



**Efficiency and
reliability in versatile
applications**



The complete product range of water applications

Edition 2025

50
YEARS

**Together
to the Top.**

BELIMO®

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Zone valves
Maximum comfort, minimum consumption

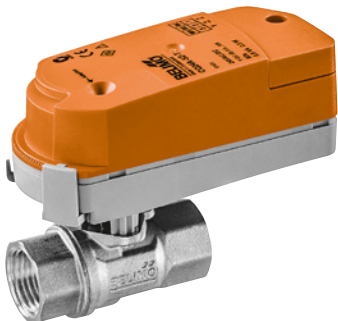
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Please refer to the data sheets or notes for project planning for further technical data to be observed.

DN 15...25

Non fail-safe actuators

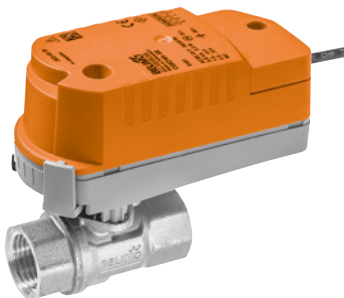
Field of use	Closed water circuit (pH >7)
Fluid temperature	2...90°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Equal percentage
Close-off pressure	Δp _s : 520 kPa
Max. differential pressure	Δp _{max} : 280 kPa
Permissible operating pressure	p _s : 1600 kPa



DN 15...25

Fail-safe actuators

Field of use	Closed water circuit (pH >7)
Fluid temperature	2...90°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Equal percentage
Close-off pressure	Δp _s : 520 kPa
Max. differential pressure	Δp _{max} : 280 kPa
Permissible operating pressure	p _s : 1600 kPa



Suitable actuators	Nominal torque	Open/close	3-point	Modulating (2...10 V)	Modulating (0.5...10 V)	Communication MP-Bus	Communication Modbus	Communication BACnet	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Actuator type	PN 25					
												DN 15		DN 20		DN 25	
												K _{vs} [m³/h]	Valve type	K _{vs} [m³/h]	Valve type	K _{vs} [m³/h]	Valve type
												0.09...1.2	C215Q-F	0.5...8	C220Q-K	0.5...7	C225Q-K
												0.4...4.8	C215Q-J	0.5...8	C220Q-K	0.5...7	C225Q-K
	Standard actuators											Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa
	1 Nm	■	■						24 V	15 s	CQD24A ¹⁾	520	280	520	280	520	280
		■	■							75 s	CQ24A	520	280	520	280	520	280
				■						15 s	CQD24A-SR ¹⁾	520	280	520	280	520	280
					■					75 s	CQ24A-SR	520	280	520	280	520	280
						■				15 s	CQD24A-SZ ¹⁾	520	280	520	280	520	280
							■			75 s	CQ24A-SZ	520	280	520	280	520	280
								■		15 s	CQD24A-MPL ¹⁾	520	280	520	280	520	280
										75 s	CQ24A-MPL	520	280	520	280	520	280
								■		15 s	CQD24A-BAC	520	280	520	280	520	280
								■		75 s	CQ24A-BAC	520	280	520	280	520	280
		■	■						230 V	15 s	CQD230A ¹⁾	520	280	520	280	520	280
		■	■							35 s	CQC230A ¹⁾	520	280	520	280	520	280
		■	■							75 s	CQ230A	520	280	520	280	520	280
			Standard actuators with connecting terminals											Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa
1 Nm	■		■						24 V	15 s	CQD24A-T ¹⁾	520	280	520	280	520	280
	■		■							75 s	CQ24A-T	520	280	520	280	520	280
				■						15 s	CQD24A-SR-T ¹⁾	520	280	520	280	520	280
					■					75 s	CQ24A-SR-T	520	280	520	280	520	280
						■				15 s	CQD24A-SZ-T ¹⁾	520	280	520	280	520	280
							■			75 s	CQ24A-SZ-T	520	280	520	280	520	280
								■		15 s	CQD24A-MPL-T	520	280	520	280	520	280
								■		75 s	CQ24A-MPL-T	520	280	520	280	520	280
	■		■						230 V		CQ230A-T	520	280	520	280	520	280

¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.

Suitable actuators	Nominal torque	Open/close	Modulating (2...10 V)	Modulating (0.5...10 V)	Communication MP-Bus	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Actuator type	PN 25					
									DN 15		DN 20		DN 25	
									K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type
									0.09...1.2	C215Q-F	0.5...8	C220Q-K	0.5...7	C225Q-K
									0.4...4.8	C215Q-J	0.5...8	C220Q-K	0.5...7	C225Q-K
	Fail-safe actuators NC/NO ²⁾								Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa
	1 Nm	■	—	—	—	24 V	15 s	CQKD24A ¹⁾	520	280	520	280	520	280
		■	—	—	—		75 s	CQK24A	520	280	520	280	520	280
		—	■	—	—		15 s	CQKD24A-SR ¹⁾	520	280	520	280	520	280
		—	■	—	—		75 s	CQK24A-SR	520	280	520	280	520	280
		—	—	■	—	15 s	CQKD24A-SZ.1 ^{1) 3)}	520	280	520	280	520	280	
		—	—	■	—	75 s	CQK24A-SZ.1 ³⁾	520	280	520	280	520	280	
		—	—	—	■	CQK24A-MPL	520	280	520	280	520	280		
		■	—	—	—	230 V	15 s	CQKD230A ¹⁾	520	280	520	280	520	280
		■	—	—	—		75 s	CQK230A	520	280	520	280	520	280
	Fail-safe actuators NC/NO ²⁾ with connecting terminals								Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa
	1 Nm	■	—	—	—	24 V	75 s	CQK24A-T	520	280	520	280	520	280
		—	■	—	—			CQK24A-SR-T	520	280	520	280	520	280
		—	—	■	—			CQK24A-MPL-T	520	280	520	280	520	280
		■	—	—	—			CQK230A-T	520	280	520	280	520	280
—	—	—	—	230 V	—	—	—	—	—	—	—	—		

¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.

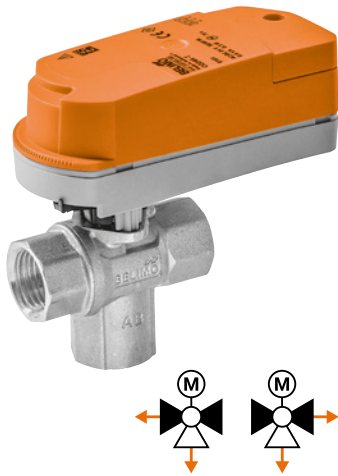
²⁾ Fail-safe actuator: The fail-safe position is NC (normally closed). The NO (normally open) version is available on request.

³⁾ Actuator is delivered in multipack with 36 pieces.

DN 15...25

Non fail-safe actuators

Field of use	Closed water circuit (pH >7)
Fluid temperature	2...90°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Close-off pressure	Δp _s : 280 kPa
Max. differential pressure	Δp _{max} : 280 kPa
Permissible operating pressure	p _s : 1600 kPa



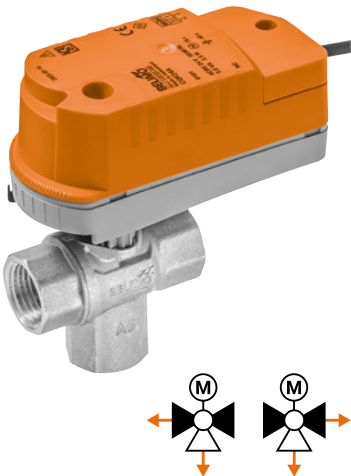
Suitable Actuators		Nominal torque	Open/close	3-point	Communication MP-Bus	Communication Modbus	Communication BACnet	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Actuator type	PN 25						
											DN 15		DN 20		DN 25		
											K _{vs} [m³/h]	Valve type	K _{vs} [m³/h]	Valve type	K _{vs} [m³/h]	Valve type	
											2.5	C315Q-H	4	C320Q-J	4	C325Q-J	
												Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa
Standard actuators																	
	1 Nm	■	■	—	—	—	24 V	15 s	CQD24A ¹⁾	280	280	280	280	280	280		
		■	■	—	—	—		75 s	CQ24A	280	280	280	280	280	280		
		—	—	■	—	—		15 s	CQD24A-MPL ¹⁾	280	280	280	280	280	280		
		—	—	■	—	—		75 s	CQ24A-MPL	280	280	280	280	280	280		
		—	—	—	■	■	230 V	15 s	CQ24A-BAC	280	280	280	280	280	280		
		■	■	—	—	—		75 s	CQD230A ¹⁾	280	280	280	280	280	280		
		■	■	—	—	—		35 s	CQC230A ¹⁾	280	280	280	280	280	280		
		■	■	—	—	—		75 s	CQ230A	280	280	280	280	280	280		
Standard actuators with connecting terminals																	
	1 Nm	■	■	—	—	—	24 V	15 s	CQD24A-T ¹⁾	280	280	280	280	280	280		
		■	■	—	—	—		75 s	CQ24A-T	280	280	280	280	280	280		
		—	—	■	—	—	230 V	75 s	CQ24A-MPL-T	280	280	280	280	280	280		
		■	■	—	—	—		75 s	CQ230A-T	280	280	280	280	280	280		

¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.

DN 15...25

Fail-safe actuators

Field of use	Closed water circuit (pH >7)
Fluid temperature	2...90°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Close-off pressure	Δp _s : 280 kPa
Max. differential pressure	Δp _{max} : 280 kPa
Permissible operating pressure	p _s : 1600 kPa



Suitable actuators	Nominal torque	Open/close	Communication MP-Bus	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Actuator type	→ PN 25					
							DN 15		DN 20		DN 25	
							K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type
							2.5	C315Q-H	4	C320Q-J	4	C325Q-J
							Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa
Fail-safe actuators NC/NO ²⁾												
CQK... 	1 Nm	■	—	24 V	15 s	CQKD24A ¹⁾	280	280	280	280	280	280
		■	—		75 s	CQK24A	280	280	280	280	280	280
		—	■		15 s	CQKD24A-MPL ¹⁾	280	280	280	280	280	280
		—	■		75 s	CQK24A-MPL	280	280	280	280	280	280
		■	—	230 V	15 s	CQKD230A ¹⁾	280	280	280	280	280	280
		■	—		75 s	CQK230A	280	280	280	280	280	280
Fail-safe actuators NC/NO ²⁾ with connecting terminals												
CQK...-T 	1 Nm	■	—	24 V	75 s	CQK24A-T	280	280	280	280	280	280
		—	■			CQK24A-MPL-T	280	280	280	280	280	280
		■	—	230 V		CQK230A-T	280	280	280	280	280	280

¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.
²⁾ Fail-safe actuator: The fail-safe position is NC (normally closed). The NO (normally open) version is available on request.

DN 15/20

Non fail-safe actuators

Field of use	Closed water circuit (pH >7)
Fluid temperature	2...90°C
Pipe connection	External thread G (ISO 228-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Equal percentage
Close-off pressure	Δp_s : 520 kPa
Max. differential pressure	Δp_{max} : 280 kPa
Permissible operating pressure	p_s : 1600 kPa



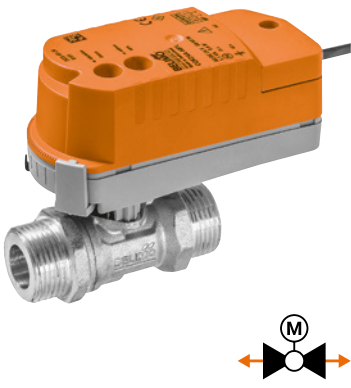
Suitable actuators	Nominal torque	Open/close	3-point	Modulating (2...10 V)	Modulating (0.5...10 V)	Communication MP-Bus	Communication Modbus	Communication BACnet	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Actuator type	PN 25			
												DN 15		DN 20	
												K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type
												0.4...4.5	C415Q-J	0.5...7.8	C420Q-K
		Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa										
Standard actuators															
	1 Nm	■	■						24 V	15 s	CQD24A ¹⁾	520	280	520	280
		■	■							75 s	CQ24A	520	280	520	280
				■						15 s	CQD24A-SR ¹⁾	520	280	520	280
				■						75 s	CQ24A-SR	520	280	520	280
					■					15 s	CQD24A-SZ ¹⁾	520	280	520	280
					■					75 s	CQ24A-SZ	520	280	520	280
						■			230 V	15 s	CQD24A-MPL ¹⁾	520	280	520	280
						■				75 s	CQ24A-MPL	520	280	520	280
							■			15 s	CQD24A-BAC	520	280	520	280
								■		75 s	CQ24A-BAC	520	280	520	280
		■	■							15 s	CQD230A ¹⁾	520	280	520	280
		■	■							35 s	CQC230A ¹⁾	520	280	520	280
		■	■					75 s	CQ230A	520	280	520	280		
Standard actuators with connecting terminals															
	1 Nm	■	■						24 V	15 s	CQD24A-T ¹⁾	520	280	520	280
		■	■							75 s	CQ24A-T	520	280	520	280
				■						15 s	CQD24A-SR-T ¹⁾	520	280	520	280
				■						75 s	CQ24A-SR-T	520	280	520	280
					■				230 V	15 s	CQD24A-SZ-T ¹⁾	520	280	520	280
					■					75 s	CQ24A-SZ-T	520	280	520	280
						■				15 s	CQD24A-MPL-T ¹⁾	520	280	520	280
						■				75 s	CQ24A-MPL-T	520	280	520	280
				■	■					15 s	CQD230A-T ¹⁾	520	280	520	280
				■	■					35 s	CQC230A-T ¹⁾	520	280	520	280
								75 s	CQ230A	520	280	520	280		

¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.

DN 15/20

Fail-safe actuators

Field of use	Closed water circuit (pH >7)
Fluid temperature	2...90°C
Pipe connection	External thread G (ISO 228-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Equal percentage
Close-off pressure	Δp_s : 520 kPa
Max. differential pressure	Δp_{max} : 280 kPa
Permissible operating pressure	p_s : 1600 kPa



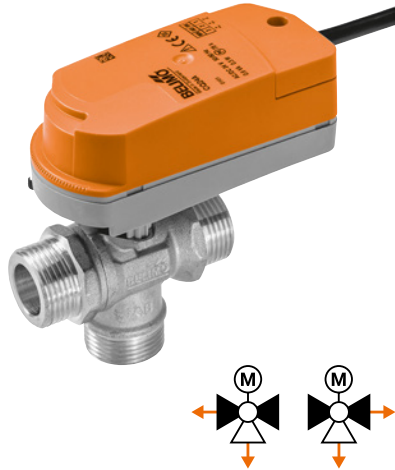
									PN 25			
									DN 15		DN 20	
Suitable actuators	Nominal torque	Open/close	Modulating (2...10 V)	Modulating (0.5...10 V)	Communication MP-Bus	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Actuator type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type
									0.4...4.5	C415Q-J	0.5...7.8	C420Q-K
									Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa
Fail-safe actuators NC/NO ²⁾												
	1 Nm	■	—	—	—	24 V	15 s	CQKD24A ¹⁾	520	280	520	280
		■	—	—	—		75 s	CQK24A	520	280	520	280
		—	■	—	—		15 s	CQKD24A-SR ¹⁾	520	280	520	280
		—	■	—	—		75 s	CQK24A-SR	520	280	520	280
		—	—	■	—		15 s	CQKD24A-SZ.1 ^{1) 3)}	520	280	520	280
		—	—	■	—		75 s	CQK24A-SZ.1 ³⁾	520	280	520	280
		—	—	—	■	230 V	15 s	CQK24A-MPL	520	280	520	280
		■	—	—	—		75 s	CQKD230A ¹⁾	520	280	520	280
		■	—	—	—		75 s	CQK230A	520	280	520	280
		Fail-safe actuators NC/NO ²⁾ with connecting terminals										
	1 Nm	■	—	—	—	24 V	75 s	CQK24A-T	520	280	520	280
		—	■	—	—			CQK24A-SR-T	520	280	520	280
		—	—	—	■	230 V		CQK24A-MPL-T	520	280	520	280
		■	—	—	—			CQK230A-T	520	280	520	280

¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.
²⁾ Fail-safe actuator: The fail-safe position is NC (normally closed). The NO (normally open) version is available on request.
³⁾ Actuator is delivered in multipack with 36 pieces.

