

The complete range of water solutions

2008



5
Years Guarantee
SWISS QUALITY

BELIMO[®]

					LR / LRF	SR / ARF				
		Running times	Control (Operating range)							
3-Point	AC / DC 24 V	90 s	2 wires		LR24A(-S)	SR24A(-S)				
	AC 230V	90 s	2 wires		LR230A(-S)	SR230A(-S)				
Modulating	AC/DC 24 V	35 s	DC 0 (2) ... 10 V		LRC24A-SR					
		90 s	DC 0 (2) ... 10 V		LR24A-SR	SR24A-SR				
	Motor: <150 s Spring: <20s / <16 s	DC 0 (2) ... 10 V		•	LRF24-SR(-O)	ARF24-SR-S(-O)				
Pressure-independent control ball valve Internal thread Rp (ISO 7/1) $ps = 1600 \text{ kPa}$ $T_{max} = 100^\circ \text{C}$					Range of use closed circuits (pH > 7)					
			DN [mm]	Rp	V [l/s]		Δp_s [kPa]	Δp_{max} [kPa]	Δp_s [kPa]	Δp_{max} [kPa]
			R215P-009 / R215P-036	15	1/2"	0.09 / 0.36	700	350	700	350
			R220P-036 / R220P-066	20	3/4"	0.36 / 0.66				
			R225P-057 / R225P-098	25	1"	0.57 / 0.98	700	350		
			R232P-098 / R232P-151	32	1 1/4"	0.98 / 1.51			700	350
			R240P-164 / R240P-208	40	1 1/2"	1.64 / 2.08				
			R250P-252 / R250P-505	50	2"	2.52 / 505			700	350

Control ball valves with small actuators

					TRD / TRFD	TR / TRF				
		Running times	Control / (Operating range)							
3-Point	AC/DC 24V	Motor: 90 s Spring: <25 s	2 wires	•	TRFD24-2(-O)	TRF24-2(-O)				
		95 s	2 wires		TRD24	TR24				
	AC 230 V	105 s	2 wires		TRD230-3 ⁵⁾	TR230-3 ⁵⁾				
Modulating	AC/DC 24V	15 s	DC 0 (2) ... 10 V		TRC24A-SR	TRC24A-SR				
		90 s	DC 0 (2) ... 10 V		TRD24-SR	TR24-SR				
	Motor: 90 s Spring: <25 s	DC 0 (2) ... 10 V		•	TRFD24-SR(-O)	TRF24-SR(-O)				
Internal thread Rp (ISO 7/1) 2-way External thread G (ISO 228/1) 3-way $ps = 4140 \text{ kPa}$ $T_{max} = 100^\circ \text{C}$ ³⁾					Range of use: closed / open circuits, (pH > 7)					
			DN [mm]	kvs ¹⁾ [m ³ /h]			Δp_s [kPa]	Δp_{max} [kPa]	Δp_s [kPa]	Δp_{max} [kPa]
			R205K ... R209K	10	0.25 / 0.4 / 0.63 / 1 / 1.6 ⁴⁾		1400	350 ²⁾		
			R209 ... R214	15	0.63 / 1 / 1.6 / 2.5 / 4 / 6.3 ⁴⁾				1400	350 ²⁾
			R217... R219	20	4 / 6.3 / 8.6 ⁴⁾				1400	350 ²⁾

1) to 5) see page 3

		Running times		Control / (Operating range)		TR / TRF	LR / LRF	HR
3-Point	AC/DC 24V	TR: 90 s	LR: 90 s	HR: 140 s	2 wires			
	Motor: Spring:	90 s <25 s			2 wires			
Modulating	AC/DC 24V	9 s			DC 0 (2) ... 10 V			
		15 s			DC 0 (2) ... 10 V			
		35 s			DC 0 (2) ... 10 V			
		90 s			DC 0 (2) ... 10 V			
	Motor: Spring:	90 s <25 s	<150 s <20 s		DC 0 (2) ... 10 V			

