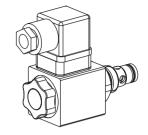


Solenoid poppet valve cartridge 2/2-way version

- · Pilot operated
- Q_{max} = 50 l/min
- p_{max} = 350 bar

3/4"-16 UNF Wandfluh-Norm



DESCRIPTION

Pilot operated 2/2-way poppet valve in screw-in 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. The actuating takes place by means of a solenoid. This can be rotated through 360° and is replaceable without opening the hydraulic system. All components located on the outside are zinc coated and thus protected against rust.

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. To machine the cavities, cavity tools may be supplied (hire or purchase). Please refer to the data sheets in register 2.13.

TYPE CODE													
				s v	S	PU34	-		/	M	;	35 #	
Poppet valve													
Pilot operated				_									
Super													
Screw-in cartridge ³ / ₄ "-16 UNF													
2/2-way, «normally closed» 2/2-way, «normally open» BC CB													
Standard-nominal voltage U _N 12 VDC G12 110 VAC R110 24 VDC G24 115 VAC R230			R115					_					
Slip-on coil ma	ade of steel												
Connector socket:			D J L } only for execution DC										
Coil type													
Design-Index ((Subject to change)											_	

GENERAL SPECIFICATIONS

Pilot operated 2/2-way solenoid poppet valve Description

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 anv

 $M_D = 30 \text{ Nm for cartridge}$ Fastening torque

 $M_{D \text{ max}} = 5 \text{ Nm for coil retaining nut}$ m = 0.42 kg

Weight Volume flow see symbols

HYDRAULIC SPECIFICATIONS

Mineral oil, other fluid on request Fluid Contamination ISO 4406:1999, classe 20/18/14 Efficiency (Required filtration grade ß10...16≥75)

see data sheet 1 0-50/2 Viscosity range 12 mm²/s...320 mm²/s

Fluid temperature -20...+70°C $p_{max} = 350 \text{ bar}$ $Q_{N} = 50 \text{ l/min}$ Working pressure Nominal flow Pressure drop see characteristics

Wandfluh AG Postfach CH-3714 Frutigen

Tel. +41 33 672 72 72 Fax +41 33 672 72 12

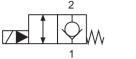
E-mail: sales@wandfluh.com Internet: www.wandfluh.com

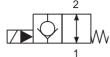
Illustrations not obligatory Data subject to change

Data sheet no. 1.11-2083E 1/3 Edition 08 47



SYMBOLS





SVSPU34-BC...

SVSPU34-CB...

ELECTRICAL CONTROL

Solenoid, wet pin, pull or push type, Construction

pressure tight with exchangable

slip-on coil

U_N = 12 VDC, 24 VDC Standard nominal voltage:

U_N = 110 VAC*, 115 VAC*, 230 VAC*

 \overrightarrow{AC} = 50 up to 60 Hz

- * Rectifier integrated in connector socket

- Other nominal voltages and wattages on request Voltage tolerance ±10% of nominal voltage Protection class IP 65 acc. to EN 60 529

100% DF ambient temperature to 50°C Relative duty cycle (DF)

40% DF ambient temperature to 70 °C

(see characteristics)

Operating life Connections/Power supply

10⁷ (number of switching cycles, theoretically)

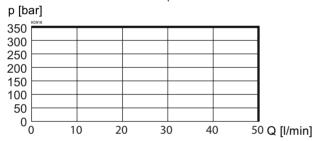
Versions see type code

Solenoid type: - Steel coil (M.35/16x40)

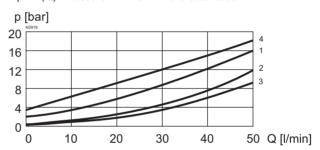
data sheet 1.1-171

CHARACTERISTICS Oil viscosity υ = 30 mm²/s

Performance limits at 10% under voltage p = f(Q)and max. ambient temperature

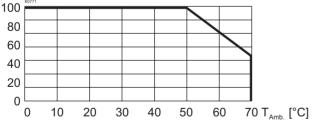


$\Delta p = f(Q)$ Pressure volume flow characteristics



Relative duty factor = f (Ambient temperature)

DF/5min [%]

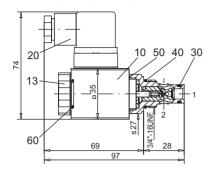


		ВС	СВ
Current-free	1 → 2	1	2
Current-free	2 → 1	_	3
under current	1 → 2	2	4
under current	2 → 1	3	_

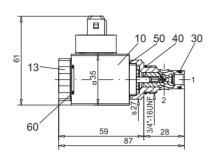


DIMENSIONS/SECTIONAL DRAWING

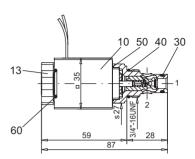
with DIN connector socket



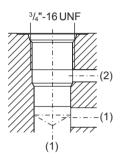
with Junior-Timer connector socket



Stranded conductor version



Cavity drawing acc. to Wandfluh standard



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

PARTS LIST

Position	Article	Description	
10	260.4	Coil complete M.35/16x40	
13	154.2600	Knurled nut M16x1x9	
20	219.2002	Plug	
30	160.0091	O-ring polyurethane ID 9,25x1,78	
40	160.2188	O-ring ID 15,60x1,78	
50	160.1220	O-ring ID 22,00x1,00	
60	160.2156	O-ring ID 15,60x1,78	

ACCESSORIES

Cartridge built-in flange- or sandwich body Flange valve Sandwich valve

register 1.11 register 1.11

Technical explanation see data sheet 1.0-100