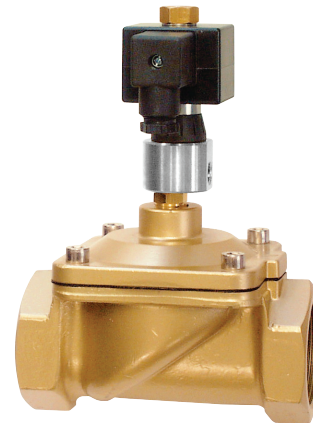


82170/82270

2/2-way diaphragm valves

- > Port size: DN 8 ... 50, G1/4 ... 2 (ISO G/NPT)
- > Compact valve for industrial applications
- > For high contaminated fluids
- > Solenoid hermetically sealed from fluid
- > International approvals
- > Small dimension
- > Vacuum as an option



Technical features

Medium:

Neutral gases and liquid fuels

Pilot fluid:

Air max. +60°C

Switching function:

Normally closed with pilot pressure

Operation:

Pressure actuated by external fluid

Mounting position:

Optional

Flow direction:

Determined

Port size:

G1/4, G3/8, G1/2, G3/4, G1, G1 1/4, G1 1/2, G2 1/4 NPT, 3/8 NPT, 1/2 NPT, 3/4 NPT, 1 NPT, 1 1/4 NPT, 1 1/2 NPT, 2 NPT

Pilot connection:

G1/4 resp. 1/4 NPT

Operating pressure:

0,2 ... 16 bar (2,9 ... 232 psi)

Differential pressure:

0,2 bar (2,9 psi) required

Pilot pressure:

 G1/4 ... 1/2 or 1/4 ... 1/2 NPT
 1 ... 16 bar (14,5 ... 232 psi)
 max. 6 bar higher than operating pressure;
 G3/4 ... 2 or 3/4 ... 2 NPT
 1 ... 16 bar (14,5 ... 232 psi)
 max. 1 bar higher than operating pressure

Fluid temperature:

-10 ... +60°C (+14 ... +140°F)

Ambient temperature:

-10 ... +50°C (+14 ... +122°F)

Material:

Body: Brass

Seals: NBR

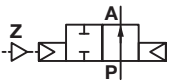
Internal parts: Brass,

Stainless steel

Seat seals: fabric diaphragm

NBR with valve plate

Technische Daten – Standard Ausführung

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m³/h)	Operating pressure *2)		Weight Standard (kg)	Weight Puls Solenoid (kg)	Model Standard	Model Pulse Solenoid
				(bar)	(psi)				
	G1/4	8	1,7	0,2 ... 16	2,9 ... 232	1,32	1,45	8217000.9301.xxxxx	8217000.8821.xxxxx
	1/4 NPT	8	1,7	0,2 ... 16	2,9 ... 232	1,32	1,45	8227000.9301.xxxxx	8227000.8821.xxxxx
	G3/8	10	3,4	0,2 ... 16	2,9 ... 232	1,27	1,4	8217100.9301.xxxxx	8217100.8821.xxxxx
	3/8 NPT	10	3,4	0,2 ... 16	2,9 ... 232	1,27	1,4	8227100.9301.xxxxx	8227100.8821.xxxxx
	G1/2	12	4	0,2 ... 16	2,9 ... 232	1,22	1,35	8217200.9301.xxxxx	8217200.8821.xxxxx
	1/2 NPT	12	4	0,2 ... 16	2,9 ... 232	1,22	1,35	8227200.9301.xxxxx	8227200.8821.xxxxx
	G3/4	20	11	0,2 ... 16	2,9 ... 232	1,97	2,1	8217300.9301.xxxxx	8217300.8821.xxxxx
	3/4 NPT	20	11	0,2 ... 16	2,9 ... 232	1,97	2,1	8227300.9301.xxxxx	8227300.8821.xxxxx
	G1	25	13	0,2 ... 16	2,9 ... 232	1,82	1,95	8217400.9301.xxxxx	8217400.8821.xxxxx
	1 NPT	25	13	0,2 ... 16	2,9 ... 232	1,82	1,95	8227400.9301.xxxxx	8227400.8821.xxxxx
	G1 1/4	32	28	0,2 ... 16	2,9 ... 232	3,17	3,2	8217500.9301.xxxxx	8217500.8821.xxxxx
	1 1/4 NPT	32	28	0,2 ... 16	2,9 ... 232	3,17	3,2	8227500.9301.xxxxx	8227500.8821.xxxxx
	G1 1/2	40	31	0,2 ... 16	2,9 ... 232	2,92	3	8217600.9301.xxxxx	8217600.8821.xxxxx
	1 1/2 NPT	40	31	0,2 ... 16	2,9 ... 232	2,92	3	8227600.9301.xxxxx	8227600.8821.xxxxx
	G2	50	46	0,2 ... 16	2,9 ... 232	4,17	4,3	8217700.9301.xxxxx	8217700.8821.xxxxx
	2 NPT	50	46	0,2 ... 16	2,9 ... 232	4,17	4,3	8227700.9301.xxxxx	8227700.8821.xxxxx