Internal thread Rp (ISO 7/1)		External thread G (ISO 228/1)		Range of use: closed / open circuits, (pH > 7)					
2-way 		$p_s = 2700 \text{ kPa } T_{\text{max}} = 130^\circ\text{C (water)}^3$							
	DN [mm]	kvs ¹⁾ [m ³ /h]		Δp_s [kPa]	Δp_{max} [kPa]	Δp_s [kPa]	Δp_{max} [kPa]	Δp_s [kPa]	Δp_{max} [kPa]
R404DK..R410DK	10	0.25 / 0.4 / 0.63 / 1 / 1.6 ⁴⁾		1400	800 ²⁾				
R412D..R415D	15	0.63 / 1 / 1.6 / 2.5 / 4 / 6.3 ⁴⁾				1400	800 ²⁾	1400	800
R417D..R420D	20	4 / 6.3 / 8.6 ⁴⁾				1400	800 ²⁾	1400	800

Explanations:

- 1) $k_{VS} = A - AB, k_{VS} (B - AB) = 70\% \times k_{VS}$
- 1a) $k_{VS} = A - AB, k_{VS} (B - AB) = 50\% \times k_{VS}$
- 2) low noise operation, $\Delta p_{\text{max}} = 200 \text{ kPa}$
- 3) Temperature of -10 ... +5 °C with stem heating expecting
 - control ball valve DN 10 and R529, R530, R538, R540, R548, R550
 - globe valve H7125N, H7150N
- 4) 2-way valves only
- 5) Parallel control not possible
- 6) MFT types: Running times, control signal, stroke limitation and other functions can be parameterised with PC-Tool or the parameterising device MFT-H
Delivery state: modulating
- 7) Closing force 1000 N / inhibiting force 800 N
- 8) When NVF..E is deenergised, globe valves H..B, H..N and H..R are open (NO).
- 9) When NVF..E is deenergised, globe valves H6..S and H6..SP are closed (NC).
- 10) can be switched to DC 0 (2) ... 10 V

Actuator types **without** „-O“: NC (normally closed)

Actuator types **with** „-O“: NO (normally open)

Actuator types with „-S“: with auxiliary switch

		Running times		Control / (Operating range)		LR / LRF	SR / ARF	SR RobustLine	HR
								IP 66/67 	
						LR: 5 ... 110°C ³⁾ LRF: 5 ... 100°C ³⁾	SR: 5 ... 110°C ³⁾ ARF: 5 ... 100°C ³⁾		5 ... 110°C ³⁾
3-Point	AC/DC 24V	LR: 90 s		2 wires		LR24A(-S)	SR24A(-S)	SR24P	
	AC 24 V		HR: 140 s	2 wires					HR24-3(-S) ⁵⁾
	AC 230V	LR/SR: 90 s	HR: 140 s	2 wires		LR230A(-S)	SR230A(-S)	SR230P	HR230-3(-S) ⁵⁾
Modulating	AC/DC 24 V	LRC: 35 s	HR:Y: 35 s	LRC: DC 0 (2) ... 10 V HR:Y: DC 0 (0,5) ... 10 V DC 0 (2) ... 10 V ¹⁰⁾		LRC24A-SR			HR:Y24-SR
		LR/SR: 90 s	HR: 140 s	DC 0 (2) ... 10 V		LR24A-SR	SR24A-SR	SR24P-SR	HR24-SR
		Motor: 150 s Spring: 20/16 s		DC 0 (2) ... 10 V	•	LRF24-SR(-O)	ARF24-SR-S(-O)		

Internal thread Rp (ISO 7/1)		External thread G (ISO 228/1)		ps (DN10..25) = 4140 kPa		Range of use: Closed circuits, open circuits (ph > 7)					
2-way	3-way	2-way	3-way	ps (DN32..50) = 2760 kPa		Δp_s	Δp_{max}	Δp_s	Δp_{max}	Δp_s	Δp_{max}
				DN [mm]	kvs ¹⁾ [m ³ /h]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]
R209 ... R214	R309 ... R313	R409 ... R414	R509 ... R513	15	0.63 / 1 / 1.6 / 2.5 / 4 / 6.3 ⁴⁾	1400	350 ²⁾	1400	350 ²⁾	1400	350 ²⁾
R217 ... R219	R317 / R318	R417 ... R419	R517 / R518	20	4 / 6.3 / 8.6 ⁴⁾						
R222 ... R224	R322 / R323	R422 ... R424	R522 / R523	25	6.3 / 10 / 16 ⁴⁾	1400	350 ²⁾				
R231	R331	R431	R531	32	16			1400	350 ²⁾	1400	350 ²⁾
R238 / R239	R338	R438 / R439	R538	40	16 / 25 ⁴⁾						
R248 / R249	R348	R448 / R449	R548	50	25 / 40 ⁴⁾			1400	350 ²⁾	1400	350 ²⁾

