

Solenoid Valve, Metal

Construction

The GEMÜ 8258 2/2-way servo assisted solenoid valve has a brass or stainless steel valve body. The detachable solenoid coil is encapsulated in glass reinforced epoxy resin. All medium wetted parts are made of stainless steel, NBR, PVDF or brass.

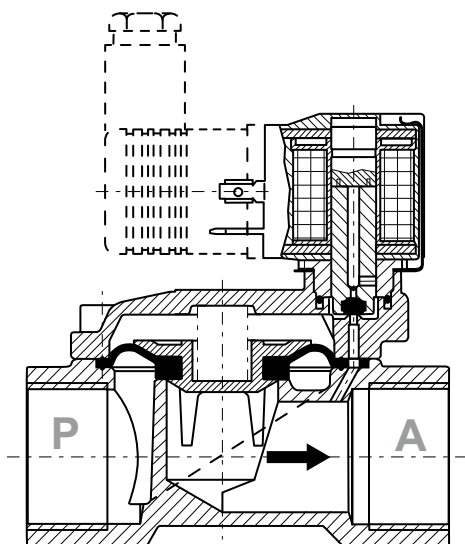
The electrical connection is made via a plug to DIN EN 175301-803 form A. The coil has isolation class F as standard. The valve is suitable for inert media such as air, water and oil.

Advantages

- Low power consumption
- Excellent flow capability
- Soft closing action
- Low minimum pressure differential
- Simple compact design
- Simple coil replacement without tools (**Click-on®**)
- Optional manual override
- Explosion protected solenoids acc. to ATEX available as an option
- Type examination up to DN 25 to DIN EN 60730-2-8
- Optional mounting bracket available (not pre-assembled)
- NPT thread available
- CSA approvals available (not with special function ATEX)



Sectional drawing GEMÜ 8258



P = Inlet, A = Outlet

Technical data

Working medium

Inert gaseous or liquid media which have no negative impact on the physical and chemical properties of the body and seal material.

Max. perm. viscosity of working medium

25 mm²/s (cSt)

Note: When used with contaminated media we recommend installing a strainer in front of the valve (on request)

Perm. temperature of working medium

Seal material NBR -10° to 90° C

Seal material EPDM* 0° to 110° C

Seal material FPM* -5° to 110° C

* only liquid media

Higher temperatures on request

Ambient temperature

-10° to +50° C

Mounting position

Optional, preferably coil vertically upwards

Rating

Continuously rated

Power consumption

AC operation:

Pull in		
DN 8 - 50	Control function 1	15 VA
DN 8 - 25	Control function 2	15 VA
DN 32 - 50	Control function 2	45 VA
Hold in		
DN 8 - 50	Control function 1	12 VA
DN 8 - 25	Control function 2	12 VA
DN 32 - 50	Control function 2	35 VA

DC operation:

Pull in		
DN 8 - 50	Control function 1	8 W
DN 8 - 25	Control function 2	8 W
DN 32 - 50	Control function 2	18 W
Hold in		
DN 8 - 50	Control function 1	7 W
DN 8 - 25	Control function 2	7 W
DN 32 - 50	Control function 2	17 W

Protection class

IP 65 (with connector plug)

Permissible voltage tolerance

±10 % to VDE 0580

Approval

KTW (≤ DN 25, seal material EPDM)

CSA approval

Nominal size	Connection Threaded sockets		Operating pressure [bar]		K _v value	Weight
[mm]	DIN ISO 228 Code 1	NPT Code 31	Control function Normally closed Code 1	Control function Normally open Code 2	[m ³ /h]	[kg]
8	G 1/4	1/4" NPT	0.1 / 0.3** - 16	0.1 / 0.3** - 16	1.9	0.47
10	G 3/8	3/8" NPT	0.1 - 16	0.1 - 16	3.0	0.45
15	G 1/2	1/2" NPT	0.1 - 16	0.1 - 16	3.8	0.50
20	G 3/4	3/4" NPT	0.1 - 16	0.1 - 16	6.1	0.65
25	G 1	1" NPT	0.1 - 16	0.1 - 16	9.5	0.95
32	G 1 1/4	1 1/4" NPT	0.1 - 10	0.1 - 16	23.0	2.73
40	G 1 1/2	1 1/2" NPT	0.1 - 10	0.1 - 16	25.0	2.53
50	G 2	2" NPT	0.1 - 10	0.1 - 16	41.0	3.85

* The operating pressure applies to free discharge conditions. In closed systems Δp between the inlet and outlet must be at least 0.1 bar.
DN 32-50: Higher operating pressures on request. ** Seal material EPDM

