2/2-way valves DN 15 to DN 50

for aggressive gases and liquids
pressure actuated by external fluid
Seat valves
Internal threads G 1/2 to G 2 or 1/2" NPT to 2" NPT
Operating pressure see table page 2

84520
84530

Stainless Steel

Description (standard valve)

Flow direction:	fixed
Mounting position:	optional

Flow fluid range

Fluid temperature:	–10 °C up to max. +180 °C
Ambient temperature:	–10 °C up to max. +60 °C
Material body:	Stainless steel
Seat seal:	PTFE
Internal parts:	Sandvik 1802
Seal packing:	PTFE FPM self-adjustable

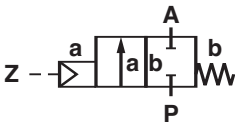
Pilot fluid range

Pilot fluid:	neutral gaseous fluids
Fluid temperature :	max. +60 °C
Material boby:	Polyamid 66 with glass fibre 30%
Seat seals :	NBR
Internal parts:	Brass (2.0402), 1.4404, 1.4310, 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. 84 522 00.0000 for a G 1/2 valve without pilot valve.

Characteristic data See page 2 valve and solenoid informations.

Detmolder Straße 256
D-32545 Bad Oeynhausen

Postfach 10 02 52-53
D-32502 Bad Oeynhausen

Telefon 05731 / 7 91-0
Telefax 05731 / 791-179

http://www.buschjost.de
mail@buschjost.de

Characteristic data

Valves

Part Number •	Nominal Diameter (mm)	Port size	Pilot pressure min.	max. (bar)	Operating pressure * min	max (bar)	kv-value *** (Base m^3/h)	Weight ** (kg)
84 522 00.0000 84 532 00.0000	15	G 1/2 1/2" NPT	3,5	10	0	16,0 (40)	4,80	1,4
84 523 00.0000 84 533 00.0000	20	G 3/4 3/4" NPT	3,5	10	0	10,0 (16)	10,00	1,5
84 524 00.0000 84 534 00.0000	25	G 1 1" NPT	3,5	10	0	10,0	14,00	1,8
84 525 00.0000 84 535 00.0000	32	G 1 1/4 1 1/4" NPT	3,5	10	0	7,0	23,00	2,4
84 526 00.0000 84 536 00.0000	40	G 1 1/2 1 1/2" NPT	3,5	10	0	4,5	30,00	2,7
84 527 00.0000 84 537 00.0000	50	G 2 2" NPT	3,5	10	0	3,0	37,00	3,9

• note: 0000 without pilot valve
0164 with pilot valve for DC
0165 with pilot valve for AC

State voltage [V] and frequency [Hz]

* with gaseous and liquid fluids up to 600 mm^2/s (cSt)
** without pilot valve
*** C_V-value (US) ≈ k_V-value x 1,2

Notes for 3/2-way pilot valve

Material body brass 2.0402
Pilot fluid temperature max. +60 °C
Pilot pressure: p_{max} = 8 bar
Standard voltages: 24 V ⎓, 24 V ∿; 230 V∿

Data for 3/2-way pilot valve

Technical data see publication D107901
Dsign acc. to 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 hole pattern NAMUR

Material body aluminium elox
Pilot fluid temperature –10 °C bis +60 °C
Pilot pressure pmax = 10 bar
Standard voltages 24 V ⎓, 24 V ∿, 230 V ∿
Design acc. to 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 hole pattern NAMUR

Technical data see publication 7503035.XX.XX.XXXX
Design acc. to VDE 0580
Voltage range ±10%
Duty cycle (ED) 100%
Protection class acc. to EN 60529 IP65
Socket acc. to DIN EN 175301-803 (included)

Options

available at extra cost

XX XXX **01.**XXXX	Normally open, closes with pilot pressure and opens with spring force (pilot pressure 1 – 10 bar)
XX XXX **08.**XXXX	Double acting; 4/2 or 5/2-way-pilot valve required
XX XXX **22.**XXXX	Higher operating pressure
XX XXX **23.**XXXX	Double electrical position indicator
XX XXX **50.**XXXX	NAMUR interface plate

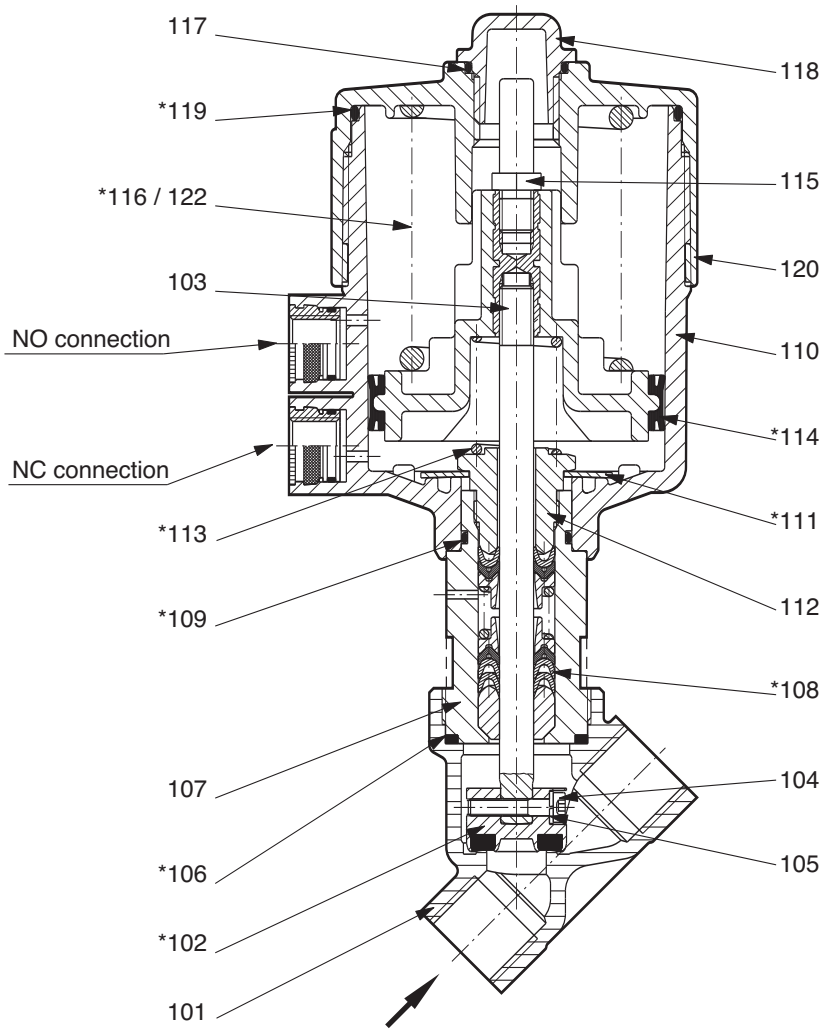
On Request	several seals: NBR, FPM, EPDM stroke limiter silencer electrical position indicator with proximity switch DIN or ISO welded ends

