

Fine feed / fast approach unit

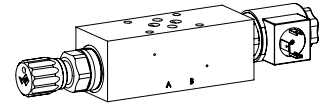
Sandwich construction

- ◆ $Q_{max} = 40$ l/min (Fine feed)
- ◆ $Q_{max} = 80$ l/min (Fast speed)
- ◆ $Q_{Nmax} = 40$ l/min
- ◆ $p_{max} = 350$ bar

DESCRIPTION

Feed unit in sandwich construction. In fine feed, the volume flow is controlled independently of the load via the 2-way flow control cartridge to the manually set value. In doing so, the 2/2-way seat valve cartridge is closed. At the fast approach the volume flow, dependent of the load and of the system pressure, flows through the poppet valve.

NG6
ISO 4401-03

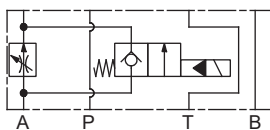


APPLICATION

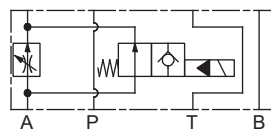
The fine feed-/fast approach valves are utilised in hydraulic systems, which require an electrically controlled fine feed-/fast approach changeover, such as positioning controls on machine tools or elevation controls of elevating platforms, etc. Due to the sandwich construction, these fine feed-/fast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

SYMBOL

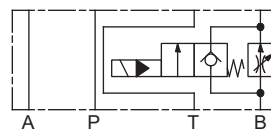
VQ.SA06-AC



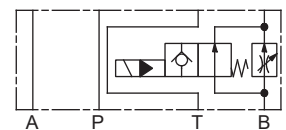
VQ.SA06-AO



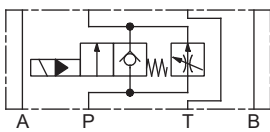
VQ.SA06-BC



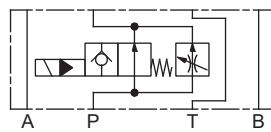
VQ.SA06-B0



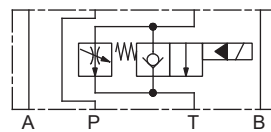
VQ.SA06-PC



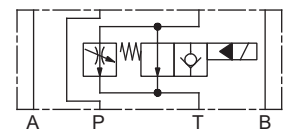
VQ.SA06-PO



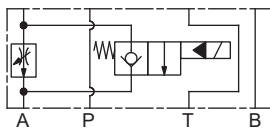
VQ.SA06-TC



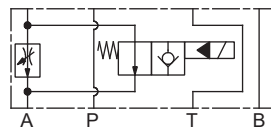
VQ.SA06-T0



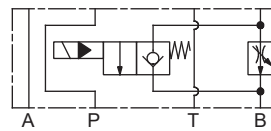
VQ.SA06-AVC



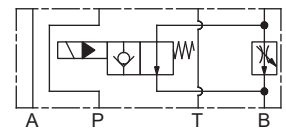
VQ.SA06-AVO



VQ.SA06-BVC



VQ.SA06-BVO



INSTALLATION NOTES

Mounting type	Sandwich mounting 4 fixing holes for socket head screws or studs M5
Mounting position	Any, preferably horizontal
Tightening torque	Fixing screws $M_0 = 5,2$ Nm (quality 8.8, zinc coated) Screw-in cartridge $M_0 = 60$ Nm

STANDARDS

Mounting interface	ISO 4401-03
Solenoids	DIN VDE 0580
Connection execution D	EN 175301 – 803
Protection class	EN 60 529
Contamination efficiency	ISO 4406