DN 15/20

Non fail-safe actuators

Field of use	Closed water circuit (pH >7)
Fluid temperature	2...90°C
Pipe connection	External thread G (ISO 228-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Close-off pressure	Δp_s : 280 kPa
Max. differential pressure	Δp_{max} : 280 kPa
Permissible operating pressure	p_s : 1600 kPa



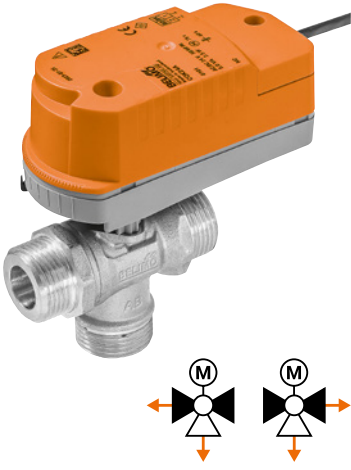
										PN 25				
										DN 15		DN 20		
										K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	
										2.3	C515Q-H	3.6	C520Q-J	
										Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	
Suitable actuators	Nominal torque	Open/close	3-point	Communication MP-Bus	Communication Modbus	Communication BACnet	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Actuator type					
Standard actuators														
CQ.. 	1 Nm	■	■	—	—	—	24 V	15 s	CQD24A ¹⁾	280	280	280	280	
		■	■	—	—	—		75 s	CQ24A	280	280	280	280	
		—	—	■	—	—		15 s	CQD24A-MPL ¹⁾	280	280	280	280	
		—	—	■	—	—		75 s	CQ24A-MPL	280	280	280	280	
		—	—	—	■	■	CQ24A-BAC	280	280	280	280	280		
		■	■	—	—	—	230 V	15 s	CQD230A ¹⁾	280	280	280	280	
		■	■	—	—	—		35 s	CQC230A ¹⁾	280	280	280	280	
		■	■	—	—	—		75 s	CQ230A	280	280	280	280	
		Standard actuators with connecting terminals												
CQ...T 	1 Nm	■	■	—	—	—	24 V	15 s	CQD24A-T ¹⁾	280	280	280	280	
		■	■	—	—	—		CQ24A-T	280	280	280	280		
		—	—	■	—	—	230 V	75 s	CQ24A-MPL-T	280	280	280	280	
		■	■	—	—	—		CQ230A-T	280	280	280	280		

¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.

DN 15/20

Fail-safe actuators

Field of use	Closed water circuit (pH >7)
Fluid temperature	2...90°C
Pipe connection	External thread G (ISO 228-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Close-off pressure	Δp_s : 280 kPa
Max. differential pressure	Δp_{max} : 280 kPa
Permissible operating pressure	p_s : 1600 kPa



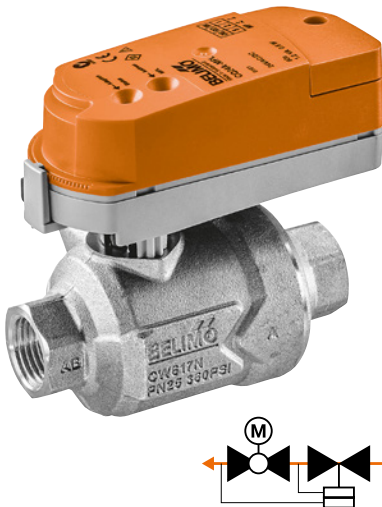
Suitable actuators	Nominal torque	Open/close	Communication MP-Bus	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Actuator type	PN 25			
							DN 15		DN 20	
							K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type
							2.3	C515Q-H	3.6	C520Q-J
							Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa
	1 Nm	Fail-safe actuators NC/NO ²⁾								
		■	—	15 s	CQKD24A ¹⁾	280	280	280	280	
		■	—	75 s	CQK24A	280	280	280	280	
		—	■	15 s	CQKD24A-MPL ¹⁾	280	280	280	280	
		—	■	75 s	CQK24A-MPL	280	280	280	280	
		■	—	15 s	CQKD230A ¹⁾	280	280	280	280	
		■	—	75 s	CQK230A	280	280	280	280	
	1 Nm	Fail-safe actuators NC/NO ²⁾ with connecting terminals								
		■	—	24 V	CQK24A-T	280	280	280	280	
		—	■	75 s	CQK24A-MPL-T	280	280	280	280	
		■	—	230 V	CQK230A-T	280	280	280	280	
		—	—							

¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.
²⁾ Fail-safe actuator: The fail-safe position is NC (normally closed). The NO (normally open) version is available on request.

DN 15...25

Non fail-safe actuators

Field of use	Closed water circuit (pH >7)
Fluid temperature	2...90°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Equal percentage
Close-off pressure	Δp _s : 1400 kPa
Max. differential pressure	Δp _{max} : 350 kPa
Permissible operating pressure	p _s : 1600 kPa



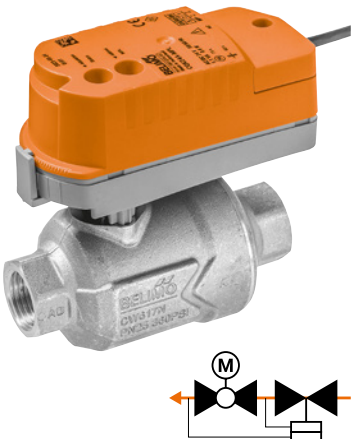
		PN 25					
		DN 15		DN 20		DN 25	
Suitable actuators	Nominal torque	V' _{nom} [l/h]	Valve type	V' _{nom} [l/h]	Valve type	V' _{nom} [l/h]	Valve type
	Open/close	210	C215QP-B C215QPT-B	980	C220QP-F C220QPT-F	2100	C225QPT-G
	3-point	420	C215QP-D C215QPT-D				
	Modulating (2...10 V) Modulating (0.5...10 V) Communication MP-Bus Communication Modbus Communication BACnet	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa
CQ..	1 Nm	Standard actuators					
		15 s	CQD24A ¹⁾	1400	350	1400	350
		75 s	CQ24A	1400	350	1400	350
		15 s	CQD24A-SR ¹⁾	1400	350	1400	350
		75 s	CQ24A-SR	1400	350	1400	350
		15 s	CQD24A-SZ ¹⁾	1400	350	1400	350
	24 V	75 s	CQ24A-SZ	1400	350	1400	350
		15 s	CQD24A-MPL ¹⁾	1400	350	1400	350
		75 s	CQ24A-MPL	1400	350	1400	350
		15 s	CQD24A-BAC	1400	350	1400	350
		75 s	CQ24A-BAC	1400	350	1400	350
		15 s	CQD230A ¹⁾	1400	350	1400	350
CQ..-T	1 Nm	35 s	CQC230A ¹⁾	1400	350	1400	350
		75 s	CQ230A	1400	350	1400	350
		15 s	CQD24A-T ¹⁾	1400	350	1400	350
		75 s	CQ24A-T	1400	350	1400	350
		15 s	CQD24A-SR-T ¹⁾	1400	350	1400	350
		75 s	CQ24A-SR-T	1400	350	1400	350
	24 V	15 s	CQD24A-SZ-T ¹⁾	1400	350	1400	350
		75 s	CQ24A-SZ-T	1400	350	1400	350
		15 s	CQD24A-MPL-T	1400	350	1400	350
		75 s	CQ24A-MPL-T	1400	350	1400	350
		15 s	CQD230A-T	1400	350	1400	350
		75 s	CQ230A-T	1400	350	1400	350

¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.

DN 15...25

Fail-safe actuators

Field of use	Closed water circuit (pH >7)
Fluid temperature	2...90°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Equal percentage
Close-off pressure	Δp _s : 1400 kPa
Max. differential pressure	Δp _{max} : 350 kPa
Permissible operating pressure	p _s : 1600 kPa



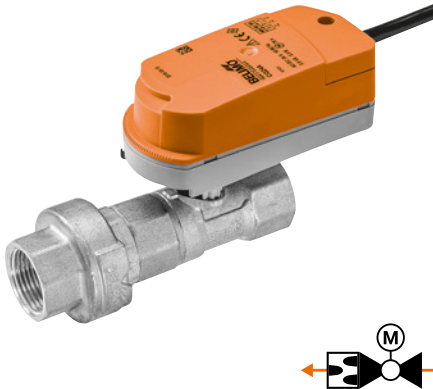
		PN 25					
		DN 15		DN 20		DN 25	
Suitable actuators	Nominal torque	V' _{nom} [l/h]	Valve type	V' _{nom} [l/h]	Valve type	V' _{nom} [l/h]	Valve type
	Open/close	210	C215QP-B C215QPT-B	980	C220QP-F C220QPT-F	2100	C225QPT-G
	3-point	420	C215QP-D C215QPT-D				
	Modulating (2...10 V) Modulating (0.5...10 V) Communication MP-Bus Communication Modbus Communication BACnet	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa
CQK..	1 Nm	Fail-safe actuators NC/NO ²⁾					
		15 s	CQKD24A ¹⁾	1400	350	1400	350
		75 s	CQK24A	1400	350	1400	350
		15 s	CQKD24A-SR ¹⁾	1400	350	1400	350
		75 s	CQK24A-SR	1400	350	1400	350
		15 s	CQKD24A-SZ.1 ^{1) 3)}	1400	350	1400	350
	24 V	75 s	CQK24A-SZ	1400	350	1400	350
		15 s	CQKD24A-MPL ¹⁾	1400	350	1400	350
		75 s	CQK24A-MPL	1400	350	1400	350
		15 s	CQKD230A ¹⁾	1400	350	1400	350
		75 s	CQK230A	1400	350	1400	350
		Fail-safe actuators NC/NO ²⁾ with connecting terminals					
CQK..-T	1 Nm	15 s	CQK24A-T	1400	350	1400	350
		75 s	CQK24A-SR-T	1400	350	1400	350
		15 s	CQK24A-MPL-T	1400	350	1400	350
		75 s	CQK230A-T	1400	350	1400	350

¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.
²⁾ Fail-safe actuator: The fail-safe position is NC (normally closed). The NO (normally open) version is available on request.
³⁾ Actuator is delivered in multipack with 36 pieces.

DN 15...25

Non fail-safe actuators

Field of use	Closed water circuit (pH >7)
Fluid temperature	2...60°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Close-off pressure	Δp_s : 520 kPa
Max. differential pressure	Δp_{max} : 280 kPa
Permissible operating pressure	p_s : 1600 kPa



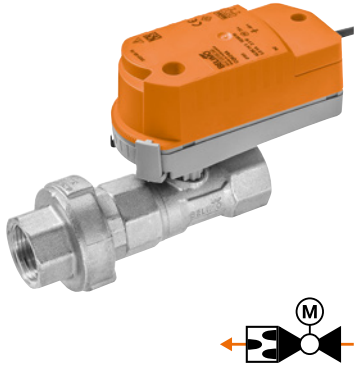
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¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.

DN 15...25

Fail-safe actuators

Field of use	Closed water circuit (pH >7)
Fluid temperature	2...60°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Close-off pressure	Δp_s : 520 kPa
Max. differential pressure	Δp_{max} : 280 kPa
Permissible operating pressure	p_s : 1600 kPa

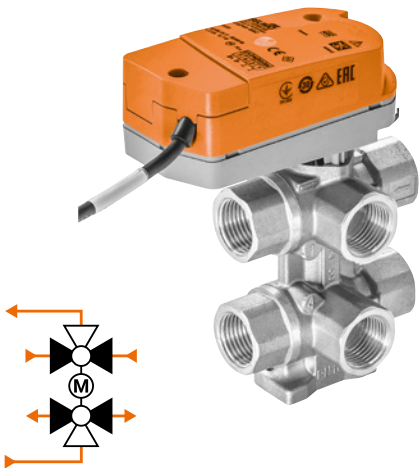


Suitable actuators	Nominal torque	Open/close	Communication MP-Bus	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Actuator type	PN 25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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¹⁾ Fast running actuators: observe the noise level according to the associated data sheet.
²⁾ Fail-safe actuator: The fail-safe position is NC (normally closed). The NO (normally open) version is available on request.

DN 15

Field of use	Closed water circuit (pH >7)
Fluid temperature	6...80°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Linear: Sequence I: 0...30° Dead zone: 30...60° Sequence II: 60...90°
Close-off pressure	Δp _s : 350 kPa
Max. differential pressure	Δp _{max} : 100 kPa
Permissible operating pressure	p _s : 1600 kPa



Suitable actuators	Nominal torque	Modulating (2...10 V)	Modulating (0.5...10 V)	Communication MP-Bus	Communication Modbus	Communication BACnet	Nominal voltage AC/DC 24 V	Running time motor 90°	Actuator type		PN 16			PN 16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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DN 15

Field of use

Closed water circuit (pH >7)

Fluid temperature

6...80°C

Pipe connection

Internal thread Rp (ISO 7-1)

Leakage rate

Air-bubble tight, leakage rate A (EN 12266-1)

Flow characteristic

Linear: Sequence I: 0...30°
Dead zone: 30...60°
Sequence II: 60...90°

Close-off pressure

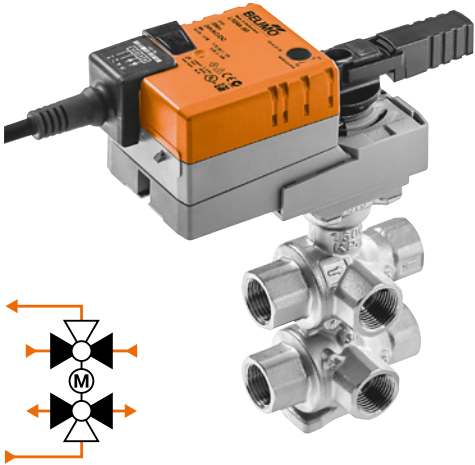
Δp_s: 350 kPa

Max. differential pressure

Δp_{max}: 100 kPa

Permissible operating pressure

p_s: 1600 kPa

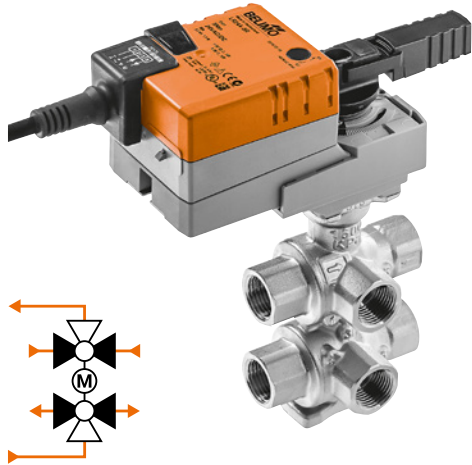


												PN 16		PN 16																						
												DN 15				DN 15																				
Suitable actuators	Nominal torque	Modulating (2...10 V)	Modulating (0.5...10 V)	Communication MP-Bus	Communication Modbus	Communication BACnet	Communication KNX	Nominal voltage AC/DC 24 V	Running time motor 90°	Actuator type	K _{vs} [m³/h] Se- quence I	K _{vs} [m³/h] Se- quence II	Valve type	K _{vs} [m³/h] Se- quence I	K _{vs} [m³/h] Se- quence II	Valve type	K _{vs} [m³/h] Se- quence I	K _{vs} [m³/h] Se- quence II	Valve type	K _{vs} [m³/h] Se- quence I	K _{vs} [m³/h] Se- quence II	Valve type	K _{vs} [m³/h] Se- quence I	K _{vs} [m³/h] Se- quence II	Valve type											
											0.25	0.25	R3015-P25-P25-B2	0.4	0.25	R3015-P4-P25-B2	0.63	0.25	R3015-P63-P25-B2	1	0.25	R3015-1-P25-B2	1.3	0.25	R3015-1P3-P25-B2	1.8	0.25	R3015-1P8-P25-B2								
												0.4	R3015-P25-P4-B2		0.4	R3015-P4-P4-B2		0.4	R3015-P63-P4-B2		0.4	R3015-1-P4-B2		0.4	R3015-1P3-P4-B2		0.4	R3015-1P8-P4-B2								
												0.63	R3015-P25-P63-B2		0.63	R3015-P4-P63-B2		0.63	R3015-P63-P63-B2		0.63	R3015-1-P63-B2		0.63	R3015-1P3-P63-B2		0.63	R3015-1P8-P63-B2								
												1	R3015-P25-1-B2		1	R3015-P4-1-B2		1	R3015-P63-1-B2		1	R3015-1-1-B2		1	R3015-1P3-1-B2		1	R3015-1P8-1-B2								
												1.3	R3015-P25-1P3-B2		1.3	R3015-P4-1P3-B2		1.3	R3015-P63-1P3-B2		1.3	R3015-1-1P3-B2		1.3	R3015-1P3-1P3-B2		1.3	R3015-1P8-1P3-B2								
												1.8	R3015-P25-1P8-B2		1.8	R3015-P4-1P8-B2		1.8	R3015-P63-1P8-B2		1.8	R3015-1-1P8-B2		1.8	R3015-1P3-1P8-B2		1.8	R3015-1P8-1P8-B2								
Δp _s kPa	Δp _{max} kPa		Δp _s kPa	Δp _{max} kPa		Δp _s kPa	Δp _{max} kPa		Δp _s kPa	Δp _{max} kPa		Δp _s kPa	Δp _{max} kPa																							
Standard actuators																																				
LR..	5 Nm	■	■	■	■	■	■	24 V	90 s	■	LR24A-SR	350	100	350	100	350	100	350	100	350	100	350	100	350	100	350	100									
											LR24A-SZ	350	100	350	100	350	100	350	100	350	100	350	100	350	100											
											LR24A-MP ¹⁾	350	100	350	100	350	100	350	100	350	100	350	100	350	100											
											LR24A-MOD	350	100	350	100	350	100	350	100	350	100	350	100	350	100											
											LR24A-KNX	350	100	350	100	350	100	350	100	350	100	350	100	350	100											
VLR..	5 Nm	■	■	■	■	■	■	24 V	90 s	■	VLR24A-LP1	350	100	350	100	350	100	350	100	350	100	350	100	350	100	350	100									
											Standard actuators with connecting terminals																									
											LR...T	5 Nm	■	■	■	■	■	■	24 V	90 s	■	LR24A-SR-TP	350	100	350	100	350	100	350	100	350	100	350	100	350	100
																						LR24A-SZ-TP	350	100	350	100	350	100	350	100	350	100	350	100	350	100
																						LR24A-MP-TP ¹⁾	350	100	350	100	350	100	350	100	350	100	350	100	350	100

¹⁾ Control, operating range, feedback, running time, and other functions configurable on MP types with Belimo Assistant 2.

