

Characterised control valves



Pressure-independent characterised control valves

| | | | | Emergency control function | KR | LR / LRQ / LRC LRF / NRFD | NR / NRQ / NRC NRF | SR / SRF / SRC |
|------------------------|-----------------------|----------------------|--------------------------------------|----------------------------|---------------------------|---------------------------------------|---------------------------|-------------------|
| | | | | | | | | |
| | | | | | 80°C | DN15/DN20: 100°C DN25...DN50: 80°C | | |
| | Running times | | (Control) Operating range | | | | | |
| Open-close, 3-point | AC/DC 24 V | 75 s | Open-close, 3-p | | KR24 | | | |
| | | 90 s | Open-close, 3-p | | | LR24A(-S) | NR24A(-S) | SR24A(-S) |
| | AC 230 V | 75 s | Open-close, 3-p | | KR230 | | | |
| | | 90 s | Open-close, 3-p | | | LR230A(-S) | NR230A(-S) | SR230A(-S) |
| | | Ⓜ : 35 s / Ⓢ : <20 s | Open-close, 3-p | Ⓢ | | NRFD230A-3(-S2)(-O) | | |
| Ⓜ : 90 s / Ⓢ : <20 s | Open-close, 3-p | Ⓢ | | | NRF230A-3(-S2)(-O) | | | |
| Modulating AC/DC 24 V | 9 s | DC (0) 0.5...10 V | | | | LRQ24A-SZ | NRQ24A-SZ | |
| | | DC (0) 2...10 V | | | | LRQ24A-SR | NRQ24A-SR | |
| | 35 s | DC (0) 2...10 V | | | LRC24A-SR | | SRC24A-SR | |
| | 45 s | DC (0) 2...10 V | | | | NRC24A-SR | | |
| | 75 s | DC (0) 2...10 V | | | KR24-SR | | | |
| | 90 s | DC (0) 2...10 V | | | | LR24A-SR | NR24A-SR | SR24A-SR |
| | Ⓜ : 90 s / Ⓢ : <20 s | DC (0) 0.5...10 V | Ⓢ | | | NRF24A-SZ(-S2)(-O) | SRF24A-SZ(-S2)(-O) | |
| | Ⓜ : 150 s / Ⓢ : <20 s | DC (0) 2...10 V | Ⓢ | | | LRF24-SR | | |

| Internal thread Rp (ISO 7/1) 2-way | $p_s = 1600 \text{ kPa}$ $T_{max} = 80^\circ\text{C} / 100^\circ\text{C}$ | | | 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] | Δp_s [kPa] | Δp_{max} [kPa] | Δp_s [kPa] | Δp_{max} [kPa] | Δp_s [kPa] | Δp_{max} [kPa] | Δp_s [kPa] | Δp_{max} [kPa] |
| R215P-010 / R215P-020 / R215P-040 | 15 | ½" | 0.1 / 0.2 / 0.4 | 700 | 350 | 700 | 350 | 700 | 350 | 700 | 350 | 700 | 350 | 700 | 350 |
| R220P-040 / R220P-060 | 20 | ¾" | 0.4 / 0.6 | | | | | | | | | | | | |
| R225P-070 / R225P-110 | 25 | 1" | 0.7 / 1.1 | | | 700 | 350 | | | | | | | | |
| R232P-120 / R232P-160 | 32 | 1 ¼" | 1.2 / 1.6 | | | | | | | | | | | | |
| R240P-180 / R240P-220 | 40 | 1 ½" | 1.8 / 2.2 | | | | | | | | | | | | |
| R250P-270 | 50 | 2" | 2.7 | | | | | 700 | 350 | 700 | 350 | | | | |
| R250P-550 | 50 | 2" | 5.5 | | | | | | | | | | | 700 | 350 |