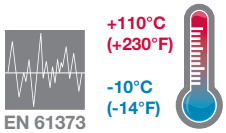
- **Port size: DN 3 ... 8, G1/4 ... 3/8**
- **Small size drain or shut off valve**
- **Direct acting**
- **For aggressive gases and fluids**
- **Seat valves with sealed core tube/media isolated**
- **Unsusceptible to calcification and magnetization of foreign particles**
- **PVDF body**
- **Wide temperature range**
- **Shock and vibration tested to EN 61373, Category 1, class A and B**



Technical features

Medium:
Aggressive gases and fluids
Switching function:
Normally closed
Operation:
Directly solenoid actuated
Type:
Seat valve operating wihout differential pressure

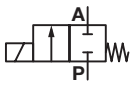
Mounting position:
Optional, preferably solenoid vertical on top
Flow direction:
Determined
Port size:
G1/4, G3/8
Operating pressure:
0 ... 7 bar (0 ... 101 psi)

Fluid temperature:
-10° ... +50°C (+14° ... +122°F)
Ambient temperature:
–10° ... +110°C (+14° ... +230°F)
Storage temperature:
-40°C (-40°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Material:
Body: PVDF
Seat seal: EPDM
Internal parts: PTFE-bellows

For contaminated fluids (particle › 1 mm) insertion of a strainer is recommended.

2/2 way valves

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m^3/h)	Operating pressure *2) (bar)	Weight (kg)	Model Solenoid in V d.c.	Model Solenoid in V a.c.
	G1/4	3	0,23	0 ... 7	0,3	8208000.8050.xxxxx	8208000.8051.xxxxx
	G3/8	3	0,23	0 ... 7	0,3	8208100.8050.xxxxx	8208100.8051.xxxxx
	G1/4	4,5	0,42	0 ... 5	0,3	8208060.8050.xxxxx	8208060.8051.xxxxx
	G3/8	4,5	0,42	0 ... 5	0,3	8208160.8050.xxxxx	8208160.8051.xxxxx
	G1/4	6	0,62	0 ... 2	0,3	8208070.8050.xxxxx	8208070.8051.xxxxx
	G3/8	6	0,62	0 ... 2	0,3	8208170.8050.xxxxx	8208170.8051.xxxxx
	G1/4	8	0,83	0 ... 1	0,3	8208080.8050.xxxxx	8208080.8051.xxxxx
	G3/8	8	0,83	0 ... 1	0,3	8208180.8050.xxxxx	8208180.8051.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 80 mm^2/s (cSt)

Option selector

8208★★★.★★★★.★★★★★

Port size	Substitute
1/4	**0**
3/8	**1**
Orifice (mm)	**Substitute**
3	**0**
4,5	**6**
6	**7**
8	**8**
Valve options	**Substitute**
Seat seal FPM, max. fluid temperature +110°C	**3**
Seat and soft seal PTFE, max. fluid temperature +110°C	**6**

Frequency	Substitute
See table frequency codes	**xx**
Voltage	**Substitute**
See Voltage codes	**xxx**
Solenoid options	**Substitute**
G1/4 ... 3/8 Solenoid in V d.c.	**8050**
G1/4 ... 3/8 Solenoid in V a.c.	**8051**

Standard solenoid systems

Code Voltage	Code Frequency	Voltage	Frequency	Power consumption Inrush	Holding
Voltage and Frequency Solenoid 8050 *1)					
024	00	24 V d.c.	-	12 W	12 W
036	00	36 V d.c.	-	12 W	12 W
110	00	110 V d.c.	-	12 W	12 W
024	49	24 V a.c.	40 … 60 Hz	13 VA	13 VA
110	49	110 V a.c.	40 … 60 Hz	13 VA	13 VA
230	49	230 V a.c.	40 … 60 Hz	13 VA	13 VA
120	49	120 V a.c.	40 … 60 Hz	13 VA	13 VA
220	49	220 V a.c.	40 … 60 Hz	13 VA	13 VA
Voltage and Frequency Solenoid 8051 *1)					
024	00	24 V d.c.	-	12 W	12 W
036	00	36 V d.c.	-	12 W	12 W
110	00	110 V d.c.	-	12 W	12 W
024	49	24 V a.c.	40 … 60 Hz	13 VA	13 VA
110	49	110 V a.c.	40 … 60 Hz	13 VA	13 VA
230	49	230 V a.c.	40 … 60 Hz	13 VA	13 VA
120	49	120 V a.c.	40 … 60 Hz	13 VA	13 VA
220	49	220 V a.c.	40 … 60 Hz	13 VA	13 VA

Note: a.c. achieved by using a rectifier in built with solenoid plug.

