

# 82610/84620

## 2/2-way seat valves

- > Port size: DN 1,5 ... 5, 1/8 ... 3/8 (ISO G/NPT)
- > Suitable for vacuum
- > High flow rate
- > Functional compact design
- > Body with M5 fastening thread as standard
- > Solenoid interchangeable without tools (Click-on®)
- > Valve operates without pressure differential
- > International approvals



### Technical features

**Medium:**

Neutral and slightly aggressive gases and liquid fluids

**Switching function:**

Normally closed

**Operation:**

Directly solenoid actuated

**Mounting position:**

Optional, preferably solenoid vertical on top

**Flow direction:**

Determined

**Port size:**

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

**Operating pressure:**

0 ... 40 bar (0 ... 580 psi)

**Fluid temperature:**

-10 ... +110°C (+14 ... 230°F)

**Ambient temperature:**

-10 ... +50°C (+14 ... +122°F)

**Material:**

Body: Stainless steel (1.4408)

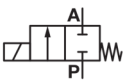
Seat seal: FPM

(70 bar version - PTFE)

Internal parts: Stainless steel

For contaminated fluids insertion of a strainer is recommended.

**Technical data – standard models – Valves normally closed**

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m <sup>3</sup> /h)	Operating pressure )		Weight (kg)	Typ	
				(bar)	(psi)		Solenoid in V d.c.	Solenoid in V a.c.
	G1/8	1,5	0,07	0 ... 25	0 ... 362	0,33	8261803.9101.xxxxx	8261803.9104.xxxxx
	1/8 NPT	1,5	0,07	0 ... 25	0 ... 362	0,33	8462803.9101.xxxxx	8462803.9104.xxxxx
	G1/4	1,5	0,07	0 ... 25	0 ... 362	0,33	8261003.9101.xxxxx	8261003.9104.xxxxx
	1/4 NPT	1,5	0,07	0 ... 25	0 ... 362	0,33	8462003.9101.xxxxx	8462003.9104.xxxxx
	G3/8	1,5	0,07	0 ... 25	0 ... 362	0,33	8261103.9101.xxxxx	8261103.9104.xxxxx
	3/8 NPT	1,5	0,07	0 ... 25	0 ... 362	0,33	8462103.9101.xxxxx	8462103.9104.xxxxx
	G1/8	1,5	0,07	0 ... 70	0 ... 1015	0,57	8261807.9151.xxxxx	8261807.9154.xxxxx
	1/8 NPT	1,5	0,07	0 ... 70	0 ... 1015	0,57	8462807.9151.xxxxx	8462807.9154.xxxxx
	G1/4	1,5	0,07	0 ... 70	0 ... 1015	0,57	8261007.9151.xxxxx	8261007.9154.xxxxx
	1/4 NPT	1,5	0,07	0 ... 70	0 ... 1015	0,57	8462007.9151.xxxxx	8462007.9154.xxxxx
	G3/8	1,5	0,07	0 ... 70	0 ... 1015	0,57	8261107.9151.xxxxx	8261107.9154.xxxxx
	3/8 NPT	1,5	0,07	0 ... 70	0 ... 1015	0,57	8462107.9151.xxxxx	8462107.9154.xxxxx
	G1/8	2,5	0,15	0 ... 10	0 ... 145	0,33	8261823.9101.xxxxx	8261823.9104.xxxxx
	1/8 NPT	2,5	0,15	0 ... 10	0 ... 145	0,33	8462823.9101.xxxxx	8462823.9104.xxxxx
	G1/4	2,5	0,15	0 ... 10	0 ... 145	0,33	8261023.9101.xxxxx	8261023.9104.xxxxx
	1/4 NPT	2,5	0,15	0 ... 10	0 ... 145	0,33	8462023.9101.xxxxx	8462023.9104.xxxxx
	G3/8	2,5	0,15	0 ... 10	0 ... 145	0,33	8261123.9101.xxxxx	8261123.9104.xxxxx
	3/8 NPT	2,5	0,15	0 ... 10	0 ... 145	0,33	8462123.9101.xxxxx	8462123.9104.xxxxx
	G1/8	2,5	0,15	0 ... 40	0 ... 580	0,57	8261823.9151.xxxxx	8261823.9154.xxxxx
	1/8 NPT	2,5	0,15	0 ... 40	0 ... 580	0,57	8462823.9151.xxxxx	8462823.9154.xxxxx
	G1/4	2,5	0,15	0 ... 40	0 ... 580	0,57	8261023.9151.xxxxx	8261023.9154.xxxxx
	1/4 NPT	2,5	0,15	0 ... 40	0 ... 580	0,57	8462023.9151.xxxxx	8462023.9154.xxxxx
	G3/8	2,5	0,15	0 ... 40	0 ... 580	0,57	8261123.9151.xxxxx	8261123.9154.xxxxx
	3/8 NPT	2,5	0,15	0 ... 40	0 ... 580	0,57	8462123.9151.xxxxx	8462123.9154.xxxxx