Mounting accessories

NAMUR

Interface plate NAMUR hole pattern for retrofit,
(part number 12 565 66) consist of:
1x NAMUR interface plate
2x Adapter screw
2x O-ring

Section view

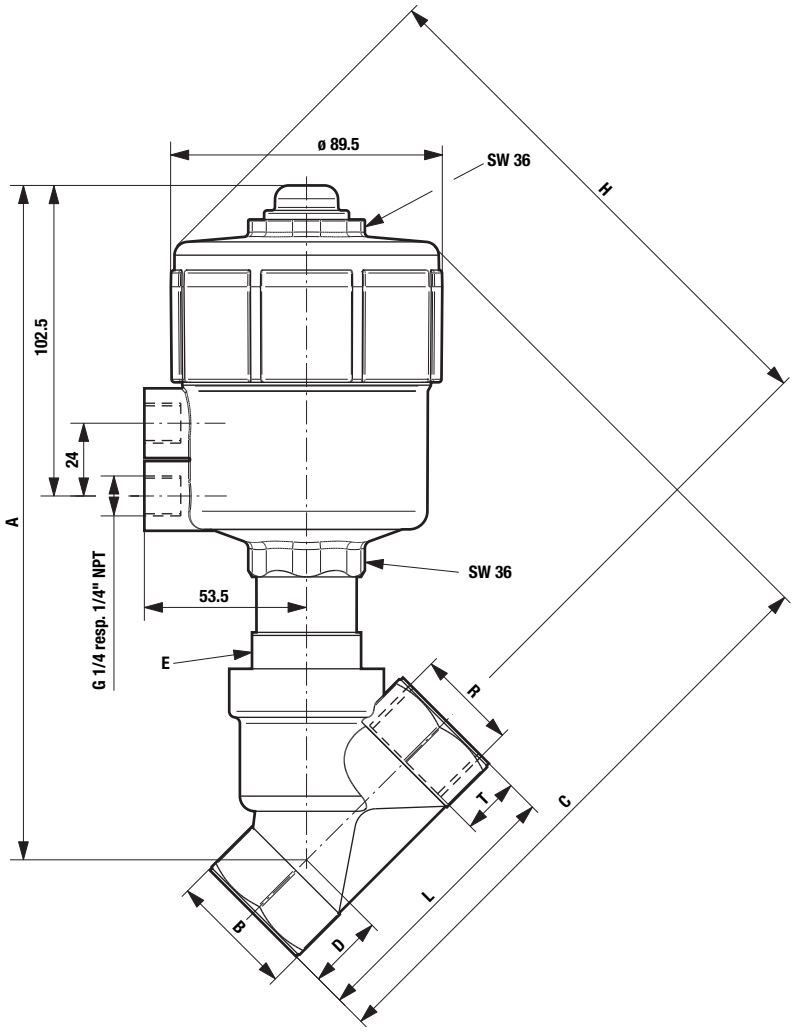


101	Valve body	
* 102	Valve plate	
103	Valve spindele, complete	
104	Cheese head cap screw	
105	Spring washer	
* 106	Seal ring	
107	Screw piece	
* 108	Seal packing	
* 109	O-ring	
110	Control head housing cover, bottom part	
* 111	Cup spring	
112	Screw piece	
* 113	Pressure spring	
* 114	Cylinder packing	
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	A	B	C	D	E	H	L	R	T
84 522 00.0000 84 532 00.0000	204,5	SW 27	183,0	18,5	SW 30	164,0	65	G 1/2 1/2" NPT	15,0 13,0
84 523 00.0000 84 533 00.0000	213,5	SW 32	189,0	21,0	SW 36	168,0	75	G 3/4 3/4" NPT	16,5 14,0
84 524 00.0000 84 534 00.0000	221,5	SW 41	199,0	25,0	SW 36	174,0	90	G 1 1" NPT	19,0 16,5
84 525 00.0000 84 535 00.0000	236,5	SW 50	212,5	28,5	SW 41	184,5	110	G 1 1/4 1 1/4" NPT	21,5 17,0
84 526 00.0000 84 536 00.0000	238,5	SW 55	217,0	31,0	SW 41	186,0	120	G 1 1/2 1 1/2" NPT	21,5 17,0
84 527 00.0000 84 537 00.0000	250,5	SW 70	234,5	40,0	SW 41	194,5	150	G 2 2" NPT	26,0 17,5

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 50081-1 and EN 50082-1 are observed, and hence the requirements of the Electromagnetic Compatibility Guideline (89/336/EEC) satisfield.