

- > Port size: DN 15 ... 50, Flange connection, Pressure rating PN 40
- > High flow rate
- > For robust industry solutions
- > Damped operation
- > Leakage rate E acc. to DIN EN 12266-1
- > Solenoid

interchangeable without tools (Click-on®) up to DN 25 thread

- Valve operates without differential pressure (Zero Delta P)
- > Fluids of Group 2 acc. Pressure **Equipment Directive** 97/23/EC



Fluid temperature:

**Ambient temperature:** 

0° ... +200°C (+32° ... +392°F)

0° ... +60°C (+32° ... +140°F)





#### **Technical features**

Medium:

Neutral steam and liquid fluids

**Switching function:** 

Normally closed Operation:

Solenoid actuated, with forced lifting

Mounting position:

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 ... 16 bar (0 ... 232 psi)

Material:

Body: Stainless steel (1.4408), Brass

Seat seal: PTFE

Internal parts: Stainless steel, PTFE / Carbon / FPM

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)	Weight (kg)	Model Solenoid in V d.c.	Model Solenoid in V a.c.
A TOWN	15	3,8	0 16	3,8	8552200.9402.xxxxx	8552200.9406.xxxxx
	20	6,1	0 16	4,2	8552300.9402.xxxxx	8552300.9406.xxxxx
	25	9,5	0 16	4,8	8552400.9402.xxxxx	8552400.9406.xxxxx
	32	23	0 16	9,6	8552500.8402.xxxxx	8552500.8406.xxxxx
	40	25	0 16	10	8552600.8402.xxxxx	8552600.8406.xxxxx
	50	41	0 16	11,5	8552700.8402.xxxxx	8552700.8406.xxxxx

xxxxx Please insert voltage and frequency codes

<sup>\*1)</sup> Cv-value (US) ≈ kv-Wert x 1,2

<sup>\*2)</sup> For gases and liquid fluids up to 80 mm<sup>2</sup>/s (cSt)



### **Option selector**

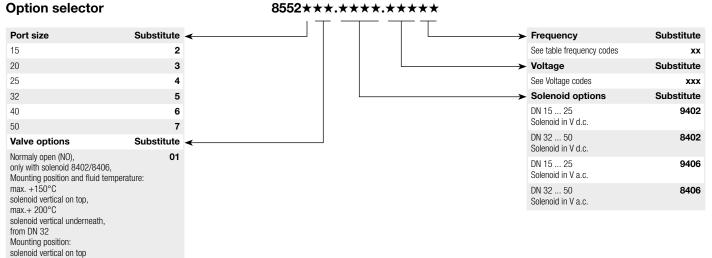
Manual override

Seat seal EPDM,

Fluid temperature 0 ... +130°C Max. operating pressure 25 bar

Electrical position indicator

with two limit switches (Reed contact)



## Standard solenoid systems

Flanges acc. to ASME B 16.5 150 lb/ sq.In.

Flanges acc. to ASME B 16.5 300 lb/ sq.ln.

Voltage and Frequency Solenoid 9402/9406 *2)						
Code	Code	Voltage	Frequency	Power consumption		
Voltage	Frequency			Inrush	Holding	
024	00	24 V d.c.	-	29 W	29 W	
024	49	24 V a.c. *1)	40 60 Hz	33 VA	33 VA	
110	49	110 V a.c. *1)	40 60 Hz	33 VA	33 VA	
120	49	120 V a.c. *1)	40 60 Hz	33 VA	33 VA	
230	49	230 V a.c. *1)	40 60 Hz	33 VA	33 VA	
Voltage and Frequency Solenoid 8402/8406						
024	00	24 V d.c.	-	29 W	29 W	
024	49	24 V a.c. *1)	40 60 Hz	33 VA	33 VA	
110	49	110 V a.c. *1)	40 60 Hz	33 VA	33 VA	
120	49	120 V a.c. *1)	40 60 Hz	33 VA	33 VA	
230	49	230 V a.c. *1)	40 60 Hz	33 VA	33 VA	

02

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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.

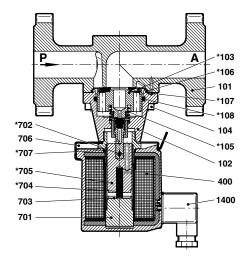
<sup>\*1)</sup> A.c. only wit rectifier plug

<sup>\*2)</sup> r coil only maintaining the ambient temperature of +65°C (With the expection of solenoid 94XX up to 41 V a.c.)

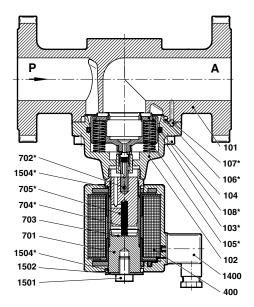


### **Section View**

# DN 15 ... 25



DN 32 ... 50



<sup>\*</sup> These individual parts form a complete wearing unit. When ordering spare parts please state Model No and Series No.

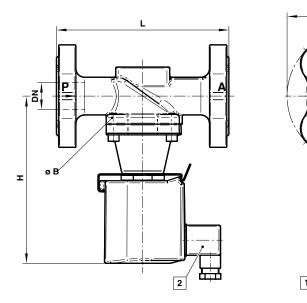
No.	Description
101	Valve body
102	Valve cover
*103	Valve piston
104	Straight pin
*105	Pressure spring
*106	Seal ring
*107	Gaskets
*108	Grooved ring
400	Solenoid
701	Core tube
*702	Straight pin
703	Round plate
*704	Pressure spring
*705	Core
706	Spring-clip
*707	O-ring
1400	Socket (included)

Valve body			
Valve cover Valve piston			



#### **Dimensions**

DN 15 ... 25



Dimensions in mm Projection/First angle



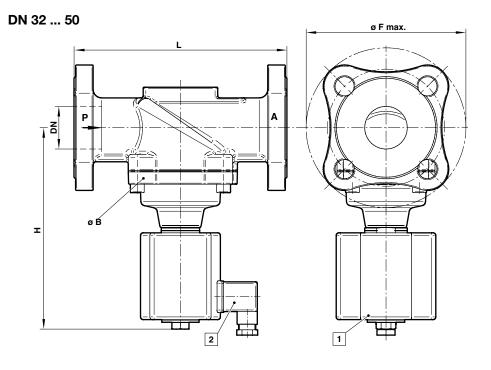


- 1 Solenoid rotatable 360°
- 2 Socket turnable 4 x 90° (Socket included)

Orifice (mm)	øΒ	ø F max.	Н	L	Model
15	44	96	142	130	8552200.940x.xxxxx
20	50	110	150	150	8552300.940x.xxxxx
25	62	115	155	160	8552400.940x.xxxxx

ø F max.

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



- 1 Solenoid rotatable 360° 2 Socket turnable 4 x 90° (Socket included)
- Orifice (mm) øΑ ø F max. Model 32 92 140 184 180 8552500.840x.xxxxx 40 92 150 189 200 8552600.840x.xxxxx 50 165 197 230 8552700.840x.xxxxx

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



#### 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.