TYPE CODE

Fine feed / fast approach unit		V	Q	<input type="checkbox"/>	S	A06	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>	/	W	<input type="checkbox"/>	-	<input type="checkbox"/>	#	<input type="checkbox"/>
Flow control function																			
Type of adjustment	Key	<input type="checkbox"/>		<input type="checkbox"/>															
	Control knob	<input type="checkbox"/>		<input type="checkbox"/>															
Sandwich construction																			
International standard interface ISO, NG6																			
Type list / Function																			
Return flow control	in P	<input type="checkbox"/>		in T															
	in A	<input type="checkbox"/>		in B															
Forward flow control	in A	<input type="checkbox"/>		in B															
Poppet valve	normally closed	<input type="checkbox"/>																	
	normally open	<input type="checkbox"/>																	
Nominal volume flow rate Q_N	2,5 l/min	<input type="checkbox"/>		25 l/min															
Flow control valve	6,3 l/min	<input type="checkbox"/>		40 l/min															
	16 l/min	<input type="checkbox"/>																	
Nominal voltage U_N	12 VDC	<input type="checkbox"/>		115 VAC															
	24 VDC	<input type="checkbox"/>		230 VAC															
Slip-on coil	Metal housing round																		
Connection execution	Connector socket EN 175301-803 / ISO 4400	<input type="checkbox"/>																	
	Connector socket AMP Junior-Timer	<input type="checkbox"/>		(only for $U_N \leq 75$ VDC)															
	Stecker Deutsch DT04-2P	<input type="checkbox"/>		(only for $U_N \leq 75$ VDC)															
Sealing material	NBR	<input type="checkbox"/>																	
	FKM (Viton)	<input type="checkbox"/>																	
Design index (subject to change)																			

2.5-940

GENERAL SPECIFICATIONS

Designation	Fine feed / fast approach unit
Mounting	Sandwich construction
Nominal size	NG6 according to ISO 4401-03
Ambient temperature	-25...+70 °C
Weight	2,2 kg
MTTFd	150 years

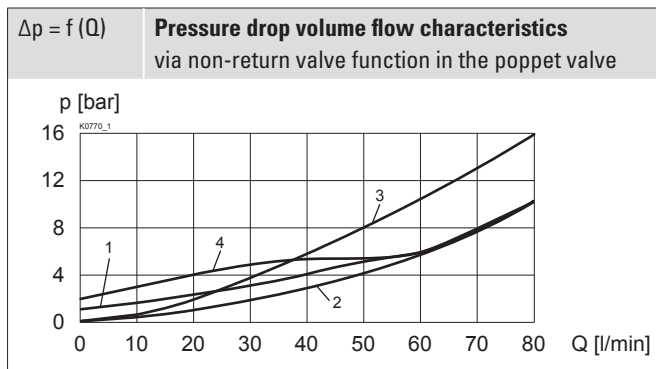
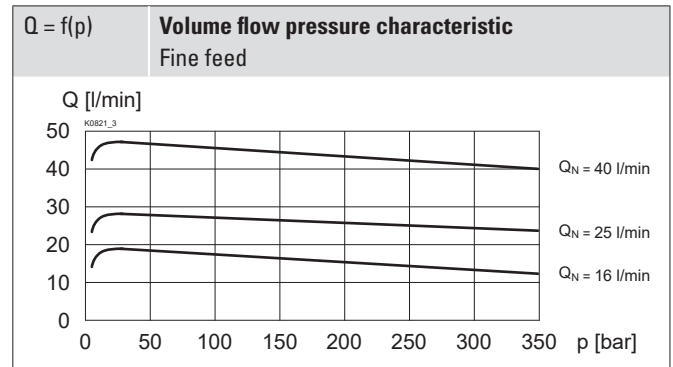
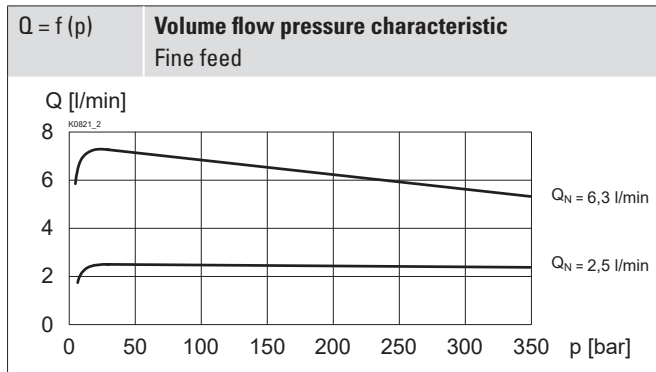
HYDRAULIC SPECIFICATIONS

Working pressure	$p_{max} = 350$ bar
Maximum volume flow	$Q_{max} = 80$ l/min
Minimum volume flow	$Q_{min} = 0,1$ l/min
Nominal volume flow range	$Q_N = 2,5; 6,3; 16; 25; 40$ l/min
Fluid	Mineral oil, other fluid on request
Viscosity range	12 mm ² /s...320 mm ² /s
Temperature range fluid	-25...+70 °C (NBR) -20...+70 °C (FKM)
Contamination efficiency	Class 18 / 16 / 13
Filtration	Required filtration grade $\beta_{6...10} \geq 75$, see data sheet 1.0-50

Note!


