

# Fine feed-/fast approach valve Sandwich construction

- Q<sub>max</sub> = 80 I/min (Fine feed)
- $Q_{max}^{max}$  = 120 l/min (Fast approach)
- $Q_{N max}^{max} = 70$  l/min
- p<sub>max</sub> = 350 bar

### DESCRIPTION

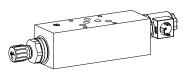
Fine feed-/fast approach valve in sandwich construction. 2-way flow control cartridges (see data sheet 2.5-550) and 2/2-way solenoid poppet valve cartridges 1.11-2076 are installed. 2 standard nominal volume flow ranges are available. The sandwich body made of steel is phosphatized.

#### FUNCTION The fine fe

The fine feed-/fast approach valve serves for the electrically controlled two-stage speed control. Fine feed and fast approach. At 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. At the fast approach the volume flow, dependent of the load and of the system pressure, flows through the poppet valve.

**NG10** 

ISO 4401-05



#### 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 A10 - 🗌	/ W #
Fine feed- / fast approach valve			
Flow control function			
Type of adjustment Key S Control knob D			
Sandwich construction			
International standard interface ISO, NG10			
Type list / Function	Meter-out flow control	Meter-in flow control in	
in P P in T T	in A A in B B	in A AV in B BV	
Poppet valve Normally closed C Normally open O			
Nominal volume flow rate Q32 l/minFlow control valve70 l/min	<u>32</u> 70		
Nominal voltage U <sub>N</sub> 12VDC 24VDC	G12 115VAC G24 230VAC	R115 R230	
Slip-on coil Metal housing	round		
Connection execution Connector socket El Connector socket Al	N175301-803/ISO 4400 MP Junior-Timer	D J (only for U <sub>N</sub> ≤ 75 VDC)	
Design index (subject to change)			

### **GENERAL SPECIFICATIONS**

Description	Fine feed-/fast approach valve
Nominal size	NG10 acc. to ISO 4401-05
Construction	Sandwich construction
Mounting	4 holes for socket cap screws
	M6 or studs M6
Connection	Threaded connection plates, multi-flange
	subplate, stacking system
Ambient temperature	-20 +50 °C
Mounting	any
Fastening torque	$M_{D}$ = 9,5 Nm (Qual. 8.8) for fixing screws
	cartridges: see valve data sheets
Weight	m = 4,5 kg

### HYDRAULIC SPECIFICATIONS

Fluid	Mineral oil, other fluid on request
Contamination efficiency	ISO 4406:1999, class 18/16/13
	(Recommended filtration grade ß 610≥75)
	refer to data sheet 1.0-50/2
Viscosity range	12 mm²/s320 mm²/s
Fluid temperature	-20+70 °C
Peak pressure	p <sub>max</sub> = 350 bar
Nominal volume flow rates	Q <sub>N</sub> = 32 l/min, 70 l/min
Min. volume flow	$Q_{\min} = 0.2 $ l/min
Max. volume flow	Q <sub>max</sub> = 120 l/min

For further hydraulic specifications, refer to flow control valve data sheet 2.5-550.

## **ELECTRICAL ACTUATION**

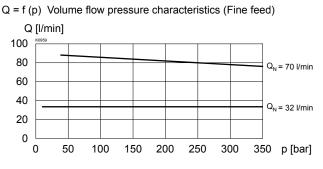
Solenoid construction: see data sheet poppet valve (1.11-2076)

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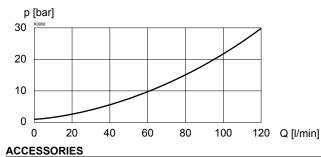
E-mail: sales@wandfluh.com Internet: www.wandfluh.com



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



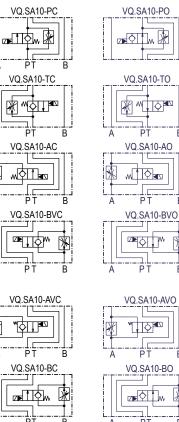
 $\Delta p = f(Q)$ Pressure drop volume flow characteristic over non-return valve function of poppet valve

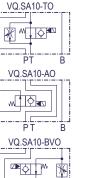


Threaded connection plates and multi-flange subplates Register 2.9 Mating connector EN 175301-803 Article no. 219.2002

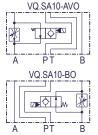
Technical explanation see data sheet 1.0-100

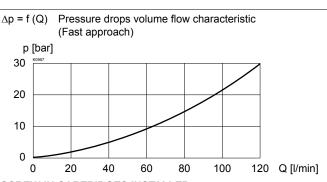
#### TYPES/DIMENSIONS











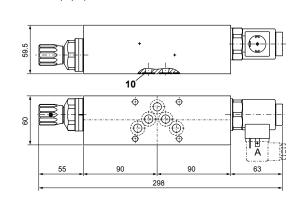
SCREW-IN CARTRIDGES INSTALLED

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

<b>Type</b>	<b>Designation</b>	<b>Data sheet no.</b>
QZ.PM33	Flow control valve	2.5-550
SVSPM33	Solenoid poppet valve	1.11-2076

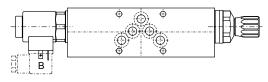
#### PARTS LIST

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



Control AV, B

Control P, T, A, BV



Dimensions of the other setting versions see data sheet 2.5-550

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Illustrations not obligatory Data subject to change