

# Fluid Control

**IMI Buschjost** 

# 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 liquids

Switching function: Normally closed

Operation: Solenoid actuated, with forced lifting

Mounting position: Solenoid vertical on topy

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.

#### Technische Daten – Standard Ausführung

Symbol	Orifice	Flow kv value *1)	Operating pressure *2)		Weight	Model	Model
	(mm)	$(m^3/h)$	(bar)	(psi)	(kg)	Solenoid in V d.c.	Solenoid in V a.c.
A A A A A A A A A A A A A A A A A A A	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

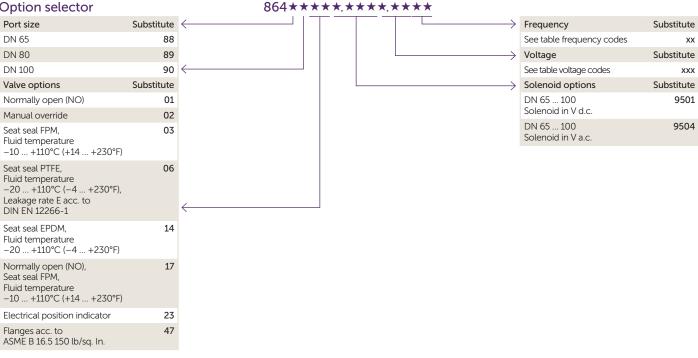
xxxxx Please insert voltage and frequency codes

<sup>\*1)</sup> Cv-value (US)  $\approx$  kv value x 1,2

<sup>\*2)</sup> For gases and liquid fluids up to 40 mm<sup>2</sup>/s (cSt)



#### Option selector



# Standard solenoid systems

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

<sup>\*3)</sup> a.c. only with rectifier plug

# Further versions on request!

# Electrical details for all solenoid systems

Design	DIN VDE 0580
Voltage range	<u>±</u> 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
II 2D	II 2 D Ex tb IIIC T140°C/T130°C Db		a.c., 230 V a.c.

#### Attention!

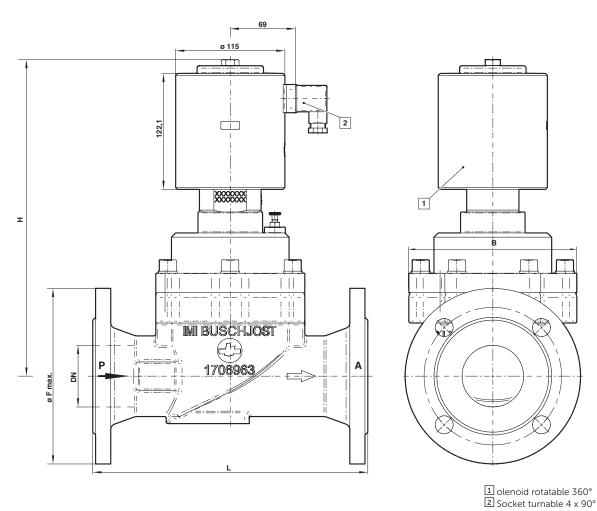
The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids.



Dimensions
DN 65 ... 100

Dimensions in mm Projection/first angle





(Socket included)

Orifice (mm)	ø B	Н	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) satisfield.

#### Note to EAC marking:

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