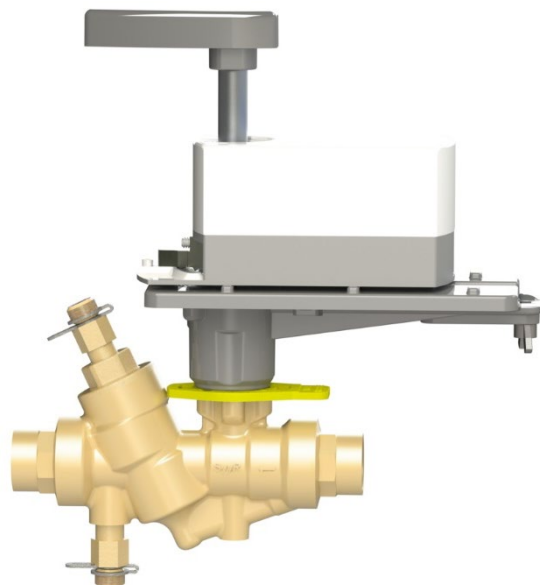
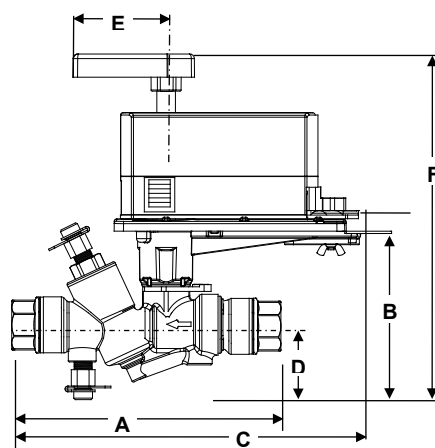




SPECIFICATIONS

Static Pressure/Temp:	360 PSI / -4°F to 250°F (600 WOG)
Service:	Chilled water, hot water, up to 50% Glycol
Flow Optimizer:	Glass Filled Polymer
Body Material:	Forged Brass ASTM B283-06
End Connections:	Brass
Stem:	Brass (Optional Stainless Steel)
Stem Seals:	EPDM O-Rings
Ball Valve:	Stainless Steel ball
Field Repairable Stem:	Dual Teflon seals and EPDM O-ring
Ball Seals:	Teflon Seals with EPDM O-Rings
Angle of Rotation:	0-90°
Accessories:	Combination P/T Test Valve and Manual Air Vent (CPTA) Standard
Leakage Rate:	ANSI Class IV, .01% of Cv



DIMENSIONS & WEIGHTS (NOMINAL)

All dimensions are for planning purposes only and may change without notice.

SIZE	A LENGTH ¹	B HEIGHT	C LENGTH ¹	D HEIGHT	E HANDLE	F HEIGHT ²	WEIGHT
1/2"	5.7	5.3	8.6	2.0	2.5	10.0	2.5
3/4"	5.7		8.6				
1"	5.9		8.7				
1"L	9.5	6.0	11.3	2.5		10.5	7.1
1-1/4"	9.0		11.0				
1-1/2"	8.8		10.8				
1-1/2"L	10.8	6.8	12.6	3.0		11.5	13.7
2"	11.0		13.0				
2-1/2"	11.5		13.3				
3"	12.8		14.4				

NOTES:

¹ Length measured with fixed end FNPT; SWT end connection may be longer.

² Height is measured with 5.3" long shaft. If Neptronic, KMC Controls, or Siemens actuators are used deduct 1.3" from the height.

HIGH LIMIT FLOW RATES (+/-5%)

To correctly size your valve, select a high limit flow rate that is equal to or greater than the required flow rate.

SIZE	MODEL NO.	PSID RANGE	HEAD LOSS IN FEET ³	CLOSE-OFF PSID	GPM
1/2", 3/4", 1"	SPIV0	3-35	6.9	100	1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0
3/4", 1"		6-35	13.8		8.0, 9.0, 10.0, 11.0, 15.0
1"L, 1-1/4", 1-1/2"	SPIV1	4-50	9.2		10, 15, 20
		5-50	11.5		25, 30
1-1/4", 1-1/2"		6.5-50	14.9		35
1-1/2"L, 2", 2-1/2", 3"	SPIV2	4-58	9.2		25, 30, 35
		6-58	13.8		40, 45, 50
		7-58	16.1		55, 60, 65, 70, 75, 80, 85
		11-58	25.3		95
2", 2-1/2", 3"					

MODEL NUMBER SELECTION

S

P

I

V

X

Select a Housing Size: 0=1/2"-1",
1=1"L-1-1/2", 2=1-1/2"L-3"

Select Ball and Stem Package (P=SS
Ball/Brass Stem. S=SS Ball and Stem)

FIXED END		
Valve	Female Threaded	Female Sweat
SPIV0	1/2"=E, 3/4"=F, 1"=G	1/2"=L, 3/4"=M, 1"=N
SPIV1	1"=G, 1-1/4"=P, 1-1/2"=Q	1"=N, 1-1/4"=K, 1-1/2"=W
SPIV2	1-1/2"=Q, 2"=R, 2-1/2"=S, 3"=T	1-1/2"=W ⁴ , 2"=Y

T= Optional
3" x 3"
Aluminum
Hanging ID Tag

Extension Kit (0=No,
1=1-1/2" 2=2")

SIZE	MODEL NO.	FLOWS
1/2", 3/4", 1"	SPIV0	1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0
3/4", 1"		8.0, 9.0, 10.0, 11.0, 15.0
1"L, 1-1/4", 1-1/2"	SPIV1	10, 15, 20
1-1/4", 1-1/2"		25, 30
		35
1-1/2"L, 2", 2-1/2", 3"	SPIV2	25, 30, 35
		40, 45, 50
		55, 60, 65, 70, 75, 80, 85
		95
2", 2-1/2", 3"		

Insert Actuator Model Number. If Actuator is supplied by others, insert "1" for Neptronic, "2" for Johnson Controls, "3" for Schneider Electric, "4" for Honeywell, "5" for Siemens, "6" for Belimo, "7" for KMC Controls

NOTES:

³ Head loss in feet is required for pump head calculations. (1 PSI = 2.307 feet of water).

