

Solenoid poppet valve cartridge 2/2-way version

- Pilot operated
- Q_{max} = 50 l/min
- $p_{max}^{max} = 350 \text{ bar}$

DESCRIPTION

Pilot operated 2/2-way poppet valve in screwin cartridge design with thread 3/4"-16 UNF for cavity according to Wandfluh standard. The valve functions «normally open-CB» and «normally closed-BC» are available. There are two versions of the slip-on coil. The coils may be exchanged without opening the hydraulic circuit. The outside of the armature tube and the valve body are zinc coated for surface protection.

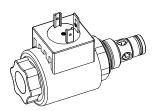
³/₄"-16 UNF Wandfluh-Norm

FUNCTION

• «Current-free open -CB»

In case of a current-free solenoid, it is possible for the flow to pass through the valve in both directions. In case of a solenoid under current, the valve is blocked from connection 2 to 1. If, however, the pressure in connection 1 rises above the solenoid power, the valve opens.

 «Current-free closed -BC» In case of a current-free solenoid, the valve is blocked from connection 2 to 1. If, however, the pressure in connection 1 is higher than in connection 2, the valve opens. In case of a solenoid under current, it is possible for the flow to pass through the valve in both directions.



APPLICATION

Wandfluh solenoid operated poppet valves are applied where an absolutly leak free closing of the valve is essential like in load holding, clamping or gripping functions. The solenoid operated screw-in cartridges are mainly used in mobile or stationary integrated blocks.

TYPE CODE

	S V S PU08 / / #
Poppet valve	
Pilot operated	
Super-solenoid	
Screw-in cartridge 3/4" 16UNF	
2/2-way, «normally closed»BC2/2-way, «normally open»CB	
	<u>115</u> 230
Slip-on coil Metal housing round W Metal housing square M*	
Connection version Connector socket EN 175301-803/ISO 4400 Connector socket AMP Junior-Timer Connector Deutsch DT04-2P	
Sealing material: NBR FKM (Viton) D1	
Design-Index (Subject to change)	

* Only available in conjunction with other nominal voltages

and connection versions. (See data sheet 1.1-171)

GENERAL SPECIFICATIONS

Description	Pilot operated 2/2-way solenoid poppet valve	
Construction	Screw-in cartridge for cavity acc. to	
	Wandfluh standard	
Operation	Solenoid with exchangable slip-on coil	
Mounting	Screw-in thread 3/4"-16 UNF	
Ambient temperature	-20+50 °C 100% DF	
	-20+70 °C 40% DF/5 min	
	(see characteristics)	
Mounting position	any	
Fastening torque	$M_{p} = 30$ Nm for cartridge	
	$M_{D max} = 5 \text{ Nm for knurled nut}$	
Weight	m = 0,42 kg	
Volume flow	see symbols	

HYDRAULIC SPECIFICATIONS

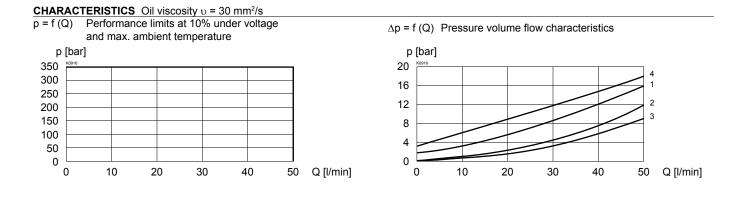
Fluid Contamination Efficiency Viscosity range Fluid temperature Working pressure Nominal flow Pressure drop

Mineral oil, other fluid on request ISO 4406:1999, classe 20/18/14 (Required filtration grade ß10...16≥75) see data sheet 1.0-50/2 12 mm²/s...320 mm²/s -20...+70°C $p_{max} = 350 \text{ bar}$ $Q_N = 50 \text{ l/min}$ see characteristics

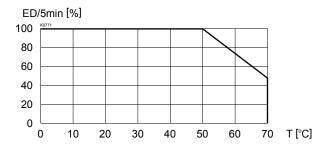
E-mail: sales@wandfluh.com Internet: www.wandfluh.com



SYMBOLS		ELECTRICAL CONTROL		
		Construction	Solenoid, wet pin, pull or push type, pressure tight with exchangable slip-on coil	
		Standard nominal voltage:	U _N = 12 VDC, 24 VDC U _N = 115 VAC*, 230 VAC* AC = 50 up to 60 Hz	
SVSPU08-BC SVSPU08-CB		 * Rectifier integrated in connector socket 		
	SVSPU08-CB	 Other nominal voltages and wattages on request 		
		Voltage tolerance	±10% of nominal voltage	
		Protection class	Connection version	
		acc. EN 60529	D:IP 65	
			J: IP 66	
			G:IP 67 and 69 K	
		Relative duty cycle (DF)	100% DF ambient temperature to 50 °C 40% DF ambient temperature to 70 °C (see characteristics)	
		Operating life	10^7 (number of switching cycles, theoretically)	
		Connections/Power supply	Versions see type code	
		For further electrical specifi	ications see data sheet 1.1-169 (W) 1.1-171 (M)	



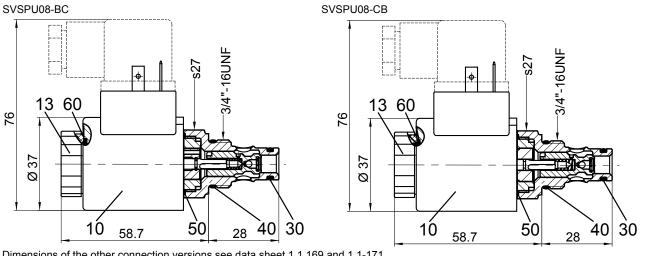
Relative duty factor = f (Ambient temperature)



		вс	СВ
Current-free	$1 \rightarrow 2$	1	2
Current-free	$2 \rightarrow 1$	-	3
under current	$1 \rightarrow 2$	2	4
under current	$2 \rightarrow 1$	3	-

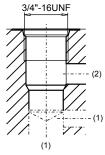


DIMENSIONS/SECTIONAL DRAWING



Dimensions of the other connection versions see data sheet 1.1.169 and 1.1-171 CAVITY

Cavity drawing acc. to Wandfluh standard



For detailed cavity drawing and cavity tools see data sheet 2.13-1043

PARTS LIST

Position	Article	Description
		EN 175301
10	206.2213	Solenoid coil WDE37/16x40-G24
	206.2212	Solenoid coil WDE37/16x40-G12
		Junior-Timer
	206.2218	Solenoid coil WJE 37/16x40-G24
	206.2217	Solenoid coil WJE 37/16x40-G12
		Deutsch
	206.2220	Solenoid coil WGE37/16x40-G24
	206.2219	Solenoid coil WGE37/16x40-G12
13	154.2600	Knurled nut M16x1x9
30	160.0091	O-ring polyurethane ID 9,25x1,78
40	160.2156	O-ring ID 15,60x1,78 (NBR)
	160.8156	O-ring ID 15,60x1,78 (NBR)
50	160.1220	O-ring ID 22,00x1,00
60	160.2156	O-ring ID 15,60x1,78

ACCESSORIES

Mating connector EN 175301-803

Article no. 219.2002

Technical explanation see data sheet 1.0-100