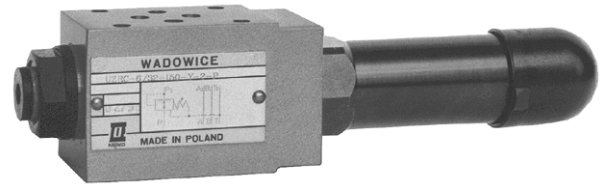
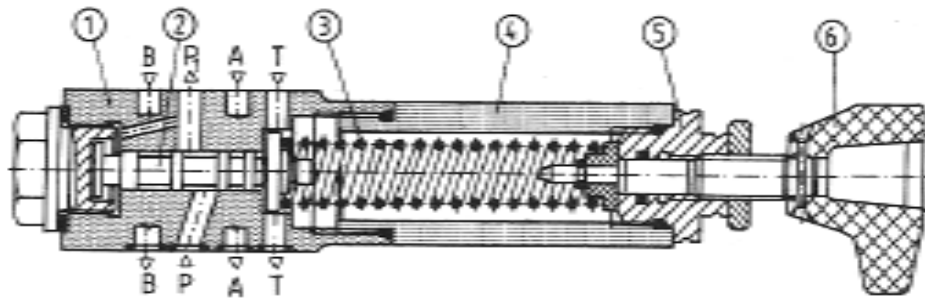


Pressure reducing valves type UZRC 6 are direct operated valves in sandwich plate design. They are used to maintain pressure behind the valve constant on condition that pressure in front of the valve is higher. The valve may also be applied where undesirable pressure increase behind the valve could appear. An additional overflow controlling an excessive pressure increase is then open.



### DESCRIPTION OF OPERATION



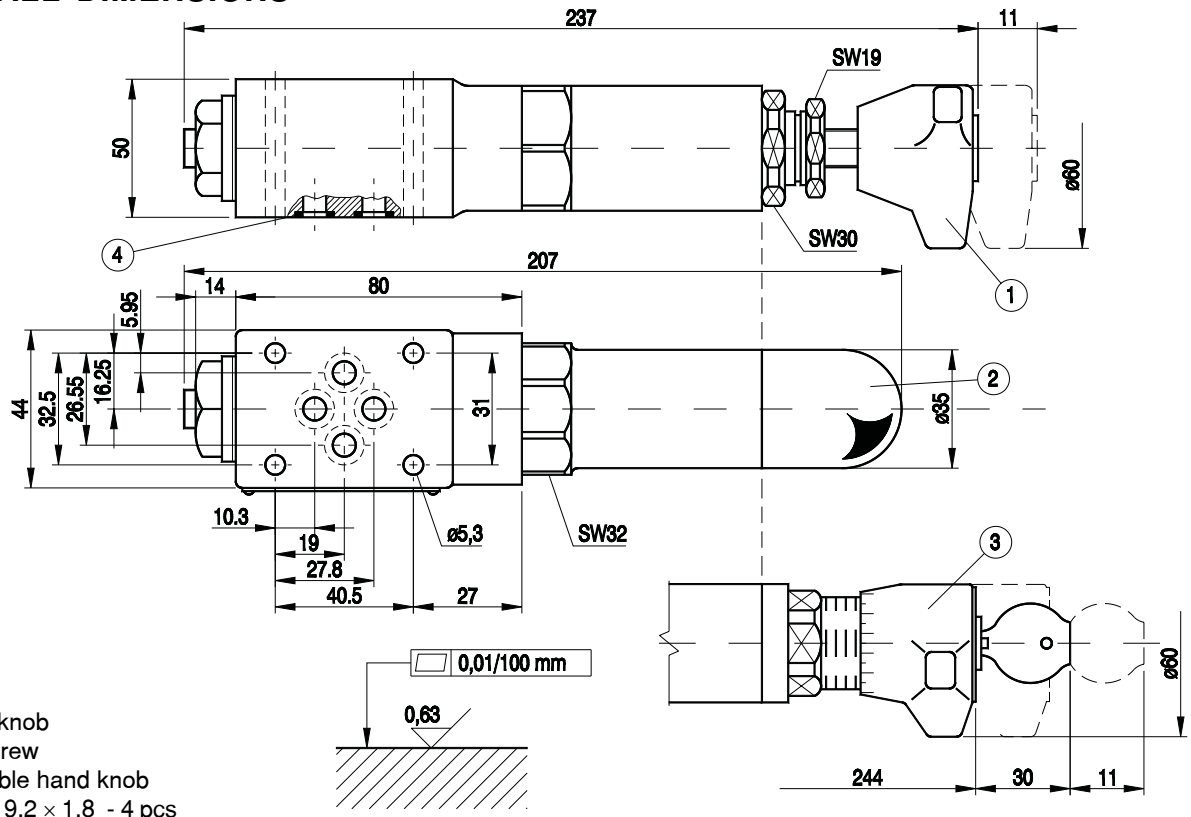
There is the spool 2 in the housing 1. The spool is affected by the reduced pressure on one side and the force of the spring 3 dependent on its deflection on the other. The spring force is set by turning the hand knob 6 of the setting element 5 screwed in the sleeve 4. If pressure exceeds the value set, the spool 2 moves and closes flow line P.

