

- > Port size: DN 15 ... 50, G1/2 ... 2
- Any flow direction and mounting position
- > Special seal materials are required for use with oil and oleiferous media
- > International approvals





## **Technical features**

Medium:

Neutral gases and liquid fluids

Pilot Fluid:

Air max. +40°C

Switching function:

Normally closed; closed by spring force, opened by pilot pressure

Operation:

Pressure actuated by external fluid

Mounting position:

Optional

Flow direction:

Optional

Port size:

G1/2, G3/4, G1, G1 1/4, G1 1/2, G2

Pilot connection:

G1/4

Operating pressure:

0 ... 10 bar (0 ... 145 psi)

Pilot pressure:

5,5 ... 7 bar (80 ... 98 psi)

#### Fluid temperature:

-10 ... +80°C (+14 ... +176°F) Ambient temperature:

-10 ... +55°C (+14 ... +131°F)

#### Material:

Process fluid characteristics: Body: Grey cast iron Seat seal: EPDM Pilot fluid characteristics: Body: Polymer material Seal: NBR

Internal parts: Coated Steel

## Technical data - standard models

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m³/h)	Operating p (bar)	ressure *2) (psi)	Weight *3) (kg)	Model *3)
Z W	G1/2	15	7	0 10	0 145	1,9	8335200.0000.00000
	G3/4	20	15	0 10	0 145	2	8335300.0000.00000
	G1	25	20	0 10	0 145	2,3	8335400.0000.00000
	G1 1/4	32	37	0 10	0 145	4,5	8335500.0000.00000
	G1 1/2	40	41	0 10	0 145	4,9	8335600.0000.00000
	G2	50	82	0 10	0 145	8,6	8335700.0000.00000

<sup>\*1)</sup> Cv-value (US) ≈ kv value x 1,2



<sup>\*2)</sup> For gases and liquid fluids up to 400 mm²/s (cSt)

<sup>\*3)</sup> Without pilot valve



# **Option selector**

# 8335\*\*\*.0000.00000

Subst	Valve options
	Normally open (NO),
	closed by spring force, opened by pilot pressure
	(Pilot pressure 1 5,5 bar
	(14 79 psi))
	Seat seal FPM
	Seat seal PTFE
	Body material Stainless steel
	Electrical position indicator a.c.
	/ d.c.
	Electrical position indicator only
	d.c. max. 30 V
	Electrical position indicator EEx de IIC T6

#### **Notes**

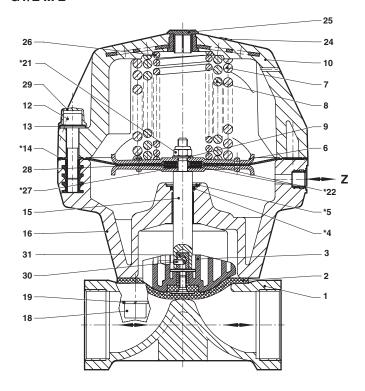
# for 3/2-way pilot valve 84660 / 84680

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

Further versions on request!

## **Section View**

# G1/2 ... 2



# 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

No.	Description				
1	Valve body				
2	Shut diaphragm				
3	Thrust collar				
*4	Quad-seal-ring				
*5	Lock washer				
6	Diaphragm disk				
7	Pressure spring				
8	Pressure spring				
9	Washer				
10	Upper part				
12	Screw				
13	Washer				
*14	Diaphragm				
15	Spindle				
16	Base, complete				

No.	Description
18	Screw
19	Spring washer
*21	Uni-Stop-nut
*22	Gasket
24	Material plate
25	Sealing cap
26	Pressure spring
*27	O-ring
28	Distance ring
29	Cover
30	Straight pin
31	Tappet

When ordering spare parts please state Model No. and Series No.  $\,$ 

<sup>\*</sup> These individual parts form a complete wearing unit.



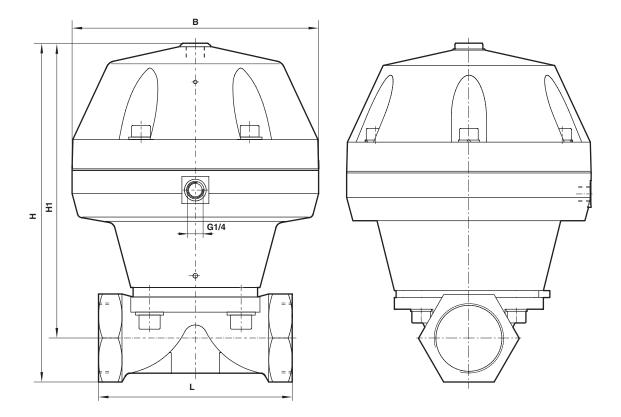
#### **Dimensions**

G1/2 ... 2

Dimensions in mm Projection/First angle







Port size R	В	Н	H1	L	Model
G1/2	125	164	148	5	8335200.0000.00000
G3/4	125	168,5	148	85	8335300.0000.00000
G1	125	171	148	110	8335400.0000.00000
G1 1/4	155	230,5	203	120	8335500.0000.00000
G1 1/2	155	235,5	203	140	8335600.0000.00000
G2	210	285,5	248	165	8335700.0000.00000

## 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.

# Note to EAC marking:

The EAC-marked products comply with the applicable requirements stated in the technical regulations of the Eurasian Economic Union.