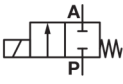
xxxx Please insert voltage and frequency codes

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

\*2) For gases and liquid fluids up to 25 mm<sup>2</sup>/s (cSt)

G1/4 ... 1 max. 16 bar on request

**Technical data – standard models – Valves normally closed**

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m <sup>3</sup> /h)	Operating pressure )		Weight (kg)	Typ	
				(bar)	(psi)		Solenoid in V d.c.	Solenoid in V a.c.
	G1/8	3	0,21	0 ... 4	0 ... 58	0,33	8261843.9101.xxxxx	8261843.9104.xxxxx
	1/8 NPT	3	0,21	0 ... 4	0 ... 58	0,33	8462843.9101.xxxxx	8462843.9104.xxxxx
	G1/4	3	0,21	0 ... 4	0 ... 58	0,33	8261043.9101.xxxxx	8261043.9104.xxxxx
	1/4 NPT	3	0,21	0 ... 4	0 ... 58	0,33	8462043.9101.xxxxx	8462043.9104.xxxxx
	G3/8	3	0,21	0 ... 4	0 ... 58	0,33	8261143.9101.xxxxx	8261143.9104.xxxxx
	3/8 NPT	3	0,21	0 ... 4	0 ... 58	0,33	8462143.9101.xxxxx	8462143.9104.xxxxx
	G1/8	3	0,21	0 ... 20	0 ... 290	0,57	8261843.9151.xxxxx	8261843.9154.xxxxx
	1/8 NPT	3	0,21	0 ... 20	0 ... 290	0,57	8462843.9151.xxxxx	8462843.9154.xxxxx
	G1/4	3	0,21	0 ... 20	0 ... 290	0,57	8261043.9151.xxxxx	8261043.9154.xxxxx
	1/4 NPT	3	0,21	0 ... 20	0 ... 290	0,57	8462043.9151.xxxxx	8462043.9154.xxxxx
	G3/8	3	0,21	0 ... 20	0 ... 290	0,57	8261143.9151.xxxxx	8261143.9154.xxxxx
	3/8 NPT	3	0,21	0 ... 20	0 ... 290	0,57	8462143.9151.xxxxx	8462143.9154.xxxxx
	G1/8	4	0,35	0 ... 12	0 ... 174	0,57	8261863.9151.xxxxx	8261863.9154.xxxxx
	1/8 NPT	4	0,35	0 ... 12	0 ... 174	0,57	8462863.9151.xxxxx	8462863.9154.xxxxx
	G1/4	4	0,35	0 ... 12	0 ... 174	0,57	8261063.9151.xxxxx	8261063.9154.xxxxx
	1/4 NPT	4	0,35	0 ... 12	0 ... 174	0,57	8462063.9151.xxxxx	8462063.9154.xxxxx
	G3/8	4	0,35	0 ... 12	0 ... 174	0,57	8261163.9151.xxxxx	8261163.9154.xxxxx
	3/8 NPT	4	0,35	0 ... 12	0 ... 174	0,57	8462163.9151.xxxxx	8462163.9154.xxxxx
	G1/8	5	0,5	0 ... 6	0 ... 87	0,57	8261883.9151.xxxxx	8261883.9154.xxxxx
	1/8 NPT	5	0,5	0 ... 6	0 ... 87	0,57	8462883.9151.xxxxx	8462883.9154.xxxxx
	G1/4	5	0,5	0 ... 6	0 ... 87	0,57	8261083.9151.xxxxx	8261083.9154.xxxxx
	1/4 NPT	5	0,5	0 ... 6	0 ... 87	0,57	8462083.9151.xxxxx	8462083.9154.xxxxx
	G3/8	5	0,5	0 ... 6	0 ... 87	0,57	8261183.9151.xxxxx	8261183.9154.xxxxx
	3/8 NPT	5	0,5	0 ... 6	0 ... 87	0,57	8462183.9151.xxxxx	8462183.9154.xxxxx

