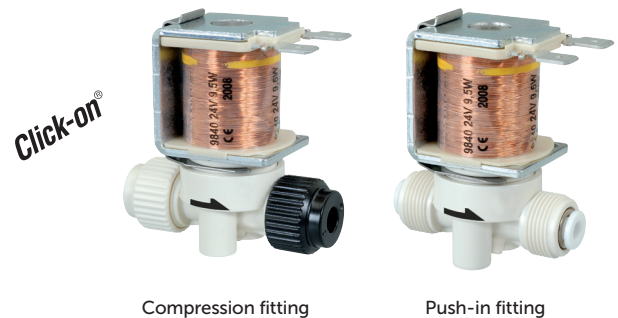


83150 2/2-way seat valves

- Port size:
DN 2,5 ... 4,5
- High flow rate
- Functional compact design
- Solenoid interchangeable without tools (Click-on®)
- Valve operates without differential pressure
- Good corrosion resistance
- Increased service life > low maintenance
- International approvals



Technical features

Medium:
Neutral gases and liquids

Switching function:
Normally closed

Version:
Directly solenoid actuated

Mounting position:
Optional, preferably solenoid vertical on top

Flow direction:
Determined

Port size:

- Standard \varnothing 6 mm (O/D 6 mm, I/D 4 mm)
- Optional \varnothing 8 mm PIF (compression fitting) (O/D 8 mm, I/D 6 mm)
- Optional \varnothing 4 mm PIF (Tube push-in fitting) (O/D 4 mm, I/D 2 mm)

OD tube tolerance \pm 0,1 mm

Operating pressure:
0 ... 12 bar (+32 ... 174 psi)

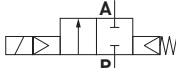
Ambient temperature:
0° ... +50°C (+32 ... +122°F)

Fluid temperature:
0° ... +125°C (+32 ... +257°F)

Material:
Body: PPSU (Polyphenylsulfon)
Seat seal: EPDM
Internal parts: Stainless steel

Components made of PPSU do not come into contact with the following media:
acetone, ether, ketones, aromatic hydrocarbons, chlorinated hydrocarbons, oxidising acids and anaerobic adhesives

Technical data – standard models

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m³/h)	Operating pressure *2)		Solenoid						Weight *3) (kg)	Model
				9846 (bar)	(psi)	9830 (bar)	(psi)	9837 (bar)	(psi)	9897 (bar)	(psi)		
	6/4	2,5	0,15	12	174	12	174	4	58	4	58	0,17	8315000.98xx.xxxxx
	6/4	3,5	0,18	4	58	4	58	–	–	–	–	0,17	8315001.98xx.xxxxx
	8/6	4,5	0,45	3	43	3	43	–	–	–	–	0,17	8315002.98xx.xxxxx
	6/4	2,5	0,15	4	58	4	58	–	–	–	–	0,17	8315003.98xx.xxxxx
	4 PIF 4*)	2,5	0,15	12	174	12	174	4	58	4	58	0,17	8315020.98xx.xxxxx
	4 PIF 4*)	3,5	0,15	4	58	4	58	–	–	–	–	0,17	8315021.98xx.xxxxx
	4 PIF 4*)	2,5	0,15	4	58	4	58	–	–	–	–	0,17	8315023.98xx.xxxxx

xxxxx Please insert voltage and frequency codes

*1) Cv-value (US) \approx kv value x 1,2

*2) For gases and liquid fluids up to 25 mm²/s (cSt)

*3) Valve only (without coil)

*4) PIF = Push-in fitting

Valve design No. 00, 01, 03 compression fitting \varnothing 6 mm
Valve design No. 02 compression fitting \varnothing 8 mm
Valve design No. 20 ... 23 Push-in fitting \varnothing 4 mm

Option selector

Port size	Substitute
Compression fitting	0
Push-in fitting	2
Orifice (mm)	Substitute
2,5	0
3,5	1
4,5	2
2,5 (big stroke)	3

83150★★.★★★★.★★★★★

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See voltage codes	xxx
Solenoid options	Substitute
Voltage 24 V d.c. d.c. 9,5 W Voltage range $\pm 10\%$ Duty cycle 40% ED 3 min SD Terminals 6,3 x 0,8 Protection class IP 00	9846
Voltage 24 V d.c. d.c. 9,5 W Voltage range $\pm 10\%$ Duty cycle 100% ED Terminals 6,3 x 0,8 Protection class IP 00	9830
Voltage 24 V d.c. d.c. 11 W Voltage range $+0\% / -5\%$ Duty cycle 50% ED 1 min SD Terminals 6,3 x 0,8 Protection class IP 00	9837 *1)
Voltage 24 V 40 ... 60 Hz a.c. 9 VA Voltage range $\pm 10\%$ Duty cycle 40% ED 3 min SD Plug with rectifier EN175301-803A Protection class IP 00	9897 *2)

Design acc. to DIN VDE 0580

Further versions on request!

