

# Accessories

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# FAST FIND GUIDE

**8493571.8821**  
Purge valves  
for use with a differential  
pressure regulator



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**849xxx.827x**  
2/2-way valves  
DN 3,2 ... DN 3,6  
Solenoid pilot operated



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**000000.8821**  
ETM pulse solenoids



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**000000.817x**  
Solenoids



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Solenoids



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**000000.428x**  
Solenoids for 16 mm sleeve diameter



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**000000.468x**  
Solenoids for 16 mm sleeve diameter



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**SK<sup>1)</sup> for 82900/82910**  
**SK<sup>1)</sup> for 83300/83310**  
2/2-way valves  
DN 20 ... DN 80



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**SK<sup>1)</sup> for 82960/82970/83320**  
2/2-way valves  
DN 20 ... DN 80



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**SKS<sup>2)</sup> for 82960/82970**  
2/2-way valves  
DN 80 (flange version)  
Remote pilot operated



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**SKS<sup>2)</sup> for 83320**  
2/2-way valves  
DN 20 ... DN 40  
Solenoid pilot operated



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**SKS<sup>2)</sup> for 83920**  
2/2-way valves  
DN 25 ... DN 65  
Pilot operated solenoid valve



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**SK<sup>1)</sup> for 83930**  
2/2-way valves  
DN 25 ... DN 65  
Pilot operated valve



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**SK<sup>1)</sup> for 83920**  
2/2-way valves  
DN 25 ... DN 65  
Pilot operated solenoid valve



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\*1) Service kits  
\*2) Service kits Solenoid

# 8493571.8821.xxxxx

Purge valves for use with a differential pressure regulator

- High flow rate
- Clear, compact design
- One-piece diaphragm
- Easy to maintain

## Technical Data

**Flow direction:**  
Fixed

**Mounting position:**  
Optional, preferably solenoid vertical on top

**Temperatures:**  
Depending on the complete valve

**Sum of fluid- and ambient temperature:**  
Max. +100°C

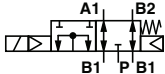
## Materials

**Body:**  
Brass

**Seat seal:**  
NBR,  
reinforced fabric diaphragm



## ● Technical data - standard models

Symbol	Port P	Regulator port	Filter port	Operating pressure (bar)	Differential pressure between measuring lines (bar)	Pulse duration (Sec.)	Interval (Sec./Min.)	Model
	G1/4	G1/8	G1/8	2 ... 8	Max. 0,2	0,05 ... 10	17 ... 120	8493571.8821.xxxxx

## ● Standard solenoid systems

Voltage and frequency solenoid 8821					
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V d.c.	-	10 W	10 W
110	50	110 V a.c.	50 Hz	11 VA	11 VA
120	60	120 V a.c.	60 Hz	11 VA	11 VA
230	50	230 V a.c.	50 Hz	50 VA	24 VA

Electrical details for all solenoid systems	
Design	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65

According to DIN VDE 0580.  
At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

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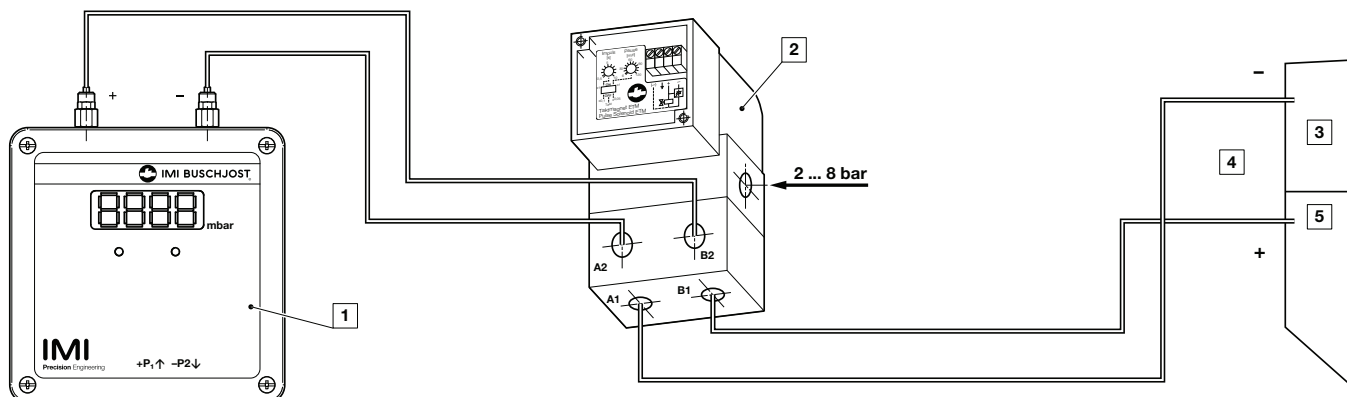
Purge valves for use with a differential pressure regulator

● Wiring

Length of line between:

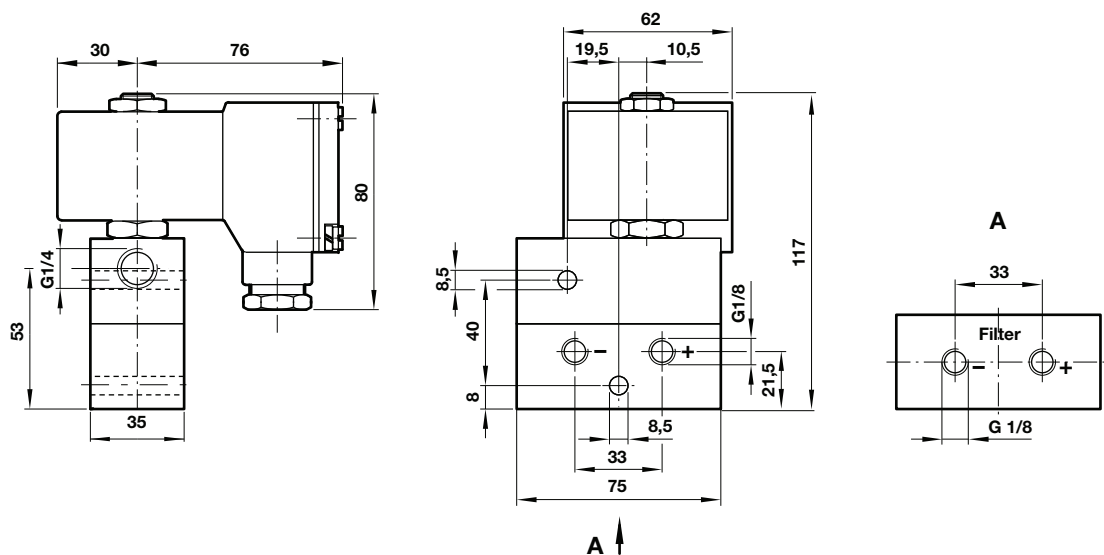
Differential pressure regulator/purge valve min. 1 m/max. 3 m

Purge valve/filter max. 10 m



- 1 Differential pressure regulator
- 2 Purge valve
- 3 Clean gas
- 4 Filter
- 5 Dusty gas

● Dimensions



● Operation

In filter systems coping with high dust levels the measuring lines to the differential pressure regulator can become blocked. The purge valve enables you to avoid this. Both measuring lines are cleared by short blasts of compressed air controlled by the solenoid valve. The dusty and clean air lines routed via the purge valve to the differential pressure regulator. The cleaning air is supplied via port P.