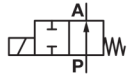
xxxx Please insert voltage and frequency codes

\*3) Cv-value (US) = kv value x 1,2

\*4) For gases and liquid fluids up to 25 mm<sup>2</sup>/s (cSt)

G1/4 ... 1 max. 16 bar on request

**Technical data – standard models – Valves normally open**

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m <sup>3</sup> /h)	Operating pressure )		Weight (kg)	Typ	
				(bar)	(psi)		Solenoid in V d.c.	Solenoid in V a.c.
	G1/4	1,5	0,07	0 ... 16	0 ... 232	0,33	8261001.9101.xxxxx	8261001.9104.xxxxx
	1/4 NPT	1,5	0,07	0 ... 16	0 ... 232	0,33	8462001.9101.xxxxx	8462001.9104.xxxxx
	G1/4	2,5	0,15	0 ... 6	0 ... 87	0,33	8261021.9101.xxxxx	8261021.9104.xxxxx
	1/4 NPT	2,5	0,15	0 ... 6	0 ... 87	0,33	8462021.9101.xxxxx	8462021.9104.xxxxx
	G1/4	2,5	0,15	0 ... 25	0 ... 362	0,57	8261021.9151.xxxxx	8261021.9154.xxxxx
	1/4 NPT	2,5	0,15	0 ... 25	0 ... 362	0,57	8462021.9151.xxxxx	8462021.9154.xxxxx
	G1/4	3	0,21	0 ... 3	0 ... 43	0,33	8261041.9101.xxxxx	8261041.9104.xxxxx
	1/4 NPT	3	0,21	0 ... 3	0 ... 43	0,33	8462041.9101.xxxxx	8462041.9104.xxxxx
	G1/4	3	0,21	0 ... 16	0 ... 232	0,57	8261041.9151.xxxxx	8261041.9154.xxxxx
	1/4 NPT	3	0,21	0 ... 16	0 ... 232	0,57	8462041.9151.xxxxx	8462041.9154.xxxxx
	G1/4	4	0,35	0 ... 8	0 ... 116	0,57	8261061.9151.xxxxx	8261061.9154.xxxxx
	1/4 NPT	4	0,35	0 ... 8	0 ... 116	0,57	8462061.9151.xxxxx	8462061.9154.xxxxx

xxxxx Please insert voltage and frequency codes

\*5) Cv-value (US) ≈ kv value x 1,2

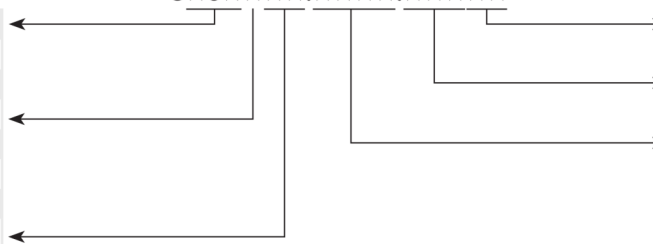
\*6) For gases and liquid fluids up to 25 mm<sup>2</sup>/s (cSt)

