



2/2 way Plunger-Solenoid Valve with separating diaphragm

- Compact design
- Low electrical power consumption
- Short response times
- Hermetically sealing isolating diaphragm
- Non-metallic valve internals

Product variants described in the data sheet may differ from the product presentation and description.

Type description

Type 117 is a normally-closed direct-acting plunger-type solenoid valve with PTFE-coated diaphragm. The diaphragm isolates the fluid from the solenoid system. When deenergized (in circuit function A) the valve is closed by spring action. When energized, the solenoid armature is drawn in 2/2 way, G 1/8, UNF 1/4-28 FluidControl Systems against a spring to open the valve. The solenoid epoxy encapsulation efficiently dissipates the heat generated by the coil.

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1. General technical data

Product characteristics

Materials

Body	ETFE (TEFZEL)
Seal	PTFE with EPDM
	PTFE with FKM

Max. viscosity	21 mm ² /s
Nominal operating mode	Continuous operation (duty cycle 100 %)
Protection class with cable plug	IP65

Electrical data

Operating voltages	12 V DC, 12 V DC battery, 24 V DC, 24 V UC, 220...230 V UC
Voltage tolerance	± 10 %
Electrical connections	Standard delivery: Cable plug DIN 43 650 Form B, 0...250 V, wires 300 mm length

Performance data

Response time

Opening	Approx. 20 ms
Closing	Approx. 20 ms
Electrical power consumption	4 W
Switching frequency	Up to 300 c.p.m.

Media data

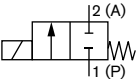
Medium

PTFE/EPDM	Alkalies, mineral acids and organic acids, washing and bleaching lyes
PTFE/FKM	Oxidising acids and lyes, saline solutions, oils and waste gases
Medium temperature	-10 °C...+70 °C

Environment and installation

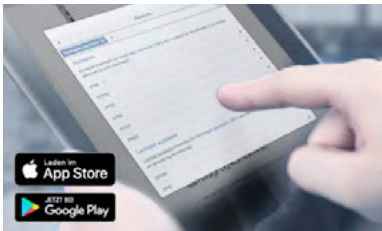
Max. ambient temperature	Max. +55 °C
Installation position	Any, preferably with solenoid actuator face up

2. Circuit functions

Circuit function	Description
	Type: A, Solenoid valve 2/2 way Direct-acting Normally closed

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp

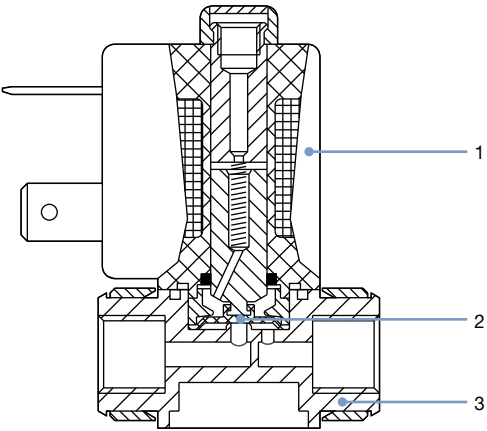


Bürkert resistApp – Chemical Resistance Chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start Chemical Resistance Check

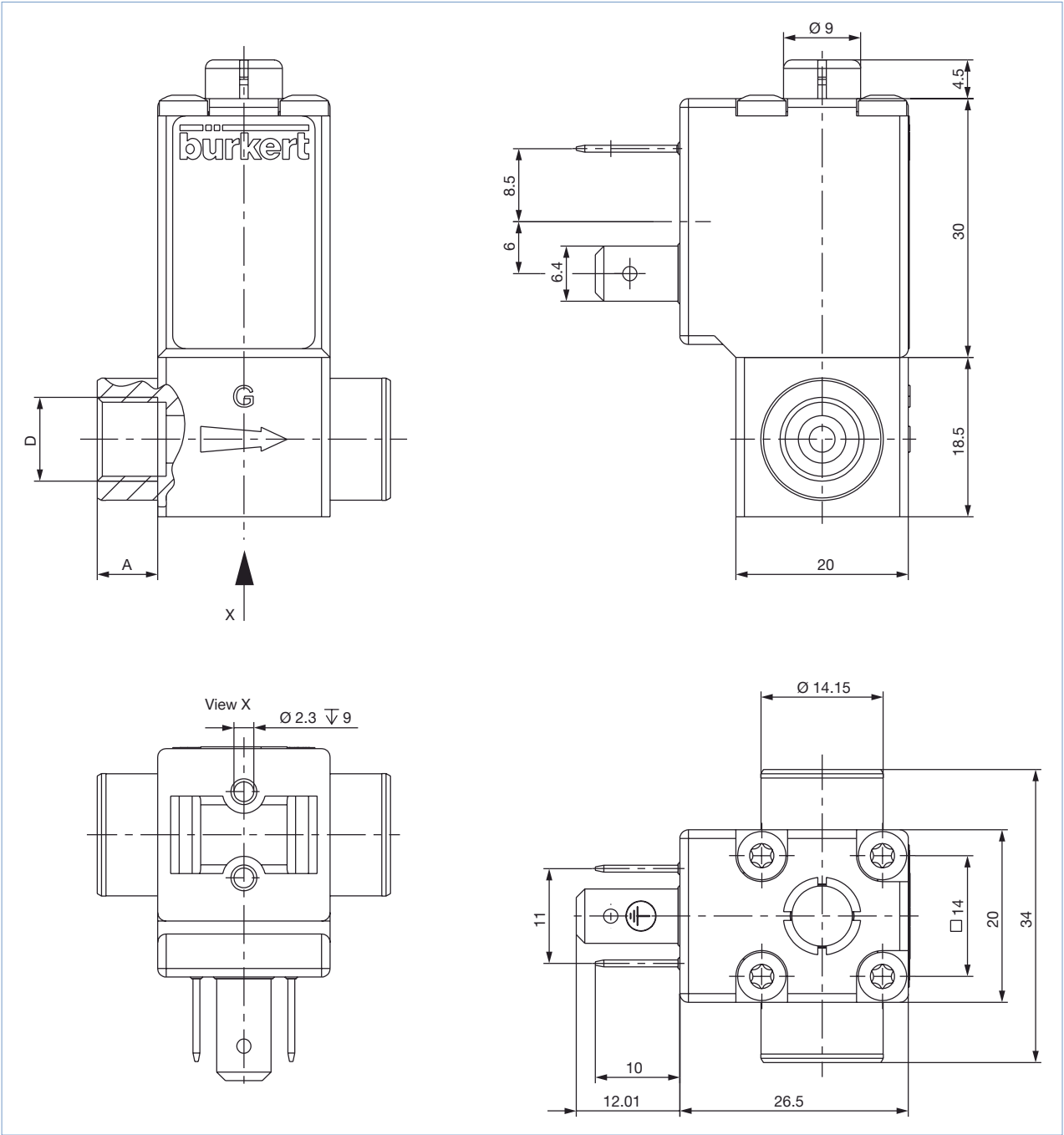
3.2. Material specifications



No.	Element	Material
1	Body	Epoxide
2	Separating diaphragms	PTFE/FKM, PTFE/EPDM
3	Valve body	ETFE (TEFZEL)

4. Dimensions

Note:
D = G 1/8, UNF and NPT



D	A
G 1/8	8
NPT 1/8	7
UNF 1/4...28	8