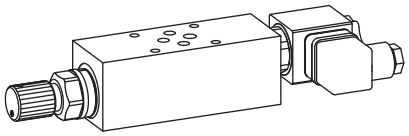
Fine feed- / fast approach valve
Sandwich construction

- Q_{max} = **40 l/min** (Fine feed)
- Q_{max} = **80 l/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. The solenoid housing is zinc coated. The turning knob is anodized colourless.

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 ☐ S A06 - ☐ ☐ - ☐ - ☐ / M ☐ 35 # ☐

Fine feed- / fast approach valve					
Flow control function					
Setting versions:	Key	S			
	Control knob	D			
	Lock	K			
Sandwich construction					
International standard connection ISO, NG6					
Function	Flow control in	Meter-out flow control in:		Meter-in flow control in:	
	P	P	A	A	A	AV
	T	T	B	B	B	BV
Poppet valve	normally closed	C			
	normally open	O			
Standard nominal volume flow rates Q_N	2,5 l/min	2.5			
	6,3 l/min	6.3			
	16 l/min	16			
	25 l/min	25			
	40 l/min	40			
Standard nominal voltage U_N	12VDC	G12	115VAC	R115	
	24VDC	G24	230VAC	R230	
Slip-on coil	Steel				
Connector socket	EN175301-803 / ISO 4400	D			
	AMP Junior-Timer	J			
Coil types					
Design-Index (Subject to change)					

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
Ambient temperature	-20 ... +50 °C
Mounting	any
Fastening torque	M_D = 5,5 Nm (Qual. 8.8)
Weight	m = 1,9 kg

HYDRAULIC SPECIFICATIONS

Fluid	Mineral oil, other fluid on request
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	p_{max} = 350 bar
Nominal volume flow rates	Q_N = 2,5 l/min, 6,3 l/min, 16 l/min, 25 l/min, 40 l/min
Min. volume flow	Q_{min} = 0,1 l/min
Max. volume flow	Q_{max} = 80 l/min

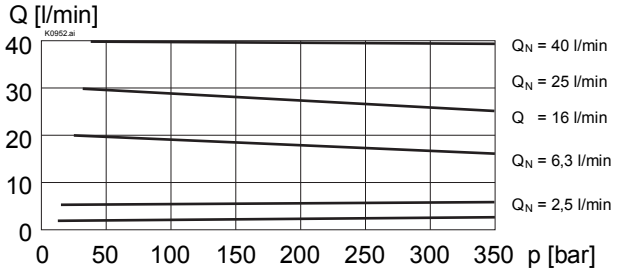
ELECTRICAL CONTROL

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

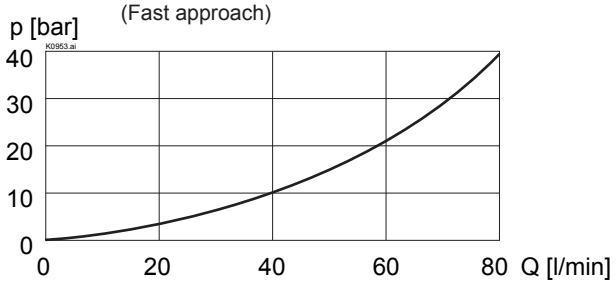
For further hydraulic specifications, refer to data sheet 2.5-535

CHARACTERISTICS Oil viscosity υ = 30 mm²/s

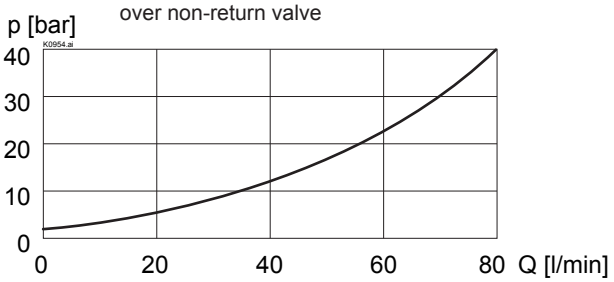
Q = f (p) Volume flow pressure characteristics (Fine feed)



Δp = f (Q) Pressure drops volume flow characteristic (Fast approach)



Δp = f (Q) Pressure drop volume flow characteristic over non-return valve



ACCECOIRES

Threaded connection plates and multi-flange subplates Register 2.9

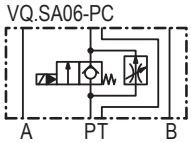
Technical explanation see data sheet 1.0-100

PARTS LIST

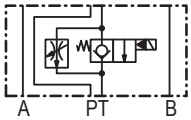
Position	Article	Description
10	134.6650 134.6651 134.6652 134.6649	Sandwich plate P Sandwich plate T Sandwich plate A, AV Sandwich plate B, BV
20	633.3 . . .	Flow control valve QZ.PM22 acc. to data sheet 2.5-535
30	500.3 . . .	Solenoid poppet valve SVSPM22 acc. to data sheet 1.11-2082
40	219.2001 219.2002	Plug A (grey) Plug B (black)
50	160.2093	O-ring ID 9,25 x 1,78

TYPES / DIMENSIONS

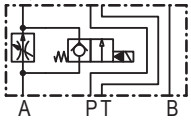
VQ.SA06-PC



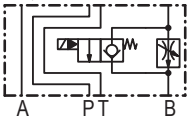
VQ.SA06-TC



VQ.SA06-AC

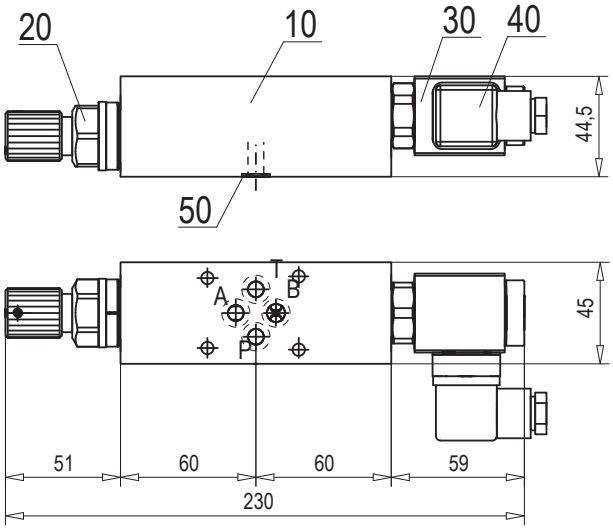


VQ.SA06-BVC

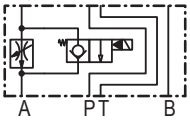


Executions VQ.SA06-.O with

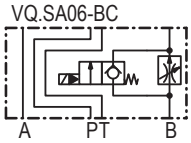
Control P, T, A, BV



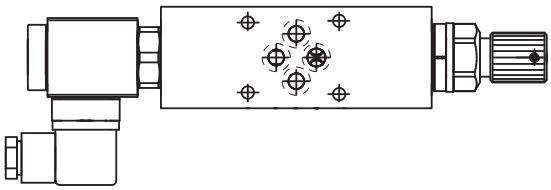
VQ.SA06-AVC



VQ.SA06-BC



Control AV, B



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