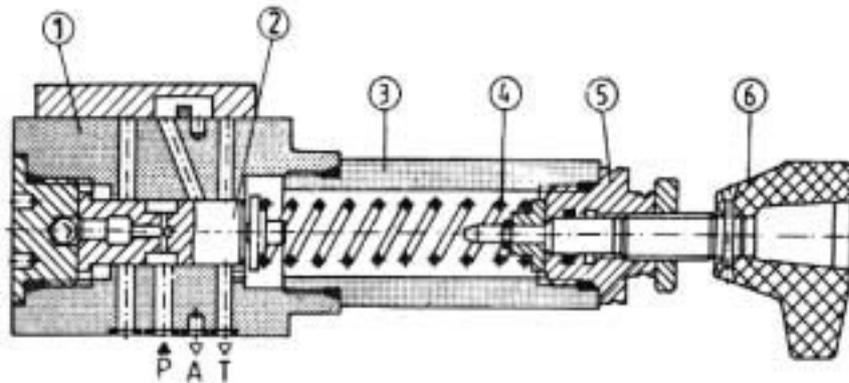


APPLICATION

Pressure reducing sandwich plate valve type UZRB10 hold pressure constant in a hydraulic system behind the valve provided that the pressure in front of it is higher. They can also be used when unexpected pressure increase behind the valve may appear. In the case an additional relief opens to limit secondary pressure.



