

03

VALVES & ACTUATORS

Contents

Valves & Actuators

Johnson Controls	31
iSMA Controlli	41
Siemens	46
Goldseal	47
Danfoss	48
Industrie Technik	50
ESBE	51
Sauter	52
Vexve	54
Sontay	54
Xurox	54
Johnson / Joventa Damper Actuators	55
Belimo Actuators	57



Click the page number to
Navigate to the relevant page

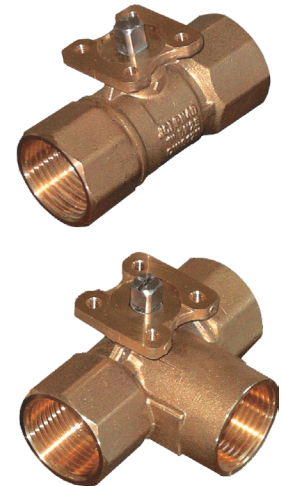
JOHNSON CONTROLS

VG1000 SERIES BALL VALVES

The VG1000 series ball valves are used for the water control of air treatment systems in ventilation and air conditioning units as well as heating systems. They are operated by direct or remote mounted Spring Return and Non-Spring Return actuators by Johnson Controls.

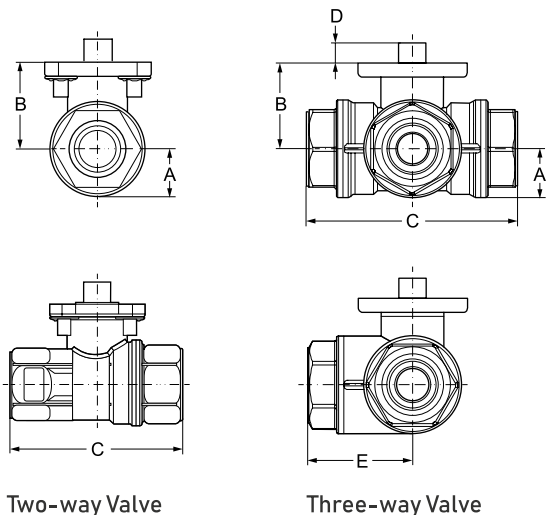
Part Number	Description
VG1205AN	2 Port, DN15, 10 Kvs, PN40
VG1205BN	2 Port, DN20, 10 Kvs, PN40
VG1205CP	2 Port, DN25, 16 Kvs, PN40
VG1205DR	2 Port, DN32, 25 Kvs, PN40
VG1205ES	2 Port, DN40, 40 Kvs, PN40
VG1805AN	3 Port, DN15, 10 Kvs, PN40
VG1805BN	3 Port, DN20, 10 Kvs, PN40
VG1805CP	3 Port, DN25, 16 Kvs, PN40
VG1805DR	3 Port, DN32, 25 Kvs, PN40
VG1805ES	3 Port, DN40, 40 Kvs, PN40

For use with Johnson Controls Proportional and/or Floating & ON/OFF Actuators: M9108- VA9104-VA9203- VA9208-



Dimensions (in mm)

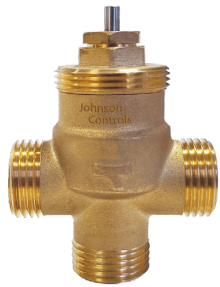
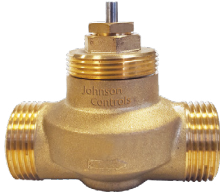
Body Size	A	B	C	D	E
DN15	17	31	67	9	33
DN20	17	31	75	9	38
DN25	19	33	92	9	46
DN32	26	44	109	9	54
DN40	29	48	119	9	59
DN50	37	53	139	9	7



Speak with our team about any large projects



Order before 2pm for same day dispatch



VG3000 SERIES TERMINAL UNIT VALVES

The VG3000 brass valve series is primarily designed to regulate the flow of water in response to the demand of a controller in zone and terminal unit applications and features: 2-way PDTC (NO) with 6 bar close off pressure; Extend range of KVS (0.4....6.3); Forged brass body, stainless steel stem, and spring; Actuator can be field installed after piping; And commissioning cap available as accessory (VG3000-CAP)

Part Number	Description			
Threaded Male Connection BSPP				
VG3210ES	2 - way PDTC	DN15	250 KPa	1.6 Kvs
VG3210FS	2 - way PDTC	DN15	250 KPa	2.5 Kvs
VG3210JS	2 - way PDTC	DN20	200 KPa	2.5 Kvs
VG3210KS	2 - way PDTC	DN20	200 KPa	4 Kvs
VG3210LS	2 - way PDTC	DN25	100 KPa	6.3 Kvs
VG3211FS	2 - way PDTC	DN15	600 KPa	2.5 Kvs
VG3211JS	2 - way PDTC	DN20	600 KPa	2.5 Kvs
VG3211KS	2 - way PDTC	DN20	600 KPa	4 Kvs
VG3211LS	2 - way PDTC	DN25	600 KPa	6.3 Kvs
VG3310FS	3 - way Mixing	DN15	250 KPa	2.5 Kvs
VG3310JS	3 - way Mixing	DN20	200 KPa	2.5 Kvs
VG3310KS	3 - way Mixing	DN20	200 KPa	4 Kvs
VG3310LS	3 - way Mixing	DN25	100 KPa	6.3 Kvs
VG3410ES	3 - way by-pass Mixing	DN15	250 Kpa	1.6 Kvs
VG3410FS	3 - way by-pass Mixing	DN15	250 Kpa	2.5 Kvs
VG3410JS	3 - way by-pass Mixing	DN20	250 Kpa	2.5 Kvs
VG3410KS	3 - way by-pass Mixing	DN20	250 KPa	4 Kvs
VG3410LS	3 - way by-pass Mixing	DN25	100 KPa	6.3 Kvs

* Other Kvs available

The valves are available in 2-way, 3-way mixing and 3-way mixing with built-in by-pass configurations

Also available in the following fittings

- Threaded Female Connection BSPP
- Threaded Female Connection NPT
- 1/2" Compression Valves

The following actuators are available for use with VG3000 Valves:

- VA-708x thermal ON/OFF actuator
- VA-709x thermal 0...10 V actuator
- VA-748x electric terminal unit valve actuator

VA708X AND VA709X ACTUATORS

The VA-708x Terminal Unit Actuators Series provide ON/OFF and DAT control, while the VA-709x provides Proportional Control in HVAC applications.

The compact design of these actuators make them suitable for installations in confined spaces, such as fan-coil applications.

Both VA-708x and VA-709x actuators are designed for field mounting onto VG3000 terminal unit valve, and VP1000 pressure independent valves.

Moreover, thanks to an innovative fixing system, the VA-708x is suitable for almost all the terminal unit valves in the market.

VA-708X

Part Number	Description	
VA-7088-21	24 V AC/DC +20% - 10%	ON/OFF
VA-7087-21	24 V AC/DC +20% - 10%	ON/OFF
VA-7081-21	24 V AC/DC +20% - 10%	ON/OFF
VA-7080-21	24 V AC/DC +20% - 10%	ON/OFF
VA-7088-23	230 V AC \pm 10%	ON/OFF
VA-7087-23	230 V AC \pm 10%	ON/OFF
VA-7081-23	230 V AC \pm 10%	ON/OFF
VA-7080-23	230 V AC \pm 10%	ON/OFF
VA-7088-21C	24 V AC/DC +20% - 10%	ON/OFF
VA-7088-23C	230 V AC \pm 10%	ON/OFF

VA-709X

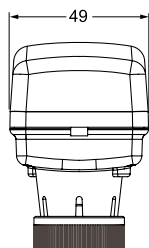
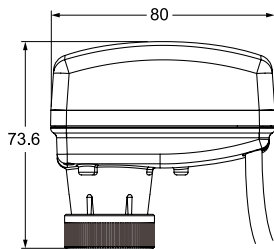
Part Number	Description			
VA-7097-21	24 VAC	125 N	4.5mm Stroke	Normally open
VA-7098-21	24 VAC	125 N	4.5mm Stroke	Normally closed

VA-748X ACTUATOR

The VA-748x Series provides Floating, Proportional, or Proportional control with 0-10 V position feedback signal, offering a complete portfolio of actuators designed to be field mounted onto terminal unit valves from Johnson Controls or any other brand... thanks to the innovative concept of auto stroke detection, a VA-7480 can be installed over any conventional terminal unit valve or any PICV with variable strokes.

