G2…(S) 2-way Globe Valve, Bronze or Stainless Steel Trim

Application

This valve is typically used in Air Handling Units on heating or cooling coils and Fan Coil Unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV Box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Bronze and stainless steel trim valves can be used for steam applications, depending on actuator and close-off combinations.

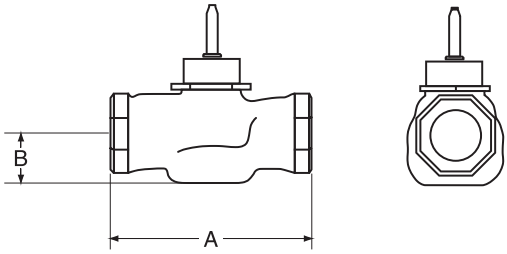
Valve Nominal Size			Type	Suitable Actuators		
C_v	Inches	DN [mm]	2-way NPT	Non-Spring	Spring	Electronic Fail- Safe
0.4	½	15	G212(S)	LV Series	LF Series	LVK Series
1.3	½	15	G213(S)			
2.2	½	15	G214(S)			
4.4	½	15	G215(S)			
5.5	¾	20	G219(S)			
7.5	¾	20	G220(S)			
10	1	25	G224(S)	SV Series	NF Series	SVK Series
14	1	25	G225(S)			
20	1¼	32	G232(S)		AF(X)	
28	1½	40	G240(S)			
40	2	50	G250(S)			

Technical Data

	G2	G2...S
Service	chilled or hot water, 60% glycol, steam	
Flow characteristic	equal percentage	linear
Action	stem up - open A to AB	
Sizes	½" to 2"	
End fitting	NPT female ends	
Materials		
Body	bronze	bronze
Seat	bronze	stainless steel
Stem	stainless steel	stainless steel
Plug	brass	stainless steel
Packing	spring loaded TFE	spring loaded TFE
Disc	composition (EPDM)	Teflon
ANSI class	ANSI 250 (up to 400 psi below 150°F)	
Leakage	ANSI class IV	
Max steam inlet	35 psi (241 kPa)	100 psi (689 kPa)
Media temperature		
Water	20°F to 250°F (-7°C to 120°C)	20°F to 300°F (-7°C to 149°C)
Maximum ΔP*		
Water	35 psi (241 kPa)	35 psi (241 kPa)
Steam	20 psi (138 kPa)	35 psi (241 kPa)
Rangeability	G2(S) 100:1	
Valve weights	G212(S), G213(S), G214(S), G215(S) 2 lbs G219(S), G220(S) 3 lbs G224(S), G225(S), G232(S) 5.5 lbs G240(S), G250(S) 13 lbs	

*(50% or more open)

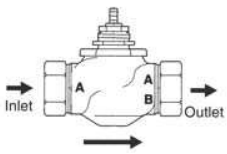
Dimensions



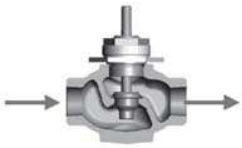
D031-2W

Valve Nominal Size			Dimensions (Inches [mm])	
Valve Body	Inches	DN [mm]	A	B
G212(S)-G215(S)	½"	15	3.06" [78]	1.06" [27]
G219(S)-G220(S)	¾"	20	3.62" [92]	1.06" [27]
G224(S)-G225(S)	1"	25	4.62" [117]	1.12" [29]
G232(S)	1¼	32	4.62" [117]	1.37" [35]
G240(S)	1½	40	5.37" [137]	1.50" [38]
G250(S)	2	50	6.12" [156]	1.56" [40]

G2...(S) 2-way Flow Patterns



Flow Direction



Stem Up - Open A to AB

Piping

The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. Please allow 12" for complete actuator/linkage removal. The G2(S) and G3(D) preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life. However, the assemblies can be mounted with the valve stem vertical or horizontal in relation to the pipe. The actuators should never be mounted underneath the valve, as condensation can build up and result in a failure of the actuators. Do not reverse flow direction.