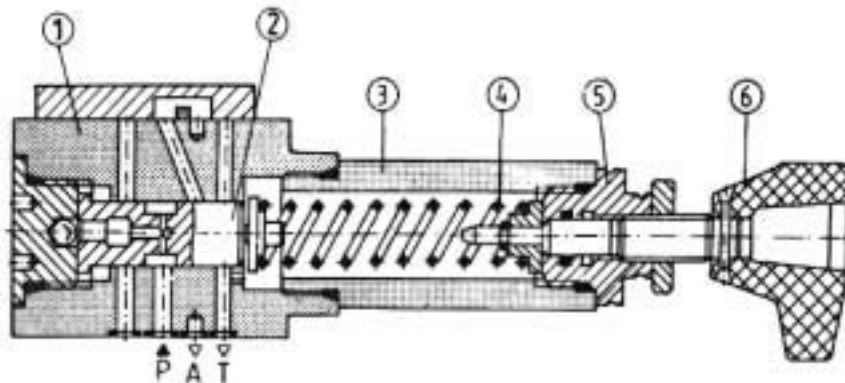


APPLICATION

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

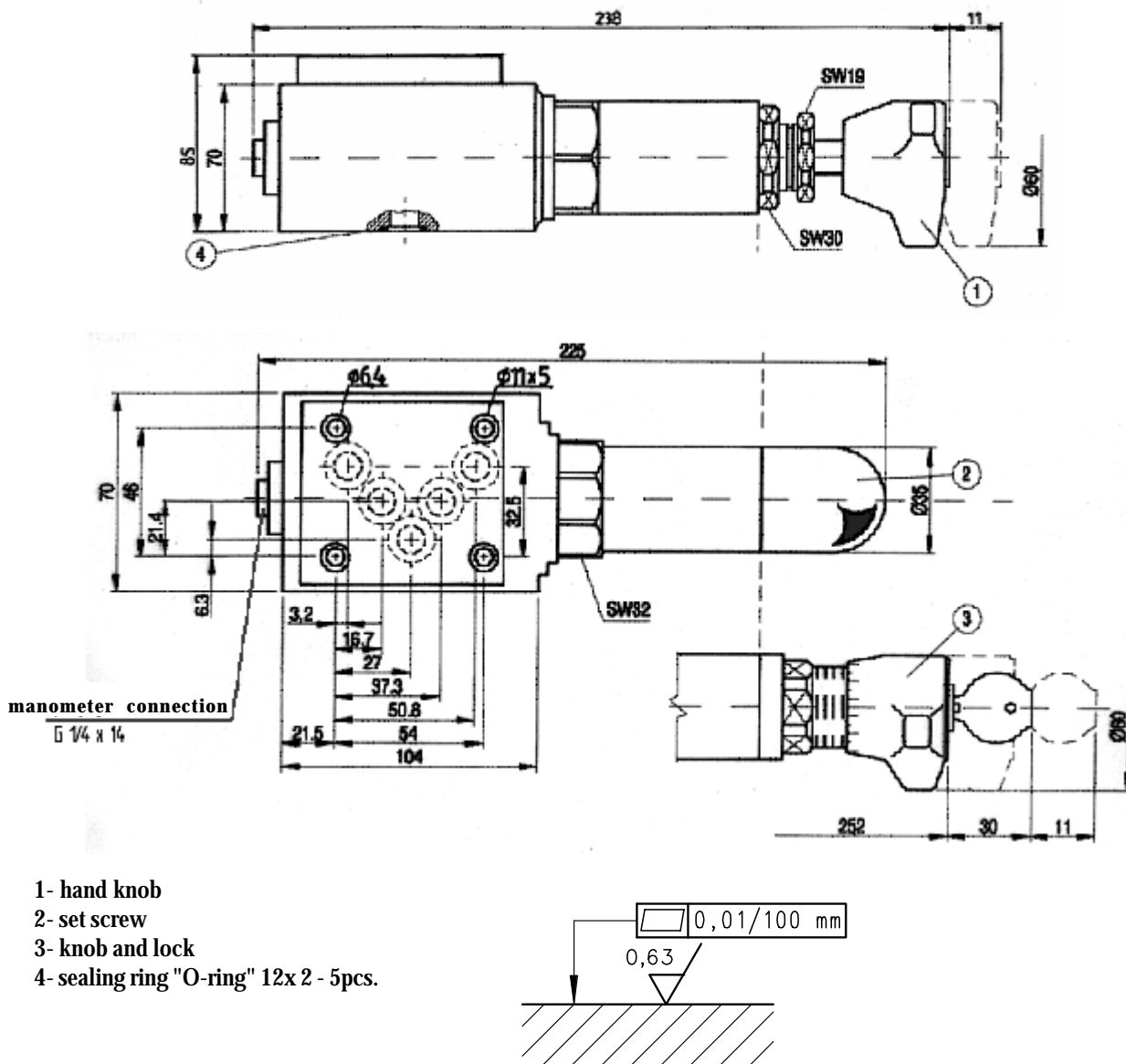


A spool 1 is in the housing 2. The valve spool is loaded by the secondary pressure from one side and the spring 4 from the other. The spring force is set by a knob 6 of the setting 3 tighten up to a sleeve 3. If pressure at