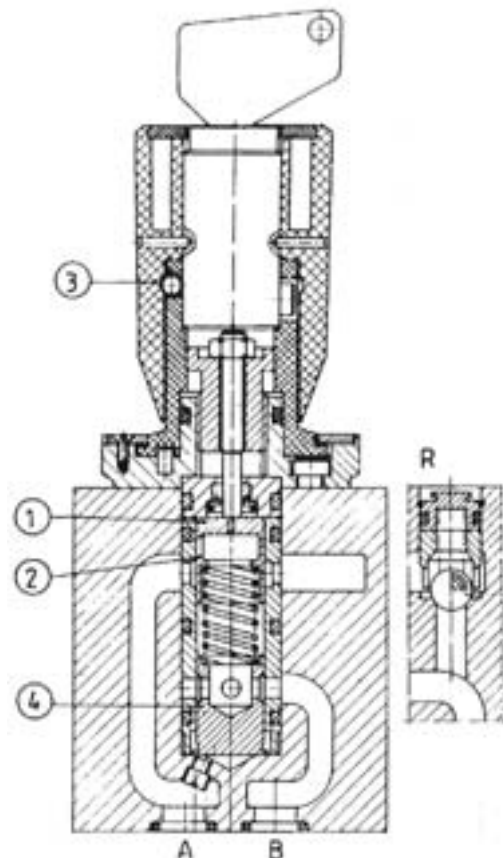


2-way flow regulator type UDRD6 serves to control fluid flow in one direction and allows free flow in the opposite direction (in version with check valve).
The regulator is fixed to the subplate by means of 4 bolts (they are not included with the valve).
Mating surfaces (between the valve and the subplate) are sealed with O-rings which are included.
The regulator may be mounted into a circuit in any position.



DESCRIPTION OF OPERATION

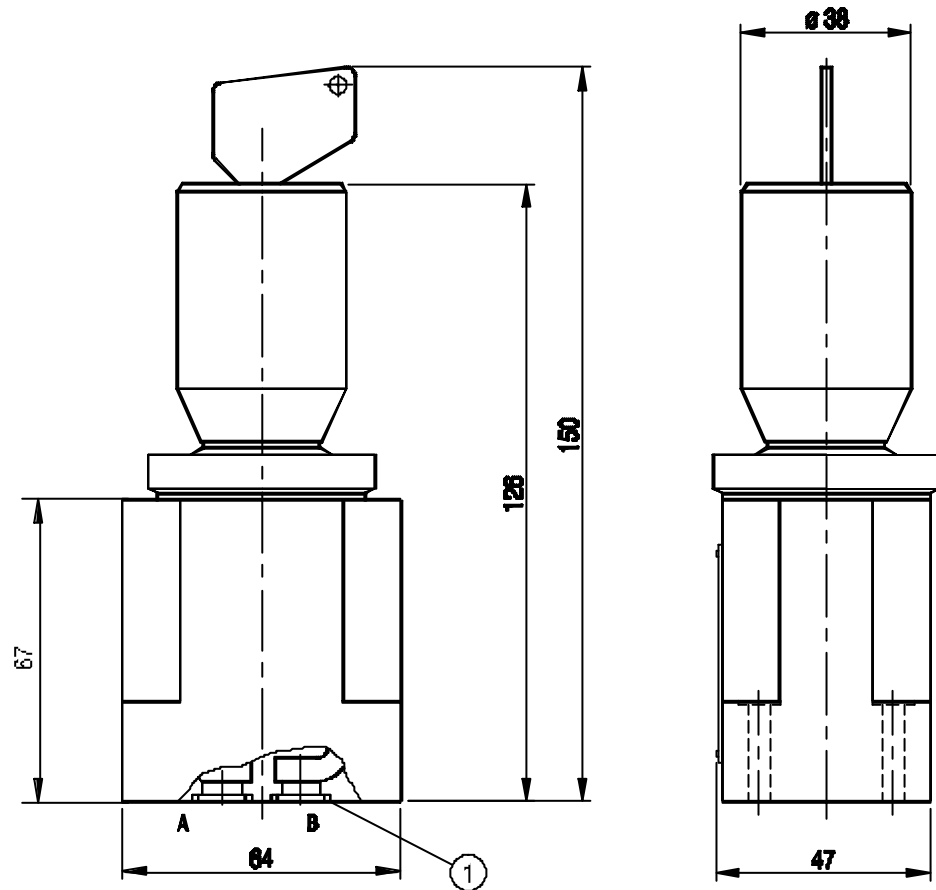
To set fluid flow, oil should be pressurized to line A. The oil is throttled by the restrictor (1) at the throttling gap (2).
Turning the hand knob clockwise in the range of 10 scale division causes the restrictor (1) to move down and the gap to broaden.
The pressure compensator (4) holds the fluid flow independent of pressure. In order to allow free flow from B to A, a check valve is united (in version with check valve).



