

Double throttle valves are used to control flow rates in

two separate lines (A,B) of a hydraulic circuit. The modular design provides six functional symbols.

The valve body (1) has drilled channels and the throttle valve is built into channel A or B or into channels A and B. They restrict the fluid flow in one direction while providing reverse free-flow in the opposite direction. The throttling spool (2) is adjusted by means of a set screw (3) and each spool position corresponds with a certain area of passage.

Fluid entering port A1 is throttled to port A2 via a groove and an annulus area. Fluid returning from port B2 shifts the valve seat (4) against the spring (5), thus creating a passage which allows reverse free-flow to port B1 (function of a check valve).

The sandwich design enables simple stacking with other components of the same size.

According to the valve arrangement, the meter-in or meter-out control is provided. The orientation of the throttle check valves in the valve body corresponds with the symbols shown on the name plate.

The valve housing (1) is phosphate coated, the surfaces of the other parts are zinc coated.





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Nominal size	mm	04
Maximum flow	L/min	25
Maximum operating pressure	bar	320
Hydraulic fluid		Hydraulic oils of power classes (HL, HLP) to DIN 51524
Fluid temperature range for (NBR)	°C	-30 +100
Fluid temperature range for (Viton)	°C	-20 +120
Viscosity range	mm ² /s	20 400
Maximum degree of fluid contamination		Class 21/18/15 to ISO 4406
Weight	kg	0.8
Mounting position		unrestricted

Δp -Q Characteristics

Throttle valve

Pressure difference ${\it \Delta p}$ related to flow from A1 to A2, (from B1 to B2)

- Throttle setting in turns (from the end stop)





- For applications outside these parameters, please consult the manufacturer.
- The technical information regarding the product presented in this catalogue is for descriptive purposes only. It should not be construed in any case as a guaranteed representation of the product properties in the sense of the law.

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