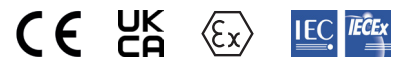


85340 2/2-way piston valves

- 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 position:
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

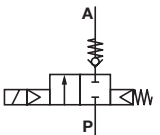
Fluid temperature:
–10 ... +90°C (+32 ... +194°F)

Ambient temperature:
–10 ... +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	15	0 ... 25	0 ... 362	3,8	8534200.8401.xxxxx	8534200.8404.xxxxx
	20	20	0 ... 25	0 ... 362	4,2	8534300.8401.xxxxx	8534300.8404.xxxxx
	25	25	0 ... 25	0 ... 362	4,8	8534400.8401.xxxxx	8534400.8404.xxxxx
	32	32	0 ... 25	0 ... 362	9,6	8534500.9501.xxxxx	8534500.9504.xxxxx
	40	40	0 ... 25	0 ... 362	10	8534600.9501.xxxxx	8534600.9504.xxxxx
	50	50	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					
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
230	49	220 V a.c. *3)	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. *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

Further versions 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.

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 II 2D	Ex db IIC T4/T5 Gb Ex tb IIIC T130°C/T95°C Db	IP65	8920	24 V d.c., 110 V a.c., 230 V a.c.
II 2G II 2D	Ex eb mb IIC T3/T4 Gb Ex tb IIIC T140°C/ T130°C Db	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.

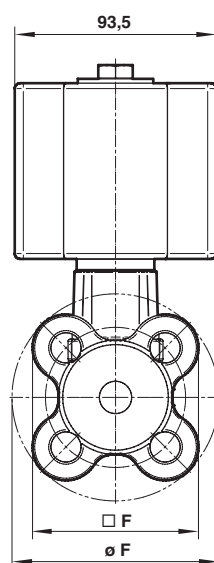
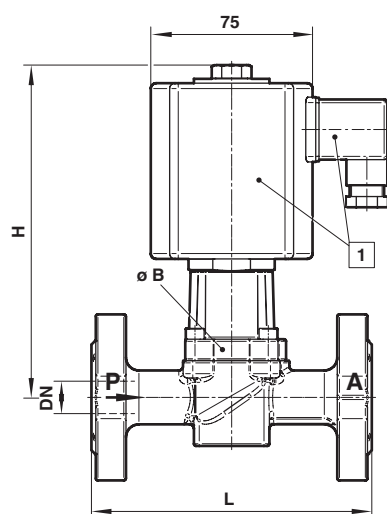
Attention!

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

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

Dimensions up to DN 25

Dimensions in mm
Projection/first angle



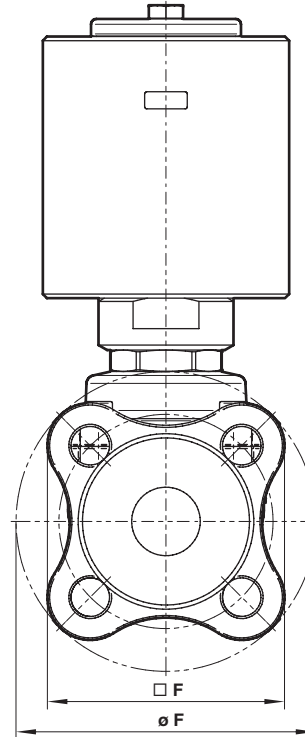
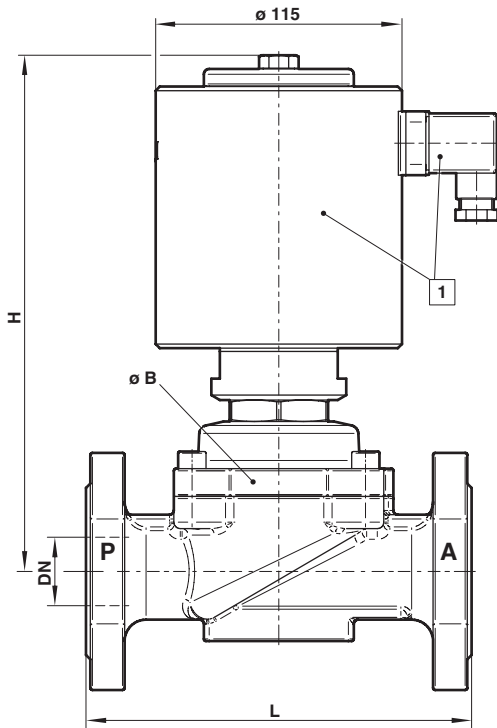
1 Solenoid rotatable 360°
Socket turnable 4 x 90°
(Socket included)

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

*5) Manifold of Stainless steel (1.4408)

Dimensions from DN 25

Dimensions in mm
Projection/first angle



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

Orifice (mm)	ø B	ø F max.	□ 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.