Part Number	Description		
VA-7480-0011	Floating	24 VAC	120 N
VA-7480-0311	Floating	24 VAC	120 N
VA-7481-0011	Floating	24 VAC	120 N
VA-7480-0001	Floating	24 VAC	120 N
VA-7481-0001	Floating	24 VAC	120 N
VA-7480-0201-TA	Floating	24 VAC	140 N
VA-7480-0501-TA	Floating	24 VAC	140 N





VA-748X ACTUATOR

Part Number	Description		
VA-7480-4001	Floating	24 VAC	120 N
VA-7480-4003	Floating	230 VAC	120 N
VA-7480-0013	Floating	230 VAC	120 N
VA-7481-0013	Floating	230 VAC	120 N
VA-7480-0003	Floating	230 VAC	120 N
VA-7481-0003	Floating	230 VAC	120 N
VA-7481-4003	Floating	230 VAC	120 N
VA-7482-1001	Proportional	24 VAC/VDC	120 N
VA-7482-2001	Proportional	24 VAC/VDC	120 N
VA-7482-3001	Proportional	24 VAC/VDC	120 N
VA-7482-1001-RA	Proportional	24 VAC/VDC	120 N
VA-7482-1301-RA	Proportional	24 VAC/VDC	120 N
VA-7482-2001-RA	Proportional	24 VAC/VDC	120 N
VA-7482-0011	Proportional	24 VAC/VDC	120 N
VA-7482-0311	Proportional	24 VAC/VDC	120 N
VA-7482-0312	Proportional	24 VAC/VDC	120 N
VA-7482-2201-TA	Proportional	24 VAC/VDC	140 N
VA-7482-2501-TA	Proportional	24 VAC/VDC	140 N
VA-7482-5001	Proportional	24 VAC/VDC	120 N
VA-7482-6001	Proportional	24 VAC/VDC	120 N
VA-7482-7001	Proportional	24 VAC/VDC	120 N
VA-7482-8201	Proportional	24 VAC/VDC	160 N
VA-7482-9201	Proportional	24 VAC/VDC	160 N
VA-7482-8201-RA	Proportional	24 VAC/VDC	160 N
VA-7482-9201-RA	Proportional	24 VAC/VDC	160 N
VA-7482-8002-RA	Proportional	24 VAC/VDC	160 N
VA-7482-9002-RA	Proportional	24 VAC/VDC	160 N
VA-7483-8201	Proportional	24 VAC/VDC	160 N
VA-7483-9201	Proportional	24 VAC/VDC	160 N
VA-7483-8201-RA	Proportional	24 VAC/VDC	160 N
VA-7483-9201-RA	Proportional	24 VAC/VDC	160 N
VA-7484-8001*	Proportional	24 VAC/VDC	160 N
VA-7484-9001*	Proportional	24 VAC/VDC	160 N
VA-7484-8001-RA*	Proportional	24 VAC/VDC	160 N
VA-7484-9001-RA*	Proportional	24 VAC/VDC	160 N

VG 7000 SERIES PLANT VALVES

VG7000 Series Bronze Control Valves are primarily designed to regulate the flow of water and steam in response to the demand of a controller in Heating, Ventilating, and Air Conditioning (HVAC) systems. These valves are available in Push-Down-To-Close (PDTC), Push-Down-To-Open (PDTO), and 3-way mixing configurations. Both electric and pneumatic actuators are available for factory or field mounting.

Part Number	Description		
2-way PDTC (Normally Open) - Female Thread			
VG7201ET	DN15	8mm Stroke	1.6 Kvs
VG7201LT	DN20	8mm Stroke	6.3 Kvs
VG7201NT	DN25	13mm Stroke	10 Kvs
VG7201PT	DN32	13mm Stroke	16 Kvs
VG7201RT	DN40	19mm Stroke	25 Kvs
VG7201ST	DN50	19mm Stroke	40 Kvs

* Other Kvs available on request

* Stainless steel trim valves available (substitute 3 for 1 in the part number)

Part Number	Description		
3-WAY Mixing Configuration - Female Thread			
VG7802GT	DN15	8mm Stroke	4.0 Kvs
VG7802LT	DN20	8mm Stroke	6.3 Kvs
VG7802NT	DN25	13mm Stroke	10 Kvs
VG7802PT	DN32	13mm Stroke	16 Kvs
VG7802RT	DN40	19mm Stroke	25 Kvs
VG7802ST	DN50	19mm Stroke	40 Kvs

* Other Kvs available on request

* Stainless steel trim valves available (substitute 4 for 2 in the part number)

Following actuators are available for use with VG7000 Valves:
 VA-77xx, VA-78xx

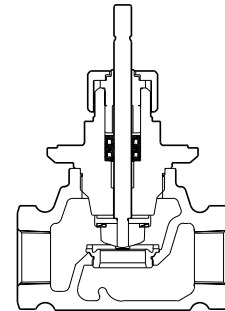
VG8000N SERIES PLANT VALVES

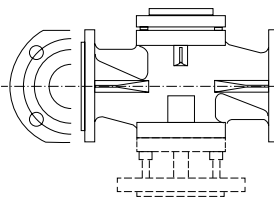
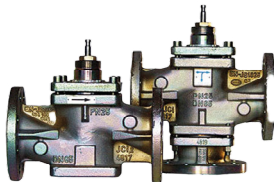
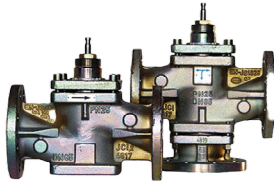
The VG8000 series electrically and pneumatically operated nodular iron valves are designed primarily to regulate the flow of water and steam in response to the demand of a controller, in HVAC systems. These valves are available in two-way, three way mixing and diverting configurations. Both electric and pneumatic actuators are available. PN16 rated nodular cast iron body - Large ranges of valves - Fluid temperature 0-180

Part Number	Description			
2-way PDTC (Normally Open)				
VG82F1S1N	DN50	25mm Stroke	PN16	40 Kvs
VG82G1S1N	DN65	25mm Stroke	PN16	63 Kvs
VG82H1S1N	DN80	25mm Stroke	PN16	100 Kvs
VG82J1S1N	DN100	42mm Stroke	PN16	160 Kvs
VG82K1S1N	DN125	42mm Stroke	PN16	250 Kvs
VG82L1S1N	DN150	42mm Stroke	PN16	350 Kvs

*Also available: NC valves (change 2 to 4 in the ordering code). DN15 -40 with Kvs values 0.63 -25.

Johnson
Controls





Part Number	Description	
3-way Mixing Configuration		
VG88F1S1N	DN50 25mm Stroke PN16	40 Kvs
VG88G1S1N	DN65 25mm Stroke PN16	63 Kvs
VG88H1S1N	DN80 25mm Stroke PN16	100 Kvs
VG88J1S1N	DN100 42mm Stroke PN16	160 Kvs
VG88K1S1N	DN125 42mm Stroke	250 Kvs
VG88L1S1N	DN150 42mm Stroke	350 Kvs

Part Number	Description	
3-way Diverting Configuration		
VG89F1S1N	DN50 25mm Stroke PN16	40 Kvs
VG89G1S1N	DN65 25mm Stroke PN16	63 Kvs
VG89H1S1N	DN80 25mm Stroke PN16	100 Kvs
VG89J1S1N	DN100 42mm Stroke PN16	160 Kvs
VG89K1S1N	DN125 42mm Stroke PN16	250 Kvs
VG89L1S1N	DN150 42mm Stroke PN16	350 Kvs

*Glycerine Cup Packing valves are available by adding suffix "20" to the ordering code

Following actuators are available for use with VG8000N Valves:
VA7800, VA1125

VG9000 DN15...100, PN6 AND PN10

These flanged valves are primarily designed to regulate the flow of water and low pressure steam in response to the demand of a controller, in Heating, Ventilating and Air Conditioning (HVAC) systems.

