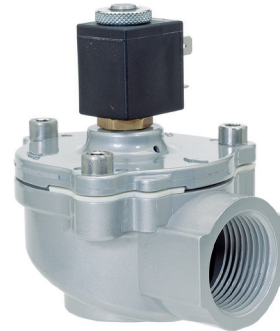


82960/82960 2/2-way diaphragm valves – small solenoid system

- Port size: DN 20 ... 80, 3/4 ... 3 (ISO G/NPT)
- High flow rate
- Simple compact design
- One-piece diaphragm
- International approvals



Technical features

Medium:
Air

Switching function:
Normally closed

Flow direction:
Determined

Mounting position:
Optional, preferably solenoid vertical on top

Port size:
G3/4, G1, G1 1/2, G2, G2 1/2, G3, 3/4 NPT, 1 NPT, 1 1/2 NPT, 2 NPT, 2 1/2 NPT, 3 NPT

Operating pressure:
0,4 ... 7 bar (5,8 ... 101 psi)

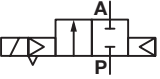
Dusty gas temperature:
–20 ... +85°C (–4 ... +185°F)

Cleaning gas temperature:
–40 ... +85°C (–40 ... +185°F)

Ambient temperature:
–20 ... +85°C (–4 ... +185°F)

Material:
Body: Aluminium
Seat seal: TPE
Internal parts: NBR

Technical data – standard models

Symbol	Port size	Orifice (mm)	Valve length (mm)	Flow kv value *1) (m³/h)	Operating pressure (bar) (psi)		Weight (kg)	Model
	G3/4	20	95	18	0,4 ... 7	5,8 ... 101	0,4	8296300.8274.xxxxx
	3/4 NPT	20	95	18	0,4 ... 7	5,8 ... 101	0,4	8297300.8274.xxxxx
	G1	25	95	22	0,4 ... 7	5,8 ... 101	0,37	8296400.8274.xxxxx
	1 NPT	25	95	22	0,4 ... 7	5,8 ... 101	0,37	8297400.8274.xxxxx
	G1 1/2	40	135	59	0,4 ... 7	5,8 ... 101	0,98	8296600.8274.xxxxx
	1 1/2 NPT	40	135	59	0,4 ... 7	5,8 ... 101	0,98	8297600.8274.xxxxx
	G2	50	169	80	0,4 ... 7	5,8 ... 101	1,82	8296700.8274.xxxxx
	2 NPT	50	169	80	0,4 ... 7	5,8 ... 101	1,82	8297700.8274.xxxxx
	G2 1/2	65	169	93	0,4 ... 7	5,8 ... 101	2,1	8296800.8274.xxxxx
	2 1/2 NPT	65	169	93	0,4 ... 7	5,8 ... 101	2,1	8297800.8274.xxxxx
	G3	80	239,5	172	0,4 ... 7	5,8 ... 101	3,7	8296900.8274.xxxxx
	3 NPT	80	239,5	172	0,4 ... 7	5,8 ... 101	3,7	8297900.8274.xxxxx

xxxxx Please insert voltage and frequency codes

*1) Cv-value (US) ≈ kv value x 1,2

Option selector

Thread form	Substitute
ISO G	6
NPT	7
Port size	Substitute
3/4	3
1	4
1 1/2	6
2	7
2 1/2	8
3 (only ISO G)	9
Valve options	Substitute
Flange version without valve body	54
Dusty gas temperature version -20 ... +100°C (-4 ... +212°F), Seat seal TPE, Ambient temperature -40 ... +85°C (-40 ... +185°F), Cleaning gas temperature -20 ... +85°C (-4 ... +185°F)	62

829*****.8274.*****

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See table voltage codes	xxx
Valve options	Substitute
Dusty gas temperature version -20 ... +140°C (-4 ... +284°F), Seat seal TPE, Ambient temperature -40 ... +85°C (-40 ... +185°F), Cleaning gas temperature -20 ... +85°C (-4 ... +185°F)	63

Standard solenoid systems

Voltage and Frequency Solenoid 8274					
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V d.c.	-	25 W	25 W
024	50	24 V a.c.	50 Hz	21 VA	16 VA
110	50	110 V a.c.	50 Hz	21 VA	16 VA
120	60	120 V a.c.	60 Hz	21 VA	16 VA
230	50	230 V a.c.	50 Hz	21 VA	16 VA

Electrical details for all solenoid systems

Design	DIN VDE 0580
Voltage range	±10%
Duty cycle	10% duty cycle, cycle time ≤ 1 sec.
Protection class	EN 60529 IP00 connected with socket
Socket	Form B acc. to DIN EN 175301-803 IP65

According to DIN VDE 0580 at a coil temperature of +20°C.
In operation the power consumption of the solenoid decreases by approx. 30%.

