

Solenoid operated poppet valve cartridge

- solenoid operated
- pilot operated
- normally closed
- ◆ 2/2-way
- ◆ 0_{max} = 40 l/min
- ◆ p _{max} = 350 bar

DESCRIPTION

Pilot operated 2/2-way solenoid poppet valve in screw-in cartridge design for cavity according to Wandfluh standard. In case of the BC execution, the valve is closed in the de-energised position.

APPLICATION

M20 x 1,5

Poppet valves are used where tight closing functions of the valve are essential like leakfree load holding, clamping or gripping. The poppet valve cartridge is mainly used in the mobile and stationary block construction.

SYMBOL

"Normally closed" BC

TYPE CODE

		S V E PM20 X5 #
Poppet valve		
Pilot operated		
Solenoid		
Screw-in cartridge M20 x 1,5		
2/2 way, «normally closed»	BC	
Without coil	(The coil has to be ordered separately)	
Design index (subject to change)		

1.11-208A

GENERAL SPECIFICATIONS

Designation	2/2-way poppet valve
Construction	Pilot operated
Mounting	Screw-in cartridge type
Nominal size	M20 x 1,5
Actuation	Switching solenoid
Ambient temperature	-30+110 °C
Weight	0,12 kg
MTTFd	150 years

HYDRAULIC SPECIFICATIONS

Working pressure	p _{max} = 350 bar
Maximum volume flow	Q _{max} = 40 l/min, see characteristics
Leakage volume flow	Seat tight, max. 5 drops / min at p _{max}
Fluid	Mineral oil, other fluid on request
Viscosity range	8 mm²/s420 mm²/s
Temperature range fluid	-20+70 °C
Contamination efficiency	Class 20 / 18 / 14
Filtration	Required filtration grade ß 10…16 ≥ 75, see data sheet 1.0-50

SURFACE TREATMENT

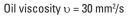
 The armature tube and the external parts of the cartridge body are zinc coated

MANUAL OVERRIDE

None



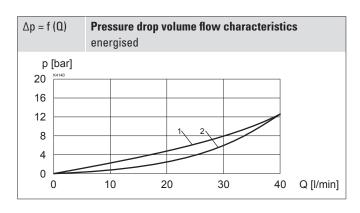
PERFORMANCE SPECIFICATIONS



p = f (0	.)		Performance limits Measured with nominal voltage -10%							
	[bar] K4139								_	
300										
250										
200										
150										
100										
50										
0		4	0		0		0	4) I	
	J	1	U	2	0	3	0	4	U	Q [l/min]

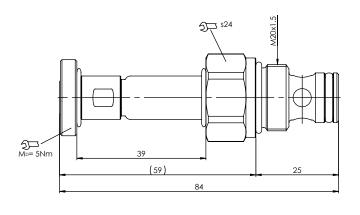
Switching times

SVEPM20	Туре	Switching on	Switching off		
	BC	approx. 30 ms	approx. 50 ms		



	BC
de-energised $1 \rightarrow 2$	2
de-energised $2 \rightarrow 1$	-
energised $1 \rightarrow 2$	2
energised $2 \rightarrow 1$	1

DIMENSIONS



ACCESSORIES

Technical explanations	data sheet 1.0-100
Hydraulic fluids	data sheet 1.0-50
Filtration	data sheet 1.0-50
Relative duty factor	data sheet 1.1-430

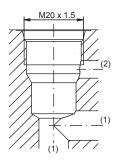
INSTALLATION NOTES

Mounting type
Mounting position
Tightening torque

Screw-in cartridge M20 x 1
Any, preferably horizontal
M_{D} = 40-45 Nm for screw-in cartridge

HYDRAULIC CONNECTION

Cavity drawing according to Wandfluh standard





For detailed cavity drawing and cavity tools see data sheet 2.13-1042

ACTUATION

Actuation	Switching solenoid, wet pin pull type, pressure tight
Execution	K.E33 / 13 x 39 (data sheet 1.1-160)
	Connector socket EN 175301 – 803 Connector socket AMP Junior-Timer Connector Deutsch DT04 – 2P



The solenoid coil is not included in the delivery!

STANDARDS

Protection class	EN 60 529
Contamination	ISO 4406
efficiency	

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