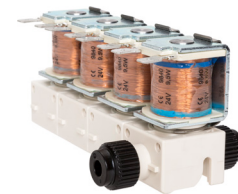


83153 2/2-way seat valves

- Port size: DN 1,5 ... 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

Click-on®



Compression fitting



Push-in fitting



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 ø 6 mm (O/D 6 mm, I/D 4 mm)
- Optional ø 8 mm PIF (compression fitting) (O/D 8 mm, I/D 6 mm)
- Optional ø 6 mm PIF (Tube push-in fitting) (O/D 6 mm, I/D 4 mm)

OD tube tolerance $\pm 0,1$ mm

Operating pressure:
0 ... 12 bar

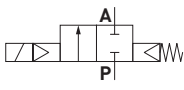
Fluid temperature:
0 ... +125°C

Ambient temperature:
0 ... +50°C

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 – Inlet

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m³/h)	Operating pressure *2) (bar)		Weight *3) (kg)	Model
				Solenoid 9846	Solenoid 9837		
	6/4	1,5	0,04	16	12	0,044	8315300.98xx.xxxxx *5)
	6/4	2,5	0,15	12	5	0,044	8315301.98xx.xxxxx
	6/4	3,5	0,18	4	–	0,040	8315302.98xx.xxxxx *5)
	8/6	4,5	0,45	3	–	0,043	8315303.98xx.xxxxx
	4 PIF *4)	1,5	0,04	16	12	0,044	8315305.98xx.xxxxx *5)
	6 PIF *4)	2,5	0,15	12	5	0,044	8315306.98xx.xxxxx
	6 PIF *4)	3,5	0,18	4	–	0,040	8315307.98xx.xxxxx *5)
	6 PIF *4)	4,5	0,2	3	–	0,043	8315308.98xx.xxxxx *5)

xxxxx Please insert voltage and frequency codes

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

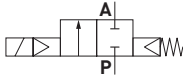
*2) For gases and liquid fluids up to 25 mm²/s (cSt)

*3) Valve only (without coil)

*4) PIF = Push-in fitting

*5) Delivery time and minimum lot size on request

Technical data – Middle

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m³/h)	Operating pressure *2) (bar)		Weight *3) (kg)	Model
				Solenoid 9846	Solenoid 9837		
	6/4	1,5	0,04	16	12	0,041	8315310.98xx.xxxxx *5)
	6/4	2,5	0,15	12	5	0,041	8315311.98xx.xxxxx
	6/4	3,5	0,18	4	–	0,041	8315312.98xx.xxxxx *5)
	8/6	4,5	0,45	3	–	0,039	8315313.98xx.xxxxx
	4 PIF *4)	1,5	0,04	16	12	0,041	8315315.98xx.xxxxx *5)
	6 PIF *4)	2,5	0,15	12	5	0,041	8315316.98xx.xxxxx
	6 PIF *4)	3,5	0,18	4	–	0,041	8315317.98xx.xxxxx *5)
	6 PIF *4)	4,5	0,2	3	–	0,039	8315318.98xx.xxxxx *5)

xxxxx Please insert voltage and frequency codes

*1) Cv-value (US) ≈ kv value x 1,2

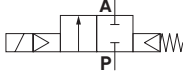
*2) For gases and liquid fluids up to 25 mm²/s (cSt)

*3) Valve only (without coil)

*4) PIF = Push-in fitting

*5) Delivery time and minimum lot size on request

Technical data – Outlet

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m³/h)	Operating pressure *2) (bar)		Weight *3) (kg)	Model
				Solenoid 9846	Solenoid 9837		
	6/4	1,5	0,04	16	12	0,042	8315320.98xx.xxxxx *5)
	6/4	2,5	0,15	12	5	0,041	8315321.98xx.xxxxx
	6/4	3,5	0,18	4	–	0,041	8315322.98xx.xxxxx *5)
	8/6	4,5	0,45	3	–	0,040	8315323.98xx.xxxxx
	4 PIF *4)	1,5	0,04	16	12	0,042	8315325.98xx.xxxxx *5)
	6 PIF *4)	2,5	0,15	12	5	0,041	8315326.98xx.xxxxx
	6 PIF *4)	3,5	0,18	4	–	0,041	8315327.98xx.xxxxx *5)
	6 PIF *4)	4,5	0,2	3	–	0,040	8315328.98xx.xxxxx *5)

xxxxx Please insert voltage and frequency codes

*1) Cv-value (US) ≈ 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

*5) Delivery time and minimum lot size on request

Option selector

83153★.★.★.★.★.★.★.★

Connection	Substitute
Inlet	0
Middle	1
Outlet	2
Orifice (mm)	Substitute
Compression fitting DN 1,5	0
Compression fitting DN 2,5	1
Compression fitting DN 3,5	2
Compression fitting DN 4,5	3
Push-in DN 1,5	5
Push-in DN 2,5	6
Push-in DN 3,5	7
Push-in DN 4,5	8

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See Voltage codes	xxx
Solenoid options	Substitute
Voltage range ± 10%	9846
Duty cycle	
40% ED 3 min SD	
Terminals 6,3 x 0,8	
Protection class IP 00	9837
Voltage range +0% / –5%	
Duty cycle	
50% ED 1 min SD	
Terminals 6,3 x 0,8	
Protection class IP 00	

Design acc. to DIN VDE 0580

Further versions on request!

