FLOW CONTROL VALVE TVD

• NG 6

Operation

- Up to 350 Bar [5076 PSI]
- Up to 16 l/min [4,23 GPM]
- Two way pressure compensated.
- Connecting dimensions to ISO 6264.
- Operating elements: rotary knob / roller.

3

6

- With built in non-return valve.
- · Without built in non-return valve.





Hydraulic symbol

Flow control valves type TVD are used to set the flow of the hydraulic fluid. The flow depends neither on inlet nor on outlet pressures, which means that the flow setpoint valve remains constant also with a change of the pressure drop.

These valves consist of a housing (1), a pressure compensator (2), an orifice (3), a setting element (4), and a non-return valve (5).

The hydraulic fluid flow is adjusted by a setting element (4) which moves the orifice (3) to the corresponding open position. The flow of the fluid is throttled in the direction from A to B. Maintaining of the constant flow towards the user is provided by the pressure compensator (2). The fluid flows through the bore (6) under the pressure compensator, acting on it by the pressure of the line B. From the opposite side, the pressure compensator is acted upon by the pressure which is before the orifice (3). The pressure compensator shifts the working position. A pressure which is before the onne (3). The pressure movement of the pressure compensator to the increased open position. This enlarges the gap between the bores (7), the orifice (3) and the user. On the contrary, the pressure compensator shifts to the closed position if there is a pressure rise in the line A. The hydraulic fluid flow is constant, and does not depend on the loads on the user.

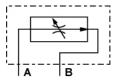
The non-return valve (5) provides a free flow of the hydraulic fluid in the direction from B to А

The flow control valve without the non-return valve (5) provides operation of the valve only in the direction of the flow from A to B..

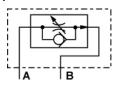
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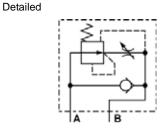
в





TVD-6-NV



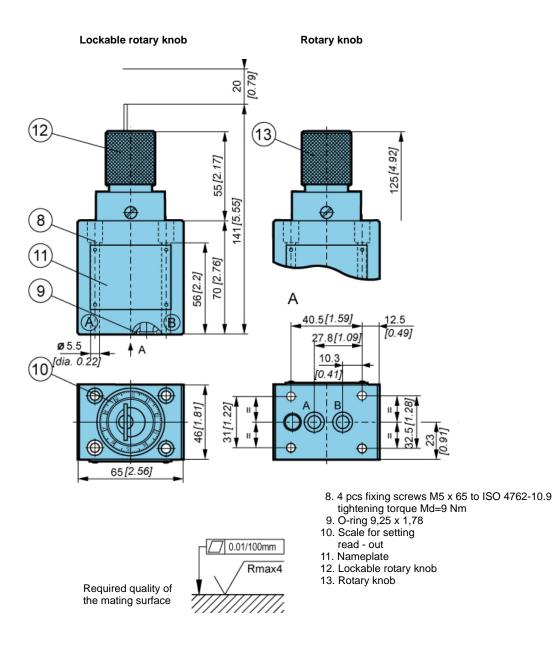


Flow control valves pressure compensated

Features

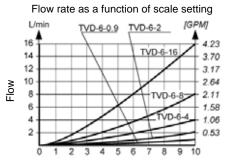
Туре		TVD-6-0,9	TVD-6-2	TVD-6-4	TVD-6-8	TVD-6-16
Flow rate	l/min [GPM]	0,9 <i>[0,23]</i>	2 [0,53]	4 [1,06]	8 [2,11]	16 [4,23]
Operating pressure	Bar [PSI]	100 <i>[1450,38]</i>			350 [5076,32]	
Min. pressure drop	Bar [PSI]	4 [58,01]		10-12 [145-174]	10-14 [145-203]	10-16 [145-232]
Oil temperature range	°C [°F]	-20 to +70 [-4 to +158]				
Viscosity range	mm ² /s [SUS]	15 to 380 [69,5 to 1760]				
Filtration	NAS 1638	8				
Mass	kg [lbs]	1,6 [3,53]				

Dimensions

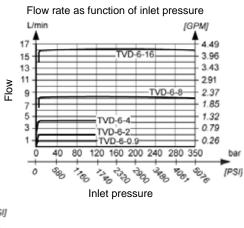


△P-Q Performance curves

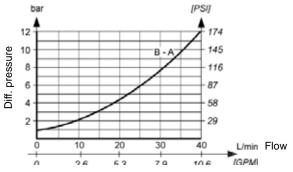
Measured at 50°C [122°F] and viscosity of 32 mm²/s [148 SUS].



Scale indicator



Non-return valve with orifice closed



Model code

