

- > Port size: DN 15 ... 50
- > High flow rate
- > Suitable for contaminated flow fluids
- > Damped closing (Valves closes against flow direction)
- > For robust industry applications
- > Suitable for vacuum up to max. 90%
- > International approvals



Technical features

Medium:

Aggressive gases and liquid fluids

Pilot fluid:

Neutral gases max. +80°C (+176°F)

Switching function:

Normally closed

Operation:

Pressure actuated by external fluid

Mounting position:

Optional

Flow direction:

Determined

Port size:

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

Pilot connection:

G1/4

Operating pressure:

See table

Pilot pressure:

3,5 ... bar (51 ... 116 psi)

Fluid temperature:

-10 ... +180°C (+14 ... +356°F)

Ambient temperature:

-10 ... +60°C (+14 ... +140°F)

Material:

Process fluid characteristics:

Body: Stainless steel (1.4581)

Seat seal: PTFE

Internal parts: Sandvik 1802,
Stainless steel

Seal packing: PTFE / FPM,
self-adjustable

Pilot fluid characteristics:

Body: Stainless steel, Aluminium,
WEMA-Kor, coated

Seat Seals: NBR

Internal parts: Steel, coated

Technical data – standard models

Symbol	Orifice (mm)	Connection to	ø Actuator (mm)	Flow kv value *1) (m³/h)	Operating pressure*2) (bar) (psi)	Weight (kg) *3)	Model *3)
	15	DIN, Series 1	70	4,8	0 ... 16 0 ... 232	1,4	8458200.0000.00000
	20	DIN, Series 1	70	10	0 ... 10 0 ... 145	1,5	8458300.0000.00000
	25	DIN, Series 2	70	14	0 ... 10 0 ... 145	1,8	8458400.0000.00000
	32	DIN, Series 2	70	23	0 ... 7 0 ... 101	2,4	8458500.0000.00000
	40	DIN, Series 3	70	30	0 ... 4,5 0 ... 65	2,7	8458600.0000.00000
	50	DIN, Series 3	70	37	0 ... 3 0 ... 43	3,9	8458700.0000.00000

*1) Cv-value (US) ≈ kv value x 1,2

*2) For gases and liquid fluids up to 600 mm²/s (cSt)

*3) Without pilot valve

Option selector

8458*****.*****.*****

Orifice (mm)	Substitute
15	2
20	3
25	4
32	5
40	6
50	7
Valve options	Substitute
Normally open (NO), closes with pilot pressure and opens with spring force (pilot pressure 1 ... 6 bar (4 ... 87 psi))	01
Actuator stainless steel; max. fluid temperature +200°C (+392°F)	23

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See Voltage codes	xxx
Solenoid options	Substitute
Without pilot valve	0000
With pilot valve for V d.c. Please insert voltage and frequency codes	0164
With pilot valve for V a.c. Please insert voltage and frequency codes	0165

Notes for 3/2-way pilot valve

Material	Body Brass 2.0402
Pilot fluid temperature	max. +60°C (+140°F)
Pilot pressure	8 bar (116 psi)
Standard voltages	24 V d.c., 24 V a.c., 230 V a.c.

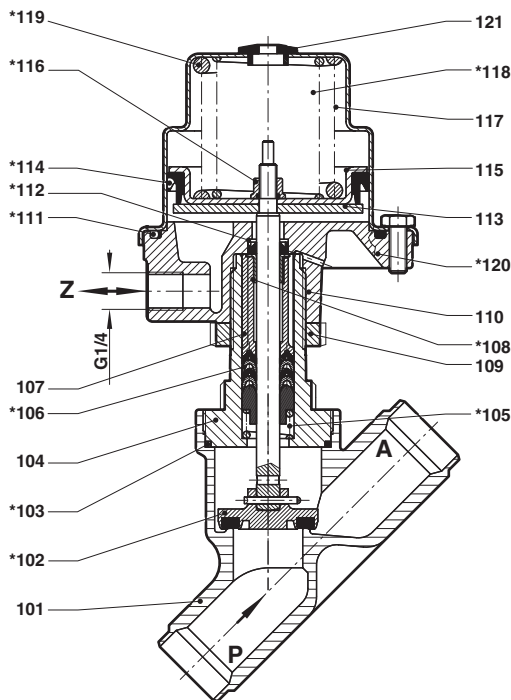
Further versions on request!