With short pulses and long intervals the pulse solenoid controls the valve which admits cleaning air into both measuring lines. Prior to the blast of air both measuring lines to the differential pressure regulator are safely shut off by nozzles that can be switched. The measuring line is only opened after the pressure has been reduced. The differential pressure regulator's display remains unchanged during the cleaning process.

## 849xxxx.827x.xxxxx

2/2-way valves, solenoid pilot operated  
ND 3,2 & ND 3,6

Click-on®



- High flow rate
- Simple, compact design
- Solenoid 8270 interchangeable without tools
- Silencer available
- Frost proof because of pressure-free core tube
- Click-on®

## Technical Data

**Medium:**  
Air

**Switching function:**  
Normally closed

**Flow direction:**  
Determined

**Mounting position:**  
Optional, preferably solenoid vertical on top

**Operating pressure:**  
0,4 ... 7/8 bar

**Orifice:**  
ND 3,2 & ND 3,6

**Temperatures:**  
Depending on the complete valve

## Materials

**Body:**  
Brass/plastic/stainless steel

**Seat seal:**  
TPU

**Internal parts:**  
1.4105, 1.4310

## ● Technical data - standard models

Symbol	Orifice (mm)	Material	Hose connection (mm)	Flow kv value *1) (m³/h)	Operating pressure (bar)	Weight (kg)	Model
	3,6	Brass	8	0,37	0,4 ... 7	0,22	8497503.8270.xxxxx
	3,6	Brass	6	0,30	0,4 ... 7	0,22	8497661.8270.xxxxx
	3,2	Plastic	8	0,37	1,5 ... 7,5	0,15	8498320.8274.xxxxx
	3,2	Plastic	6	0,30	1,5 ... 7,5	0,15	8498543.8274.xxxxx
	3,6	Stainless steel	G1/8	0,37	0,4 ... 7	0,30	8498766.8270.xxxxx

\*1) Cv-value (US) ≈ kv value x 1,2

## ● Standard solenoid systems

Voltage and frequency solenoid 8270/8271					
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V d.c.	-	25 W	25 W

Electrical details for all solenoid systems	
<b>Design</b>	DIN VDE 0580
<b>Voltage range</b>	±10%
<b>Duty cycle</b>	25% ED, cycle time ≤ 1 Sec.
<b>Protection class</b>	EN 60529 IP00
<b>Socket</b>	8270: Form A acc. to DIN EN 175301-803 IP65 8271: Form B; 6,3 x 0,8

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.

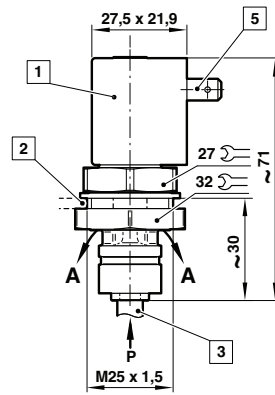
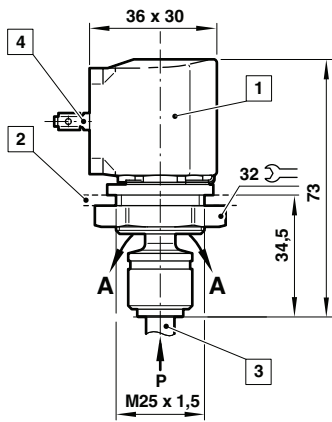
849xxx.827x.xxxx

2/2-way valves, solenoid pilot operated  
ND 3,2 & ND 3,6

● Dimensions

Metal execution (solenoid 8270)

Plastic execution (solenoid 8271)



- 1 Solenoid rotatable 360°
- 2 Body thickness 3 mm
- 3 Push-in connection
- 4 Form A; 2-pol without earth conductor
- 5 Form B "Industry"; 2-pol

# xxxxxxx.8821.xxxxx

ETM pulse solenoids, for cyclical actuation of IMI Buschjost valves with 13 mm sleeve diameter

- Compact and robust design
- Easily commissioned
- Flexible timing adjustment
- Universal solenoid

## Technical Data

**Switching current, external:**  
Max. 1 A

(Using (N) or (-) terminal)

**Terminals:**  
Screw type, max.  
cross-sectional area 2,5 mm<sup>2</sup>

**Cable gland:**  
PG 13,5

**Permissible relative humidity:**  
Max. 95%

**Protection:**  
IP65 acc. to EN 60529,  
inlet of PG cable gland must  
face vertically downwards

**Temperatures:**  
Depending on the complete valve

**Sum of medium and ambient  
temperature:**  
+100°C

**Puls duration (impuls):**  
0,05 ... 1,00 s  
short time range S1 = 0

0,5 ... 10,0 s  
long time range S1 = 1

**Break duration,  
standard (Pause):**  
17,0 ... 360 s  
short time range S3 = 0  
5,6 ... 120 min  
long time range S3 = 1

**Setting tolerance:**  
±5% of limit

**Reproducibility:**  
±1% of limit

**Normen:**  
EMC interference:  
EN 61000-6-3:2007  
EMC interference immunity:  
EN 61000-6-2:2006  
Design acc. to:  
DIN VDE 0580



## ● Technical features

Actuating solenoid with built-in electronic timer. Two potentiometers and two slide switches in the terminal box allow flexible adjustment of pulse and interval duration. When the power is switched on, there is a delay of about 1.5 s before the valve is opened for a preset pulse duration. This is followed by a break. The durations involved are generated by a microcontroller. The power supply may be interrupted to carry out an operating test without waiting for the break. The (N) terminal can be

used to operate the built-in solenoid independently of the cycle set, or to operate an external "reference solenoid" in parallel with the internal coil. The 110/120/230 V version's solenoid coil is operated by means of an integral bridge rectifier. In this case external solenoids can only be supplied with power using an additional rectifier. The pulse solenoid conforms to the ElectroSolenoidic (EMC) 2014/30/EU (2004/108/EEC) and Low Voltage 2014/35/EU (2006/95/EEC) Directives.

## ● Technical data - standard models

Port size	Supply voltage (V)	Voltage range (%)	Frequency (m <sup>3</sup> /h)	Power consumption		Weight (kg)	Model
				Inrush	Holding		
d.c.	24	± 10	-	10 W	10 W	0,65	0000000.8821.02400
a.c.	110	± 10	50	11 VA	11 VA	0,65	0000000.8821.11050
a.c.	120	± 10	60	11 VA	11 VA	0,65	0000000.8821.12060
a.c.	230	± 10	50	50 VA	24 VA	0,65	0000000.8821.23050

Solenoid 8821 = 13 mm sleeve diameter

Solenoid 8820 = 16 mm sleeve diameter

For test purposes, e.g. when commissioning, slide switch S2 can be used to select a test mode with a much shorter break. Switching from Test ON to Test OFF and reverse only effective after power switched off and on again!  
Break duration in test mode:

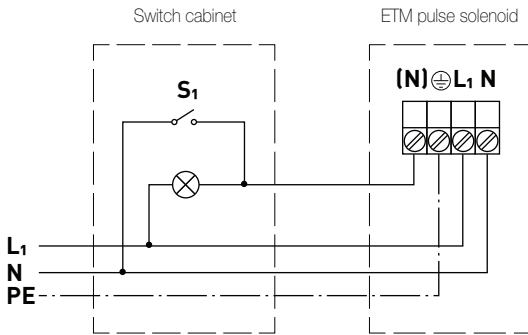
0,05	...	1,00 s	S2 = 1, S3 = 0
937,5 ms	...	20,0 s	S2 = 1, S3 = 1

**CAUTION!** This mode may only be used briefly (for up to 10 minutes), since with an unfavourable setting it can lead to overheating of the solenoid coil burning out the electronics.