the port A reaches the value set at the spring, the spool travels and reduces 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

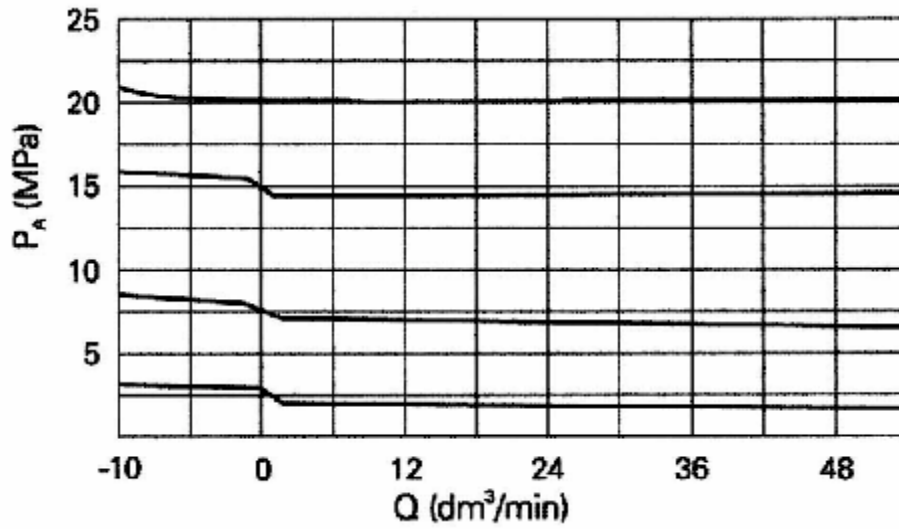
OVERALL DIMENSIONS



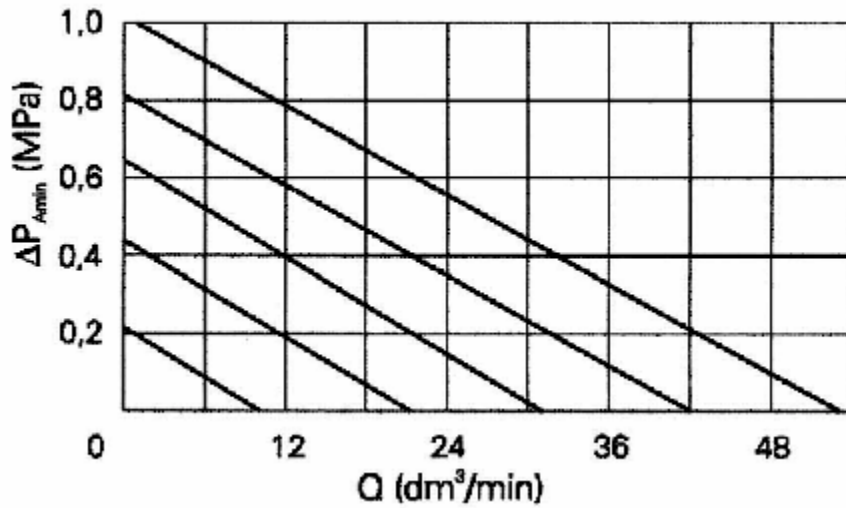
- 1- hand knob
- 2- set screw
- 3- knob and lock
- 4- sealing ring "O-ring" 12x 2 - 5pcs.

Required surface finish of a matching subplate.

