

GEMÜ 8506

Electrically operated pilot solenoid valve



Features

- Optional installation position
- The solenoid can be replaced without removing the valve body from the piping
- The coil can be rotated by 90°
- Simple conversion from 3/2-way valve to 5/2-way valve

Description

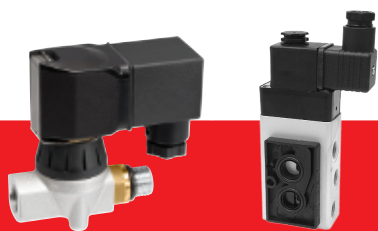
The GEMÜ 8506 servo assisted 3/2 or 5/2-way pilot solenoid valve is indirectly controlled. The body is made of aluminium. The plastic encapsulated coil is detachable.

Technical specifications

- Media temperature: -10 to 50 °C
- Ambient temperature: -10 to 50 °C
- Operating pressure: 2 to 8 bar
- Nominal size : DN 6
- Connection type: Threaded connection
- Body material : Aluminium
- Electrical connection type: Plug, design A
- Supply voltages: 110 V AC, 50 Hz | 230 V AC, 50 Hz | 24 V AC, 50 Hz | 24 V DC
- Protection class: IP 65
- Conformities: EAC



Product line



GEMÜ 8303 002

GEMÜ 8506

Nominal sizes	DN 2	DN 6
Voltage		
110 V AC, 50 Hz	●	●
230 V AC, 50 Hz	●	●
24 V AC, 50 Hz	●	●
24 V DC	●	●
Media temperature *	-10 to 60 °C	-10 to 50 °C
Operating pressure *	1 to 10 bar	2 to 8 bar
Connection types		
Threaded connection	●	●
Body material		
1.4581	●	-
Aluminium	●	●

* depending on version and/or operating parameters

Order data

Order codes

The order data provide an overview of standard configurations.

Please check the availability before ordering. Other configurations available on request.

1 Type	Code
Pilot solenoid valve, servo assisted, manual override	8506

2 DN	Code
DN 6	6

3 Body configuration	Code
Multi-port version	M

4 Connection type	Code
Threaded socket DIN ISO 228	1

5 Valve body material	Code
3.0615, AlMgSiPb	14

6 Seal material	Code
NBR	2

7 Switch position	Code
Closed neutral position	1

8 Voltage	Code
24 V	24
110 V	110
230 V	230

9 Frequency	Code
50 Hz	50
DC	DC

10 Special version	Code
ATEX version, encapsulation (Ex mb)	X
ATEX version, intrinsic safety(EX ia)	Y

Order example

Order option	Code	Description
1 Type	8506	Pilot solenoid valve, servo assisted, manual override
2 DN	6	DN 6
3 Body configuration	M	Multi-port version
4 Connection type	1	Threaded socket DIN ISO 228
5 Valve body material	14	3.0615, AlMgSiPb
6 Seal material	2	NBR
7 Switch position	1	Closed neutral position
8 Voltage	230	230 V
9 Frequency	50	50 Hz DC
10 Special version		Without

Technical data

Medium

Working medium: Filtered, lubricated or unlubricated compressed air which has no negative impact on the physical and chemical properties of the valve body and seal material.
Lubricated compressed air: Lubricants with DVI values < 8 (DIN 53521) and ISO viscosity class 32-46 (DIN 51519)

Temperature

Media temperature: -10 to 50 °C

Ambient temperature: -10 to 50 °C

Pressure

Operating pressure: 2 to 8 bar

Flow rate: 1200 NI/min

Mechanical data

Protection class: IP 65 (with plug)