xxxxxxx.8821.xxxxx

ETM pulse solenoids, for cyclical actuation of IMI Buschjost valves with 13 mm sleeve diameter

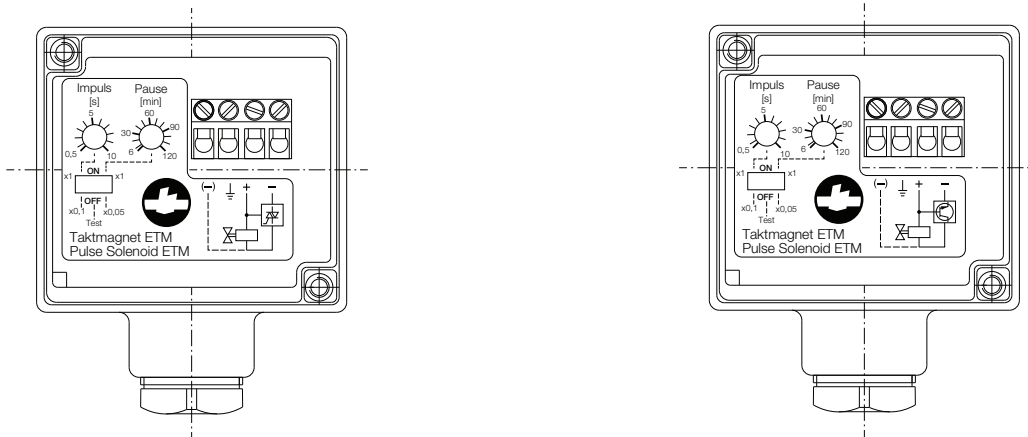
Notes on use of "(N)" or "(-)" terminal



Two functions can be implemented by means of this terminal:  
 Operation of an external load (indicator light, external solenoid, etc). The wiring required must be provided in a separate housing.  
 IMPORTANT: Note that the maximum permissible current of 1 A must not be exceeded through the (N) or (-) terminal! In the case of the 110/120 V a.c. version, an external load must be operated using an external rectifier.

Independent operation of the solenoid, without affecting the timing already set. This function bridges the internal electronic switch.

● Connection/operation



● Terminal assignment

a.c. versions		d.c. versions	
L1	Phase	+	+24 V
N	Neutral Earth (PE)	-	0 V Earth (PE)
(N)	Switching output (see note)	(-)	Switching output (see note)

Note: The Earth (PE) connection is not required if the 24 V pulse solenoid is supplied via insulating transformer.

● Installation & commissioning

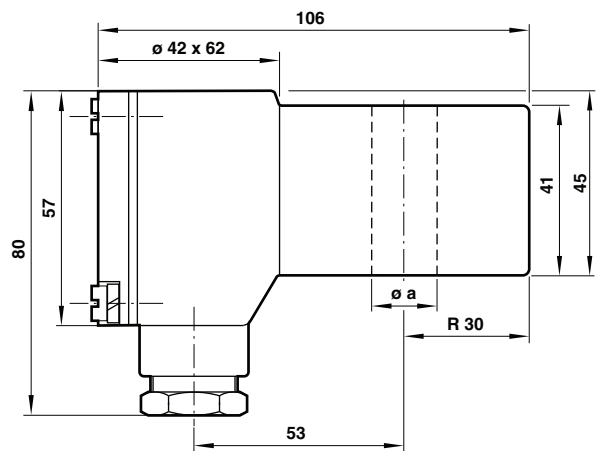
Install the pulse solenoid in an easily accessible location, taking account of the permissible medium and ambient temperatures. Permanent IP65 protection is only achieved with the cable gland facing vertically downwards. A hood or similar shield must be used to protect pulse solenoids installed outdoors against direct sunlight and rain. Make the electrical connection

in accordance with local regulations and accepted practice. To avoid any electric shock hazard, the switches and potentiometers may only be adjusted with the pulse solenoid disconnected from the power.

● Dimensions

CAUTION!

The maximum permissible operating temperatures depend on the pulse solenoid's technical data.  
 Ø a = 13 mm or 16 mm core tube diameter  
 Mounting bushing only to core tube 13 mm





## xxxxxxx.817x.xxxxx

## Solenoids

- Compact design
- Large ambient temperature range
- Available in an explosion-proof design following EU Directive 2014/34/EU

## Technical Data

**Design acc. to:**  
DIN VDE 0580

**Voltage range:**  
±10%

**Duty cycle (ED):**  
100%

**Protection class:**  
EN 60529 IP65

**Temperatures:**  
Depending on the complete valve

**Equipment:**  
[Solenoid 8170](#)  
Pin terminal EN 175301-803A \*1)  
[Solenoid 8171](#)  
Socket EN 175301-803A  
Cable gland diameter range  
Ø 5 ... 10 mm

## Materials

**Body:**  
Duroplast



## ● Technical data - standard models

Voltage	Power consumption		Supply voltage	Frequency	Model
	Inrush	Holding			
d.c.	12 W	12 W	24 V	-	8170.02400
a.c.	23 VA	16 VA	230 V	50 Hz	8170.23050
a.c.	23 VA	16 VA	110 V	50 Hz	8170.11050
d.c.	12 W	12 W	24 V	-	8171.02400
a.c.	23 VA	16 VA	230 V	50 Hz	8171.23050
a.c.	23 VA	16 VA	110 V	50 Hz	8171.11050

\*1) Without socket

## ● Optional solenoids

Additional solenoid systems for hazardous areas			
ATEX category	ATEX-Protection class	Solenoid	Standard voltages
II 3G II 3D	Ex ec IIC T4 Gc Ex tc IIIC T130°C Dc	8176	24 V d.c., 110 V a.c., 230 V a.c.
II 2G II 2D	Ex eb mb IIC T4 Gb Ex mb tb IIIB T135°C Db	6176	24 V d.c., 110 V a.c., 230 V a.c.

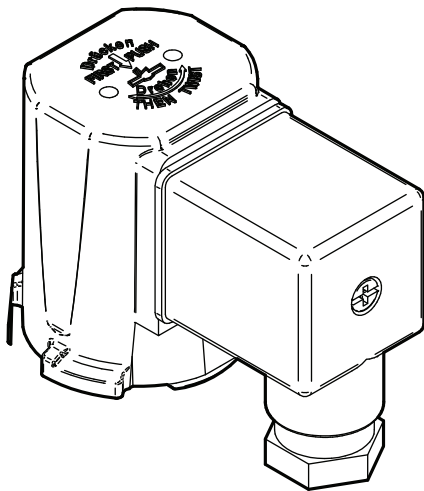
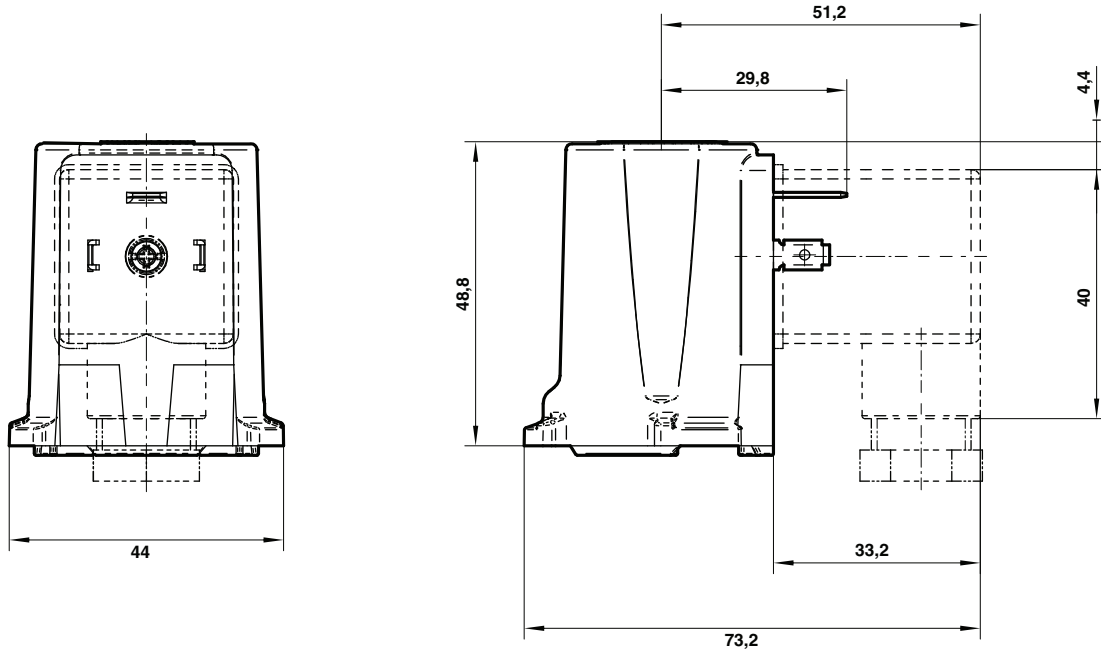
**Attention!**