DN 20

Field of use	Closed water circuit (pH >7)
Fluid temperature	6...80°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Linear: Sequence I: 0...30° Dead zone: 30...60° Sequence II: 60...90°
Close-off pressure	Δp_s : 350 kPa
Max. differential pressure	Δp_{max} : 100 kPa
Permissible operating pressure	p_s : 1600 kPa

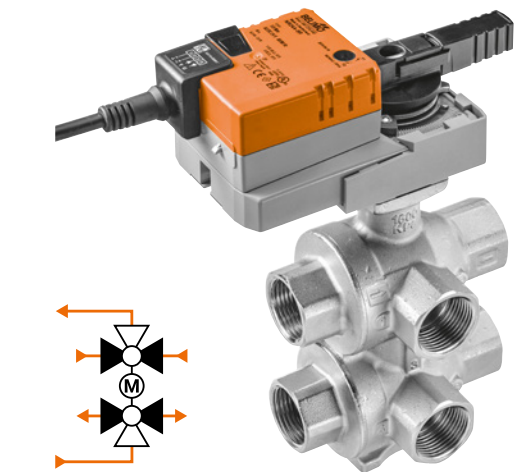


Suitable actuators Nominal torque Modulating (2...10 V) Modulating (0.5...10 V) Communication MP-Bus Communication Modbus Communication BACnet Communication KNX Nominal voltage AC/DC 24 V Running time motor 90° Actuator type										PN 16						PN 16								
										DN 20						DN 20								
										K_{vs} [m³/h] Se- quence I	K_{vs} [m³/h] Se- quence II	Valve type	K_{vs} [m³/h] Se- quence I	K_{vs} [m³/h] Se- quence II	Valve type	K_{vs} [m³/h] Sequence I	K_{vs} [m³/h] Sequence II	Valve type	K_{vs} [m³/h] Sequence I	K_{vs} [m³/h] Sequence II	Valve type	K_{vs} [m³/h] Sequence I	K_{vs} [m³/h] Sequence II	Valve type
										0.63	1.6 2.5 4	R3020-P63-1P6-B2 R3020-P63-2P5-B2 R3020-P63-4-B2	1	1.6 2.5 4	R3020-1-1P6-B2 R3020-1-2P5-B2 R3020-1-4-B2	1.6	0.63 1 1.6 2.5 4	R3020-1P6-P63-B2 R3020-1P6-1-B2 R3020-1P6-1P6-B2 R3020-1P6-2P5-B2 R3020-1P6-4-B2	2.5	0.63 1 1.6 2.5 4	R3020-2P5-P63-B2 R3020-2P5-1-B2 R3020-2P5-1P6-B2 R3020-2P5-2P5-B2 R3020-2P5-4-B2	4	0.63 1 1.6 2.5 4	R3020-4-P63-B2 R3020-4-1-B2 R3020-4-1P6-B2 R3020-4-2P5-B2 R3020-4-4-B2
		Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa											
Standard actuators																								
	5 Nm	☒	☒	☐	☐	☐	24 V	90 s	LR24A-SR	350	100	350	100	350	100	350	100							
		☒	☐	☐	☐	☐			LR24A-SZ	350	100	350	100	350	100	350	100							
		☒	☐	☒	☐	☐			LR24A-MP ¹⁾	350	100	350	100	350	100	350	100							
		☒	☐	☒	☒	☐			LR24A-MOD	350	100	350	100	350	100	350	100							
		☒	☐	☐	☐	☒			LR24A-KNX	350	100	350	100	350	100	350	100							
	5 Nm	☒	☐	☐	☐	☐	24 V	90 s	VLR24A-LP1	350	100	350	100	350	100	350	100							
		Standard actuators with connecting terminals																						
		☒	☒	☐	☐	☐			LR24A-SR-TP	350	100	350	100	350	100	350	100							
		☒	☐	☐	☐	☐			LR24A-SZ-TP	350	100	350	100	350	100	350	100							
		☒	☒	☐	☐	☐			LR24A-MP-TP ¹⁾	350	100	350	100	350	100	350	100							
LR...T		☐	☐	☐	☐	☐																		

¹⁾ Control, operating range, feedback, running time, and other functions are adjustable on MP types with Belimo Assistant 2

DN 25

Field of use	Closed water circuit (pH >7)
Fluid temperature	6...80°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Linear: Sequence I: 0...30° Dead zone: 30...60° Sequence II: 60...90°
Close-off pressure	Δp _s : 350 kPa
Max. differential pressure	Δp _{max} : 100 kPa
Permissible operating pressure	p _s : 1600 kPa

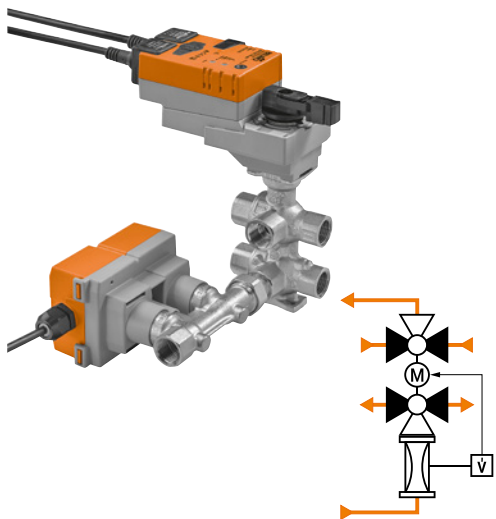


Suitable actuators	Nominal torque	Modulating (2...10 V)	Modulating (0.5...10 V)	Communication MP-Bus	Communication Modbus	Communication BACnet	Communication KNX	Nominal voltage AC/DC 24 V	Running time motor 90°	Actuator type	→				
											PN 16				
											DN 25				
											K _{VS} [m³/h] Sequence I	K _{VS} [m³/h] Sequence II	Valve type		
											6.3	6.3	R3025-6P3-6P3-B3		
											Δp _s kPa		Δp _{max} kPa		
Standard actuators															
NR.. 	10 Nm	■	■	—	—	—	—	24 V	90 s	NR24A-SR	350	100			
		■	—	■	—	—	—			NR24A-SZ	350	100			
		■	—	■	■	■	—			NR24A-MP ¹⁾	350	100			
		■	—	—	—	—	■			NR24A-MOD	350	100			
		■	—	—	■	■	—			NR24A-KNX	350	100			
VNR.. 	10 Nm	■	—	—	—	—	—	24 V	90 s	VNR24A-LP1	350	100			
		Standard actuators with connecting terminals													
		NR...TP 	10 Nm	■	—	—	—			—	24 V	90 s	NR24A-SR-TP	350	100

¹⁾ Control, operating range, feedback, running time, and other functions are adjustable on MP types with Belimo Assistant 2

DN 15/20

Field of use	Closed water circuit (pH >7)
Fluid temperature	6...80°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Linear
Close-off pressure	Δp _s : 350 kPa
Max. differential pressure	Δp _{max} : 110 kPa
Permissible operating pressure	p _s : 1600 kPa
V' _{max}	Freely adjustable 5...100% of V' _{nom}
Control, operating range, feedback, running time, and other functions configurable with Belimo Assistant 2 and ZTH EU	



PN	DN	V' _{nom} [l/h]	V' _{max} low-noise [l/h]	Nominal voltage AC/DC 24 V	Modulating (2...10 V, variable)	Communication MP-Bus	Communication BACnet	Communication Modbus	Valve type with actuator	Δp _s kPa	Δp _{max} kPa
16	15	1260	840	24 V	■	■	■	■	EP015R-R6+BAC	350	110
	20	2340	1620		■	■	■	■	EP020R-R6+BAC	350	110

The EP..R-R6+BAC valve types will be replaced over the course of the year by the new EP..R6+BAC types.

2...12 zones

Materials	Manifold: stainless steel Valve body: brass
Operating pressure	6 bar
Flow setting	0...5 l/min
Connection	G 1" (ISO 228) G 3/4" Euro cone



										➔ 2 zones3 zones4 zones5 zones6 zones7 zones8 zones9 zones10 zones11 zones12 zones															
Suitable actuators	Nominal torque	Open/close	3-point	Modulating (2...10 V)	Modulating (0.5...10 V)	Communication MP-Bus	Communication BACnet	Communication Modbus	Fail-safe	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Actuator type	Manifold type	EM-ECQ-02F	EM-ECQ-03F	EM-ECQ-04F	EM-ECQ-05F	EM-ECQ-06F	EM-ECQ-07F	EM-ECQ-08F	EM-ECQ-09F	EM-ECQ-10F	EM-ECQ-11F	EM-ECQ-12F	
Standard actuators																									
CQ..	1 Nm	■	■							24 V	75 s	CQ24A		■		■		■		■		■		■	
				■								CQ24A-SR		■		■		■		■		■		■	
					■							CQ24A-SZ		■		■		■		■		■		■	
						■						CQ24A-MPL		■		■		■		■		■		■	
							■					CQ24A-BAC		■		■		■		■		■		■	
		■	■					■	■			CQ230A		■		■		■		■		■		■	
Standard actuators with connecting terminals																									
CQ..A-T	1 Nm	■	■							24 V	75 s	CQ24A-T		■		■		■		■		■		■	
				■								CQ24A-SR-T		■		■		■		■		■		■	
					■							CQ24A-SZ-T		■		■		■		■		■		■	
		■	■									CQ230A-T		■		■		■		■		■		■	
Fail-safe actuators NC/NO																									
CQK..	1 Nm	■							■	24 V	75 s	CQK24A		■		■		■		■		■		■	
				■					■			CQK24A-SR		■		■		■		■		■		■	
					■				■			CQK24A-SZ.1 ¹⁾		■		■		■		■		■		■	
						■			■			CQK24A-MPL		■		■		■		■		■		■	
		■							■			CQK230A		■		■		■		■		■		■	
Fail-safe actuators NC/NO with connecting terminals																									
CQK..A-T	1 Nm	■							■	24 V	75 s	CQK24A-T		■		■		■		■		■		■	
				■					■			CQK24A-SR-T		■		■		■		■		■		■	
						■			■			CQK24A-MPL-T		■		■		■		■		■		■	
		■							■			CQK230A-T		■		■		■		■		■		■	

¹⁾ Actuator is delivered in multipack with 36 pieces.



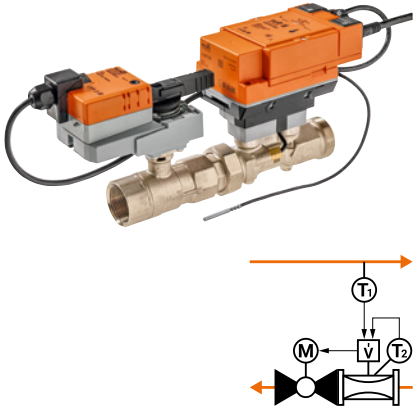
Pressure-independent characterised control valves
Complete transparency and highest efficiency

Belimo Energy Valve™					
	Internal and external thread	2-way	PN 25	DN 15...50	30
				DN 15...50 (MID)	31
	Flange	3-way	PN 16	DN 15...50	32
		2-way		DN 65...150	33
Electronic pressure-independent characterised control valve (EPIV)	Internal and external thread	2-way	PN 25	DN 15...50	34
	Flange		PN 16	DN 65...150	35

Please refer to the data sheets or notes for project planning for further technical data to be observed.

DN 15...50

- Field of use
- Closed water circuit (pH >7)
- Fluid temperature
- −10...120°C
- Pipe connection
- Internal thread Rp (ISO 7-1) and
External thread G (ISO 228-1)
- Leakage rate
- Air-bubble tight, leakage rate A (EN 12266-1)
- Permissible operating pressure
- p_S: 1600 kPa
- V'_{max}
- Freely adjustable 25...100% of V'_{nom}
- Configurable using the integrated web server or Belimo Assistant 2
- Optional connection to the Belimo Cloud
- Sensor-operated flow rate, power or differential pressure control
- Delta-T manager for optimal differential temperatures



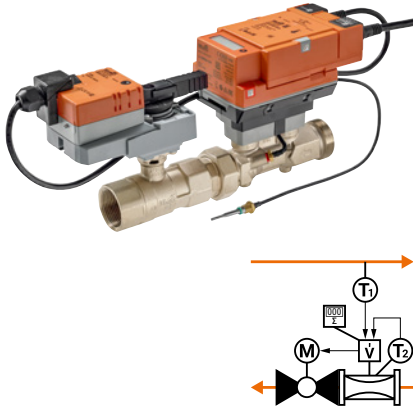


PN	DN	G	Rp	V ^{nom} [l/s]	V ^{nom} [l/min]	V ^{nom} [m³/h]	Nominal voltage AC/DC 24 V	Modulating (2...10 V, variable)	Communication MP-Bus	Communication Modbus	Communication BACnet	Glycol monitoring ¹⁾	Valve type with actuator	Δp _s kPa	Δp _{max} kPa
With standard actuator															
25	15	3/4"	1/2"	0.42	25	1.5	24 V	■	■	■	■	■	EV015R2+BAC	1400	350
	20	1"	3/4"	0.69	41.7	2.5		■	■	■	■	■	EV020R2+BAC	1400	350
	25	1 1/4"	1"	0.97	58.3	3.5		■	■	■	■	■	EV025R2+BAC	1400	350
	32	1 1/2"	1 1/4"	1.67	100	6		■	■	■	■	■	EV032R2+BAC	1400	350
	40	2"	1 1/2"	2.78	166.7	10		■	■	■	■	■	EV040R2+BAC	1400	350
	50	2 1/2"	2"	4.17	250	15		■	■	■	■	■	EV050R2+BAC	1400	350
Fail-safe															
25	15	3/4"	1/2"	0.42	25	1.5	24 V	■	■	■	■	■	EV015R2+KBAC	1400	350
	20	1"	3/4"	0.69	41.7	2.5		■	■	■	■	■	EV020R2+KBAC	1400	350
	25	1 1/4"	1"	0.97	58.3	3.5		■	■	■	■	■	EV025R2+KBAC	1400	350
	32	1 1/2"	1 1/4"	1.67	100	6		■	■	■	■	■	EV032R2+KBAC	1400	350
	40	2"	1 1/2"	2.78	166.7	10		■	■	■	■	■	EV040R2+KBAC	1400	350
	50	2 1/2"	2"	4.17	250	15		■	■	■	■	■	EV050R2+KBAC	1400	350

¹⁾ Optimum heat transfer can be ensured by glycol content monitoring.