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

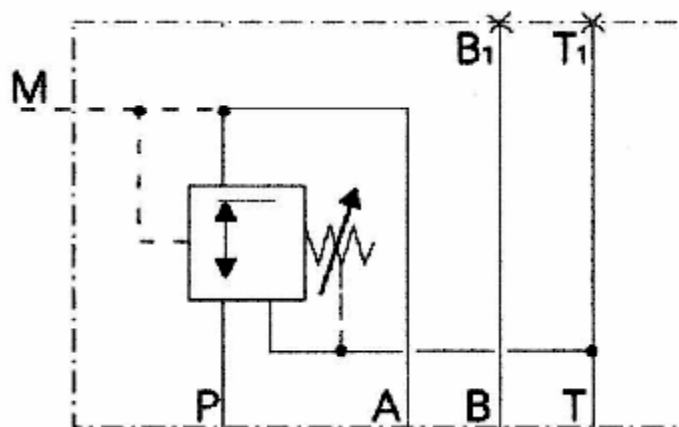


$P_A = f(Q)$ - output pressure in relation to flow rate



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

HYDRAULIC DIAGRAM



HOW TO ORDER

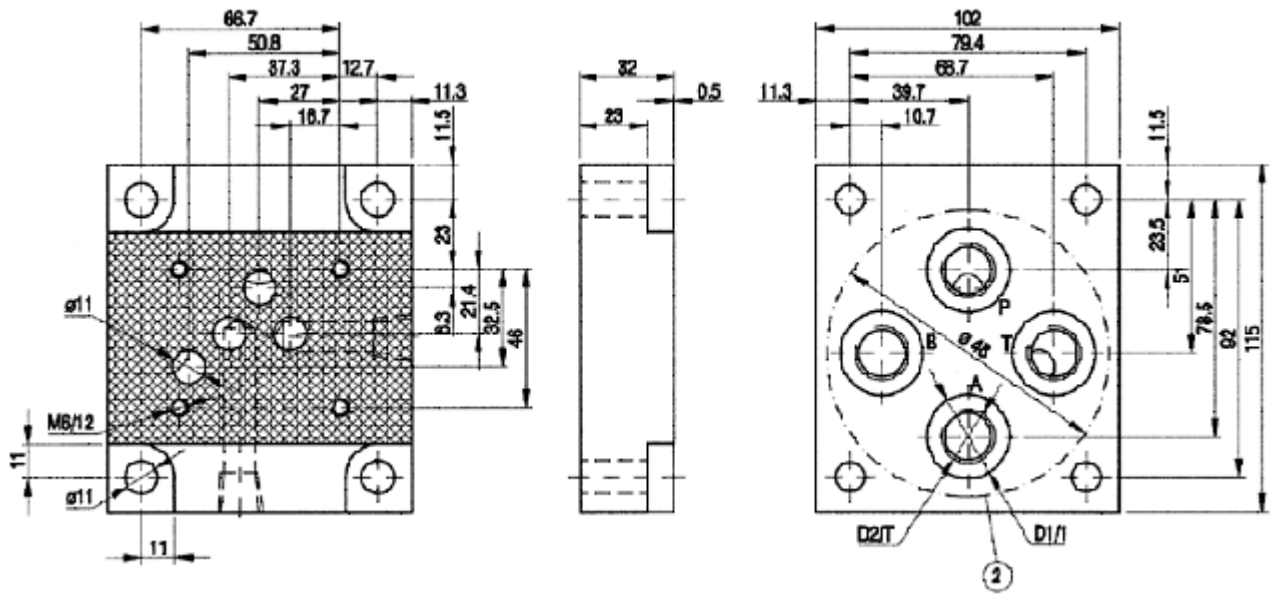
Orders coded in the way showed below should be forwarded to the manufacturer.

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

Copnnection dimensions for a subplate



Typ	D1	D2	T	Typ	D1	D2	T
G 89/01	25	G 1/4	12	G 89/02	24	M14 x 1,5	15
G 66 /01	28	G 3/8	12	G 66/02	28	M16 x 1,5	15
G 67/01	34	G 1/2	14	G 67/02	36	M22 x 1,5	17

Weight 2,3 kg

Mounting the valve to a subplate

is by 4 bolts M 6 x 90 - 10.9 PN-74/M-82302 (DIN 912-10.9).

Tightening torque Md = 47 Nm

The subplate and mounting bolts are not included with the valve.

NOTATKI

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