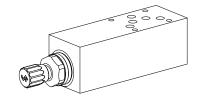


3-way flow control valve Flange- and sandwich construction

• Q_{max} = 120 l/min • Q_{N max} = 100 l/min = 350 bar • p_{max}

NG10 ISO 4401-05



DESCRIPTION

Direct operated, pressure compensated flow control valve in flange- and sandwich construction. Flow control screw-in cartridges M33x2 acc. to ISO 7789 are installed. The flange body is painted, the sandwich plates and the outside parts are phosphatised. The solenoid is zinc coated.

FUNCTION

The 3-way flow control valve is designed to keep the oil flow to any actuator constant irrespectiv of the load.

APPLICATION

3-way flow control valves are used where the supply volume flow has to be kept constant even when the load fluctuates. De-pending on the application, a distinction is made between restricting the forward flow or the return flow.

TYPE CODE									
					Q	D [A10 - [# [
Flow control valve									
3-way									
Type of adjustment	Key Control knob Cover	S D A							
Flange construction Sandwich constructio	n	F S							
nternational standard	interface ISO, NG	10							
Type list/Function	Flange o A → B	construction A/B	Sandwi in P	ch construction					
Nominal volume flow	rate Q _N	50 l/min 100 l/min	50 100						
Design index (subject	to change)								

GENERAL SPECIFICATIONS

3-way flow control valve Description Nominal size NG10 acc. to ISO 4401-05 Flange- and sandwich construction Construction Mounting 4 holes for socket cap screws M6 or studs screws M6

Connection Threaded connection plates Multi-flange subplate

Longitudinal stacking system

-20...50°C Ambient temperature Mounting position

 $M_{\rm D}$ = 9,5 Nm (Qual. 8.8) for fastening screws Fastening torque

 M_D^- = 80 Nm for screw-in cartridge

Weight Flange type m = 2,40 kg Sandwich type m = 3,75 kg(without screw-in cartridge)

HYDRAULIC SPECIFICATIONS

Mineral oil, other fluid on request Fluid Contamination ISO 4406:1999, class 18/16/13 (Required filtration grade ß 6...10≥75) efficiency

see data sheet 1.0-50/2 Viscosity range 12 mm²/s...320 mm²/s -20...+70°C Fluid temperature

 $p_{max} = 350 \text{ bar}$ Peak pressure

 Q_{min}^{-} = 0,2 l/min (at v = 30 mm²/s) Min. volume flow

 $Q_{max} = 120 \text{ l/min}$ Max. volume flow

Control accurancy ≤ 1%

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Illustrations not obligatory Data subject to change

Data sheet no. 2.5-762E 1/2 Edition 08 17



SCREW-IN CARTRIDGES INSTALLED

The following screw-in cartridges are used in either the flange body or the sandwich body:

Type QD.PM33 Designation

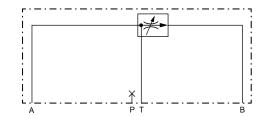
flow control valve
• 3-way

Data sheet no.

2.5-555

TYPE CHARTS

QD.FA10-A/B





REMARK!

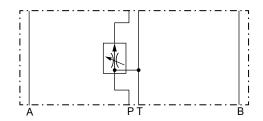
Detailed performance data and additional hydraulic specifications may by drawn from the data sheets of the corresponding installed pressure relief cartridge.



CAUTION!

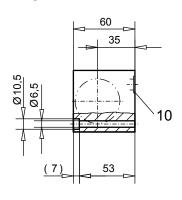
The performace data especially the **«pressure-flow-cha-racteristic»** on the data sheets of the screw-in catridges refere to the screw-in cartridges only. The additional pressure drop of the flange body respectivly sandwich body must be taken into consideration.

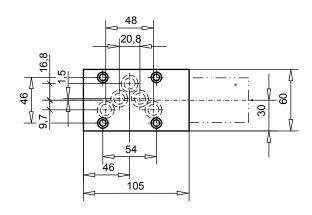
QD.SA10-P



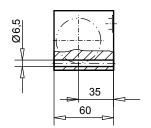
DIMENSIONS

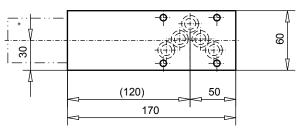
Flange construction QD.FA10-A/B





Sandwich construction QD.SA10-P





* The total lenghts depends on the cartridge type, see data sheet 2.5-555

PARTS LIST

Position	Article	Description
10	160.2140	O-ring ID 14,00 x 1,78 (NBR)

Technical explanation see data sheet 1.0-100