Part Number	Description		
VG94F1S1K	DN50	40 Kvs	2-way PDTO (Normally Closed) configuration
VG94G1S1K	DN65	63 Kvs	2-way PDTO (Normally Closed) configuration
VG94H1S1K	DN80	100 Kvs	2-way PDTO (Normally Closed) configuration
VG94J1S1K	DN100	160 Kvs	2-way PDTO (Normally Closed) configuration

Part Number	Description		
VG98F1S1K	DN50	40 Kvs	3-way mixing configuration
VG98G1S1K	DN65	63 Kvs	3-way mixing configuration
VG98H1S1K	DN80	100 Kvs	3-way mixing configuration
VG98J1S1K	DN100	160 Kvs	3-way mixing configuration

Following electric actuators are available for use with VG9000 valves:

VA-7700 for DN15... DN50 valves

VA7810 for DN15... DN65 valves

VA1125 for DN65... DN100 valves

VA-7700 FLOATING AND PROPORTIONAL CONTROL

The VA-7700 series provides Floating and Proportional control and can be mounted onto VG7000, VGS800 and VG9000 valves.

MOUNTING ONTO VG7000 SERIES VALVES

Part Number	Description		
VA-7700-1001	24 VAC	500N	Floating
VA-7700-1003	230 VAC	500N	Floating
VA-7740-1001	24 VAC	500N	Floating
VA-7740-1003	230 VAC	500N	Floating
VA-7706-1001	24 VAC	500N	Proportional
VA-7746-1001	24 VAC	500N	Proportional

MOUNTING ONTO VGS800 AND VG9000 SERIES VALVES

Part Number	Description		
VA-7700-8201	24 VAC	500N	Floating
VA-7700-8203	230 VAC	500N	Floating
VA-7740-8201	24 VAC	500N	Floating
VA-7740-8203	230 VAC	500N	Floating
VA-7706-8201	24 VAC	500N	Proportional
VA-7746-8201	24 VAC	500N	Proportional

VA7810 NON-SPRING RETURN PLANT VALVE ACTUATORS

FLOATING AND PROPORTIONAL CONTROL

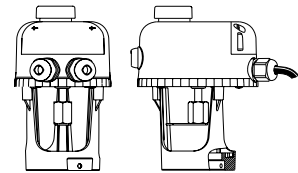
The VA7810 Non Spring Return Actuator with 1000 N thrust for valves in heating, ventilation and air conditioning applications is available for Floating or Proportional control. All models have manual override as standard and provide stroke capabilities of 7 mm to 25 mm. Proportional models are self-calibrating.

The actuator is intended for use with Johnson Controls VG7000 and VGS800 threaded valves as well as VG8000 and VG9000 flanged valves. All valves should be fitted in accordance with the maximum close-off pressure ratings specified. Valve/actuators can be ordered as separate units or as a factory fitted valve/actuator combinations.

MOUNTING ONTO VG7000 AND VGS800 THREADED VALVES

Part Number	Description		
VA7810-ADA-11	230 VAC	1000N	ON/OFF or Floating
VA7810-ADC-11	230 VAC	1000N	ON/OFF or Floating
VA7810-AGA-11	24 VAC	1000N	ON/OFF or Floating
VA7810-AGC-11	24 VAC	1000N	ON/OFF or Floating
VA7810-AGH-11	24 VAC	1000N	ON/OFF or Floating
VA7810-GGA-11	24 VAC	1000N	ON/OFF or Floating or Proportional
VA7810-GGC-11	24 VAC	1000N	ON/OFF or Floating or Proportional

Johnson
Controls





MOUNTING ONTO VG8000 AND VG9000 FLANGED VALVES

Part Number	Description		
VA7810-ADA-12	230 VAC	1000N	ON/OFF or Floating
VA7810-ADC-12	230 VAC	1000N	ON/OFF or Floating
VA7810-AGA-12	24 VAC	1000N	ON/OFF or Floating
VA7810-AGC-12	24 VAC	1000N	ON/OFF or Floating
VA7810-AGH-12	24 VAC	1000N	ON/OFF or Floating
VA7810-GGA-12	24 VAC	1000N	ON/OFF or Floating or Proportional
VA7810-GGC-12	24 VAC	1000N	ON/OFF or Floating or Proportional

VA1125 NON-SPRING RETURN PLANT VALVE ACTUATORS

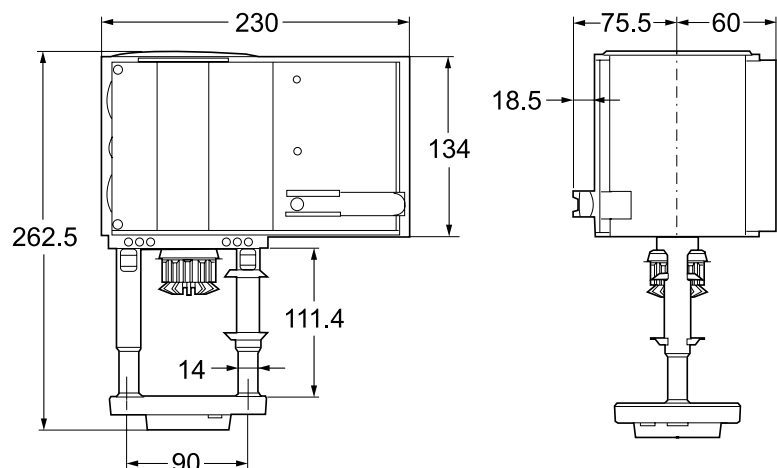
The VA1125 Valve Actuators are used to control Valves in HVAC systems. They are of modular construction so that the required type of control signal is achieved simply by fitting a module with the required function in-situ. It can be mounted onto VG8000, VG8300 and VG9000 series valves.

Part Number	Description			
VA1125-GGA-1	24 VAC	2500N	Non-Spring Return	IP66



ACCESSORIES MODULES FOR ON SITE INSTALLATION

Part Number	Description
VA1000-M230N	230 VAC module
VA1000-P2	2 K Ω feedback potentiometer
VA1000-S2	2 SPDT auxiliary switches
VA1000-EP	Extension kit for applications with temperatures greater than 140 °C up to 200 °C



PRESSURE INDEPENDENT CONTROL VALVES

The VP1000 Pressure Independent Control Valve is a combination of a differential pressure regulator and a regulating valve for flow adjustment.

THE VP1000 Valve allows to adjust the flow rate also in case of partial load of the system and it always ensures a stable adjustment of the supply connected to it. The differential pressure regulator corrects any differential pressure variation. This leads to a considerable reduction in temperature variations and adjustment movements and to the extension of the life of the moving devices connected to it.

COMPACT & AXIAL VALVES

Part Number	Description		
VP100HAA	DN 15	150 l/h	Int screwed
VP100HDE	DN 15	600 l/h	Int screwed
VP100HDC	DN 15	780 l/h	Int screwed
VP100JAJ	DN 20	1000 l/h	Int screwed
VP100J	DN 20	1500 l/h	Int screwed
VP100CAU	DN 25	2200 l/h	Int screwed
VP100CAW	DN 25	2700 l/h	Int screwed
VP100DAW	DN 32	2700 l/h	Int screwed
VP100DAY	DN 32	3000 l/h	Int screwed

T90 - Also available with Pressure Port. (Change VP101 to VP100 in Part Number)

Following actuators are available:

VA-708x ON/OFF thermal

VA-709x thermal 0...10 VDC

VA-748x floating and proportional electric

BALL TYPE VALVES

Part Number	Description		
VP101DBB	DN 40	6001 l/h	Int screwed
VP101EBB	DN 40	6001 l/h	Int screwed
VP101EBD	DN 40	11001 l/h	Int screwed
VP101EBC	DN 50	12000 l/h	Int screwed
VP101FBD	DN 50	12000 l/h	Int screwed
VP101FBF	DN 50	12000 l/h	Int screwed
VP101GBF	DN 55	18000 l/h	Ext screwed

Following actuators are available:

M9108-

VA9310

VA9208

See Rotary/Damper Actuators





FLANGE TYPE VALVES

Part Number	Description	???	???
VPA050-C	DN 50	13000 l/h	Flanged
VPA065-C	DN 65	21000 l/h	Flanged
VPA080-C	DN 80	28000 l/h	Flanged
VPA100-C	DN 100	50000 l/h	Flanged
VPA125-C	DN 125	90000 l/h	Flanged
VPA150-C	DN 150	145000 l/h	Flanged

VAP1000-24-C AND VAP3000-24-C ACTUATORS

Actuators	Description	
VAP600S-24-C	24 Vac	600N
VAP1000S-24-C	24 Vac	1000N
VAP1000L-24-C	24 Vac	1000N
VAP3000-24-C	24 Vac	3000N

VFB BUTTERFLY VALVES

VFB butterfly valves series are specifically designed for a wide range of Heating, Ventilating, and Air Conditioning (HVAC) applications, including two-position and modulating control of hot, chilled, or condenser water, and 50/50 glycol solutions. All valves are factory tested for bubble-tight shutoff at 100% of the fully-rated pressure. These valves are also bidirectional, allowing positive shutoff with the flow in either direction, and can be used with M9000 actuators and the necessary linkage.

