

Gruner Automation Asia Pacific Ltd.
Hong Kong

**DAMPER ACTUATOR AND VALVE
PRODUCT CATALOGUE
2026
V1.0**

THE ART OF DAMPER ACTUATOR AND VALVE TECHNOLOGY

- Leveraging our core competencies and strategic management, we strive to be the partner of choice for our valued customers.
- Thanks to our reliable products, proven technology, and consistent performance, we are a trusted name in the HVAC market.
- Building on our expertise, we continue to grow our profile and brand, achieving sustainable, long-term development.
- Our goal is to be a faithful ally by understanding our customers' needs and supporting them with our know-how.

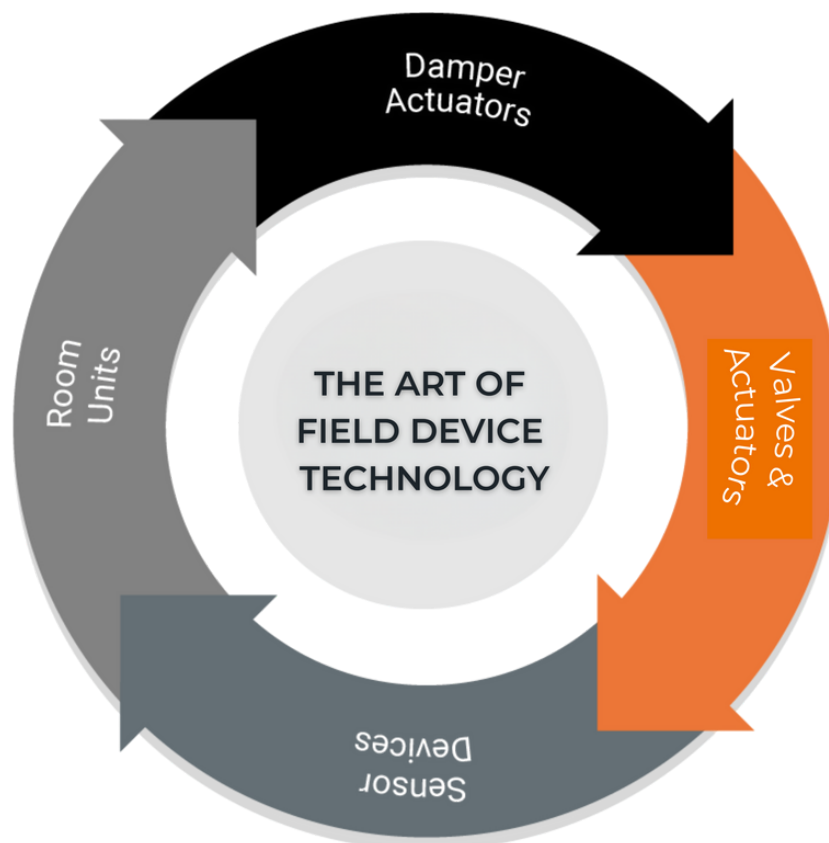


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HVAC ACTUATORS / NON FAIL-SAFE

Power Supply	Control	Torque	Running Time	Picture	Order Code	Feedback Signal	Auxiliary Switch	Electrical Connection	Shaft Coupling	IP Rating		
24 V AC/DC	2 / 3 Point	5 Nm	60 to 120 s		225-024T-05	N/A	N/A	Screw Terminals	□ 8 - 12 mm / Ø 8 - 16 mm	IP52		
					225-024T-05-S2		2 × SPDT					
		8 Nm	20 s		227-024-08E	N/A	N/A	1 m Cable	◇ 8 - 15 mm / Ø 8 - 20 mm	IP54		
					227-024-08E-S1		1 × SPDT					
			60 s		227-024-08G		N/A					
					227-024-08G-S1		1 × SPDT					
			100 s		227-024-08I		N/A					
					227-024-08I-S1		1 × SPDT					
			150 s		227-024-08J		N/A					
					227-024-08J-S1		1 × SPDT					
		16 Nm	75 s		227-024-16H	N/A	N/A	1 m Cable	◇ 8 - 15 mm / Ø 8 - 20 mm	IP54		
					227-024-16H-S1		1 × SPDT					
			100 s		227-024-16I		N/A					
					227-024-16I-S1		1 × SPDT					
			150 s		227-024-16J		N/A					
					227-024-16J-S1		1 × SPDT					
		20 Nm	150 s		363-024-20	N/A	N/A	1 m Cable	□ 9 - 18 mm / Ø 9 - 26 mm	IP54		
					363-024-20-S2		2 × SPDT					
		30 Nm	150 s		363-024-30		N/A					
					363-024-30-S2		2 × SPDT					
		40 Nm	150 s		363-024-40		N/A		Form fit □ 14 mm			
					363-024-40-S2		2 × SPDT					
		60 Nm	150 s		363-024-60/8F14		N/A					
					363-024-60-S2/8F14		2 × SPDT					

HVAC ACTUATORS / NON FAIL-SAFE

Power Supply	Control	Torque	Running Time	Picture	Order Code	Feedback Signal	Auxiliary Switch	Electrical Connection	Shaft Coupling	IP Rating		
24 V AC/DC	0 (2) to 0 – 10 V	5 Nm	60 to 120 s		225C-024T-05	0 (2) – 10 V	N/A	Screw Terminals	□ 8 - 12 mm / Ø 8 - 16 mm	IP52		
					225C-024T-05-S2		2 × SPDT					
		8 Nm	20 s		227C-024-08E	0 (2) – 10 V	N/A	1 m Cable	◇ 8 - 15 mm / Ø 8 - 20 mm	IP54		
					227C-024-08E-S1		1 × SPDT					
			60 s		227C-024-08G		N/A					
					227C-024-08G-S1		1 × SPDT					
			100 s		227C-024-08I		N/A				1 × SPDT	
					227C-024-08I-S1		N/A				1 × SPDT	
					150 s		227C-024-08J				N/A	1 × SPDT
							227C-024-08J-S1				1 × SPDT	
		16 Nm	75 s		227C-024-16H	0 (2) – 10 V	N/A	1 m Cable	◇ 8 - 15 mm / Ø 8 - 20 mm	IP54		
					227C-024-16H-S1		1 × SPDT					
			100 s		227C-024-16I		N/A				1 × SPDT	
					227C-024-16I-S1		N/A				1 × SPDT	
			150 s		227C-024-16J		N/A				1 × SPDT	
					227C-024-16J-S1		1 × SPDT					
		20 Nm	150 s		363C-024-20	0 (2) – 10 V	N/A	1 m Cable	□ 9 - 18 mm / Ø 9 - 26 mm	IP54		
					363C-024-20-S2		2 × SPDT					
		30 Nm	150 s		363C-024-30	0 (2) – 10 V	N/A					
					363C-024-30-S2		2 × SPDT					
		40 Nm	150 s		363C-024-40	0 (2) – 10 V	N/A					
					363C-024-40-S2		2 × SPDT					
		60 Nm	150 s		363C-024-60/8F14	0 (2) – 10 V	N/A		Form fit □ 14 mm			
	Modbus	40 Nm	70 s		364C-024-40	0 (2) – 10 V	N/A	1 m Cable	□ 9 - 18 mm / Ø 9 - 26 mm	IP54		
		40 Nm	70 s		364C-024-40-MB	Modbus	N/A	1 m Cable				
	0 (2) to 0 – 10 V	2 Nm	1 s		328CS-024-02A	0 (2) – 10 V	N/A	1 m Cable	□ 8 - 15 mm / Ø 8 - 20 mm	IP54		
		5 Nm	2 s		328CS-024-05B							
		10 Nm	3 s		328CS-024-10B							
		15 Nm	3 to 5 s		328CS-024-15B							