1) to 5), 10) see page 3

				LR / LRF	SR / ARF	SR RobustLine	HR		
Running times				Control / (Operating range)		IP 66/67			
				LR: 5 ... 110°C ³⁾ LRF: 5 ... 100°C ³⁾		SR: 5 ... 110°C ³⁾ ARF: 5 ... 100°C ³⁾			
				5 ... 110°C ³⁾					
3-Point	AC / DC 24 V	LR: 90 s		2 wires		LR24A(-S)	SR24A(-S)	SR24P	
	AC 24 V		HR: 140 s	2 wires					HR24-3(-S) ⁵⁾
	AC 230V	LR/SR: 90 s	HR: 140 s	2 wires		LR230A(-S)	SR230A(-S)	SR230P	HR230-3(-S) ⁵⁾
Modulating	AC / DC 24 V	LRC: 35 s	HR: 35 s	LRC: DC 0 (2) ... 10 V HR: DC 0 (0,5) ... 10 V DC 0 (2) ... 10 V ¹⁰⁾		LRC24A-SR			HR24-SR
		LR/SR: 90 s	HR: 140 s	DC 0 (2) ... 10 V		LR24A-SR	SR24A-SR	SR24P-SR	HR24-SR
		Motor: 150 s Spring: 20 s	Motor: 150 s Spring: 16 s	DC 0 (2) ... 10 V	•	LRF24-SR(-O)	ARF24-SR-S(-O)		

Flange (EN 1092/1)		PN6		Range of use: Closed circuits, open circuits (ph > 7)					
2-way	3-way	DN [mm]	kvs ¹⁾ [m ³ /h]	Δp_s [kPa]	Δp_{max} [kPa]	Δp_s [kPa]	Δp_{max} [kPa]	Δp_s [kPa]	Δp_{max} [kPa]
R609R ... R613R	R709R / R711R / R713R	15	0.63 / 1 ⁴⁾ / 1.6 / 2.5 ⁴⁾ / 4	600	100	600	100	600	100
R618R	R718R	20	6.3						
R623R	R723R	25	10	600	100				
R631R	R731R	32	16			600	100	600	100
R639R	R738R	40	16 / 25 ⁴⁾						
R649R	R748R	50	25 / 40 ⁴⁾					600	100
R664R		65	58						
R679R		80	90			600	100		

1), 3), 4), 5) and 10) see page 3

				NVD*	NVF*	NV*	NVG*	AV	AV	
				500 N 20 mm	800 N 20 mm	1000 N ⁷⁾ 20 mm	1600 N 20 mm	2000 N 50 mm	2500 N 50 mm	
	Running times	Control / (Operating range)								
3-Point	AC/DC 24V	7,5 s/mm / 3,8 s/mm	2 wires			NV24-3		AV24-3		
	AC 230V	7,5 s/mm / 3,8 s/mm	2 wires			NV230-3		AV230-3		
Modulating	AC/DC 24V	150 s	DC 0 (2) ... 10 V	NVD24-SR						
Multifunctional ⁶⁾	AC/DC 24V	NVY 35 s / AVY 60 s	DC 0 ...	NVY24-MFT						AVY24-MFT
		150 s	DC 0 (2) ... 10 V					NV24-MFT	NVG24-MFT	AV24-MFT
	Motor: 150 s Spring: 30 s	DC 0 (2) ... 10 V	•	NVF24-MFT NVF24-MFT-E ⁸⁾						







External thread (ISO 228)				PN16, T_{max}=120°C ³⁾													
2-way		3-way		DN	kvs	Range of use closed circuits, open circuits (pH > 7)											
				[mm]	[m³/h]	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}
						[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]
H411B ... H415B		H511B ... H515B		15	0.63 / 1 / 1.6 / 2.5 / 4	1600	400	1600	400	1600	400	1600	400				
H420B		H520B		20	6.3	1000		1320		1600							
H425B		H525B		25	10	600		1080		1350							
H432B		H532B		32	16	400	400	800		1000		1600					
H440B		H540B		40	25	230	230	440	400	550	400	980					
H450B		H550B		50	40			280	280	350	350	600	400				



