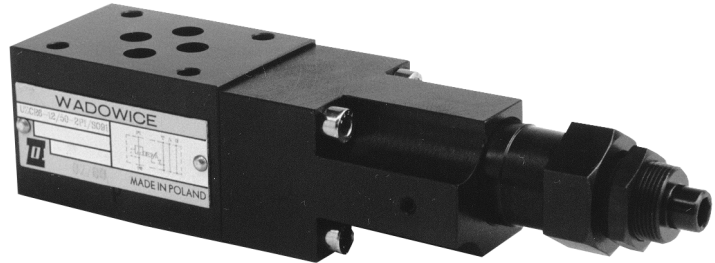
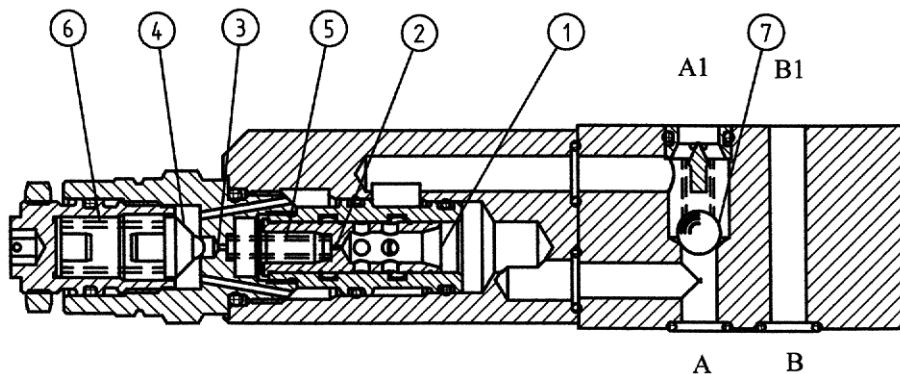


