84740/84750
2/2-way seat valves



- Port size: DN 15 ... 25, 1/2 ... 1 (ISO G/NPT)
- 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
- Option pressure actuated by external liquid fluid

Technical features

Medium:
Aggressive gases and liquids

Pilot fluid:
Neutral gases max. +60°C (+140°F)

Switching function:
Normally closed

Operation:
Pressure actuated by external fluid

Mounting position:
Optional

Flow direction:
Determined

Port size:
G1/2, G3/4, G1,
1/2 NPT, 3/4 NPT, 1 NPT

Pilot connection:
G1/4 or 1/4 NPT

Operating pressure:
See table

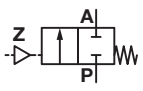
Pilot pressure:
3,5 ... 10 bar (51 ... 145 psi)

Fluid temperature:
–10 ... +180°C (+14 ... +356°F)

Ambient temperature:
–10 ... +60°C (+32 ... +140°F)

Material:
Process fluid characteristics:
Body: Stainless steel
Seat seal: PTFE
Internal parts: Stainless steel
Spindle sealing: PTFE / FPM; self-adjustable
Pilot fluid characteristics:
Body: Polyamid 66 with glass fibre 30%
Seat Seals: NBR
Internal parts: Brass, Stainless steel

Technical data – standard models

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m^3/h)	Operating pressure *2) (bar)	(psi)	Weight *3) (kg)	Model *3)
	G1/2	15	4,8	0 ... 16	0 ... 232	1,3	8474200.0000.00000
	1/2 NPT	15	4,8	0 ... 16	0 ... 232	1,3	8475200.0000.00000
	G3/4	20	10	0 ... 8	0 ... 116	1,4	8474300.0000.00000
	3/4 NPT	20	10	0 ... 8	0 ... 116	1,4	8475300.0000.00000
	G1	25	14	0 ... 5	0 ... 72	1,7	8474400.0000.00000
	1 NPT	25	14	0 ... 5	0 ... 72	1,7	8475400.0000.00000

*1) Cv-value (US) ≈ kv value x 1,2
*2) For gases and liquid fluids up to 600 mm^2/s (cSt)
*3) Without pilot valve

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Option selector

847★★★★.0000.00000

Thread form	Substitute
ISO G	4
NPT	5
Port size	**Substitute**
1/2	2
3/4	3
1	4

Valve options	Substitute
Normally open (NO), closes with pilot pressure and opens with spring force (pilot pressure 1 ... 10 bar (14 ... 145 psi))	01
Double acting, 4/2 or 5/2-way-pilot valve required	08
Electrical position indicator with 2 micro-switches protection class IP65	23
NAMUR interface plate	50
Includes Ex version. II 2G Ex h IIC T6...T3 Gb II 2D Ex h IIIC T85°C...T180°C For use of these valves in potentially explosive areas of category 2. The maximum permissible fluid temperature is reduced to +85°C!	98

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

Material	Body Aluminium
Pilot fluid temperature	max. +60°C (+140°F)
Pilot pressure	1 ... 10 bar (14 ... 145 psi)
Standard voltages	24 V d.c., 24 V a.c., 230 V a.c.

Electrical Data for 3/2-way pilot valve 84660 / 84680

Design acc. to	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65 with mounted socket
Socket	Form A acc. to DIN EN 175301-803 (included)
Technical data	See publication N/en 5.8.640

Further versions on request!

Notes for 5/2-way pilot vale 97100 hole pattern NAMUR

Material	Body Aluminium elox
Pilot fluid temperature	–10 ... +50°C (+14 ... +122°F)
Pilot pressure	2 ... 8 bar (29 ... 116 psi)
Standard voltages	24 V d.c., 24 V a.c., 230 V a.c.

Electrical Data for 5/2-way pilot valve 97100 hole pattern NAMUR

Design acc. to	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65 with mounted socket
Socket	Form A acc. to DIN EN 175301-803 (included)
Technical data	See publication N/en 5.4.372

Mounting accessories (NAMUR)

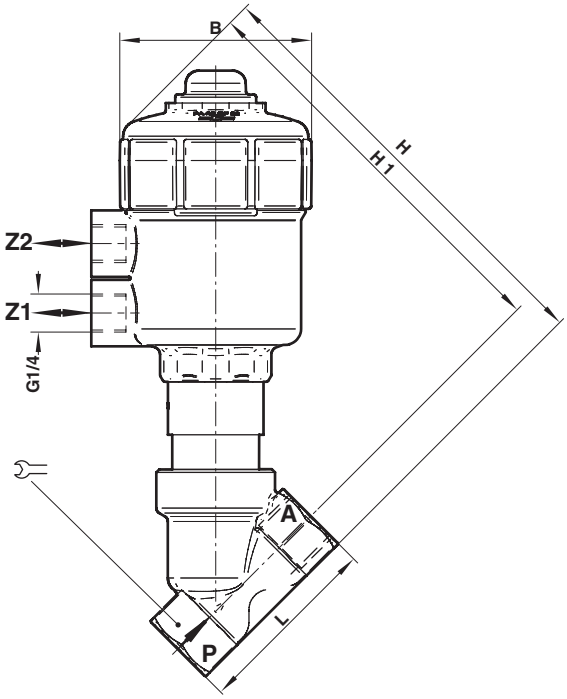
Interface plate NAMUR hole pattern for retrofit
(Part-Number 1256566) consist of:
1x NAMUR-interface plate; 2x Adapter screw; 2x O-ring

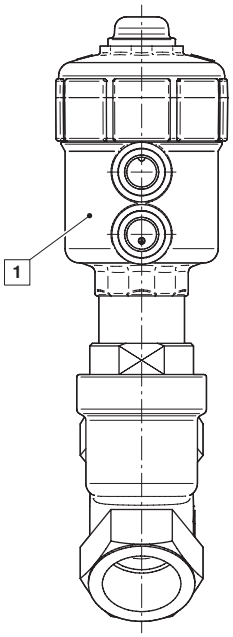
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Dimensions

G1/2 ... 1
1/2 ... 1 NPT

Dimensions in mm
Projection/first angle





1 Actuator may be rotated 360°

Port size	B	H	H1	L	⌲	Model
G1/2	66	154	140,5	65	27	8474200.0000.00000
1/2 NPT	66	154	140,5	65	27	8475200.0000.00000
G3/4	66	160	144,5	75	32	8474300.0000.00000
3/4 NPT	66	160	144,5	75	32	8475300.0000.00000
G1	66	171	150,5	90	41	8474400.0000.00000
1 NPT	66	171	150,5	90	41	8475400.0000.00000

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) satisfield.

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