⁴ Sweat fixed end not available for this size. A fixed end with sweat adapter can be used as a substitute.

This specification © 2025 Griswold Controls

5/25

F-5509G

1700 Barranca Parkway, Irvine, CA 92606
(949) 559-6000 Fax (949) 559-6088
www.GriswoldControls.com

ACTUATOR SELECTION



The Griswold Controls Universal Mounting Plate on all 1/2" to 3" valves is compatible with the following actuators besides the actuators detailed in the following tables. Contact the factory if you have a different model number not listed below.⁵

Honeywell: ML6161D2006, ML6174D2009, ML7161A2008, ML7174A2001, ML6185A1000, ML6185C1008, ML8185A1008, ML8185C1006, ML7285A1007, ML7285C1005, MN6105, MN7510, MN7520, MN6110

Schneider Electric: MF40-6083, MA40-7043, MA40-7043-501, MA40-7040, MA40-7040-501, MF40-7043, MF40-7043-501, MS40-7043, MS40-7043-501

Johnson Controls: M9106-AGA2, M9106-AGC2, M9106-GGA2, M9106-GGC2, M9206-AGA2, M9206-AGC2, M9206-GGA2, M9206-GGC2, M9104-AGA-2S, M9208-GGA-2, M9208-GGA-3

Belimo: LM24, LM24S, LF24, LF24S, LF120, LF120S, LF24-3, LF24-3S, LM24SR, LF24SR, LF24SRS, LMB24-SR-T, LMB24-3-T

Neptronic: BBT-24, BBT-1000, BBT-1060, BBT-1021, BBT-1080, BBTHV-1100, BBTHV-1160, BBTHV-1120, BBTHV-1180, BBM2000A, BBM2060A

SUITABLE FOR 1/2" TO 3" VALVES

SIEMENS	GDE131.1P	GDE161.1P	GMA121.1P	GMA131.1P	GMA161.1P
Power Supply	24Vac	24Vac	24Vac/dc	24Vac/dc	24Vac/dc
Torque	44 in-lb	44 in-lb	62 in-lb	62 in-lb	62 in-lb
Control Signal: On/Off			•		
Control Signal: 3 Point	•			•	
Control Signal: Modulating 0–10 VDC		•			•
Speed	90 sec	90 sec	90 sec	90 sec	90 sec
Fail Safe (Spring Return)			•	•	•
Operating Power	3.3 VA	3.3 VA	5 VA	5 VA	5 VA
Mounting Components	9656-250	9656-250	9656-250	9656-250	9656-250
Weight	1.1 pounds	1.1 pounds	3.0 pounds	3.0 pounds	3.0 pounds
Wiring Diagram	Power Supply Where 6 is CW and 7 is CCW	INPUT OUTPUT 1 2	SUPPLY 2 NEUTRAL	CW CCW 1 2 SUPPLY NEUTRAL	INPUT OUTPUT 1 2

NOTES:

⁵ Do not use actuators capable of torques higher than 90 in-lbs.

This specification © 2025 Griswold Controls

1700 Barranca Parkway, Irvine, CA 92606
(949) 559-6000 Fax (949) 559-6088
www.GriswoldControls.com

5/25
F-5509G

SUITABLE FOR 1/2" TO 1" VALVES ONLY

KMC CONTROLS	MEP-4201	MEP-4255	MEP-4252
Power Supply	24 Vac/dc	100-240 Vac	24 Vac/dc
Torque	25 in-lb	25 in-lb	25 in-lb
Control Signal: On/Off	•	•	
Control Signal: 3 Point	•		
Control Signal:			Modulating 2-10VDC
Speed	<35 sec	<25 sec	<50 sec
Fail Safe (Capacitor)		•	•
Operating Power	6 VA	6 VA	6 VA
Mounting Components	9656-248	9656-248	9656-248
Weight	1.1 pounds	1.5 pounds	1.5 pounds
Wiring Diagram	See actuator cover for wiring diagram		

SUITABLE FOR 1/2" TO 3" VALVES

KMC CONTROLS	MEP-4001	MEP-4002	MEP-4554	MEP-4555	MEP-4501	MEP-4552 (formerly MEP-5372)	MEP-4551 (formerly MEP-5373)	MCP- 36315000
Power Supply	24 Vac	24 Vac	24 Vac/dc	100-240 Vac	24 Vac	24 Vac	24 Vac	Pneumatic
Torque	40 in-lb	40 in-lb	45 in-lb	45 in-lb	40 in-lb	45 in-lb	45 in-lb	59 in-lb
Control Signal: On/Off			•	•	•			
Control Signal: 3 Point	•				•		•	
Control Signal:		Modulating 2-10VDC				Modulating 2-10VDC		8-13 psi
Speed	90 sec	90 sec	<35 sec	<25 sec	<35 sec	50 sec	90 sec	
Fail Safe (Capacitor)			•	•		•	•	
Operating Power	2 VA	4 VA	6 VA	6 VA	6 VA	6 VA	6 VA	
Mounting Components	9656-250	9656-250	9656-248	9656-248	9656-248	9656-250	9656-250	9656-852
Weight	1.1 pounds	1.1 pounds	1.5 pounds	1.5 pounds	1.1 pounds	3.0 pounds	3.0 pounds	1.5 pounds
Wiring Diagram	See actuator cover for wiring diagram							