DN 15...50 (MID)

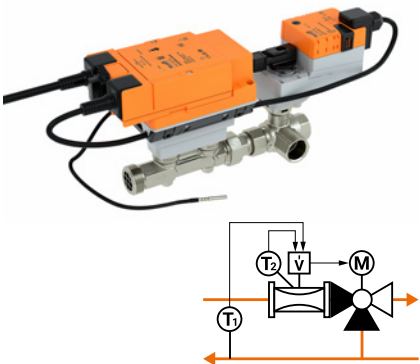
- Field of use
- Closed water circuit (pH >7)
- Fluid temperature
- −10...120°C
- Fluid temperature note
- MID-certified 15...120°C
- Pipe connection
- Internal thread Rp (ISO 7-1) and
External thread G (ISO 228-1)
- Leakage rate
- Air-bubble tight, leakage rate A (EN 12266-1)
- Permissible operating pressure
- p_S: 1600 kPa
- V'_{max}
- Freely adjustable 25...100% of V'_{nom}
- The thermal energy meters meet the requirements of EN 1434 and have type approval according to the European Measuring Instruments Directive 2014/32/EU (MI-004) as a heat meter.
- Configurable using the integrated web server or Belimo Assistant 2
- Optional connection to the Belimo Cloud
- Sensor-operated flow rate, power or differential pressure control
- Delta-T manager for optimal differential temperatures



PN	DN	G	Rp	V' _{nom} [l/s]	V' _{nom} [l/min]	V' _{nom} [m³/h]	Nominal voltage AC/DC 24 V	Modulating (2...10 V, variable)	Communication MP-Bus	Communication Modbus	Communication BACnet	Valve type with actuator	Δp _S kPa	Δp _{max} kPa
With standard actuator														
25	15	3/4"	1/2"	0.42	25	1.5	24 V	■	■	■	■	EV015R2+MID	1400	350
	20	1"	3/4"	0.69	41.7	2.5		■	■	■	■	EV020R2+MID	1400	350
	25	1 1/4"	1"	0.97	58.3	3.5		■	■	■	■	EV025R2+MID	1400	350
	32	1 1/2"	1 1/4"	1.67	100	6		■	■	■	■	EV032R2+MID	1400	350
	40	2"	1 1/2"	2.78	166.7	10		■	■	■	■	EV040R2+MID	1400	350
	50	2 1/2"	2"	4.17	250	15		■	■	■	■	EV050R2+MID	1400	350

DN 15...50

- Field of use
- Closed water circuit (pH >7)
- Fluid temperature
- 10...120°C
- Pipe connection
- Internal thread Rp (ISO 7-1) and
External thread G (ISO 228-1)
- Leakage rate
- Control path A – AB: air-bubble tight, leakage rate A
(EN 12266-1) / bypass B – AB: leakage class I
- Permissible operating pressure
- p_S: 1600 kPa
- V'_{max}
- Freely adjustable 25...100% of V'_{nom}
- Configurable using the integrated web server or Belimo Assistant 2
- Optional connection to the Belimo Cloud
- Sensor-operated flow or power control
- Delta-T manager for optimal differential temperatures



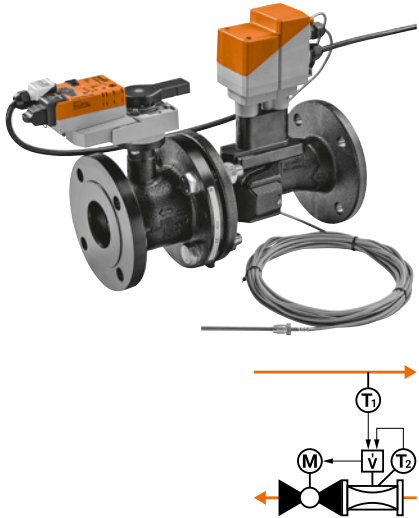
PN	DN	G	Rp	V' _{nom} [l/s]	V' _{nom} [l/min]	V' _{nom} [m³/h]	Nominal voltage AC/DC 24 V	Modulating (2...10 V, variable)	Communication MP-Bus	Communication Modbus	Communication BA Cnet	Glycol monitoring ¹⁾	Valve type with actuator	Δp _S kPa	Δp _{max} kPa
With standard actuator															
25	15	3/4"	1/2"	0.42	25	1.5	24 V	■	■	■	■	■	EV015R3+BAC	1400	350
	20	1"	3/4"	0.69	41.7	2.5		■	■	■	■	■	EV020R3+BAC	1400	350
	25	1 1/4"	1"	0.97	58.3	3.5		■	■	■	■	■	EV025R3+BAC	1400	350
	32	1 1/2"	1 1/4"	1.67	100	6		■	■	■	■	■	EV032R3+BAC	1400	350
	40	2"	1 1/2"	2.78	166.7	10		■	■	■	■	■	EV040R3+BAC	1400	350
	50	2 1/2"	2"	4.17	250	15		■	■	■	■	■	EV050R3+BAC	1400	350

¹⁾ Optimum heat transfer can be ensured by glycol content monitoring.

Note: 3-way Belimo Energy Valve™ with MID on request.

DN 65...150

- Field of use
- Closed water circuit (pH >7)
- Fluid temperature
- 10...120°C
- Pipe connection
- Flange PN 16 (EN 1092-2)
- Leakage rate
- Air-bubble tight, leakage rate A (EN 12266-1)
- Permissible operating pressure
- p_S: 1600 kPa
- V'_{max}
- Freely adjustable 30...100% of V'_{nom}
- Completely parametrisable by means of integrated web server
- Optional connection to the Belimo Cloud
- Sensor-operated flow or power control
- Delta-T manager for optimal differential temperatures



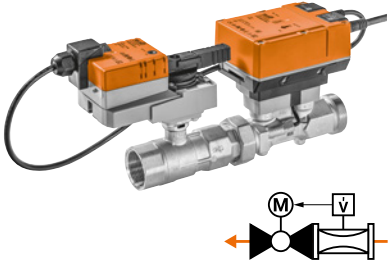


PN	DN	V' _{nom} [l/s]	V' _{nom} [l/min]	V' _{nom} [m³/h]	Nominal voltage AC/DC 24 V	Modulating (2...10 V, variable)	Communication MP-Bus	Communication Modbus	Communication BACnet	Glycol monitoring ¹⁾	Valve type with actuator	Δp _s kPa	Δp _{max} kPa
With standard actuator													
16	65	8	480	28.8	24 V	■	■	■	■	■	EV065F+BAC	690	340
	80	11	660	39.6		■	■	■	■	■	EV080F+BAC	690	340
	100	20	1200	72		■	■	■	■	■	EV100F+BAC	690	340
	125	31	1860	111.6		■	■	■	■	■	EV125F+BAC	690	340
	150	45	2700	162		■	■	■	■	■	EV150F+BAC	690	340
Fail-safe													
16	65	8	480	28.8	24 V	■	■	■	■	■	EV065F+KBAC	690	340
	80	11	660	39.6		■	■	■	■	■	EV080F+KBAC	690	340
	100	20	1200	72		■	■	■	■	■	EV100F+KBAC	690	340
	125	31	1860	111.6		■	■	■	■	■	EV125F+KBAC	690	340
	150	45	2700	162		■	■	■	■	■	EV150F+KBAC	690	340

¹⁾ Optimum heat transfer can be ensured by glycol content monitoring.

DN 15...50

Field of useClosed water circuit (pH >7)
Fluid temperature-10...120°C
Pipe connectionInternal thread Rp (ISO 7-1) and External thread G (ISO 228-1)
Leakage rateAir-bubble tight, leakage rate A (EN 12266-1)
Permissible operating pressurep_S: 1600 kPa
V'_{max}Freely adjustable 25...100% of V'_{nom}
Control, operating range, feedback, and other functions configurable with Belimo Assistant 2



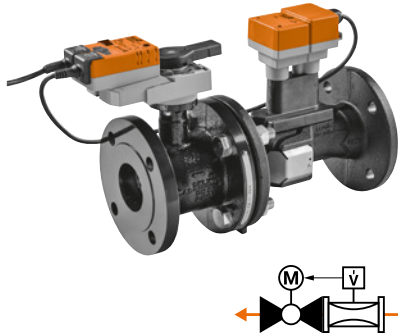


PN	DN	G	Rp	V' _{nom} [l/s]	V' _{nom} [l/min]	V' _{nom} [m³/h]	Nominal voltage AC/DC 24 V	Modulating (2...10 V, variable)	Communication MP-Bus	Communication Modbus	Communication BACnet	Glycol monitoring ¹⁾	Valve type with actuator	Δp _s kPa	Δp _{max} kPa
With standard actuator															
25	15	3/4"	1/2"	0.42	25	1.5	24 V	■	■	■	■	■	EP015R2+BAC	1400	350
	20	1"	3/4"	0.69	41.7	2.5		■	■	■	■	■	EP020R2+BAC	1400	350
	25	1 1/4"	1"	0.97	58.3	3.5		■	■	■	■	■	EP025R2+BAC	1400	350
	32	1 1/2"	1 1/4"	1.67	100	6		■	■	■	■	■	EP032R2+BAC	1400	350
	40	2"	1 1/2"	2.78	166.7	10		■	■	■	■	■	EP040R2+BAC	1400	350
	50	2 1/2"	2"	4.17	250	15		■	■	■	■	■	EP050R2+BAC	1400	350
Fail-safe															
25	15	3/4"	1/2"	0.42	25	1.5	24 V	■	■	■	■	■	EP015R2+KBAC	1400	350
	20	1"	3/4"	0.69	41.7	2.5		■	■	■	■	■	EP020R2+KBAC	1400	350
	25	1 1/4"	1"	0.97	58.3	3.5		■	■	■	■	■	EP025R2+KBAC	1400	350
	32	1 1/2"	1 1/4"	1.67	100	6		■	■	■	■	■	EP032R2+KBAC	1400	350
	40	2"	1 1/2"	2.78	166.7	10		■	■	■	■	■	EP040R2+KBAC	1400	350
	50	2 1/2"	2"	4.17	250	15		■	■	■	■	■	EP050R2+KBAC	1400	350

¹⁾ Optimum heat transfer can be ensured by glycol content monitoring.

DN 65...150

Field of useClosed water circuit (pH >7)
Fluid temperature-10...120°C
Pipe connectionFlange PN 16 (EN 1092-2)
Leakage rateAir-bubble tight, leakage rate A (EN 12266-1)
Permissible operating pressurep_S: 1600 kPa
V'_{max}Freely adjustable 30...100% of V'_{nom}
Control, operating range, feedback, and other functions configurable with Belimo Assistant 2





PN	DN	V' _{nom} [l/s]	V' _{nom} [l/min]	V' _{nom} [m³/h]	Nominal voltage AC/DC 24 V	Modulating (2...10 V, variable)	Communication MP-Bus	Communication Modbus	Communication BACnet	Valve type with actuator	Δp _s kPa	Δp _{max} kPa
With standard actuator												
16	65	8	480	28.8	24 V	■	■			EP065F+MP	690	340
	80	11	660	39.6		■	■			EP080F+MP	690	340
	100	20	1200	72		■	■			EP100F+MP	690	340
	125	31	1860	111.6		■	■			EP125F+MP	690	340
	150	45	2700	162		■	■			EP150F+MP	690	340
Fail-safe												
16	65	8	480	28.8	24 V	■	■			EP065F+KMP	690	340
	80	11	660	39.6		■	■			EP080F+KMP	690	340
	100	20	1200	72		■	■			EP100F+KMP	690	340
	125	31	1860	111.6		■	■			EP125F+KMP	690	340
	150	45	2700	162		■	■			EP150F+KMP	690	340
With Modbus actuator												
16	65	8	480	28.8	24 V	■	■	■	■	EP065F+MOD	690	340
	80	11	660	39.6		■	■	■	■	EP080F+MOD	690	340
	100	20	1200	72		■	■	■	■	EP100F+MOD	690	340
	125	31	1860	111.6		■	■	■	■	EP125F+MOD	690	340
	150	45	2700	162		■	■	■	■	EP150F+MOD	690	340

Characterised control valves (CCV)

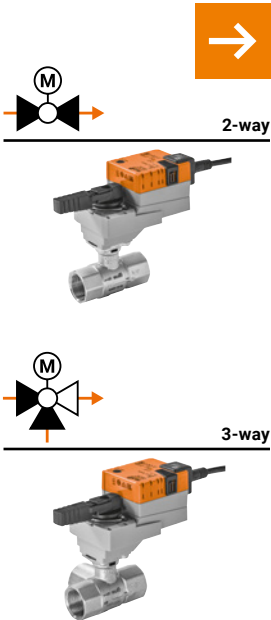
Reliable control
of heating and cooling circuits

Internal thread	2-way – 3-way	PN 25	DN 32...50	38
		PN 40	DN 15...25	
External thread	2-way – 3-way	PN 25	DN 32...50	40
		PN 40	DN 15...25	
Flange	2-way – 3-way	PN 6	DN 15...50	42
	2-way	PN 16	DN 65...150	44
External thread	2-way / 130°	PN 40	DN 10...20	46

Please refer to the data sheets or notes for project planning for further technical data to be observed.

DN 15...50

Field of use	2-way: closed and open water circuit (pH >7) 3-way: closed water circuit (pH >7)
Fluid temperature	–10...120°C ¹⁾
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	2-way: air-bubble tight, leakage rate A (EN 12266-1) 3-way: control path A – AB: air-bubble tight, leakage rate A (EN 12266-1) / bypass B – AB: leakage class I
Flow characteristic	2-way: equal percentage 3-way: control path A – AB: equal percentage / bypass B – AB: linear (flow 70% of the K _{vs} value)
Permissible operating pressure	p _s : 1600 kPa



PN 40						PN 25								
DN 15		DN 20		DN 25		DN 32		DN 40				DN 50		
K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	
	0.25													R2015-P25-S1
	0.4													R2015-P4-S1
	0.63													R2015-P63-S1
	1													R2015-1-S1
1.6	R2015-1P6-S1	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	
2.5	R2015-2P5-S1													
4	R2015-4-S1													
6.3	R2015-6P3-S1													
8.6	R2020-8P6-S2													
16	R2025-16-S2	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	
25	R2020-25-S4													
40	R2050-40-S4													
58	R3050-58-S4													
K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	
	0.25													R3015-P25-S1
	0.4													R3015-P4-S1
	0.63													R3015-P63-S1
	1													R3015-1-S1
1.6	R3015-1P6-S1	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	
2.5	R3015-2P5-S1													
4	R3015-4-S1													
6.3	R3020-6P3-S2													
10	R3025-10-S2													
16	R3032-16-S3	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	
25	R3040-25-S4													
40	R3050-40-S4													
58	R3050-58-S4													
Δp _s kPa	Δp _{max} ²⁾ kPa	Δp _s kPa	Δp _{max} ²⁾ kPa	Δp _s kPa	Δp _{max} ²⁾ kPa	Δp _s kPa	Δp _{max} ²⁾ kPa	Δp _s kPa	Δp _{max} ²⁾ kPa	Δp _s kPa	Δp _{max} ²⁾ kPa	Δp _s kPa	Δp _{max} ²⁾ kPa	

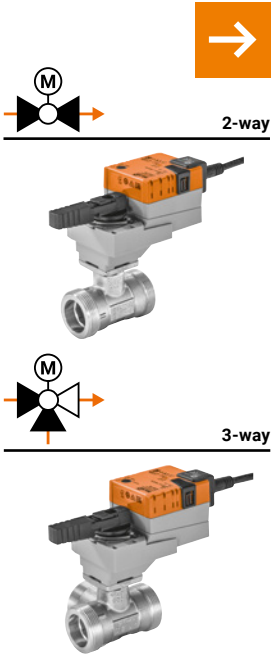
Suitable actuators	Nominal torque	Open/close	3-point	Modulating (2...10 V)	Fail-safe	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Running time fail-safe	Actuator type

	Compact actuators																							
	2 Nm	■	■			24 V	100 s		TR24 ³⁾															
			■			230 V	105 s		TR230-3 ³⁾															
				■		24 V	90 s		TR24-SR ³⁾															
				■			35 s		TRY24-SR ³⁾															
								Without auxiliary switch				With auxiliary switch												
Standard actuators																								
	5 Nm	■	■			24 V			LR24A	...-S		1400	350	1400	350	1400	350							
		■	■			230 V	90 s		LR230A	...-S		1400	350	1400	350	1400	350							
				■					LR24A-SR			1400	350	1400	350	1400	350							
	10 Nm	■	■			24 V			NR24A	...-S		1400	350	1400	350	1400	350	1400	350					
		■	■			230 V	90 s		NR230A	...-S		1400	350	1400	350	1400	350	1400	350	1400	350			
			■					NR24A-SR			1400	350	1400	350	1400	350	1400	350	1400	350				
20 Nm	■	■			24 V			SR24A	...-S		1400	350	1400	350	1400	350	1400	350	1400	350	1400	350		
	■	■			230 V	90 s		SR230A	...-S		1400	350	1400	350	1400	350	1400	350	1400	350	1400	350	1400	350
			■					SR24A-SR			1400	350	1400	350	1400	350	1400	350	1400	350	1400	350	1400	350
Fast running actuators																								
	2 Nm			■		24 V	15 s		TRC24A-SR			1400	350											
	5 Nm			■		24 V	35 s		LRC24A-SR			1400	350	1400	350	1400	350							
	10 Nm			■		24 V	35 s		NRC24A-SR			1400	350	1400	350	1400	350	1400	350					
	20 Nm			■		24 V	35 s		SRC24A-SR			1400	350	1400	350	1400	350	1400	350	1400	350	1400	350	1400
									Actuator type NC				Actuator type NO											
									Without auxiliary switch		With 2 auxiliary switches		Without auxiliary switch		With 2 auxiliary switches									
Fail-safe actuators NC/NO																								
	2.5 Nm			■	■	24 V	90 s	<25 s	TRF24-SR		...-O		1400	350										
	4 Nm			■	■	24 V	150 s	<20 s	LRF24-SR			1400	350	1400	350	1400	350							
	10 Nm			■	■	24 V	90 s	<20 s	NRF24A-SR	...-S2	...-O	...-S2-O	1400	350	1400	350	1400	350	1400	350				
	20 Nm			■	■	24 V	90 s	<20 s	SRF24A-SR	...-S2	...-O	...-S2-O	1400	350	1400	350	1400	350	1400	350	1400	350	1400	350

¹⁾ Compact actuators TR../TRY.. only up to 100°C.
²⁾ Low-noise operation Δp_{max} = 200 kPa.
³⁾ If fluid temperature ≥100°C, then pipeline and valve must be insulated.

