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CATALOG KỸ THUẬT · JOHNSON CONTROLS

Van cầu inox VGA9000

van cầu mặt bích thân inox · DN65–DN150 · PN16

VGA9000 Johnson Controls – van cầu inox mặt bích DN65–DN150, Kvs 63–350, dùng cho nước, glycol, nước khử khoáng, có loại nhiệt độ thấp -25 °C, kèm VAP.

Mã: VGA9000 · Hãng: Johnson Controls · Hotline: 093 797 2339

dlk.com.vn/vga9000-johnson-controls-van-cau-inox.html



www.dlk.com.vn

VGA9000 Series Flanged Globe Valves & Actuators

Features

- DN65 to DN150 available
- Kvs 63 to 350 m³/h
- High-grade stainless steel for valve body
- Standard flange connection of ISO7005-2



2-way Flanged
VGA92xx Series



3-way Flanged
VGA98xx Series

Technical Data

Rated pressure	PN16
Flange connection	ISO7005-2
Media	Water, glycol solution (< 50%), deionized water
Temperature range	Normal temperature type: -10~130°C / Low temperature type: -25~80°C
Valve characteristics	DN65~80 equal percentage at full range
	DN100~150 equal percentage at 0~40%, modified equal percentage at 40~100%
	For 3-way bypass port, linear at all sizes and opening
Leakage rage	≤ 0.01% Kvs
Rangibility	>50:1

Note: When media temperature is below 2 °C, a stem heater is required. Please order "VGA-H1" for DN65 while "VGA-H2" for DN80 to DN150.

Material

Valve body	Stainless steel
Valve trim	Stainless steel
Valve stem	Stainless steel
Sealing structure	V model sealing gland + stainless steel spring self-compensation
Stem sealing	Normal temperature type: PTFE + VITON
	Low temperature type: PTFE + HNBR

Model List

Size	2-way		3-way mixing / diverting		Stroke (mm)	Kvs (m ³ /h) at control port	Kvs (m ³ /h) at bypass port (for 3-way only)
	Normal temperature type	Low temperature type	Normal temperature type	Low temperature type			
DN65	VGA9201GT-R	VGA9201GT-L	VGA9803GT-R	VGA9803GT-L	20	63	63
DN80	VGA9201HU-R	VGA9201HU-L	VGA9803HU-R	VGA9803HU-L	30	100	100
DN100	VGA9201JV-R	VGA9201JV-L	VGA9803JV-R	VGA9803JV-L	40	160	160
DN125	VGA9201NW-R	VGA9201NW-L	VGA9803NW-R	VGA9803NW-L	40	250	250
DN150	VGA9201PX-R	VGA9201PX-L	VGA9803PX-R	VGA9803PX-L	40	350	350

Selection Table

VGA9000 DN65-DN150 2-way Flanged Globe Valve with Electrical Actuators 			Non Spring Return	
			VAP1000L	VAP3000L
				
			Floating 0 (2) ~ 10 VDC 0 (4) ~ 20 mA	Floating 0 (2) ~ 10 VDC 0 (4) ~ 20 mA
Position Feedback				
0 (2) to 10 VDC or 0 (4) to 20 mA			■	■
Power Requirement				
24 VAC /VDC			■	■
220 VAC+/-15% 50/60 Hz				
Electrical Connections				
Screw terminal			■	■
DN	Kvs	2-way	Close-off pressure (kPa)	
DN65	63	VGA9201GT-R	1600	/
		VGA9201GT-L		
DN80	100	VGA9201HU-R	1600	/
		VGA9201HU-L		
DN100	160	VGA9201JV-R	/	1600
		VGA9201JV-L		
DN125	250	VGA9201NW-R	/	1600
		VGA9201NW-L		
DN150	350	VGA9201PX-R	/	1600
		VGA9201PX-L		
			VAP1000L-24-B	VAP3000L-24-B