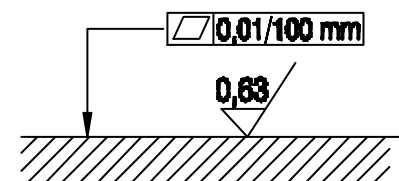
TECHNICAL DATA

Hydraulic fluid	Mineral oil
Nominal fluid viscosity	37 mm ² /s at temp. 328 K
Viscosity range	2, 8 to 380 mm ² /s
Optimum working temperature (fluid in a tank)	313 ÷ 328 K
Fluid temperature range	243 ÷ 343 K
Maximum working pressure	31,5 MPa
Recquired filtration	16 µm
Tolerance of fluid control for constant pressure and temp.	± 5%
Least pressure difference before and behind the regulator	1,5 MPa
Flow stability at pressure change	± 5%
Weight	1,4 kg

OVERALL DIMENSIONS

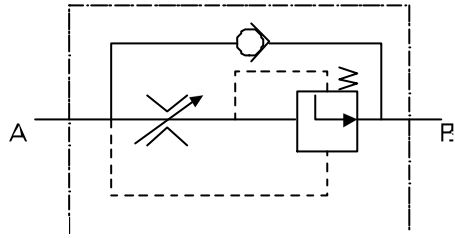


1 - Sealing O-ring 9,2 x 1,8 pcs. 2

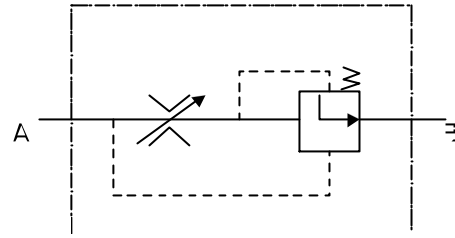


Required surface finish for subplate face

HYDRAULIC DIAGRAM

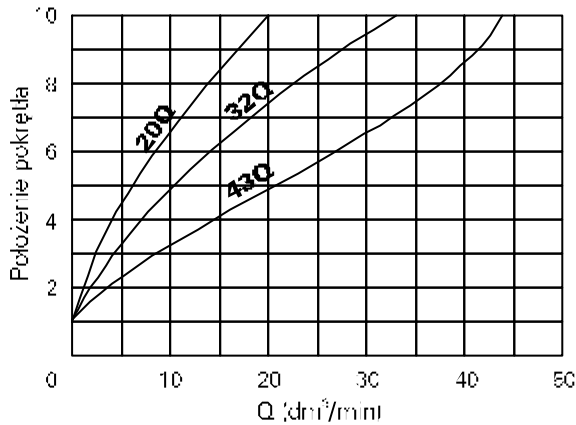


Version R

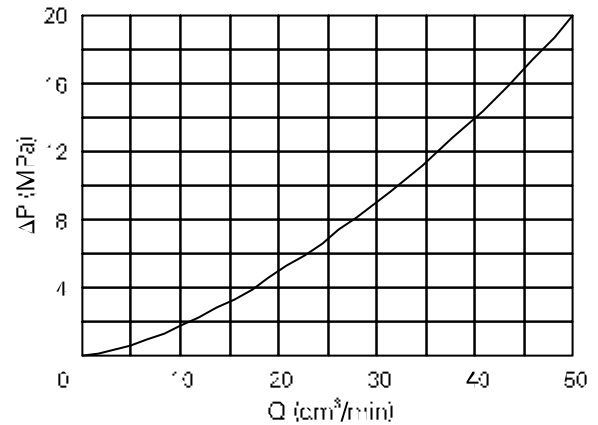


Version M

OPERATING CURVES for $v = 41 \text{ mm}^2/\text{s}$ and $T = 323 \text{ K}$



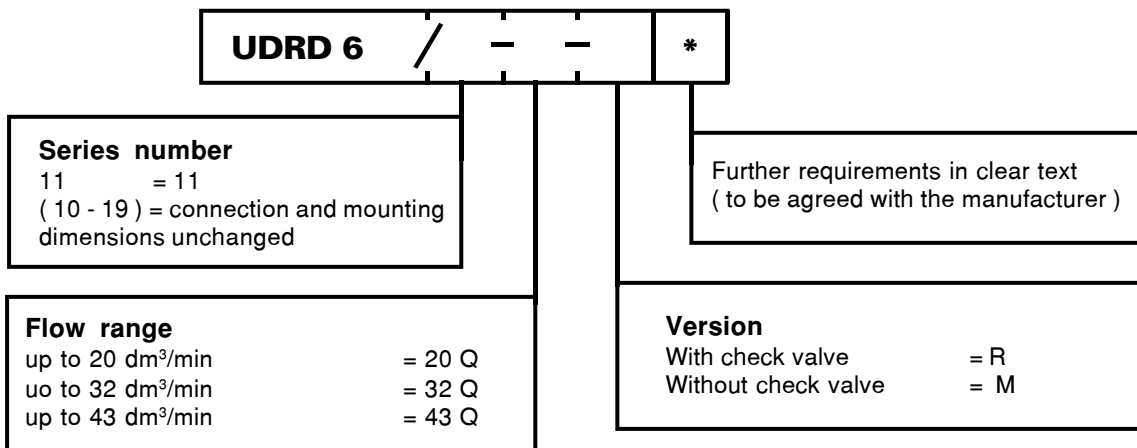