xxxxx Please insert voltage and frequency codes

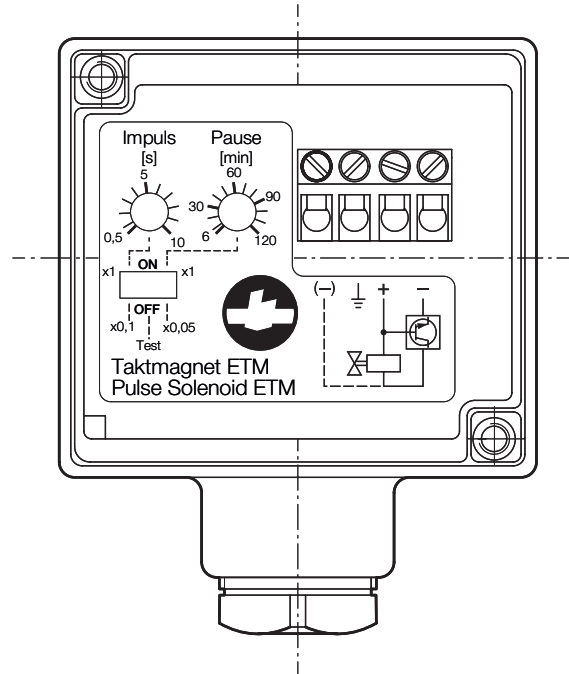
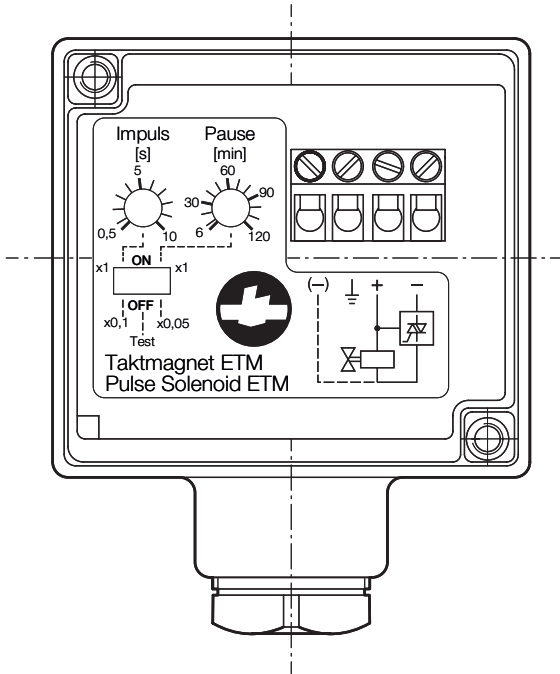
*1) Cv-value (US) = kv-value x 1,2