Electrical Data for 3/2-way pilot valve

Design acc. to	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65 with mounted socket
Socket	Form A acc. to DIN EN 175301-803 (included)
Technical data	Please contact a member of our sales team, to check the model number. (Fon +49 5731/791-0)

Section View

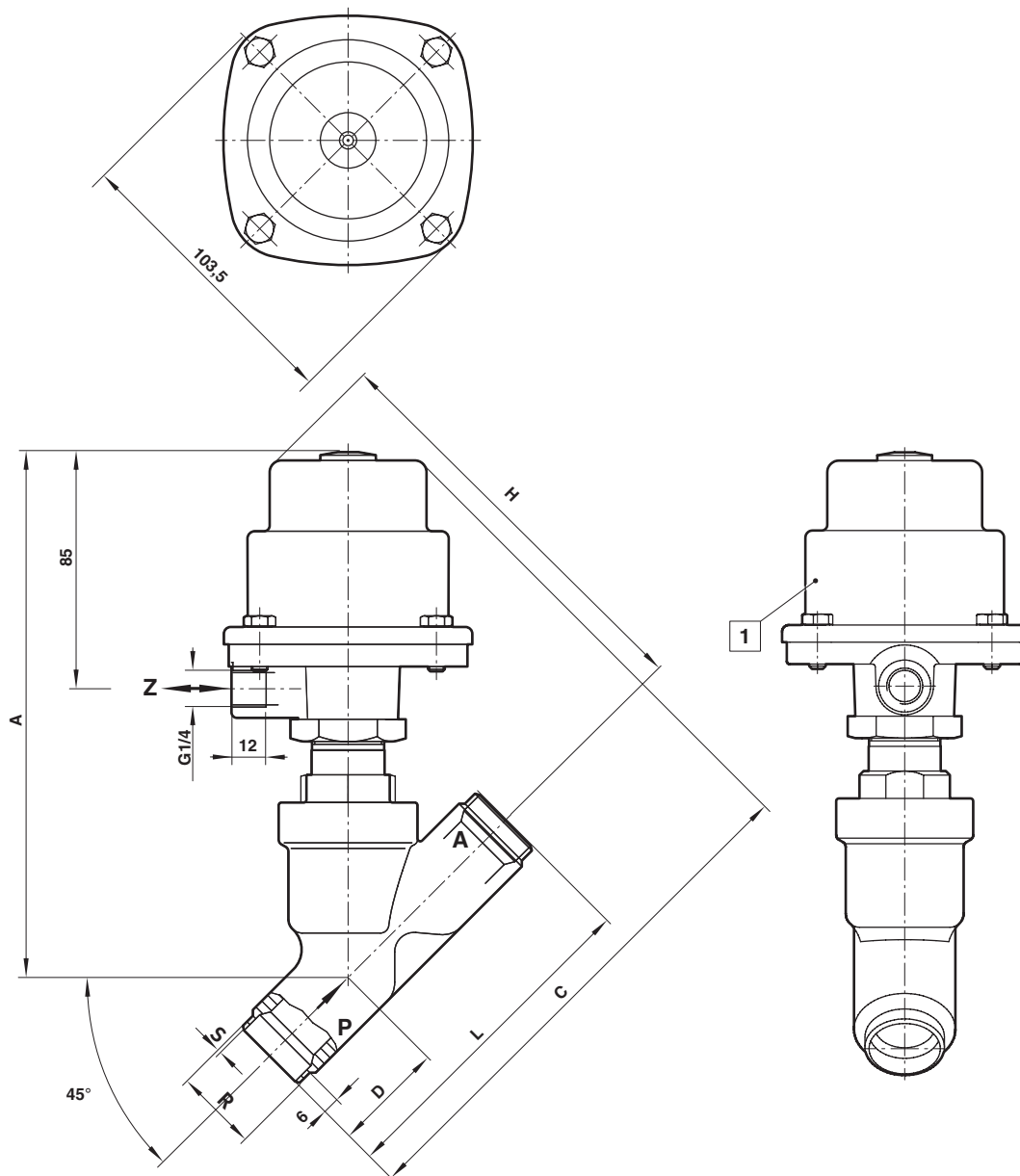
DN 15 ... 50



No.	Description
101	Valve body
*102	Valve spindle, complete
103	Gasket
104	Screw piece
*105	Pressure spring
*106	Spindle sealing
107	Spacer sleeve
*108	Sleeve bearing
109	Nut
110	Bottom of control head housing
*111	O-ring
*112	FPM lip seal
113	Round plate
*114	Lip seal
115	Round plate
*116	Seal-lock-nut
117	Control head housing
*118	Pressure spring (only for DN 50)
*119	Pressure spring
120	Hexagon screw
121	Plug

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

Dimensions
DN 15 ... 50

 Dimensions in mm
 Projection/First angle


1 Actuator may be rotated 360°

Orifice (mm)	A	C	D	H	L	R	S	Model
15	176	175	35	140	100	21,3	1,6	8458200.0000.00000
20	182	184	39	145	110	26,9	1,6	8458300.0000.00000
25	190	190	40	150,5	120	33,7	2	8458400.0000.00000
32	205	207	46	161	143	42,4	2	8458500.0000.00000
40	207	213	51	162	160	48,3	2	8458600.0000.00000
50	219	226	55,5	171	181	60,3	2	8458700.0000.00000

Note to Pressure Equipment Directive (PED):

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