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)

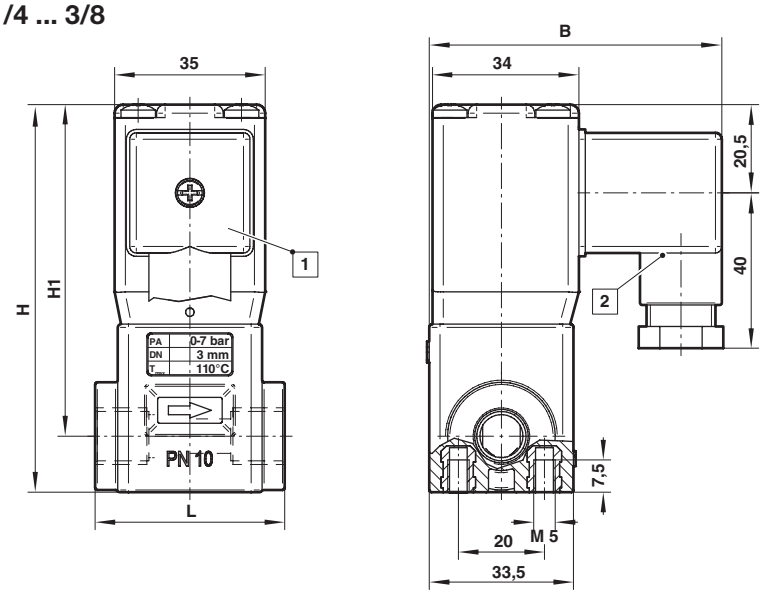
According to DIN VDE 0580 at a solenoid temperature of +20°C.
At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

Further versions on request!

Dimensions

Dimensions in mm
Projection/First angle

G1/4 ... 3/8

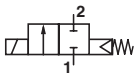


1 Solenoid rotatable 4 x 90°
2 Socket turnable 4 x 90°
(Socket included)

Port size R	Orifice (mm)	B *3)	H	H1	L	Model
G1/4	3	70	90	77	44	8208000.805x.xxxxx
G3/8	3	70	90	77	44	8208100.805x.xxxxx
G1/4	4,5	70	90	77	44	8208060.805x.xxxxx
G3/8	4,5	70	90	77	44	8208160.805x.xxxxx
G1/4	6	70	90	77	44	8208070.805x.xxxxx
G3/8	6	70	90	77	44	8208170.805x.xxxxx
G1/4	8	70	90	77	44	8208080.805x.xxxxx
G3/8	8	70	90	77	44	8208180.805x.xxxxx

*3) max. depth

Special applications

Symbol	Application	Port size	Orifice (mm)	Flow kv value (m^3/h)	Operating pressure (bar)	Fluid temperature	Ambient/ Pilot temperature	Sealing	Voltage (V d.c.)	Model
	Pump drain	G3/8	2,4	0,15	0 … 5.5	0 ... +90°C	-30 ... +50°C	EPDM	24	8493955.8096.02400
	Pump drain	G3/8	2,4	0,15	0 … 5.5	0 ... +90°C	-30 ... +50°C	EPDM	110	8493955.8096.11000
	Toilet flush tank refill	G1/4	4,5	0,42	0 … 1.5	0 ... +60°C	0 ... +50°C	EPDM	24	8496004.8264.02400
	Hand wash basin tab	G1/4	4,5	0,42	0 … 1	0 ... +60°C	0 ... +50°C	EPDM	24	8496027.8087.02400
	Hand wash basin tab	G1/4	4,5	0,42	0 … 1	0 ... +60°C	0 ... +50°C	EPDM	36	8496027.8087.03600

Warning

These products are intended for use in industrial compressed air and rail transport systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.
Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI BUSCHJOST.
Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.
System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.