

2-way flow regulator type UDRD 6

WK 490 010

Size 6

31,5 MPa

up to 43 dm³/min

04.1999r.

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.

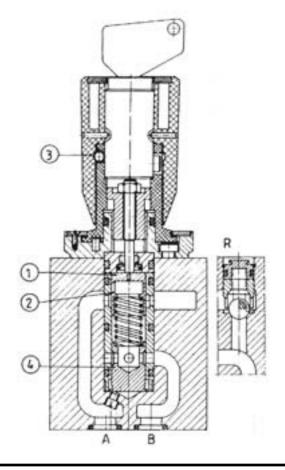
The regulator may be mounted into a circuit in any posi-



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

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).

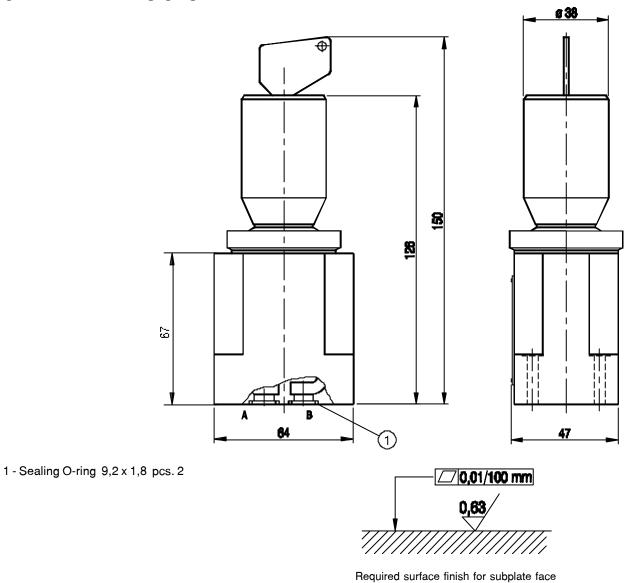


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TECHNICAL DATA

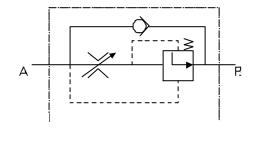
Hydraulic fluid	Mineral oil
Nominal fluid viscosity	37 mm²/s at temp. 328 K
Viscosity range	2, 8 to 380 mm ² /s
Optimum working temperature (fluid in a tank)	313 ÷ 328 K
Fluid temperature range	243 ÷ 343 K
Maximum working pressure	31,5 MPa
Recquired filtration	16 μm
Tolerance of fluid control for constant 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

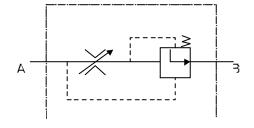
OVERALL DIMENSIONS



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HYDRAULIC DIAGRAM

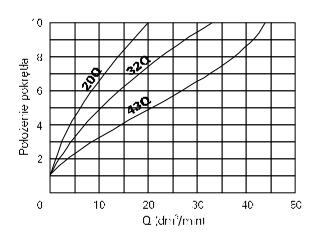


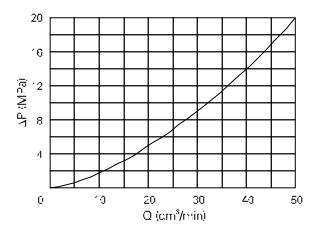


Version R

Version M

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



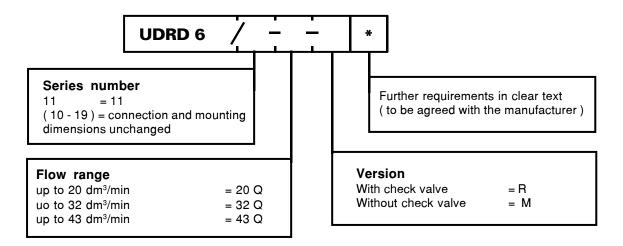


Fluw rate in relation to setting for different versions of the regulator (direction A - B)

Flow resistance at check valve (direction B-A)

HOW TO ORDER

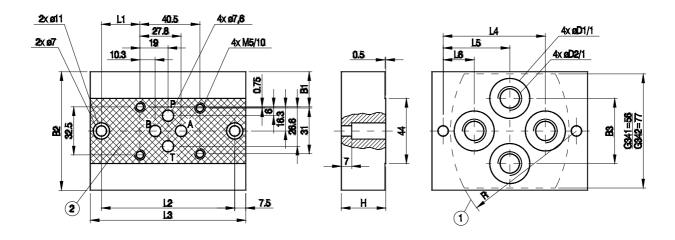
Orders coded as below should be forwarded to the manufacturer.



Example: UDRD 6/11-20QR

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CONNECTION DIMENSIONS



Subplate weight ~0,8 kg.

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

Туре	B1	B2	В3	L1	L2	L3	L4	L5	L6	Н	D1	D2	R	Т
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.



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