APPLICATION

UZCR 6 type reducing valve is used for reducing pressure in hydraulic systems



DESCRIPTION OF OPERATION

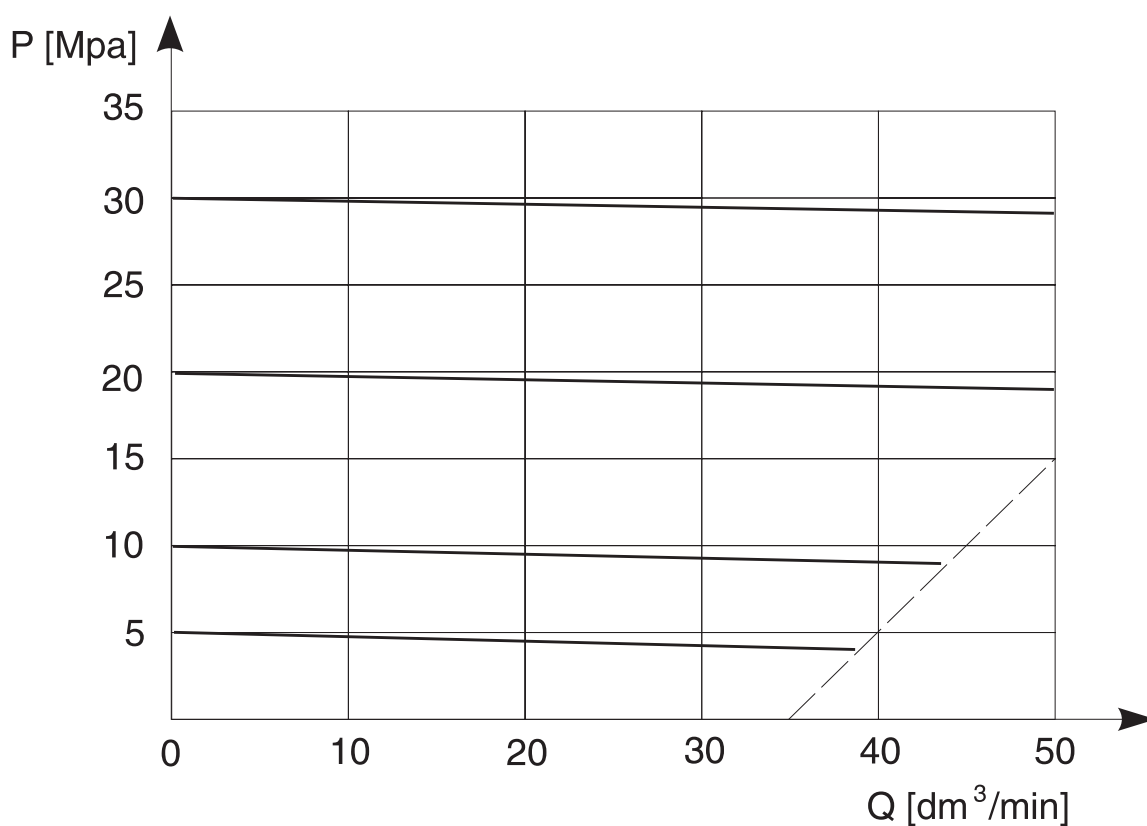


The valve consists of pilot valve and main valve. The reduced pressure acts on the lower face of main spool 1, and through nozzle 2 also on the upper face and through nozzle 3 on pilot valve poppet 4. In rest position the pressure on both sides of the main spool 1 is identical. Spring 5 maintains the spool in initial (open) position. Lines P and P1 (A1 to A, B1 to B) are interconnected. When the pressure attains the value determined by the tension of spool 6, the pilot valve 4 opens and oil flows through nozzle 2. A pressure drop is created across the nozzle, which acts on the upper and lower faces of spool 1 and moves it causing throttling of flow from P to P1 (A1 to A, B1 to B). When there is further increase of pressure, the flow is stopped completely, and further movement of spool 1 opens the T line overflow and restricts pressure rise. Unrestricted flow from A to A1 (B to B1) is effected through non-return valve 7 (design with non-return valve AZ; BZ).

TECHNICAL DATA

| | |
|---|---------------------------------------|
| Hydraulic fluid | Mineral oil or phosphate ester |
| Nominal viscosity | 37 mm ² / s at temp. 328 K |
| Viscosity range | up 2,8 to 380 mm ² / s |
| Optimum working temperature (fluid in a tank) | up 313 to 328 K |
| Temperature range | up 253 to 343 K |
| Maximum pressure at working | 29 MPa |
| Pressure range set | up 5; up 10; up 20; up to 29 { MPa } |
| Input pressure | up 29 MPa |
| Output pressure | 0,3 - 29 MPa |
| Maximum pressure set | 29 MPa |
| Maximum flow (dm ³ / min) | 50 dm ³ / min |
| Required oil filtration | up 16 μm |
| Recommended filtration | up 10 μm |
| Weight | ~1,7 kg |

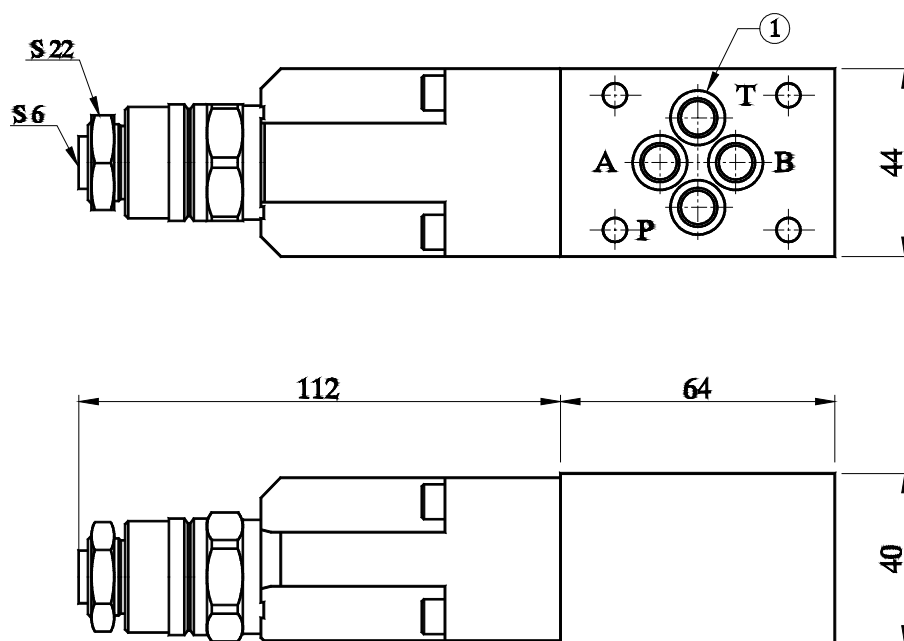
OPERATING CURVES, at $v = 41 \text{ mm}^2/\text{s}$, temp. = 323 K