NEW

HVAC ACTUATORS / NON FAIL-SAFE												
Power Supply	Control	Torque	Running Time	Picture	Order Code	Feedback Signal	Auxiliary Switch	Electrical Connection	Shaft Coupling	IP Rating		
230 V AC/DC	2 / 3 Point	5 Nm	60 to 120 s		225-230T-05	N/A	N/A	Screw Terminals	□ 8 - 12 mm / Ø 8 - 16 mm	IP52		
					225-230T-05-S2		2 × SPDT	Screw Terminals	□ 8 - 12 mm / Ø 8 - 16 mm			
		8 Nm	20 s		227-230-08E	N/A	N/A	1 m Cable	◇ 8 - 15 mm / Ø 8 - 20 mm	IP54		
					227-230-08E-S1		1 × SPDT					
			60 s		227-230-08G		N/A					
					227-230-08G-S1		1 × SPDT					
			100 s		227-230-08I		N/A					
					227-230-08I-S1		1 × SPDT					
			150 s		227-230-08J		N/A					
					227-230-08J-S1		1 × SPDT					
		16 Nm	75 s		227-230-16H	N/A	N/A	1 m Cable	◇ 8 - 15 mm / Ø 8 - 20 mm	IP54		
					227-230-16H-S1		1 × SPDT					
			100 s		227-230-16I		N/A					
					227-230-16I-S1		1 × SPDT					
			150 s		227-230-16J		N/A					
					227-230-16J-S1		1 × SPDT					
		20 Nm	150 s		363-230-20	N/A	N/A	1 m Cable	□ 9 - 18 mm / Ø 9 - 26 mm	IP54		
					363-230-20-S2		2 × SPDT					
		30 Nm	150 s		363-230-30		N/A					
					363-230-30-S2		2 × SPDT					
		40 Nm	150 s		363-230-40		N/A					
					363-230-40-S2		2 × SPDT					
		60 Nm	150 s		363-230-60/8F14		N/A		Form fit □ 14 mm			
	0 (2) — 10 V	8 Nm	20 s		227C-230-08E	0 (2) — 10 V	N/A	1 m Cable	◇ 8 - 15 mm / Ø 8 - 20 mm	IP54		
			60 s		227C-230-08G							
			100 s		227C-230-08I							
			150 s		227C-230-08J							
		16 Nm	75 s		227C-230-16H	0 (2) — 10 V	N/A	1 m Cable	◇ 8 - 15 mm / Ø 8 - 20 mm	IP54		
			100 s		227C-230-16I							
			150 s								227C-230-16J	

HVAC ACTUATORS / FAIL-SAFE

Power Supply	Control	Torque	Running Time	Picture	Order Code	Feedback Signal	Auxiliary Switch	Electrical Connection	Shaft Coupling	IP Rating	
24 V AC/DC	2 Point	3 Nm	40/20 s		341-024D-03	N/A	N/A	1 m Cable	□8 - 13 mm / Ø 8 - 16.5 mm	IP54	
		341-024D-03-S2F	2 × SPDT								
		5 Nm	75/20 s			341-024-05	N/A	N/A	1 m Cable		□8 - 13 mm / Ø 8 - 16.5 mm
		341-024-05-S2F	2 × SPDT								
		10 Nm	75/20 s		361-024-10	N/A	N/A	1 m Cable	□9 - 18 mm / Ø 9 - 26 mm		
		361-024-10-S2	2 × SPDT								
		20 Nm	75/20 s		361-024-20	N/A	N/A	1 m Cable			
		361-024-20-S2	2 × SPDT								
	0 (2) – 10 V	2 Nm	1/1 s		328QS-024-02A	0 (2) – 10 V	N/A	1 m Cable	□8 - 15 mm / Ø 8 - 20 mm	IP54	
		5 Nm	2/2 s		328QS-024-05B						
		10 Nm	3/3 s		328QS-024-10B						
		15 Nm	3 to 5/3 s		328QS-024-15B						
		3 Nm	100/20 s		341C-024-03	0 (2) – 10 V	N/A	1 m Cable	□8 - 13 mm / Ø 8 - 16.5 mm		
		341C-024-03-S2F	2 × SPDT								
		5 Nm	100/20 s			341C-024-05	0 (2) – 10 V	N/A	1 m Cable	□8 - 13 mm / Ø 8 - 16.5 mm	
		341C-024-05-S2F	2 × SPDT								
		10 Nm	150/20 s		361C-024-10	0 (2) – 10 V	N/A	1 m Cable	□9 - 18 mm / Ø 9 - 26 mm		
		361C-024-10-S2	2 × SPDT								
		20 Nm	150/20 s			361C-024-20	0 (2) – 10 V			N/A	
		361C-024-20-S2	2 × SPDT								
	Modbus	40 Nm	70 s		364Q-024-40	0 – 10 VDC	n.a	1 m Cable	□9 - 18 mm / Ø 9 - 26 mm	IP54	
		40 Nm	70 s		364Q-024-40-MB	Modbus	n.a				
230 V AC/DC	2 Point	3 Nm	40/20 s		341-230D-03	N/A	N/A	1 m Cable	□8 - 13 mm / Ø 8 - 16.5 mm	IP54	
		341-230D-03-S2F	2 × SPDT								
		5 Nm	75/20 s			341-230-05	N/A	N/A	1 m Cable		□8 - 13 mm / Ø 8 - 16.5 mm
		341-230-05-S2F	2 × SPDT								
		10 Nm	75/20 s		361-230-10	N/A	N/A	1 m Cable	□9 - 18 mm / Ø 9 - 26 mm		
		361-230-10-S2	2 × SPDT								
		20 Nm	75/20 s			361-230-20	N/A			N/A	
		361-230-20-S2	2 × SPDT								

FIRE & SMOKE ACTUATORS / FAIL-SAFE

Power Supply	Control	Torque	Running Time	Picture	Order Code	Feedback Signal	Auxiliary Switch	Electrical Connection	Shaft Coupling	IP Rating	
24 V AC/DC	2 Point	3 Nm	40/20 s		340-024D-03-S2/8F12	N/A	2 × SPDT	1 m Cable	Form fit 12 mm	IP54	
		5 Nm	75/20 s		340-024-05/8F12		N/A				
					340-024-05-S2/8F12		2 × SPDT				
		12 Nm	75/20 s		360-024-12/8F12		N/A				
					360-024-12-S2/8F12		2 × SPDT				
		20 Nm			360-024-20-S2/8F12						
		3 Nm	40/20 s		340TA-024D-03-S2/8F12		2 × SPDT				
		5 Nm	75/20 s		340TA-024-05-S2/8F12						
	12 Nm	75/20 s	360TA-024-12-S2/8F12								
	20 Nm	75/20 s	360TA-024-20-S2/8F12								
	0 (2) – 10 V	5 Nm	75/20 s		340C-024-05-S2/8F12	0 (2) – 10 V		1 m Cable	Form fit 12 mm	IP54	
		12 Nm	75/20 s		360C-024-12-S2/8F12*						
	2 Point	5 Nm	30/10 s		UL-340S-024-045-S2/RE16	N/A	2 × SPDT	1 m Cable	□ 8 - 12 mm / Ø 8 - 16 mm	IP54	
		10 Nm	75/10 s		UL-360S-024-090-S2/RE25				Ø 9 - 26 mm		
		15 Nm	75/10 s		UL-360S-024-135-S2/RE25						
230 V AC/DC	2 Point	3 Nm	40/20 s		340-230D-03-S2/8F12	N/A	2 × SPDT	1 m Cable	Form fit 12 mm	IP54	
		5 Nm	75/20 s		340-230-05-S2/8F12						
		12 Nm	75/20 s		360-230-12-S2/8F12						
		20 Nm	75/20 s		360-230-20-S2/8F12						
		3 Nm	40/20 s		340TA-230D-03-S2/8F12						
		5 Nm	75/20 s		340TA-230-05-S2/8F12						
		12 Nm	75/20 s		360TA-230-12-S2/8F12						
		20 Nm	75/20 s		360TA-230-20-S2/8F12						
		5 Nm	30/10 s		UL-340S-230-045-S2/RE16				Ø 8 - 16 mm		
		10 Nm	75/10 s		UL-360S-230-090-S2/RE25				Ø 9 - 26 mm		
		15 Nm	75/10 s		UL-360S-230-135-S2/RE25						

* Product by request

SMOKE EXTRACTION ACTUATORS / NON FAIL-SAFE										
Power Supply	Control	Torque	Running Time	Picture	Order Code	Feedback Signal	Auxiliary Switch	Electrical Connection	Shaft Coupling	IP Rating
24 V AC/DC	2 Point	15 Nm	30 s		342-024-15-S2/8F12	N/A	2 × SPDT	1 m Cable	Form fit 12 mm	IP54
		20 Nm	362-024-20-S2/8F12							
		40 Nm	362-024-40-S2/8F12							
230 V AC/DC		15 Nm	30 s		342-230-15-S2/8F12	N/A	2 × SPDT	1 m Cable	Form fit 12 mm	IP54
		20 Nm	362-230-20-S2/8F12							
		40 Nm	362-230-40-S2/8F12							