Actuators	Description		
VFB025H	DN 25	52 Kvs	1000 kPa
VFB032H	DN 32	72 Kvs	1000 kPa
VFB040H	DN 40	126 Kvs	1000 kPa
VFB050H	DN 50	124 Kvs	1200 kPa
VFB065H	DN 65	243 Kvs	1200 kPa
VFB080H	DN 80	397 Kvs	1200 kPa
VFB100H	DN 100	723 Kvs	1200 kPa
VFB125H	DN 125	1083 Kvs	1200 kPa
VFB150H	DN 150	1591 Kvs	1200 kPa
VFB200H	DN 200	2852 Kvs	1200 kPa
VFB250H	DN 250	4670 Kvs	1200 kPa
VFB300H	DN 300	6946 Kvs	1200 kPa
VFB350H	DN 350	9063 Kvs	1000 kPa

Low Pressure Close-off also available

iSMA CONTROLLI BALL VALVES

For use in heating, ventilation, heating systems, and air conditioning systems, pneumatic systems and irrigation. Thanks to the characterised plug, the modulating models fully fit the equal percentage characteristic. Available in 2 and 3 way threaded connections, both provided with on/off actuator MVS210 and MVS410. Brass body (EN-12165 CW617N), Seat PTFE and Chrome plated Brass ball (EN-12164 CW617N). Sealing leakage: Tight close-off. Connections: Female threaded (except VSD3 and VSD4)

Part Number	Description			
VSS2	2-way	On/Off	DN15	20 Kvs
VSS3	2-way	On/Off	DN20	45 Kvs
VSS4	2-way	On/Off	DN25	60 Kvs
VSS5	2-way	On/Off	DN32	100 Kvs
VSS6	2-way	On/Off	DN40	120 Kvs
VSS8	2-way	On/Off	DN50	220 Kvs
VSC2	2-way	Modulating	DN15	4 Kvs
VSC3	2-way	Modulating	DN20	6.3 Kvs
VSC4	2-way	Modulating	DN25	10 Kvs
VSC5	2-way	Modulating	DN32	16 Kvs
VSC6	2-way	Modulating	DN40	25 Kvs
VSC8	2-way	Modulating	DN50	40 Kvs
VSD3 (FFM)	3-way diverting	On/Off	DN20	9.6 Kvs
VSD4 (FFM)	3-way diverting	On/Off	DN25	11.3 Kvs
VSD5	3-way diverting	On/Off	DN32	19.2 Kvs
VSD6	3-way diverting	On/Off	DN40	27.7 Kvs
VSD8	3-way diverting	On/Off	DN50	57 Kvs
VDC2	3-way mixing	Modulating	DN15	4 Kvs
VDC3	3-way mixing	Modulating	DN20	6.3 Kvs
VDC4	3-way mixing	Modulating	DN25	10 Kvs
VDC5	3-way mixing	Modulating	DN32	16 Kvs
VDC6	3-way mixing	Modulating	DN40	25 Kvs
VDC8	3-way mixing	Modulating	DN50	40 Kvs

ACTUATORS

Part Number	Description			
MVS210	Rotary actuator	230V On/Off	10N	40 Sec
MVS410	Rotary actuator	24V On/Off	10N	40 Sec
MVS216	Rotary actuator	230V On/Off	16N	60 Sec
MVS416	Rotary actuator	24V On/Off	16N	60 Sec
MVS516	Rotary actuator	24V, Modulating, 0-10V	6N	60 Sec
MVSHT	Spacer for MVS_16 actuators			





2TBB & 3TBB GLOBE VALVES

The 2TBB and 3-way 3TBB two-way valves can be used for the control or interception of fluids in air conditioning, heating and heating systems, civil and industrial, in machines for the heat treatment of products and in systems for domestic hot water. The 3-way valves must be used exclusively as mixers. Never use the angled pathway for adjustment.

These valves are designed to be motorized by MVC and MVE actuators.

Part Number	Description		
2 way globe valves, Internal threaded, DN15 - DN50, PN16, bronze			
2TBB15	DN15	2.5 Kvs	9.5mm stroke
2TBB20	DN20	5 Kvs	9.5mm stroke
2TBB25	DN25	10 Kvs	15.9mm stroke
2TBB32	DN32	16 Kvs	15.9mm stroke
2TBB40	DN40	25 Kvs	15.9mm stroke
2TBB50	DN50	38 Kvs	15.9mm stroke
3 way globe valves, Internal threaded, DN15 - DN50, PN16, bronze			
3TBB15	DN15	2.5 Kvs	9.5mm stroke
3TBB20	DN15	10 Kvs	15.9mm stroke
3TBB25	DN15	10 Kvs	15.9mm stroke
3TBB32	DN15	16 Kvs	15.9mm stroke
3TBB40	DN15	25 Kvs	15.9mm stroke
3TBB50	DN15	38 Kvs	15.9mm stroke

2TBB.T COMPACT GLOBE VALVES

The 2TBB.T two-way valves 3TBB.T can be used for the control or interception of fluids in air conditioning, heating and heating systems, civil and industrial, in machines for the heat treatment of products and in water systems. hot sanitary. The 3-way valves must be used exclusively as mixers. Never use the angled corner for adjustment.

Can be driven with MVH and MVE actuators.



Part Number	Description				
2TBB15T	2 Port	12mm Stroke	PN16	DN15	Kvs 2.5*
2TBB20T	2 Port	12mm Stroke	PN16	DN20	Kvs 4*
2TBB25T	2 Port	12mm Stroke	PN16	DN25	Kvs 8*
2TBB32T	2 Port	12mm Stroke	PN16	DN25	Kvs 12*
2TBB40T	2 Port	12mm Stroke	PN16	DN32	Kvs 21*
2TBB50T	2 Port	12mm Stroke	PN16	DN40	Kvs 33*
3TBB15T	3 Port	12mm Stroke	PN16	DN15	Kvs 2*
3TBB20T	3 Port	12mm Stroke	PN16	DN20	Kvs 5*
3TBB25T	3 Port	12mm Stroke	PN16	DN25	Kvs 10*
3TBB32T	3 Port	12mm Stroke	PN16	DN32	Kvs 16*
3TBB40T	3 Port	12mm Stroke	PN16	DN40	Kvs 25*
3TBB50T	3 Port	12mm Stroke	PN16	DN40	Kvs 38*

2FGB & 3FGB FLANGED VALVES

The 2FGB.L series valves are used for the control of fluids belonging to the group, as per art. 13 of Directive 2014/68/EU (PED), in air conditioning systems, thermal ventilation of fluids and civil and industrial heating systems and thermal machines for industrial processes. They can not be used as safety valves.

The 2-3FGB.L series is designed with PTFE gaskets to offer a perfect seal both on the direct route and on the corner road.

These valves are designed to be motorized by MVH and MVE actuators.

