

## 2/2-way valves DN 15 to DN 25

For aggressive gases and liquids

Pressure actuated by external fluid

Seat valves

Connection DIN 11850 or ISO-welded ends

Operating pressure 0 up to 16 bar (see technical data)



84760

84770

### Description (standard valve)

Switching function:	normally closed
Flow direction:	determined
Mounting position:	as required

### Process fluid characteristics / Valve material

Fluid temperature:	-10 °C up to max. +180 °C
Ambient temperature:	-10 °C up to max. +60 °C
Body:	Stainless steel (1.4581)
Seat seal:	PTFE
Internal parts:	Stainless steel
Spindle sealing:	PTFE / FPM, self-adjusting

### Pilot fluid characteristics / Actuator material

Pilot fluid:	neutral gases
Fluid temperature:	max. +60 °C
Body:	Polyamid 66 with 30 % fibre glass
Seal:	NBR
Internal parts:	Brass, Stainless steel

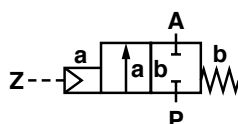


### Features

- Optical position indicator is standard
- Damped closing (valve closes against flow direction)
- Suitable for contaminated process fluids
- Suitable for vacuum up to max. 90 %
- Reversed flow direction optional
- High flow rate

Optional pressure actuation by liquid pilot fluids

### Symbol



### Ordering Information

To order, quote model number from table overleaf, e.g. 8477400.0000 for a DN 25 valve with ISO-welded ends.

## Characteristic data

### Valves

Part Number ◊	Nominal Diameter (mm)	Connection to DIN 11850	Operating pressure *		k <sub>v</sub> -value ** (Base m <sup>3</sup> /h)	Weight (kg) ***
			min. (bar)	max. (bar)		
8476200.0000 8477200.0000	15	Series 1 ISO	0	16	4.8	1.3
8476300.0000 8477300.0000	20	Series 1 ISO	0	8	10.0	1.4
8476400.0000 8477400.0000	25	Series 2 ISO	0	5	14.0	1.7

\* for gases and liquid fluids up to 600 mm<sup>2</sup>/s (cSt)

State voltage [V] and frequency [Hz]

\*\* C<sub>v</sub>-value (US) ≈ k<sub>v</sub>-value x 1.2

\*\*\* without pilot valve

◊ Note: **0000** without pilot valve  
**9101** with pilot valve for DC and AC  
**3037** NAMUR- pilot valve 97100  
**9151** with pilot valve for DC and AC for quick exhausting

Pilot pressure 3.5 - 10 bar, pilot connection Z2  
Pilot pressure 1 - 10 bar, pilot connection Z1

## Notes

### for 3/2-way pilot valve 84660/84680

Material body brass 2.0402  
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

Technical data see publication D111402  
Design acc. to DIN VDE 0580  
Voltage range ± 10 %  
Duty cycle (ED) 100 %  
Protection class acc.to EN 60529 IP65  
Socket acc.to DIN EN 175301-803 (included)

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

## Data

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

Technical data see publication 7503389.XX.XX.XXXX  
Design acc. to DIN VDE 0580  
Voltage range ± 10 %  
Duty cycle (ED) 100 %  
Protection class acc.to EN 60529 IP65  
Socket acc.to DIN EN 175301-803 (included)

## Further Options (Valves)

XXXXX03.XXXX Seat seal FPM,  
max. fluid temperature +110 °C

XXXXX06.XXXX Seat seal PTFE,  
max. fluid temperature +110 °C

XXXXX01.XXXX Normally open,closes with pilot pressure and  
opens with spring force (pilot pressure 1–10 bar)

