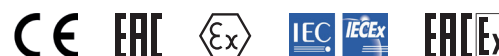


- > Port size: DN 15 ... 50, flange connection
- > Valve works without minimum pressure differential
- > Up to 16 bar backpressure tight with leak rate E according to DIN EN 12266-1
- > International approvals



Technical features

Medium:
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:
DN 15 ... DN 50

Operating pressure:
P > A: 0 ... 25 bar (0 ... 362 psi)
A > P: 0 ... 16 bar, (0 ... 232 psi) backpressure tight

Fluid temperature:
0° ... +90°C (+32° ... +194°F)

Ambient temperature:
0° ... +50°C (+32° ... +122°F)

Material:
Body: Stainless steel (1.4408)
Seat seal: NBR
Internal parts: Stainless steel

For contaminated fluids insertion of a strainer is recommended.

Technical data - standard models

Symbol	Orifice (mm)	Flow kv value *1) (m³/h)	Operating pressure *2) (bar) (psi)		Weight (kg)	Model Solenoid in V d.c.	Model Solenoid in V a.c.
	15	4,4	0 ... 25	0 ... 362	3,8	8534200.8401.xxxxx	8534200.8404.xxxxx
	20	7	0 ... 25	0 ... 362	4,2	8534300.8401.xxxxx	8534300.8404.xxxxx
	25	10,5	0 ... 25	0 ... 362	4,8	8534400.8401.xxxxx	8534400.8404.xxxxx
	32	25	0 ... 25	0 ... 362	9,6	8534500.9501.xxxxx	8534500.9504.xxxxx
	40	27	0 ... 25	0 ... 362	10	8534600.9501.xxxxx	8534600.9504.xxxxx
	50	43	0 ... 25	0 ... 362	11,5	8534700.9501.xxxxx	8534700.9504.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

Option selector

8534★ ★ ★ ★ ★ ★ ★ ★ ★ ★

Port size	Substitute
DN 15	2
DN 20	3
DN 25	4
DN 32	5
DN 40	6
DN 50	7
Valve options	Substitute
Manual override	02
Seat seal FPM, Fluid temperature 0 ... +110°C	03
Seat seal PTFE, Fluid temperature 0 ... +110°C	06
Electrical position indicator with two limit switches	23
Flanges acc. to ASME B 16.5 150 lb/sq.In.	47
Flanges acc. to ASME B 16.5 300 lb/sq.In.	48

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See Voltage codes	xxx
Solenoid options	Substitute
DN 15 ... 25 Solenoid in V d.c.	8401
DN 32 ... 50 Solenoid in V d.c.	9501
DN 15 ... 25 Solenoid in V a.c.	8404
DN 32 ... 50 Solenoid in V a.c.	9504

Standard solenoid systems

Voltage and Frequency Solenoid 8401/8404 *1)					
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V d.c.	-	40 W	40 W
024	49	24 V a.c. *3)	40 ... 60 Hz	45 VA	45 VA
110	49	110 V a.c. *3)	40 ... 60 Hz	45 VA	45 VA
120	49	120 V a.c. *3)	40 ... 60 Hz	45 VA	45 VA
220	49	220 V a.c. *3)	40 ... 60 Hz	45 VA	45 VA
230	49	230 V a.c. *3)	40 ... 60 Hz	45 VA	45 VA
Voltage and Frequency Solenoid 9501/9504 *1)					
024	00	24 V d.c.	-	80 W	80 W
024	49	24 V a.c. *3)	40 ... 60 Hz	89 VA	89 VA
110	49	110 V a.c. *3)	40 ... 60 Hz	89 VA	89 VA
120	49	120 V a.c. *3)	40 ... 60 Hz	89 VA	89 VA
220	49	220 V a.c. *3)	40 ... 60 Hz	89 VA	89 VA
230	49	230 V a.c. *3)	40 ... 60 Hz	89 VA	89 VA

*3) a.c. only with rectifier 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.

Additional solenoid systems for hazardous areas

ATEX category	ATEX protection class	IP protection class	Solenoid	Standard voltages
II 3G II 3D	Ex ec IIC T4 Gc Ex tc IIIC T130°C Dc	IP65	8426 *4)	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 resp. T95°C	IP65	8920	24 V d.c., 110 V a.c., 230 V a.c.
II 2GD 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.
II 2G II 2D	Ex eb mb IIC T3 Gb Ex mb tb IIIB T140°C Db	IP66	6240	24 V d.c., 110 V a.c., 230 V a.c.

