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## 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 rangability 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 Spe	cifications -	Flanged Globe Valve	Body								
Servi	ice	Chilled/H	ot Water	Steam (0 to 50 PSI	Max Inlet Pressure)						
Servi	ice	Chilled/Hot Water, 50/50 Glycol Solutions & Saturated Steam									
Size Range		2-1/2" - 6", 2-Way	• • •	2-1/2" - 6", 2-Way	/ Normally Open						
Available	o Cvis	3-Way Universal M	63, 100, 160	250, 400							
Media Tem			03, 100, 100	<del></del>							
Rang	•	20°F to 250°F (-7°C to 120°C)									
		°F	PSI	°F	PSI						
Max Ir Temperature		-20° to 150° 200° 250°	200 190 175	337°	50						
Maximum Rec Differential		25 PSI	Water	50 PSIG	Steam						
Valve E Pressure	•	ANSI Class 125									
Maximum C Pressi		Refer to Close-Off Charts									
Close-Off	Ratings	According to ANSI/FCI 70-2									
Flow Chara	acteristic	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.									
Stem	Lift	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)									
Rangea	bility	> 100:1									
Seat S	tyle	Flanged - Metal to metal									
	Body		Cast iron ASTN	1 A 126 Class B							
	Stem		Stainless Steel (AS	TM A582 Type 303)							
Materials	Valve Trim Required	Bro	nze	Stainless Steel (noted by SS in the valve P/N)							
	Packing		Double Ethylene prop	ylene (EPDM) O-Rings							
Certifica	ations		CRN - 00	C24303.5							
Warra	inty		5 Years limited from	m time of shipment.							

Note - Normally closed 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

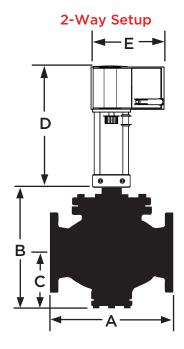
Disclaimer - The performance specifications are nominal and conform to acceptable industry standards.

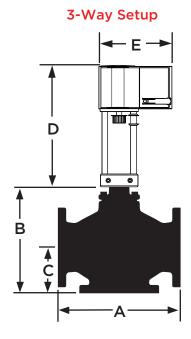
For application at conditions beyond these specifications, consult the local Bray office.

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	Size		Flow Coefficient		Stroke	A	В	С	D Actuator	E Actuator	Weight <sup>1</sup>	
Number	ln.	mm	Cv	Kv	in.(mm)				Height	Width	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	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)	(289)		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)	12-5/16 (313)		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

 $<sup>^{\</sup>rm 1}$  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)

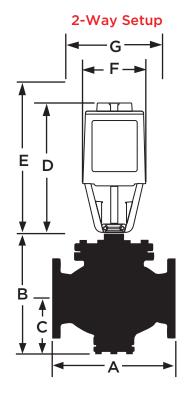
3-Way Dime	3-Way Dimensions for GA(S) Series Actuator with Flanged DG Valve												
Model	Size		Flow Coefficient		Stroke	Α	В	С	D Actuator	E Actuator	Weight <sup>1</sup>		
Number	ln.	mm	Cv	Kv	in.(mm)				Height	Width	lbs.	kg.	
DG250-3-63	2.5	65	63	54	3/4 (20)	10-7/8 (276)	9-3/8 (239)	3-3/4 (95)	11-3/8		50	23	
DG3-3-100	3	80	100	85	3/4 (20)	11-3/4 (299)	10-3/4 (272)	4-3/8 (111)	(289)	9-1/16 (230)	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)	12-5/16 (313)		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	

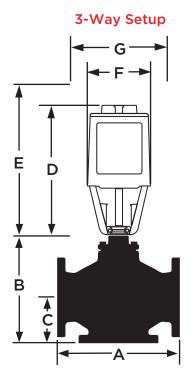
<sup>&</sup>lt;sup>1</sup> Weights are for Valve Only. Add 3.94 in. for optional High Media Temperature Height Extender

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



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





2-Way Dimensions for VAL Series Actuator with Flanged DG Valve														
Model	Si	Size		ow icient	Stroke	А	В	С	D Actuator	E Service	F Actuator	G Service	Weight <sup>1</sup>	
Number	ln.	mm	Cv	Kv	in.(mm)				Height	Height	Width	Width	lbs.	kg.
DG250-2-63	2.5	65	63	54	3/4 (20)	10-7/8 (276)	11 (281)	4-7/8 (123)			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)	14-3/4 (375)				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

<sup>&</sup>lt;sup>1</sup> 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	Si	Size		ow icient	Stroke	Α	В	С	D Actuator	E Service	F Actuator	G Service	Weight <sup>1</sup>	
Number	In. n	mm	Cv	Kv	in.(mm)				Height	Height	Width	Width	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)			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)	14-3/4 (375)	22-3/4 (578)			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

<sup>&</sup>lt;sup>1</sup> 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)