DESCRIPTION OF OPERATION

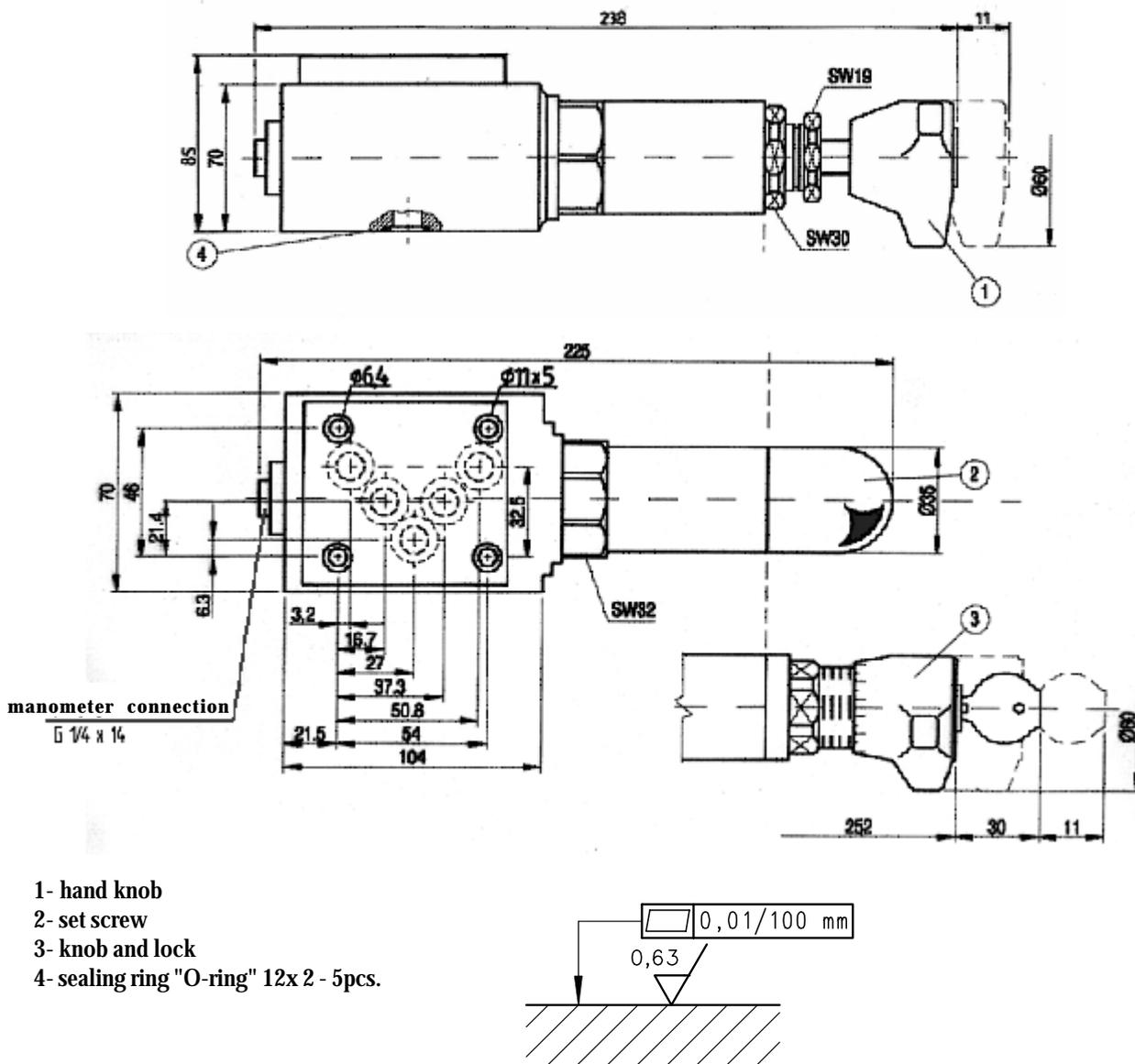


A spool 1 is in the housing 2. The valve spool is loaded by the secondary pressure from one side and the spring 4 from the other. The spring force is set by a knob 6 of the setting 3 tighten up to a sleeve 3. If pressure at the port A reaches the value set at the spring, the spool travels and reduces the flow from P to A. The flowing oil is thus throttled what effects in limiting the pressure behind the valve. In case of further increase of the pressure at the port A, the line P – A is cut off. The spool moves further against the spring and the port A is thus connected to T. Oil drains to a tank limiting excessive secondary pressure.

TECHNICAL DATA

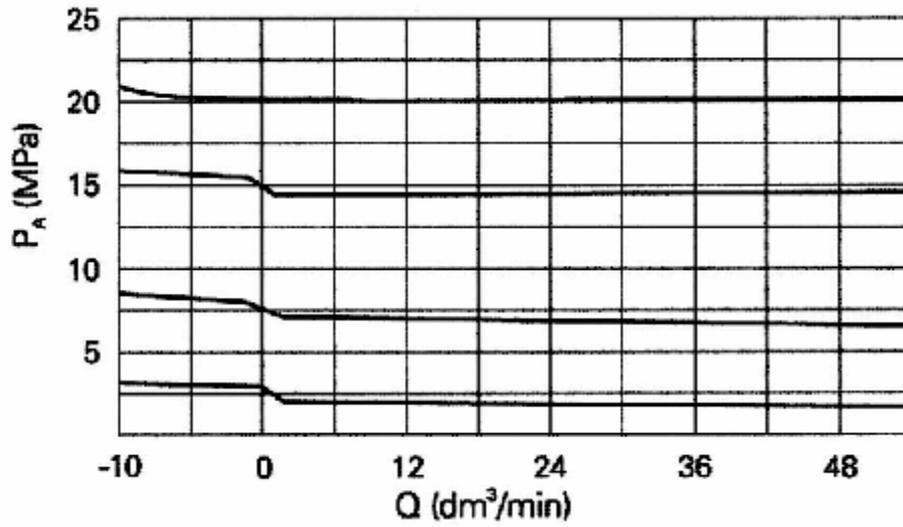
| | |
|---|--|
| Working fluid | Olej mineralny |
| Maximum pressure at line P | 31,5 MPa |
| Maximum pressure at line A (at T = 0 MPa) | 21 MPa |
| Maximum pressure at line T | 1,5 MPa |
| Nominal fluid viscosity | 37 mm ² /s w temperaturze 328 K |
| Viscosity range | 2,8 do 380 mm ² /s |
| Optimal working temperature | 313 do 328 K |
| Fluid temperature range | 243 do 343 |
| Required fluid filtration | 16 μm |
| Reccomended fluid filtration | 10 μm |
| Weight | 3 kg |