DN 15...50

Field of use	Closed and open water circuit (pH >7)
Fluid temperature	–10...100°C
Pipe connection	External thread G (ISO 228-1)
Leakage rate	2-way: air-bubble tight, leakage rate A (EN 12266-1) 3-way: control path A – AB: air-bubble tight, leakage rate A (EN 12266-1) / bypass B – AB: leakage class I
Flow characteristic	2-way: equal percentage 3-way: control path A – AB: equal percentage / bypass B – AB: linear (flow 70% of the K _{VS} value)
Permissible operating pressure	p _S : 1600 kPa



PN 40						PN 25					
DN 15		DN 20		DN 25		DN 32		DN 40		DN 50	
K_{vs} [m³/h]	Valve type										
0.63	R409										
1	R410										
1.6	R411	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type			K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type
2.5	R412	4	R417	6.3	R422	K_{vs} [m³/h]	Valve type	16	R438	25	R448
4	R413	6.3	R418	10	R423			25	R439	40	R449
6.3	R414	8.6	R419	16	R424	16	R431				

DN 65...150

Field of use	Closed water circuit (pH >7)
Fluid temperature	-10...120°C
Pipe connection	Flange PN 16 (EN 1092-2)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Equal percentage
Permissible operating pressure	p _S : 1600 kPa

										PN 16		PN 16									
										DN 65		DN 80		DN 100		DN 125		DN 150			
										K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type		
										63	R6065W63-S8	100	R6080W100-S8	160	R6100W160-S8	250	R6125W250-S8	320	R6150W320-S8		
										Δp_s kPa	$\Delta p_{max}^{1)}$ kPa	Δp_s kPa	$\Delta p_{max}^{1)}$ kPa	Δp_s kPa	$\Delta p_{max}^{1)}$ kPa	Δp_s kPa	$\Delta p_{max}^{1)}$ kPa	Δp_s kPa	$\Delta p_{max}^{1)}$ kPa		
Suitable actuators	Nominal torque	Open/close	3-point	Modulating (2...10 V)	Fail-safe	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Running time fail-safe	SPDT auxiliary switch	Actuator type											
Standard actuators																					
	20 Nm	■	■			24 V	90 s			SR24A-5	690	400	690	400							
		■	■			230 V				SR230A-5	690	400	690	400							
				■		24 V				SR24A-SR-5	690	400	690	400							
				■		230 V				SR230A-SR-5	690	400	690	400							
		■	■			24 V	90 s			SR24P-5	690	400	690	400							
		■	■			230 V				SR230P-5	690	400	690	400							
				■		24 V				SR24P-SR-5	690	400	690	400							
				■		230 V				SR230P-SR-5	690	400	690	400							
	40 Nm	■	■			24 V	150 s			GR24A-5 ²⁾	690	400	690	400	690	400	690	400	690	400	
		■	■			230 V				GR230A-5 ²⁾	690	400	690	400	690	400	690	400	690	400	
				■		24 V				GR24A-SR-5 ²⁾	690	400	690	400	690	400	690	400	690	400	
Fast running actuators																					
	20 Nm			■		24 V	35 s			SRC24A-SR-5	690	400	690	400	690	400	690	400	690	400	
Fail-safe actuators NC/NO										Actuator type NC		Actuator type NO									
	20 Nm	■			■	24 V	<75 s	<20 s	2	SRF24A-5	--O	690	400	690	400						
		■			■	230 V				SRF24A-S2-5	--O	690	400	690	400						
		■			■	230 V				SRFA-5	--O	690	400	690	400						
		■			■	230 V				SRFA-S2-5	--O										
	40 Nm			■	■	24 V	90 s	<20 s	2	SRF24A-SR-5	--O	690	400	690	400						
				■	■	230 V				SRF24A-SR-S2-5	--O										
		■			■	230 V				GRK24A-5		690	400	690	400	690	400	690	400	690	400
				■	■	230 V				GRK24A-SR-5		690	400	690	400	690	400	690	400	690	400

¹⁾ Low-noise operation $\Delta p_{\max} = 200$ kPa.

²⁾ The actuator types GR.-5 will be replaced by a new GR generation at the end of the year.

DN 10...20

Field of use	Closed and open water circuit (pH >7)
Fluid temperature	2...130°C
Pipe connection	External thread G (ISO 228-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Flow characteristic	Equal percentage
Permissible operating pressure	p _S : 2700 kPa

Suitable actuators	Nominal torque	Open/close	3-point	Modulating (2...10 V)	Fail-safe	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Nominal torque running time	Actuator type	PN 40			PN 40						
										DN 10			DN 15			DN 20			
										2-way	K_{vs} [m³/h]	Valve type							
											0.3	R404DK							
											0.4	R405DK							
											0.63	R406DK		K_{vs} [m³/h]	Valve type		K_{vs} [m³/h]	Valve type	
											1	R407DK		2.5	R412D		6.3	R417D	
											1.6	R408DK		4	R413D		10	R418D	
											2.5	R409DK		6.3	R414D		16	R419D	
											Δp_s kPa	Δp_{v100} kPa	Δp_{v0} kPa	Δp_s kPa	Δp_{v100} kPa	Δp_{v0} kPa	Δp_s kPa	Δp_{v100} kPa	Δp_{v0} kPa
Standard actuators																			
LR..		5 Nm	■	■		24 V	90 s		LR24A	1400	400	800	1400	400	800	1400	400	800	
			■	■		230 V			LR230A	1400	400	800	1400	400	800	1400	400	800	
					■	24 V			LR24A-SR	1400	400	800	1400	400	800	1400	400	800	
Fast running actuators																			
LRC..		5 Nm			■		35 s		LRC24A-SR	1400	400	800	1400	400	800	1400	400	800	
Actuators with fail-safeNC																			
LRF..		4 Nm			■	■	150 s	<20 s	LRF24-SR ¹⁾	1400	400	800	1400	400	800	1400	400	800	

¹⁾ If fluid temperature ≥100°C, then pipeline and valve must be insulated.

Globe Valves

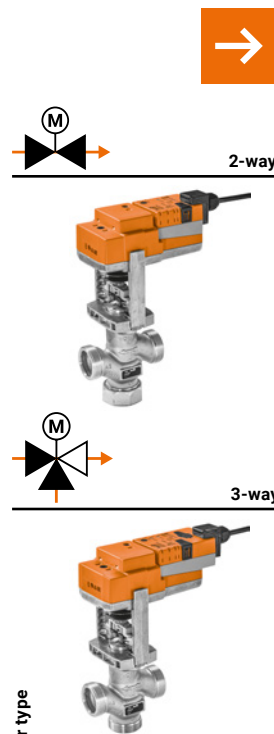
Energy-optimised control of steam and water circuits

External thread	2-way – 3-way	PN 16	DN 15...50	50
Flange	2-way – 3-way	PN 6	DN 15...100	52
	2-way – 3-way	PN 16 / ≤120°C	DN 15...150	54
	2-way – 3-way	PN 16 / ≤150°C	DN 15...150	56
	2-way	PN 16 partly pressure-balanced	DN 40...150	58
	2-way – 3-way	PN 16	DN 200/250	60
	2-way	PN 25	DN 15...50	62
	3-way	PN 25	DN 15...100	64
	2-way	PN 25 partly pressure-balanced	DN 65...100	66
Internal thread	2-way – 3-way	PN 25 stainless steel for special applications	DN 15...50	68

Please refer to the data sheets or notes for project planning for further technical data to be observed.

DN 15...50

Field of use	Closed and open water circuit (pH >7)
Fluid temperature	-10...120°C
Pipe connection	External thread G (ISO 228-1)
Leakage rate	2-way: max. 0.05% of K_{VS} value 3-way: control path A – AB: max. 0.05% of K_{VS} value / bypass B – AB: max. 1% of K_{VS} value
Flow characteristic	2-way: equal percentage 3-way: control path A – AB: equal percentage / bypass B – AB: linear
Permissible operating pressure	p _s : 1600 kPa



PN 16		PN 16									
DN 15		DN 20		DN 25		DN 32		DN 40		DN 50	
K_{VS} [m³/h]	Valve type										
0.63	H411B										
1	H412B										
1.6	H413B										
2.5	H414B	K_{VS} [m³/h]	Valve type	K_{VS} [m³/h]	Valve type	K_{VS} [m³/h]	Valve type	K_{VS} [m³/h]	Valve type	K_{VS} [m³/h]	Valve type
4	H415B	6.3	H420B	10	H425B	16	H432B	25	H440B	40	H450B

[illegible]

Suitable actuators										Suitable actuators										Suitable actuators									
Actuating force	Actuating time per nominal stroke	Actuating time for fail-safe	Open/close	3-point	Modulating (2...10 V)	Communication MP-Bus ¹⁾	Fail-safe	Nominal voltage AC/DC 24 V AC 230 V	Actuator type	1		1.6		2.5		4		6.3		10		16		25		40			
										K_{VS} [m³/h]	Valve type	K_{VS} [m³/h]	Valve type	K_{VS} [m³/h]	Valve type	K_{VS} [m³/h]	Valve type	K_{VS} [m³/h]	Valve type	K_{VS} [m³/h]	Valve type	K_{VS} [m³/h]	Valve type	K_{VS} [m³/h]	Valve type				
										Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa				
LV.. NV.. SV..		Standard actuators																											
		500 N	150 s	—	■	■	—	—	24 V	LV24A-TPC	1300	400	900	400	500	400	350	350	150	150	70	70							
				—	■	■	—	—	230 V	LV230A-TPC	1300	400	900	400	500	400	350	350	150	150	70	70							
				—	—	—	■	—	24 V	LV24A-SR-TPC	1300	400	900	400	500	400	350	350	150	150	70	70							
				—	—	—	■	■	24 V	LV24A-MP-TPC	1300	400	900	400	500	400	350	350	150	150	70	70							
		1000 N	150 s	—	■	■	—	—	24 V	NV24A-TPC	1600	400	1600	400	1300	400	1000	400	500	400	300	300							
				—	■	■	—	—	230 V	NV230A-TPC	1600	400	1600	400	1300	400	1000	400	500	400	300	300							
				—	—	—	■	—	24 V	NV24A-SR-TPC	1600	400	1600	400	1300	400	1000	400	500	400	300	300							
				—	—	—	■	■	24 V	NV24A-MP-TPC	1600	400	1600	400	1300	400	1000	400	500	400	300	300							
		1500 N	150 s	—	■	■	—	—	24 V	SV24A-TPC	1600	400	1600	400	1600	400	1600	400	900	400	550	400							
				—	■	■	—	—	230 V	SV230A-TPC	1600	400	1600	400	1600	400	1600	400	900	400	550	400							
				—	—	—	—	—	24 V	SV24A-SR-TPC	1600	400	1600	400	1600	400	1600	400	900	400	550	400							
—	—			—	■	■	24 V	SV24A-MP-TPC	1600	400	1600	400	1600	400	1600	400	900	400	550	400									
LVC.. NVC.. SVC..		Fast running actuators																											
		500 N	35 s	—	—	—	■	—	24 V	LVC24A-SR-TPC	1300	400	900	400	500	400	350	350	150	150	70	70							
				—	—	—	■	■	24 V	LVC24A-MP-TPC	1300	400	900	400	500	400	350	350	150	150	70	70							
		1000 N	35 s	—	—	—	■	—	24 V	NVC24A-SR-TPC	1600	400	1600	400	1300	400	1000	400	500	400	300	300							
				—	—	—	■	■	24 V	NVC24A-MP-TPC	1600	400	1600	400	1300	400	1000	400	500	400	300	300							
		1500 N	35 s	—	—	—	■	—	24 V	SVC24A-SR-TPC	1600	400	1600	400	1600	400	1600	400	900	400	550	400							
				—	—	—	■	■	24 V	SVC24A-MP-TPC	1600	400	1600	400	1600	400	1600	400	900	400	550	400							
		NVK.. NVKC..		Fail-safe actuators NC/NO ²⁾																									
1000 N	150 s			35 s	—	■	—	■	24 V	NVK24A-3-TPC	1600	400	1600	400	1300	400	1000	400	500	400	300	300							
				—	—	■	—	■	230 V	NVK230A-3	1600	400	1600	400	1300	400	1000	400	500	400	300	300							
				—	—	■	—	■	24 V	NVK24A-SR-TPC	1600	400	1600	400	1300	400	1000	400	500	400	300	300							
				—	—	■	■	■	24 V	NVK24A-MP-TPC	1600	400	1600	400	1300	400	1000	400	500	400	300	300							
35 s	35 s			—	—	■	—	■	24 V	NVKC24A-SR-TPC	1600	400	1600	400	1300	400	1000	400	500	400	300	300							
		—	—	■	■	■	24 V	NVKC24A-MP-TPC	1600	400	1600	400	1300	400	1000	400	500	400	300	300									

¹⁾ Running times, control signal, stroke limitation, and other functions for MP types configurable with Belimo Assistant 2 or service tool ZTH EU (delivery condition: modulating, operating range 2...10 V).

²⁾ The fail-safe position NC/NO of all fail-safe actuators can be adjusted on the actuator. Delivery condition: actuator stem retracted.

