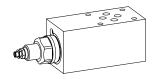


2-way flow control valve Flange- and sandwich construction

• Q_{max} = 48 l/min, p_{max} = 350 bar

• Q_{N max} = 40 l/min

NG6 ISO 4401-03



DESCRIPTION

Direct operated, pressure compensated flow control valve in flange- and sand-wich construction. Flow control screw-in cartridges M22x1,5 acc. to ISO 7789 are installed. In the sandwich plates for A, B and AB line, a bypass check valve for reversed free flow is installed. A bypass non-return valve plate for the flange valve, for free flow from B to A, can be ordered separately. Two flow ranges are available. The flange body is painted and the sandwich plates are phosphatised.

FUNCTION

The 2-way flow control valve is designed to keep the oil flow to any actuator constant irrespectiv of the load.

APPLICATION

2-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	Z		A0	6	[#	# [
Flow control valve													1	
2-way														
Type of adjustment	Key Control k Cover	knob	S D A											
Flange construction Sandwich constructio	n		F S						_					
International standard	l interface I	ISO, NG	<u> </u>											
Type list/Function	FI	lange co	nstruction		ch construction ut flow control	Sandwich c		Sar	dwich o	const	ruction			
	Α	$\rightarrow B$	A/B	in P in T	P	in A in B in A and B	A B AB	in A in B in A		AV BV AB	/			
Nominal volume flow	rate Q _N		2,5 l/min 6,3 l/min 16 l/min 25 l/min 40 l/min	2,5 6,3 16 25 40										
Design index (subject	to change	1)												

GENERAL SPECIFICATIONS

Description 2-way flow control valve Nominal size NG6 acc. to ISO 4401-03 Flange- and sandwich construction Construction Mounting 4 holes for socket cap screws M5 or studs screws M5 Threaded connection plates Connection Multi-flange subplate Longitudinal stacking system Ambient temperature -20...50°C Mounting position M_D = 5,5 Nm (Qual. 8.8), for fastening screws

Fastening torque

 $M_{\underline{D}} = 50 \text{ Nm for screw-in cartridge}$ m = 0.81 kgWeight Flange type (without screw-in cartridge)

· Sandwich type A,B m = 1,15 kgm = 1,45 kg• Sandwich type P,T, AB

HYDRAULIC SPECIFICATIONS

Mineral oil, other fluid on request Fluid Contamination ISO 4406:1999, class 18/16/13 efficiency (Required filtration grade ß 6...10≥75) see data sheet 1.0-50/2

Viscosity range 12 mm²/s...320 mm²/s

-20...+70°C Fluid temperature p_{max} = 350 bar Q_{min} = 0,1 l/min Q_{max} = 48 l/min Peak pressure Min. volume flow Max. volume flow

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Illustrations not obligatory Data subject to change

Data sheet no. 2.5-740E 1/3 Fdition 11 50



SCREW-IN CARTRIDGES INSTALLED

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

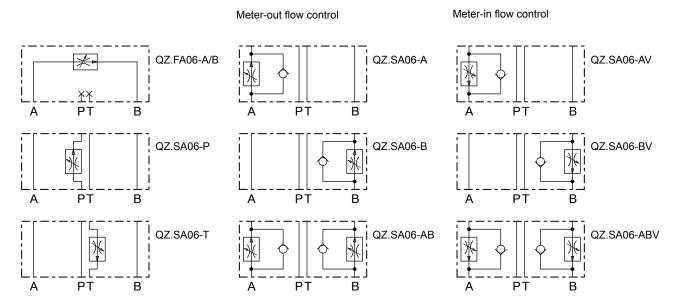
Type QZ.PM22

Designation flow control valve •2-way

Data sheet no.

2.5-535

TYPE CHARTS



By turning around (longitudinal axis) valves with meter-out function, meter-in function can be adchieved:

A turns into AV
B turns into BV
AB turns into ABV



REMARK!

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



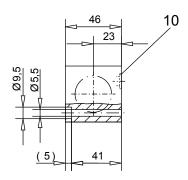
CAUTION!

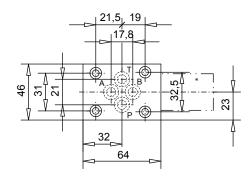
The performace data especially the "pressure-flow-characteristic," on the data sheets of the screw-in catridges refere to the screw-in cartridges only. The additional pressure drop of the flange body respectivly sandwich body must be taken into consideration.



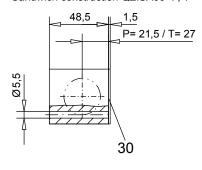
DIMENSIONS

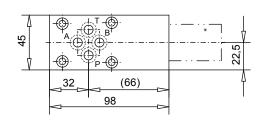
Flange construction QZ.FA06-A/B



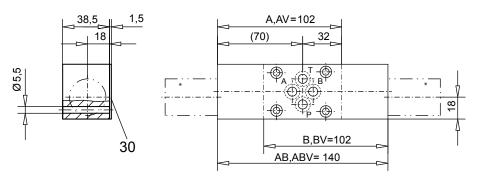


Sandwich construction QZ.SA06-P, T





Sandwich construction QZ.SA06-A, B, AB, AV, BV, ABV



* The total lenghts depends on the cartridge type, see data sheet 2.5-535

PARTS LIST

Position	Article	Description
10	160.2093	O-ring ID 9,25x1,78 (NBR)
30	173.3650	Sealing plate ADB6

Technical explanation see data sheet 1.0-100