VARIABLE AIR VOLUME ACTUATORS / NON FAIL-SAFE								
Power Supply	Control	Torque	Running Time	Picture	Order Code	Miscellaneous	Feedback Signal	IP Rating
24 V AC/DC	0 (2) — 10 V	8 Nm	100 s		327V-024-08I	0 to 500Pa	0 (2) — 10 V	IP42
	0 (2) — 10 V / RS 485				327VM-024-08I	Display / 0 to 500Pa		
					327V-024-08I-MB	0 to 500Pa / Modbus RTU		
					327VM-024-08I-MB	Display / 0 to 500Pa / Modbus RTU		
					327V-024-08I-BN	0 to 500Pa / BACnet MSTP		
					327VM-024-08I-BN*	Display / 0 to 500Pa / BACnet MSTP		
24 V AC/DC	0 (2) — 10 V	16 Nm	100 s		327V-024-16I	0 to 500Pa	0 (2) — 10 V	IP42
	0 (2) — 10 V / RS 485				327VM-024-16I	Display / 0 to 500Pa		
					327V-024-16I-MB	0 to 500Pa / Modbus RTU		
					327VM-024-16I-MB	Display / 0 to 500Pa / Modbus RTU		
					327V-024-16I-BN*	0 to 500Pa / BACnet MSTP		
					327VM-024-16I-BN*	Display / 0 to 500Pa / BACnet MSPT		

* Product by request

CHARACTERISED CONTROL VALVE (CCV) / SMALL HVAC EQUIPMENT (2-WAY)										ACTUATORS																							
Characteristic	Valve Size	Operational Pressure	Picture	Order Code	KVs Value (m³/h)	Differential Pressure, max. (kPa)	Fluid Temperature, max	Material	Open Close Actuators												Modulating Actuators												
									Non Spring Return Actuators																								
									Picture																								
									Power Supply	24 V AC/DC						230 V AC						24 V AC/DC											
									IP Rating	IP54																							
									Running Time (s)	100				150				100				150				100				150			
									Auxiliary switch	N/A	× 1	N/A	× 1	N/A	× 2	N/A	× 2	N/A	× 1	N/A	× 1	N/A	× 2	N/A	× 2	N/A	N/A	N/A	× 2	N/A	× 2		
									Torque (Nm)	8	8	16	16	20	20	40	40	8	8	16	16	20	20	40	40	8	16	20	20	40	40		
									Order Code	227-024-08I_VNB	227-024-08I-S1_VNB	227-024-16I_VNB	227-024-16I-S1_VNB	363-024-20_VNB	363-024-20-S2_VNB	363-024-40_VNB	363-024-40-S2_VNB	227-230-08I_VNB	227-230-08I-S1_VNB	227-230-16I_VNB	227-230-16I-S1_VNB	363-230-20_VNB	363-230-20-S2_VNB	363-230-40_VNB	363-230-40-S2_VNB	227C-024-08I_VNB	227C-024-16I_VNB	363C-024-20_VNB	363C-024-20-S2_VNB	363C-024-40_VNB	363C-024-40-S2_VNB		
										Close-Off pressure, max (kPa)																							
2 - Way Valve																																	
DN15	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	1600											1600										
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CHARACTERISED CONTROL VALVE (CCV) / SMALL HVAC EQUIPMENT (2-WAY)											ACTUATORS																			
Characteristic	Valve Size	Operational Pressure	Picture	Order Code	KV's Value (m³/h)	Differential Pressure, max. (kPa)	Fluid Temperature, max	Material		Open Close Actuators						Modulating Actuators														
										Spring Return Actuators																				
									Picture																					
									Power Supply	24 V AC/DC																				
									IP Rating	IP54																				
									Running Time (s)	75/20						100/20		150/20		150/20										
									Auxiliary switch	N/A	× 2	N/A	× 2	N/A	× 2	N/A	× 2	N/A	× 2	N/A	× 2	N/A	× 2							
									Torque (Nm)	5	5	10	10	20	20	5	5	10	10	20	20									
									Order Code	341-024-05_VNB	341-024-05-S2F_VNB	361-024-10_VNB	361-024-10-S2_VNB	361-024-20_VNB	361-024-20-S2_VNB	341C-024-05_VNB	341C-024-05-S2F_VNB	361C-024-10_VNB	361C-024-10-S2_VNB	361C-024-20_VNB	361C-024-20-S2_VNB									
										Close-Off pressure, max (KPa)																				
2 - Way Valve																														
DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	PN25		V2FB.15_4	4.0	350	-5 to +120 °C	Brass													
													V2FB.20_7.5	7.5																
													V2FB.25_15	15.0																
													V2FB.32_23	23.0																
													V2FB.40_35	35.0																
													V2FB.50_60	60.0																
DN150	DN125	DN100	DN80	DN65	DN50	DN40	DN32	DN25	DN20	DN15	PN16		V2SAR.65_120	120.0	Ductile Iron															
													V2SAR.80_160	160.0																
													V2SAR.100_275	275.0																
													V2SAR.125_396	396.0																
													V2SAR.150_544	544.0																
Data on request																														

CHARACTERISED CONTROL VALVE (CCV) / SMALL HVAC EQUIPMENT (3-WAY)									ACTUATORS												
Characteristic	Valve Size	Operational Pressure	Picture	Order Code	KVs Value (m³/h)	Differential Pressure, max. (kPa)	Fluid Temperature, max	Material	Open Close Actuators								Modulating Actuators				
										Non Spring Return Actuators											
									Picture												
									Power Supply	24 V AC/DC				230 V AC				24 V AC/DC			
									IP Rating	IP54											
									Running Time (s)	100		100		100		100		100		100	
									Auxiliary switch	N/A	× 1	N/A	× 1	N/A	× 1	N/A	× 1	N/A	× 1	N/A	× 1
									Torque (Nm)	8	8	16	16	8	8	16	16	8	8	16	16
									Order Code	227-024-08I_VNB	227-024-08I-S1_VNB	227-024-16I_VNB	227-024-16I-S1_VNB	227-230-08I_VNB	227-230-08I-S1_VNB	227-230-16I_VNB	227-230-16I-S1_VNB	227C-024-08I_VNB	227C-024-08I-S1_VNB	227C-024-16I_VNB	227C-024-16I-S1_VNB
										Close-Off pressure, max (KPa)											
3 - Way Valve	DN15	PN20		V3FA.15_1	1	350	5 to 90 °C	Brass													
				V3FA.15_1.6	1.6																
	V3FA.15_2.5			2.5																	
	V3FA.15_4			4																	
	V3FA.20_4			4																	
	V3FA.20_6.3			6.3																	
	V3FA.25_10			10																	
	V3FA.25_16			16																	
	V3FA.32_16			16																	
	V3FA.32_25			25																	
	V3FA.40_25			25																	
	V3FA.40_40			40																	
	V3FA.50_40			40																	
	V3FA.50_63			63																	

CHARACTERISED CONTROL VALVE (CCV) / SMALL HVAC EQUIPMENT (3-WAY)								ACTUATORS						
Characteristic	Valve Size	Operational Pressure	Picture	Order Code	KV _s Value (m³/h)	Differential Pressure, max. (kPa)	Fluid Temperature, max	Material		Open Close Actuators		Modulating Actuators		
										Spring Return Actuators				
									Picture					
									Power Supply	24 V AC/DC				
									IP Rating	IP54				
									Running Time (s)	75/20		100/20		
									Auxiliary switch	N/A	× 2	N/A	× 2	
									Torque (Nm)	5	5	5	5	
									Order Code	341-024-05_VNB	341-024-05-S2F_VNB	341C-024-05_VNB	341C-024-05-S2F_VNB	
										Close-Off pressure, max (KPa)				
3 - Way Valve	DN15	PN20		V3FA.15_1	1	350	5 to 90 °C	Brass	1600 1600 1600 1600					
				V3FA.15_1.6	1.6									
	V3FA.15_2.5			2.5										
	V3FA.15_4			4										
	DN20			V3FA.20_4	4				1600 1600 1600 1600					
				V3FA.20_6.3	6.3									
	DN25			V3FA.25_10	10				1600 1600 1600 1600					
				V3FA.25_16	16									
	DN32			V3FA.32_16	16				1600 1600 1600 1600					
				V3FA.32_25	25									
	DN40			V3FA.40_25	25				Data on request					
				V3FA.40_40	40									
	DN50			V3FA.50_40	40				Data on request					
				V3FA.50_63	63									

