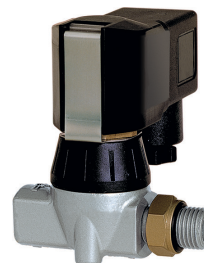


84660/84670/84680/84690

3/2-way valves

- > Port size:
DN 1,6 and 3
- > Compact design
- > Complete with
connector and gasket
- > Solenoid
interchangeable
without tools (Click-on®)
- > Noiseless exhaust
- > Low power
consumption
- > International approvals

Click-on®



Technical features

Medium:

Filtered, lubricated
resp. non-lubricated air or
neutral liquid fluids

Switching function:

Normally closed

Operation:

Indirectly solenoid actuated

Mounting:

Optional, preferably solenoid
vertical on top

Flow direction:

Determined

Port size:

DN 1,6, DN 3

Operating pressure:

1 ... 10 bar (14,5 ... 145 psi)

Fluid temperature:

-10 ... +60°C (+14 ... +140°F)

Ambient temperature:

-10 ... +60°C (+14 ... +140°F)

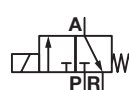
Material:

Body: Aluminium

Seat seal: TPU

Internal parts: Stainless steel, PPS

Technical data – standard models

Symbol	Orifice	Port size			Flow *2)	Operating pressure	Switching time *3)		Weight	Model	Model
		(mm)	Internal P	External R			A	(l/min)			
	1,6	G1/4	*1)	G1/4	1,2	1 ... 10	8,5	30,4	0,47	8466000.9101.xxxxx	8466000.9101.xxxxx
	1,6	1/4 NPT	*1)	1/4 NPT	1,2	1 ... 10	8,5	30,4	0,47	8467000.9101.xxxxx	8467000.9101.xxxxx
	3	G1/4	*1)	G1/4	3,3	1 ... 10	15	81,9	0,45	8468000.9151.xxxxx	8468000.9151.xxxxx
	3	1/4 NPT	*1)	1/4 NPT	3,2	1 ... 10	15	81,9	0,45	8469000.9151.xxxxx	8469000.9151.xxxxx

xxxxx Please insert voltage and frequency codes

*1) Noiseless exhaust

*2) Cv-value (US) = kv-value x 1,2

*3) At 6 bar acc. to DIN VDI 3290 with solenoid in d.c.

Option selector

Thread form/Port size	Substitute
ISO G (DN 1,6)	6
NPT (DN 1,6)	7
ISO G (DN 3)	8
NPT (DN 3)	9
Valve options	Substitute
Manual override	02
Connection P female thread G1/8	53
Connection A male thread G1/8	

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Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See table voltage codes	xxx
Solenoid options	Substitute
DN 1,6	9101
DN 3	9151

Standard solenoid systems

Voltage and Frequency Solenoid 9101 *4)					
Code	Code	Voltage	Frequency	Power consumption	
Voltage	Frequency			Inrush	Holding
024	00	24 V d.c.	-	8 W	8 W
024	50	24 V a.c.	50 Hz	15 VA	12 VA
110	50	110 V a.c.	50 Hz	15 VA	12 VA
120	60	120 V a.c.	60 Hz	15 VA	12 VA
230	50	230 V a.c.	50 Hz	15 VA	12 VA
Voltage and Frequency Solenoid 9151 *4)					
024	00	24 V d.c.	-	18 W	18 W
024	50	24 V a.c.	50 Hz	45 VA	35 VA
110	50	110 V a.c.	50 Hz	45 VA	35 VA
120	60	120 V a.c.	60 Hz	45 VA	35 VA
230	50	230 V a.c.	50 Hz	45 VA	35 VA



*4) c US only

Further versions on request!

Electrical details for all solenoid systems

Design	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65
Socket	Form A acc. to DIN EN 175301-803 (included)

According to DIN VDE 0580 at a solenoid temperature of +20°C.

At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

Additional solenoid systems for hazardous areas

ATEX category	ATEX protection class	IP protection class	Solenoid	Standard voltages
II 2G II 2D	Ex eb mb IIC T4 Gb Ex mb tb IIIB T125°C Db	IP66	6106	24 V d.c., 110 V a.c., 230 V a.c.
II 2G II 2D	Ex eb mb IIC T3 Gb Ex mb tb IIIB T140°C Db	IP66	6120	24 V d.c., 110 V a.c., 230 V a.c.
II 3G II 3D	Ex ec IIC T4 Gc Ex tc IIIC T130°C Dc	IP65	9116	24 V d.c., 110 V a.c., 230 V a.c.
II 3G II 3D	Ex ec IIC T4 Gc Ex tc IIIC T130°C Dc	IP65	9176	24 V d.c., 110 V a.c., 230 V a.c.

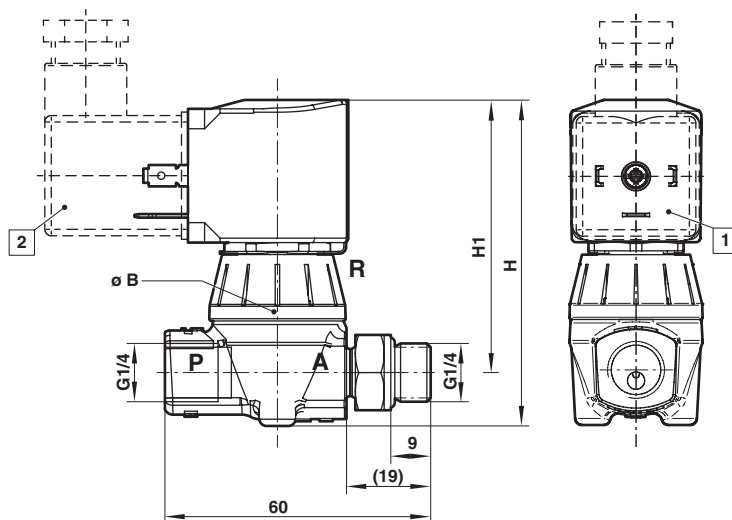
Attention!

The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids.

Dimensions

DN 1,6 ... 3

Dimensions in mm
Projection/First angle



1 Solenoid rotatable 360°

2 Socket turnable 4 x 90°
(Socket included)

Orifice (mm)	ø B	H	H1	Model
1,6	31	73,6	61,5	8466000.9101.xxxx
1,6	31	73,6	61,5	8467000.9101.xxxx
3	31	91	79	8468000.9151.xxxx
3	31	91	79	8469000.9151.xxxx

Note to Pressure Equipment Directive (PED):

The valves of this series 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.

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) satisfied.

Note to EAC marking:

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