148-10177



HYDRAULICKÉ SYSTÉMY

HIDROMA UKŁADY HYDRAULICZNE



ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

Fine feed-/fast approach valve Sandwich construction

• Q_{max} = 40 I/min (Fine feed) • Q_{max} = 80 I/min (Fast approach)

• Q_{N max} = 40 l/min • p_{max} = 350 bar

NG6 ISO 4401-03



DESCRIPTION

Fine feed-/fast approach valve in sandwich construction. 2-way flow control- and 2/2-way poppet valve cartridges are installed. 5 standard nominal volume flow ranges are available (see data sheet 2.5-535). The poppet valve cartridge is electrically actuated (see data sheet 1.11-2082). The sandwich body made of steel is phosphatized.

FUNCTION

The fine feed-/fast approach valve serves for the electrically controlled two-stage speed control. Fine feed and fast approach. In the first stage, the fine feed, the volume flow is controlled by the flow control valve, to the manually adjusted value independent on the load. In doing so, the poppet valve is closed. In the second stage, the fast approach, the volume flow, dependent of the load and of the system pressure, flows through the poppet valve.

APPLICATION

The fine feed-/fast approach valves are utilised in hydraulic systems, which require an electrically controlled fine feed-/fast approach changeover, such as positioning controls on machine tools or elevation controls of elevating platforms, etc. Due to the sandwich construction, these fine feed-/fast approach valves can be integrated into stacked systems as an intermediate flange.

TYPE CODE

					V Q		A06 -		7 - [T - F	7 / W	v 🖂	# [
Fine feed- / fast approach val	ve				ii		/100	T	1		<u> </u>		"
Flow control function								3					
Type of adjustment Key Control F	nob D						11 1						
Sandwich construction													
International standard interfac	e ISO, NO	36				1							
Type list / Function				100		4							
	in P in T	P	Meter in A in B	-out flow control	Meter-in in A in B	AV BV]						
Poppet valve Normally clos Normally ope		0											
Nominal volume flow rate Q_N Flow control valve		2,5 l/min 6,3 l/min 16 l/min 20 l/min	2.5 6.3 16 20) _									
Nominal voltage U _N	-	12VDC 24VDC	G12 G24	115VAC 230VAC	R115 R230					70			
Slip-on coil	М	etal housing	round								*		
Connection execution		tor socket E tor socket A		-803/ISO 4400 r-Timer	D J (only	for U _N ≤	75 VD0	C)					
Design index (subject to chan	ae)												

GENERAL SPECIFICATIONS

Description Fine feed-/fast approach valve Nominal size NG6 acc. to ISO 4401-03 Construction Sandwich construction Mounting 4 holes for socket cap screws M5 or studs screws M5 Connection Threaded connection plates, multi-flange

subplate, longitudial stacking system -20 ... +50 °C

Ambient temperature Mounting any

 $M_D = 5.5 \text{ Nm (Qual. 8.8)}$ Fastening torque

Weight m = 1.9 kg

ELECTRICAL CONTROL

Solenoid construction: see data sheet poppet valve (1.11-2082)

HYDRAULIC SPECIFICATIONS

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

refer to data sheet 1.0-50/2

Viscosity range 12 mm²/s...320 mm²/s

Fluid temperature -20...+70°C Peak pressure Nominal volume flow rates

 $p_{max} = 350 \text{ bar}$ $Q_{N} = 2,5 \text{ l/min}, 6,3 \text{ l/min}, 16 \text{ l/min},$

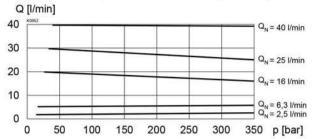
25 l/min, 40 l/min

 $Q_{min} = 0.1 \text{ l/min}$ $Q_{max} = 80 \text{ l/min}$ Min. volume flow Max. volume flow

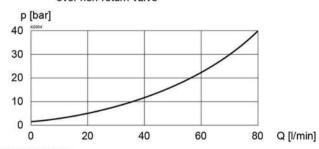
For further hydraulic specifications, refer to data sheet 2.5-535

CHARACTERISTICS Oil viscosity $v = 30 \text{ mm}^2/\text{s}$





 $\Delta p = f(Q)$ Pressure drop volume flow characteristic over non-return valve



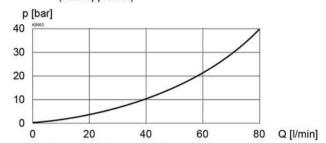
ACCECOIRES

Threaded connection plates and multi-flange subplates Register 2.9 Mating connector EN 175301-803 Article no. 219.2002

VQ.SA06-BO

Technical explanation see data sheet 1.0-100

$\Delta p = f(Q)$ Pressure drops volume flow characteristic (Fast approach)



SCREW-IN CARTRIDGES INSTALLED

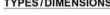
The following screw-in cartridges are used in the sandwich body:

Type	Designation	Data sheet no.
QZ.PM22	Flow control valve	2.5-535
SVSPM22	Solenoid poppet valve	1.11-2082

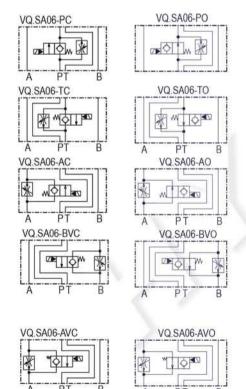
PARTS LIST

Position	Article	Description	
10	160.2093	O-ring ID 9,25x1,78 (NBR)	

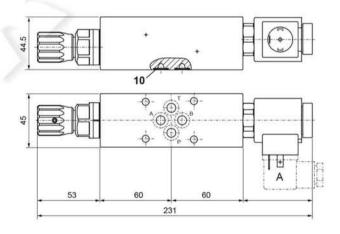
TYPES/DIMENSIONS



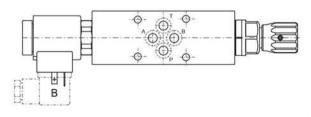
VQ.SA06-BC



Control P, T, A, BV



Control AV, B



Dimensions of the other setting versions see data sheet 2.5-535