CONTROL VALVE (CV) FOR HVAC EQUIPMENT (2-WAY)										ACTUATORS					
Characteristic	Valve Size	Thread	Operational Pressure	Picture	Order Code	KV's Value (m³/h)	Leakage Rate	Fluid Temperature, max	Stroke (mm)		Open/Close & Modulating Actuators				
										Fail Safe function	Non Fail Safe				
										Picture					
										Power Supply	24 V AC/DC				
										IP Rating	IP54				
										Running Time (s)	2 - 4 s / mm		1 - 2 s / mm		
										Feedback signal	0 – 10 V / 4 – 20 mA				
										Stroke (mm)	30	50	50		
										Force (N)	1000	1000	3000		
										Order Code	160C-024-100	180C-024-100	180C-024-300		
											Close-Off pressure, max (MPa)				
										2 - Way Valve	DN15	Screw Flanged ISO7005-2		PN25	V2SBP.15_4
V2SBP.20_6.3	6.3		1.60												
V2SBP.25_10	10		1.60												
V2SBP.32_16	16	20	1.00												
V2SBP.40_25	25		0.70												
V2SBP.50_40	40		0.50												
DN65	DN65	DN80	PN16	V2SAP.65_63	63	20	1.00								
				V2SAP.80_100	100	30	1.00								
				V2SAP.100_160	160		1.00								
DN125	DN125	DN150	V2SAP.125_250	250	40	1.60									
DN150	DN150		V2SAP.150_350	350		1.60									

CONTROL VALVE (CV) FOR HVAC EQUIPMENT (3-WAY)											ACTUATORS		
Characteristic	Valve Size	Thread	Operational Pressure	Picture	Order Code	KV's Value (m³/h)	Leakage Rate	Fluid Temperature, max	Stroke (mm)	Country of Origin		Open/Close & Modulating Actuators	
											Fail Safe function	Non Fail Safe	
											Picture		
											Power Supply	24 V AC/DC	
											IP Rating	IP54	
											Running Time (s)	2 - 4 s / mm	1 - 2 s / mm
											Feedback signal	0 – 10 V / 4 – 20 mA	
											Stroke (mm)	30	50
											Force (N)	1000	3000
											Order Code	160C-024-100	180C-024-300
												Close-Off pressure, max (MPa)	
3 - Way Valve DN150 DN125 DN100 DN80 DN65 DN50 DN40 DN32 DN25 Screw Flanged ISO7005-2 PN16 PN25  V3SBP.15_4 V3SBP.20_6.3 V3SBP.25_10 V3SBP.32_16 V3SBP.40_25 V3SBP.50_40 V3SAP.65_63 V3SAP.80_100 V3SAP.100_160 V3SAP.125_250 V3SAP.150_350 4 6.3 10 16 25 40 63 100 160 250 350 0.02 % of KV's Value -5 to 130 °C 20 20 20 30 40 China											1.60		
											1.60		
											1.60		
											1.00		
											0.70		
											0.50		
											0.90		
											0.55		
											0.35		
											0.24		
											0.15		

STEAM VALVES (SV) FOR HVAC EQUIPMENT (2-WAY)										ACTUATORS																			
Characteristic	Valve Size	Thread	Operational Pressure	Picture	Order Code	KV's Value (m³/h)	Leakage Rate	Fluid Temperature, max	Stroke (mm)		Open/Close & Modulating Actuators																		
										Fail Safe function	Non Fail Safe																		
										Picture																			
										Power Supply	24 V AC/DC																		
										IP Rating	IP54																		
										Running Time(s)	2 - 4 s / mm	1 - 2 s / mm																	
										Feedback signal	0 – 10 V / 4 – 20 mA																		
										Stroke (mm)	30	50																	
										Force (N)	1000	3000																	
										Order Code	160C-024-100	180C-024-300																	
											Close-Off pressure, max (MPa)																		
2 - Way Valve DN15 DN20 DN25 DN32 DN40 DN50 DN65 DN80 DN100 DN125 DN150 Screw Flanged ISO7005-2 PN25 PN16  V2SBPSV.15_4 V2SBPSV.20_6.3 V2SBPSV.25_10 V2SBPSV.32_16 V2SBPSV.40_25 V2SBPSV.50_40 V2SAPSV.65_63 V2SAPSV.80_100 V2SAPSV.100_160 V2SAPSV.125_250 V2SAPSV.150_350 4 6.3 10 16 25 40 63 100 160 250 350 0.02 % of KV's Value 20 20 20 20 40 <tr><td colspan="2">1.60</td></tr> <tr><td colspan="2">1.60</td></tr> <tr><td colspan="2">1.60</td></tr> <tr><td colspan="2">1.00</td></tr> <tr><td colspan="2">1.00</td></tr> <tr><td colspan="2">1.00</td></tr> <tr><td colspan="2">1.60</td></tr> <tr><td colspan="2">1.60</td></tr> <tr><td colspan="2">1.60</td></tr> <tr><td colspan="2">1.60</td></tr>										1.60		1.60		1.60		1.00		1.00		1.00		1.60		1.60		1.60		1.60	
										1.60																			
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										1.60																			
										1.60																			
										1.60																			

STEAM VALVES (SV) FOR HVAC EQUIPMENT (3-WAY)										ACTUATORS			
Characteristic	Valve Size	Thread	Operational Pressure	Picture	Order Code	KV's Value (m³/h)	Leakage Rate	Fluid Temperature, max	Stroke (mm)	Country of Origin		Open/Close & Modulating Actuators	
											Fail Safe function	Non Fail Safe	
											Picture		
											Country of origin	China	
											Power Supply	24 V AC/DC	
											IP Rating	IP54	
											Running Time (s)	2 - 4 s / mm	1 - 2 s / mm
											Feedback signal	0 – 10 V / 4 – 20 mA	
											Stroke (mm)	30	50
											Force (N)	1000	3000
											Order Code	160C-024-100	180C-024-300
												Close-Off pressure, max (MPa)	
3 - Way Valve DN32 DN40 DN50 DN65 DN80 DN100 DN125 DN150 Screw Flanged ISO7005-2 PN25 PN16  V3SBPSV.32_16 V3SBPSV.40_25 V3SBPSV.50_40 V3SAPSV.65_63 V3SAPSV.80_100 V3SAPSV.100_160 V3SAPSV.125_250 V3SAPSV.150_350 16 25 40 63 100 160 250 350 0.02 % of KV's Value 2 to 180 °C 20 20 40 China											1.00		
											1.00		
											1.00		
												1.60	
												1.60	
												1.60	
												1.60	

PRESSURE INDEPENDENT CONTROL VALVE (PICV) FOR SMALL HVAC EQUIPMENT									ACTUATORS					
Characteristic	Valve Size	Operational Pressure	Picture	Order Code	Flow range (m³/h) / selectable	Differential Pressure, max. (kPa)	Fluid Temperature, max	Stroke (mm)		Open Close Actuators			Modulating Actuators	
									Picture					
									Power Supply	24 V AC/DC	230 V AC		24 V AC/DC	
									IP Rating	IP54			IP54	
									Fail Safe function	Non FS	FS	FS	FS	Non FS
									Running Time (s)	120			120	
									Feedback signal	N/A	N/A	N/A	N/A	N/A
									Stroke (mm)	4	4	4	4	4
									Force (N)	125	100	125	100	125
									Order Code	120-024-0125	110-230-010	110-230-0125	110C-024-010	120C-024-0125
										Close-Off pressure, max (kPa)				
2- Way Valve	DN15	PN25		V2FBPIC.15_0.9	0.16 to 0.9	35 - 500	-10 – 120 °C	4	400 400 400 400 400					
	DN20			V2FBPIC.20_1.3	0.28 to 1.3				400 400 400 400 400					
	DN25			V2FBPIC.25_2	0.21 to 2.0				400 400 400 400 400					
	DN32			V2FBPIC.32_4	0.42 to 4.0				130 130 130 130 130					
2- Way Valve - 2 Pressure Ports	DN15	PN25		V2FBPPIC.15_0.9	0.16 to 0.9	35 - 500	-10 – 120 °C	4	400 400 400 400 400					
	DN20			V2FBPPIC.20_1.3	0.28 to 1.3				400 400 400 400 400					
	DN25			V2FBPPIC.25_2	0.21 to 2.0				400 400 400 400 400					
	DN32			V2FBPPIC.32_4	0.42 to 4.0				130 130 130 130 130					

