

DIRECTIONAL CARTRIDGE CONTROL VALVE type 4 URED 6

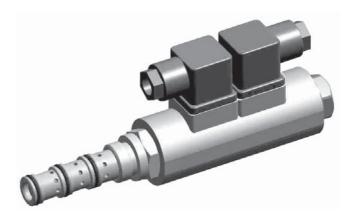
WK 496 680

Size 6 29 MPa 30 dm³/min.

04. 2001r.

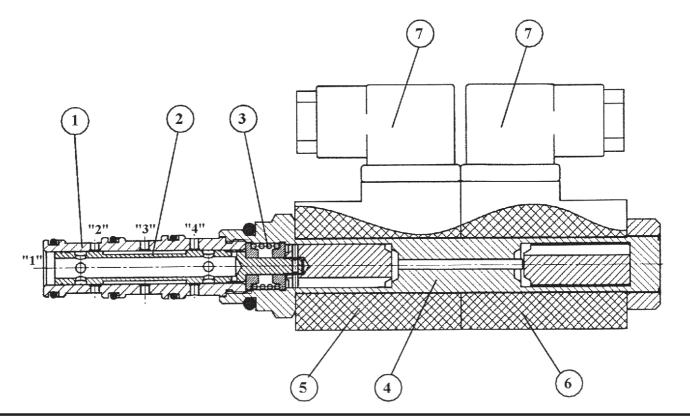
APPLICATION

Directional cartridge control valves type 4 URED 6 are solenoid operated directional control valves. They control direction of oil flow. The directional valves may be installed in hydraulic systems in any position.



DESCRIPTION OF OPERATION

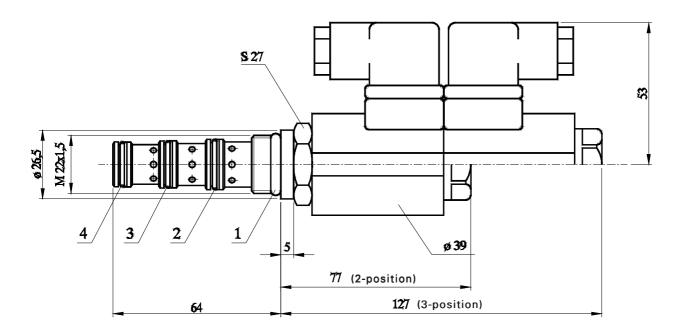
A plunger 2 moves inside the directional valve sleeve 1 with controlling edges. Depending on the position of the plunger, ducts "1", "2", "3" and "4" communicate with each other or are separated. Various flow control functions follow directly from the shape of the control plunger and sleeve. The plunger is moved when voltage is switched on to coil 5 or 6 via plug 7. The plunger is reversed by spring 3. The coil may be set at any angle in relation to sleeve 4. Two-way directional valves have only one coil (item 5), and three-way directional valves have two coils (items 5 and 6).



TECHNICAL DATE

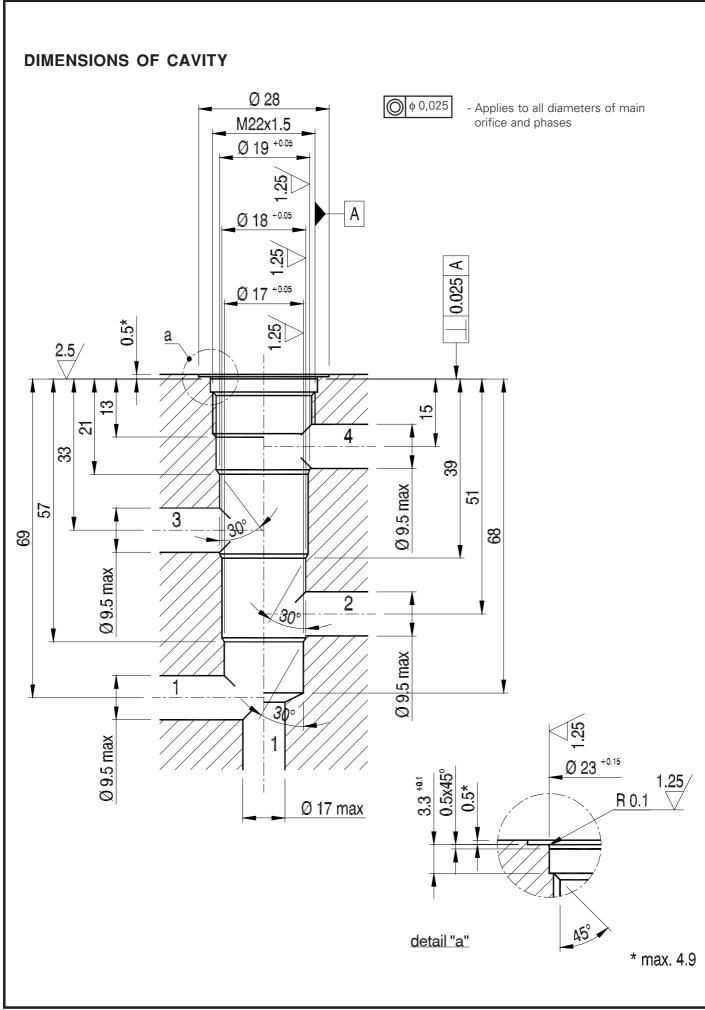
| Working fluid | Mineral oil |
|-----------------------------------|------------------------------------|
| Nominal fluid viscosity | 37 mm² / s at temperature 328 K |
| Viscosity range | 2,8 up to 380 mm ² / s |
| Optimum working temperature range | (313 up to 328 K) 40 up to 55 °C |
| Fluid temperature range | (243 up to 343 K) - 30 up to 70 °C |
| Required fluid filtration | 16 µm |
| Recommended fluid filtration | 10 μm |
| Max flow rate | 30 dm ³ / min |
| Max working pressure 1 | 21 MPa |
| Max working pressure 2; 3; 4 | 29 MPa |
| Power requirement | 26 W |
| Security degree | IP 65 |
| Weight - 2-position | 0,4 kg |
| Weight - 3-position | 0,7 kg |

