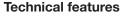


- > Port size: DN 12 ... 50, G1/2 ... 2
- Valve works without minimum pressure differential
- > Up to 16 bar backpressure tight with leak rate E according to DIN EN 12266-1
- > International approvals



Medium:

For slightly aggressive fluids **Switching function:**

Normally closed; no switching function at back pressure

Operation:

Solenoid actuated, with forced lifting

Mounting:

Solenoid vertical on top

Flow direction:

Determined

Port size:

G1/2, G3/4, G1, G1 1/4, G1 1/2, G2

Ambien

Operating pressure: P > A: 0 ... 25 bar (0 ... 362 psi)

A > P: 0 ... 16 bar (0 ... 232 psi) backpressure tight

Fluid temperature:

−10 ... +90°C (+32 ... +194°F)

Ambient temperature:

−10 ... +50°C (+32 ... +122°F)















Materials:

Body: Stainless Steel (1.4408) Seat seal: NBR Internal parts: Stainless steel, PTFE/Carbon

For contaminated fluids the use of a strainer upstream of the valve is recommended.

Technical data - standard models

Symbol	Port size	Orifice (mm)	Flow kv-value *1) (m ³ /h)	Operating (bar)	pressure *2) (psi)	Weight (kg)	Model Solenoid in DC	Model Solenoid in AC
	G1/2	12	4.4	0 25	0 362	2,5	8544200.8401.xxxxx *3)	8544200.8404.xxxxx *3)
A ₩	G3/4	20	7,0	0 25	0 362	2,7	8544300.8401.xxxxx	8544300.8404.xxxxx
	G1	25	10,5	0 25	0 362	3,1	8544400.8401.xxxxx	8544400.8404.xxxxx
	G1 1/4	32	25,0	0 25	0 362	5,6	8544500.9501.xxxxx	8544500.9504.xxxxx
P	G1 1/2	40	27,0	0 25	0 362	5,4	8544600.9501.xxxxx	8544600.9504.xxxxx
	G2	50	43,0	0 25	0 362	6,8	8544700.9501.xxxxx	8544700.9504.xxxxx

xxxxx Please insert voltage and frequency codes



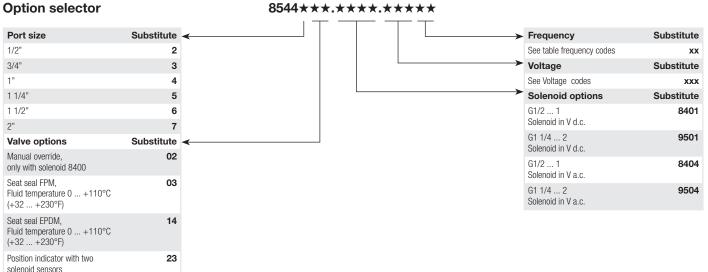
^{*1)} Cv-value (US) ≈ kv value x 1,2

^{*2)} for gases and liquid fluids up to 25 mm²/s (cSt) up to 80 mm²/s (cSt) on request

^{*3)} manifold of Stainless steel (1.4305)



Option selector



Standard solenoid systems

Voltage and Frequency Solenoid 8401 / 8404								
Code	Code	Voltage	Frequency	Power consumption				
Voltage	Frequency			Inrush	Holding			
024	00	24 V d.c.	-	40 W	40 W			
024	49	24 V a.c.	40 60 Hz	45 VA	45 VA			
110	49	110 V a.c.	40 60 Hz	45 VA	45 VA			
120	49	120 V a.c.	40 60 Hz	45 VA	45 VA			
220	49	220 V a.c.	40 60 Hz	45 VA	45 VA			
230	49	230 V a.c.	40 60 Hz	45 VA	45 VA			
Voltage and Frequency Solenoid 9501 / 9504								
024	00	24 V d.c.	-	80 W	80 W			
024	49	24 V a.c.	40 60 Hz	89 VA	89 VA			
110	49	110 V a.c.	40 60 Hz	89 VA	89 VA			
120	49	120 V a.c.	40 60 Hz	89 VA	89 VA			
220	49	220 V a.c.	40 60 Hz	89 VA	89 VA			
230	49	230 V a.c.	40 60 Hz	89 VA	89 VA			

Further options on request!