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PRESSURE INDEPENDENT CONTROL VALVE (PICV) FOR LARGE HVAC EQUIPMENT									ACTUATORS			
Characteristic	Valve Size	Operational Pressure	Picture	Order Code	Flow range (m³/h) / selectable	Differential Pressure, max. (kPa)	Fluid Temperature, max	Stroke (mm)		Open/Close & Modulating Actuators		
									Picture			
									Power Supply	24V AC/DC		
									IP Rating	IP54		
									Fail Safe function	Non FS		
									Running Time (s)	2 - 4 s / mm		
									Feedback signal	0 – 10 V / 4 – 20 mA		
									Stroke (mm)	20	30	50
									Force (N)	500	1000	1000
									Order Code	150C-024-050	160C-024-100	180C-024-100
	Close-Off pressure, max (kPa)											
2- Way Valve	DN32	PN25		V2FBPIC.32_4L	4	35 - 500	-10 to 120 °C	20	400			
	DN40			V2FBPIC.40_6L	6				400			
	DN50			V2FBPIC.50_8L	8				400			
2- Way Valve - 2 Pressure Ports	DN32	PN25		V2FBPPIC.32_4L	4	35 - 500	-10 to 120 °C	20	400			
	DN40			V2FBPPIC.40_6L	6				400			
	DN50			V2FBPPIC.50_8L	8				400			
2- Way Valve - 2 Pressure Ports	DN50	PN16		V2SAPPIC.50_13	13	400	-10 to 120 °C	20	400			
	DN65			V2SAPPIC.65_21	21				400			
	DN80			V2SAPPIC.80_28	28				400			
	DN100			V2SAPPIC.100_50	50			40		400		
	DN125			V2SAPPIC.125_90	90					400		
	DN150			V2SAPPIC.150_145	145					400		



WAFER TYPE, PN16, NYLON COATED DISK, BUTTERFLY VALVES AND 910 ACTUATORS

Disk Material: DI + Nylon 11				910 On/Off Actuators											
															
Valve size	Operational pressure	Order code	Temperature	Power supply	230 V AC										
				Torque (Nm)	50	100	150	500	700	1000	1700	2300	4000	6000	
				Order Code	910-230-50-S2	910-230-100-S2	910-230-150-S2	910-230-500-S2	910-230-700-S2	910-230-1K-S2	910-230-1K7-S2	910-230-2K3-S2	910-230-4K-S2	910-230-6K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2WABV.50NE	120 ± 5 °C		1600										
DN65		V2WABV.65NE			1600										
DN80		V2WABV.80NE			1600										
DN100		V2WABV.100NE			1600										
DN125		V2WABV.125NE				1600									
DN150		V2WABV.150NE					1600								
DN200		V2WABV.200NE					1600								
DN250		V2WABV.250NE						1600							
DN300		V2WABV.300NE						1600							
DN350		V2WABV.350NE							1600						
DN400		V2WABV.400NE								1600					
DN450		V2WABV.450NE								1600					
DN500		V2WABV.500NE									1600				
DN600		V2WABV.600NE										1600			
DN700		V2WABV.700NE											1600		
DN800		V2WABV.800NE												1600	
Disk Material: DI + Nylon 11				910C Modulating Actuators											
Valve size	Operational pressure	Order code	Temperature	Order Code	910C-230-50-S2	910C-230-100-S2	910C-230-150-S2	910C-230-500-S2	910C-230-700-S2	910C-230-1K-S2	910C-230-1K7-S2	910C-230-2K3-S2	910C-230-4K-S2	910C-230-6K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2WABV.50NE	120 ± 5 °C		1600										
DN65		V2WABV.65NE			1600										
DN80		V2WABV.80NE			1600										
DN100		V2WABV.100NE			1600										
DN125		V2WABV.125NE				1600									
DN150		V2WABV.150NE					1600								
DN200		V2WABV.200NE					1600								
DN250		V2WABV.250NE						1600							
DN300		V2WABV.300NE						1600							
DN350		V2WABV.350NE							1600						
DN400		V2WABV.400NE								1600					
DN450		V2WABV.450NE								1600					
DN500		V2WABV.500NE									1600				
DN600		V2WABV.600NE										1600			
DN700		V2WABV.700NE											1600		
DN800		V2WABV.800NE												1600	



WAFER TYPE, PN16, STAINLESS STEEL DISK, BUTTERFLY VALVES AND 910 ACTUATORS

Disk Material: SS304				910 On/Off Actuators											
															
Valve size	Operational pressure	Order code	Temperature	Power supply	230 V AC										
				Torque (Nm)	50	100	150	500	700	1000	1700	2300	4000	6000	
				Order Code	910-230-50-S2	910-230-100-S2	910-230-150-S2	910-230-500-S2	910-230-700-S2	910-230-1K-S2	910-230-1K7-S2	910-230-2K3-S2	910-230-4K-S2	910-230-6K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2WABV.50SE	120 ± 5 °C		1600										
DN65		V2WABV.65SE			1600										
DN80		V2WABV.80SE			1600										
DN100		V2WABV.100SE			1600										
DN125		V2WABV.125SE				1600									
DN150		V2WABV.150SE					1600								
DN200		V2WABV.200SE					1600								
DN250		V2WABV.250SE						1600							
DN300		V2WABV.300SE						1600							
DN350		V2WABV.350SE							1600						
DN400		V2WABV.400SE								1600					
DN450		V2WABV.450SE								1600					
DN500		V2WABV.500SE									1600				
DN600		V2WABV.600SE										1600			
DN700		V2WABV.700SE											1600		
DN800		V2WABV.800SE												1600	
Disk Material: SS304				910C Modulating Actuators											
Valve size	Operational pressure	Order code	Temperature	Order Code	910C-230-50-S2	910C-230-100-S2	910C-230-150-S2	910C-230-500-S2	910C-230-700-S2	910C-230-1K-S2	910C-230-1K7-S2	910C-230-2K3-S2	910C-230-4K-S2	910C-230-6K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2WABV.50SE	120 ± 5 °C		1600										
DN65		V2WABV.65SE			1600										
DN80		V2WABV.80SE			1600										
DN100		V2WABV.100SE			1600										
DN125		V2WABV.125SE				1600									
DN150		V2WABV.150SE					1600								
DN200		V2WABV.200SE					1600								
DN250		V2WABV.250SE						1600							
DN300		V2WABV.300SE						1600							
DN350		V2WABV.350SE							1600						
DN400		V2WABV.400SE								1600					
DN450		V2WABV.450SE								1600					
DN500		V2WABV.500SE									1600				
DN600		V2WABV.600SE										1600			
DN700		V2WABV.700SE											1600		
DN800		V2WABV.800SE												1600	

