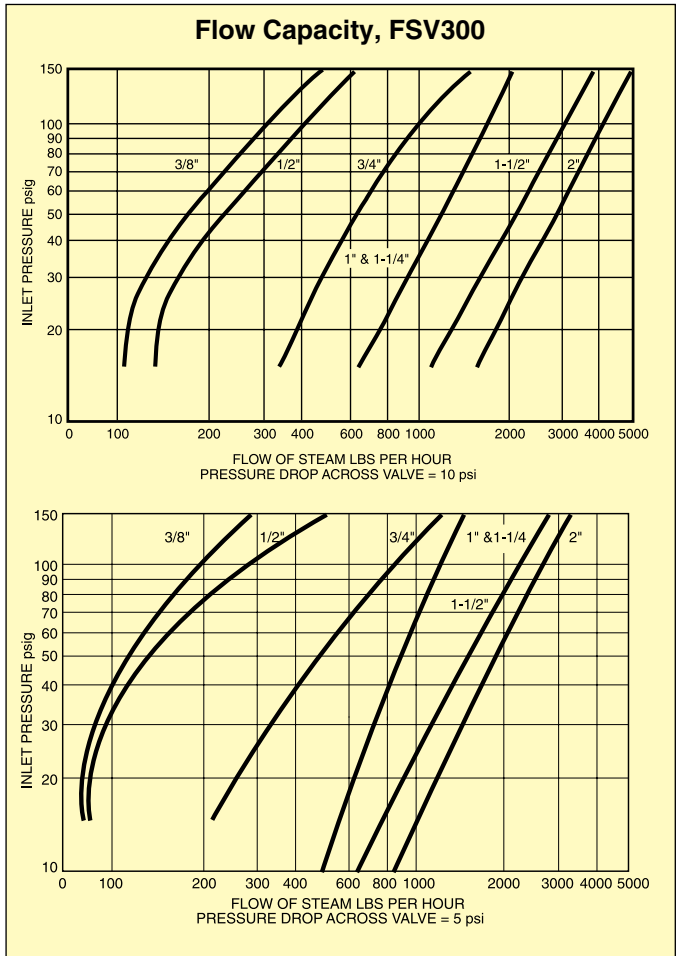
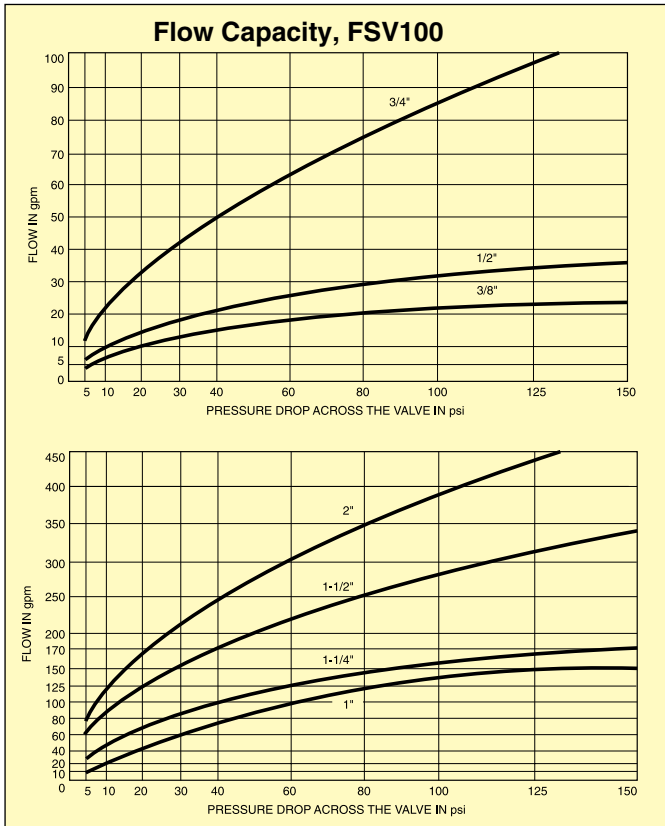
3/8, 1/2, and 3/4"

Dimensions: mm (inch)

1, 1 1/4, 1 1/2, and 2"



Pipe Size (Valve Size)						
Dimensions: mm (inch)	9.5 (3/8)	12.7 (1/2)	19.1 (3/4)	25.4 & 31.8 (1 & 1 1/4)	38.1 (1 1/2)	50.8 (2)
<b>A</b>	64.30 (2 17/32)	67.47 (2 21/32)	95.25 (3 3/4)	122.24 (4 13/16)	138.11 (5 7/16)	153.20 (6 1/32)
<b>B</b>	131.23 (5 1/6)	128.59 (5 1/16)	153.20 (6 1/32)	153.20 (6 31/32)	186.53 (7 11/32)	207.96 (8 3/16)
<b>C</b>	47.23 (1 55/64)	47.23 (1 55/64)	71.44 (2 13/16)	69.85 (2 3/4)	79.38 (3 1/8)	95.25 (3 3/4)
<b>D</b>	72.23 (2 27/32)	72.23 (2 27/32)	88.90 (3 1/2)	92.08 (3 5/8)	109.54 (4 5/16)	118.27 (4 21/32)
<b>E</b>	29.99 (1 1/16)	29.99 (1 1/16)	25.40 (1)	44.45 (1 3/4)	38.10 (1 1/2)	49.21 (1 15/16)
<b>F</b>	33.34 (1 5/16)	27.78 (1 3/32)	34.93 (1 3/8)	52.39 (2 1/16)	60.33 (2 3/8)	73.03 (2 7/8)
<b>Pipe Size</b>	9.53 (3/8)	12.70 (1/2)	19.05 (3/4)	25.40 & 31.75 (1 & 1 1/4)	38.10 (1 1/2)	50.80 (2)
<b>Cv Flow Factor</b>	2.3	3.3	7.5	9.8 & 15.0	28.0	39.0



FSV100 Series requires minimum 5 psi pressure differential for reliable operation.  
 Must be installed in horizontal piping with solenoid in vertical position.  
 Valve should be sized to flow requirement not pipe size.  
 Average closing time: 3/8 to 3/4", 1 to 2", 2 to 5 sec.