Flange (ISO 7005)				PN16, T_{max}=120°C ³⁾													
2-way		3-way		DN	kvs	Range of use closed circuits											
				[mm]	[m³/h]	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}
						[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]
H611N ... H615N		H711N ... H715N		15	0.63 / 1 / 1.6 / 2.5 / 4	1600	400	1600	400	1600	400	1600	400				
H620N		H720N		20	6.3	1000		1320		1600							
H625N		H725N		25	10	600		1080		1350							
H632N		H732N		32	16	400	400	800		1000		1600					
H640N		H740N		40	25	230	230	440	400	550	400	980					
H650N		H750N		50	40			280	280	350	350	600	400				
H664N		H764N		65	58			160	160	200	200	320	320				
H665N		H765N		65	63									400	400	500	400
H679N		H779N		80	90			100	100	135	135	210	210				
H680N		H780N		80	100									270	270	340	340
H6100N		H7100N		100	145									160	160	200	200
		H7125N		125	220									90	90	115	115
		H7150N		150	320									60	60	75	75

Flange (ISO 7005)				PN6, T_{max}=120°C ³⁾													
2-way		3-way		DN	kvs	Range of use closed circuits											
				[mm]	[m³/h]	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}	Δp _s	Δp _{max}
						[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]
H611R ... H615R		H711R ... H715R		15	0.63 / 1 / 1.6 / 2.5 / 4	600	400	600	400	600	400	600	400				
H620R		H720R		20	6.3												
H625R		H725R		25	10	600											
H632R		H732R		32	16	400	400	600		600							
H640R		H740R		40	25	230	230	440	400	550	400						
H650R		H750R		50	40			280	280	350	350	600	400				
H664R		H764R		65	58			160	160	200	200	320	320				
H679R		H779R		80	90			100	100	135	135	210	210				
H6100R		H7100R		100	145									160	160	200	200

*Required bracket: UNV-002

3), 6), 7) and 8) see page 3

		Running times		Control / (Working range)		NVF*	NV*	NVG*	AV	AV
										
3-Point	AC/DC 24V	7,5 s/mm / 3,8 s/mm	2 wires				NV24-3		AV24-3	
	AC 230V	7,5 s/mm / 3,8 s/mm	2 wires				NV230-3		AV230-3	
Multifunctional ⁶⁾	AC/DC 24V	NVY 35 s / AVY 60 s	DC 0 ...				NVY24-MFT			AVY24-MFT
		150 s	DC 0 (2) ... 10 V				NV24-MFT	NVG24-MFT		AV24-MFT
	Motor: 150 s Spring: 30 s	DC 0 (2) ... 10 V				NVF24-MFT NVF24-MFT-E ⁹⁾				

Flange (ISO 7005) 2-way  	PN16, T _{max} = 150 ° C		Range of use closed circuits, steam: pressure ratio < 0,4 [$\frac{\Delta p}{p_1}$]											
	DN [mm]	kvs [m ³ /h]	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]
H610S ... H615S	15	0.4 / 0.63 / 1 / 1.6 / 2.5 / 4	1600	1000	1600	1000	1600	1000						
H619S / H620S	20	4 / 6.3	1320		1600									
H624S / H625S	25	6.3 / 10	1080	1000	1350									
H632S	32	16	800	800	1000	1000	1600	1000						
H640S	40	25	440	440	550	550	980	980						
H650S	50	40	280	280	350	350	600	600						
H664S	65	58			200	200	320	320						
H665S	65	63							400	400	500	400		
H680S	80	100							270	270	340	340		
H6100S	100	145							160	160	200	200		
H6125S	125	220							90	90	115	115		
H6150S	150	320							60	60	75	75		

Flange (ISO 7005), partial pressure released 2-way	PN16, T _{max} = 150 ° C		Range of use closed circuits, steam: pressure ratio < 0,4 [$\frac{\Delta p}{p_1}$]											
	DN [mm]	kvs [m ³ /h]	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]
H640SP	40	25	1600	1000	1600	1000								
H650SP	50	40	1600	1000	1600	1000								
H664SP	65	58	1350	800	1600	800								
H679SP	80	90	1300	400	1600	400								
H6100SP	100	145							600	400	600	400		
H6125SP	125	220							600	300	600	300		
H6150SP	150	320							600	200	600	200		

