

# Pilot Solenoid Valve

## Plastic

### Construction

The directly controlled GEMÜ 3/2 way solenoid valve consists of a solenoid encapsulated in plastic and a plastic valve body.

A connector socket provides a connection to electrical supply. A manual override is integrated as standard.

**GEMÜ 320:** This variant is designed for single mounting. The valve body has a straight through design. The pneumatic connection is via a female thread.

**GEMÜ 322:** This variant is designed for battery mounting of up to 12 units (by using clips) depending on the devices to be controlled.

**GEMÜ 324:** For direct mounting to pneumatically operated valves or other devices (inlet and outlet arranged at an angle of 90°).

**GEMÜ 326:** Compact valve battery with aluminium distribution rail for mounting in switch gear cubicles or as a valve manifold near the pneumatic components to be controlled.

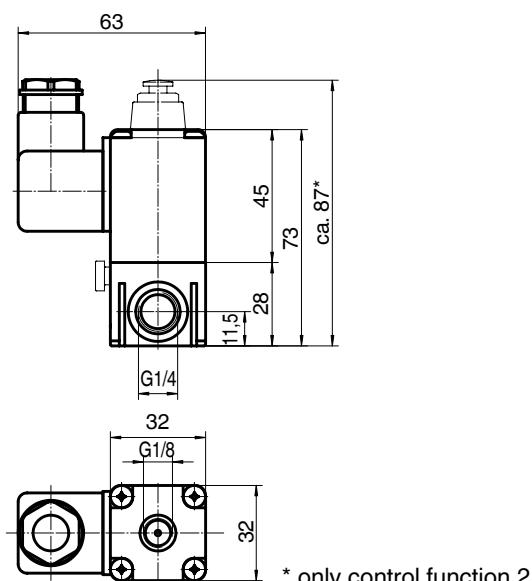
### Features

- Suitable for the control of chemically inert gases
- Control functions "normally closed" and "normally open" are available
- ATEX marking: II 3 GD EEx na II T3 T 150°C

### Advantages

- Robust design
- Reliable direct control of the control medium
- Multi-functional application possibilities due to various designs
- Accessories (only for GEMÜ 326)
  - Battery rails and blanking plates

### Dimensions - GEMÜ 320 [mm]



GEMÜ 320



GEMÜ 322



GEMÜ 324



GEMÜ 326

## Technical data

Working medium	
Chemically inert gases	
Temperature range of working medium	-15 to +50° C
Working pressure	0 - 10 bar

Ambient conditions	
Ambient temperature	-20 to +50°C

Rating	
Continuously rated	

Power consumption	
Pull in current	18 VA
Hold in current	8 VA or 6.5 W

Electrical connection	
Standard connector socket, form A DIN EN 175301-803	

Installation note	
If installed in switch gear cubicles adequate ventilation must be provided.	

K <sub>V</sub> value	
Normally closed	1.2 l/min
Normally open	1.2 l/min

Weight	
220 g	

Max. switching frequency	
3600 times/hour	

Switching time	
20 ms	

Permissible voltage tolerances	
-10 / +6%	

Protection class	
IP 65	

## Approval (24V DC, 230V 50/60 Hz)

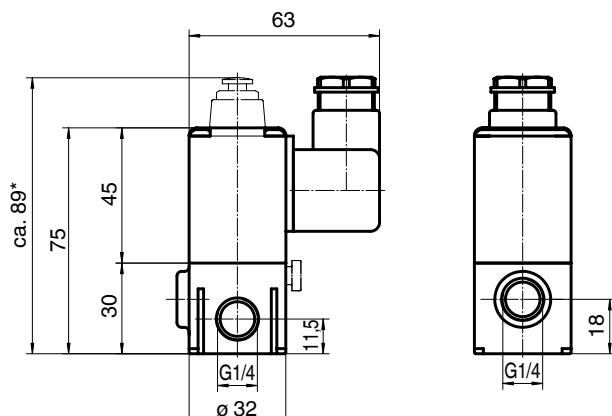
Explosion protection marking acc. to ATEX	
Ex II 3 GD EEx nA II T3 T 150°C	

Type examination certificate	
KEMA 04 ATEX 1011 X	



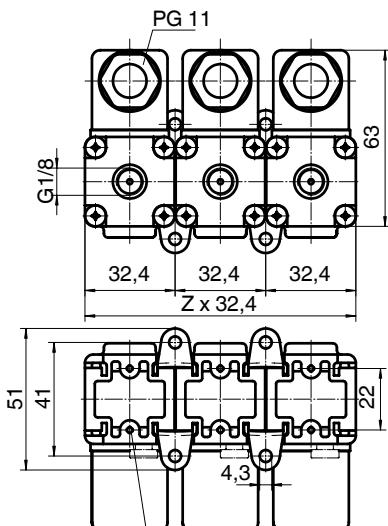
## Dimensions [mm]

