2/2-way valves DN 25 to DN 40

For air
Solenoid pilot operated
Compression Fittings DN 25 and DN 40
Operating pressure 0.4 to 8 bar

83670

Description (standard valve)

Switching function:	normally closed
Flow direction:	determined
Coil gas temperature:	–40 °C to max. +85 °C
Ambient temperature:	–20 °C to max. +85 °C
Mounting position:	optional, preferably solenoid vertical on top

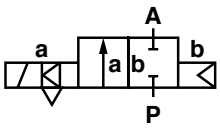
Material

Body:	Aluminium
Seat seal:	TPE
Internal parts:	TPU

Features

- High flow rate
- All internal components captive
- Simple compact design
- Solenoid interchangeable without tools
- Integrated silencer
- One-piece diaphragm
- Simple mounting

Symbol



Ordering information

To order, quote model number from table overleaf, e.g. 8367400.8171 for a DN 25 valve.

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Valve Technology and Systems

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Characteristic data

Valves

Part Number	Nominal diameter (mm)	Operating pressure min.	max. (bar)	kv-value * (Base m^3/h)	Weight (kg)
8367400.8171	25	0.4	8	22	0.9
8367600.8171	40	0.4	8	59	2.1

* C_V-value (US) ≈ k_V-value x 1.2

State voltage [V] and frequency [Hz]

Solenoid 8171

Standard voltages

DC ⎓	AC ∿ 50 Hz	60 Hz
24 V	24 V	24 V
-	110 V	120 V
-	230 V	-

Design acc. to DIN VDE 0580
Voltage range ±10 %
100 % duty cycle
Protection class acc. to EN 60529 IP65
Socket Form A acc. to DIN EN 175301-803 (included)

Power Consumption

According to DIN VDE 0580 at coil temperature of +20 °C. In operation the power consumption of the solenoid decreases by approx. 30 %.

Solenoid	DC ⎓	AC ∿ Inrush	Holding
8171 *	12 W	23 VA	16 VA / 8 W

* c SP us coil onlly maintaining the ambient temperature of +65 °C

Further options (Valves)

XXXXX**62**.XXXX Crude gas temperature version –20 °C to +100 °C
Seat seal TPE,
Ambient temperature –40 °C to +85 °C,
Coil gas temperature –20 °C to +85 °C

XXXXX**63**.XXXX Crude gas temperature version –20 °C bis +140 °C
Seat seal TPE,
Ambient temperature –40 °C to +85 °C,
Coil gas temperature –20 °C to +85 °C

On request Further versions

Further options (Solenoids)

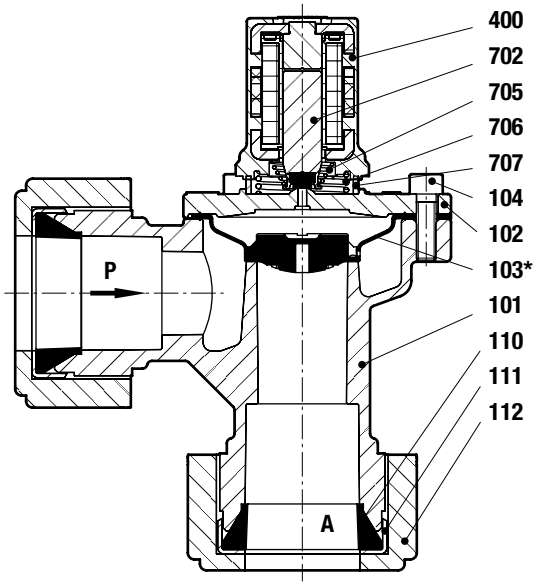
XXXXXXX.**8176** Solenoid in protection class
Ex II 3 GD EEx nA II T4 T 135 °C