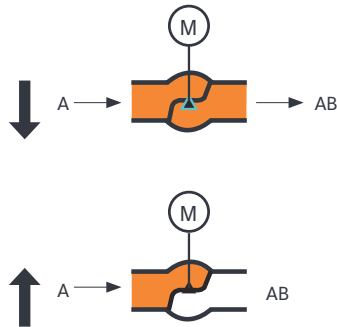
Globe Valve & Actuator

Selection Table

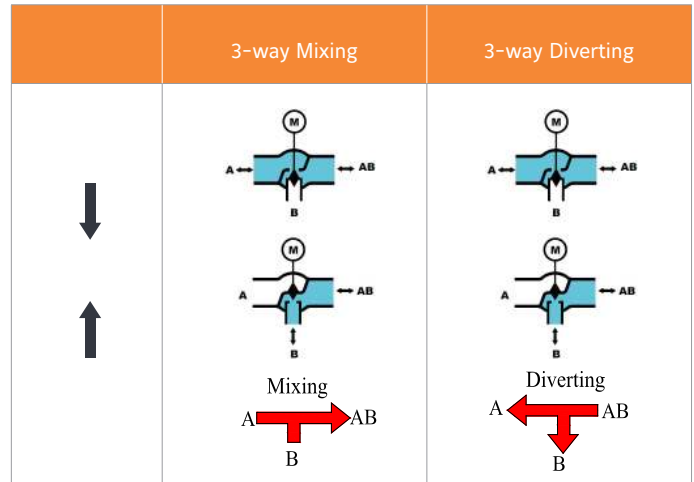
VGA9000 DN65-DN150 3-way Flanged Globe Valve with Electrical Actuators 			Non Spring Return	
			VAP3000L	
				
			Floating 0 (2) ~ 10 VDC 0 (4) ~ 20 mA	
Position Feedback				
0 (2) to 10 VDC or 0 (4) to 20 mA			■	
Power Supply				
24 VAC /VDC			■	
220 VAC+/-15% 50/60 Hz				
Electrical Connections				
Screw terminal			■	
DN	Kvs	3-way	Close-off pressure (kPa)	
			Mixing	Diverting
DN65	63	VGA9803GT-R	750	375
		VGA9803GT-L		
DN80	100	VGA9803HU-R	500	250
		VGA9803HU-L		
DN100	160	VGA9803JV-R	325	160
		VGA9803JV-L		
DN125	250	VGA9803NW-R	200	100
		VGA9803NW-L		
DN150	350	VGA9803PX-R	140	70
		VGA9803PX-L		
			VAP3000L-24-B	

Mechanical design

2-way VGA92xx



3-way VGA98xx



Flow characteristic

A - AB: DN65~DN80, equal percentage, see Figure1
 DN100~150, equal percentage @ 0-40%
 while modified equal percentage @40-100%,
 see Figure2

B - AB: Linear, see Figure3

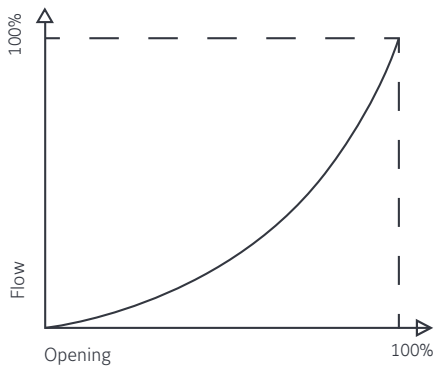


Figure 1

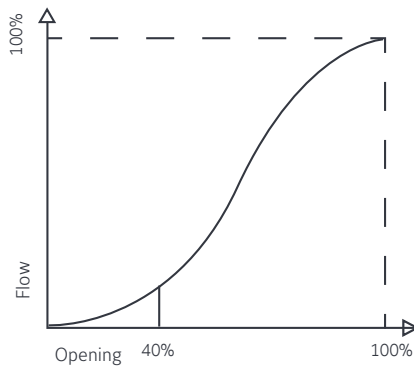


Figure 2

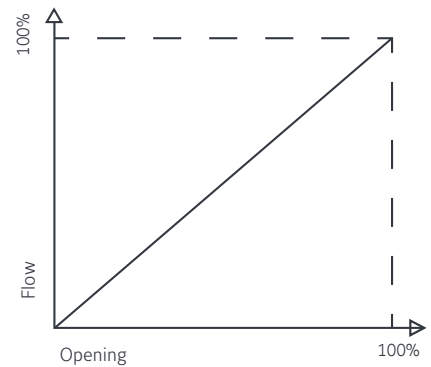
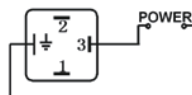


Figure 3

Accessories (Stem Heater)

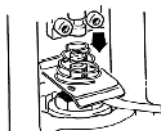


VGA-H1/H2 Stem Heater

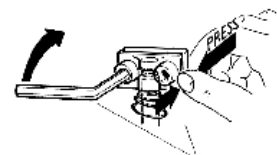
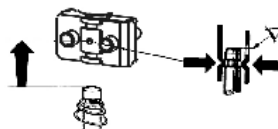