*Required bracket: UNV-002

6) and 9) see page 3

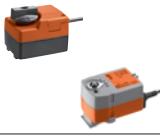
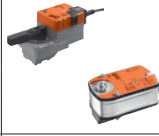
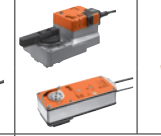

		TR / TRF	LR / LRF	SR / ARF	SR RobustLine		
					IP 66/67		
Running times		5...100°C ³⁾	LR: 5 ... 110°C ³⁾ LRF: 5 ... 100°C ³⁾	SR: 5 ... 110°C ³⁾ ARF: 5 ... 100°C ³⁾			
Open / Close	AC/DC 24V	1 wire					
	Motor: TRF: 75 s LRF: 75 s ARF: 150 s	1 wire	•	TR24	LR24A(-S)	SR24A(-S)	SR24P
	Spring: TRF: 75 s LRF: 20 s ARF: 16 s			TRF24(-S)(-O)	LRF24(-S)(-O)	ARF24(-S)(-O)	
	AC 230V	1 wire			LR230A(-S)	SR230A(-S)	SR230P
Motor: TRF: 75 s ⁶⁾ LRF: 75 s ARF: 150 s	1 wire	•	TRF230(-S)(-O)	LRF230(-S)(-O)	ARF230-S(-O)		
Spring: TRF: 75 s ⁶⁾ LRF: 20 s ARF: 16 s							

Internal thread Rp (ISO 7/1), shut-off ball valve		ps (DN15..25) = 4140 kPa ps (DN32..50) = 2760 kPa		Range of use: closed circuits, open circuits (pH > 7)					
2-way	3-way	DN [mm]	kvs ^{1a)} [m ³ /h]	Δp _S [kPa]	Δp _{max} [kPa]	Δp _S [kPa]	Δp _{max} [kPa]	Δp _S [kPa]	Δp _{max} [kPa]
R215	R315	15	8.6	1400	1000 ²⁾	1400	1000 ²⁾	1400	1000 ²⁾
R220	R320	20	21	1400	1000 ²⁾				
R225	R325	25	26			1400	1000 ²⁾		
R232	R332	32	32					1400	1000 ²⁾
R240	R340	40	32						
R250	R350	50	49					1400	1000 ²⁾

External thread (ISO 228/1), shut-off ball valve		ps (DN15..25) = 4140 kPa ps (DN32..50) = 2760 kPa		Range of use: closed circuits, open circuits (pH > 7)					
2-way	3-way	DN [mm]	kvs ^{1a)} [m ³ /h]	Δp _S [kPa]	Δp _{max} [kPa]	Δp _S [kPa]	Δp _{max} [kPa]	Δp _S [kPa]	Δp _{max} [kPa]
R415	R515	15	8.6	1400	1000 ²⁾	1400	1000 ²⁾	1400	1000 ²⁾
R420	R520	20	21	1400	1000 ²⁾				
R425	R525	25	26			1400	1000 ²⁾		
R432	R532	32	32					1400	1000 ²⁾
R440	R540	40	32						
R450	R550	50	49					1400	1000 ²⁾

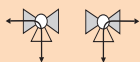
Flange (EN 1092/1), shut-off ball valve		PN6		Range of use: closed circuits, open circuits (pH > 7)					
2-way	3-way	DN [mm]	kvs ^{1a)} [m ³ /h]	Δp _S [kPa]	Δp _{max} [kPa]	Δp _S [kPa]	Δp _{max} [kPa]	Δp _S [kPa]	Δp _{max} [kPa]
R615R	R715R	15	8.6	600	100 ²⁾	600	100 ²⁾	600	1000 ²⁾
R620R	R720R	20	21	600	100 ²⁾				
R625R	R725R	25	26			600	100 ²⁾		
R632R	R732R	32	32					600	1000 ²⁾
R640R	R740R	40	32						
R650R	R750R	50	49						
R665R		65	160						
R680R		80	160					600	1000 ²⁾