Standard solenoid systems

Voltage and Frequency Solenoid 9846					
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V d.c.	–	9,5 W	9,5 W
Voltage and Frequency Solenoid 9837					
024	00	24 V d.c.	–	11 W	11 W

Electrical details for all solenoid systems

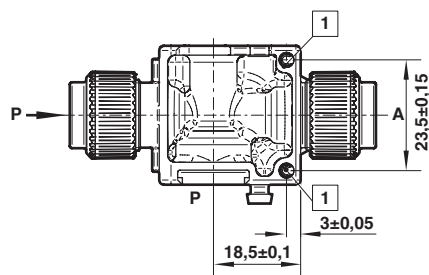
According to DIN VDE 0580 at a solenoid temperature of +20°C (+68°F). At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

Dimensions

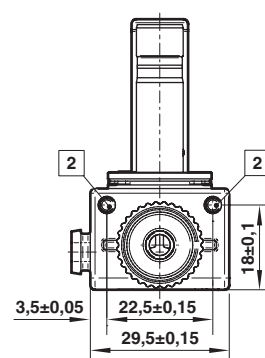
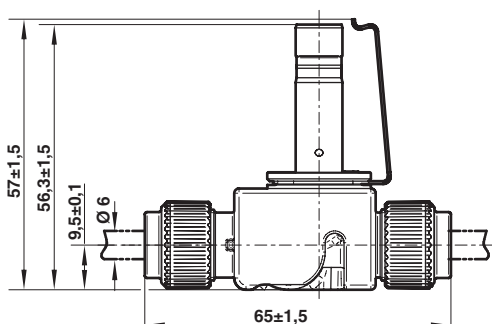
Dimensions in mm
Projection/first angle



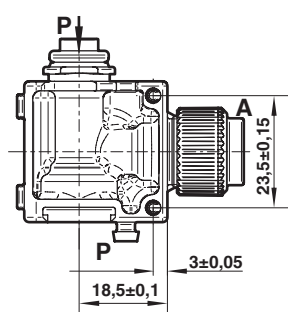
Inlet



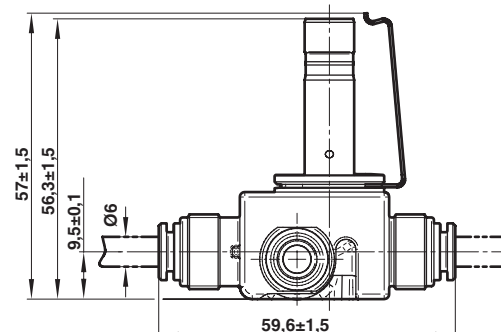
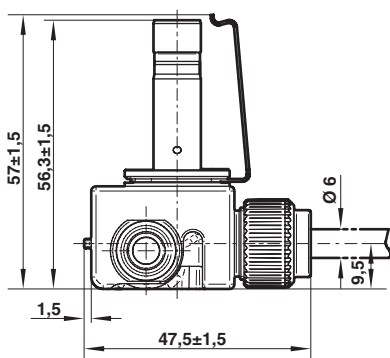
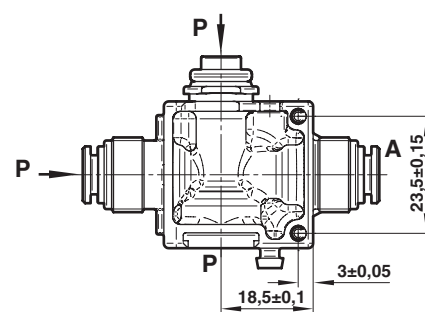
- 1 Mounting holes $\varnothing 2,5 \times 11,5$ mm deep
- 2 Mounting holes $\varnothing 3 \times 9$ mm deep



Middle



Outlet

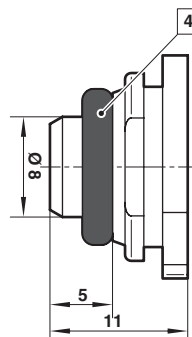
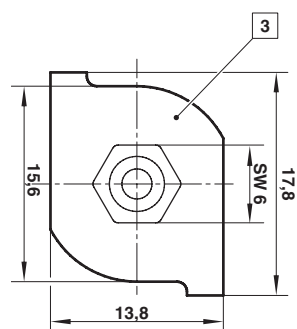


End plug and O-Ring

Please use the O-Ring No. 1702427 separately.

Dimensions in mm

Projection/first angle



1 End plug 1702467

2 O-Ring 1702427

Recommendation:

- max. 7 valves interlinked
- Please fix the interlinked manifold at the beginning and at the end with screw.

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) satisfied.