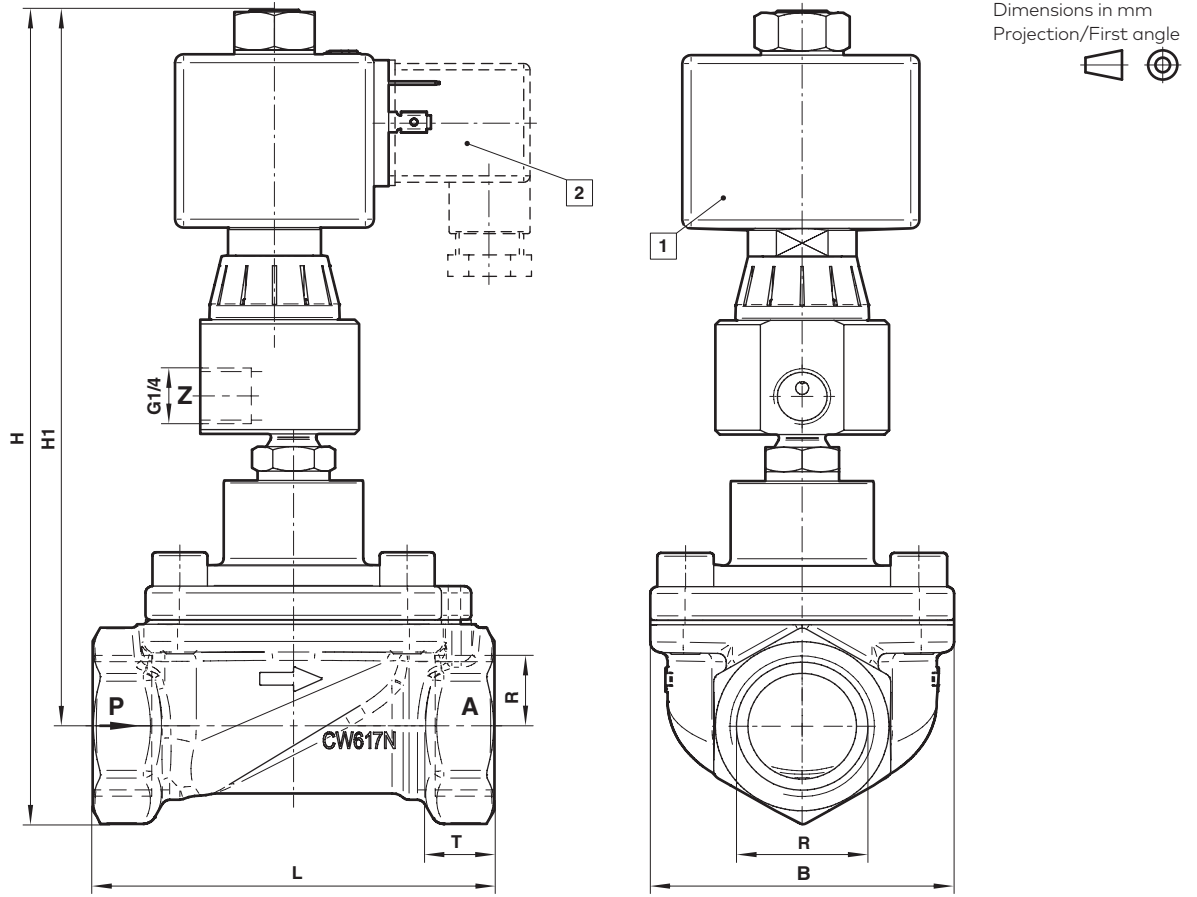
*2) For gases and liquid fluids up to 80 mm²/s (cSt)

Pulse Solenoid

★★★★★.8821 a.c.

★★★★★.8821 d.c.



Dimensions
G1/4 ... 2
1/4 ... 2 NPT

 Dimensions in mm
 Projection/First angle


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

Port size	B *4)	H	H1	L	Model
G1/4	44	158	143	67	8217000.9301.xxxxx
1/4 NPT	44	158	143	67	8227000.9301.xxxxx
G3/8	44	158	143	67	8217100.9301.xxxxx
3/8 NPT	44	158	143	67	8227100.9301.xxxxx
G1/2	44	158	143	67	8217200.9301.xxxxx
1/2 NPT	44	158	143	67	8227200.9301.xxxxx
G3/4	70	191	167	95	8217300.9301.xxxxx
3/4 NPT	70	191	167	95	8227300.9301.xxxxx
G1	70	191	167	95	8217400.9301.xxxxx
1 NPT	70	191	167	95	8227400.9301.xxxxx
G 1 1/4	96	213	180	132	8217500.9301.xxxxx
1 1/4 NPT	96	213	180	132	8227500.9301.xxxxx
G1 1/2	96	213	180	132	8217600.9301.xxxxx
1 1/2 NPT	96	213	180	132	8227600.9301.xxxxx
G2	112	231	291	160	8217700.9301.xxxxx
2 NPT	112	231	291	160	8227700.9301.xxxxx

*4) max. depth

Note to Pressure Equipment Directive (PED):

The valves of this series up to and including DN 25 (G1) 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.

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.