

V5GV3W Series

3-way Globe Valve, PN16

Application

V5GV3W globe valve directly coupled with linear actuator ML7420, ML7421 and ML8824A are used to provide precise control for HVAC hydraulic systems applications.

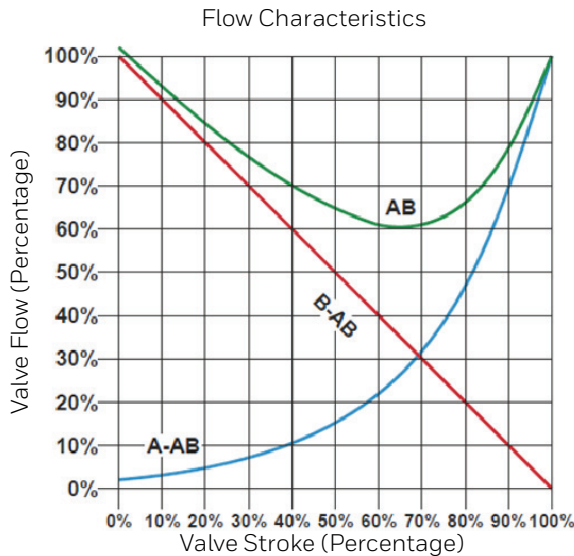
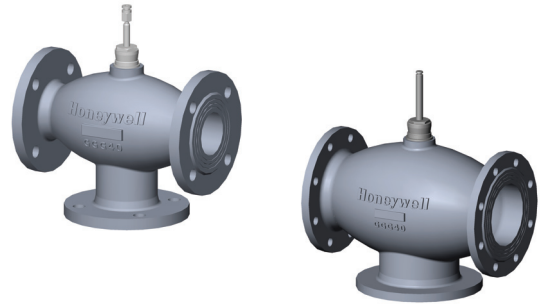


Fig. 1 Flow Characteristics

Features

- Ductile iron body with standard flanged connection
- Metal sealing of valve seat for long service life
- Accurate positioning of valve stem to ensure temperature control
- Easy mounting of being directly coupled with ML7420, ML7421 or ML8824A actuator without the need for stem connection

Technical Parameters

Basic Parameters

Action	Stem up to A-AB to close
Nominal pressure rating	PN16
Type of valve	Three-way with integrated flow
Flow characteristic	A-AB: Equal percentage
(See Fig. 1)	B-AB: Equal linear
Rangeability	50:1
Leakage rate	A-AB: $\leq 0.02\%$ of Kvs
	B-AB: $\leq 1\%$ of Kvs
Rated stroke	20mm (DN50...80)
	40mm (DN100...150)
Connection	Flanged per ISO 7005-2
Medium	Chilled/hot water
Medium temperature	-15...+130°C

Materials

Valve Body	Ductile iron GGG40
Valve seat	Stainless steel
Valve stem	Stainless steel
Packing	PTFE + Stainless steel spring

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Product Model

Product Model	Valve Size	Kvs
V5GV3W050F-E	DN50	40
V5GV3W065F-E	DN65	63
V5GV3W080F-E	DN80	100
V5GV3W100F-E	DN100	160
V5GV3W125F-E	DN125	250
V5GV3W150F-E	DN150	360

Installation Requirements

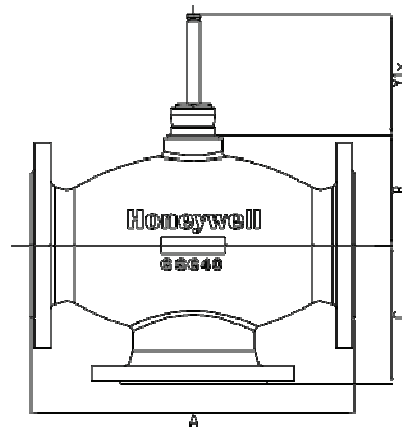
- Medium water must meet VD12035 requirements.
- Do not install valve with stem below the horizontal.
- Fluid flow must correspond with the arrow direction on the valve body.
- The installation of a strainer is strongly recommended.

Close-off Pressure Rating (kPa)

Actuators	Valves						
	Stroke	DN50	DN65	DN80	DN100	DN125	DN150
ML8824A0620	20mm	200	150	100	–	–	–
ML8824A1820	20mm	700	500	350	–	–	–
ML8824A1840	40mm	–	–	–	200	130	90

Dimensions (mm)

Valve Size	A	B	C	Y1x
DN50	230	71	125	87
DN65	290	88	145	87
DN80	310	105	155	87
DN100	350	119	150	131
DN125	400	134	175	131
DN150	480	154	200	131



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