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 (+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	ATEX protection class	IP protetion class	Solenoid	Standard voltages
II 3G II 3D	Ex ec IIC T4 Gc Ex tc IIIC T130°C Dc *4)	IP65	8426	24 V d.c., 110 V a.c., 230 V a.c.
II 2G	Ex d IIC T4/T5 Ex tD A21 IP65 T130°C or T95°C	IP65	8920	24 V d.c., 110 V a.c., 230 V a.c.
II 2G II 2D	Ex e mb II T3/T4 Ex tD A21 IP65 T140°C	IP65	9540	24 V d.c., 110 V a.c., 230 V a.c.
2G 2D	Ex eb mb IIC T3 Gb Ex mb tb IIIB T140°C Db up to G1	IP66	6240	24 V d.c., 110 V a.c., 230 V a.c.

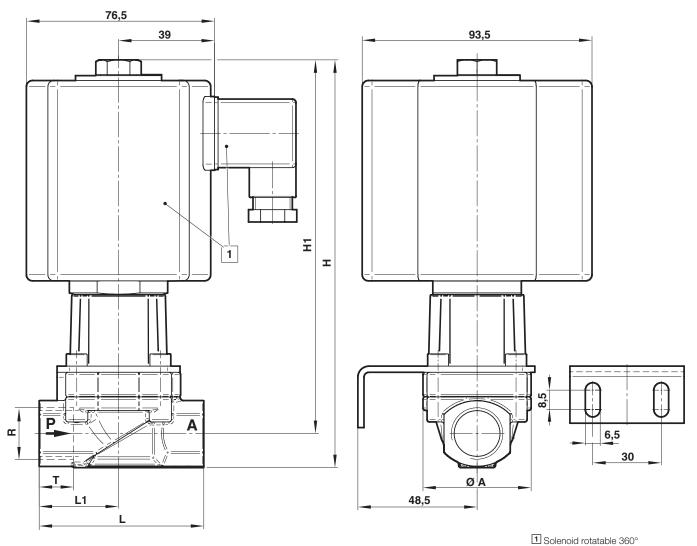
The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids. *4) Only DC, for AC solenoids with design inspection certificate acc. to category 2, e.g. XXXXXX.6240

Dimensions

up to G1

Dimensions in mm Projection/First angle





Connection R	ø A	н	H1	L	L1	т	Туре
G1/2	44	166,5	150	80	40,0	14	8544200.840x.xxxxx *5)
G3/4	50	166,5	150	80	38,6	16	8544300.840x.xxxxx
G1	62	184,0	164	95	45,6	18	8544400.840x.xxxxx

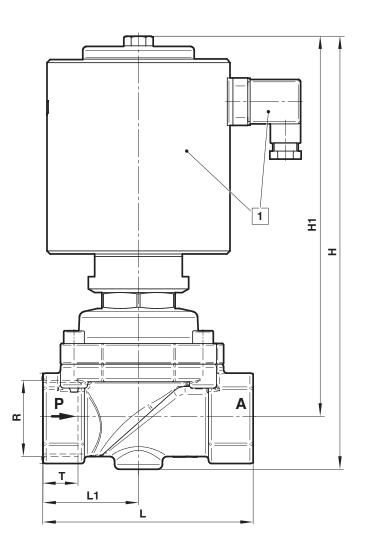
^{*5)} Manifold of Stainless steel (1.4305)

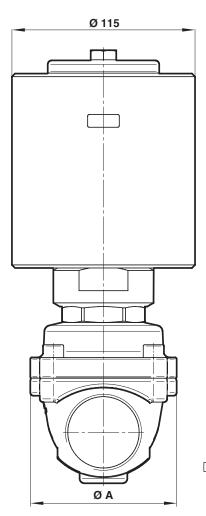
Socket turnable 4 x 90° (Socket included)



Dimensions

from G1 1/4





Dimensions in mm Projection/First angle



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

Connection R	ø A	Н	H1	L	L1	Т	Туре
G1 1/4	92	186,0	253	132	60	20	8544500.950x.xxxxx
G1 1/2	92	286,0	253	132	60	22	8544600.950x.xxxxx
G2	109	N.D.	N.D.	160	74	24	8544700.950x.xxxxx

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.