OVERALL DIMENSIONS

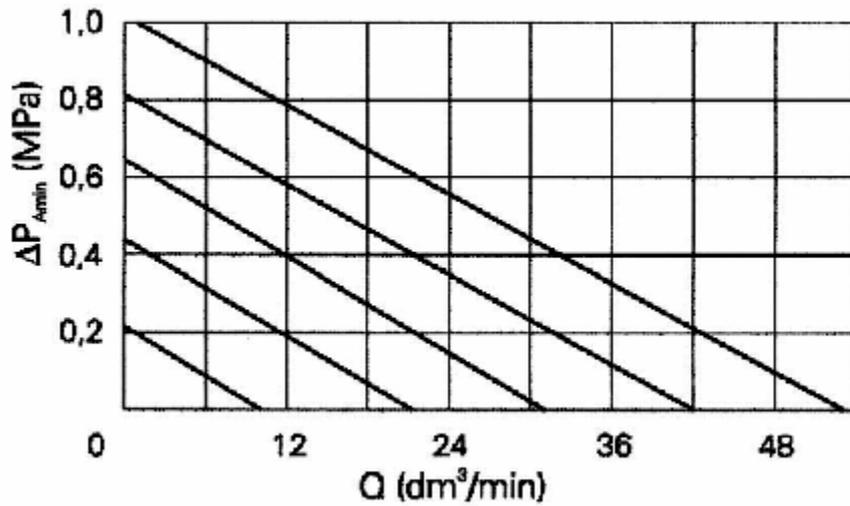


Required surface finish of a matching subplate.

Operating curves at $v = 41 \text{ mm}^2/\text{s}$ and a temp. 323 K

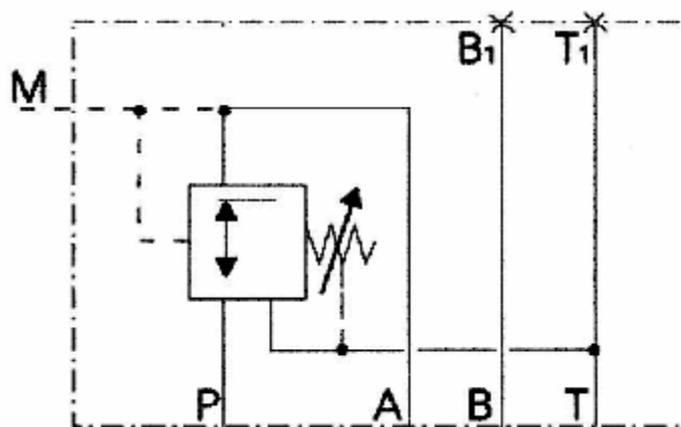


$P_A = f(Q)$ - output pressure in relation to flow rate



$\Delta P_{Amin} = f(Q)$ - effect of flow changes in line PA on output pressure

HYDRAULIC DIAGRAM



HOW TO ORDER

Orders coded in the way showed below should be forwarded to the manufacturer.

UZRB 10 — / — **Y** — — — *

Series number
 12 =12
 (20 - 29) - installation and connection
 dimension unchanged

Set pressure range
 Do 2,5 MPa = 25
 Do 7,5 MPa = 75
 Do 15 MPa = 150
 Do 21 MPa = 210

Pilot fluid supply and drain
 Internal pilot supply, external pilot drain vila line T = Y

Setting element
 Knob = 1
 Set screw = 2
 Lockable hand knob = 3

Manometer connection
 With manometer connection = M
 Without manometer connection = No destignation

Sealing
 oilproof = No destignation
 Viton = V

Further requirements to be added in text (to agree with manufacturer)

Coding example: UZRB 10-12 / 25 -Y -1

NOTATKI

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