Part Number	Description		
2 way globe valves, flanged, cast iron body			
2FGB65	DN65	63 Kvs	25 mm Stroke
2FGB80	DN80	100 Kvs	45 mm Stroke
2FGB100	DN100	130 Kvs	45 mm Stroke
2FGB125	DN125	200 Kvs	45 mm Stroke
2FGB150	DN150	300 Kvs	45 mm Stroke
2FGA200B	DN200	500 Kvs	45 mm Stroke
3 way globe valves, flanged, DN65 - DN200, PN16, cast iron body			
3FGB65	DN65	63 Kvs	25 mm Stroke
3FGB80	DN80	100 Kvs	45 mm Stroke
3FGB100	DN100	130 Kvs	45 mm Stroke
3FGB125	DN125	200 Kvs	45 mm Stroke
3FGB150	DN150	300 Kvs	45 mm Stroke

MVC COMPACT ACTUATOR

Part Number	Description	
MVC203	230Vac On/Off/Float	16mm Stroke, 80Secs, 300N
MVC403	24Vac On/Off/Float	16mm Stroke, 80Secs, 300N
MVC503	24Vac Proportional	16mm Stroke, 80Secs, 300N
MVC503R	24 Vac/dc Proportional Spring Return	12mm Stroke, 36 Secs, 300N
MVC503R-MB	24 Vac/dc Proportional Spring Return Modbus	12mm Stroke, 36 Secs, 300N

 iSMA CONTROLLI

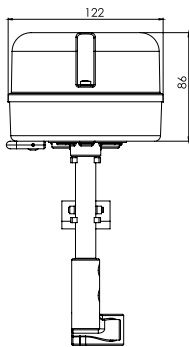
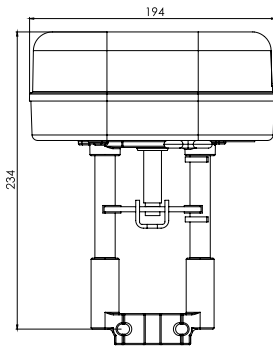


Speak with our team
about any large projects



Order before 2pm for
same day dispatch

Contact our Rol sales team on +353 (0)1 457 5421 or email sales@ibc.ie



MVE ACTUATORS

MVE is a very flexible electromechanical actuator for the control of two and three-way globe valves usable in heating and air conditioning systems, air handling units; district heating plants; industrial control systems.

The actuator can be controlled either by a proportional (modulating) or by a floating signal. Installing and connecting the actuator is very simple. It is possible to mount it directly on all types of CONTROLLI flanged valves, while for the CONTROLLI threaded valves and for the valves of other manufacturers, connection kits are available.

The actuator has a very high resolution (500 steps over the entire stroke range) for precise control of the fluid temperature and is able to self-calibrate on different strokes without the need for user intervention (this function is selectable through the DIP switches present). MVE is equipped with diagnostic functions which, in the event of faults, indicate the specific problem by means of 2 LEDs (RED and GREEN) located on the control board.

Part Number	Description			
MVE504S	Modulating/Float	24V	60mm Stroke	400N
MVE504S-65	Modulating/Float IP65	24V	60mm Stroke	400N
MVE504SR	Modulating/Float Spring return	24V	60mm Stroke	400N
MVE504SR-65	Modulating/Float Spring return IP65	24V	60mm Stroke	400N
MVE506	Floating & Proportional	24V	60mm Stroke	600N
MVE510	Floating & Proportional	24V	60mm Stroke	1000N
MVE515	Modulating/Float	24V	60mm Stroke	1500N
MVE515-IP65	Modulating/Float IP65	24V	60mm Stroke	1500N
MVE515SR	Modulating/Float Spring return	24V	60mm Stroke	1500N
MVE515-IP65-SR	Modulating/Float Spring return IP65	24V	60mm Stroke	1500N
MVE522	Floating & Proportional	24V	60mm Stroke	2200N
MVE204S	Modulating/Float	230V	60mm Stroke	400N
MVE204S-65	Modulating/Float IP65	230V	60mm Stroke	400N
MVE204SR	Modulating/Float Spring return	230V	60mm Stroke	400N
MVE204SR-65	Modulating/Float Spring return IP65	230V	60mm Stroke	400N
MVE206	Floating & Proportional	230V	60mm Stroke	600N
MVE210	Floating & Proportional	230V	60mm Stroke	1000N
MVE215	Modulating/Float	230V	60mm Stroke	1500N
MVE215-IP65	Modulating/Float IP65	230V	60mm Stroke	1500N
MVE215-SR	Modulating/Float Spring return	230V	60mm Stroke	1500N
MVE215-IP65-SR	Modulating/Float Spring return IP65	230V	60mm Stroke	1500N

Ordering Information

MVE is the model
2 or 5 is the power supply...24v is 5, 230v is 2
04, 06, 10 etc is the force... 400Nm, 600Nm, etc
S is short yoke
R is with failsafe
IP65 is the part number for outdoor rating

PRESSURE INDEPENDENT CONTROL VALVES

LIBRA pressure independent control valves are suitable for a wide range of hydronic applications in the building services industry. Fan-coil units and chilled beams are probably the most familiar applications of pressure independent control valves with the move from 4-ports (or 3-ports) to 2-ports valves driven primarily by the need to reduce excessive energy consumption of pumps and thermal losses through pipework.

Pressure-independent control valves are exactly what the name suggests. They maintain a constant pre-set differential pressure across a control valve such that control action of the valve is not affected by inlet-pressure instability.

These valves can be motorized by a wide range of actuators including MCA, MVC, MVE and MVT types

Part Number	Description			
Threaded connections without P/T plugs				
VLX1	DN15	375 L/H Ext screwed	2 port, PN16	4mm stroke
VLX2	DN15	3/4" M connection 800 L/H Ext screwed	2 port, PN16	4mm stroke
VLX3	DN20	1" M connection 1000 L/H Ext screwed	2 port, PN16	4mm stroke
VLX4	DN25	1-1/4" M connection 2000 L/H Ext screwed	2 port, PN16	4mm stroke
VLX5	DN32	1-1/2" M connection 4000 L/H Ext screwed	2 port, PN16	4mm stroke
Threaded connections with P/T plugs				
VLX1P	DN15	375 L/H Ext screwed	2 port, PN16	4mm stroke
VLX2P	DN15	3/4" M connection 800 L/H Ext screwed	2 port, PN16	4mm stroke
VLX3P	DN20	1" M connection 1000 L/H Ext screwed	2 port, PN16	4mm stroke
VLX4P	DN25	1-1/4" M connection 2000 L/H Ext screwed	2 port, PN16	
VLX5P	DN32	1-1/2" M connection 4000 L/H Ext screwed	2 port, PN16	4mm stroke
VLX8P	DN50	2" F connection, 12500 L/H. Int screwed	2 port, PN16	15mm stroke



MCA ACTUATORS

Part Number	Description
MCA230L	230V AC, 140 N, 4mm Stroke
MCA230LM	230V AC, 140 N, 4mm Stroke, Auxiliary Microswitch
MCA24L	24 VAC/DC, 140 N, 4mm Stroke
MCA24LM	24 VAC/DC, 140 N, 4mm Stroke, Auxiliary Microswitch

MVT ACTUATORS

Part Number	Description		
MVT203	3-point - ON/ OFF	230 V AC	16 mm Stroke
MVT403	3-point - ON/ OFF	24 V AC	16 mm Stroke
MVT503	Proportional	24 V AC	16 mm Stroke
MVT203S	3-point - ON/ OFF	230 V AC	9 mm Stroke
MVT403S	3-point - ON/ OFF	24 V AC	9 mm Stroke
MVT503S	Proportional	24 V AC	9 mm Stroke

SIEMENS

SAS - ELECTROMOTIVE ACTUATORS FOR VALVES

Electromotive actuators with 5.5 mm stroke and 400 N positioning force used as control and shutoff valves in heating and ventilation plants.



Part Number	Operating voltage	Control Signal	Pos. Time
SAS31.00	AC 230 V	3-position	120 s
SAS31.03			30 s
SAS31.50			120 s
SAS31.53			30 s
SAS61.03	AC / DC24 V	DC 0...10 VDC 4...20 mA0...1000 Ω	30 s
SAS61.03U		Modbus RTU	
SAS61.03/MO			
SAS61.33		DC 0...10 VDC 4...20 mA0...1000 Ω	
SAS61.33U		Modbus RTU	
SAS61.33/MO			
SAS61.53	DC 0...10 VDC 4...20 mA0...1000 Ω		
SAS81.00	AC / DC24 V	3-position	120 s
SAS81.03			30 s
SAS81.03U			
SAS81.33			
SAS81.33U			

SAX..P - ELECTROMOTORIC ACTUATORS FOR VALVES

Actuators with 20 mm stroke and 500 N force. Electromotoric actuators to operate as control valves on ventilation, air conditioning, district heating and refrigeration plants.



Part Number	Operating voltage	Positioning signal
SAX31P03	AC 230 V	3-position
SAX61P03	AC 24 V DC 24 V	DC ...10 V DC 4...20 mA0...1000 Ω
SAX61P03/MO		Modbus RTU
SAX81P03		3-position

SSC - ELECTROMOTORIC ACTUATORS

For operation of water-side control of hot and cooling water in heating, ventilation and air conditioning systems.



