



Flanged DG Series Globe Valves – Submittal/Technical Data

Flanged Globe Valves 2-Way & 3-Way – 2-1/2" - 6"

Flanged DG Series Globe Valves provide stable and accurate control of both water, 50/50 water Glycol solutions and steam heat exchangers on fan coil units, VAV reheat coils, and air handling units up to 900 GPM. These globe valves feature rangeability of greater than 100:1 to provide precise control.

Two way standard trim valves provide an equal percentage flow characteristic for use on hot water and chilled water.

Two way stainless trim valves - recommended for steam applications, and 3-way mixing valves provide a linear flow characteristic.

All Flanged DG Series Globe Valves feature a cartridge style packing, which is easily replaceable while the valve is in line. Constant plug guiding and precision-machined metal to metal seating assures ANSI Class IV shutoff (.01%) which provides low leakage and energy conservation.

Technical Specifications - Flanged Globe Valve Body				
Service	Chilled/Hot Water		Steam (0 to 15 psi Max Inlet Pressure)	
	Chilled/Hot Water, 50/50 Glycol Solutions & Saturated Steam			
Size Range	2-1/2" - 6", 2-Way Normally Open, 3-Way Universal Mixing or Diverting		2-1/2" - 6", 2-Way Normally Open	
Available Cv's	63, 100, 160, 250, 400			
Media Temperature Range	20°F to 250°F (-7°C to 120°C)			
Max Inlet Temperature/Pressure	°F	psi	°F	psi
	-20° to 150°	200	250°	15
	200°	190		
	250°	175		
Maximum Recommended Differential Pressure	50 psi Water		15 psig Steam	
Valve Body Pressure Rating	ANSI Class 125			
Maximum Close-Off Pressure	Refer to Close-Off Charts			
Close-Off Ratings	According to ANSI/FCI 70-2			
Flow Characteristic	Equal Percentage for 2-Way valves with standard trim. Linear for 2-Way valves with Stainless Steel trim. 3-Way is equal percentage NC port, and linear for NO port.			
Stroke	2-1/2" and 3" – 3/4" (20 mm) 4", 5" and 6" – 1-1/2" (40 mm)			
Leakage Rate	Class IV (0.01% of Cv)			
Rangeability	> 100:1			
Seat Style	Flanged - Metal to metal			
Materials	Body	Cast iron ASTM A 126 Class B		
	Stem	Stainless Steel (ASTM A582 Type 303)		
	Valve Trim Required	Bronze	Stainless Steel (noted by SS in the valve P/N)	
	Packing	Double Ethylene propylene (EPDM) O-Rings		
Certifications	CRN - OC24303.5			
Warranty	5 Years limited from time of shipment.			

Note - Normally closed available upon request.

High temperature steam available upon request.

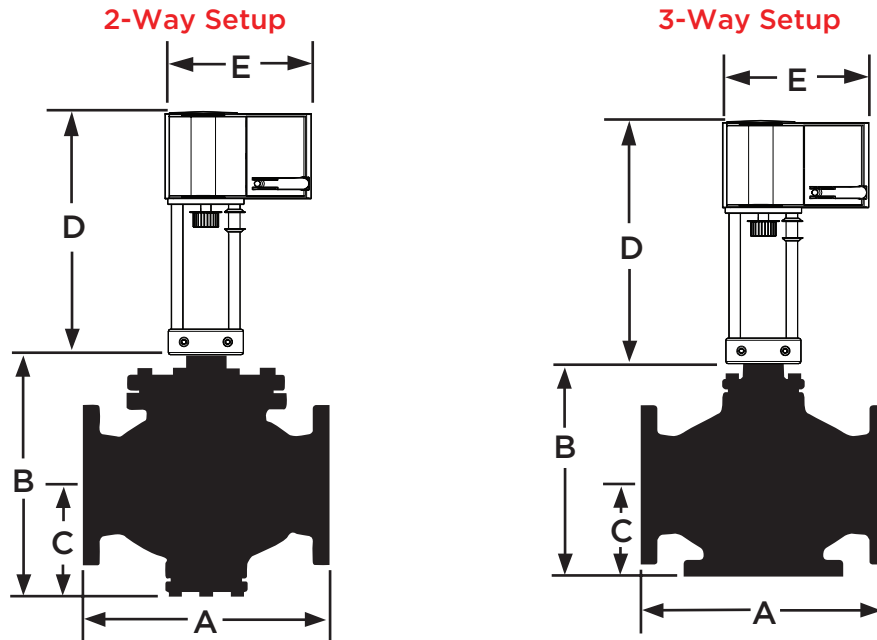
When the valve is used for diverting applications, the max DP is restricted to 90% of the max DP that is specified for the valve when it is used in a mixing application

Disclaimer - The performance specifications are nominal and conform to acceptable industry standards.

