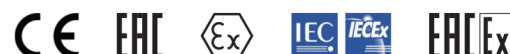


# 86480

## 2/2-way piston valves

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



### 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

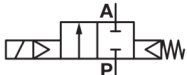
Seat seal: NBR

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) (m <sup>3</sup> /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 mm<sup>2</sup>/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	Voltage	Code	Frequency	Power consumption	
				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**

<b>Design</b>	DIN VDE 0580
<b>Voltage range</b>	±10%
<b>Duty cycle</b>	100% ED
<b>Protection class</b>	EN 60529 IP65
<b>Socket</b>	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.

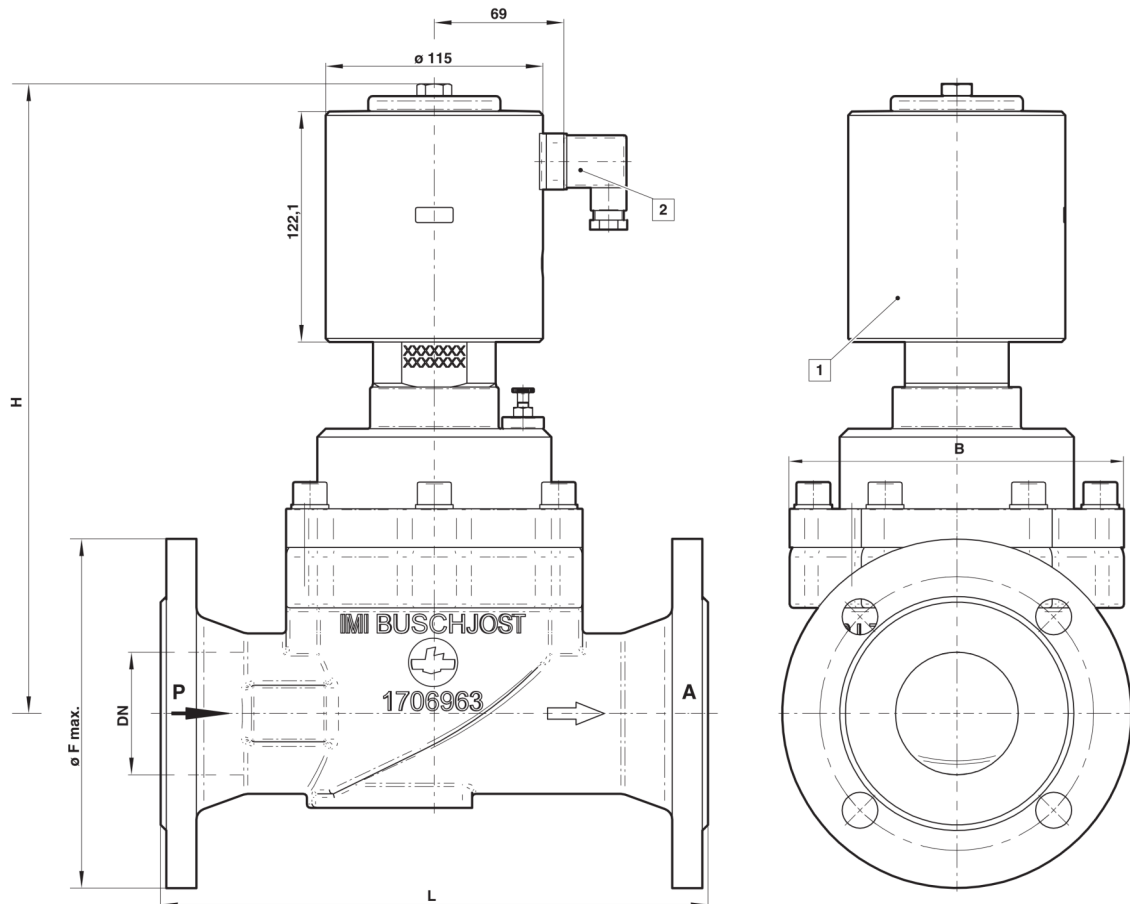
**Additional solenoid systems for hazardous areas**

ATEX category	Protection class	Solenoid	Standard voltages
II 2G II 2D	Ex e mb II T3/T4 Ex tD A21 IP 65 T140°C	9540	24 V d.c., 110 V a.c., 230 V a.c.

**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):**

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.

**Note to EAC marking:**

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