That will be followed by larger restriction of flowing fluid resulting in limiting the pressure behind the valve. If the pressure continues to rise, the connection P to P1 is cut off. The further movement of the spool causes the overflow from P1 to P to open.

### TECHNICAL DATA

Hydraulic fluid	Mineral oil or phosphate ester
Nominal fluid viscosity	37 mm <sup>2</sup> /s at the temperature of 328 K
Viscosity range	2.8 to 380 mm <sup>2</sup> /s
Optimum working temperature (fluid in a tank)	313 - 328 K
Fluid temperature range	243 - 343 K
Required fluid filtration	16 μm
Recommended fluid filtration	10 μm
Maximum pressure in ports A, B, P	31.5 MPa
Maximum pressure setting in port A or P ( while in port T = 0 MPa )	21 MPa
Maximum pressure in port T	1.5 MPa
Weight	~ 1.2 kg

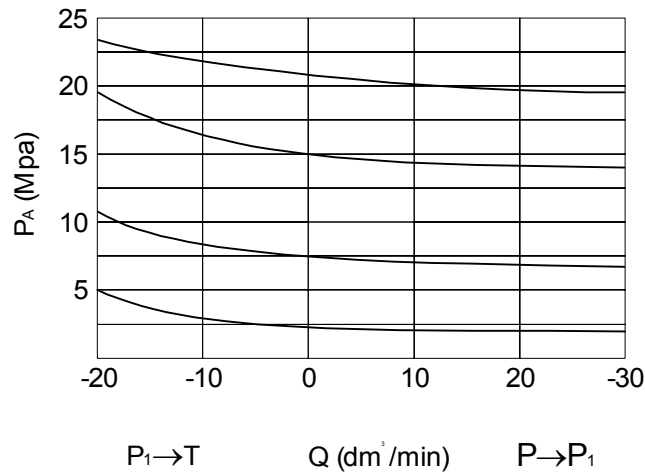
# OVERALL DIMENSIONS



- 1 - Hand knob
- 2 - Set screw
- 3 - Lockable hand knob
- 4 - O-ring 9.2 × 1.8 - 4 pcs

Admissible surface roughness and flatness deviation for a subplate face.

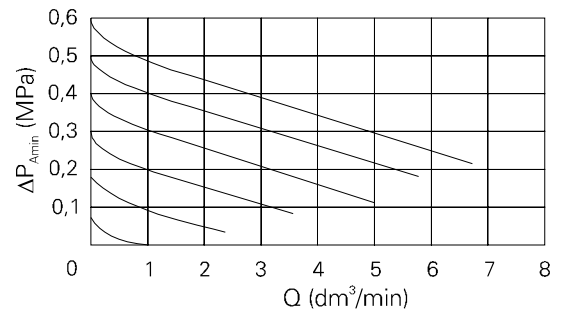
## PERFORMANCE CURVES, measured at $v = 41 \text{ mm}^2/\text{s}$ and $T = 323 \text{ K}$



