

- > Port size: DN 15 ... 50, flange connection, **PN 40**
- > Valve operates without differential pressure (Zero delta P)
- > Valve piston with PTFE guide-ring
- > With inspection certificate DIN EN 10204 - 3.1 Requirements AD 2000 A4
- > International approvals















Technical features

Medium:

Slightly aggressive gases and liquid fluids

Switching function:

Normally closed Operation:

Solenoid actuated, with forced lifting

Mounting:

Optional, preferably solenoid vertical on top

Flow direction:

Determined

Port size:

DN 15, DN 20, DN 25, DN 32, DN 40, DN 50

Operating pressure:

0 ... 25 bar (0 ... 362 psi) 0 ... 40 bar (0 ... 580 psi)

Fluid temperature:

−20° ... +90°C (-4° ... +194°F) **Ambient temperature:**

-20° ... +50°C (-4° ... +122°F)

Material:

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

For contaminated fluids insertion of a strainer is recommended.

Technical data - standard models

Symbol	Orifice (mm)	Flow kv value *1) (m³/h)	Operating p	ressure *2) (psi)	Weight (kg)	Model Solenoid in V d.c.	Model Solenoid in V a.c.
Al P	15	4,4	0 25	0 362	4,2	8658200.8401.xxxxx	8658200.8404.xxxxx
	20	7	0 25	0 362	4,6	8658300.8401.xxxxx	8658300.8404.xxxxx
	25	10,5	0 25	0 362	5,1	8658400.8401.xxxxx	8658400.8404.xxxxx
	32	25	0 25	0 362	9,6	8658500.8401.xxxxx	8658500.8404.xxxxx
	40	27	0 25	0 362	10	8658600.8401.xxxxx	8658600.8404.xxxxx
	50	43	0 25	0 362	11,5	8658700.8401.xxxxx	8658700.8404.xxxxx

xxxxx Please insert voltage and frequency codes

Inspection certificate DIN EN 10204 - 3.1

Requirements AD 2000 A4 (W2 / W5 / W10)

12 57 333.0000

Material quality proof for:

- valve body, -cover, body screws acc. to DIN EN 10204 3.1
- material quality proof for fluid contacted parts acc. to DIN EN 10204 2.2
- function and leak test acc. to DIN EN 10204 3.1, leackage A acc. to DIN EN 12266-1

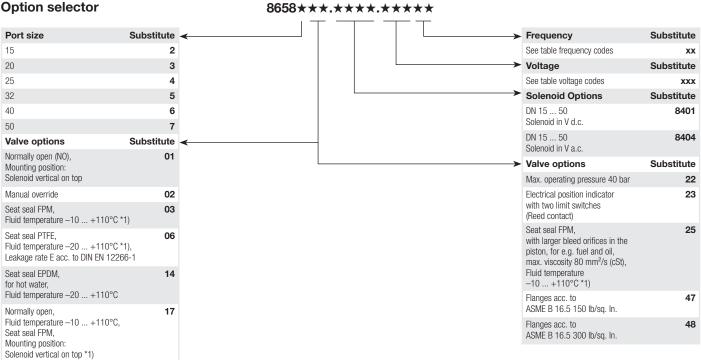


^{*1)} Cv-value (US) ≈ kv value x 1.2

^{*2)} For gases and liquid fluids up to 40 mm²/s (cSt)



Option selector



Standard solenoid systems

Voltage and Frequency Solenoid 8401/8404						
Code	Code	Voltage	Frequency	Power co	Power consumption	
Voltage	Frequency			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	230 V a.c. *3)	40 60 Hz	45 VA	45 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 (since April 2018)

ATEX cat- egory	ATEX protection class	IP protection class		Standard voltages	Old variant
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.	/
2G 2D	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 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.	8441

Attention!

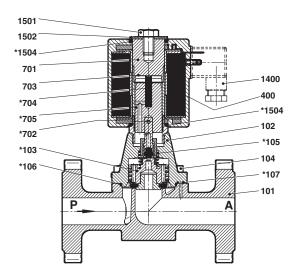
The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids.

