

2-WAY INTEGRATED FLANGED CONTROL BALL VALVES

VG12W5XX-C



Application

The VG1000 series control ball valves are used for the water control of air treatment systems in ventilation and air conditioning units as well as heating system.

They are operated by remote mounted Non Spring Return actuators of Johnson Controls.

Ordering Codes

See tables of valve actuator assemblies

Features

- Stainless steel ball and stem assembly
- Amodel® flow characterizing disk
- Ethylene Propylene Diene Monomer (EPDM) double o-ring stem seal
- Graphite-Reinforced Polytetrafluoroethylene (PTFE) Seat



Assemblies of Valves with PROPORTIONAL ACTUATORS

Supply Voltage		24VAC/DC			
Torque		24Nm		32Nm	
Running time		125s		200s	
Control signal	VDC	0-10/2-10			
	mA	0-20/4-20			
Switches		-	2 x SPDT	-	2 x SPDT
Feedback	VDC	0-10/2-10			
Actuator code		M9124-GGA-2	M9124-GGC-2	M9132-GGA-2	M9132-GGC-2
Linkage code		M9000-619-C			

Ordering Codes

Valve code	Body size	Kvs	Valid combinations of valves, linkages and actuators			
VG12W5JU-C	DN100	100	■	■		
VG12W5JX-C		220	■	■		
VG12W5KW-C	DN125	180			■	■
VG12W5KY-C		340			■	■
VG12W5LX-C	DN150	220			■	■
VG12W5LZ-C		430			■	■

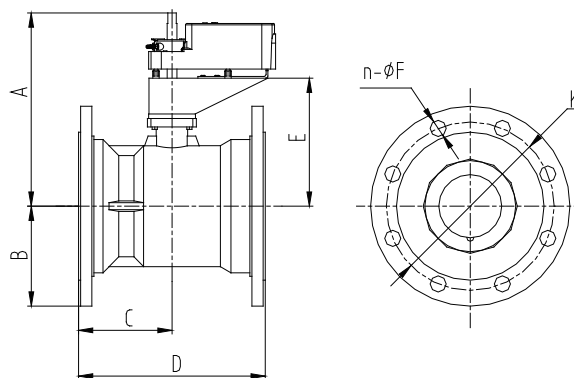
Assemblies of Valves with FLOATING and ON/OFF ACTUATORS

Supply Voltage	24VAC/DC		230VAC		24VAC/DC		230VAC	
Torque	24Nm				32Nm			
Running time	125s				140s			
Control signal	Floating and ON/OFF							
Switches	-	2 x SPDT	-	2 x SPDT	-	2 x SPDT	-	2 x SPDT
Feedback	-							
Actuator code	M9124-AGA-2	M9124-AGC-2	M9124-ADA-1N	M9124-ADC-1N	M9132-AGA-2	M9132-AGC-2	M9132-ADA-1N	M9132-ADC-1N
Linkage code	M9000-619-C							

Ordering Codes

Valve code	Body size	Kvs	Valid combinations of valves, linkages and actuators						
VG12W5JU-C	DN100	100	■	■	■	■			
VG12W5JX-C		220	■	■	■	■			
VG12W5KW-C	DN125	180					■	■	■
VG12W5KY-C		340					■	■	■
VG12W5LX-C	DN150	220					■	■	■
VG12W5LZ-C		430					■	■	■

NON-Spring Return M9124/M9132 Actuated VG12W5XX-C Flanged Ball Valve



Model	DN	A	B	C	D	E	n-φF	K	Screw
VG12W5Jx-C	DN100	251	110	114.5	229	160	8-φ 19	φ 180	M16
VG12W5Kx-C	DN125	272	125	127	254	171.5	8-φ 19	φ 210	M16
VG12W5Lx-C	DN150	283	142.5	133.5	267	182.5	8-φ 23	φ 240	M20

Technical Specifications

Product	VG12W5xx-C Series Flanged Ball Valve	
Service	Hot Water, Chilled Water, 50/50 Glycol Solutions, Saturated Steam	
Valve Fluid Temperature Limits	-10-121°C (water/solution), 121°C (saturated steam)	
Rated Pressure	PN16	
Maximum Close-off Pressure	689kPa (DN100/125), 400kPa (DN150)	
Maximum Recommended Operating Pressure Drop	207kPa for quiet service	
Rangeability	Greater than 200:1	
Minimum Ambient Operating Temperature	-20°C M9124/M9132 Series Non-Spring Return Actuators	
Maximum Ambient Operating Temperature (Limited by the Actuator)	50°C M9124/M9132 Series Non-Spring Return Actuators	
Leakage	0.01% of Maximum, ANSI/FCI 70-2, Class 4	
End Connections	ISO 7005-2	
Materials	Body	EN-JS1025 (ductile iron)
	Ball and Stainless Steel	Blowout-Proof Stem x5CrNi1810 EN10088-3
	Stem Seals	EPDM Double O-Rings
	Ball seats	PTFE Graphite filled
	Characterizing Disk	AMODEL AS-1145HS

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