1a), 2), 3) and 6) see page 3

		TR / TRF	LR / LRF	SR / ARF	SR RobustLine		
							
Running times							
Control							
		5...100°C ³⁾	LR: 5 ... 110°C ³⁾ LRF: 5 ... 100°C ³⁾	SR: 5 ... 110°C ³⁾ ARF: 5 ... 100°C ³⁾			
Open / Close	AC/DC 24V	1 wire					
	Motor: TRF: 75 s LRF: 75 s ARF: 150 s	1 wire	•	TR24	LR24A(-S)	SR24A(-S)	SR24P
	Spring: TRF: 75 s LRF: 20 s ARF: 16 s			TRF24(-S)(-O)	LRF24(-S)(-O)	ARF24(-S)(-O)	
	AC 230V	1 wire			LR230A(-S)	SR230A(-S)	SR230P
Motor: TRF: 75 s ⁶⁾ LRF: 75 s ARF: 150 s	1 wire	•	TRF230(-S)(-O)	LRF230(-S)(-O)	ARF230(-S)(-O)		
Spring: TRF: 75 s ⁶⁾ LRF: 20 s ARF: 16 s							

Internal thread Rp (ISO 7/1), change over ball valve **ps (DN15..25) = 4140 kPa**
ps (DN32..50) = 2760 kPa

3-way



Range of use: closed circuits, open circuits (pH > 7)

	DN [mm]	kvs [m ³ /h]	Δp_s [kPa]		Δp_{max} [kPa]		Δp_s [kPa]		Δp_{max} [kPa]	
R315BL	15	4.5	1400	1000 ²⁾	1400	1000 ²⁾	1400	1000 ²⁾	1400	1000 ²⁾
R320BL	20	8.5								
R325BL	25	9			1400	1000 ²⁾				
R332BL	32	15					1400	1000 ²⁾		
R340BL	40	14								
R350BL	50	17					1400	1000 ²⁾		

2), 3) and 6) see page 3

		Running times			Control		ARF	SR	SR RobustLine	GR	DGR*					
Open / Close	AC/DC 24V	SR: 90 s	GR: 150 s	DGR: 150 s	1 wire				IP 66/67 							
		Motor: 150 s Spring: 16 s			1 wire		•	ARF24(-S)- 5-O								
	AC 230V	SR: 90 s	GR: 150 s	DGR: 150 s	1 wire			SR24A-5	SR24P-R	GR24A-5	GR24A-7	DGR24A-7				
		Motor: 150 s Spring: 16 s			1 wire		•	ARF230(-S)- 5(-O)								
Flange (ISO 7005) 2-way 							PN6 / 10 / 16 $T_{max} = +2^{\circ} \dots +90^{\circ}C$ $= -20^{\circ} \dots +70^{\circ}C$ (with glycol)					Range of use: closed circuits, open circuits (pH > 7)				
		DN [mm]	kvs [m ³ /h]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]					
D650		50	100	1200	1200											
D665		65	180	1200	1200											
D680		80	400	600	1200	1200										
D6100		100	650		200	1200										
D6125		125	1200						600	1200						
D6150		150	1600							600						
D6200		200	3000							200						