DN 15...100

Field of use		Closed water circuit (pH >7)				PN 6										PN 6																																							
Fluid temperature		-10...120°C				DN 15		DN 20		DN 25		DN 32		DN 40		DN 50		DN 65		DN 80		DN 100																																	
Pipe connection		Flange PN 6 (ISO 7005-2)				2-way		K_{VS} [m³/h]		Valve type																																													
Leakage rate		2-way: max. 0.05% of K_{VS} value 3-way: control path A – AB: max. 0.05% of K_{VS} value / bypass B – AB: max. 1% of K_{VS} value				0.63		H611R																																															
Flow characteristic		2-way: equal percentage 3-way: control path A – AB: equal percentage / bypass B – AB: linear				1		H612R																																															
						1.6		H613R																																															
Permissible operating pressure		p _S : 600 kPa				2.5		H614R		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type																			
						4		H615R		6.3		H620R		10		H625R		16		H632R		25		H640R		40		H650R		58		H664R		90		H679R		145		H6100R															
Suitable actuators		Actuating force		Actuating time per nominal stroke		Actuating time Fail-safe		Open/close		3-point		Modulating (2...10 V)		Communication MP-Bus ¹⁾		Fail-safe		Nominal voltage AC/DC 24 V AC 230 V		Actuator type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type											
																						0.63		H711R																															
																						1		H712R																															
																						1.6		H713R																															
																						K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type		K_{VS} [m³/h]		Valve type															
																						2.5		H714R		6.3		H720R		10		H725R		16		H732R		25		H740R		40		H750R		58		H764R		90		H779R		145	
																						Δp_S kPa		Δp_{max} kPa		Δp_S kPa		Δp_{max} kPa		Δp_S kPa		Δp_{max} kPa		Δp_S kPa		Δp_{max} kPa		Δp_S kPa		Δp_{max} kPa															
Standard actuators																																																							
LV.. NV.. SV..		500 N		150 s																24 V		LV24A-TPC		600		400		600		400		500		400		350		350		150		150		70		70									
																						LV230A-TPC		600		400		600		400		500		400		350		350		150		150		70		70									
																						LV24A-SR-TPC		600		400		600		400		500		400		350		350		150		150		70		70									
																						LV24A-MP-TPC		600		400		600		400		500		400		350		350		150		150		70		70									
1000 N		150 s																		24 V		NV24A-TPC		600		400		600		400		600		400		600		400		500		400		300		300		140		140		80		80	
																						NV230A-TPC		600		400		600		400		600		400		500		400		300		300		140		140		80		80					
																						NV24A-SR-TPC		600		400		600		400		600		400		500		400		300		300		140		140		80		80					
																						NV24A-MP-TPC		600		400		600		400		600		400		500		400		300		300		140		140		80		80					
1500 N		150 s																		24 V		SV24A-TPC		600		400		600		400		600		400		600		400		550		400		280		280		160		160					
																						SV230A-TPC		600		400		600		400		600		400		550		400		280		280		160		160									
																						SV24A-SR-TPC		600		400		600		400		600		400		550		400		280		280		160		160									
																						SV24A-MP-TPC		600		400		600		400		600		400		550		400		280		280		160		160									
2500 N		150 s																		24 V		EV24A-TPC																						200		200									
																						EV230A-TPC																														200		200	
																						EV24A-SR-TPC																														200		200	
																						EV24A-MP-TPC																														200		200	
4500 N		120 s																		24 V		RV24A-SR																		450		400													
Fast running actuators																																																							
LVC.. NVC.. SVC..		500 N		35 s																24 V		LVC24A-SR-TPC		600		400		600		400		500		400		350		350		150		150		70		70									
																						LVC24A-MP-TPC		600		400		600		400		500		400		350		350		150		150		70		70									
																						NVC24A-SR-TPC		600		400		600		400		600		400		500		400		300		300		140		140		80		80					
																						NVC24A-MP-TPC		600		400		600		400		600		400		500		400		300		300		140		140		80		80					
1000 N		35 s																		24 V		NVC24A-SR-TPC		600		400		600		400		600		400		500		400		300		300		140		140		80		80					
																						SVC24A-SR-TPC		600		400		600		400		600		400		550		400		280		280		160		160									
																						SVC24A-MP-TPC		600		400		600		400		600		400		550		400		280		280		160		160									
																						EVC24A-SR																																200	
Fail-safe actuators NC/NO ²⁾																																																							
NVK.. NVKC..		1000 N		150 s		35 s														24 V		NVK24A-3-TPC		600		400		600		400		600		400		600		400		500		400		300		300		140		140		80		80	
																						NVK230A-3		600		400		600		400		600		400		500		400		300		300		140		140		80		80					
																						NVK24A-SR-TPC		600		400		600		400		600		400		500		400		300		300		140		140		80		80					
																						NVK24A-MP-TPC		600		400		600		400		600		400		500		400		300		300		140		140		80		80					
2000 N		150 s		35 s																24 V		NVKC24A-SR-TPC		600		400		600		400		600		400		500		400		300		300		140		140		80		80					
																						NVKC24A-MP-TPC		600		400		600		400		600		400		500		400		300		300		140		140		80		80					
																						AVK24A-3-TPC																														150		150	
																						AVK230A-3																														150		150	
AVK..																				24 V		AVK24A-SR-TPC																						150		150									
																						AVK24A-MP-TPC																												150		150			

DN 15...150

[illegible]

DN 15...150

[illegible]

DN 40...150

Field of use	Closed water circuit and steam circuit in the subcritical range (pH >7)
Fluid temperature	5...150°C (120°C to p _s 1600 kPa, 150°C to p _s 1400 kPa)
Pipe connection	Flange PN 16 (ISO 7005-2)
Leakage rate	Max. 0.05% of K _{vs} value
Flow characteristic	Equal percentage

Suitable actuators		PN 16										PN 16													
		DN 40		DN 50		DN 65		DN 80		DN 100		DN 125		DN 150											
		K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type										
		25	H640SP	40	H650SP	58	H664SP	90	H679SP	145	H6100SP	220	H6125SP	320	H6150SP										
		Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa										
Standard actuators																									
NV.. SV..		1000 N	150 s		■	■				24 V	NV24A-TPC	1600	1000	1600	1000	1600	1000								
					■	■				230 V	NV230A-TPC	1600	1000	1600	1000	1600	1000								
							■			24 V	NV24A-SR-TPC	1600	1000	1600	1000	1600	1000								
							■	■		24 V	NV24A-MP-TPC	1600	1000	1600	1000	1600	1000								
EV.. RV..		1500 N	150 s		■	■				24 V	SV24A-TPC	1600	1000	1600	1000	1600	1000								
					■	■				230 V	SV230A-TPC	1600	1000	1600	1000	1600	1000								
							■			24 V	SV24A-SR-TPC	1600	1000	1600	1000	1600	1000								
							■	■		24 V	SV24A-MP-TPC	1600	1000	1600	1000	1600	1000								
NVC.. SVC..		2500 N	150 s		■	■				24 V	EV24A-TPC							600	600	600	600				
					■	■				230 V	EV230A-TPC							600	600	600	600				
							■			24 V	EV24A-SR-TPC							600	600	600	600				
							■	■		24 V	EV24A-MP-TPC							600	600	600	600				
EVC..		4500 N	120 s				■	■		24 V	RV24A-SR							600	600	600	600				
				Fast running actuators																					
				1000 N	35 s				■			24 V	NVC24A-SR-TPC	1600	1000	1600	1000	1600	1000						
									■	■		24 V	NVC24A-MP-TPC	1600	1000	1600	1000	1600	1000						
1500 N	35 s						■			24 V	SVC24A-SR-TPC	1600	1000	1600	1000	1600	1000								
							■	■		24 V	SVC24A-MP-TPC	1600	1000	1600	1000	1600	1000								
		2500 N	35 s				■			24 V	EVC24A-SR							600	600	600	600				
				Fail-safe actuators NC/NO ²⁾																					
1000 N	150 s			35 s		■			■		24 V	NVK24A-3-TPC	1600	1000	1600	1000	1600	1000							
						■			■		230 V	NVK230A-3	1600	1000	1600	1000	1600	1000							
					■		■		24 V	NVK24A-SR-TPC	1600	1000	1600	1000	1600	1000									
					■	■	■		24 V	NVK24A-MP-TPC	1600	1000	1600	1000	1600	1000									
NVK.. NVKC..		1500 N	35 s	35 s		■			■		24 V	NVKC24A-SR-TPC	1600	1000	1600	1000	1600	1000							
							■	■	■		24 V	NVKC24A-MP-TPC	1600	1000	1600	1000	1600	1000							
					2000 N	150 s	35 s		■			■		24 V	AVK24A-3-TPC							600	600		
									■			■		230 V	AVK230A-3							600	600		
		■		■					24 V	AVK24A-SR-TPC							600	600							
		■	■	■					24 V	AVK24A-MP-TPC							600	600							
AVK..								■																	
								■																	

¹⁾ Running times, control signal, stroke limitation, and other functions for MP types configurable with Belimo Assistant 2 or service tool ZTH EU (delivery condition: modulating, operating range 2...10 V).

²⁾ The fail-safe position NC/NO of all fail-safe actuators can be adjusted on the actuator. Delivery condition: actuator stem retracted.

DN 65...100

Field of use	Closed water circuit and steam circuit in the subcritical range (pH > 7) Flange PN 65 (ISO 7005-2)
Fluid temperature	5...150°C (120°C to p _s 2500 kPa, 150°C to p _s 2430 kPa)
Pipe connection	Flange PN 25 (ISO 7005-2)
Leakage rate	Max. 0.05% of K _{VS} value
Flow characteristic	Equal percentage

										PN 25		PN 25				
										DN 65		DN 80		DN 100		
										2-way		2-way		2-way		
										K _{vs} [m³/h]	Valve type	K _{vs} [m³/h]	Valve type	K _{vs} [m³/h]	Valve type	
										58	H6065X58-SP2	90	H6080X90-SP2	125	H6100X125-SP2	
										Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	
Suitable actuators																
Standard actuators																
NV.. SV..		1000 N	150 s	☒	☒	☐	☐	24 V	NV24A-TPC	2100	1000	1600	1000	1000	1000	
				☒	☒	☐	☐	230 V	NV230A-TPC	2100	1000	1600	1000	1000	1000	
				☐	☐	☒	☐	24 V	NV24A-SR-TPC	2100	1000	1600	1000	1000	1000	
				☐	☐	☒	☒	24 V	NV24A-MP-TPC	2100	1000	1600	1000	1000	1000	
	1500 N	150 s	☒	☒	☐	☐	24 V	SV24A-TPC	2500	1000	2400	1000	1700	1000		
			☒	☒	☐	☐	230 V	SV230A-TPC	2500	1000	2400	1000	1700	1000		
			☐	☐	☒	☐	24 V	SV24A-SR-TPC	2500	1000	2400	1000	1700	1000		
			☐	☐	☒	☒	24 V	SV24A-MP-TPC	2500	1000	2400	1000	1700	1000		
Fast running actuators																
NVC.. SVC..		1000 N	35 s	☐	☐	☒	☐	24 V	NVC24A-SR-TPC	2100	1000	1600	1000	1000	1000	
				☐	☐	☒	☒	24 V	NVC24A-MP-TPC	2100	1000	1600	1000	1000	1000	
		1500 N	35 s	☐	☐	☒	☐	24 V	SVC24A-SR-TPC	2500	1000	2400	1000	1700	1000	
				☐	☐	☒	☒	24 V	SVC24A-MP-TPC	2500	1000	2400	1000	1700	1000	
Fail-safe actuators NC/NO ²⁾																
NVK.. NVKC..		1000 N	150 s	35 s	☐	☒	☐	☐	24 V	NVK24A-3-TPC	2100	1000	1600	1000	1000	1000
					☐	☒	☐	☒	230 V	NVK230A-3	2100	1000	1600	1000	1000	1000
					☐	☐	☒	☐	24 V	NVK24A-SR-TPC	2100	1000	1600	1000	1000	1000
					☐	☐	☒	☒	24 V	NVK24A-MP-TPC	2100	1000	1600	1000	1000	1000
					☐	☐	☒	☐	24 V	NVKC24A-SR-TPC	2100	1000	1600	1000	1000	1000
					☐	☐	☒	☒	24 V	NVKC24A-MP-TPC	2100	1000	1600	1000	1000	1000

8

Control butterfly valves

Fit for reliable control applications

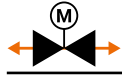
Wafer types	2-way	PN 6, 10, 16	DN 25...300	72
		PN 10, 16	DN 350	74
		PN 16	DN 400...700	74
Lug types	2-way	PN 10, 16	DN 25...150	72
		PN 16	DN 200...300	72
		PN 16	DN 350...700	74
	3-way	PN 16	DN 100...300	76

Please refer to the data sheets or notes for project planning for further technical data to be observed.

DN 25...300

Field of use	Closed and open water circuit (pH >7)
Fluid temperature	DN 25...80: -10...120°C DN 100...150: -20...120°C DN 200...300: -10...120°C
Pipe connection	Flange (ISO 7005-2 and EN 1092-2) D6..W additionally: ISO 7005-1 and EN 1092-1
Leakage rate	Tight, leakage rate A (EN 12266-1)
Flow characteristic	DN 25...125: 0...60% opening angle: equal percentage DN 150...300: characteristic curve configurable with Belimo Assistant 2: equal percentage or linear
Permissible operating pressure	p _g : 1600 kPa

		PN 6, 10, 16												PN 6, 10, 16											
		DN 25		DN 32		DN 40		DN 50		DN 65		DN 80		DN 100		DN 125		DN 150		DN 200		DN 250		DN 300	
	Wafer types	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve
		24	D625N	25	D632N	27	D640N	30	D650N	50	D665N	75	D680N	220	D6100W	310	D6125W	550	D6150W	820	D6200W	1300	D6250W	1740	D6300W

		PN 10, 16										PN 10, 16						PN 16							
		DN 25		DN 32		DN 40		DN 50		DN 65		DN 80		DN 100		DN 125		DN 150		DN 200		DN 250		DN 300	
		$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve	$K_{vs}^{1)}$ [m³/h]	Valve
		24	D625NL	25	D632NL	27	D640NL	30	D650NL	50	D665NL	75	D680NL	220	D6100WL	310	D6125WL	550	D6150WL	820	D6200WL	1300	D6250WL	1740	D6300WL

Suitable actuators	Nominal torque	Open/close	3-point	Modulating	Terminal connection	Fail-safe	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	SPDT auxiliary switch	Degree of protection	Actuator type		Linkage type	ZJR03 ⁵⁾		ZJR03 ⁵⁾		ZJR03 / ZPR03 ⁵⁾		ZJR01 / ZPR03		ZJR01 / ZPR01		ZJR01 / ZPR01		ZPR01		ZPR01		ZPR01	
														Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa
SR.. 	Modulating actuators																														
	20 Nm	—	—	■	—	—	24 V	90 s	—	IP54	SR24A-SR-5		1200	300	1200	300	1200	300	1200	300											
GR.. 	40 Nm			■			24 V	150 s		IP54	GR24A-SR-5		1200	300	1200	300	1200	300	1200	300											
JR.. 	Communicative actuators																														
	90 Nm	■ ²⁾	■ ²⁾	■ ²⁾	■ ²⁾		AC 24...240 V DC 24...125 V	35 s ³⁾	2	IP66/ IP67	JRCA-BAC-S2-T						1200	300	1200	300	1200	300	1400	300	1400	300	1400	300			
		■ ²⁾	■ ²⁾	■ ²⁾	■ ²⁾						PRCA-BAC-S2-T																		1400	300	
	160 Nm	■ ²⁾	■ ²⁾	■ ²⁾	■ ²⁾		AC 24...240 V DC 24...125 V	35 s ⁴⁾	2		PRCA-BAC-S2-T-200																				
			■ ²⁾	■ ²⁾	■ ²⁾	■ ²⁾					PRCA-BAC-S2-T-250																				
PR.. 																															
	Communicative fail-safe actuators NC/NO																														
	160 Nm	■ ²⁾	■ ²⁾	■ ²⁾	■ ²⁾	■ ²⁾	AC 24...240 V DC 24...125 V	35 s ⁴⁾	2	IP66/ IP67	PRKCA-BAC-S2-T							1200	300	1200	300	1200	300	1200	300				1400	300	
			■ ²⁾	■ ²⁾	■ ²⁾	■ ²⁾	■ ²⁾				PRKCA-BAC-S2-T-200																				
PRK.. 		■ ²⁾	■ ²⁾	■ ²⁾	■ ²⁾	■ ²⁾					PRKCA-BAC-S2-T-250																				
																												1400	300		

¹⁾ For control applications with an opening angle of 60%. The maximum flow speed of 4 m/s may not be exceeded in the control butterfly valve.
²⁾ Configurable with Belimo Assistant 2.
³⁾ 20...120 s configurable with Belimo Assistant 2.
⁴⁾ 30...120 s configurable with Belimo Assistant 2.
⁵⁾ Linkage is required only in combination with a JR or PR actuator.

