

- > **Port size: DN 65 ... 100, flange connection PN 25**
- > **Flat piston valve for steam and hot water**
- > **Damped operation**
- > **Valve works without minimum pressure differential**

OBSOLETE DOCUMENT
 Technical Reference Only



Technical features

Medium:

Hot water and steam

Switching function:

Normally closed

Operation:

Solenoid actuated,
with forced lifting

Mounting:

Solenoid vertical on top

Flow direction:

Determined

Port size:

Flange PN 25, DN 65 ... 100

Operating pressure:

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

Fluid temperature:

0 ... +150°C (+32 ... 302°F)

Ambient temperature:

0 ... +60°C (+32 ... 140°F)

Material:

Body: Cast steel

Seat seal: PTFE, leakage rate E,
acc. to EN 12266-1

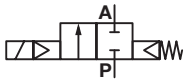
Cover: Cast steel

Valve seat: Gun metal

Internal parts: Stainless steel,
gun metal

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.
	65	67	0 ... 16	37,2	8422800.9502.xxxxx	8422800.9506.xxxxx
	80	94	0 ... 16	46,5	8422900.9502.xxxxx	8422900.9506.xxxxx
	100	144	0 ... 16	67,5	8423000.9502.xxxxx	8423000.9506.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 40 mm²/s (cSt)

Option selector

8422

★★★★.★★★★.★★★★

Port size

Substitute

DN 65

8

DN 80

9

DN 100

10

Valve options

Substitute

Normally open (NO)

01

Manual override

02

Seat seal EPDM,
Fluid temperature 0 ... +130°C
(+32 ... +266°F)

14

Free of varnish disturbing
substances

33

Electrical position indicator with
two limit switches

41

Frequency

Substitute

See table frequency codes

xx

Voltage

Substitute

See Voltage codes

xxx

Solenoid options

Substitute

DN 65 ... 100
Solenoid in V d.c.

9502

DN 65 ... 100
Solenoid in V a.c.

9506

Standard solenoid systems

Voltage and Frequency Solenoid 9502/9506						
Code	Code	Voltage	Frequency	Power consumption		
Voltage	Frequency			Inrush	Holding	
024	00	24 V d.c.	-	55 VA	55 VA	
024	49	24 V a.c. *1)	40 ... 60 Hz	61 VA	61 VA	
42	49	42 V a.c. *1)	40 ... 60 Hz	61 VA	61 VA	
110	49	110 V a.c. *1)	40 ... 60 Hz	61 VA	61 VA	
230	49	230 V a.c. *1)	40 ... 60 Hz	61 VA	61 VA	

*1) AC 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.

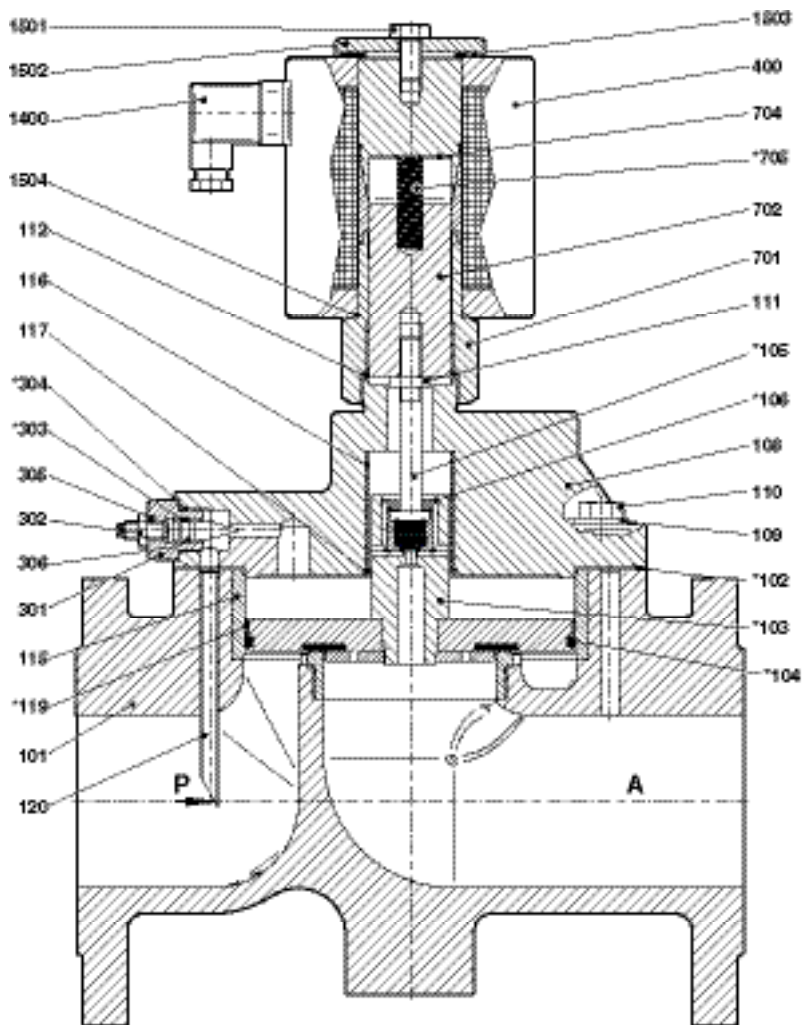
Additional solenoid systems

Option	Solenoid	Standard voltages
Fluid temperature 0 ... +200°C (+32 ... +266°F); Mounting position: Solenoid downwards only	8602	24 V d.c., 110 V a.c., 230 V a.c.

Further versions on request!

Section view

DN 65 ... 100



No.	Description
101	Valve body
*102	Gasket
*103	Valve piston
*104	Grooved ring
*105	Valve spindle
*106	Locking ring
108	Body cover
109	Spring washer
110	Hexagon screw
111	Hexagon nut
112	Seal ring
115	Bushing
116	Bushing
117	Snap ring
*119	Guide foil
120	Tube
301	Screw piece
302	Valve spindle
*303	O-ring
*304	O-ring
305	Hexagon nut
306	Grooved ring
400	Solenoid
701	Core tube
702	Core
704	Round plate
*705	Pressure spring
1400	Socket (included)
1501	Hexagon screw
1502	Round plate
1503	Gasket
1504	O-ring

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

To avoid high shock pressure, you can control the closing time with the adjusting stem pos. 301.

Turning clockwise increase restriction and slows down closing time. A totally closed restriction would result in a malfunction.