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

xxxxxxx.80xx.xxxxx

Solenoids

● Dimensions



## xxxxxxx.80xx.xxxxx

## Solenoids

- Compact design
- Large ambient temperature range
- Available in an explosion-proof design following EU Directive 2014/34/EU

## Technical Data

**Design acc. to:**  
DIN VDE 0580

**Voltage range:**  
±10%

**Duty cycle (ED):**  
100%

**Protection class:**  
EN 60529 IP00

**Temperatures:**  
Depending on the complete valve

**Equipment:**  
[Solenoid 8000](#)  
Pin terminal EN 175301-803A \*1)  
[Solenoid 8001](#)  
Socket EN 175301-803A  
Cable gland diameter range  
Ø 5 ... 10 mm

## Materials

**Body:**  
Duroplast



## ● Technical data - standard models

Voltage	Power consumption		Supply voltage	Frequency	Model
	Inrush	Holding			
d.c.	12 W	12 W	24 V	-	8000.02400 *1)
a.c.	20 VA	16 VA	230 V	50 Hz	8000.23050 *1)
a.c.	20 VA	16 VA	110 V	50 Hz	8000.11050 *1)
d.c.	12 W	12 W	24 V	-	8001.02400
a.c.	20 VA	16 VA	230 V	50 Hz	8001.23050
a.c.	20 VA	16 VA	110 V	50 Hz	8001.11050

\*1) Without socket

## ● Optional solenoids

Additional solenoid systems for for hazardous areas			
ATEX category	ATEX-Protection class	Solenoid	Standard voltages
II 3G II 3D	Ex ec IIC T4 Gc Ex tc IIIC T130°C Dc	8026	24 V d.c., 110 V a.c., 230 V a.c.
II 2G II 2D	Ex eb mb IIC T4 Gb Ex mb tb IIIB T135°C Db	6206	24 V d.c., 110 V a.c., 230 V a.c.

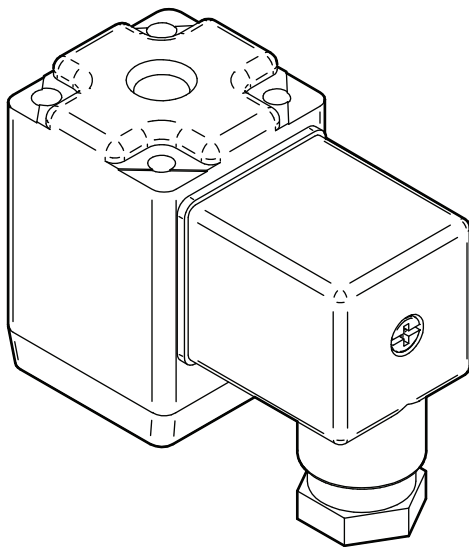
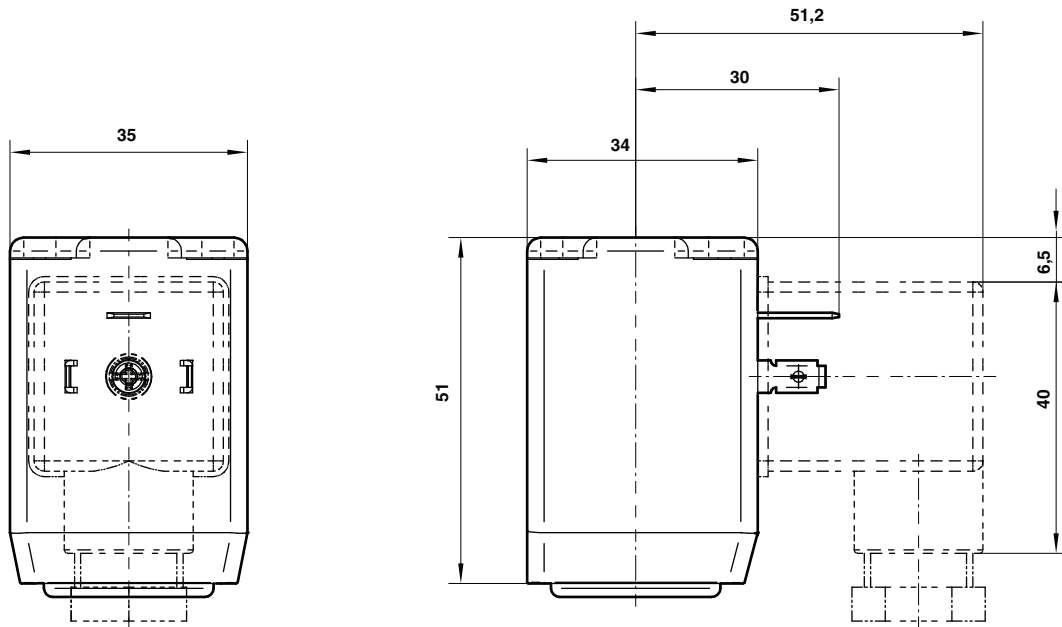
**Attention!**

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

xxxxxxx.80xx.xxxxx

Solenoids


● Dimensions



## xxxxxxx.915x.xxxxx

## Solenoids

Click-on®

- The solenoids (Click-on®) can be easily installed
- Large ambient temperature range
- The solenoid system is closed at the top
- Approvals:  
Available in an explosion-proof design following EU Directive 2014/34/EU
-  Coil only


## Technical Data

**Design acc. to:**  
DIN VDE 0580

**Voltage range:**  
±10%

**Duty cycle (ED):**  
100%

**Protection class:**  
EN 60529 IP00 in conjunction with Socket Form A acc. to DIN EN 175301-803 IP65

**Inspection:**  
 only for coil to max. 250 V a.c. -25 ... +50°C

**Ambient temperature**  
Solenoid coils for higher temperatures on request!

**Temperatures:**  
Depending on the complete valve

**Equipment:**  
Solenoid 9150  
Pin terminal  
EN 175301-803A \*1)  
Solenoid 9151  
Socket EN 175301-803A  
Cable gland diameter range  
Ø 5 ... 10 mm

## Materials

**Body:**  
Duroplast



## ● Technical data - standard models

Voltage	Power consumption		Supply voltage	Frequency	Model
	Inrush	Holding			
d.c.	18 W	18 W	24 V	-	9150.02400 *1)
a.c.	45 VA	35 VA	-	50 Hz	9150.23050 *1)
a.c.	45 VA	35 VA	-	50 Hz	9150.11050 *1)
d.c.	18 W	18 W	24 V	-	9151.02400
a.c.	45 VA	35 VA	-	50 Hz	9151.23050
a.c.	45 VA	35 VA	-	50 Hz	9151.11050

\*1) Without socket

## ● Optional solenoids

Additional solenoid systems for hazardous areas			
ATEX category	ATEX-Protection class	Solenoid	Standard voltages
II 3G II 3D	Ex ec IIC T4 Gc Ex tc IIIC T130°C Dc	9176	24 V d.c., 110 V a.c., 230 V a.c.
II 2G II 2D	Ex eb mb IIC T4 Gb Ex mb tb IIIB T125°C Db	6126 *3)	24 V d.c., 110 V a.c., 230 V a.c.

