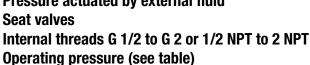
2/2-way valves DN 15 to DN 50

For aggressive gases and liquids Pressure actuated by external fluid **Seat valves**



84520 84530



Description (standard valve)

Switching function: normally closed Flow direction: determined Mounting position: optional

Process fluid characteristics / Valve material

-10 °C up to max. +180 °C Fluid temperature: Ambient temperature: -10 °C up to max. +60 °C Stainless steel (1.4581) Material body:

Seat seal: **PTFE**

Internal parts: Stainless steel

Spindle sealing: PTFE / FPM, self-adjustable



neutral gases fluids Pilot fluid: max. +60 °C Fluid temperature:

Material body: Polyamid 66 with glass fibre 30 %

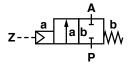
Seat seals:

Internal parts: Brass, Stainless steel, 1.8159, 1.1200

Features

- Easy rebuilding into »normally open« or »double-acting« without tools
- Optical position indicator is standard
- · Damped closing (Valves closes against flow direction)
- · Suitable for contaminated flow fluid
- Suitable for vacuum up to max. 90 %
- · Reversed flow direction optional
- · High flow rate
- · With or without mounted pilot valve
- · Option pressure actuated by external liquid fluid

Symbol



Ordering information

To order, quote model number from table overleaf, e. g. 8452400.0000 for a DN 25 valve without pilot valve.







Characteristic Data

Valves

Part Number ◊	Nominal Diameter (mm)	Connection Size	Pilot Pressure min.	max. (bar)	Operating Pressur min.	e * max. (bar)	ky-value ** (Base m³/h)	Weight Total *** (kg)
8452200.0000 8453200.0000	15	G 1/2 1/2 NPT	3.5	10	0	16.0 (40)	4.8	1.4
8452300.0000 8453300.0000	20	G 3/4 3/4 NPT	3.5	10	0	10.0 (16)	10.0	1.5
8452400.0000 8453400.0000	25	G 1 1 NPT	3.5	10	0	10.0	14.0	1.8
8452500.0000 8453500.0000	32	G 1 1/4 1 1/4 NPT	3.5	10	0	7.0	23.0	2.4
8452600.0000 8453600.0000	40	G 1 1/2 1 1/2 NPT	3.5	10	0	4.5	30.0	2.7
8452700.0000 8453700.0000	50	G 2 2 NPT	3.5	10	0	3.0	37.0	3.9

^{*} with gases and liquid fluids up to 600 mm²/s (cSt)

♦ Note: 0000 without pilot valve

State voltage [V] and frequency [Hz]

Notes

for 3/2-way pilot valve 84660 / 84680

Material body brass

Pilot fluid temperature max. +60 °C

Pilot pressure: 1 − 10 bar

Standard voltages: 24 V DC, 24 V AC, 230 V AC

Electrical Data

for 3/2-way pilot valve 84660 / 84680

Design acc. to DIN VDE 0580 Voltage range ±10 % Duty cycle (ED) 100 %

Protection class to EN 60529 IP65 with mounted Socket

Socket acc. to DIN EN 175301-803A

Notes

for 3/2-way pilot valve 97100 hole pattern NAMUR

Material body aluminium elox

Pilot fluid temperature -10 °C to +50 °C

Pilot pressure: 2 - 8 bar

Standard voltages 24 V DC, 24 V AC, 230 V AC

Electrical Data

for 3/2-way pilot valve 97100 hole pattern NAMUR

Design acc. to DIN VDE 0580 Voltage range ±10 % Duty cycle (ED) 100 %

Protection class to EN 60529 IP65 with mounted Socket

Socket acc. to DIN EN 175301-803A

Further Options (Valves)

XXXXX**01**.XXXX Normally open, closes with pilot pressure and

opens with spring force (pilot pressure 1 – 10 bar)

XXXXX**08**.XXXX Double acting:

4/2 or 5/2-way-pilot valve required

XXXXX22.XXXX Higher operating pressure

XXXXX23.XXXX Double electrical position indicator

XXXXX50.XXXX NAMUR interface plate

On Request Further versions

several seals: NBR, FPM, EPDM stroke limiter, silencer, electrical position indica tor with magnet inductive operated

Mounting accessories (NAMUR)

Interface plate NAMUR hole pattern for retrofit,

(part number 1256566) consist of:

1x NAMUR interface plate 2x Adapter screw

2x 0-ring

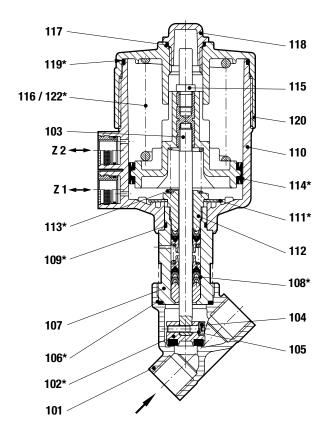


^{**} C_V-value (US) ≈ k_V-value x 1.2

^{***} without pilot valve



Section View



- 101 Valve body
- *102 Valve plate
- 103 Valve spindle, complete
- 104 Cheese head cap screw
- 105 Spring washer
- *106 Seal ring
- 107 Screw piece
- *108 Seal packing
- *109 O-ring
- 110 Control head housing cover, bottom part
- *111 Cup spring
- 112 Screw piece
- *113 Pressure spring

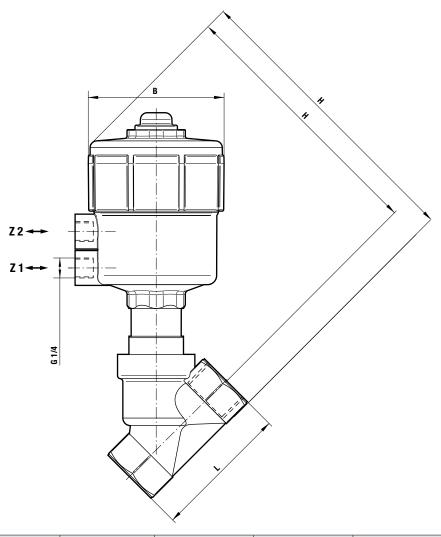
- *114 Cylinder packing
- 115 Signal pin
- *116 Pressure spring
- *117 O-ring
- 118 Cover cap
- *119 O-ring
- 120 Control head housing cover
- *122 Pressure spring

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



General Dimensions

Actuator may be rotated 360°



Part Number	Nominal Diameter (mm)	Connection Size	L (mm)	B (mm)	H (mm)	H1 (mm)
8452200.0000 8453200.0000	15	G 1/2 1/2 NPT	65	89.5	177.5	164.0
8452300.0000 8453300.0000	20	G 3/4 3/4 NPT	75	89.5	184.0	168.0
8452400.0000 8453400.0000	25	G 1 1 NPT	90	89.5	194.5	174.0
8452500.0000 8453500.0000	32	G 1 1/4 1 1/4 NPT	110	89.5	209.5	184.5
8452600.0000 8453600.0000	40	G 1 1/2 1 1/2 NPT	120	89.5	208.5	186.0
8452700.0000 8453700.0000	50	G 2 2 NPT	150	89.5	229.5	194.5

Note to Pressure Equipment Directive (PED):

The valves of this series, including the connection size DN 25 (G 1), 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 refers not to the PED. Thus the declaration of conformity is not longer applicable for this directive.

For valves > DN 25 (G 1) Art. 3 § (1) No.1.4 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 (2004/108/EG) satisfield.

