

# 84580

## 2/2-way seat valves

- > 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:**

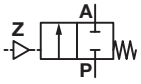
Body: Stainless steel, Aluminium,

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 *3) (kg)	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 mm³/s (cSt)

\*3) Without pilot valve

**Option selector**

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

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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

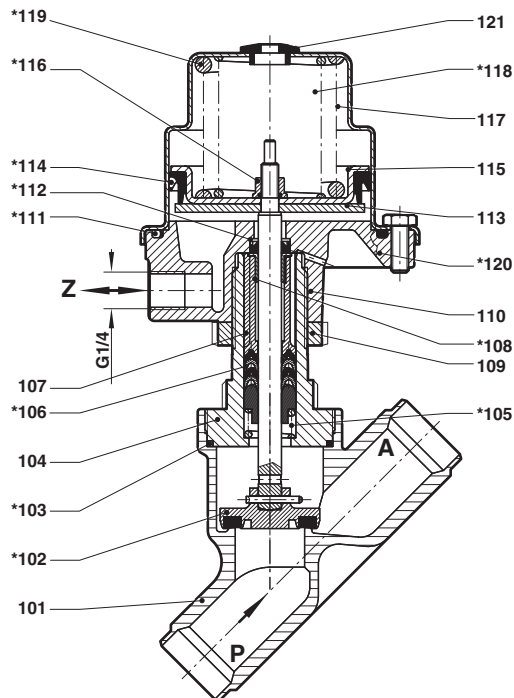
**Notes for 3/2-way pilot valve**

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

Further versions on request!

**Electrical Data for 3/2-way pilot valve**

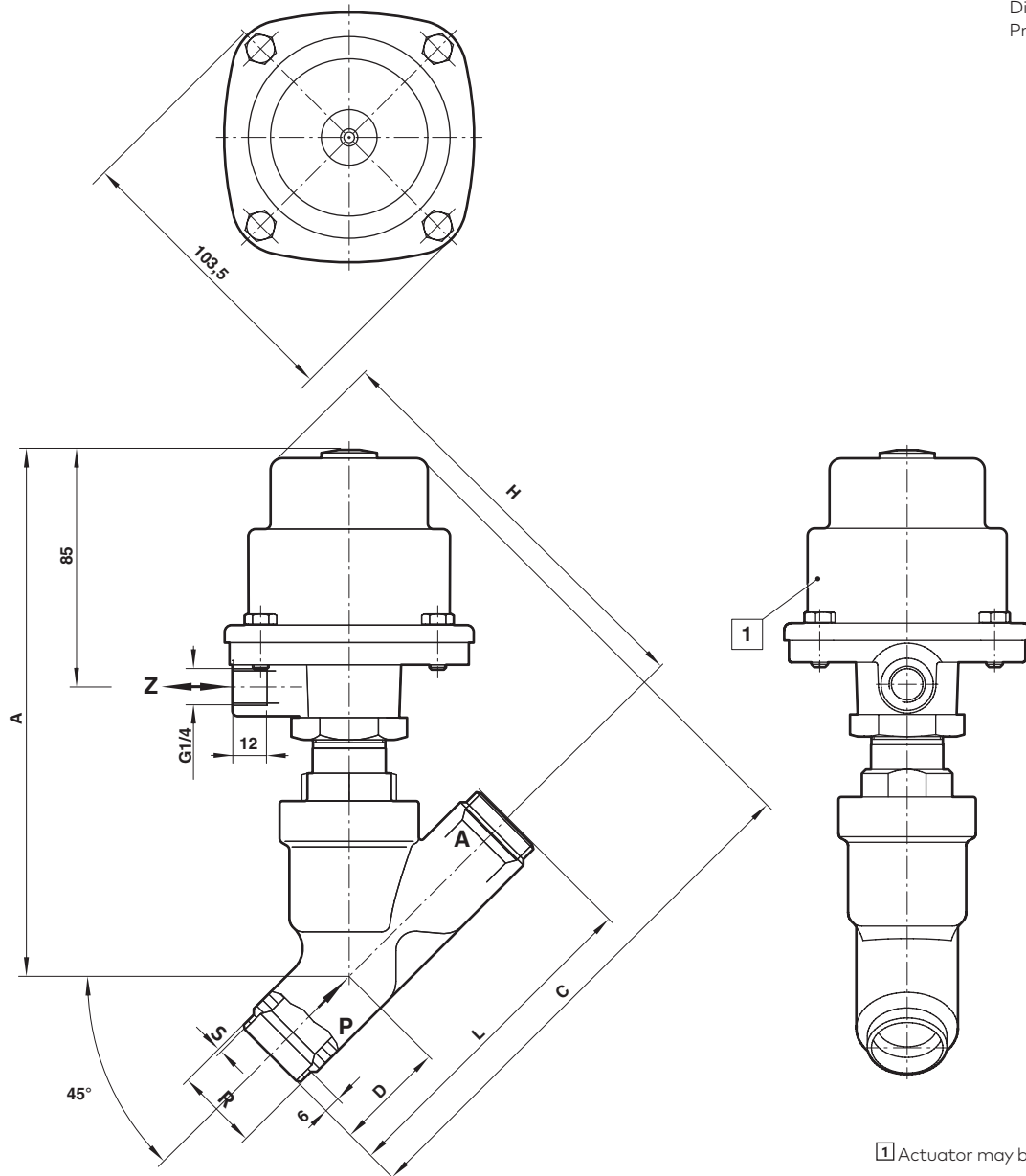
<b>Design acc. to</b>	DIN VDE 0580
<b>Voltage range</b>	±10%
<b>Duty cycle</b>	100% ED
<b>Protection class</b>	EN 60529 IP65 with mounted socket
<b>Socket</b>	Form A acc. to DIN EN 175301-803 (included)
<b>Technical data</b>	Please contact a member of our sales team, to check the model number. (Fon +49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

**Note to EAC marking:**

The EAC-marked products comply with the applicable requirements stated in the technical regulations of the Eurasian Economic Union.