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)

OBSOLETE DOCUMENT
Technical Reference Only

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

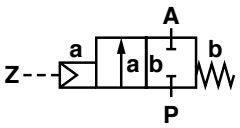
Pilot fluid:	neutral gases
Fluid temperature:	max. +60 °C
Body:	Polyamid 66 with 30 % fibre glass
Seal:	NBR
Internal parts:	Brass, Stainless steel

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.

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Valve Technology and Systems

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Characteristic data

Valves

Part Number ◊	Nominal Diameter (mm)	Connection to DIN 11850	Operating pressure * min. (bar)	max. (bar)	k_V-value ** (Base m^3/h)	Weight (kg) ***
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^2/s (cSt)
** C_V-value (US) ≈ k_V-value x 1.2
*** without pilot valve

State voltage [V] and frequency [Hz]

◊ 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)

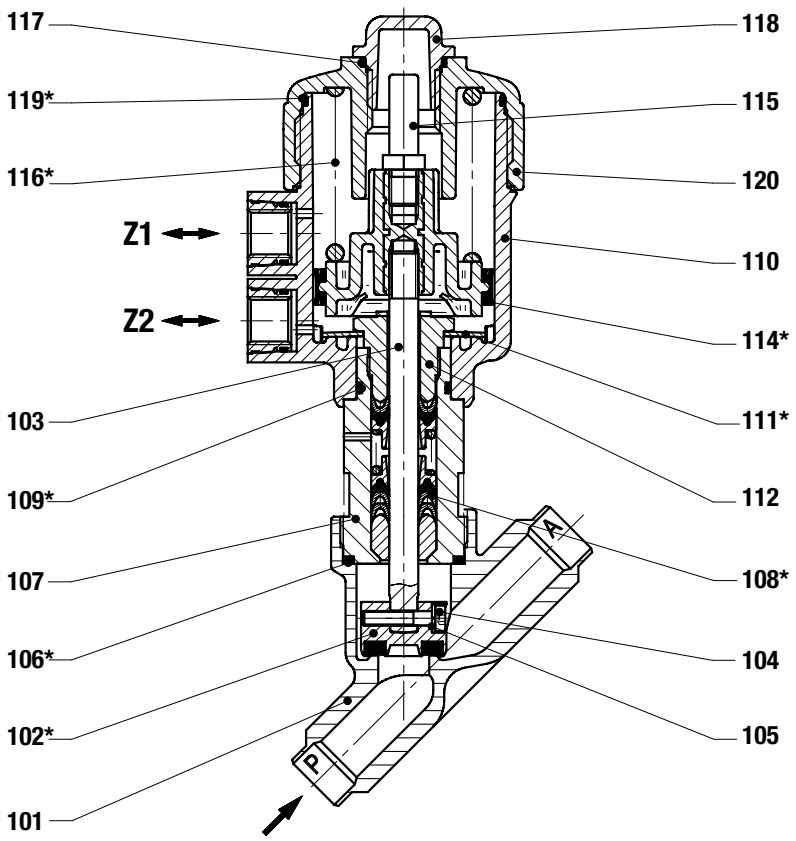
Further Options (Valves)

XXXXX**03**.XXXX	Seat seal FPM, max. fluid temperature +110 °C
XXXXX**06**.XXXX	Seat seal PTFE, max. fluid temperature +110 °C
XXXX**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
XXXXX**23**.XXXX	Double electrical position indicator
XXXXX**50**.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

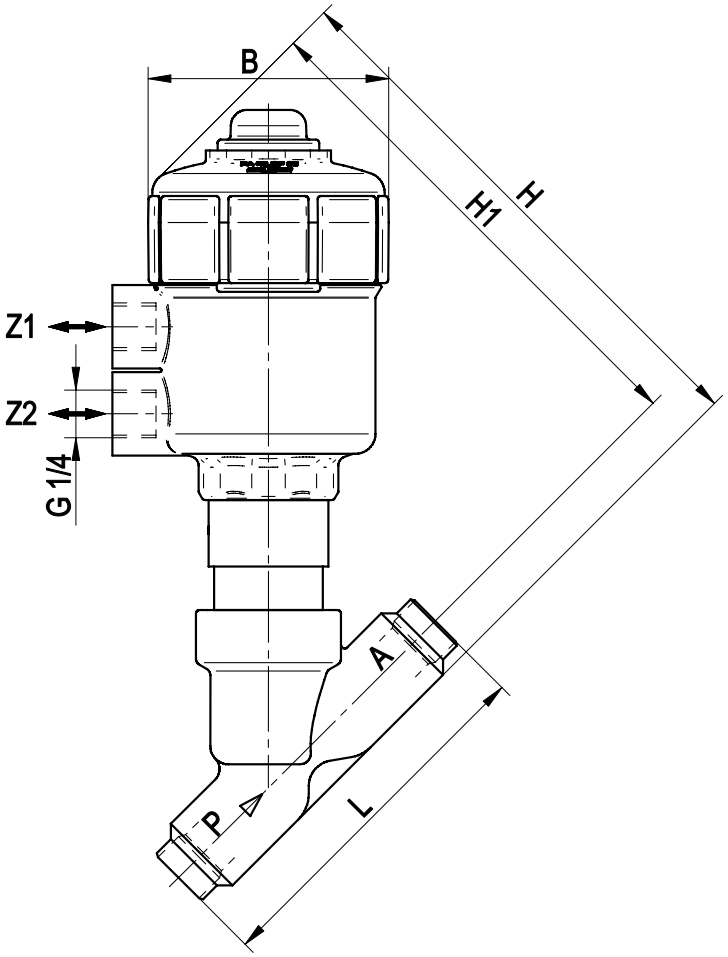


	101	Valve body
*	102	Valve plat
	103	Valve spindle,complete
	104	Cheese head cap screw
	105	Spring washer
*	106	Seal ring
	107	Screw piece
*	108	Seal packing
*	109	O-ring
	110	Control head housing,bottom part
*	111	Cup spring
	112	Screw piece
*	114	Cylinder packing
	115	Signal pin
*	116	Pressure spring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