DN 350...700

Field of use	Closed and open water circuit (pH >7)
Fluid temperature	-10...120°C
Pipe connection	Flange (ISO 7005-2 and EN 1092-2)
Leakage rate	Tight, leakage rate A (EN 12266-1)
Flow characteristic	0...60% opening angle: equal percentage
Permissible operating pressure	p _S : 1600 kPa

		PN 10, 16				PN 16																	
		DN 350				DN 400				DN 450		DN 500				DN 600		DN 700					
	Wafer types	$K_{vs}^{(1)}$ [m³/h]	Valve					$K_{vs}^{(1)}$ [m³/h]	Valve			$K_{vs}^{(1)}$ [m³/h]	Valve			$K_{vs}^{(1)}$ [m³/h]	Valve			$K_{vs}^{(1)}$ [m³/h]	Valve		
		3010	D6350N					4140	D6400N			5490	D6450N			7060	D6500N			10900	D6600N		
		PN 16				PN 16																	
		DN 350				DN 400				DN 450		DN 500				DN 600		DN 700					
	Lug types	K_{vs} [m³/h]	Valve					K_{vs} [m³/h]	Valve			K_{vs} [m³/h]	Valve			K_{vs} [m³/h]	Valve			K_{vs} [m³/h]	Valve		
		3010	D6350NL ²⁾					4140	D6400NL ²⁾			5490	D6450NL ²⁾			7060	D6500NL			10900	D6600NL		
	Linkage type	ZSY-703				ZSY-401				ZSY-701		ZSY-702		ZSY-702		ZSY-901		ZSY-902		ZSY-903			
		ΔP_s kPa	ΔP_{max} kPa	ΔP_s kPa	ΔP_{max} kPa	ΔP_s kPa	ΔP_{max} kPa	ΔP_s kPa	ΔP_{max} kPa	ΔP_s kPa	ΔP_{max} kPa	ΔP_s kPa	ΔP_{max} kPa	ΔP_s kPa	ΔP_{max} kPa	ΔP_s kPa	ΔP_{max} kPa	ΔP_s kPa	ΔP_{max} kPa	ΔP_s kPa	ΔP_{max} kPa		

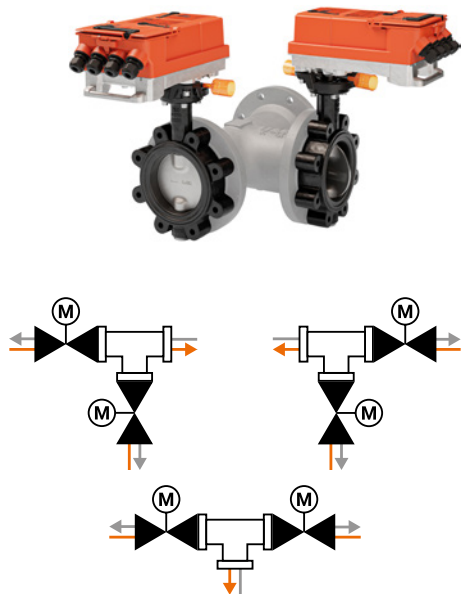
Suitable actuators

SY.. 	650 Nm		■	■	230 V	31 s	2	IP67	SY6-230-MF-T³⁾	600	300				600	300																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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¹⁾ For control applications with an opening angle of 60%. The maximum flow speed of 4 m/s may not be exceeded in the control butterfly valve.
²⁾ The control butterfly valve types D6350...450NL will be replaced by the new types D6350...450WL over the course of the year.
³⁾ The actuator types SY6.. and SY7.. will be replaced by the new types QR.. and YR.. over the course of the year.

DN 100...300

Field of use	Closed and open water circuit (pH >7) for mixing and distribution applications
Fluid temperature	-10...120°C D7.WL/BAC DN 100...150: -20...120°C
Pipe connection	Flange (ISO 7005-1/2, EN 1092-1/2)
Leakage rate	Tight, leakage rate A (EN 12266-1)
Flow characteristic	Characteristic curve configurable with the Belimo Assistant 2: control path A – AB: Equal percentage and bypass B – AB: equal percentage inverted or control path A – AB: linear and bypass B – AB: linear inverted
Permissible operating pressure	p _S : 1600 kPa



																	Suitable T-pieces	
																		
																	Spheroidal graphite cast iron with fastening screws	
PN	DN	K _{vs} [m³/h] ¹⁾	Open/close ²⁾	Modulating (2...10 V / 0.5...10 V) ²⁾	Communication BACnet MS/TP ²⁾	Communication Modbus RTU ²⁾	Communication MP-Bus ²⁾	Nominal voltage	Running time motor 90°	SPDT auxiliary switch	Degree of protection	Control butterfly valve type with actuator	Δp _s kPa	Δp _{max} kPa	T-piece type			
With communicative actuator																		
	16	100	160	■	■	■	■	AC 24...240 V DC 24...125 V	35 s ³⁾	2	IP66/ IP67	D7100WL/BAC ⁵⁾	1400	300	ZD7100 ⁶⁾			
		125	280	■	■	■	■		35 s ³⁾	2	IP66/ IP67	D7125WL/BAC ⁵⁾	1400	300	ZD7125 ⁶⁾			
		150	380	■	■	■	■		35 s ³⁾	2	IP66/ IP67	D7150WL/BAC ⁵⁾	1400	300	ZD7150 ⁶⁾			
		200	800	■	■	■	■		35 s ⁴⁾	4	IP66/ IP67	D7200WL/BAC ⁵⁾	1400	300	ZD7200 ⁶⁾			
		250	1200	■	■	■	■		35 s ⁴⁾	4	IP66/ IP67	D7250WL/BAC ⁵⁾	1400	300	ZD7250 ⁶⁾			
		300	1700	■	■	■	■		35 s ⁴⁾	4	IP66/ IP67	D7300WL/BAC ⁵⁾	1400	300	ZD7300 ⁶⁾			
																		
																	Spheroidal graphite cast iron with fastening screws	
																	T-piece type	

¹⁾ For control applications with opening angle 60% (configurable with Belimo Assistant 2).
The maximum flow speed of 4 m/s may not be exceeded in the control butterfly valve.
²⁾ Configurable with Belimo Assistant 2.
³⁾ 20...120 s configurable with Belimo Assistant 2.
⁴⁾ 30...120 s configurable with Belimo Assistant 2.
⁵⁾ T-piece is not included in scope of delivery.
⁶⁾ The necessary fastening screws and nuts are included in the scope of delivery.

Ball valves

Open/close and changeover applications

Internal thread	Open/close ball valves	2-way		PN 25, 40	DN 15...50	80
	Changeover ball valves	3-way	T-bore	PN 25, 40	DN 15...50	82
External thread	Open/close ball valves	2-way		PN 25, 40	DN 15...50	84
	Changeover ball valves	3-way	T-bore			
Flange	Open/close ball valves	2-way		PN 6	DN 15...50	86
	Changeover ball valves	3-way	T-bore			

Please refer to the data sheets or notes for project planning for further technical data to be observed.

DN 15...50

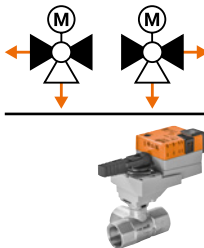
Field of use	2-way: closed and open water circuit (pH >7) 3-way: closed water circuit (pH >7)
Fluid temperature	-10...120°C ¹⁾
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	2-way: air-bubble tight, leakage rate A (EN 12266-1) 3-way: path A – AB: air-bubble tight, leakage rate A (EN 12266-1) / bypass B – AB: leakage class I
Flow	3-way: bypass B – AB: approx. 50% of the K _{VS} value
Permissible operating pressure	p _S : 1600 kPa

Pipe connection		Leakage rate		Flow		Permissible operating pressure		Internal thread Rp (ISO 7-1)		2-way		3-way		PN 40		PN 25																	
														DN 15		DN 20		DN 25		DN 32		DN 40		DN 50									
Nominal torque		Open/close		3-point		Fail-safe		Nominal voltage AC/DC 24 V AC 230 V		Running time motor 90°		Running time fail-safe		Actuator type		K _{VS} [m³/h]		Valve type		K _{VS} [m³/h]		Valve type		K _{VS} [m³/h]		Valve type		K _{VS} [m³/h]		Valve type			
Suitable actuators		Nominal torque		Open/close		3-point		Fail-safe		Nominal voltage AC/DC 24 V AC 230 V		Running time motor 90°		Running time fail-safe		Actuator type		K _{VS} [m³/h]		Valve type		K _{VS} [m³/h]		Valve type		K _{VS} [m³/h]		Valve type		K _{VS} [m³/h]		Valve type	
Compact actuators		Nominal torque		Open/close		3-point		Fail-safe		Nominal voltage AC/DC 24 V AC 230 V		Running time motor 90°		Running time fail-safe		Actuator type		K _{VS} [m³/h]		Valve type		K _{VS} [m³/h]		Valve type		K _{VS} [m³/h]		Valve type		K _{VS} [m³/h]		Valve type	
TR.. TRY..		2 Nm		24 V		100 s		TR24 ³⁾		1400		1000																					
		2 Nm		24 V		35 s		TRY24 ³⁾		1400		1000																					
		2 Nm		230 V		35 s		TRY230 ³⁾		1400		1000																					
		2 Nm		24 V		90 s		LR24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		90 s		NR24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		230 V		90 s		LR230A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		230 V		90 s		NR230A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		90 s		SR24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		230 V		90 s		SR230A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		9 s		LRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		9 s		NRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		9 s		SRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
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		2 Nm		24 V		9 s		SRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		9 s		SRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
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		2 Nm		24 V		9 s		SRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		9 s		SRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		9 s		SRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		9 s		SRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		9 s		SRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		9 s		SRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V		9 s		SRQ24A		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000		1400		1000	
		2 Nm		24 V																													

¹⁾ Compact actuators TR../TRY.. only up to 100°C.
²⁾ Low-noise operation Δp_{max} = 200 kPa.
³⁾ If fluid temperature ≥100°C, then pipeline and valve must be insulated.

DN 15...50

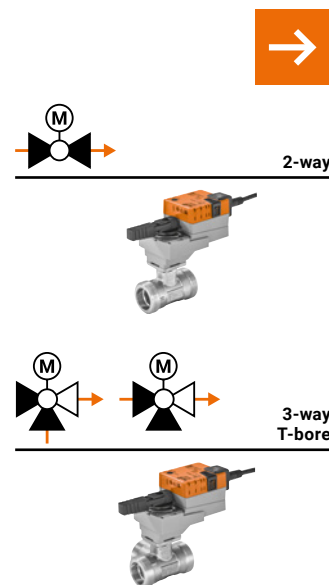
Field of use	Closed and open water circuit (pH >7)
Fluid temperature	-10...100°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Permissible operating pressure	p _S : 1600 kPa

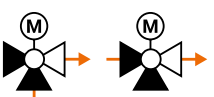
Suitable actuators				PN 40												PN 25																
				DN 15		DN 20		DN 25		DN 32				DN 40				DN 50														
				3-way L-bore		K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type									
Nominal torque	Open/close	3-point	Fail-safe	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Running time fail-safe	Actuator type		Δp_s kPa	$\Delta p_{max}^{1)}$ kPa	Δp_s kPa	$\Delta p_{max}^{1)}$ kPa	Δp_s kPa	$\Delta p_{max}^{1)}$ kPa	Δp_s kPa	$\Delta p_{ma}^{1) \times}$ kPa	Δp_s kPa	$\Delta p_{max}^{1)}$ kPa	Δp_s kPa	$\Delta p_{max}^{1)}$ kPa	Δp_s kPa	$\Delta p_{max}^{1)}$ kPa	Δp_s kPa	$\Delta p_{max}^{1)}$ kPa	Δp_s kPa	$\Delta p_{max}^{1)}$ kPa						
Compact actuators																																
	TR.. TRY..	2 Nm	☐	☐	—	24 V	100 s	—	TR24	—	500	350	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
			☐	☐	—	—	35 s	—	TRY24	—	500	350	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
			☐	☐	—	230 V	35 s	—	TRY230	—	500	350	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
		Without auxiliary switch										With auxiliary switch																				
Standard actuators																																
	LR.. NR.. SR..	5 Nm	☐	☐	—	24 V	90 s	—	LR24A	..-S	500	350	500	350	500	350	—	—	—	—	—	—	—	—	—	—						
			☐	☐	—	230 V		—	LR230A	..-S	500	350	500	350	500	350	—	—	—	—	—	—	—	—	—	—						
		10 Nm	☐	☐	—	24 V	90 s	—	NR24A	..-S	500	350	500	350	500	350	500	350	500	350	500	350	—	—	500	350	—	—				
			☐	☐	—	230 V		—	NR230A	..-S	500	350	500	350	500	350	500	350	500	350	500	350	—	—	500	350	—	—				
		20 Nm	☐	☐	—	24 V	90 s	—	SR24A	..-S	500	350	500	350	500	350	500	350	500	350	500	350	500	350	500	350	500	350				
			☐	☐	—	230 V		—	SR230A	..-S	500	350	500	350	500	350	500	350	500	350	500	350	500	350	500	350	500	350				
Very fast running actuators																																
	LRQ.. NRQ.. SRQ..	4 Nm	☐	—	—	24 V	9 s	—	LRQ24A	—	500	350	500	350	500	350	500	350	—	—	—	—	—	—	—	—						
		8 Nm	☐	—	—	24 V	9 s	—	NRQ24A	—	500	350	500	350	500	350	500	350	500	350	500	350	—	—	—	—						
		16 Nm	☐	—	—	24 V	9 s	—	SRQ24A	—	500	350	500	350	500	350	500	350	500	350	500	350	—	—	500	350	—	—				
		Actuator type NC										Actuator type NO																				
		Without auxiliary switch					With 1 auxiliary switch					Without auxiliary switch					With 1 auxiliary switch															
Fail-safe actuators NC/NO																																
	TRF..	2.5 Nm	☐	—	☐	24 V	75 s	<75 s	TRF24	..-S	..-O	..-S-O	500	350	—	—	—	—	—	—	—	—	—	—	—	—						
			☐	—	☐	230 V			TRF230	..-S	..-O	..-S-O	500	350	—	—	—	—	—	—	—	—	—	—	—	—						
		4 Nm	☐	—	☐	24 V	75 s	<20 s	LRF24	..-S	..-O	..-S-O	500	350	500	350	500	350	500	350	—	—	—	—	—	—						
			☐	—	☐	230 V			LRF230	..-S	..-O	..-S-O	500	350	500	350	500	350	—	—	—	—	—	—	—	—	—					
	LRF..	Without auxiliary switch					With 2 auxiliary switches					Without auxiliary switch					With 2 auxiliary switches															
				☐	☐	24 V	75 s	<20 s	NRF24A	..-S2	..-O	..-S2-O	500	350	500	350	500	350	500	350	500	350	—	—	500	350	—	—				
				☐	☐	AC 24...240 V DC 24...125 V			NRFA	..-S2	..-O	..-S2-O	500	350	500	350	500	350	500	350	500	350	—	—	500	350	—	—				
				☐	☐	24 V	75 s	<20 s	SRF24A	..-S2	..-O	..-S2-O	500	350	500	350	500	350	500	350	500	350	500	350	500	350						
	NRF.. SRF..			☐	☐	AC 24...240 V DC 24...125 V			SRFA	..-S2	..-O	..-S2-O	500	350	500	350	500	350	500	350	500	350	500	350	500	350						

¹⁾ Low-noise operation Δp_{max} = 200 kPa.

DN 15...50

Field of use	Closed and open water circuit (pH >7)
Fluid temperature	-10...100°C
Pipe connection	External thread G (ISO 228-1)
Leakage rate	2-way: air-bubble tight, leakage rate A (EN 12266-1) 3-way: path A – AB: air-bubble tight, leakage rate A (EN 12266-1) / bypass B – AB: leakage class I
Flow	3-way: bypass B – AB: approx. 50% of the K_{VS} value
Permissible operating pressure	p_s : 1600 kPa

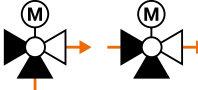


Leakage rate		2-way: air-bubble tight, leakage rate A (EN 12266-1)			PN 40				PN 25										
		3-way: path A – AB: air-bubble tight, leakage rate A (EN 12266-1) / bypass B – AB: leakage class I			DN 15		DN 20		DN 25		DN 32		DN 40		DN 50				
Flow		3-way: bypass B – AB: approx. 50% of the K _{VS} value			2-way	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type		
Permissible operating pressure		p _S : 1600 kPa				8.6	R415	21	R420	26	R425	32	R432	32	R440	49	R450		
					3-way T-bore	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type		
						8.6	R515	21	R520	26	R525	32	R532	32	R540	49	R550		
Suitable actuators	Nominal torque	Open/close	3-point	Fail-safe	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	Running time fail-safe	Actuator type											
									Δp _S kPa	Δp _{max} ¹⁾ kPa	Δp _S kPa	Δp _{max} ¹⁾ kPa	Δp _S kPa	Δp _{max} ¹⁾ kPa	Δp _S kPa	Δp _{max} ¹⁾ kPa	Δp _S kPa		
	Compact actuators																		
	2 Nm	☐	☐	—	24 V	100 s	—	TR24		1400	400	1400	400						
		☐	☐	—		35 s	—	TRY24		1400	400	1400	400						
		☐	☐	—	230 V	35 s	—	TRY230		1400	400	1400	400						
								Without auxiliary switch	With auxiliary switch										
	Standard actuators																		
	5 Nm	☐	☐	—	24 V	90 s	—	LR24A	...S	1400	400	1400	400	1400	400				
		☐	☐	—	230 V		—	LR230A	...S	1400	400	1400	400	1400	400				
	10 Nm	☐	☐	—	24 V	90 s	—	NR24A	...S	1400	400	1400	400	1400	400	1400	400	1400	
		☐	☐	—	230 V		—	NR230A	...S	1400	400	1400	400	1400	400	1400	400	1400	
	20 Nm	☐	☐	—	24 V	90 s	—	SR24A	...S	1400	400	1400	400	1400	400	1400	400	1400	
		☐	☐	—	230 V		—	SR230A	...S	1400	400	1400	400	1400	400	1400	400	1400	
	Very fast running actuators																		
	4 Nm	☐	—	—	24 V	9 s	—	LRQ24A		1400	400	1400	400	1400	400				
	8 Nm	☐	—	—	24 V	9 s	—	NRQ24A		1400	400	1400	400	1400	400	1400	400		
	16 Nm	☐	—	—	24 V	9 s	—	SRQ24A		1400	400	1400	400	1400	400	1400	400	1400	
								Actuator type NC		Actuator type NO									
								Without auxiliary switch	With 1 auxiliary switch	Without auxiliary switch	With 1 auxiliary switch								
	Fail-safe actuators NC/NO																		
	2.5 Nm	☐	—	☐	24 V	75 s	<75 s	TRF24	...S	...O	...S-O	1400	400	1400	400				
		☐	—	☐	230 V		—	TRF230	...S	...O	...S-O	1400	400	1400	400				
		4 Nm	☐	—	☐	24 V	75 s	<20 s	LRF24	...S	...O	...S-O	1400	400	1400	400	1400	400	
			☐	—	☐	230 V		—	LRF230	...S	...O	...S-O	1400	400	1400	400	1400	400	
	10 Nm	☐	—	☐	24 V	75 s	<20 s	Without auxiliary switch	With 1 auxiliary switch	Without auxiliary switch	With 1 auxiliary switch	1400	400	1400	400	1400	400	1400	
		☐	—	☐	AC 24...240 V DC 24...125 V		—	NRF24A	...S2	...O	...S2-O	1400	400	1400	400	1400	400	1400	
		20 Nm	☐	—	☐	24 V	75 s	<20 s	SRF24A	...S2	...O	...S2-O	1400	400	1400	400	1400	400	1400
			☐	—	☐	AC 24...240 V DC 24...125 V		—	SRFA	...S2	...O	...S2-O	1400	400	1400	400	1400	400	1400

¹⁾ Low-noise operation $\Delta p_{\max} = 200 \text{ kPa}$.