^{*4)} d.c. only, for a.c. solenoids with design inspection certificate acc. to category 2, e. g. 6240 oder 8920



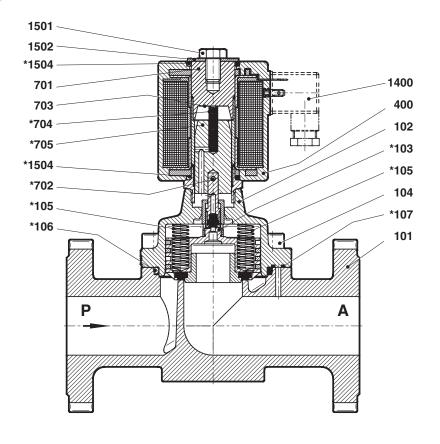
Section View

DN 15 ... 25



No.	Description
101	Valve body
102	Valve cover
*103	Valve piston
104	Straight pin
*105	Pressure spring
*106	Seal ring
*107	Seal ring
400	Solenoid
701	Core tube
*702	Straight pin
703	Round plate
*704	Pressure spring
*705	Core
1400	Socket (included)
1501	Hexagon screw
1502	Round plate
1504	0-ring (2x)

DN 32 ... 50



No.	Description
101	Valve body
102	Valve cover
*103	Valve piston
104	Straight pin
*105	Pressure spring (2x)
*106	Seal ring
*107	Seal ring
400	Solenoid
701	Core tube
*702	Straight pin
703	Round plate
*704	Pressure spring
*705	Core
1400	Socket (included)
1501	Hexagon screw
1502	Round plate
*1504	0-ring (2x)

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



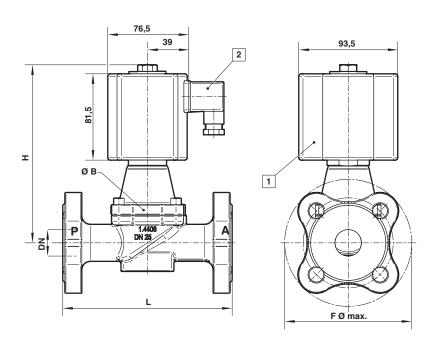
Dimensions

DN 15 ... 25

Dimensions in mm Projection/First angle







1 Socket rotatable 360° 2 Socket turnable 4 x 90° (Socket included)

Orifice (mm)	øΒ	ø F max.	н	L	Model
15	44	96	142	130	8658200.840x.xxxxx
20	50	110	150	150	8658300.840x.xxxxx
25	62	115	155	160	8658400.840x.xxxxx

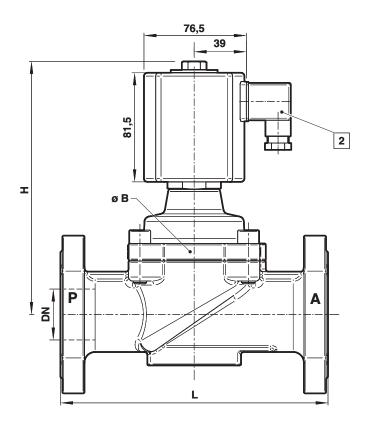
Contact face acc. to DIN EN 1092-1/B

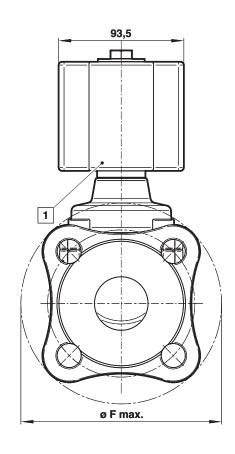


DN 32 ... 50









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

Orifice (mm)	øΑ	ø F max.	Н	L	Model
32	92	140	184	180	8658500.840x.xxxxx
40	92	150	189	200	8658600.840x.xxxxx
50	109	165	197	230	8658700.840x.xxxxx

Contact face acc. to DIN EN 1092-1/B

Note to Pressure Equipment Directive (PED):

The valves of this series up to and including DN 25 (G1) are according to Art. 4 \S 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.