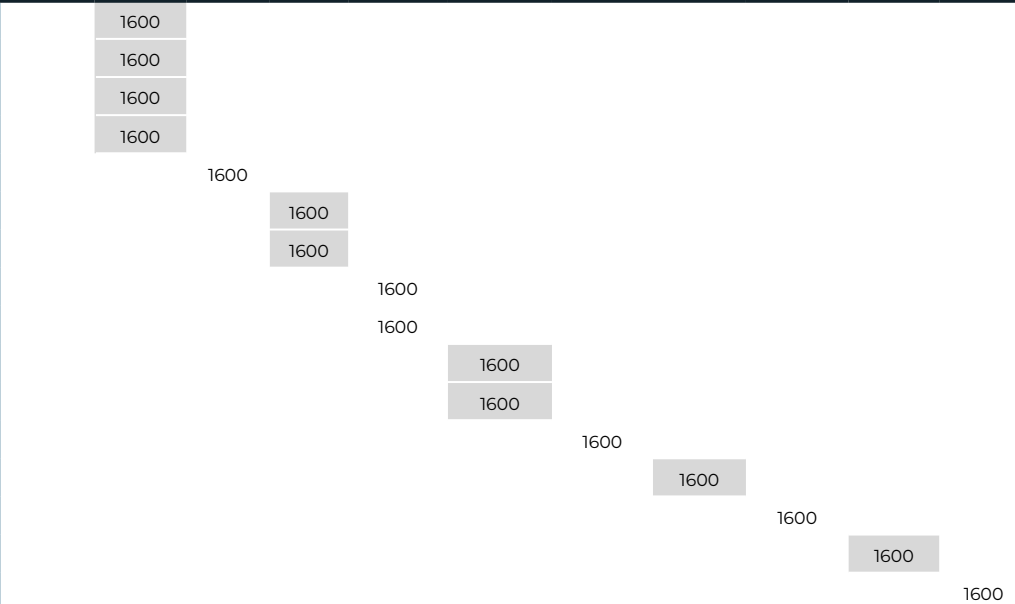
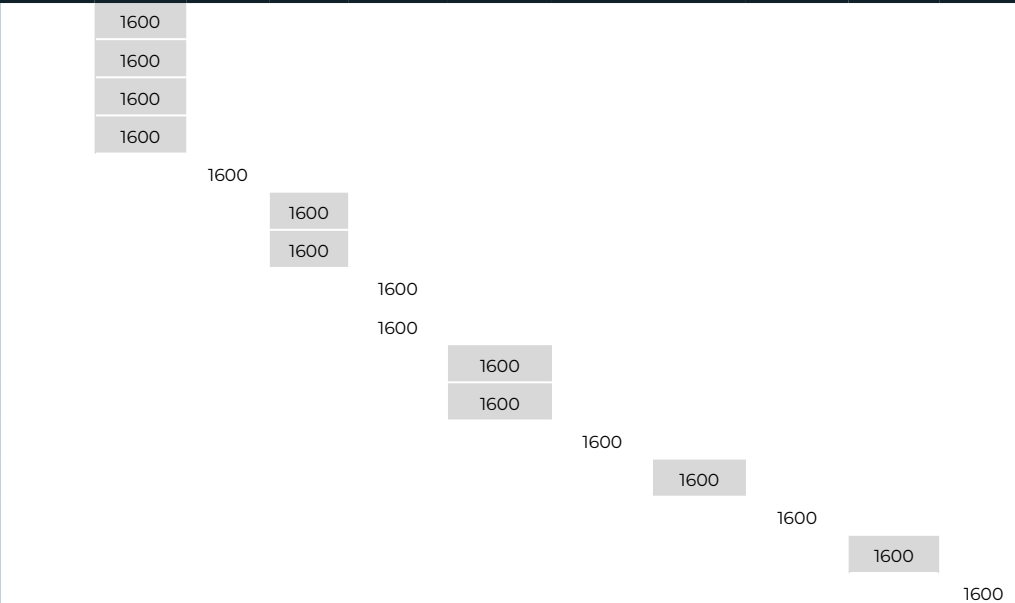


WAFER TYPE, PN16, NYLON COATED DISK, BUTTERFLY VALVES AND 920 ACTUATORS

Disk Material: DI + Nylon 11				920 On/Off Actuators																	
				Picture																	
Valve size	Operational pressure	Order code	Temperature	Power supply	230 V AC																
				Torque (Nm)	50	100	160	500	800	1300	1700	2000	3500	5000							
				Order Code	920-230-50-S2	920-230-100-S2	920-230-160-S2	920-230-500-S2	920-230-800-S2	920-230-1K3-S2	920-230-1K7-S2	920-230-2K-S2	920-230-3K5-S2	920-230-5K-S2							
					Close-Off pressure, max (kPa)																
DN50	PN16	V2WABV.50NE	120 ± 5 °C		1600																
DN65		V2WABV.65NE		1600																	
DN80		V2WABV.80NE		1600																	
DN100		V2WABV.100NE		1600																	
DN125		V2WABV.125NE			1600																
DN150		V2WABV.150NE				1600															
DN200		V2WABV.200NE				1600															
DN250		V2WABV.250NE					1600														
DN300		V2WABV.300NE					1600														
DN350		V2WABV.350NE						1600													
DN400		V2WABV.400NE						1600													
DN450		V2WABV.450NE							1600												
DN500		V2WABV.500NE								1600											
DN600		V2WABV.600NE									1600										
DN700		V2WABV.700NE										1600									
DN800		V2WABV.800NE											1600								
Disk Material: DI + Nylon 11				920C Modulating Actuators																	
Valve size	Operational pressure	Order code	Temperature	Order Code	920C-230-50	920C-230-100-S2	920C-230-160-S2	920C-230-500-S2	920C-230-800-S2	920C-230-1K3-S2	920C-230-1K7-S2	920C-230-2K-S2	920C-230-3K5-S2	920C-230-5K-S2							
					Close-Off pressure, max (kPa)																
DN50	PN16	V2WABV.50NE	120 ± 5 °C		1600																
DN65		V2WABV.65NE		1600																	
DN80		V2WABV.80NE		1600																	
DN100		V2WABV.100NE		1600																	
DN125		V2WABV.125NE			1600																
DN150		V2WABV.150NE				1600															
DN200		V2WABV.200NE				1600															
DN250		V2WABV.250NE					1600														
DN300		V2WABV.300NE					1600														
DN350		V2WABV.350NE						1600													
DN400		V2WABV.400NE						1600													
DN450		V2WABV.450NE							1600												
DN500		V2WABV.500NE								1600											
DN600		V2WABV.600NE									1600										
DN700		V2WABV.700NE										1600									
DN800		V2WABV.800NE											1600								



WAFER TYPE, PN16, STAINLESS STEEL DISK, BUTTERFLY VALVES AND 920 ACTUATORS

Disk Material: SS304				920 On/Off Actuators										
				Picture										
Valve size	Operational pressure	Order code	Temperature	Power supply	230 V AC									
				Torque (Nm)	50	100	160	500	800	1300	1700	2000	3500	5000
				Order Code	920-230-50-S2	920-230-100-S2	920-230-160-S2	920-230-500-S2	920-230-800-S2	920-230-1K3-S2	920-230-1K7-S2	920-230-2K-S2	920-230-3K5-S2	920-230-5K-S2
					Close-Off pressure, max (kPa)									
DN50	PN16	V2WABV.50SE	120 ± 5 °C		1600									
DN65		V2WABV.65SE		1600										
DN80		V2WABV.80SE		1600										
DN100		V2WABV.100SE		1600										
DN125		V2WABV.125SE		1600										
DN150		V2WABV.150SE		1600										
DN200		V2WABV.200SE		1600										
DN250		V2WABV.250SE		1600										
DN300		V2WABV.300SE		1600										
DN350		V2WABV.350SE		1600										
DN400		V2WABV.400SE		1600										
DN450		V2WABV.450SE		1600										
DN500		V2WABV.500SE		1600										
DN600		V2WABV.600SE		1600										
DN700		V2WABV.700SE		1600										
DN800		V2WABV.800SE		1600										
Disk Material: SS304				920C Modulating Actuators										
Valve size	Operational pressure	Order code	Temperature	Order Code	920C-230-50	920C-230-100-S2	920C-230-160-S2	920C-230-500-S2	920C-230-800-S2	920C-230-1K3-S2	920C-230-1K7-S2	920C-230-2K-S2	920C-230-3K5-S2	920C-230-5K-S2
					Close-Off pressure, max (kPa)									
DN50	PN16	V2WABV.50SE	120 ± 5 °C		1600									
DN65		V2WABV.65SE		1600										
DN80		V2WABV.80SE		1600										
DN100		V2WABV.100SE		1600										
DN125		V2WABV.125SE		1600										
DN150		V2WABV.150SE		1600										
DN200		V2WABV.200SE		1600										
DN250		V2WABV.250SE		1600										
DN300		V2WABV.300SE		1600										
DN350		V2WABV.350SE		1600										
DN400		V2WABV.400SE		1600										
DN450		V2WABV.450SE		1600										
DN500		V2WABV.500SE		1600										
DN600		V2WABV.600SE		1600										
DN700		V2WABV.700SE		1600										
DN800		V2WABV.800SE		1600										



