- **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**



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

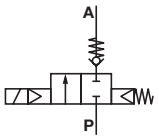
Flow direction:
Determined
Port size:
DN 15 ... DN 50
Operating pressure:
P > A: 0 … 25 bar (0 ... 362 psi)
A > P: 0 ... 16 bar, (0 ... 232 psi)
backpressure tight

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) (m^3/h)	Operating pressure *2) (bar)	Weight (kg)	Model Solenoid in V d.c.	Model Solenoid in V a.c.
	15	4,4	0 ... 25	3,8	8534200.8401.xxxxx	8534200.8404.xxxxx
	20	7	0 ... 25	4,2	8534300.8401.xxxxx	8534300.8404.xxxxx
	25	10,5	0 ... 25	4,8	8534400.8401.xxxxx	8534400.8404.xxxxx
	32	25	0 ... 25	9,6	8534500.9501.xxxxx	8534500.9504.xxxxx
	40	27	0 ... 25	10	8534600.9501.xxxxx	8534600.9504.xxxxx
	50	43	0 ... 25	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

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2014 - 5743c) © 2015 Buschjost GmbH

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
Electrcal 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

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

*1) 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

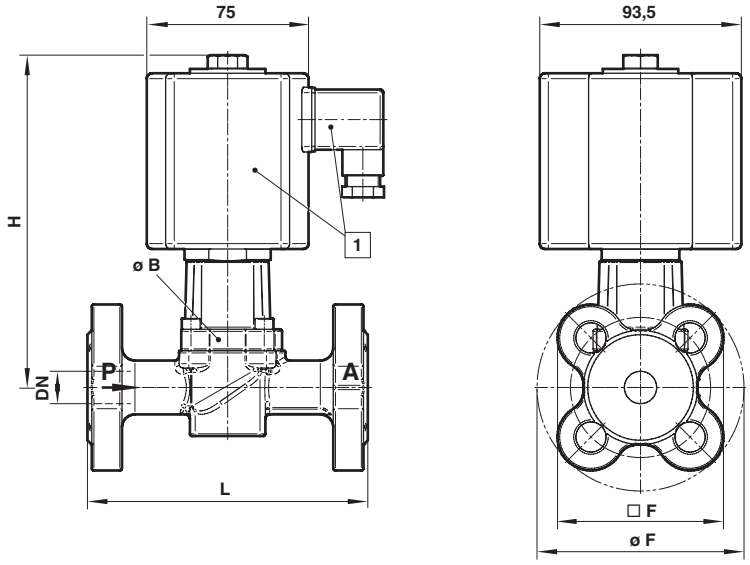
ATEX category	Protection class	Solenoid	Standard voltages
II2GD	EEx me II T3 T 140°C up to G1	8441	24 V d.c., 110 V a.c., 230 V a.c.
II3G	Ex nA II T4 Ex tD A22 IP65 T 135°C *2)	8426	24 V d.c., 110 V a.c., 230 V a.c.
II2G	Ex d IIC T4/T5 Ex tD A21 IP65 T 130°C resp. T 95°C	8920	24 V d.c., 110 V a.c., 230 V a.c.
II2GD	Ex e mb II T3/T4 Ex tD A21 IP65 T140°C	8540	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.
*2) Only d.c. for a.c. solenoids with design inspection certificate acc. to category 2, e.g. XXXXXX.8441

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2014 - 5743c) © 2015 Buschjost GmbH

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 *3)
20	50	110	86,6	162	150	8534300.840x.xxxxx
25	62	120	95,1	167,5	160	8534400.840x.xxxxx

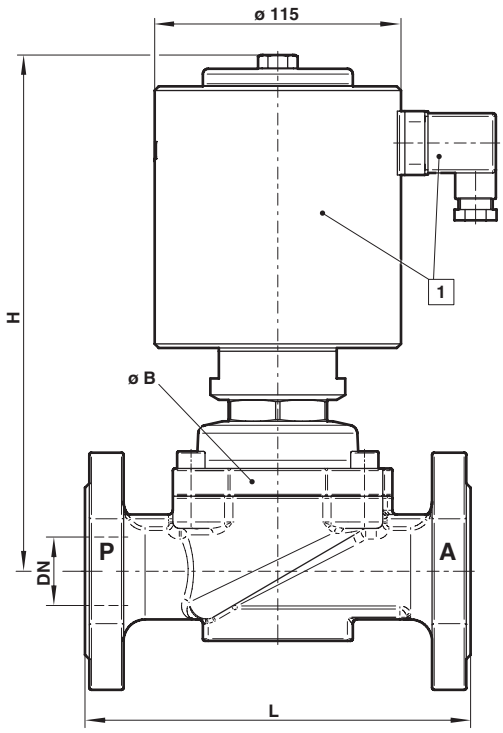
*3) Manifold of Stainless steel (1.4408)

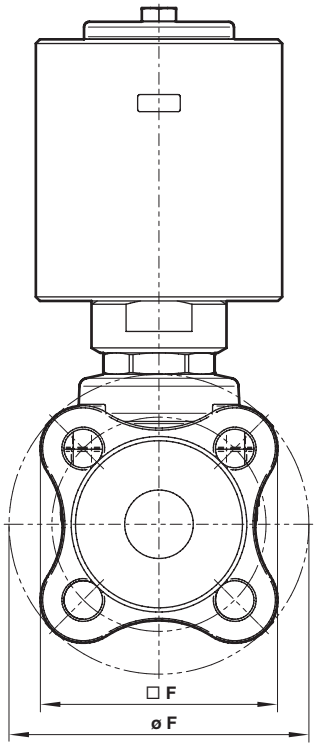
Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2014 - 5743c) © 2015 Buschjost GmbH

Dimensions

from DN 32

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, including the connection size DN 25 (G 1), are according to Art. 3 § 3 of the Pressure Equipment Directive (PED) 97/23/EG. This means interpretation and production are in accordance to engineers practice wellknown in the member countries.

The CE-sign at the valve refers not to the PED. Thus the declaration of conformity is not longer applicable for this directive.

For valves > DN 25 (G 1) Art. 3 § (1) No.1.4 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 (2004/108/EG) satisfield.

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2014 - 5743c) © 2015 Buschjost GmbH