

## Fluid Control

**IMI Buschjost** 

# 84500/84510 2/2-way seat valves

- Port size: DN 15 ... 50, 1/2 ... 2 (ISO G/NPT)
- 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
- Option pressure actuated by external liquid fluid
- International approvals



## **Technical features**

Medium:

Neutral gases and liquids

Pilot fluid:

Neutral gases max. +60°C (+14°F)

Switching function: Normally closed

Operation:

Pressure actuated by external fluid

Mounting position:

Optional

Flow direction: Determined

Port size:

G1/2, G3/4, G1, G1 1/4, G1 1/2, G2 1/2 NPT, 3/4 NPT, 1 NPT, 1 1/4 NPT, 1 1/2 NPT, 2 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 (+14 ... +140°F)

Material:

<u>Process fluid characteristics:</u> Body: Dezincification Brass

(CW617N) Seat seal: PTFE

Internal parts: Brass, 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	Flow kv value *1)	Operating pressure *2)		Weight *3)	Model *3)
		(mm)	(m <sup>3</sup> /h)	(bar)	(psi)	(kg)	
Z A T	G1/2	15	4,8	0 16 (25)	0 232 (362)	1,4	8450200.0000.00000
	1/2 NPT	15	4,8	0 16 (25)	0 232 (362)	1,4	8451200.0000.00000
	G3/4	20	10	0 10 (16)	0 145 (232)	1,5	8450300.0000.00000
	3/4 NPT	20	10	0 10 (16)	0 145 (232)	1,5	8451300.0000.00000
	G1	25	14	0 10	0 145	1,8	8450400.0000.00000
	1 NPT	25	14	0 10	0 145	1,8	8451400.0000.00000
	G1 1/4	32	23	0 7	0 101	2,4	8450500.0000.00000
	1 1/4 NPT	32	23	0 7	0 101	2,4	8451500.0000.00000
	G1 1/2	40	30	0 4,5	0 65	2,7	8450600.0000.00000
	1 1/2 NPT	40	30	0 4,5	0 65	2,7	8451600.0000.00000
	G2	50	37	0 3	0 43	3,9	8450700.0000.00000
	2 NPT	50	37	0 3	0 43	3,9	8451700.0000.00000

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

#### E Note ■

For hazordous areas, e. g. Zone 1/2 or 21/22, the kit 1264287 is required. It contains an additional sign, a silencer as dust shield and a conformity explanation. The maximum fluid temperature is reduced to 85°C.

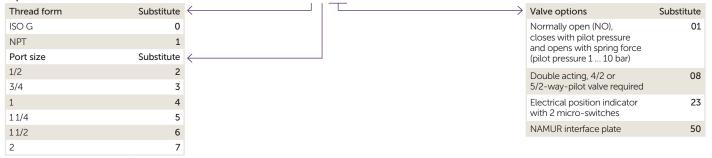
<sup>\*2)</sup> For gases and liquid fluids up to 600 mm<sup>2</sup>/s (cSt)

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



#### Option selector

## 845 \*\* \*\*.0000.00000



#### 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	<u>+</u> 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 (14 116 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	<u>+</u> 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



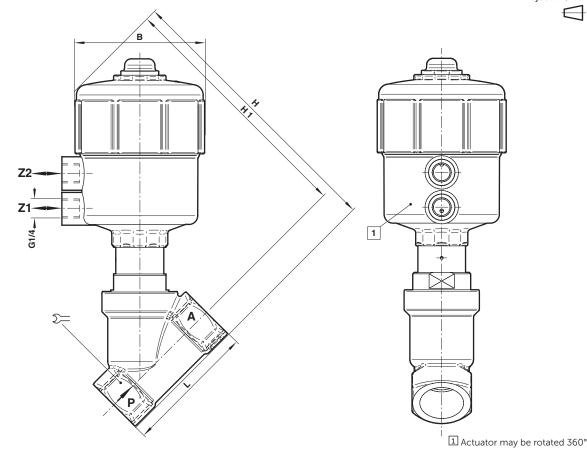
**Dimensions** 

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

Dimensions in mm Projection/first angle







Port size	В	Н	H1	L	Σ=	Model
G1/2	89,5	177,5	164	65	27	8450200.0000.00000
1/2 NPT	89,5	177,5	164	65	27	8451200.0000.00000
G3/4	89,5	184	168	75	32	8450300.0000.00000
3/4 NPT	89,5	184	168	75	32	8451300.0000.00000
G1	89,5	194,5	174	90	41	8450400.0000.00000
1 NPT	89,5	194,5	174	90	41	8451400.0000.00000
G1 1/4	89,5	209,5	184,5	110	50	8450500.0000.00000
11/4 NPT	89,5	209,5	184,5	110	50	8451500.0000.00000
G1 1/2	89,5	208,5	186	120	55	8450600.0000.00000
11/2 NPT	89,5	208,5	186	120	55	8451600.0000.00000
G2	89,5	229,5	194,5	150	70	8450700.0000.00000
2 NPT	89,5	229,5	194,5	150	70	8451700.0000.00000

## 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:

06/24

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.