Dimensions

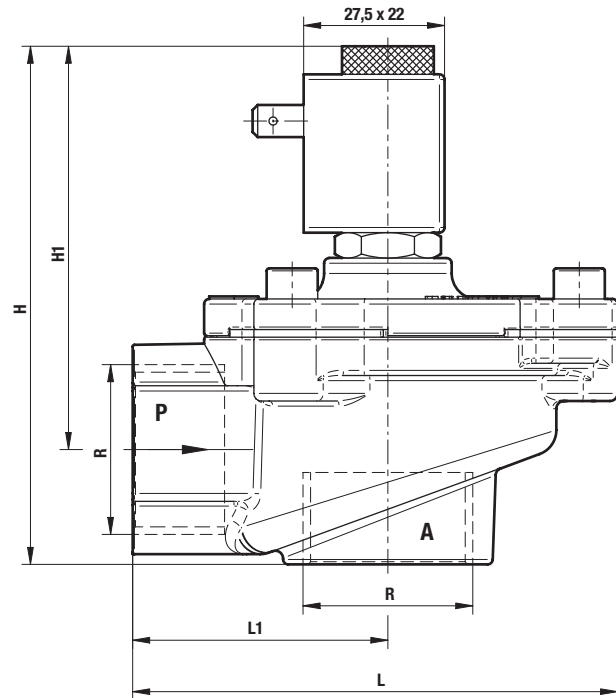
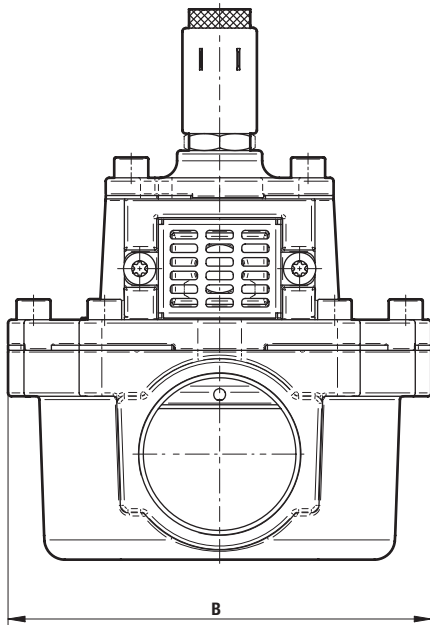
G3/4 ... 1
3/4 ... 1 NPT

G1 1/2 ... 3
1 1/2 ... 2 1/2 NPT

Dimensions in mm
Projection/first angle



Solenoid rotatable 360°



Port size R	A	B	H	H1	L	L1	T	Model
G3/4	34	80	105,5	83	95	50	16	8296300.8274.xxxxx
3/4 NPT	34	80	105,5	83	95	50	14	8297300.8274.xxxxx
G1	34	80	105,5	83	95	50	18	8296400.8274.xxxxx
1 NPT	34	80	105,5	83	95	50	17	8297400.8274.xxxxx
G1 1/2	34	124,5	166	136	135	70	22	8296600.8274.xxxxx
1 1/2 NPT	34	124,5	166	136	135	70	18	8297600.8274.xxxxx
G2	34	140	190,5	149	170	95	25	8296700.8274.xxxxx
2 NPT	34	140	190,5	149	170	95	18	8297700.8274.xxxxx
G2 1/2	34	140	205,5	160	170	95	25	8296800.8274.xxxxx
2 1/2 NPT	34	140	205,5	160	170	95	24	8297800.8274.xxxxx
G3	34	196	221	169	239,5	143	33	8296900.8274.xxxxx
3 NPT	34	196	221	169	239,5	143	28	8297900.8274.xxxxx

Note to Pressure Equipment Directive (PED):

The valves of this series are according to Art. 4 § 3 of the Pressure Equipment Directive (PED) 2014/68/EU. This means interpretation and production are in accordance to engineers practice wellknown in the member countries. The CE-sign at the valve does not refer to the PED. Thus the declaration of conformity is not longer applicable for this directive.

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.