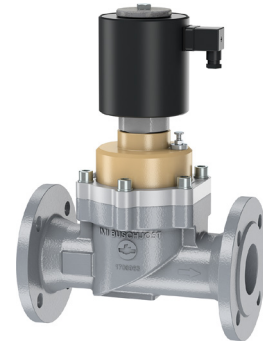


86480

2/2-way piston valves

- > Port size: DN 65 ... 100, Flange connection, Pressure rating PN 16
- > Adjustable: Damped operation
- > Valve operates without differential pressure (Zero delta P)
- > International approvals
- > Valve piston with PTFE guide-ring
- > Suitable for vacuum



Technical features

Medium:

Neutral gases and fluids

Switching function:

Normally closed

Operation:

Solenoid actuated, with forced lifting

Mounting:

Solenoid vertical on top

Flow direction:

Determined

Port size:

DN 65, DN 80, DN 100

Operating pressure:

0 ... 16 bar (0 ... 232 psi)

Fluid temperature:

-20 ... +90°C (-4 ... +194°F)

Ambient temperature:

-20 ... +50°C (-4 ... +122°F)

Material:

Body: Spheroidal graphite iron, brass

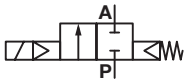
Seat seal: NBR

Cover: Brass

Internal parts: Stainless steel, PTFE/coal

For contaminated fluids insertion of a strainer is recommended.

Technical data – standard models

Symbol	Orifice (mm)	Flow kv value *1) (m³/h)	Operating pressure *2) (bar) (psi)		Weight (kg)	Model Solenoid in V d.c.	Model Solenoid in V a.c.
	65	72	0 ... 16	0 ... 232	30	8648800.9501.xxxxx	8648800.9504.xxxxx
	80	110	0 ... 16	0 ... 232	49	8648900.9501.xxxxx	8648900.9504.xxxxx
	100	125	0 ... 16	0 ... 232	60	8649000.9501.xxxxx	8649000.9504.xxxxx

xxxxx Please insert voltage and frequency codes

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

*2) For gases and liquid fluids up to 40 mm²/s (cSt)

Option selector
864***.*****.*******

Port size	Substitute
DN 65	88
DN 80	89
DN 100	90
Valve options	Substitute
Normally open (NO)	01
Manual override	02
Seat seal FPM, Fluid temperature -10 ... +110°C (+14 ... +230°F)	03
Seat seal PTFE, Fluid temperature -20 ... +110°C (-4 ... +230°F), Leakage rate E acc. to DIN EN 12266-1	06
Seat seal EPDM, Fluid temperature -20 ... +110°C (-4 ... +230°F)	14
Normally open (NO), Seat seal FPM, Fluid temperature -10 ... +110°C (+14 ... +230°F)	17
Electrical position indicator	23
Flanges acc. to ASME B 16.5 150 lb/sq. In.	47

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See table voltage codes	xxx
Solenoid options	Substitute
DN 65 ... 100 Solenoid in V d.c.	9501
DN 65 ... 100 Solenoid in V a.c.	9504

Standard solenoid systems

Voltage and Frequency Solenoid 9501/9504					
Code	Code	Voltage	Frequency	Power consumption	
Voltage	Frequency			Inrush	Holding
024	00	24 V d.c.	-	80 W	80 W
024	49	24 V a.c. *3)	40 ... 60 Hz	89 VA	89 VA
042	49	42 V a.c. *3)	40 ... 60 Hz	89 VA	89 VA
110	49	110 V a.c. *3)	40 ... 60 Hz	89 VA	89 VA
230	49	230 V a.c. *3)	40 ... 60 Hz	89 VA	89 VA

*3) a.c. only with rectifier plug

Further versions on request!
Electrical details for all solenoid systems

Design	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65
Socket	Form A acc. to DIN EN 175301-803 (included)

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.