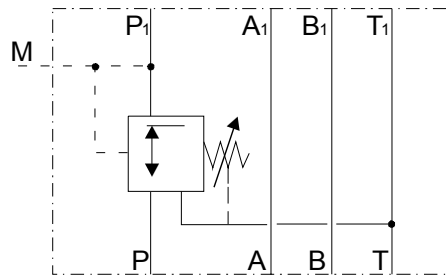
$P_A = f(Q)$  - output pressure in relation to flow rate

$\Delta P_{A \min} = f(Q)$  - effect of flow changes in line P - P<sub>1</sub> on output pressure P<sub>A</sub>.

If, for example pressure at port is set at 3 MPa with flow of 7 dm<sup>3</sup>/min, output pressure increases to P<sub>A</sub> = 3.4 MPa as flow decreases towards Q = 0 dm<sup>3</sup>/min.



## HYDRAULIC SCHEMES



UZRC 6/32 ...-Y-...-P-

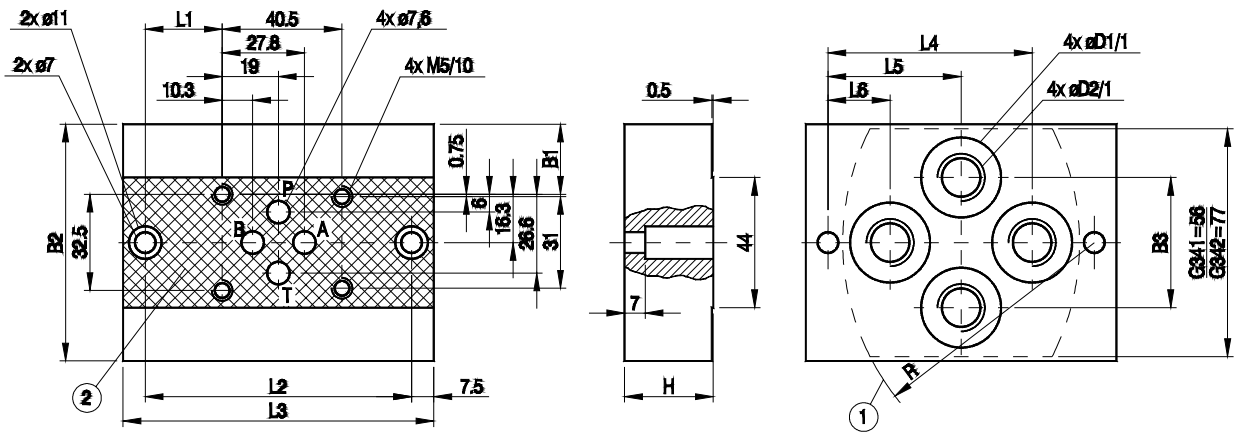
## HOW TO ORDER

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

UZRC6 /		-	-	Y	-	P	-	★
<b>Series number</b> (30-39) - installation and connection dimensions remain unchanged		= 32						
<b>Set pressure range</b>								
up to 2,5 MPa		= 25						
up to 7,5 MPa		= 75						
up to 15 MPa		= 150						
up to 21 MPa		= 210						
<b>Pilot fluid supply and drain</b>								
Internal supply, external drain T		= Y						
<b>Adjustment method</b>								
hand knob		= 1						
set screw		= 2						
lockable hand knob		= 3						
<b>Valve location</b>								
valve in line P		= P						
<b>Sealing</b>								
NBR (fluids on mineral oil base)		= no code						
FPM (fluids on phosphate-ester base)		= V						
Further requirements in clear text (to be agreed upon with the manufacturer)								

Coding example: UZRC 6/32 - 25 -Y -1 - P

## 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 type G 341 ... ~ 1 kg

Weight of subplate type G 342 ... ~ 1.9 kg

Fixing the valve to the subplate by means of 4 bolts M5 x ...  
- 10.9 PN-74/M-82302 ( DIN 912 - 10.9 ) long according to  
the number of mounted components.

Tightening torque - 8.8 Nm.

Subplate and fixing bolts have to be ordered separately.

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