Part Number	Operating voltage	Run time at 50 Hz	Control signal	Auxiliary switch
SSC31	AC 230 V	150 s	3-position	
SSC81	AC 24 V			
SSC61	AC / DC 24 V	30 s	DC 0...10 V	
SSC61.5				With fail-safe function (30 s)

SSB - ELECTROMOTORIC ACTUATORS

For operation of water-side control of hot and cooling water in heating, ventilation and air conditioning systems.

Part Number	Operating voltage	Run time at 50 Hz	Control signal	Auxiliary switch
SSB31	AC 230 V	150 s	3-position	
SSB31/00				
SSB31.1				Yes
SSB81	AC 24 V	150 s	3-position	
SSB81/00				
SSB81.1				Yes
SSB61	AC / DC 24 V	75 s	DC 0...10 V	
SSB61/00				

SIEMENS



WRAS APPROVED SOLENOID VALVES-GOLDSEAL

The WRAS approved range of 2 way normally closed servo assisted solenoid valves.

FEATURES

- WRAS approved solenoid valves for water
- EPDM seal, brass body
- For temperatures up to 120c
- Pressure range 0 -16 bar
- Normally closed as standard

Part Number	Size (inch)	Voltage
WSV-G-15/230	½"	230
WSV-G-20/230	¾"	230
WSV-G-25/230	1"	230
WSV-G-32/230	1¼"	230
WSV-G-40/230	1½"	230
WSV-G-50/230	2"	230

Part Number	Size (inch)	Voltage
WSV-G-15/24	½"	24
WSV-G-20/24	¾"	24
WSV-G-25/24	1"	24
WSV-G-32/24	1¼"	24
WSV-G-40/24	1½"	24
WSV-G-50/24	2"	24

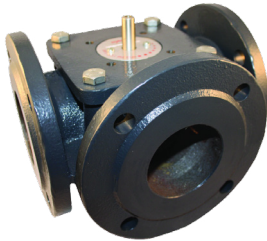
Suffixes (add to part code)

A - 24VAC

D - 24 VDC

Part Number	Description	Voltage
WSV-G 24	Spare Coils	24
WSV-G 230	Spare Coils	230





DANFOSS ROTARY SHOE VALVES

HFE rotary valves are primarily designed for regulation of flow temperature in heating systems where a certain leakage can be accepted and where a defined control characteristic is not required.

Rotary shoe valves for 20-150mm, used with 3-point and Modulating (0 - 10V) actuators - HFE flanged valves, PN6 cast iron body - Suitable for medium temperature up to 110°C - Lowest leakage in class - For mixing and diverting applications.

Part Number	Description			
065Z0418	HRE3 20/6.3	DN20	6.3 Kvs	3 - way mixing
065Z0419	HRE3 25/10	DN25	10 Kvs	3 - way mixing
065Z0420	HRE3 32/16	DN32	16 Kvs	3 - way mixing
065Z0421	HRE3 40/25	DN40	25 Kvs	3 - way mixing
065Z0422	HRE3 50/40	DN50	40 Kvs	3 - way mixing
065Z043300	HFE3 65/90	DN65	90 Kvs	3 - way mixing
065Z043400	HFE3 80/150	DN80	150 Kvs	3 - way mixing
065Z043500	HFE3 100/225	DN100	225 Kvs	3 - way mixing
065Z043600	HFE3 125/280	DN125	280 Kvs	3 - way mixing
065Z043700	HFE3 150/400	DN150	400 Kvs	3 - way mixing
ET3	Linkage for Shoe Valve			

DANFOSS ROTARY SHOE VALVE ACTUATORS

AMB actuators for use with HRE/HFE rotary shoe valves. For use in 3-point control and modulating applications with LED indication of turning direction, selectable speed on DIP switch and manual valve turning mode enabled by a permanent clutch.

Part Number	Description	
082H0213	AMB162 24V	HRE 20-50
082H0218	AMB162 24V	HRE 20-50, Auxiliary Switch
082H0234	AMB182 24V	HFE 65-150
082H0236	AMB182 24V	HFE 65-150, Auxiliary Switch
082H0223	AMB162 230V	HRE 20-50
082H0228	B162 230V	HRE 20-50, Auxiliary Switch
082H0238	AMB182 230V	HFE 65-150
082H0240	AMB182 230V	HFE 65-150, Auxiliary Switch
082H0230	AMB162 24 0-10V	HRE 20-50
082H0241	AMB182 24 0-10V	HFE 65-150



Speak with our team
about any large projects



Order before 2pm for
same day dispatch

DANFOSS AMZ 2 PORT MOTORISED BALL VALVES

The AMZ range of motorised ball valves are typically used in domestic and commercial central heating applications. Supplied as complete valve/actuator assembly with indication of actual valve position. Suitable for medium temperature up to 110°C with auxiliary switch fitted as standard with LED indication. Silent and reliable operation.

Part Number	Description	
082G5406	DN15	230V
082G5407	DN20	230V
082G5408	DN25	230V
082G5409	DN32	230V
082G5410	DN40	230V
082G5411	DN50	230V
082G5400	DN15	24V
082G5401	DN20	24V
082G5402	DN25	24V
082G5403	DN32	24V
082G5404	DN40	24V
082G5405	DN50	24V



DANFOSS AMZ 3 PORT MOTORISED BALL VALVES

Part Number	Description	
082G5418	DN15	230V
082G5419	DN20	230V
082G5420	DN25	230V
082G5421	DN32	230V
082G5412	DN15	24V
082G5413	DN20	24V
082G5414	DN25	24V
082G5415	DN32	24V



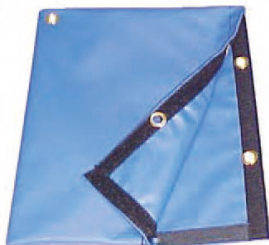
Speak with our expert
BMS engineers today



Online training available
please speak with our team



industrie
technik®



Industrie Technik DB-VZ2 & VZ3 ZONE VALVES

The valves DB-VZ coupled with the synchronous motor SM230/ CA, SM24/CA and SM230/SA, SM24/SA are suitable for heating and cooling water in zone systems for ON-OFF control. Typical applications are for fan-coil units.

Connection between actuator and valve by nut for a convenient mounting - Female threaded connections. - Power supply from electric system, synchronous motor with clutch.

- Actuator is fitted with manual operating lever for manual override when power supply is not applied or if a power failure occurs. - Silent operation. - Strong gear and spring for

long-term working. - Reliability. - Models are available with an optional end stroke switch to provide valve position indication or control function such as pump or fan start/stop

Part Number	Description			
2-way valves: the plug closes against the flow; 3-way valves: the plug blocks the flow toward user side				
DB-VZ2-15	2-way	DN15 (G 1/2)	1.6 Kvs	On/Off
DB-VZ2-20	2-way	DN20 (G 3/4)	3.5 Kvs	On/Off
DB-VZ2-25	2-way	DN25 (G 1)	5.5 Kvs	On/Off
DB-VZ3-15	3-way	DN15 (G 1/2)	1.6 Kvs	On/Off
DB-VZ3-20	3-way	DN20 (G 3/4)	3.5 Kvs	On/Off
DB-VZ3-25	3-way	DN25 (G 1)	5.5 Kvs	On/Off

SM ACTUATORS

Part Number	Description	
SM230/CA	230V With auxiliary microswitch	On/Off with manual override
SM24/CA	24V With auxiliary microswitch	On/Off with manual override

ROBUST PROTECTIVE COVER FOR CONTROL VALVES AND DAMPER ACTUATORS

If you have difficult operating conditions then it is the ideal solution for protecting your control valves in harsh environments. The BLUE BAG Series cover offers an innovative and effective weather protection solution for control valves and actuators. Made of heavy duty fabric, it gives significant protection against severe weather such as rain, sleet or snow.

The "Ice Blue" colour minimizes solar glare which keeps the protected equipment cooler than other forms of protection. It can be installed and removed in seconds and it is available in two sizes to fit various control valve assemblies.