For application at conditions beyond these specifications, consult the local Bray office.

Bray, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

Flanged DG Series - 2 & 3-Way - GA(S) Series Actuator Dimensions



2-Way Dimensions for GA(S) Series Actuator with Flanged DG Valve												
Model Number	Size		Flow Coefficient		Stroke in.(mm)	A	B	C	D Actuator Height	E Actuator Width	Weight ¹	
	In.	mm	Cv	Kv							lbs.	kg.
DG250-2-63	2.5	65	63	54	3/4 (20)	10-7/8 (276)	11 (281)	4-7/8 (123)	11-3/8 (289)	9-1/16 (230)	60	27
DG3-2-100	3	80	100	85	3/4 (20)	11-3/4 (299)	12-1/4 (312)	5-5/16 (135)			76	34
DG4-2-160	4	100	160	137	1-1/2 (40)	13-7/8 (352)	13-9/16 (345)	6-5/16 (160)	12-5/16 (313)	9-1/16 (230)	124	56
DG5-2-250	5	125	250	214	1-1/2 (40)	15-3/4 (400)	15-3/16 (385)	7 (177)			155	70
DG6-2-400	6	150	400	340	1-1/2 (40)	17-3/4 (451)	16-3/4 (426)	7-7/8 (200)			212	96

¹ Weights are for Valve Only.
Add 3.94 in. for optional High Media Temperature Height Extender

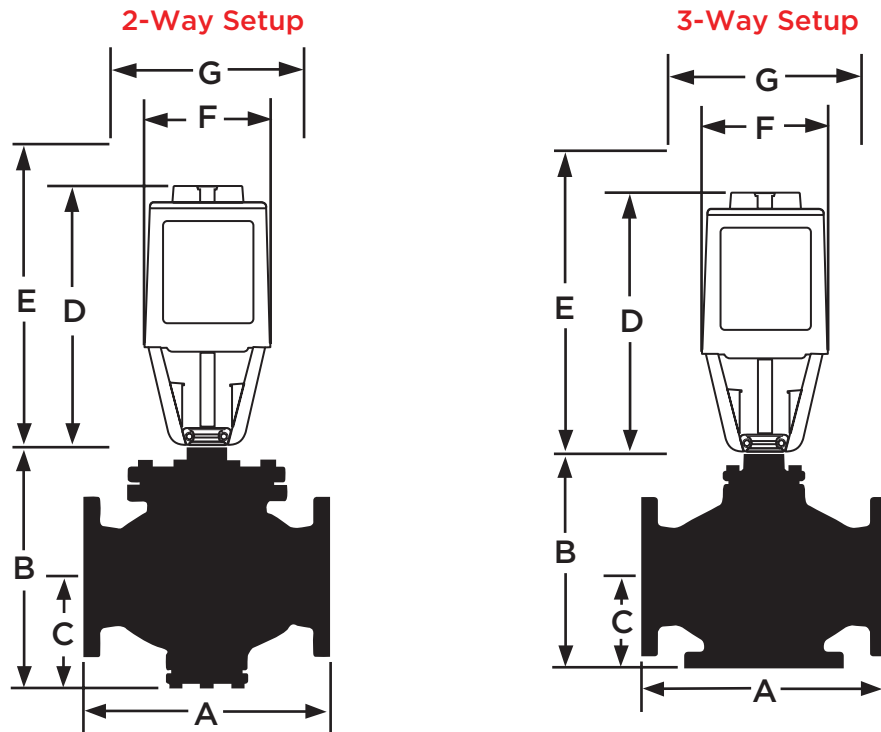
Non-Spring Return Actuator Weight 9.1 lb. (4.1 kg)
Spring Return Actuator Weight 12.3 lb. (5.6 kg)