**Attention!**

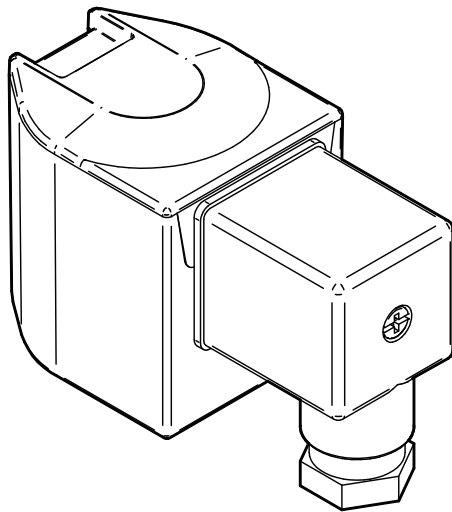
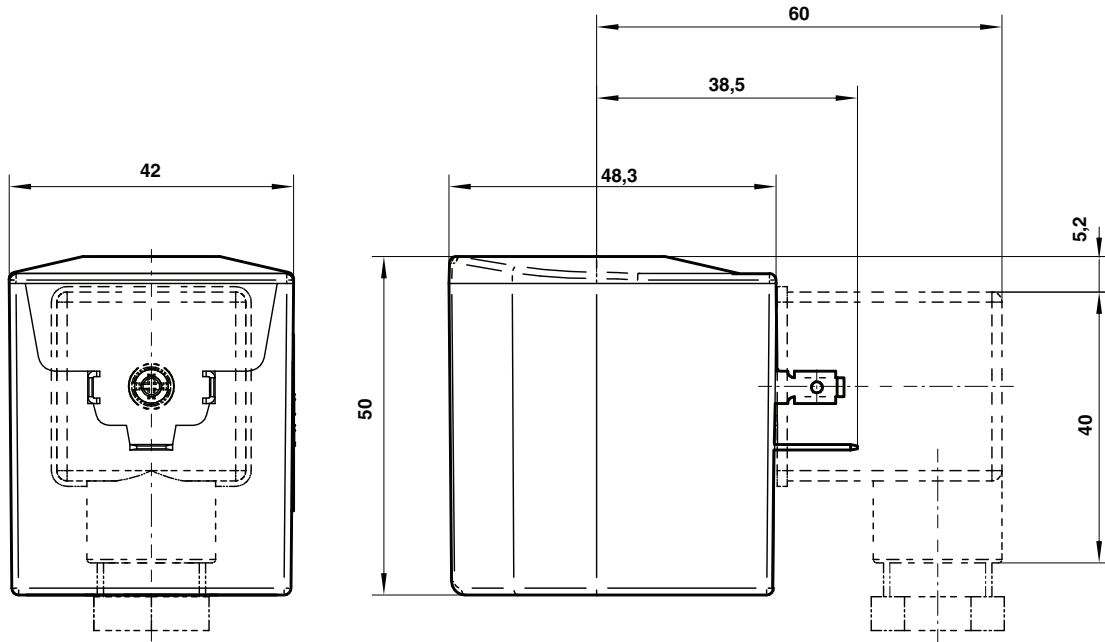
The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids.

\*3) from G1 1/4 / 1 1/4 NPT (16 bar)

xxxxxxx.915x.xxxxx

Solenoids

● Dimensions



## xxxxxxx.8176.xxxxx

## Solenoids

- Compact design
- Large ambient temperature range
- Available in an explosion-proof design following EU Directive 2014/34/EU

## Technical Data

**Protection class:**  
IP65

**Cable gland:**  
PG9

**Cable diameter:**  
Ø 4,5 ... 7 mm

**Cable:**  
 $T_{\text{permissible}} \geq 88^{\circ}\text{C}$

**Conductor cross section:**  
Max. 1,5 mm<sup>2</sup>

**Fastening:**  
Nut

**Tube diameter:**  
Ø = 16 mm

**Weight:**  
m = 0,8 kg

**ATEX-marking:**  
II 3G Ex ec IIC T4 Gc  
II 3D Ex tc IIC T130°C Dc  
ATEX Zone 2/22

## Materials

**Body:**  
Duroplast



## ● Technical data - standard models

Type	Power consumption		$T_{\text{amb}}$ (°C)	$T_{\text{fluid max.}}$ (°C)	Temperature class		$U_{\text{nom}}$ (V)
	Inrush	Holding			Gas	Dust	
8176	12 WA	12 WA	65	≤ 100	T4	T130°C	12 ... 250 ±10% DC
8176	23 VA	16 VA	65	≤ 100	T4	T130°C	12 ... 250 ±10% AC

## xxxxxxx.6170.xxxxx

Solenoids

Twist-on®



- Category II
- ATEX and IECEx approvals
- Cover can be rotated 180°
- Simple installation with spring-loaded terminals
- Twist on®

## Technical Data

Protection class:  
IP66

Cable gland:  
M16 x 1,5

Cable diameter:  
Ø 7 ... 9 mm ( $T_{amb}$  min. = -20°C)  
Ø 5 ... 9 mm ( $T_{amb}$  min. = -40°C)

Cable:  
 $T_{permissible} \geq 85^\circ\text{C}$

Conductor cross section:  
0,08 ... 2,5 mm<sup>2</sup>

Fastening:  
Twist-on®

Tube diameter:  
Ø = 11,4 mm

Weight:  
m = 0,25 kg

Type examination certificate:  
PTZ 16 ATEX 0011 X  
IECEx PTZ 17.0001X

ATEX-marking:  
II 2G Ex eb mb IIC T4 - T3 Gb  
II 2D Ex mb tb IIIB T135°C - T140°C

ATEX Zone 1/21

## Materials

Body:  
Duroplast



## ● Technical data - standard models

Type	$P_{nom}$ (W)	$T_{amb}$ (°C)	$T_{fluid}$ max.(°C)	Temperature class		$U_{nom}$ (V AC/ V DC)
				Gas	Dust	
6170	12	40	≤ 80	T3	T140°C	12 ... 250 ±10%
6173	9	60	≤ 80	T3	T140°C	12 ... 250 ±10%
6176	9	50	≤ 80	T4	T135°C	12 ... 250 ±10%
6179	7	60	≤ 80	T4	T135°C	12 ... 250 ±10%



## xxxxxxx.8026.xxxxx

## Solenoids

- Compact design
- Large ambient temperature range
- Available in an explosion-proof design following EU Directive 2014/34/EU