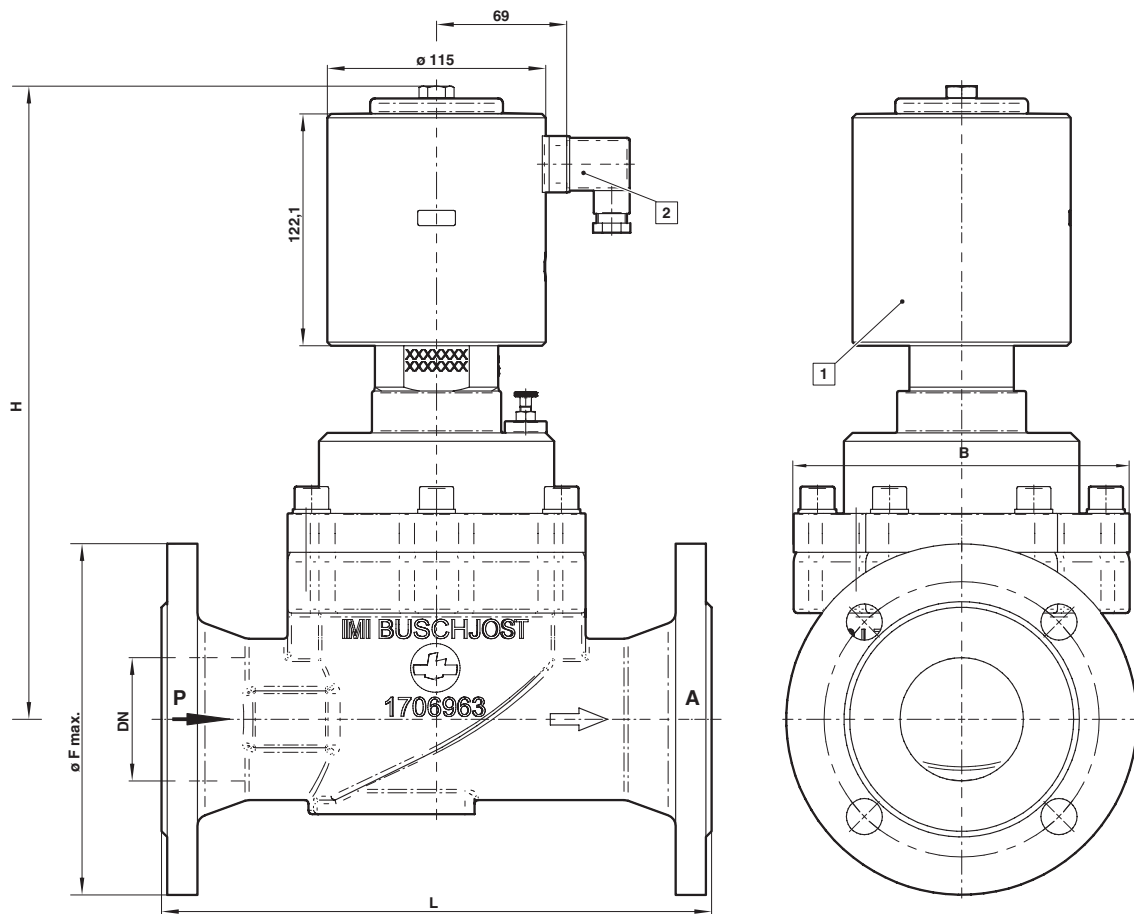
Additional solenoid systems for hazardous areas

ATEX category	Protection class	Solenoid	Standard voltages
II 2G	II 2 G Ex eb mb IIC T3/T4 Gb	9540	24 V d.c., 110 V a.c., 230 V a.c.
II 2D	II 2 D Ex tb IIIC T140°C/T130°C Db		

Attention!

The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids.

Dimensions
DN 65 ... 100

 Dimensions in mm
 Projection/First angle


- 1 Solenoid rotatable 360°
- 2 Socket turnable 4 x 90°
(Socket included)

Orifice (mm)	ø B	H	ø F	L	Model
65	195	340	185	290	8648800.950x.xxxxx
80	220	360	200	310	8648900.950x.xxxxx
100	260	390	220	350	8649000.950x.xxxxx

Contact face acc. to DIN EN 1092-2/B

For valves > DN 25 (G1) Art. 4 § (1) Letter d) applies:

The basic requirements of the Enclosure I of the PED must be fulfilled. The CE-sign at the valve includes the PED. A certificate of conformity of this directive will be available on request.

Note to Electromagnetic Compatibility Guideline (EEC):

In combination with other controlling electrical devices the electromagnetic compatibility of the complete installation must be checked according to the abovementioned directive. It has to be ensured that the requirements of the EN 61000-6-x series of standards are fulfilled for the application.

Note to EAC marking:

The EAC-marked products comply with the applicable requirements stated in the technical regulations of the Eurasian Economic Union.