LUG TYPE, PN16, NYLON COATED DISK, BUTTERFLY VALVES AND 910 ACTUATORS

Disk Material: DI + Nylon 11				910 On/Off Actuators											
															
Valve size	Operational pressure	Order code	Temperature	Power supply	230 V AC										
				Torque (Nm)	50	100	150	500	700	1000	1700	2300	4000	6000	
				Order Code	910-230-50-S2	910-230-100-S2	910-230-150-S2	910-230-500-S2	910-230-700-S2	910-230-1K-S2	910-230-1K7-S2	910-230-2K3-S2	910-230-4K-S2	910-230-6K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2LABV.50NE	120 ± 5 °C		1600										
DN65		V2LABV.65NE			1600										
DN80		V2LABV.80NE			1600										
DN100		V2LABV.100NE			1600										
DN125		V2LABV.125NE				1600									
DN150		V2LABV.150NE					1600								
DN200		V2LABV.200NE					1600								
DN250		V2LABV.250NE						1600							
DN300		V2LABV.300NE						1600							
DN350		V2LABV.350NE							1600						
DN400		V2LABV.400NE								1600					
DN450		V2LABV.450NE								1600					
DN500		V2LABV.500NE									1600				
DN600		V2LABV.600NE										1600			
DN700		V2LABV.700NE											1600		
DN800		V2LABV.800NE												1600	
Disk Material: DI + Nylon 11				910C Modulating Actuators											
Valve size	Operational pressure	Order code	Temperature	Order Code	910C-230-50-S2	910C-230-100-S2	910C-230-150-S2	910C-230-500-S2	910C-230-700-S2	910C-230-1K-S2	910C-230-1K7-S2	910C-230-2K3-S2	910C-230-4K-S2	910C-230-6K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2LABV.50NE	120 ± 5 °C		1600										
DN65		V2LABV.65NE			1600										
DN80		V2LABV.80NE			1600										
DN100		V2LABV.100NE			1600										
DN125		V2LABV.125NE				1600									
DN150		V2LABV.150NE					1600								
DN200		V2LABV.200NE					1600								
DN250		V2LABV.250NE						1600							
DN300		V2LABV.300NE						1600							
DN350		V2LABV.350NE							1600						
DN400		V2LABV.400NE								1600					
DN450		V2LABV.450NE								1600					
DN500		V2LABV.500NE									1600				
DN600		V2LABV.600NE										1600			
DN700		V2LABV.700NE											1600		
DN800		V2LABV.800NE												1600	

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LUG TYPE, PN16, STAINLESS STEEL DISK, BUTTERFLY VALVES AND 910 ACTUATORS

Disk Material: SS304				910 On/Off Actuators											
															
Valve size	Operational pressure	Order code	Temperature	Power supply	230 V AC										
				Torque (Nm)	50	100	150	500	700	1000	1700	2300	4000	6000	
				Order Code	910-230-50-S2	910-230-100-S2	910-230-150-S2	910-230-500-S2	910-230-700-S2	910-230-1K-S2	910-230-1K7-S2	910-230-2K3-S2	910-230-4K-S2	910-230-6K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2LABV.50SE	120 ± 5 °C		1600										
DN65		V2LABV.65SE			1600										
DN80		V2LABV.80SE			1600										
DN100		V2LABV.100SE			1600										
DN125		V2LABV.125SE				1600									
DN150		V2LABV.150SE					1600								
DN200		V2LABV.200SE					1600								
DN250		V2LABV.250SE						1600							
DN300		V2LABV.300SE						1600							
DN350		V2LABV.350SE							1600						
DN400		V2LABV.400SE								1600					
DN450		V2LABV.450SE								1600					
DN500		V2LABV.500SE									1600				
DN600		V2LABV.600SE										1600			
DN700		V2LABV.700SE											1600		
DN800		V2LABV.800SE												1600	
Disk Material: SS304				910C Modulating Actuators											
Valve size	Operational pressure	Order code	Temperature	Order Code	910C-230-50-S2	910C-230-100-S2	910C-230-150-S2	910C-230-500-S2	910C-230-700-S2	910C-230-1K-S2	910C-230-1K7-S2	910C-230-2K3-S2	910C-230-4K-S2	910C-230-6K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2LABV.50SE	120 ± 5 °C		1600										
DN65		V2LABV.65SE			1600										
DN80		V2LABV.80SE			1600										
DN100		V2LABV.100SE			1600										
DN125		V2LABV.125SE				1600									
DN150		V2LABV.150SE					1600								
DN200		V2LABV.200SE					1600								
DN250		V2LABV.250SE						1600							
DN300		V2LABV.300SE						1600							
DN350		V2LABV.350SE							1600						
DN400		V2LABV.400SE								1600					
DN450		V2LABV.450SE								1600					
DN500		V2LABV.500SE									1600				
DN600		V2LABV.600SE										1600			
DN700		V2LABV.700SE											1600		
DN800		V2LABV.800SE												1600	



LUG TYPE, PN16, NYLON COATED DISK, BUTTERFLY VALVES AND 920 ACTUATORS

Disk Material: DI + Nylon 11				920 On/Off Actuators											
				Picture											
Valve size	Operational pressure	Order code	Temperature	Power supply	230 V AC										
				Torque (Nm)	50	100	160	500	800	1300	1700	2000	3500	5000	
				Order Code	920-230-50-S2	920-230-100-S2	920-230-160-S2	920-230-500-S2	920-230-800-S2	920-230-1K3-S2	920-230-1K7-S2	920-230-2K-S2	920-230-3K5-S2	920-230-5K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2LABV.50NE	120 ± 5 °C		1600										
DN65		V2LABV.65NE		1600											
DN80		V2LABV.80NE		1600											
DN100		V2LABV.100NE		1600											
DN125		V2LABV.125NE		1600											
DN150		V2LABV.150NE					1600								
DN200		V2LABV.200NE					1600								
DN250		V2LABV.250NE					1600								
DN300		V2LABV.300NE					1600								
DN350		V2LABV.350NE								1600					
DN400		V2LABV.400NE								1600					
DN450		V2LABV.450NE								1600					
DN500		V2LABV.500NE										1600			
DN600		V2LABV.600NE											1600		
DN700		V2LABV.700NE											1600		
DN800		V2LABV.800NE											1600		
Disk Material: DI + Nylon 11				920C Modulating Actuators											
Valve size	Operational pressure	Order code	Temperature	Order Code	920C-230-50	920C-230-100-S2	920C-230-160-S2	920C-230-500-S2	920C-230-800-S2	920C-230-1K3-S2	920C-230-1K7-S2	920C-230-2K-S2	920C-230-3K5-S2	920C-230-5K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2LABV.50NE	120 ± 5 °C		1600										
DN65		V2LABV.65NE		1600											
DN80		V2LABV.80NE		1600											
DN100		V2LABV.100NE		1600											
DN125		V2LABV.125NE		1600											
DN150		V2LABV.150NE					1600								
DN200		V2LABV.200NE					1600								
DN250		V2LABV.250NE					1600								
DN300		V2LABV.300NE					1600								
DN350		V2LABV.350NE								1600					
DN400		V2LABV.400NE								1600					
DN450		V2LABV.450NE								1600					
DN500		V2LABV.500NE										1600			
DN600		V2LABV.600NE											1600		
DN700		V2LABV.700NE											1600		
DN800		V2LABV.800NE											1600		