Only for the following connections:

*1) Solenoid 9837

Compression fitting: 2,5

Push-in-fitting: 2,5; 3,5; 4,5

*2) Solenoid 9897

Compression fitting: 2.5

Push-in-fitting: 2,5

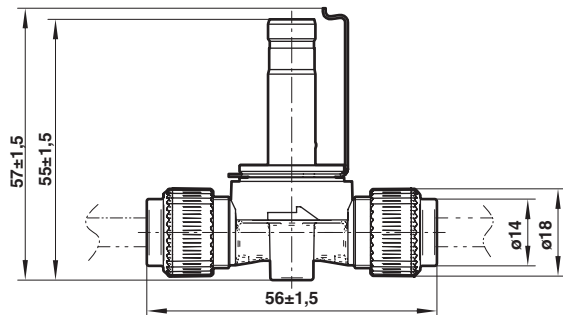
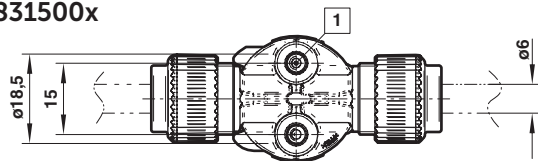
Electrical details for all solenoid systems

According to DIN VDE 0580 at a solenoid temperature of +20°C.

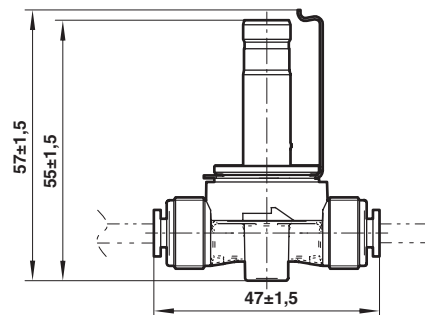
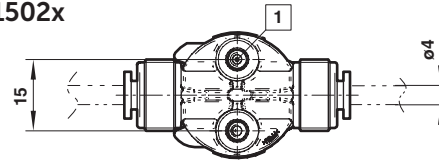
At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

Dimensions

831500x



831502x

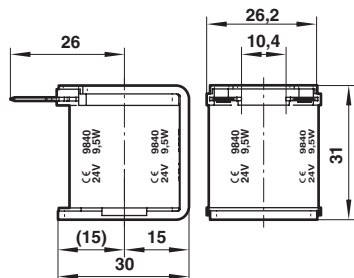


Dimensions in mm
Projection/first angle

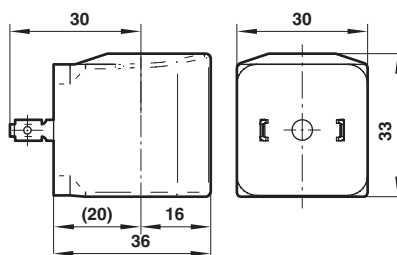


1 Mounting holes $\varnothing 3,8 \times 9$ mm deep

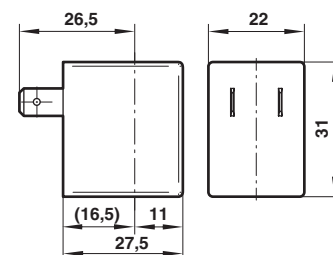
9846.02400



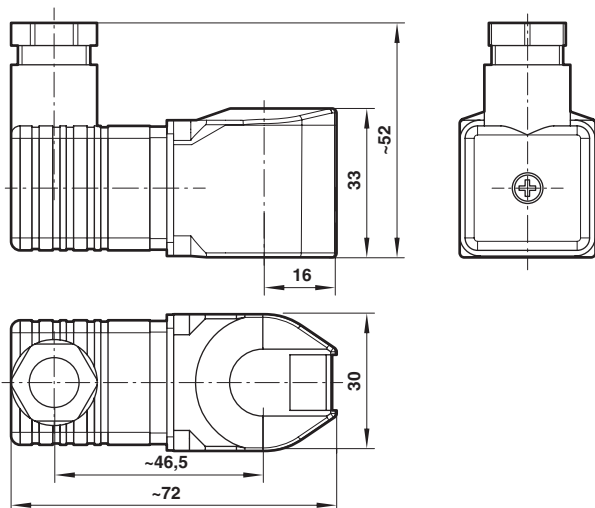
9830.02400



9837.02400



9897.23049



Note to Pressure Equipment Directive (PED):

The valves of this series are according to Art. 4 § 3 of the Pressure Equipment Directive (PED) 2014/68/EU. This means interpretation and production are in accordance to engineers practice wellknown in the member countries. The CE-sign at the valve does not refer to the PED. Thus the declaration of conformity is not longer applicable for this directive.

Note to Electromagnetic Compatibility Guideline (EEC):

The valves shall be provided with an electrical circuit which ensures the limits of the harmonised standards EN 61000-6-3 and EN 61000-6-1 are observed, and hence the requirements of the Electromagnetic Compatibility Guideline (2014/30/EU) satisfield.