G1/4 ... 1 max. 16 bar on request

**Option selector**
**8★6★☆☆☆☆★☆☆☆☆★☆☆☆☆**

Thread form	Substitute
ISO G	1
NPT	2
Port size	Substitute
1/8	8
1/4	0
3/8	1
Valve options	Substitute
Normally open (NO), DN 1,5 Operating pressure 0 ... 16 bar (0 ... 232 psi)	01
Normally closed (NC), DN 1,5 Operating pressure 0 ... 25 bar (0 ... 362 psi)	03
Seat seal PTFE Normally closed (NC), DN 1,5 Operating pressure 0 ... 70 bar (0 ... 1015 psi)	07
Normally open (NO), DN 2,5 Operating pressure 0 ... 6 bar (0 ... 87 psi) (with solenoid 9101)	21
Normally open (NO), DN 2,5 Operating pressure 0 ... 25 bar (0 ... 362 psi) (with solenoid 9151)	21
Normally closed (NC), DN 2,5 Operating pressure 0 ... 10 bar (0 ... 145 psi) (with solenoid 9101)	23
Normally closed (NC), DN 2,5 Operating pressure 0 ... 40 bar (0 ... 580 psi) (with solenoid 9151)	23
Normally open (NO), DN 3 Operating pressure 0 ... 3 bar (0 ... 43 psi) (with solenoid 9101)	41
Normally open (NO), DN 3 Operating pressure 0 ... 16 bar (0 ... 232 psi) (with solenoid 9151)	41
Normally closed (NC), DN 3 Operating pressure 0 ... 4 bar (0 ... 58 psi) (with solenoid 9101)	43
Normally closed (NC), DN 3 Operating pressure 0 ... 20 bar (0 ... 290 psi) (with solenoid 9151)	43
Normally open (NO), DN 4 Operating pressure 0 ... 8 bar (0 ... 116 psi) (with solenoid 9151)	61
Normally closed (NC), DN 4 Operating pressure 0 ... 12 bar (0 ... 174 psi) (with solenoid 9151)	63
Normally closed (NC), DN 5 Operating pressure 0 ... 6 bar (0 ... 87 psi) (with solenoid 9151)	83

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See table voltage codes	xxx
Solenoid options	Substitute
Solenoid 9101	9101
Solenoid 9151	9151



**Standard solenoid systems**

Voltage and Frequency Solenoid 9101 / 9104					
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V DC	-	8 W	8 W
024	49	24 V AC *7)	40 ... 60 Hz	9 VA	9 VA
110	49	110 V AC *7)	40 ... 60 Hz	9 VA	9 VA
120	49	120 V AC *7)	40 ... 60 Hz	9 VA	9 VA
230	49	230 V AC *7)	40 ... 60 Hz	9 VA	9 VA
Voltage and Frequency Solenoid 9151 / 9154					
024	00	24 V DC	-	18 W	18 W
024	49	24 V AC *7)	40 ... 60 Hz	20 VA	20 VA
110	49	110 V AC *7)	40 ... 60 Hz	20 VA	20 VA
120	49	120 V AC *7)	40 ... 60 Hz	20 VA	20 VA
230	49	230 V AC *7)	40 ... 60 Hz	20 VA	20 VA

\*7) 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.

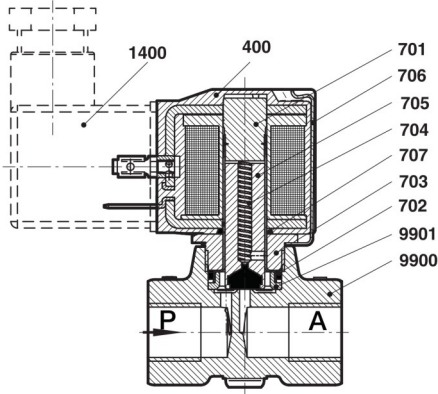
At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

**Additional solenoid systems for hazardous areas**

ATEX category	ATEX protection class	IP protection class	Solenoid	Standard voltages
II 2G II 2D	Ex eb mb IIC T4 Gb Ex mb tb IIIB T125°C Db	IP66	6106	24 V d.c., 110 V a.c., 230 V a.c.
II 2G II 2D	Ex eb mb IIC T4 Gb Ex mb tb IIIB T125°C Db	IP66	6126	24 V d.c., 110 V a.c., 230 V a.c.
II 3G II 3D	Ex ec IIC T4 Gc Ex tc IIIC T130°C Dc	IP65	9116	24 V d.c., 110 V a.c., 230 V a.c.
I 3G II 3D	Ex ec IIC T4 Gc Ex tc IIIC T130°C Dc	IP65	9176	24 V d.c., 110 V a.c., 230 V a.c.

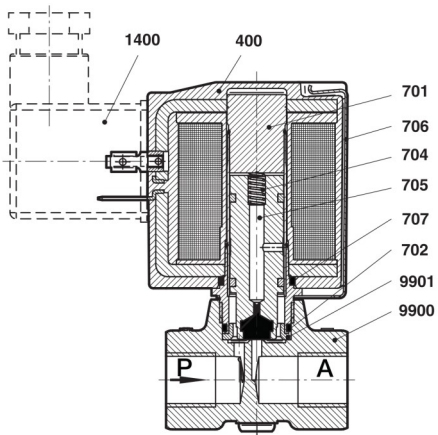
**Attention!**

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

**Section View**
**G1/8 ... 3/8  
Solenoid 9101**


No.	Description
400	Solenoid
701	Core tube
*702	O-ring
703	Screw piece
*704	Pressure spring
*705	Core
706	Spring clip
*707	O-ring
1400	Socket (included)
9900	Valve body
9901	Spacer

\* These individual parts form a complete wearing unit.  
When ordering spare parts please state Model No. and Series No.