## Technical Data

**Protection class:**  
IP65

**Cable gland:**  
PG 9

**Cable diameter:**  
 $\varnothing 7 \dots 9 \text{ mm}$  ( $T_{\text{amb min}} = -25^\circ\text{C}$ )

**Cable:**  
 $T_{\text{permissible}} \geq 85^\circ\text{C}$

**Conductor cross section:**  
max.  $1,5 \text{ mm}^2$

**Fastening:**  
4 Screws

**Tube diameter:**  
 $\varnothing = 11,4 \text{ mm}$

**Weight:**  
 $m = 0,22 \text{ kg}$

**ATEX-marking:**  
II 3G Ex ec IIC T4 Gc  
II 3D Ex tc IIIC T130°C Dc  
ATEX Zone 2/22

## Materials

**Body:**  
Duroplast



## ● Technical data - standard models

Type	Power consumption		$T_{\text{amb}}$ (°C)	$T_{\text{fluid max.}}$ (°C)	Temperature class		$U_{\text{nom}}$ (V)
	Inrush	Holding			Gas	Dust	
$T_{\text{amb min.}} -25^\circ\text{C}$							
8026	12 W	12 W	50	$\leq 110$	T4	T130°C	12 ... 250 $\pm 10\%$ AC
8026	23 VA	16 VA	50	$\leq 110$	T4	T130°C	12 ... 250 $\pm 10\%$ DC

## xxxxxxx.6200.xxxxx

Solenoid

- Category II
- ATEX and IECEx approvals
- Cover can be rotated 180°
- Simple installation with spring-loaded terminals

## Technical Data

Protection class:  
IP66

Cable gland:  
M16 x 1,5

Cable diameter:  
Ø 7 ... 9 mm ( $T_{amb}$  min. = -20°C)  
Ø 5 ... 9 mm ( $T_{amb}$  min. = -40°C)

Cable:  
 $T_{permissible} \geq 85^{\circ}\text{C}$

Conductor cross section:  
0,08 ... 2,5 mm<sup>2</sup>

Fastening:  
4 Screws

Tube diameter:  
Ø = 11,4 mm

Weight:  
m = 0,26 kg

Type examination certificate:  
PTZ 16 ATEX 0011 X  
IECEx PTZ 17.0001X

ATEX-marking:  
II 2G Ex eb mb IIC T4 - T3 Gb  
II 2D Ex mb tb IIIB T135°C - T150°C

## Materials

Body:  
Duroplast



## ● Technical data - standard models

Type		P <sub>nom</sub> (W)	T <sub>amb</sub> (°C)	T <sub>fluid</sub> max.(°C)	Gas	Temperature class		U <sub>nom</sub> (V AC/ V DC)
T <sub>amb</sub> min. -20°C	T <sub>amb</sub> min. -40°C					Dust		
6200	6210	12	40	≤ 80	T3	T150°C	12 ... 250 ±10%	
6202	6212	12	40	≤ 80	T3	T150°C	12 ... 250 ±10%	
6203	6213	9	60	≤ 80	T3	T150°C	12 ... 250 ±10%	
6206	6216	9	45	≤ 80	T4	T135°C	12 ... 250 ±10%	
6209	6219	7	60	≤ 80	T4	T135°C	12 ... 250 ±10%	

# XXXXXXX.382x.XXXXX

## Solenoids


- Compact design
- Large ambient temperature range
- Approvals:  
USA – FM approved  
Canada – CSA certified
- The solenoid has a sleeve diameter of 16 mm.
- 1/2 Conduit
- Flying leads

### Technical Data

**Voltage range:**  
±10%

**Duty cycle (ED):**  
100%

**Protection class:**  
EN 60529 IP65

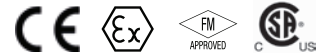
**Inspection:**  
FM (File No. 2Z2A6.AE),  
 (File No. LR 57643-6)

**Temperatures:**  
Depending on the complete valve

**Equipment:**  
Solenoid 3826  
Flying leads 3 x 450 mm  
Solenoid 3827 \*1)  
Flying leads 3 x 450 mm

### Materials

**Body:**  
Duroplast



### ● Technical data - standard models

Voltage	Power consumption		Supply voltage	Frequency	Model
	Inrush	Holding			
d.c.	13 W	13 W	24 V	-	3826.02400
a.c.	15 VA	15 VA	120 V	40 ... 60 Hz	3827.12049 *1)

\*1) With rectifier

### ● Option selector

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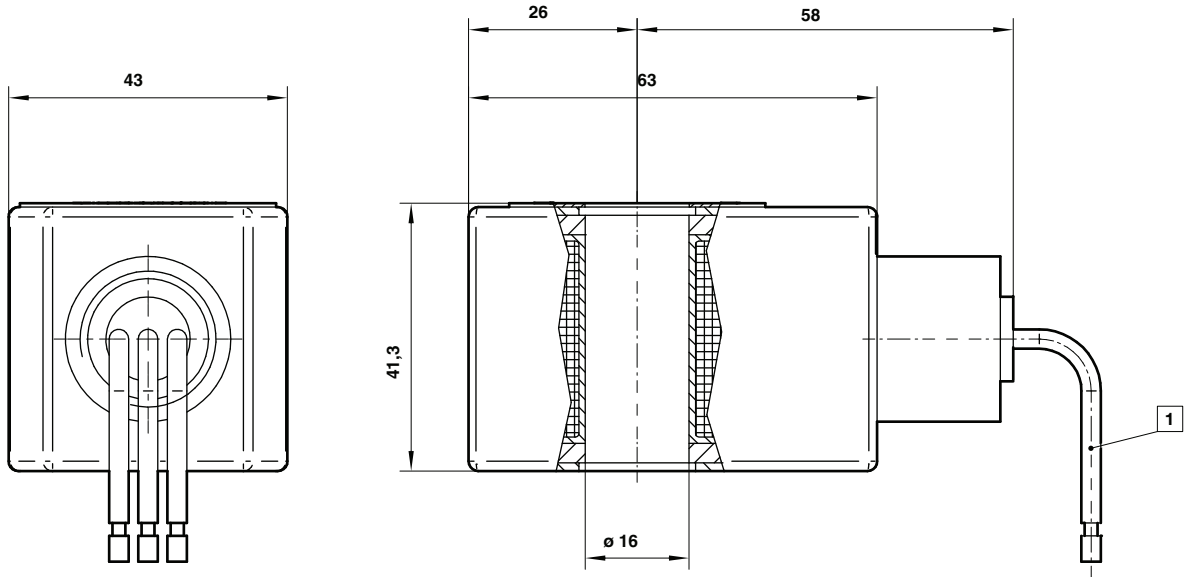
→	<b>Frequency</b>	<b>Substitute</b>
	See table frequency codes	xx
→	<b>Voltage</b>	<b>Substitute</b>
	See table Voltage codes	xxx
→	<b>Solenoid options</b>	<b>Substitute</b>
	With 1/2 - 14 NPT female thread and 460 mm flying leads Protection class acc. to ANSI/NEMA Solenoids in temperature class T3C (160°C) are usable in Ex-areas. Ambient temperature -20 ... +60°C	6
	Or a.c. with integrated rectifier (informationen see solenoid 3826)	7

	Class	Division	Groups
Gases + furnes	I	1 and 2	A ... D
Dusts	II	1 and 2	E ... G
Fibres + fluffs	III	1 and 2	-