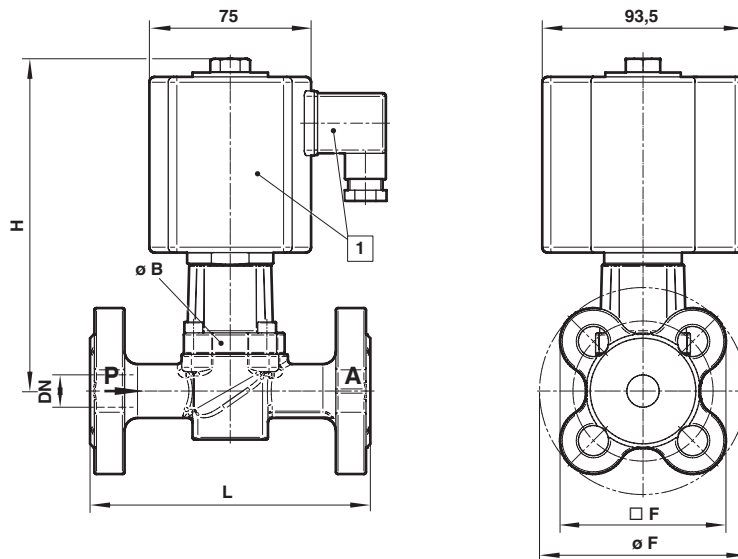
Attention!

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

*4) Only d.c. for a.c. solenoids with design inspection certificate acc. to category 2, e.g. 8920/ 9540/ 6240

Further versions on request!

Dimensions
up to DN 25

 Abmessungen in mm
 Projection/First angle


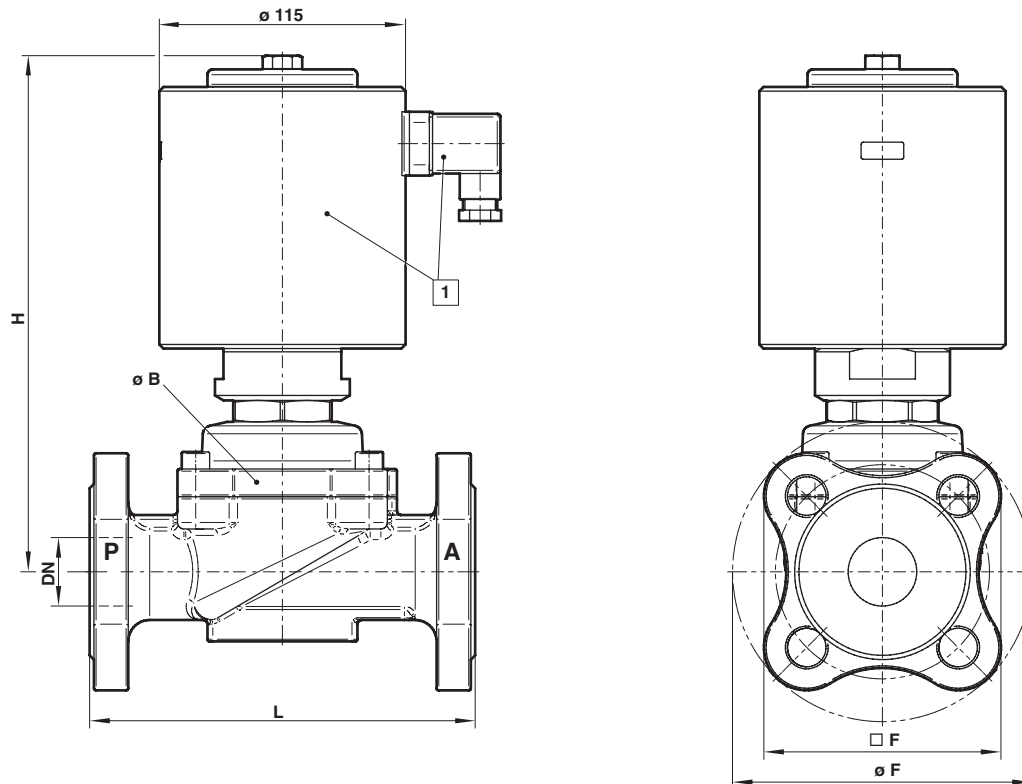
1 Solenoid rotatable 360°
 Socket turnable 4 x 90°
 (Socket included)

Orifice (mm)	ø B	ø F max.	3 F	H	L	Model
15	44	96	77	154	130	8534200.840x.xxxx *5)
20	50	110	86,6	162	150	8534300.840x.xxxx
25	62	120	95,1	167,5	160	8534400.840x.xxxx

*5) Manifold of Stainless steel (1.4408)

Dimensions
from DN 32

Abmessungen in mm
Projection/First angle



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

Orifice (mm)	ø B	ø F max.	3 F	H	L	Model
32	92	140	110,7	260	180	8534500.950x.xxxxx
40	92	150	117,8	260	200	8534600.950x.xxxxx
50	109	165	128,4	248	230	8534700.950x.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) satisfied.

Note to EAC marking:

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