* Only parallel control possible

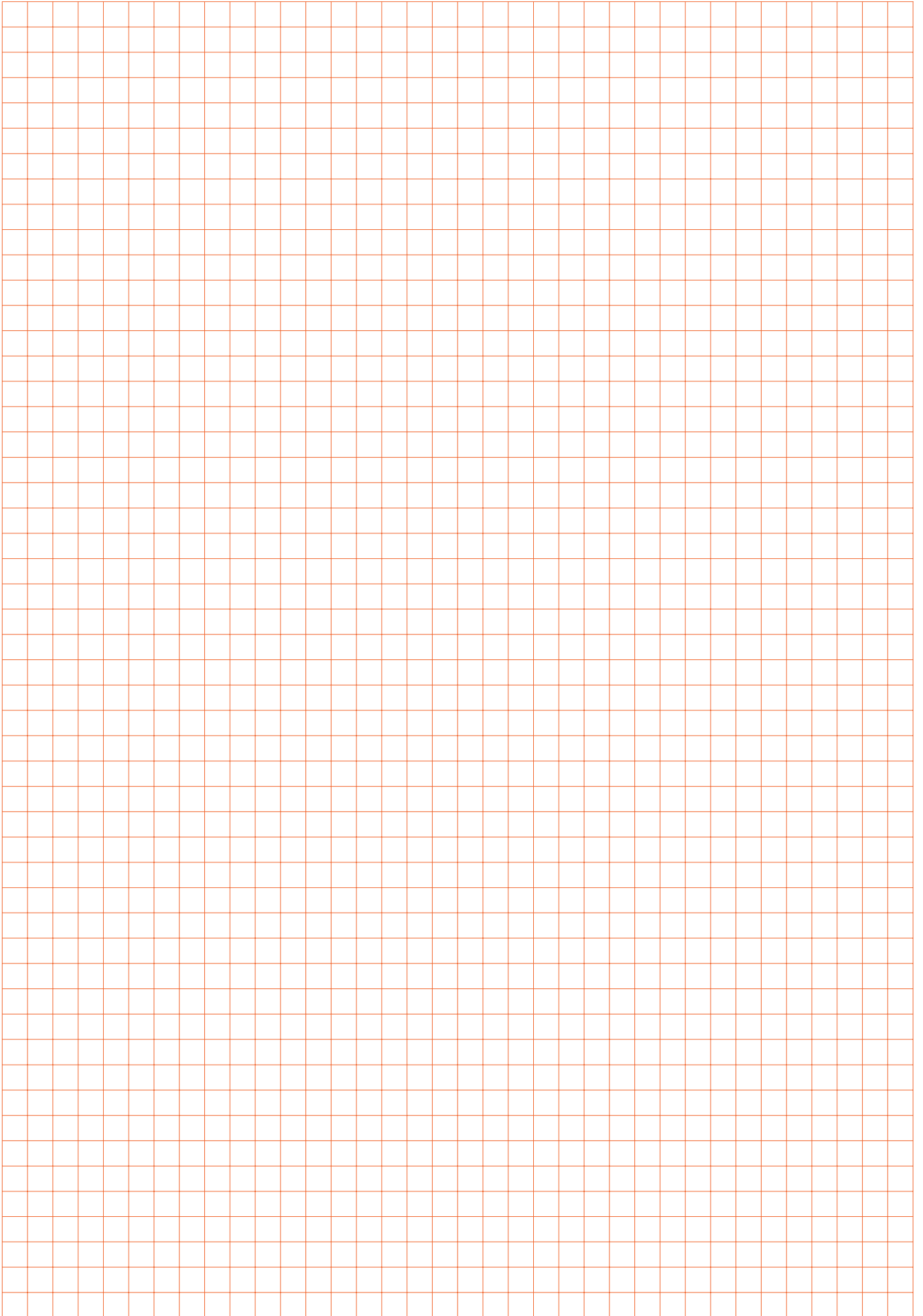
Accessories to SR / GR / DGR: Additional auxiliary switch S1A, S2A or feedback potentiometer P..A

Butterfly valves with fast running

		Running times					Control		SY1	SY2	SY3	SY4	SY5			
Open / Close	AC 24V	SY1	SY2	SY3	SY4	SY5	2 wires									
		15 s	15 s	22 s	16 s	22 s			SY1-24-3-T ⁵⁾	SY2-24-3-T ⁵⁾	SY3-24-3-T ⁵⁾	SY4-24-3-T ⁵⁾	SY5-24-3-T ⁵⁾			
Open / Close	AC 230V	SY1	SY2	SY3	SY4	SY5	2 wires									
		13 s	17 s	26 s	18 s	25 s			SY1-230-3-T ⁵⁾	SY2-230-3-T ⁵⁾	SY3-230-3-T ⁵⁾	SY4-230-3-T ⁵⁾	SY5-230-3-T ⁵⁾			
Flange (ISO 7005) 2-way 							PN6 / 10 / 16 $T_{max} = +2^{\circ} \dots +90^{\circ}C$ $= -20^{\circ} \dots +70^{\circ}C$ (with glycol)					Range of use: closed circuits, open circuits (pH > 7)				
		DN [mm]	kvs [m ³ /h]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]	Δp_s [kPa]					
D650		50	100	1200												
D665		65	180	1200												
D680		80	400	1200												
D6100		100	650	1200												
D6125		125	1200		1200											
D6150		150	1600		1200											
D6200		200	3000		200	1200										
D6250		250	4800						1200							
D6300		300	7200						600	1200						
D6350		350	10300							600						

5) see page 3

- 2 internal auxiliary switches
- Internal heating



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