Part Number	Description
BLUE BAG LARGE	Large outdoor protective cover suitable for most makes of motorised valves - 12x16 inches
BLUE BAG SMALL	Small outdoor protective cover suitable for most Makes of motorised valves - 10x12 inches



IBC stock over 2500 products
ready for immediate delivery



Serving the (BMS & HVAC)
Industry since 2005

ESBE

ROTARY MOTORISED MIXING VALVES

The ESBE VRG130 series is a range of compact low leakage mixing valves available in dimensions DN15–50 and made of special brass alloys for use in heating and cooling installations. Together with actuator series ESBE ARA600 the VRG130 valves are also easily automated

Part Number	Description		
VRG131-20	¾" bspf	6.3 Kvs	PN10, water -10/+110°C
VRG131-25	1" bspf	10 Kvs	PN10, water -10/+110°C
VRG131-32	1¼" bspf	16 Kvs	PN10, water -10/+110°C
VRG131-40	1½ bspf	25 Kvs	PN10, water -10/+110°C
VRG131-50	2" bspf	40 Kvs	PN10, water -10/+110°C

ESBE ARA600 ACTUATORS

The ESBE ARA600 series is a compact actuator designed for operating rotary mixing valves DN 15-50. The actuators ARA6X1, ARA6X2, ARA6X3 and ARA6X4 are controlled by 3-point signal, and are recommended for mixing applications. The actuator has an operating range of 90° and the valve can easily be manually operated by the pull-and-turn knob on the front of the actuator.

Part Number	Description		
ARA656	230v	2-point c/w aux switch	6Nm
ARA664	24v	3-point c/w aux switch	6Nm
ARA652	230v	3-point c/w aux switch	6Nm
ARA659	24v	0-10v	6Nm

ESBE F SERIES

The ESBE F series valve is available in dimensions DN 20-150 with flanged connections, and is made of cast iron for use in heating and cooling installations.

Part Number	Description		
3F50	50mm (FL)	66 Kvs	PN6, water -10/+110°C
3F65	65mm (FL)	100 Kvs	PN6, water -10/+110°C
3F80	80mm (FL)	150 Kvs	PN6, water -10/+110°C
3F100	100mm (FL)	225 Kvs	PN6, water -10/+110°C
3F125	125mm (FL)	310 Kvs	PN6, water -10/+110°C
3F150	150mm (FL)	420 Kvs	PN6, water -10/+110°C



Speak with our team
about any large projects



Order before 2pm for
same day dispatch

Contact our Rol sales team on +353 (0)1 457 5421 or email sales@ibc.ie



SAUTER VALVES

VUL/BUL UNIT VALVES

Unit Valves in cast brass, for use with AXT, AXS, OR AXM thermal or motorised valves



Part Number	Description		
VUL 010 F340	DN 10	0.16 Kvs	2-way
VUL 010 F330	DN 10	0.4 Kvs	2-way
VUL 010 F320	DN 10	0.63 Kvs	2-way
VUL 010 F310	DN 10	1 Kvs	2-way
VUL 010 F300	DN 10	1.6 Kvs	2-way
VUL 015 F310	DN 15	2.5 Kvs	2-way
VUL 015 F300	DN 15	3.5 Kvs	2-way
VUL 020 F300	DN 20	4.5 Kvs	2-way
BUL 010 F330	DN 10	0.4 Kvs	3-way
BUL 010 F320	DN 10	0.63 Kvs	3-way
BUL 010 F310	DN 10	1 Kvs	3-way
BUL 010 F300	DN 10	1.6 Kvs	3-way
BUL 015 F310	DN 15	2.5 Kvs	3-way
BUL 015 F300	DN 15	4 Kvs	3-way
BUL 020 F300	DN 20	5 Kvs	3-way
BUL 010 F430	DN 10	0.4 Kvs	3-way with T by-pass
BUL 010 F420	DN 10	0.63 Kvs	3-way with T by-pass
BUL 010 F410	DN 10	1 Kvs	3-way with T by-pass
BUL 010 F400	DN 10	1.6 Kvs	3-way with T by-pass
BUL 015 F410	DN 15	2.5 Kvs	3-way with T by-pass
BUL 015 F400	DN 15	4 Kvs	3-way with T by-pass
BUL 020 F400	DN 20	5 Kvs	3-way with T by-pass

AXT, AXS, & AXM ACTUATORS

Part Number	Description		
AXT 211F110	230V	115Nm	normally closed
AXT211F210	230V	110Nm	normally open
AXT 211F112	24V AC/DC	115Nm	normally closed
AXT 211F212	24V AC/DC	110Nm	normally open
AXS 215SF122	24V AC	115Nm	normally closed
AXS 215SF222	24V AC	110Nm	normally open
AXM 217F200	230V	120Nm	
AXM 217F202	24V AC/DC	120Nm	
AXM 217SF402	24V AC/DC	120Nm	
AXM 217SF404	24V AC/DC	160Nm	

VUN/BUN MALE THREAD VALVES

Male thread valves in cast brass for use with AVM linear actuators

Part Number	Description		
VUN 015 F350	DN 15	0.4 Kvs	2-way
VUN 015 F340	DN 15	0.63 Kvs	2-way
VUN 015 F330	DN 15	1 Kvs	2-way
VUN 015 F320	DN 15	1.6 Kvs	2-way
VUN 015 F310	DN 15	2.5 Kvs	2-way
VUN 015 F300	DN 15	4 Kvs	2-way
VUN 020 F300	DN 20	6.3 Kvs	2-way
VUN 025 F300	DN 25	10 Kvs	2-way
VUN 032 F300	DN 32	16 Kvs	2-way
VUN 040 F300	DN 40	22 Kvs	2-way
VUN 050 F300	DN 50	28 Kvs	2-way
VUN 050 F200	DN 50	40 Kvs	2-way
BUN 015 F330	DN 15	1 Kvs	3-way
BUN 015 F320	DN 15	1.6 Kvs	3-way
BUN 015 F310	DN 15	2.5 Kvs	3-way
BUN 015 F300	DN 15	4 Kvs	3-way
BUN 020 F300	DN 20	6.3 Kvs	3-way
BUN 025 F300	DN 25	10 Kvs	3-way
BUN 032 F300	DN 32	16 Kvs	3-way
BUN 040 F300	DN 40	22 Kvs	3-way
BUN 050 F300	DN 50	28 Kvs	3-way
BUN 050 F200	DN 50	40 Kvs	3-way

AVM ACTUATORS

Part Number	Description		
AVM 105F100	230V	250Nm	30s running time
AVM 105F120	230V	250Nm	120s running time
AVM 105F122	24V AC	250Nm	120s running time
AVM 105SF132	24V AC/DC	250Nm	35, 60s & 120s running time
AVM 115F120	230V	500Nm	120s running time
AVM 115F122	24V AC	500Nm	120s running time
AVM 115SF132	24V AC/DC	500Nm	60s & 120s running time
AVM 321F110	230V	1000Nm	96s & 48s running time
AVM 321F112	24V AC/DC	1000Nm	96s & 48s running time
AVM 321SF132	24V AC/DC	1000Nm	48s & 32s running time




VEXVE**VEXVE**
TERMOMIX ROTARY SHOE VALVES

Rotary shoe valves for 20-50mm, used with 3-point and Modulating (0 - 10V) actuators - Internally threaded, cast iron body - Suitable for medium temperature up to 110°C - Suitable for - mixing and diverting applications - Use with Gruner actuators and ET3 linkage

Part Number	Description		
2320	20mm Rotary Shoe Valve	3 Kvs	3 - way mixing valve
2325	25mm Rotary Shoe Valve	17 Kvs	3 - way mixing valve
2332	32mm Rotary Shoe Valve	24 Kvs	3 - way mixing valve
2340	40mm Rotary Shoe Valve	31 Kvs	3 - way mixing valve
2350	50mm Rotary Shoe Valve	41 Kvs	3 - way mixing valve
ET3	Linkage for Shoe Valve		

**SONTAY**
VZ ZONE VALVES

Part Number	Description
VZ-2N-15	2-Port valves
VZ-2N-20	2-Port valves
VZ-2N-25	2-Port valves
VZ-3-15	3-Port valves
VZ-3-20	3-Port valves
VZ-3-25	3-Port valves

**XUROX**
BUTTERFLY VALVES

A range of wafer type butterfly valves & actuators used in heating and cooling systems. Complete with Aluminium body - DN50-150, Stainless steel disc and shaft and EPDM seat.

Part Number	Description	
405WEHT40	40mm	50K vs
405WEHT50	50mm	83 Kvs
405WEHT65	65mm	212 Kvs
405WEHT80	80mm	400 Kvs
405WEHT100	100mm	750 Kvs
405WEHT125	125mm	1100 Kvs
405WEHT150	150mm	2000 Kvs

DAMPER ACTUATORS

JOHNSTON CONTROLS & JOVENTA ACTUATORS

The JOVENTA SILENCE electric damper-actuator series have been developed to operate small and medium air dampers in ventilation and air conditioning systems.

