

- Port size: DN 65 ... 100, flange connection PN 40
- > Flat piston valve
- > High flow rate
- > Damped operation
- > Valve works without

minimum pressure differential







Technical features

Medium:

Air, water, oil
Switching function:
Normally closed
Operation:
Solenoid actuated,
with forced lifting
Mounting:
Solenoid vertical on top
Flow direction:
Determined

Port size: Flange PN 40, DN 65 ... DN 100 Operating pressure: 0 ... 25 bar (0 ... 362 psi) Fluid temperature: -10 ... +90°C (+14 ... +194°F) Ambient temperature: -10 ... +50°C (+14 ... +122°F) Material:
Body: Cast steel
Seat seal: NBR
Cover: Cast steel
Internal parts: Stainless steel,
brass, 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.
Al T	65	67	0 25	35,5	8420800.9501.xxxxx	8420800.9504.xxxxx
	80	94	0 25	45,8	8420900.9501.xxxxx	8420900.9504.xxxxx
	100	144	0 25	66,3	8421000.9501.xxxxx	8421000.9504.xxxxx

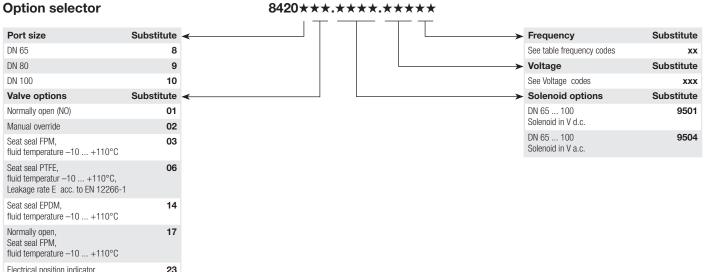
xxxxx Please insert voltage and frequency codes

^{*1)} Cv-value (US) ≈ kv value x 1,2

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



Option selector



Standard solenoid systems

for open and closed

Voltage and Frequency Solenoid 9501/9504						
Code	Code	Voltage	Frequency	Power consumption		
Voltage	Frequency			Inrush	Holding	
024	00	24 V d.c.	-	80 W	80 W	
024	49	24 V a.c. *1)	40 60 Hz	89 VA	89 VA	
42	49	42 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	
230	49	230 V a.c. *1)	40 60 Hz	89 VA	89 VA	

^{*1)} AC Solenoid 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.



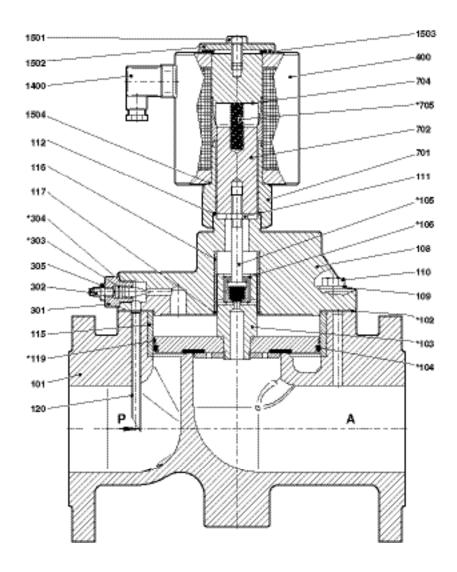
Additional solenoid systems

ATEX category	Protection class	Solenoid	Standard voltages
II2GD	II 2 G Ex e mb II T3T4 II 2 D Ex tD A21 IP65 T140°C	9540	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.

Section View DN 65 ... 100

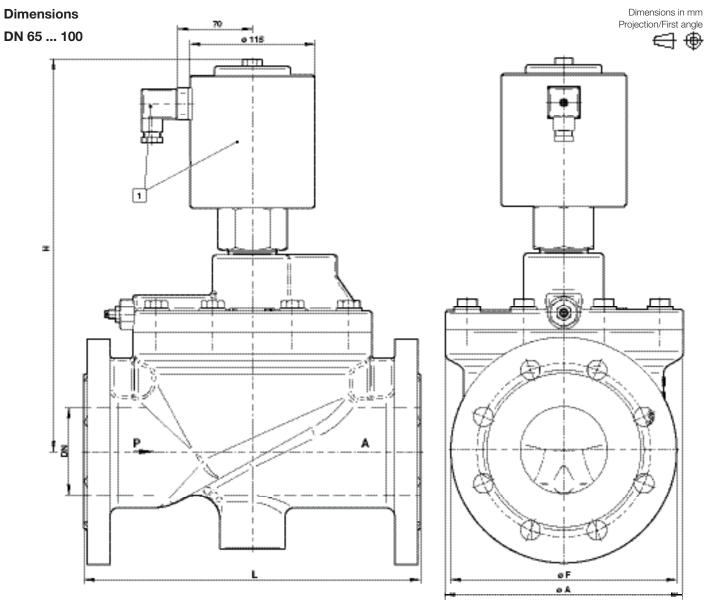


No.	Description
101	Valve body
*102	Gasket
*103	Valve piston
*104	Grooved ring
*105	Valve spindle
*106	Locking ring
108	Body cover
109	Spring washer
110	Hexagon screw
111	Hexagon nut
112	O-ring
115	Bushing
116	Bushing
117	Snap ring
*119	Guide foil
120	Tube
301	Screw piece
302	Valve spindle
*303	O-ring
*304	O-ring
305	Hexagon nut
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

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 an malfunction.

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





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

Orifice (mm)	L	ø A	Н	ø F	Model
65	290	195	340	185	8420800.950x.xxxxx
80	310	220	360	200	8420900.950x.xxxxx
100	350	260	390	220	8421000.950x.xxxxx

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

Note to Procure Equipment Directive (PED):

Pervalence DN SS (0.1) Art. 3 § (1) No.1.4 applica

The basic requirements of the Enclosure I of the PEO must be fulfilled. The CE-sign or the valve includes the PEO. A certificate of conformity of this directive will be available on request.

Note to Macteringratic Computability Quicking (EUC):

The valves shall be provided with an electrical circuit which ensures the limits of the hormonised soundards EN 61000-6-3 and EN 61000-6-1 are observed, and hence the requirements of the Electromagnetic Compatibility Guideline (2004/108/ES) solubled.