OVERALL DIMENSIONS

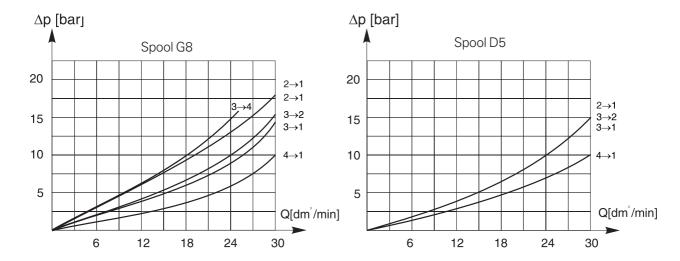


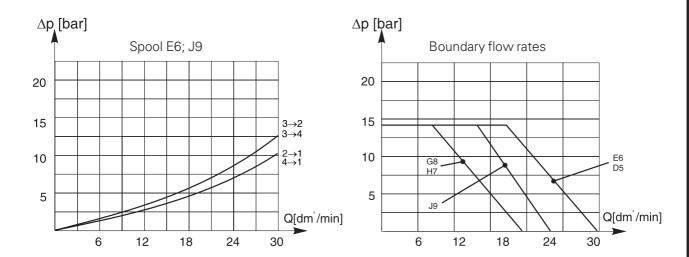
- Sealing ring 18 x 2,65
 Sealing ring 15,6 x 1,78
 Sealing ring 15 x 1,8
 Sealing ring 14 x 1,78

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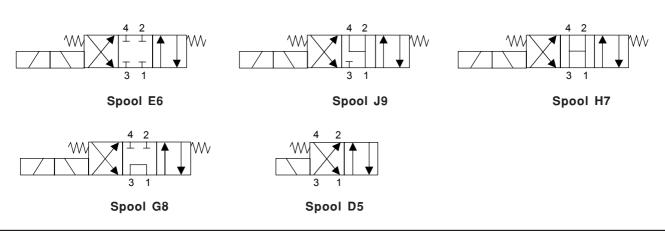


PERFORMANCE CURVES at v = 41 mm²/s and temp. 323 K

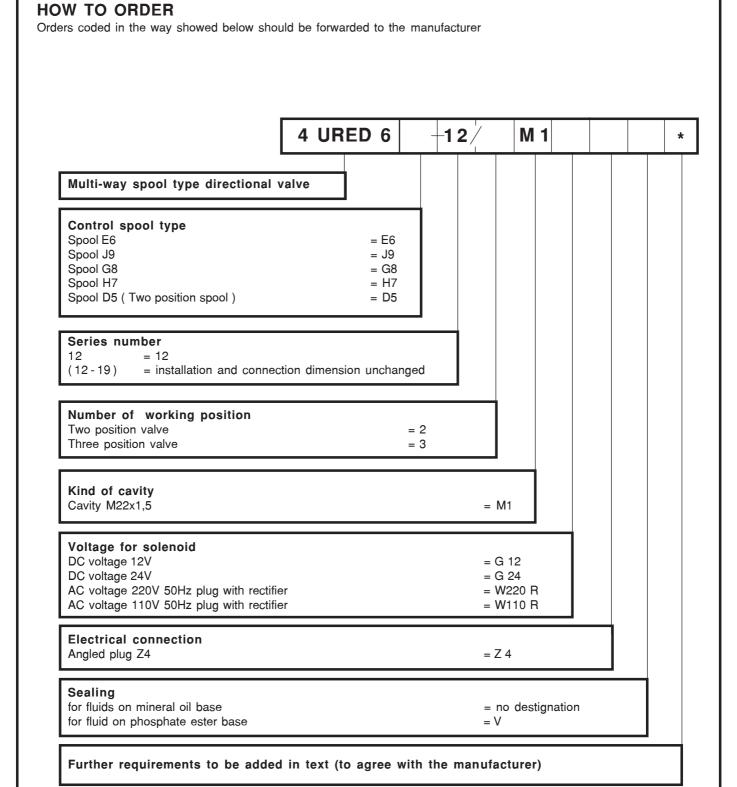




SYMBOL



WK 496 680 -4-



CODING EXAMPLE: 4 URED 6 D5 - 12/2 M1 G12 Z4

-5- WK 496 680