XXXXX08.XXXX Double acting; 4/2 or 5/2-way-pilot valve required

XXXXX23.XXXX Double electrical position indicator

XXXXX50.XXXX NAMUR interface plate

On request several seals: NBR, FPM, EPDM  
stroke limiter  
silencer

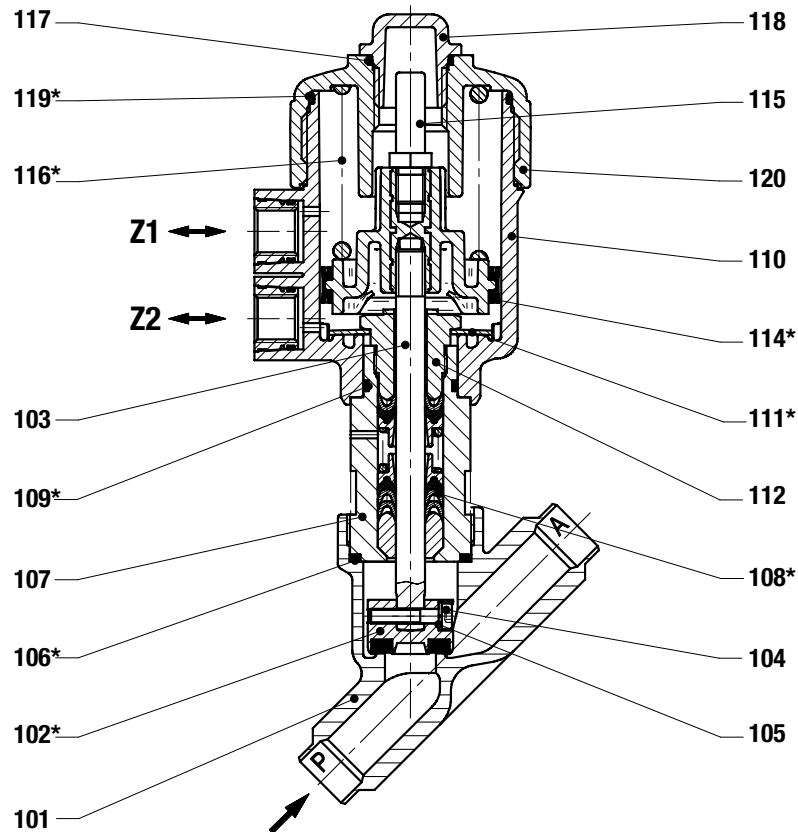
## Mounting accessories

### NAMUR

Interface plate NAMUR hole pattern for retrofit,  
(part number 1256566) consist of:

- 1 x NAMUR interface plate
- 2 x Adapter screw
- 2 x O-ring

## Section View

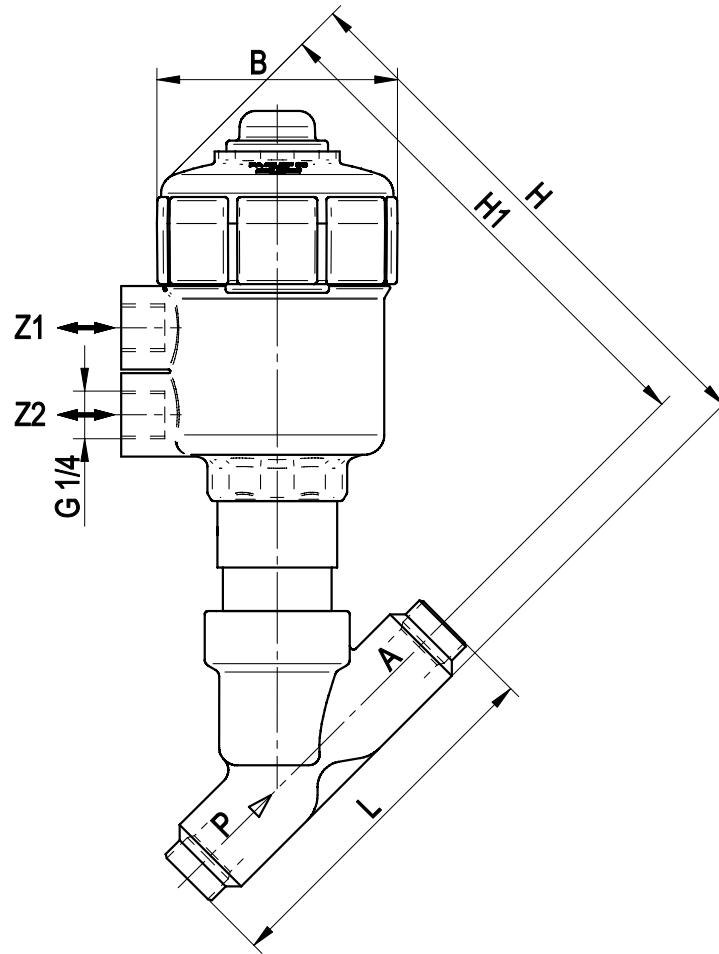


- 101 Valve body
- \* 102 Valve plat
- 103 Valve spindle, complete
- 104 Cheese head cap screw
- 105 Spring washer
- \* 106 Seal ring
- 107 Screw piece
- \* 108 Seal packing
- \* 109 O-ring
- 110 Control head housing, bottom part
- \* 111 Cup spring
- 112 Screw piece
- \* 114 Cylinder packing
- 115 Signal pin
- \* 116 Pressure spring
- 117 O-ring
- 118 Cover cap
- \* 119 O-ring
- 120 Control head housing cover

\* 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 to DIN 11850	L (mm)	B* (mm)	H (mm)	H1 (mm)
8476200.0000 8477200.0000	15	Series 1 ISO	100	66	149.5	140.5
8476300.0000 8477300.0000	20	Series 1 ISO	110	66	156.0	145.0
8476400.0000 8477400.0000	25	Series 2 ISO	120	66	165.0	150.5

\* B = max. depth

#### 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 conformity 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 harmonised standards EN 61000-6-3 and EN 61000-6-1 are observed, and hence the requirements of the Electromagnetic Guideline (2004/108/EC) satisfied.