The compact design and universal adapter fitted with limitation of rotation angle make this JOVENTA actuator highly versatile.

2/3-point control, Load-independent running time, Up to 5 actuators in parallel - Plug-in terminal block connection - Simple direct mounting with universal adapter for fitting to Ø 6-mm to 16-mm shaft or with Z01DN adapter kit for 8,10,11 and 12 mm square shaft - Selectable direction of rotation - Manual release button - 2 adjustable auxiliary switches - Automatic shut-off at end position - Energy saving at end positions - Actuators available with 1m halogen-free cable - Customized versions available - Devices meet CE requirements

Johnston Part Number	Joventa Part Number	Description		
M9304-AGA-1N	DAN1.N	24c ac/dc	Floating	4Nm
M9304-AGC-1N	DAN1.SN	24c ac/dc	Floating	4Nm (2 aux switch)
M9304-ADA-1N	DAN2.N	230V	Floating	4Nm
M9304-ADC-1N	DAN2.SN	230V	Floating	4Nm (2 aux switch)
M9304-GGA-1N	DMN1.2N	24V dc	Proportional	4Nm
M9108-AGA-1N	DAS1	24c ac/dc	Floating	8Nm
M9108-AGC-1N	DAS1.S	24c ac/dc	Floating	8Nm (2 aux switch)
M9108-ADA-1N	DAS2	230V	Floating	8Nm
M9108-ADC-1N	DAS2.S	230V	Floating	8Nm (2 aux switch)
M9108-GGA-1N	DMS1.1	24V dc	Proportional	8Nm
M9108-GGC-1N	DMS1.1S	24V dc	Proportional	8Nm (2 aux switch)
M9116-AGA-1N	DA1	24c ac/dc	Floating	16Nm
M9116-AGC-1N	DA1.S	24c ac/dc	Floating	16Nm (2 aux switch)
M9116-ADA-1N	DA2	230V	Floating	16Nm
M9116-ADC-1N	DA2.S	230V	Floating	16Nm (2 aux switch)
M9116-GGA-1N	DM1.1	24V dc	Proportional	16Nm
M9116-GGC-1N	DM1.1S	24V dc	Proportional	16Nm (2 aux switch)
M9116-GDA-1N	DM2.2	230V dc	Proportional	16Nm
M9116-GDC-1N	DM2.2S	230V dc	Proportional	16Nm (2 aux switch)
M9124-AGA-1N	DAL1	24c ac/dc	Floating	24Nm
M9124-AGC-1N	DAL1.S	24c ac/dc	Floating	24Nm (2 aux switch)
M9124-ADA-1N	DAL2	230V	Floating	24Nm
M9124-ADC-1N	DAL2.S	230V	Floating	24Nm (2 aux switch)
M9124-GGA-1N	DML1.1	24V dc	Proportional	24Nm
M9124-GGC-1N	DML1.1S	24V dc	Proportional	24Nm (2 aux switch)

Johnson
Controls

JOVENTA®



Johnson
Controls

JOVENTA®



JOVENTA

Johnston Part Number	Joventa Part Number	Description	
	DBF1.03	24V Floating, run time 150 sec	3Nm
	DAF1.03	24V Floating, run time 60 sec	3 Nm
	DAF1.03S	24V Floating, run time 60 sec	3 Nm, (2 aux switch)
	DMF1.03	24V Proportional, run time 150 sec	3 Nm
	DMF1.03S	24V Proportional, run time 150 sec	3 Nm, (2 aux switch)
	DMF1.03SZ	24V Proportional, run time 90 sec	3 Nm, (2 aux switch)
M9208-AGA- 1	DBF1.08N	24V Floating, run time 150 sec	8 Nm
M9208-AGC- 1	DBF1.08SN	24V Floating, run time 150 sec	8 Nm, (2 aux switch)
M9208-BGA- 1	DAF1.08N	24V On/Off, run time 70 sec	8 Nm
M9208-BGC- 1	DAF1.08SN	24V On/Off, run time 70 sec	8 Nm, (2 aux switch)
M9208-BDA- 1	DAF2.08N	230V On/Off, run time 70 sec	8 Nm
M9208-BDC- 1	DAF2.08SN	230V On/Off, run time 70 sec	8 Nm, (2 aux switch)
	DA1.F	24V On/Off	16 Nm
	DA1.FS	24V On/Off	16 Nm, (2 aux switch)
	DM1.1F	24V Proportional	16Nm
	DM1.1FS	24V Proportional	16 Nm, (2 aux switch)
	DBF1.20S	230V Floating	20 Nm, (2 aux switch)
	DAF2.20	230V On/Off	20 Nm
	DAF2.20S	230V On/Off	20 Nm, (2 aux switch)
	DAF1.20	24V On/Off	20 Nm
	DAF1.20S	24V On/Off	20 Nm, (2 aux switch)
	DMF1.20	24V Proportional	20 Nm
	DMF1.20S	24V Proportional	20 Nm, (2 aux switch)
M9132-AGC- 1N	DAG1.S	230V Floating	32 Nm, (2 aux switch)
M9132-ADC-1N	DAG2.S	230V Floating	32 Nm, (2 aux switch)
Special and Security			
	SA1.12	24V Floating	8Nm
	SA1.12S	24V Floating	8 Nm, (2 aux switch)
M9108-GGA- 1N4	SM1.12	24V Proportional	8 Nm
M9108-GGC- 1N4	SM1.12S	24V Proportional	8 Nm, (2 aux switch)
M9116-AGA- 1N4	SA1.10	24V Floating	16 Nm
M9116-AGC- 1N4	SA1.10S	24V Floating	16 Nm, (2 aux switch)
M9116-GGA- 1N4	SM1.10	24V Proportional	16 Nm
M9116-GGC- 1N4	SM1.10	24V Proportional	16 Nm, (2 aux switch)

BELIMO

Part Number	Description		
LM24A	5 Nm	24V	2- or 3-position
LM24A-S	5 Nm	24V	2- or 3-position c/w aux switch
LM24A-SR	5 Nm	24V	2-10v output
LM230A	5 Nm	230V	2- or 3-position
LM230A-S	5 Nm	230V	2- or 3-position c/w aux switch
NM24A	10 Nm	24V	2- or 3-position
NM24A-S	10 Nm	24V	2- or 3-position c/w aux switch
NM24A-SR	10 Nm	24V	2-10v output
NM230A	10 Nm	230V	2- or 3-position
NM230A-S	10 Nm	230V	2- or 3-position c/w aux switch
SM24A	20 Nm	24V	2- or 3-position
SM24A-S	20 Nm	24V	2- or 3-position c/w aux switch
SM24A-SR	20 Nm	24V	2-10v output
SM230A	20 Nm	230V	2- or 3-position
SM230A-S	20 Nm	230V	2- or 3-position c/w aux switch
GM24A	30 Nm	24V	2- or 3-position
GM24A-SR	30 Nm	24V	2-10v output
GM230A	30 Nm	230V	2- or 3-position

Part Number	Description		
LF24	4 Nm	24V	2-position spring returnw
LF24-S	4 Nm	24V	2-position spring return c/w aux switch
LF24-SR	4 Nm	24V	2-10v output spring return
LF230	4 Nm		2-position spring return
LF230-S	4 Nm		2-position spring return c/w aux switch
NF24A	10 Nm	24V	2-position spring return
NF24A-S2	10 Nm	24V	2-position spring return c/w 2x aux switch
NF24A-SR	10 Nm	24V	2-10v output spring return
NFA	10 Nm	24-240V	2-position spring return
NFA-S2	10 Nm	24-240V	2-position spring return c/w 2x aux switch
SF24A	20 Nm	24V	2-position spring return
SF24A-S2	20 Nm	24V	2-position spring return c/w 2x aux switch
SF24A-SR	20 Nm	24V	2-10v output spring return
SFA	20 Nm	24-240V	2-position spring return
SFA-S2	20 Nm	24-240V	2-position spring return c/w 2x aux switch
GK24A-1	40 Nm	24V	2-position electrical failsafe
GK24A-SR	40 Nm	24V	2-10v output electrical failsafe

BELIMO