Other specifications, see data sheet of the screw-in cartridges

PERFORMANCE SPECIFICATIONS

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


	Normally closed	Normally open
de-energised 1 → 2	1	2
de-energised 2 → 1	-	3
energised 1 → 2	2	4
energised 2 → 1	3	-

ACTUATION

Note! See data sheet of the solenoid operated poppet valve



ACCESSORIES

Types of adjustment for screw-in cartridges	Data sheet 2.0-50
Threaded subplates	Data sheet 2.9-30
Multi-station subplates	Data sheet 2.9-60
Module type manifold blocks	Data sheet 2.9-100
Technical explanations	Data sheet 1.0-100
Filtration	Data sheet 1.0-50

VALVES INSTALLED

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

Article	Description	Data sheet no.
QZ.PM22	2-way flow control cartridge	2.5-535
SVSPM22	Solenoid operated poppet valve cartridge	1.11-2082

SURFACE TREATMENT

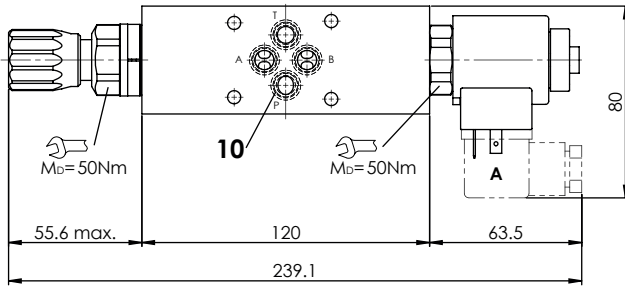
◆ The sandwich bodies are zinc coated or zinc-nickel coated

SEALING MATERIAL

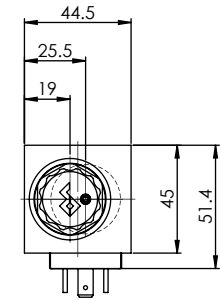
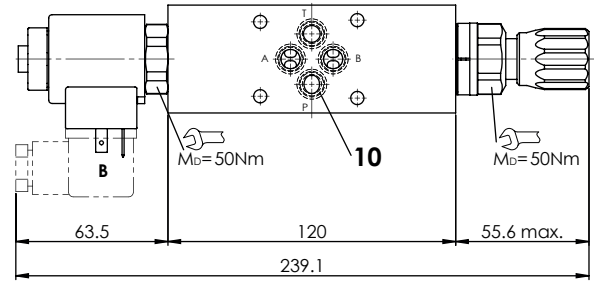
NBR or FKM (Viton) as standard, choice in the type code

DIMENSIONS

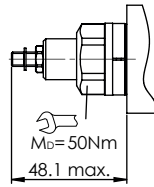
VQDSA06-A., VQDSA06-BV., VQDSA06-P., VQDSA06-T.



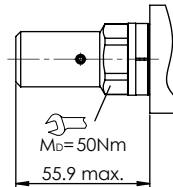
VQDSA06-AV., VQDSA06-B.



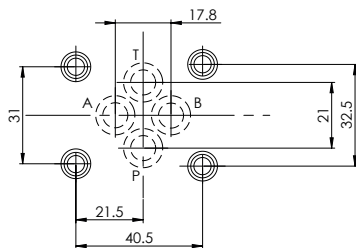
VQSSA06



VQASA06



HYDRAULIC CONNECTION



PARTS LIST

Position	Article	Description
10	160.2093	O-ring ID 9,25 x 1,78 (NBR)
	160.8092	O-ring ID 9,25 x 1,78 (FKM)