XXXXXXX.**8186** Solenoid in protection class
Ex II 2 GD EEx me II T4 T 140 °C

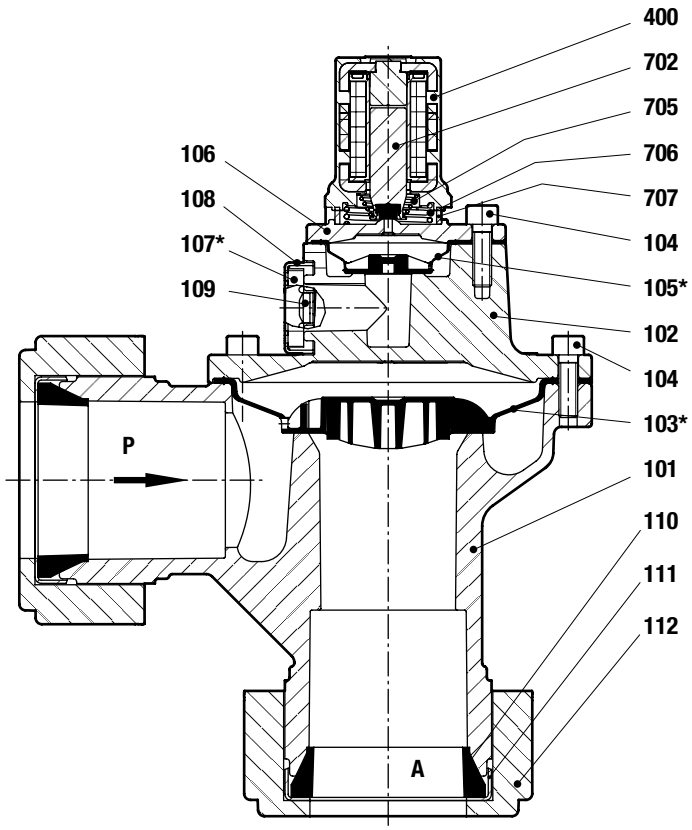
On request Further versions

Section View

DN 25



DN 40



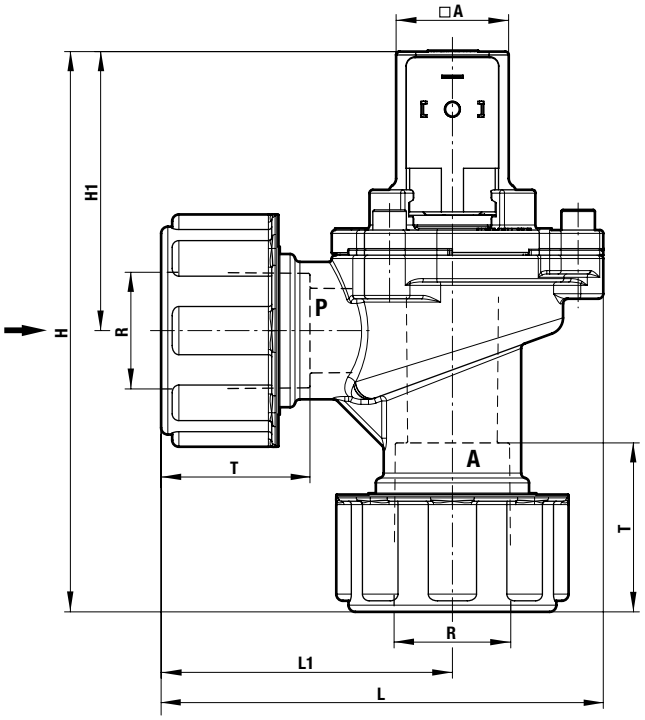
101 Valve body
102 Valve cover
*103 Diaphragm
104 Socket head cap screw
*105 Diaphragm
106 Valve cover
*107 Silencer
108 Silencer housing
109 Socket head cap screw
110 Gasket
111 Gasket socket
112 Retainer nut
** Solenoid complete wearing unit, e.g. 8298000.**8170**.XXXXX for a solenoid 8170
400 Solenoid
702 Core
705 Pressure spring
706 Pressure spring
707 Silencer
1400 Socket (included)

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

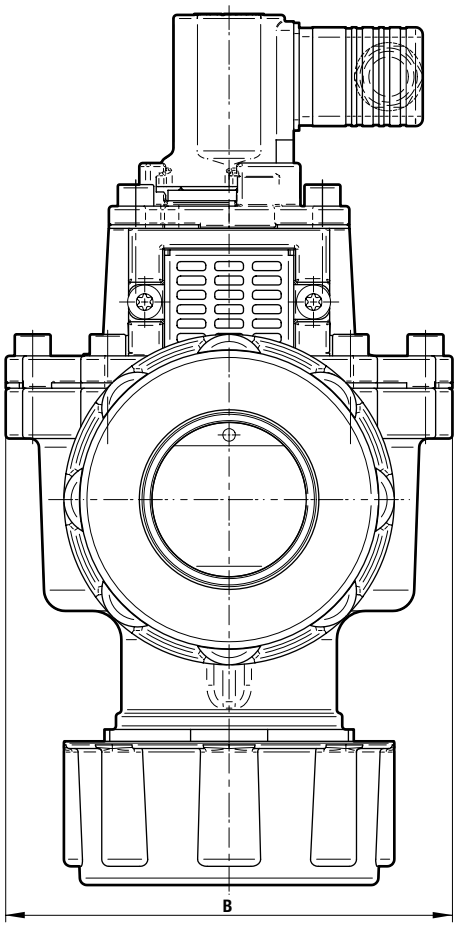
General Dimensions

Solenoid rotatable 3 x 120°
Socket turnable 4 x 90°
(Socket included)

DN 25



DN 40



Part Number	Connection size	T (mm)	Ø A (mm)	B (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)
8367400.8171	34.8	ca. 45	34	80	ca. 167	ca. 83	ca. 132	ca. 87
8367600.8171	50	ca. 66	34	124.5	ca. 242	ca. 135	ca. 183	ca. 118

Note to Pressure Equipment Directive (PED):
The valves of this series 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 does not refer to the PED. Thus the declaration of comformity is not longer applicable for this directive.

Note to Electromagnetic Compatibility Guideline (EEC):
The valves shall be provided with an electrical circuit which ensures the limits of the harmoniised standards EN 61000-6-3 and EN 61000-6-1 are observed, and hence the requirements of the Electromagnetic Guildeline (2004/108/EC) satisfield.