Wiring Diagram

Model	Stroke	Power Supply	Power Consumption	Heating Temperature
VGA-H1	20mm	24VAC/DC	15w	80~120°C
VGA-H2	30mm/40mm	24VAC/DC	15w	80~120°C

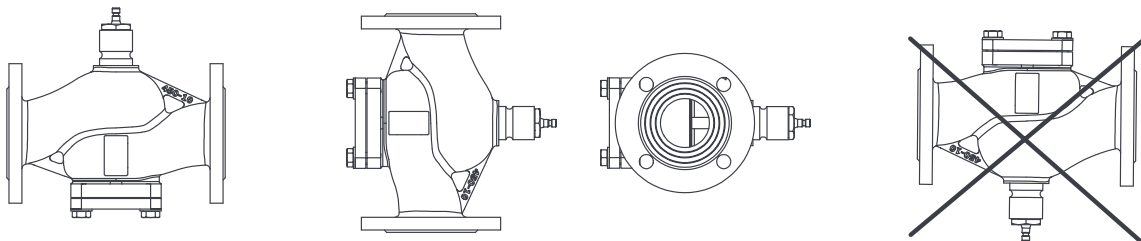


Note: the side with "24V 15W" shall be placed to face down



Globe Valve & Actuator

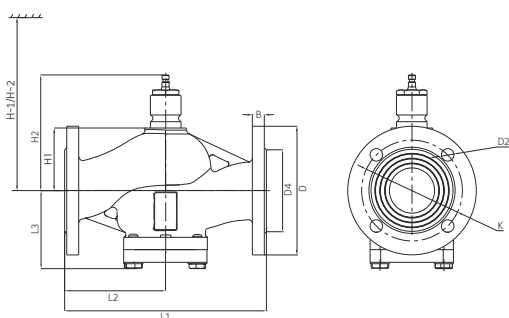
Installation



- The valves are to be installed by skilled personnel and in strict accordance with the installation instructions and local regulations. Johnson Controls assumes no responsibility for damages or injuries resulting from non-compliance with installation instructions or standard good practice when mounting, operating or maintaining the valve, even if not explicitly mentioned herein.
- The valve and the pipes must be free of dirt, welding beads, etc.
- The valves are designed for a fluid temperature range, flow direction, as well as for a maximum pressure, as shown in this installation instruction.
- There should be no mechanical tension in the pipe work when the valve is fitted.

Dimensions

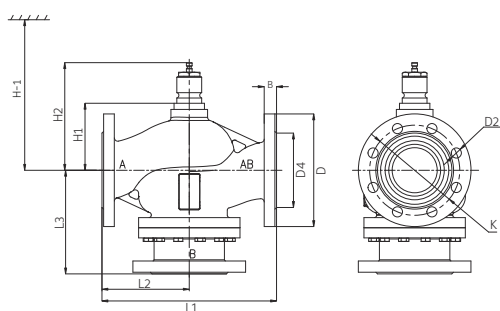
2-way VGA92xx



DN	B mm	D mm	D2 mm	D4 mm	K mm	L1 mm	L2 mm	L3 mm	H1 mm	H2 mm	Weight kg	H-1 mm	H-2 mm
65	20	185	4-19	118	145	290	145	104	70	146.5	15.2	345	/
80	22	200	8-19	132	160	310	155	120.5	77	153.5	20.1	352	/
100	23	220	8-19	156	180	350	175	135.5	93	169.5	29	/	378
125	24	250	8-19	184	210	400	200	155.5	118	194.5	37.5	/	403
150	25	285	8-23	211	240	480	240	170.5	138	291.5	53.3	/	423

Note: H-1 for 1000N (VAP1000L) Actuator, H-2 for 3000N (VAP3000L) Actuator

3-way VGA98xx



DN	B mm	D mm	D2 mm	D4 mm	K mm	L1 mm	L2 mm	L3 mm	H1 mm	H2 mm	Weight kg	H-1 mm
65	20	185	4-19	118	145	290	145	145	70	146.5	17.8	355
80	22	200	8-19	132	160	310	155	170.5	77	153.5	23.6	365
100	23	220	8-19	156	180	350	175	184	93	169.5	32.5	378
125	24	250	8-19	184	210	400	200	212.5	118	194.5	42	403
150	25	285	8-23	211	240	480	240	243.5	138	291.5	57.8	423

Note: H-1 for 3000N (VAP3000L) Actuator



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MST

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