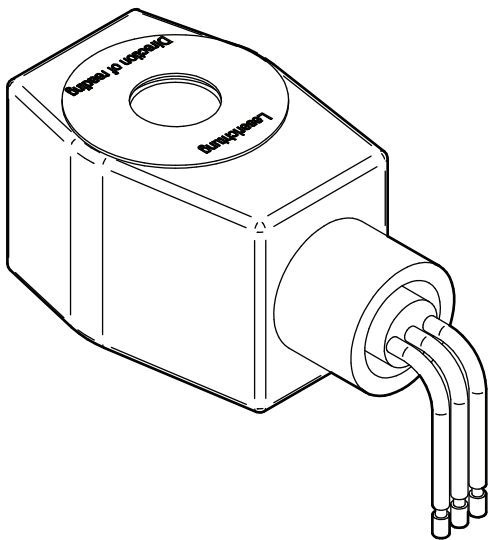
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Solenoids

● Dimensions



1 460 mm long



## xxxxxxx.428x.xxxxx

## Solenoids

- Compact design
- Large ambient temperature range
- The solenoid has a sleeve diameter of 16 mm

## Technical Data

**Protection class:**  
IP65

**Cable gland:**  
M20 x 1,5

**Cable:**  
 $T_{\text{permissible}} \geq 88^{\circ}\text{C}$

**Conductor cross section:**  
Max. 4 mm<sup>2</sup>

**Fastening:**  
Nut

**Tube diameter:**  
 $\varnothing = 16 \text{ mm}$

**Weight:**  
 $m = 0,8 \text{ kg}$

**Type examination certificate:**  
KEMA 98ATEX4452 X

**ATEX-marking:**  
II 2G Ex eb mb IIC T4 - T6 Gb  
II 2D Ex tb IIC T130°C Db

## Materials

**Body:**  
Polymer



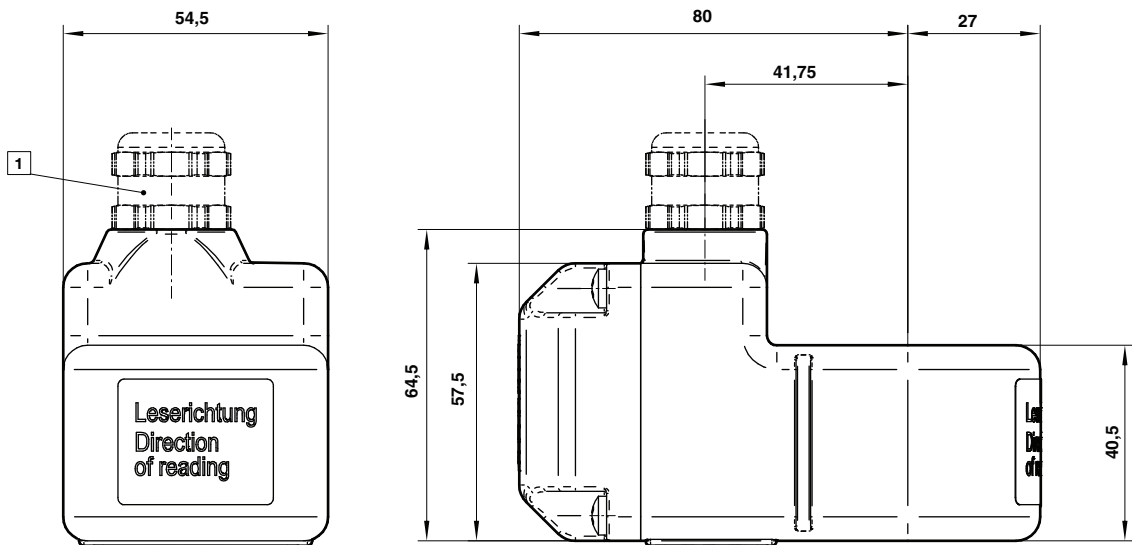
## ● Technical data - standard models

Type	P <sub>nom</sub> (W)	T <sub>amb</sub> (°C)	T <sub>fluid</sub> max.(°C)	Temperature class		U <sub>nom</sub> (V AC/ V DC)
				Gas	Dust	
4260/4261	4/5	80/55	80/55	T4/T6	T130°C	24 ... 230 ±10%
4270/4271	8/9	65/55	65/55	T4/T5	T130°C	24 ... 230 ±10%
4280/4281	11/13	65/55	50/40	T4/T5	T130°C	24 ... 230 ±10%

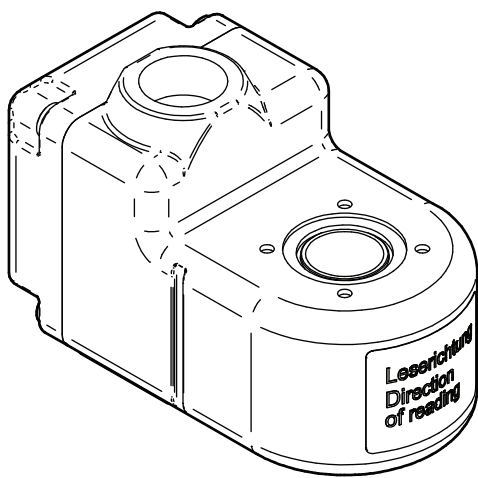
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Solenoids

● Dimensions



1 Cable gland M20x1,5 not included in the delivery scope of the solenoid



# xxxxxxx.468x.xxxxx

## Solenoids

- Compact design
- Large ambient temperature range
- The solenoid has a sleeve diameter of 16 mm

### Technical Data

**Protection class:**  
IP66

**Cable gland:**  
M20 x 1,5/ 1/2 ... 14 NPT

**Cable diameter:**  
Ø 10 ... 14 mm  
Ø 5 ... 9 mm

**Cable:**  
T<sub>permissible</sub> ≥ 95°C

**Conductor cross section:**  
Max. 4,0 mm<sup>2</sup>

**Fastening:**  
Nut

**Tube diameter:**  
Ø = 16 mm

**Weight:**  
m = 0,8 kg

**Type examination certificate:**  
PTB Q2 ATEX 2085 X

**ATEX-marking:**  
II 2G Ex d mb IIC T4/T6 Gb  
II 2D Ex tb IIC T130/ T180°C Db

### Materials

**Body:**  
Steel



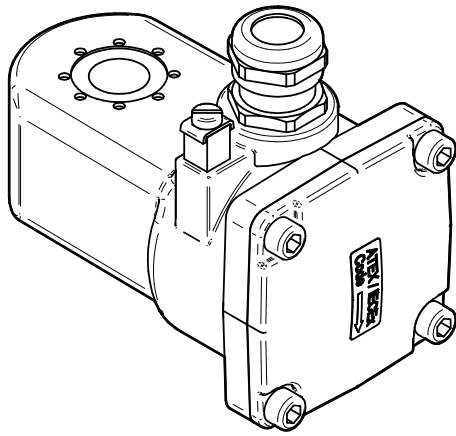
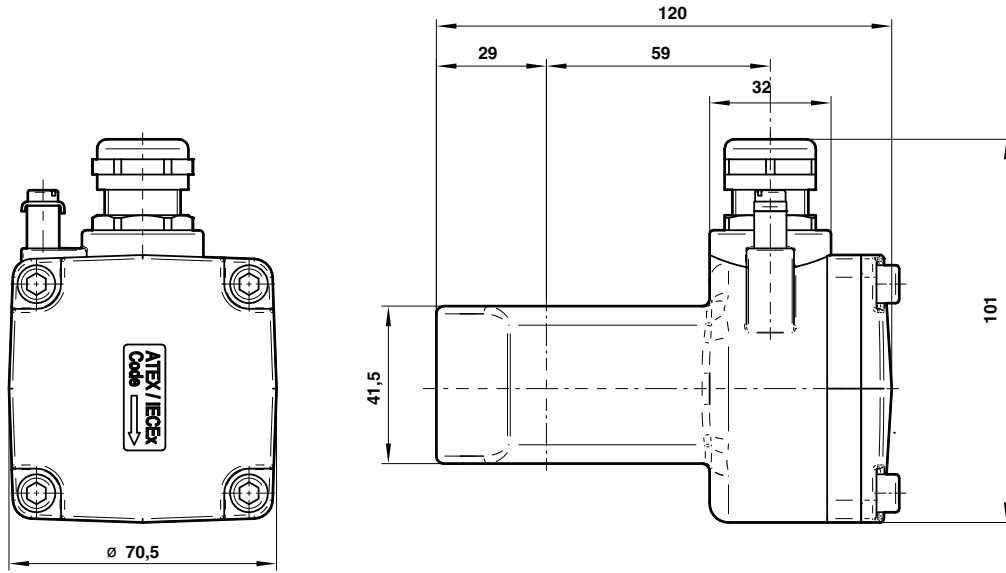
### ● Technical data - standard models

