

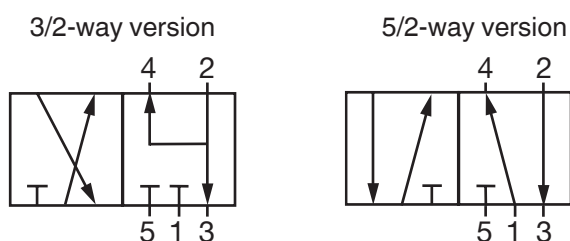
The GEMÜ 8506 3/2-, 5/2-way servo assisted solenoid valve is indirectly controlled. This version has an aluminium body and a detachable coil encapsulated in plastic. Internally the piston slide valve has a soft elastomer seal.

Features

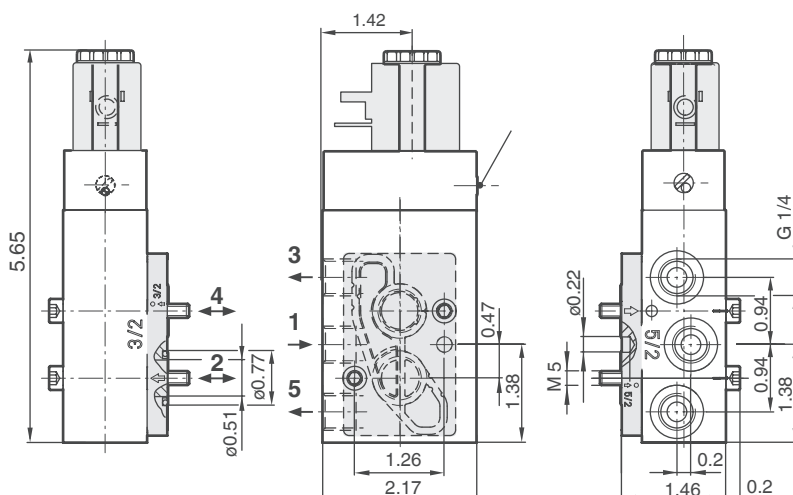
- Suitable for the control of single and double acting pneumatic cylinders and actuators
- Filtered, lubricated or unlubricated compressed air is a suitable working medium
- The solenoid valve can be converted from 3/2-way to 5/2-way by replacing the supplied Namur plate
- Standard manual override

Advantages

- The valve can be mounted in any position
- The coil can be replaced without removing the valve body from the pipeline
- The coil can be rotated by 90°
- Simple conversion from 3/2-way valve to 5/2-way valve
- Supplied complete with plug



Dimensions [inch]



Technical data

Working medium

Filtered, lubricated* or unlubricated compressed air which has no negative impact on the physical and chemical properties of the body and seal material.

* Lubricants with DVI-values < 8 (DIN 53521) and ISO viscosity class 32-46 (DIN 51519)

Perm. temp. of working medium 14 °F to 122 °F
Ambient temperature 14 °F to 122 °F

Protection class

IP 65 (with plug)

Power consumption

AC operation 4.9 VA
DC operation 2.7 W

Rating

Continuously rated

Alternative versions

ATEX

Switching time

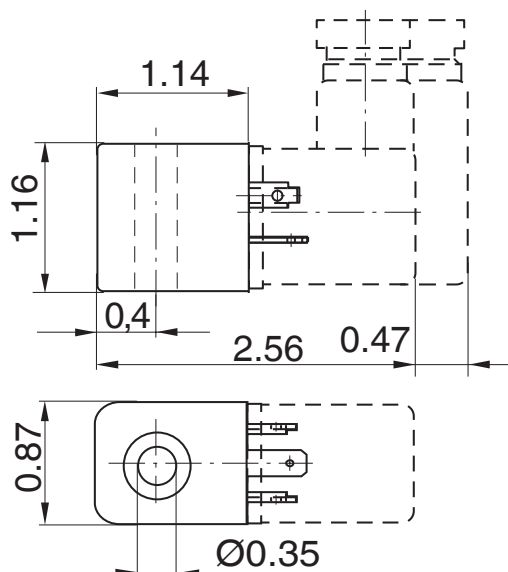
approx. 27 ms

Nominal size	Operating pressure	Flow rate value	Weight
DN	[psi]	[gpm]	[lbs]
6	30 - 120	84.24	0.9

Wiring note:

Special wiring on request. When using electronic switches and additional wiring, carefully design out any potential residual currents upon installation.

Solenoid coil dimensions



Order data

Body configuration	Code
Multi-way	M

Connection	Code
Threaded sockets DIN ISO 228	1

Valve body material	Code
Aluminium (Al)	14

Seal material	Code
NBR, Perbunan N	2

Operation / Reset	Code
Solenoid / Air spring	1

Supply voltage	Code
24V AC	24
110V AC	110
230V AC	230
24V DC	24

Mains frequency	Code
50 Hz	50
DC	DC

Special function	Code
ATEX	X

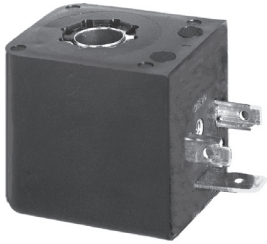
Available voltages/frequency		
AC	24V AC	50 Hz
	110V AC	50 Hz
	230V AC	50 Hz
DC	24V DC	-
	Other voltages and Ex-solenoids on request.	

Order example	8506	6	M	1	14	2	1	230	50	-
Type	8506									
Nominal size		6								
Body configuration (code)			M							
Connection (code)				1						
Valve body material (code)					14					
Seal material (code)						2				
Switching position (code)							1			
Voltage (code)								230		
Frequency (code)									50	
Special function (code)										-

Order information

Suitable plug acc. to DIN EN 175301-803 form A, loose plug: type GEMÜ 1220/1221

Accessories / Spare parts



Standard version
Solenoid GEMÜ 3033
Type no. 8506000P3033
for DC current 2.7 W
Design A (plug)

ATEX version
Ex-solenoid 3062
Type no. 8506000P3062
for DC current
Design B with 118.11 inch cable
Protection class:
II 2G Ex mb IIC T4/T5 Gb
II 2D Ex mb tb IIIC T203 °F, T130° Db

ATEX version
Ex-Solenoid 3063
Type no. 8506000P3063
for AC current
Design B with 118.11 inch cable
Protection class:
II 2G Ex mb IIC T4/T5 Gb
II 2D Ex mb tb IIIC T203°F, T130° Db

Accessories	Type	Application
Silencer*	1750000ZA214K0K1	Line connection G 1/4; plastic
Exhaust air throttle*	2022000ZA214K000D100CG3	Line connection G 1/4; plastic

* is required 2x, both for operation as a 5/2-way and 3/2-way valve

Spare parts	Type	Application
Function plate 3/2	8506000FP3-2	for mounting on single acting actuator with NAMUR hole pattern
Function plate 5/2	8506000FP5-2	for mounting on double acting actuator with NAMUR hole pattern

Further pilot valves, metal



GEMÜ 8303
3/2-way metal pilot valve,
directly controlled,
brass or stainless steel,
DN 2 (15 - 150 psi)



GEMÜ 8357
3/2-way metal pilot valve,
servo assisted, aluminium
DN 6 (15 - 150 psi)



GEMÜ 8505
4/2-way metal pilot valve,
servo assisted, aluminium
DN 4 + 7 (22/15 - 150 psi)

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

GEMÜ® VALVES, MEASUREMENT
AND CONTROL SYSTEMS