LUG TYPE, PN16, STAINLESS STEEL DISK, BUTTERFLY VALVES AND 920 ACTUATORS

Disk Material: SS304				920 On/Off Actuators											
				Picture											
Valve size	Operational pressure	Order code	Temperature	Power supply	230V AC										
				Torque (Nm)	50	100	160	500	800	1300	1700	2000	3500	5000	
				Order Code	920-230-50-S2	920-230-100-S2	920-230-160-S2	920-230-500-S2	920-230-800-S2	920-230-1K3-S2	920-230-1K7-S2	920-230-2K-S2	920-230-3K5-S2	920-230-5K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2LABV.50SE	120 ± 5 °C		1600										
DN65		V2LABV.65SE		1600											
DN80		V2LABV.80SE		1600											
DN100		V2LABV.100SE		1600											
DN125		V2LABV.125SE		1600											
DN150		V2LABV.150SE		1600											
DN200		V2LABV.200SE		1600											
DN250		V2LABV.250SE							1600						
DN300		V2LABV.300SE							1600						
DN350		V2LABV.350SE							1600						
DN400		V2LABV.400SE							1600						
DN450		V2LABV.450SE												1600	
DN500		V2LABV.500SE												1600	
DN600		V2LABV.600SE												1600	
DN700		V2LABV.700SE												1600	
DN800		V2LABV.800SE												1600	
Disk Material: SS304				920C Modulating Actuators											
Valve size	Operational pressure	Order code	Temperature	Order Code	920C-230-50	920C-230-100-S2	920C-230-160-S2	920C-230-500-S2	920C-230-800-S2	920C-230-1K3-S2	920C-230-1K7-S2	920C-230-2K-S2	920C-230-3K5-S2	920C-230-5K-S2	
					Close-Off pressure, max (kPa)										
DN50	PN16	V2LABV.50SE	120 ±5 °C		1600										
DN65		V2LABV.65SE		1600											
DN80		V2LABV.80SE		1600											
DN100		V2LABV.100SE		1600											
DN125		V2LABV.125SE		1600											
DN150		V2LABV.150SE		1600											
DN200		V2LABV.200SE		1600											
DN250		V2LABV.250SE							1600						
DN300		V2LABV.300SE							1600						
DN350		V2LABV.350SE							1600						
DN400		V2LABV.400SE							1600						
DN450		V2LABV.450SE												1600	
DN500		V2LABV.500SE												1600	
DN600		V2LABV.600SE												1600	
DN700		V2LABV.700SE												1600	
DN800		V2LABV.800SE												1600	



**FAN COIL UNIT VALVE (FCU)
2 & 3 WAY**

Characteristic	Valve Size	Operational Pressure	Picture	Order Code	Flow range (m³/h)	Change off Pressure, max. (KPa)	Fluid Temperature, max
2 - Way Valve	DN15	PN16		V2Z230.15	2.2	200	1 to 95 °C
	DN20			V2Z230.20	3.0	180	
	DN25			V2Z230.25	6.5	150	
	DN32			V2Z230.32	10.0	100	
3 - Way Valve	DN15	PN16		V3Z230.15	2.6	200	1 to 95 °C
	DN20			V3Z230.20	3.4	180	
	DN25			V3Z230.25	6.9	150	

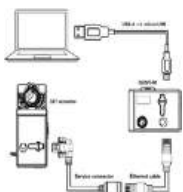
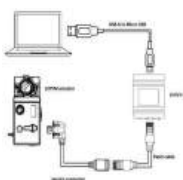


VARIABLE AIR VOLUME (VAV) ROOM UNIT

Measured	Application	Power Supply	Picture	Description	Order Code	Output (s)	Communication	Installation type	Default Measuring Range	Protection
VAV Room Unit Sensors	VAV Room Control	230 V AC		230 V, Dry contact and External Sensor	CRF1-T-VAV03	2 × 0 – 10 V	N/A	Flush Mounting	-	IP30
		24 V AC/DC		24 V, Dry Contact and External Sensor	CRF1-T-VAV02	1 × 0 – 10 V	N/A		-	
				24 V, Dry Contact and External Sensor	CRF9-T-VAV02M	1 × 0 – 10 V	Modbus		-	
				24 V, VAV model, output External sensor	CRF9-T-VAV02B	0 – 10 V	BACnet		-10 °C to +100 °C (+14 °F to +212 °F)	

ROOM UNITS - FAN COIL THERMOSTATS

Application	Power Supply	Communication	Housing	Picture	Order Code	2/4 Pipe FCU	Outputs / Inputs	Measuring Range	Accuracy	IP Rating
Fan Coil Application	230 V AC	BACnet	Flush Mount		CRF9-T-FC01B	2/4 Pipe	230 V / 3 Steps 230 V / 2 × ON / OFF Inputs 1 × NTC 10K N/O Contact	5 - 35 °C	± 1 °C	IP30
					CRF9-T-FC03B	2/4 Pipe	230 V / 3 Steps 2 × 0 – 10 V Inputs 1 × NTC 10K N/O Contact			
		MODbus	Surface Mount		CRW9-T-FC01M	2/4 Pipe	230 V / 3 Steps 230 V / 2 × ON/OFF Inputs 1 × NTC 10K N/O Contact			
					CRW9-T-FC03M	2/4 Pipe	230 V / 3 Steps 2 × 0 – 10 V Inputs 1 × NTC 10K N/O Contact			
	24 V AC	N/A	Surface Mount		CRW1-T-FC03	2/4 Pipe	230 V / 3 Steps 2 × 0 – 10 V Inputs 1 × NTC 10K -----			
					CRW1-T-FC04	2/4 Pipe	EC Fan 0 – 10 V 230 V / 2 × ON/OFF Inputs 1 × NTC 10K -----			
	230 V AC	N/A			CRW1-T-FC01	2/4 Pipe	230 V / 3 Steps 230 V / 2 × ON/OFF Inputs 1 × NTC 10K N/O Contact			
					CRW1-T-FC05	2/4 Pipe	EC Fan 0 – 10 V 230 V / 2 × ON/OFF Inputs 1 × NTC 10K N/O Contact			
					CRW1-T-FC06	2 Pipe	EC Fan 0 – 10 V 1 × 0 – 10 V Inputs 1 × NTC 10K N/O Contact			
	24 V AC	N/A	Flush Mount		CRF1-T-FC03	2 Pipe	230 V / 3Steps 1 × 0 – 10 V Inputs 1 × NTC 10K N/O Contact			
					CRF1-T-FC04	2/4 Pipe	EC Fan 0 – 10 V 24 V / 2 × ON / OFF Inputs 1 × NTC 10K N/O Contact			

ACCESSORIES				
Products Series	Picture	Order Code	Description	Quantity per package
227 / 327 - Actuator Series		227/327-8E8	Form Fit inserts 8 × 8 mm	20 pieces
		227/327-8E10	Form Fit inserts 10 × 10 mm	20 pieces
		227/327-8E12	Form Fit inserts 12 × 12 mm	20 pieces
		227/327-ZS	Mounting Flange	10 pieces
		227/327-Indicator	Position Indicators	20 pieces
		227/327-Anti-Rotation	Anti-Rotation Bar	20 pieces
		227/327-Clamp	Universal Clamp (Ø 8 - 20 mm / ∅ 8 - 15 mm)	10 pieces
327 VAV Compact Actuator		GUIV3-M	Interface for parametrizing VAV actuators - parameter can be set with or without PC - including all necessary connection cables	1 piece
		Win-VAV2-A-Bundle	Interface for parametrizing VAV actuators in connection with a PC - including all necessary connection cables	1 piece
340 / 360 Series		TAE-72	Thermoelectric tripping device - 24 V AC/DC 72° Degree C trigger point - Status LED	1 piece
		TAE-92	Thermoelectric tripping device - 24 V AC/DC 92° Degree C trigger point - Status LED	1 piece
BFV Actuator Converter		SQ14-SQ11	BFV 910, 920 and 930 actuator converter square 14 outer to 11 inner	1 piece
		SQ17-SQ14	BFV 910, 920 and 930 actuator converter square 17 outer to 14 inner	1 piece
		SQ22-SQ17	BFV 910, 920 and 930 actuator converter square 22 outer to 17 inner	1 piece



ACCESSORIES

Products Series	Picture	Order Code	Description	Quantity per package
230 V DC / 24 V AC Transformer Series		UEA0G.A	24 V DC 30 VA / 1.25 A, White ABS	1 piece
		UEA0G.B	24 V DC 60 VA / 2.5 A, White ABS	1 piece
		UEA0G.E	24 V AC 18 W / 0.75 A, White ABS	1 piece
		UEA0G.F	24 V AC 30 W / 0.75 A, White ABS	1 piece
Potentiometer 0 – 10 V / 4 – 20 mA		UEA0G.P	0 – 10 V / 4 – 20 mA, White ABS	1 piece

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