T <sub>amb</sub> min. -40°C	Type	P <sub>nom</sub> (W/VA)	T <sub>amb</sub> * (°C)	T <sub>fluid</sub> max.(°C)	Temperature class		U <sub>nom</sub> (V AC/ V DC)
					Gas	Dust	
	4660/4662	4/5	80/55	80/55	T4/T6	T130°C	24 ... 230 ±10% AC 24 ... 120 ±10% DC
	4670 ... 4673	8/9	70/40	70/40	T4/T6	T130°C	24 ... 230 ±10% AC 24 ... 110 ±10% DC
	4680 ... 4683	11/13	50/40	50/40	T4/T5	T130°C	24 ... 230 ±10% AC 24 ... 120 ±10% DC

xxxxxxx.468x.xxxxx

Solenoids

● Dimensions





# Service kits (SK)

4

ACCESSORIES

101

Online at [www.imi-precision.com](http://www.imi-precision.com)

## Series 82900/82910

Type Valve	Orifice (mm)	Connection Size	Type Service kit	Contents Service kit
8290300.0000	20	G3/4	1264510	Diaphragm
8219300.0000	20	3/4 NPT	1264510	Diaphragm
8290400.0000	25	G1	1264510	Diaphragm
8291400.0000	25	1 NPT	1264510	Diaphragm
8290600.0000	40	G1 1/2	1261402	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8291600.0000	40	1 1/2 NPT	1261402	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8290700.0000	50	G2	1268274	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8291700.0000	50	2 NPT	1268274	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8290800.0000	65	G2 1/2	1268274	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8291800.0000	65	2 1/2 NPT	1268274	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8290900.0000	80	G3	1701615	1 x diaphragm, 1 x diaphragm DN 80, 1 x silencer

## Series 82960/82970

Type Valve	Orifice (mm)	Connection Size	Type Service kit	Contents Service kit
8296300.8171	20	G3/4	1264510	Diaphragm
8297300.8171	20	3/4 NPT	1264510	Diaphragm
8296400.8171	25	G1	1264510	Diaphragm
8297400.8171	25	1 NPT	1264510	Diaphragm
8296600.8171	40	G1 1/2	1261402	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8297600.8171	40	1 1/2 NPT	1261402	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8296700.8171	50	G2	1268274	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8297700.8171	50	2 NPT	1268274	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8296800.8171	65	G2 1/2	1268274	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8297800.8171	65	2 1/2 NPT	1268274	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8296900.8171	80	G3	1701615	1 x diaphragm, 1 x diaphragm DN 80, 1 x silencer

## Series 83300/83310

Type Valve	Orifice (mm)	Connection Size	Type Service kit	Contents Service kit
8330300.0000	20	G3/4	1264510	Diaphragm
8331300.0000	20	3/4 NPT	1264510	Diaphragm
8330400.0000	25	G1	1264510	Diaphragm
8331400.0000	25	1 NPT	1264510	Diaphragm
8330600.0000	40	G1 1/2	1261402	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
8331600.0000	40	1 1/2 NPT	1261402	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer

## Series 83320

Type Valve	Orifice (mm)	Connection Size	Type Service kit	Contents Service kit
8332300.8171	20	G3/4	1264510	Diaphragm
8332400.8171	25	G1	1264510	Diaphragm
8332600.8171	40	G1 1/2	1261402	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer

## Service kits (SK)

### Series 83920

Outside dim. of tank-/profile (mm)	Type DN 25	Type DN 40	Type Service kit	Contents Service kit
70				
100				
120	8392400.			
140	8171.00000	—	1261253	Diaphragm
160				
180				
200				
70				
100				
120				
140	—	8392600.8171.00000	1261402	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
160				
180				
200				

### Series 83930

Outside dim. of tank-/profile (mm)	Type DN 25	Type DN 40	Type Service kit	Contents Service kit
70				
100				
120	8393400.			
140	8171.00000	—	1261253	Diaphragm
160				
180				
200				
70				
100				
120				
140	—	8393600.8171.00000	1261402	1 x diaphragm, 1 x diaphragm DN 20, 1 x silencer
160				
180				
200				

# Service kits solenoid (SKS)

4

ACCESSORIES

103

Online at [www.imi-precision.com](http://www.imi-precision.com)

## Series 82960/82970

Type Valve	Orifice (mm)	Connection Size	Type Solenoid system 8171	Contents Service kit solenoid
8296300.xxxx	20	G3/4	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8297300.xxxx	20	3/4 NPT	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8296400.xxxx	25	G1	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8297400.xxxx	25	1 NPT	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8296600.xxxx	40	G1 1/2	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8297600.xxxx	40	1 1/2 NPT	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8296700.xxxx	50	G2	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8297700.xxxx	50	2 NPT	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8296800.xxxx	65	G2 1/2	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8297800.xxxx	65	2 1/2 NPT	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8296900.xxxx	80	G3	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket

## Series 82960/82970

Type Valve	Orifice (mm)	Connection Size	Type Solenoid system 8001	Contents Service kit solenoid
8296300.xxxx	20	G3/4	8298000.8001.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8297300.xxxx	20	3/4 NPT	8298000.8001.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8296400.xxxx	25	G1	8298000.8001.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8297400.xxxx	25	1 NPT	8298000.8001.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8296600.xxxx	40	G1 1/2	8298000.8001.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8297600.xxxx	40	1 1/2 NPT	8298000.8001.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8296700.xxxx	50	G2	8298000.8001.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8297700.xxxx	50	2 NPT	8298000.8001.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8296800.xxxx	65	G2 1/2	8298000.8001.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8297800.xxxx	65	2 1/2 NPT	8298000.8001.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8296900.xxxx	80	G3	8298000.8001.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket

## Series 83320

Typ Valve	Orifice (mm)	Connection Size	Type Solenoid system 8171	Contents Service kit solenoid
8332300.xxxx	20	G3/4	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8332400.xxxx	25	G1	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
8332600.xxxx	40	G1 1/2	8298000.8171.xxxxx	1 x core, 2 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket

## Series 83920

Outside dim. of tank-/profile (mm)	Type DN 25	Type DN 40	Type Solenoid system	Contents Service kit solenoid
70				
100				
120				
140	8392400.8171.00000	-----	8298000.8171.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
160				
180				
200				
70				
100				
120				
140	-----	8392600.8171.00000	8298000.8171.xxxxx	1 x core, 1 x pressure spring, 1 x silencer, 1 x solenoid, 1 x socket
160				
180				
200				



We get closer  
to our customers  
to understand  
their exact challenges