### GEMÜ 322



\* only control function 2

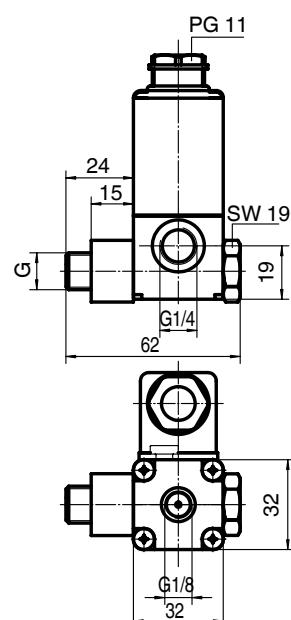
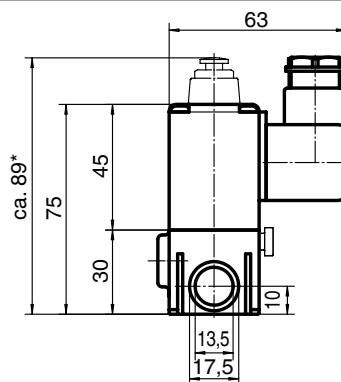
### Battery GEMÜ 322



with GEMÜ 320 cylindrical screw M3x8  
with GEMÜ 322/324 sheet metal screw 2.9x9.5

### GEMÜ 324

\* only control function 2



#### Type of design

#### G

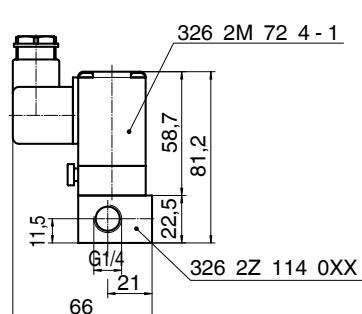
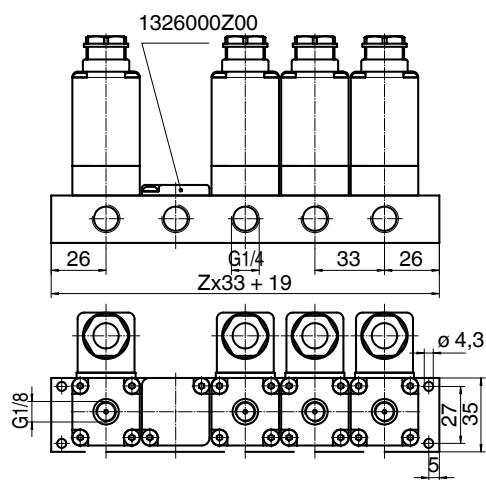
Standard

G 1/4

5200

G 1/8

### GEMÜ 326



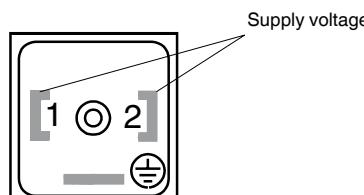
## Order data

Type	Code	Seal material	Code							
Single mounting	320	FPM	4							
Single or battery mounting system	322									
Single valve with hollow bolt	324									
Compact valve manifold Ventilinsel	326									
Nominal size	Code	Control function	Code							
2 mm	2	Normally closed	1							
		Normally open*	2							
		* only GEMÜ 320, 322, 324								
Body configuration	Code	Supply voltages / frequency	Code							
Multi-way body	M	24V DC	24 DC							
		24V 50/60 Hz	24 50/60							
		120V 50/60 Hz	120 50/60							
		230V 50/60 Hz	230 50/60							
		Other voltages on request								
Connection	Code	Type of design (GEMÜ 324)	Code							
Threaded sockets DIN ISO 228 (GEMÜ 320, 324)	1	Hollow bolt, male thread G 1/4	-							
Threaded sockets DIN ISO 228 (GEMÜ 322)	01	Hollow bolt, male thread G 1/8	5200							
Threaded sockets DIN ISO 228 (GEMÜ 326)										
Valve body material	Code									
PBTP (GEMÜ 320, 324)	25									
PPS (GEMÜ 322, 326)	72									
Order example	322	2	M	1	72	4	1	230	50/60	-
Type	322									
Nominal size		2								
Body configuration (code)			M							
Connection (code)				1						
Valve body material (code)					72					
Seal material (code)						4				
Control function (code)							1			
Supply voltage (code)								230		
Frequency (code)									50/60	
Type of design (nur GEMÜ 324) (code)										-

## Order data - Accessories (only for GEMÜ 326)

Battery rails		Blanking plate	
Connection	Code	Order no.	
Threaded sockets 1/4	1	326000ZBL	
Material	Code	Connection diagram for plug	
Aluminium	14	Form A (DIN EN 175301-803)	
DN [mm]	Battery rail	Order no.	
2	2-fold	326 2Z 114 002	
	3-fold	326 2Z 114 003	
	4-fold	326 2Z 114 004	
	5-fold	326 2Z 114 005	
	6-fold	326 2Z 114 006	
	7-fold	326 2Z 114 007	
	8-fold	326 2Z 114 008	
	9-fold	326 2Z 114 009	
	10-fold	326 2Z 114 010	

For further solenoid valves, accessories and other products, please see our Product Range catalogue and Price List. Contact GEMÜ.



**GEMÜ**® VALVES, MEASUREMENT  
AND CONTROL SYSTEMS