

Three-way flow controller type UDUN 6

WK 496 590

Size 6 29 MPa 45 dm³/min

04. 2000r.

APPLICATION

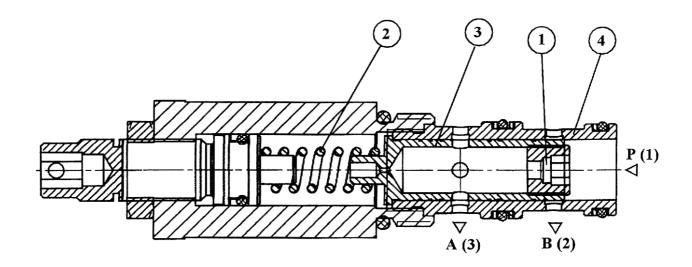
Three-way controllers are used when constant flow rate must be maintained, irrespective of supply flow rate variations (at the pump).



DESCRIPTION OF OPERATION

Three-way controllers consist of two main valves: throttle valve and differential valve. Unlike two-way controllers, three-way controllers are arranged in a parallel connection. The stream flowing in is divided into an acting stream and a residual stream, the latter being discharged to tank through slit in the differential valve.

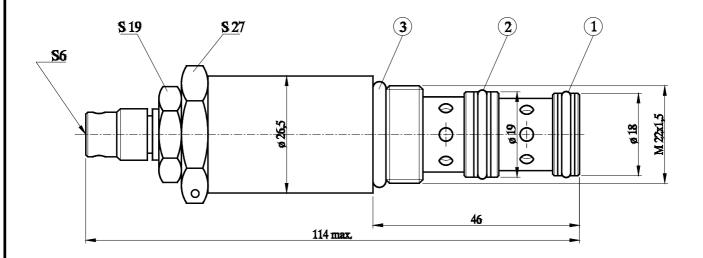
The stream flows into duct P (1). The flow of acting stream through nozzle 1 is caused by pressure difference set with spring 2. Pressure (flow rate) drop across the supply side (duct P(1)) or downstream side (duct A(3)) shifts plunger 3 in sleeve 4 to a new equilibrium position. In this position plunger 3 of differential valve diverts excess oil to tank through duct B(2) while maintaining constant flow A(3).



TECHNICAL DATA

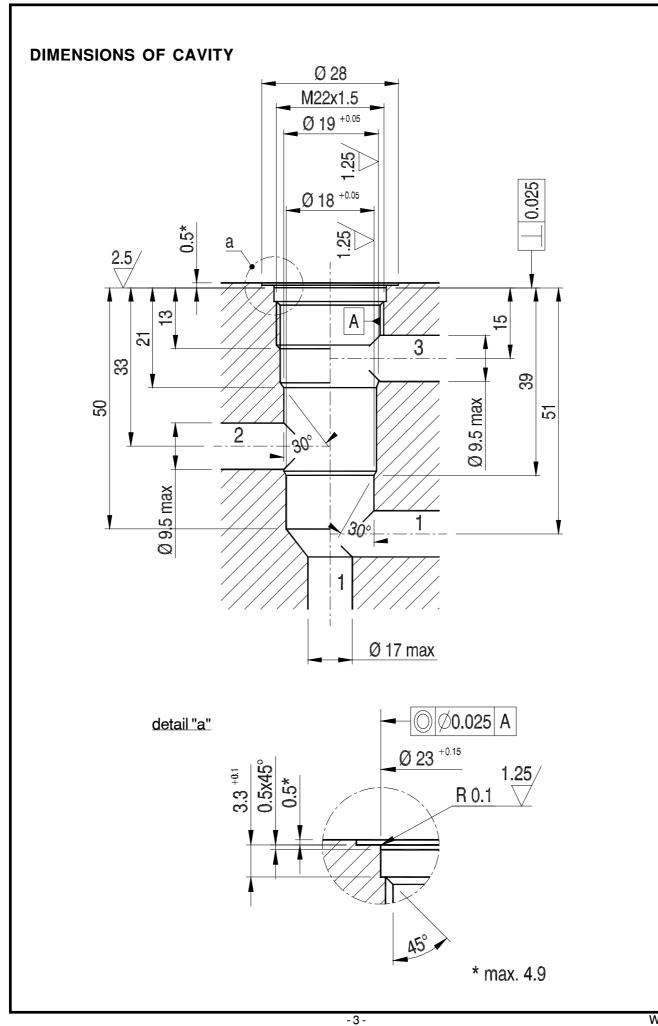
Working fluid	Mineral oil
Nominal fluid viscosity	37 mm² / s at temperature 328 K
Viscosity range	2,8 up to 380 mm² / s
Optimum working temperature range	313 up to 328 K
Fluid temperature range	243 up to 343 K
Max pressure	29 MPa
Nominal pressure	29 MPa
Max regulatet fluid flow	32 dm³/min
Min regulatet fluid flow	5,5 dm³/min
Required fluid filtration	16 μm
Recommended fluid filtration	10 μm
Weight	0,25 kg