**G1/8 ... 3/8  
Solenoid 9151**


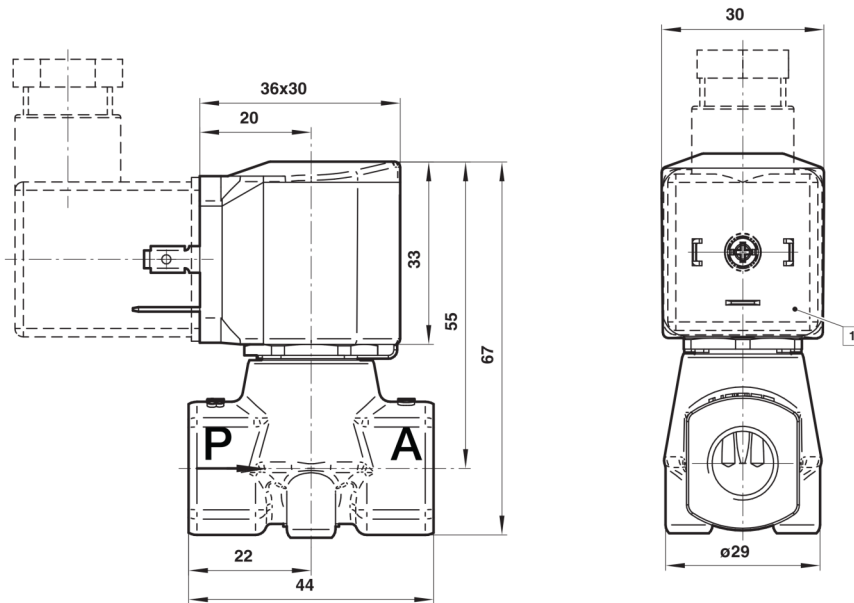
No.	Description
400	Solenoid
701	Core tube
*702	O-ring
*704	Pressure spring
*705	Core
706	Spring clip
*707	O-ring
1400	Socket (included)
9900	Valve body
9901	Spacer

\* These individual parts form a complete wearing unit.  
When ordering spare parts please state Model No. and Series No.

**Dimensions**

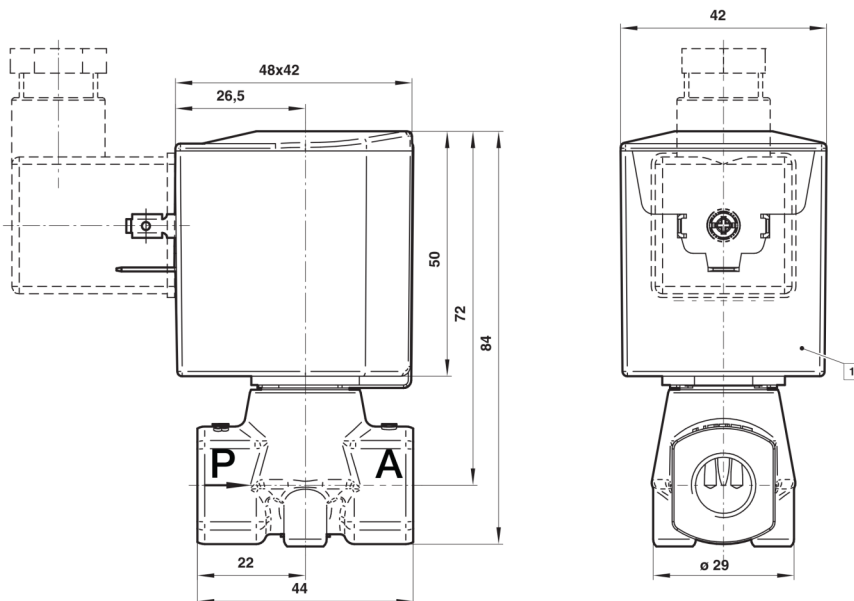
**Solenoid 9101**

Dimensions in mm  
Projection/First angle



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

**Solenoid 9151**



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

**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.

**Note to EAC marking:**

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