Weight: 0.4 kg

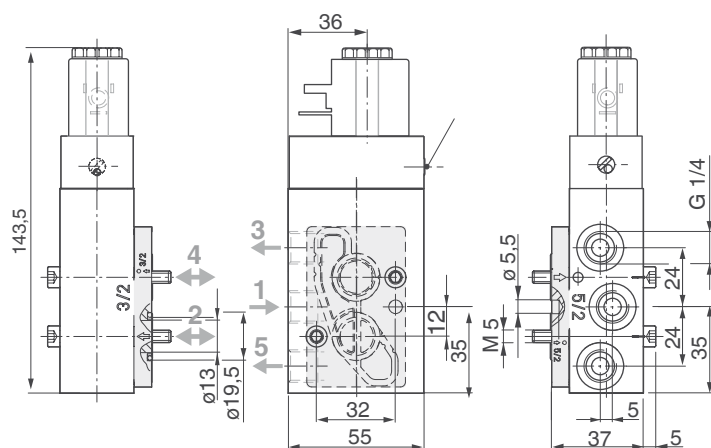
Installation position: Optional

Electrical data

Power consumption:	AC operation:	4,9 VA
	DC operation:	2.7 W
Switching times:	Approx. 27 ms	
Permissible voltage tolerance:	±10 % to VDE 0580	
Duty cycle:	Continuous duty	
Wiring note:	Special wiring on request. When using electronic switches and additional wiring, carefully design out any potential residual currents upon installation.	

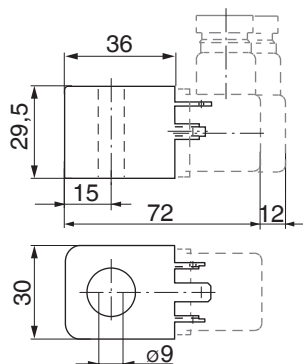
Dimensions

Solenoid valve GEMÜ 8506



Dimensions in mm

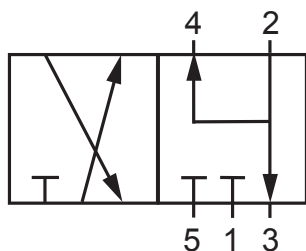
GEMÜ 3033 solenoid



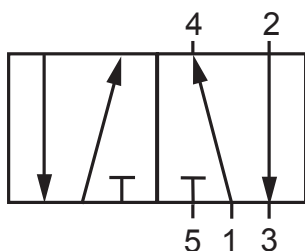
Dimensions in mm

Circuit diagram

3/2-way version



5/2-way version



Accessories

GEMÜ 3033

Solenoid

GEMÜ 3033 solenoid: Form A connector without cable, standard version for direct current



Ordering information

Type	Item number	Order description
3033	88100480	8506 000 P 3033

GEMÜ 3062

Solenoid

GEMÜ 3062 Ex solenoid: Form B connector with 3 m cable, ATEX version for direct current

Protection class:

II 2G Ex mb IIC T4/T5 Gb

II 2D Ex mb tb IIIC T95°C, T130° Db

Ordering information

Type	Item number	Order description
3062	88100490	8506 000 P 3062



GEMÜ 3063

Solenoid

GEMÜ 3063 Ex solenoid: Form B connector with 3 m cable, ATEX version for AC current

Protection class:

II 2G Ex mb IIC T4/T5 Gb

II 2D Ex mb tb IIIC T95°C, T130° Db

Ordering information

Type	Voltage	Item number	Order description
3063	230 V 50 Hz	88100462	8506 000 P 3063 230 50 X
	110 V 50 Hz	88225689	8506 000 P 3063 110 50 X
	24 V 50 Hz	88100491	8506 000 P 3063 24 50 X



**GEMÜ 1750****Silencer**

The GEMÜ 1750 silencer can be used to reduce the noise caused by leaking compressed air. It is available either in brass or plastic.

Ordering information

Type	Item number	Order description
1750*	88387920	1750 000 ZA 214K0K1

* x2 required for 5/2-way design

**GEMÜ 2022****Exhaust air throttle**

GEMÜ 2022 is a metal or plastic exhaust air throttle. It allows the actuator speed to be regulated by restricting the emission of air. Various connection sizes are available with female thread, male thread, connector, plug-in nipple or quick connectors.

Ordering information

Type	Item number	Order description
2022*	88011501	2022 000 ZA 214K000D100CG3

* x2 required for 5/2-way design

Throttle plate**Spare parts****GEMÜ FP****Function plate**

The function plate is required for attaching to the actuators via the NAMUR hole pattern.

Ordering information

Type	Item number	Application
8506 000 FP 3-2	93047193	for mounting to single acting actuator
8506 000 FP 5-2	93047194	for mounting to double acting actuator



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