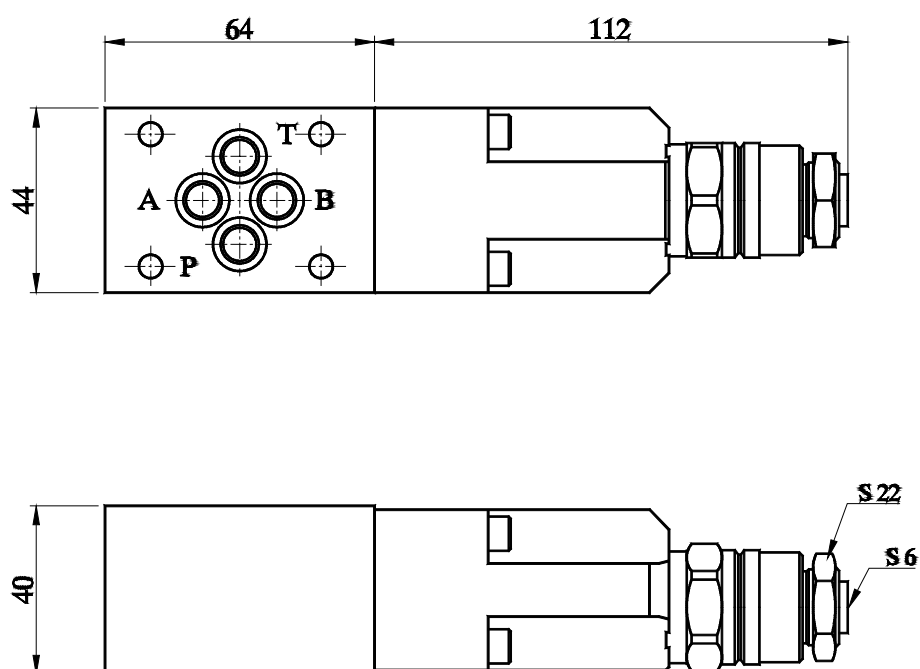
Pressure set in relation to flow.

OVERALL AND MOUNTING DIMENSIONS:

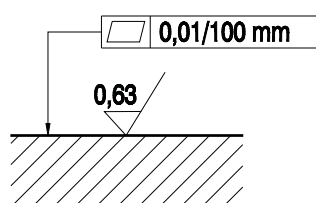
Version P; A; AZ



Version B; BZ

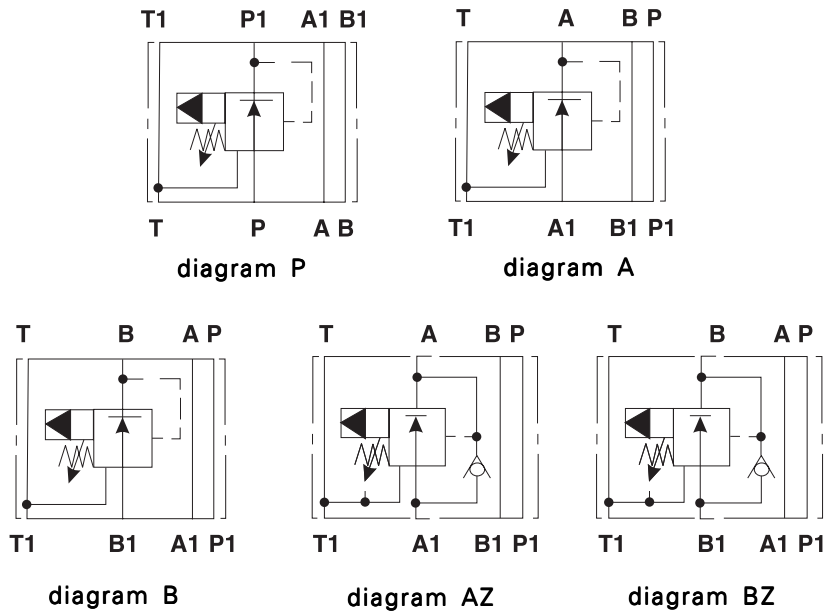


1 - O-ring 9.2 × 1.8 - 4 pcs



Admissible surface roughness and flatness deviation for a subplate.