3-Way Dimensions for GA(S) Series Actuator with Flanged DG Valve												
Model Number	Size		Flow Coefficient		Stroke in.(mm)	A	B	C	D Actuator Height	E Actuator Width	Weight ¹	
	In.	mm	Cv	Kv							lbs.	kg.
DG250-3-63	2.5	65	63	54	3/4 (20)	10-7/8 (276)	9-3/8 (239)	3-3/4 (95)	11-3/8 (289)	9-1/16 (230)	50	23
DG3-3-100	3	80	100	85	3/4 (20)	11-3/4 (299)	10-3/4 (272)	4-3/8 (111)			65	30
DG4-3-160	4	100	160	137	1-1/2 (40)	13-7/8 (352)	12-1/2 (317)	5-1/8 (132)	12-5/16 (313)	9-1/16 (230)	110	50
DG5-3-250	5	125	250	214	1-1/2 (40)	15-3/4 (400)	13-3/4 (349)	5-3/4 (146)			136	62
DG6-3-400	6	150	400	340	1-1/2 (40)	17-3/4 (451)	15-1/2 (393)	6-5/8 (167)			141	64

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Add 3.94 in. for optional High Media Temperature Height Extender

Non-Spring Return Actuator Weight 9.1 lb. (4.1 kg)
Spring Return Actuator Weight 12.3 lb. (5.6 kg)

Flanged DG Series - 2 & 3-Way - VAL Series Actuator Dimensions



2-Way Dimensions for VAL Series Actuator with Flanged DG Valve														
Model Number	Size		Flow Coefficient		Stroke in.(mm)	A	B	C	D Actuator Height	E Service Height	F Actuator Width	G Service Width	Weight ¹	
	In.	mm	Cv	Kv									lbs.	kg.
DG250-2-63	2.5	65	63	54	3/4 (20)	10-7/8 (276)	11 (281)	4-7/8 (123)	14-3/4 (375)	22-3/4 (578)	8-15/16 (226)	25 (635)	60	27
DG3-2-100	3	80	100	85	3/4 (20)	11-3/4 (299)	12-1/4 (312)	5-5/16 (135)					76	34
DG4-2-160	4	100	160	137	1-1/2 (40)	13-7/8 (352)	13-9/16 (345)	6-5/16 (160)					124	56
DG5-2-250	5	125	250	214	1-1/2 (40)	15-3/4 (400)	15-3/16 (385)	7 (177)					155	70
DG6-2-400	6	150	400	340	1-1/2 (40)	17-3/4 (451)	16-3/4 (426)	7-7/8 (200)					212	96

¹ Weights are for Valve Only.

VAL-SRS07P Actuator Weight 18.9 lb. (8.6 kg)
VAL-SRS15P Actuator Weight 22.0 lb. (10.0 kg)

3-Way Dimensions for VAL Series Actuator with Flanged DG Valve														
Model Number	Size		Flow Coefficient		Stroke in.(mm)	A	B	C	D Actuator Height	E Service Height	F Actuator Width	G Service Width	Weight ¹	
	In.	mm	Cv	Kv									lbs.	kg.
DG250-3-63	2.5	65	63	54	3/4 (20)	10-7/8 (276)	9-3/8 (239)	3-3/4 (95)	14-3/4 (375)	22-3/4 (578)	8-15/16 (226)	25 (635)	50	23
DG3-3-100	3	80	100	85	3/4 (20)	11-3/4 (299)	10-3/4 (272)	4-3/8 (111)					65	30
DG4-3-160	4	100	160	137	1-1/2 (40)	13-7/8 (352)	12-1/2 (317)	5-1/8 (132)					110	50
DG5-3-250	5	125	250	214	1-1/2 (40)	15-3/4 (400)	13-3/4 (349)	5-3/4 (146)					136	62
DG6-3-400	6	150	400	340	1-1/2 (40)	17-3/4 (451)	15-1/2 (393)	6-5/8 (167)					141	64

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VAL-SRS07P Actuator Weight 18.9 lb. (8.6 kg)
VAL-SRS15P Actuator Weight 22.0 lb. (10.0 kg)