OVERALL DIMENSIONS

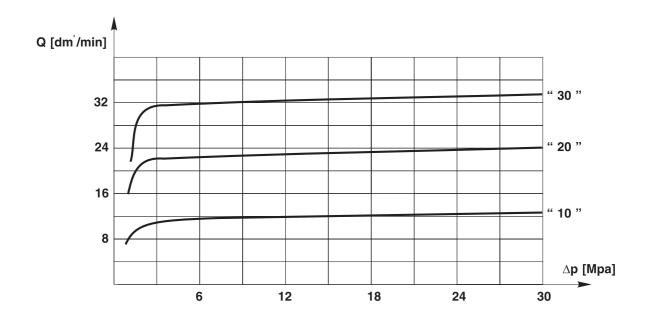


pos.1 O-ring 15,6 x 1,8 pos.2 O-ring 18 x 2,65 pos.3 O-ring 15 x 1,8

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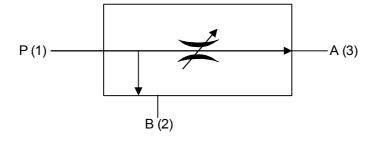


PERFORMANCE CURVES at v = 41 mm²/s and temp. 323 K



Regulated flow performec curves

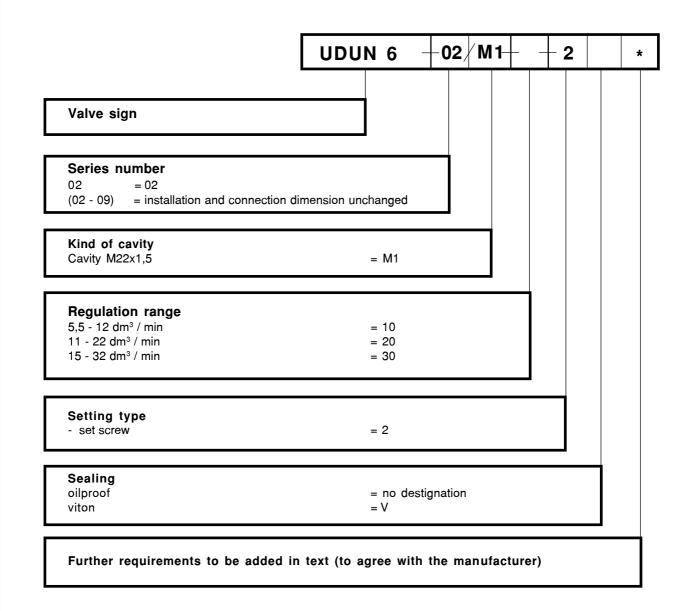
GRAPHICAL SYMBOL



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



CODING EXAMPLE: UDUN6-02/M1-20-2

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