DN 15...50

Field of use	2-way: closed and open water circuit (pH >7) 3-way: closed water circuit (pH >7)
Fluid temperature	-10...100°C
Pipe connection	Flange PN 6 (EN 1092-1/4)
Leakage rate	2-way: air-bubble tight, leakage rate A (EN 12266-1) 3-way: path A – AB: air-bubble tight, leakage rate A (EN 12266-1) / bypass B – AB: leakage class I
Flow	3-way: bypass B – AB: approx. 50% of the K _{VS} value
Permissible operating pressure	p _S : 600 kPa

Suitable actuators		Nominal torque		Open/close		3-point		Fail-safe		Nominal voltage AC/DC 24 V AC 230 V		Running time motor 90°		Running time fail-safe		Actuator type		PN 6															
																		DN 15		DN 20		DN 25		DN 32		DN 40		DN 50					
																		K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type	K _{VS} [m³/h]	Valve type		
																			2-way	15	R6015R-B1	32	R6020R-B1	26	R6025R-B2	32	R6032R-B3	31	R6040R-B3	49	R6050R-B3		
																			3-way T-bore	15	R7015R-B1	32	R7020R-B1	26	R7025R-B2	32	R7032R-B3	31	R7040R-B3	49	R7050R-B3		
																				Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa
Compact actuators																																	
	2 Nm	☐	☐	☐	24 V	35 s		TR24	600	100	600	100																					
		☐	☐	☐		100 s		TRY24	600	100	600	100																					
		☐	☐	☐	230 V	35 s		TRY230	600	100	600	100																					
									Without auxiliary switch		With auxiliary switch																						
Standard actuators																																	
	5 Nm	☐	☐	☐	24 V	90 s		LR24A	600	100	600	100	600	100																			
		☐	☐	☐	230 V			LR230A	600	100	600	100	600	100																			
	10 Nm	☐	☐	☐	24 V	90 s		NR24A	600	100	600	100	600	100	600	100	600	100	600	100	600	100	600	100									
		☐	☐	☐	230 V			NR230A	600	100	600	100	600	100	600	100	600	100	600	100	600	100	600	100									
	20 Nm	☐	☐	☐	24 V	90 s		SR24A	600	100	600	100	600	100	600	100	600	100	600	100	600	100	600	100									
		☐	☐	☐	230 V			SR230A	600	100	600	100	600	100	600	100	600	100	600	100	600	100	600	100									
Very fast running actuators																																	
	4 Nm	☐			24 V	9 s		LRQ24A	600	100	600	100	600	100																			
	8 Nm	☐			24 V	9 s		NRQ24A	600	100	600	100	600	100	600	100	600	100	600	100	600	100											
	16 Nm	☐			24 V	9 s		SRQ24A	600	100	600	100	600	100	600	100	600	100	600	100	600	100	600	100									
									Actuator type NC		Actuator type NO																						
									Without auxiliary switch	With 1 auxiliary switch	Without auxiliary switch	With 1 auxiliary switch																					
Fail-safe actuators NC/NO																																	
	2.5 Nm	☐		☐	24 V	75 s <75 s		TRF24	600	100	600	100																					
		☐		☐	230 V			TRF230	600	100	600	100																					
	4 Nm	☐		☐	24 V	75 s <20 s		LRF24	600	100	600	100	600	100																			
		☐		☐	230 V			LRF230	600	100	600	100	600	100	600	100																	
	10 Nm	☐		☐	24 V	75 s <20 s		NRF24A	600	100	600	100	600	100	600	100	600	100	600	100	600	100	600	100									
		☐		☐	AC 24...240 V DC 24...125 V			NRFA	600	100	600	100	600	100	600	100	600	100	600	100	600	100	600	100									
	20 Nm	☐		☐	24 V	75 s <20 s		SRF24A	600	100	600	100	600	100	600	100	600	100	600	100	600	100	600	100									
		☐		☐	AC 24...240 V DC 24...125 V			SRFA	600	100	600	100	600	100	600	100	600	100	600	100	600	100	600	100									



10

Potable water valves

Certified in accordance with ACS, DVGW, WRAS, ÜA

Rotary valves	Internal thread	2-way	PN 25/40	DN 15...50	90
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Please refer to the data sheets or notes for project planning for further technical data to be observed.

DN 15...50

Field of use	Drinking water applications (open/close)
Fluid temperature	5...100°C
Pipe connection	Internal thread Rp (ISO 7-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Drinking water certificate	ACS, DVGW, WRAS, ÜA

		→ PN 40 PN 25																		
		DN 15		DN 15		DN 20		DN 25		DN 32		DN 40		DN 50						
		K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type	K_{vs} [m³/h]	Valve type					
Suitable actuators	Nominal torque	Open/close	3-point	Fail-safe	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	SPDT auxiliary switch	Actuator type	2-way	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	Δp_s kPa	Δp_{max} kPa	
									Standard actuators											
CQ..		10 Nm	☐	☐	24 V	75 s	1	CQ24A		1600	200									
			☐	☐	230 V			CQ230A	1600	200										
LR.. NR..		20 Nm	☐	☐	24 V	90 s	1	LR24A			1600	200	1600	200	1600	200				
			☐	☐	230 V		1	LR24A-S			1600	200	1600	200	1600	200				
		☐	☐	230 V	1	LR230A			1600	200	1600	200	1600	200						
		☐	☐			NR230A-S			1600	200	1600	200	1600	200						
SR..		40 Nm	☐	☐	24 V	90 s	1	NR24A								1600	170			
			☐	☐	230 V		1	NR24A-S							1600	170				
		☐	☐	230 V		NR230A ¹⁾							1600	170						
		☐	☐			NR230A-S						1600	170							
		☐	☐	24 V	90 s		SR24A									1600	170	1600	130	
		☐	☐	230 V			SR24A-S									1600	170	1600	130	
CQK..		1 Nm	☐		☐	24 V	75 s		CQK24A	1600	200									
			☐		230 V			CQK230A	1600	200										
LRF..		4 Nm	☐		☐	24 V	75 s	1	LRF24			1600	200	1600	200	1600	200			
			☐	☐	230 V	1		LRF24-S			1600	200	1600	200	1600	200				
		☐	☐	AC 24...240 V DC 24...125 V	75 s		LRF230			1600	200	1600	200	1600	200					
		☐	☐			1	LRF230-S			1600	200	1600	200	1600	200					
NRF.. SRF..		10 Nm	☐		☐	75 s		NRFA							1600	170				
			☐	☐	2		NRFA-S2							1600	170					
		☐	☐	24 V	75 s	2	SRF24A									1600	170	1600	130	
		☐	☐	AC 24...240 V DC 24...125 V		2	SRF24A-S2									1600	170	1600	130	
						2	SRFA								1600	170	1600	130		
						2	SRFA-S2								1600	170	1600	130		

¹⁾ Actuators NR230A and SR230A are also available as fast running actuators on request.

11

Open/close and changeover butterfly valves

Open/close and changeover applications

Wafer types	2-way	PN 6, 10, 16	DN 25...300	94
		PN 10, 16	DN 350	96
		PN 16	DN 400...700	96
Lug types	2-way	PN 10, 16	DN 25...150	94
		PN 16	DN 200...300	94
		PN 16	DN 350...700	96
	3-way	PN 16	DN 100...300	98
Definitions	Formula symbols			99

Please refer to the data sheets or notes for project planning for further technical data to be observed.

DN 25...300

Field of use		Closed and open water circuit (pH >7)				PN 6, 10, 16												PN 6, 10, 16																			
Fluid temperature		DN 25...80: -10...120°C DN 100...150: -20...120°C DN 200...300: -10...120°C				DN 25		DN 32		DN 40		DN 50		DN 65		DN 80		DN 100		DN 125		DN 150		DN 200		DN 250		DN 300									
Pipe connection		Flange (ISO 7005-2 and EN 1092-2) D6..W additionally: ISO 7005-1 and EN 1092-1				Wafer types		K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type								
Leakage rate		Tight, leakage rate A (EN 12266-1)						50	D625N	55	D632N	65	D640N	100	D650N	170	D665N	260	D680N	690	D6100W	990	D6125W	1780	D6150W	2200	D6200W	4200	D6250W	5700	D6300W						
Permissible operating pressure		p _s : 1600 kPa																																			
								PN 10, 16												PN 10, 16												PN 16					
								DN 25		DN 32		DN 40		DN 50		DN 65		DN 80		DN 100		DN 125		DN 150		DN 200		DN 250		DN 300							
						Lug types		K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type	K_{vmax} [m³/h]	Valve type								
								50	D625NL	55	D632NL	65	D640NL	100	D650NL	170	D665NL	260	D680NL	690	D6100WL	990	D6125WL	1780	D6150WL	2200	D6200WL	4200	D6250WL	5700	D6300WL						
Suitable actuators		Nominal torque	Open/close	3-point	Communicative	Terminal connection	Fail-safe	Nominal voltage AC/DC 24 V AC 230 V	Running time motor 90°	SPDT auxiliary switch	Degree of protection	Actuator type	Linkage type			ZJR03 ⁴⁾		ZJR03 ⁴⁾		ZJR03 / ZPR03 ⁴⁾		ZJR03 / ZPR03		ZJR01 / ZPR01		ZJR01 / ZPR01		ZPR01		ZPR01		ZPR01					
														Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa	Δp _s kPa	Δp _{max} kPa						
Standard actuators																																					
SR..		20 Nm							24 V	90 s		IP54	SR24A-5	1200	300	1200	300	1200	300	1200	300																
									230 V					SR230A-5	1200	300	1200	300	1200	300																	
GR..		40 Nm						24 V	150 s		IP54	GR24A-5	1200	300	1200	300	1200	300	1200	300	1200	300															
							230 V	GR230A-5					1200	300	1200	300	1200	300	1200	300	1200	300															
Fast running actuators																																					
JR..		40 Nm						24 V	35 s		IP54	GRC24A-5 ¹⁾	1200	300	1200	300	1200	300	1200	300	1200	300															
							230 V	GRC230A-5 ¹⁾					1200	300	1200	300	1200	300	1200	300	1200	300															
SRF..		160 Nm						AC 24...240 V DC 24...125 V	35 s ²⁾	2	IP66/ IP67	JRCA-S2-T		1200	300	1200	300	1200	300	1200	300	1400	300	1400	300	1400	300			1400	300						
																																					
Fail-safe actuators NC/NO																																					
GRK..		20 Nm						24 V	75 s	2	IP54	SRF24A-5	1200	300	1200	300	1200	300	1200		1200																
																																					
																																					
																																					
PRK..		40 Nm						4 V	150 s		IP54	GRK24A-5	1200	300	1200	300	1200	300	1200		1200	300															
																																					
																																					
																																					
PRK..		160 Nm						AC 24...240 V DC 24...125 V	35 s ²⁾	2	IP66/ IP67	PRKCA-BAC-S2-T																	1400	300							
																																					

¹⁾ These products are also available as IP66 variant with protective housing.

²⁾ 30...120 s configurable with Belimo Assistant 2.

3) Configurable with Belimo Assistant 2.

4) Linkage is required only in combination with a JR or PR actuator

DN 350...700

Field of use	Closed and open water circuit (pH >7)
Fluid temperature	-10...120°C
Pipe connection	Flange (ISO 7005-2 and EN 1092-2)
Leakage rate	Tight, leakage rate A (EN 12266-1)
Permissible operating pressure	p _S : 1600 kPa

Suitable actuators 	Nominal torque	Open/close	3-point	Terminal connection	Nominal voltage AC 230 V	Running time motor 90°	SPDT auxiliary switch	Degree of protection	Actuator type	 Linkage type	PN 10, 16		DN 350				DN 400				DN 450				DN 500				DN 600				DN 700							
													K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type	
											10900		D6350N		14200		D6400N		18800		D6450N		24100		D6500N		37300		D6600N		42800		D6700N							
											PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700									
													K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type	
											10900		D6350NL		14200		D6400NL		18800		D6450NL		24100		D6500NL		37300		D6600NL		42800		D6700NL							
											PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700									
											K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type			
											10900		D6350NL		14200		D6400NL		18800		D6450NL		24100		D6500NL		37300		D6600NL		42800		D6700NL							
											PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700									
K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
10900		D6350NL		14200		D6400NL		18800		D6450NL		24100		D6500NL		37300		D6600NL		42800		D6700NL																		
PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700																				
K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
10900		D6350NL		14200		D6400NL		18800		D6450NL		24100		D6500NL		37300		D6600NL		42800		D6700NL																		
PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700																				
K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
10900		D6350NL		14200		D6400NL		18800		D6450NL		24100		D6500NL		37300		D6600NL		42800		D6700NL																		
PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700																				
K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
10900		D6350NL		14200		D6400NL		18800		D6450NL		24100		D6500NL		37300		D6600NL		42800		D6700NL																		
PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700																				
K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
10900		D6350NL		14200		D6400NL		18800		D6450NL		24100		D6500NL		37300		D6600NL		42800		D6700NL																		
PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700																				
K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
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PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700																				
K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
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PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700																				
K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
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PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700																				
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10900		D6350NL		14200		D6400NL		18800		D6450NL		24100		D6500NL		37300		D6600NL		42800		D6700NL																		
PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700																				
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K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
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K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
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K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
10900		D6350NL		14200		D6400NL		18800		D6450NL		24100		D6500NL		37300		D6600NL		42800		D6700NL																		
PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700																				
K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type														
10900		D6350NL		14200		D6400NL		18800		D6450NL		24100		D6500NL		37300		D6600NL		42800		D6700NL																		
PN 16		DN 350		DN 400				DN 450				DN 500				DN 600				DN 700																				
K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _{vmax} [m³/h]		Valve type		K _v																												

All inclusive.

Belimo is the global market leader in the development, production, and sales of field devices for the energy-efficient control of heating, ventilation and air-conditioning systems. The focus of our core business is on damper actuators, control valves, sensors and meters.

Always focusing on customer value, we deliver more than only products. We offer you the complete product range for the regulation and control of HVAC systems from a single source. At the same time, we rely on tested Swiss quality with a five-year warranty. Our worldwide representatives in over 80 countries guarantee short delivery times and comprehensive support through the entire product life. Belimo does indeed include everything.

The "small" Belimo devices have a big impact on comfort, energy efficiency, safety, installation and maintenance.

In short: Small devices, big impact.



5-year warranty



On site around the globe



Complete product range



Tested quality



Short delivery times



Comprehensive support



BELIMO Automation AG

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