Flux rate in relation to setting for different versions of the regulator (direction A - B)



Flow resistance at check valve (direction B - A)

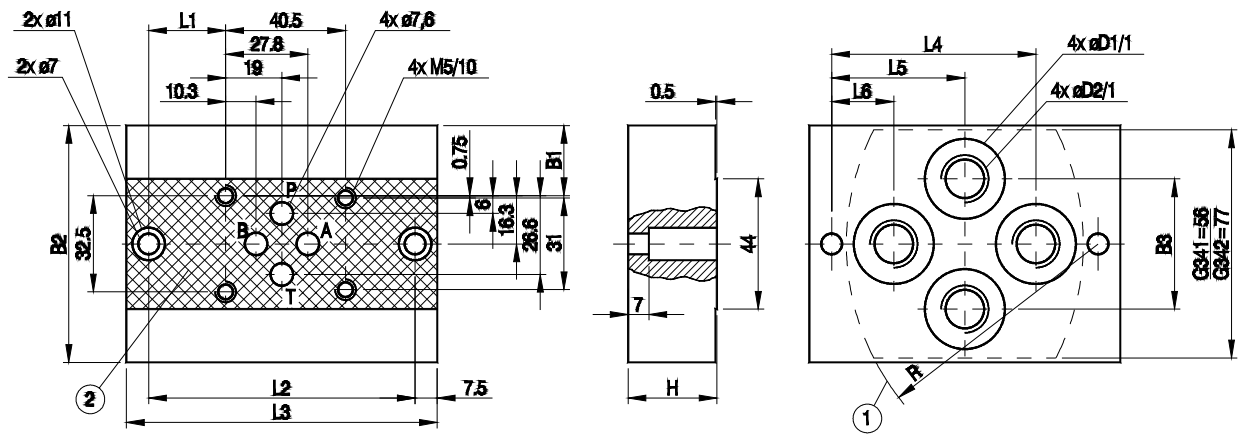
HOW TO ORDER

Orders coded as below should be forwarded to the manufacturer.



Example : UDRD 6/ 11-20QR

CONNECTION DIMENSIONS



Subplate weight ~0,8 kg.

item 1 - recess in a subplate face
 item 2 - subplate surface

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	G1/4	70	13
G341/01	23,7	80	44	26	90	105	69	45	21	30	28	G3/8	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	16

Mounting the valve to the subplate by means of M5 x 30-10.9 to PN-74/M-82302 (DIN 912)- 4 pcs .
 Tightening torque 9 Nm.
 Subplates and fixing bolts have to be ordered separately.

PONAR WADOWICE S.A.
 ul. Wojska Polskiego 29
 34-100 Wadowice
 tel. 033/ 823 39 43, 823 30 41
 fax 033/ 873 48 80
 e-mail: ponar@ponar-wadowice.pl

