

Shut-off valves

		Emergency control function					
		KR	TR / TRF / TRY	LR / LRQ / LRF	NR / NRQ / NRF	SR / SRF / SRQ	SR..P
		80°C	120°C ⁴⁾	120°C	120°C	120°C	120°C
Open-close	Running times	Control					
AC/DC 24 V	9 s	1-wire		LRQ24A	NRQ24A	SRQ24A	
	35 s	1-wire/2-wire	TRY24				
	75 s	1-wire/2-wire	KR24				
	90 s	1-wire/2-wire	TR24	LR24A(-S)	NR24A(-S)	SR24A(-S)	SR24P
	Ⓜ : 75 s / Ⓢ : 75 s	1-wire	TRF24(-S)(-O)				
	Ⓜ : <75 s / Ⓢ : <20 s	1-wire		LRF24(-S)(-O) ⁴⁾	NRF24A(-S2)(-O)	SRF24A(-S2)(-O)	
AC 230 V	35 s	1-wire/2-wire	TRY230				
	75 s	1-wire/2-wire	KR230				
	90 s	1-wire/2-wire		LR230A(-S)	NR230A(-S)	SR230A(-S)	SR230P
	Ⓜ : 75 s / Ⓢ : 75 s	1-wire	TRF230(-S)(-O)				
	Ⓜ : <75 s / Ⓢ : <20 s	1-wire		LRF230(-S)(-O) ⁴⁾	NRF230A(-S2)(-O)	SRF230A(-S2)(-O)	

External thread G (ISO 228/1)				p _s = 1600 kPa T _{max} = 100°C		Range of use Closed / open circuits (pH > 7)											
2-way		3-way		DN [mm]	Δp _s [kPa]		Δp _s [kPa]		Δp _s [kPa]		Δp _s [kPa]		Δp _s [kPa]		Δp _s [kPa]		
	k _{vs} [m ³ /h]		k _{vs} ¹⁾ [m ³ /h]		Δp _{max} [kPa]	Δp _{max} [kPa]	Δp _{max} [kPa]	Δp _{max} [kPa]	Δp _{max} [kPa]	Δp _{max} [kPa]	Δp _{max} [kPa]	Δp _{max} [kPa]	Δp _{max} [kPa]	Δp _{max} [kPa]	Δp _{max} [kPa]		
	R415 ³⁾	8.6	R515 ³⁾	8.6	15	1400	400 ²⁾	1400	400 ²⁾	1400	400 ²⁾	1400	400 ²⁾	1400	400 ²⁾	1400	400 ²⁾
	R420 ³⁾	21	R520 ³⁾	21	20	1400	400 ²⁾	1400	400 ²⁾								
	R425 ³⁾	26	R525 ³⁾	26	25					1400	400 ²⁾						
	R432 ³⁾	32	R532 ³⁾	32	32												
	R440	32	R540 ³⁾	32	40												
	R450	49	R550 ³⁾	49	50							1400	400 ²⁾	1400	400 ²⁾	1400	400 ²⁾

- 1) k_{vs} = A - AB, k_{vs} (B - AB) = 50% x k_{vs}
- 2) Low-noise operation Δp_{max} = 200 kPa
- 3) Medium temperature -10...+5°C with spindle heating
- 4) If medium temperature ≥100°C, then pipe and valve must be insulated
- 5) R3.., R7...: not suitable for open circuits
- 6) Valve can not be motorised with NRQ.. actuators