HYDRAULIC DIAGRAMS:



HOW TO ORDER

Orders coded as below should be forwarded to the manufacturer.

| | | | | | |
|--------|---|---|---|--|---|
| UZCR 6 | / | - | 2 | | * |
|--------|---|---|---|--|---|

Series number
22 = 22
(22 - 29) - installation and connection diameters remain unchanged

Set pressure range
up to 5 MPa = 50
up to 10 MPa = 100
up to 20 MPa = 200
up to 29 MPa = 290

Adjustment
Internal hexagon bolt = 2

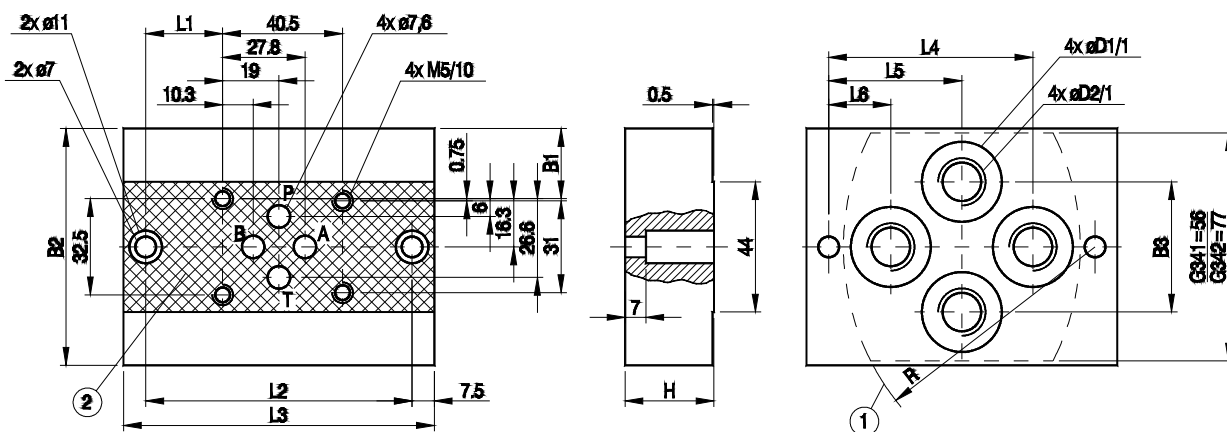
Connections to diagram
Reduction in line P = P
Reduction in line A = A
Reduction in line B = B
Reduction in line A + non-return valve = AZ
Reduction in line B + non-return valve = BZ

Sealing
Rubber = no code
Viton = V

Further requirements in clear text (to be agreed upon with the manufacturer)

Coding example:
UZCR6 - 22/ 200 - 2 AZ

CONNECTION DIMENSIONS FOR SUBPLATE



1 - Recess in subplate

| Type | B1 | B2 | B3 | L1 | L2 | L3 | L4 | L5 | L6 | H | D1 | D2 | R | T |
|---------|------|----|----|----|----|-----|----|----|----|----|----|---------|----|----|
| G341/01 | 12.7 | 58 | 34 | 21 | 80 | 95 | 55 | 40 | 25 | 25 | 22 | G 1/4 | 70 | 13 |
| G342/01 | 23.7 | 80 | 44 | 26 | 90 | 105 | 69 | 45 | 21 | 30 | 28 | G 3/8 | 85 | 13 |
| G341/02 | 12.7 | 58 | 34 | 21 | 80 | 95 | 55 | 40 | 25 | 25 | 22 | M14x1.5 | 70 | 15 |
| G342/02 | 23.7 | 80 | 44 | 26 | 90 | 105 | 69 | 45 | 21 | 30 | 27 | M16x1.5 | 85 | 15 |

Weight of subplate G 341 ... ~ 1 kg

Weight of subplate G 342 ... ~ 1.9 kg

Subplate must be ordered separately.

Fixing the valve to the subplate should be done by means of 4 bolts M5 x - 10.9 PN-74/M-82302 (DIN 912 - 10.9)

Tightening torque - 8,8 Nm.

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