Wiring note

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

Order data for mounting bracket (incl. fixing screws)

Size	Part number	Order number
DN 8 - 15	8258 000 P 12	88293212
DN 20	8258 000 P 20	88293213
DN 25	8258 000 P 25	88293214
DN 32 - 40	8258 000 P 40	88293215
DN 50	8258 000 P 50	88293216

Order data

Body configuration	Code
2/2-way	D

Connection	Code
Threaded sockets DIN ISO 228	1
Threaded sockets NPT	31

Valve body material	Code
CW617N, brass	12
1.4408, stainless steel	37

Seal material	Code
NBR (Perbunan N)	2
FPM	4
EPDM	14

Control function	Code
Normally closed	1
Normally open	2
Normally closed, with manual override	S

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

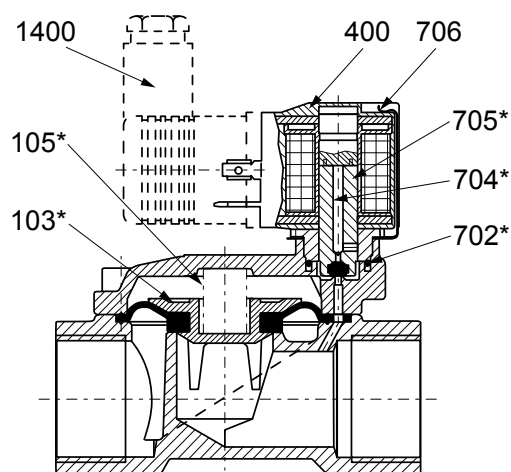
Mains frequency	Code
50/60 Hz	50/60
DC	DC

Special function	Code
ATEX marking: Ex II 2 G EEx m II T4 II 2 D T130°C	X
Other versions according to ATEX or US regulations on request	

Available voltages / Frequency		
AC	24 V AC	50/60 Hz
	110 V AC	50/60 Hz
	230 V AC	50/60 Hz
DC	24 V DC	-

Order example	8258	25	D	1	12	2	1	230	50/60	X
Type	8258									
Nominal size		25								
Body configuration (code)			D							
Connection (code)				1						
Valve body material (code)					12					
Seal material (code)						2				
Control function (code)							1			
Supply voltage (code)								230		
Mains frequency (code)									50/60	
Special function (code)										X

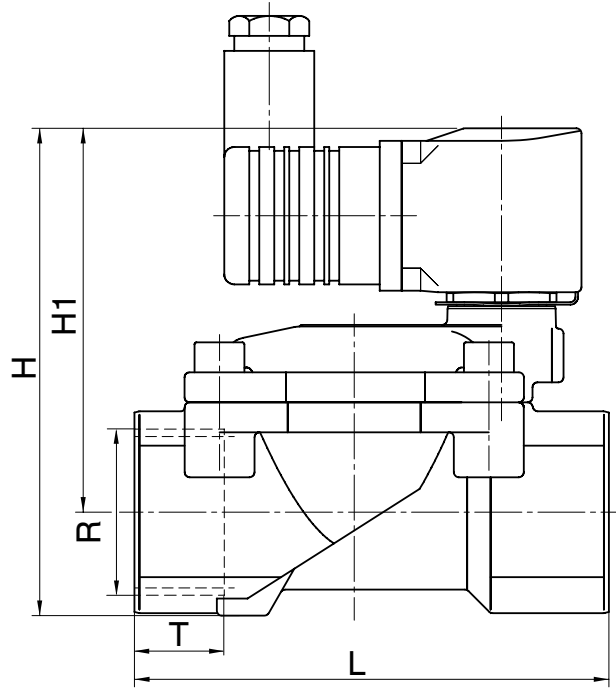
Spare parts



- *103 Diaphragm
- *105 Compression spring
- 400 Solenoid
- *702 O-ring
- *704 Compression spring
- *705 Armature
- 706 Spring clip
- 1400 Connector plug

All parts marked with * are included in the wearing parts kit. When ordering spare parts, please indicate complete valve order number.

Dimensions - GEMÜ 8258



Body dimensions GEMÜ 8258 [mm]

DN	L	Control function 1 normally closed		Control function 2 normally open		Threaded sockets DIN ISO Connection code 1		Threaded sockets NPT Connection code 31	
		H	H1	H	H1	R	T	R	T
8	60	78.5	67.0	78.5	67.0	G 1/4	12	1/4" NPT	10.0
10	60	78.5	67.0	78.5	67.0	G 3/8	12	3/8" NPT	10.5
15	67	81.0	67.0	81.0	67.0	G 1/2	14	1/2" NPT	13.5
20	80	88.0	71.5	88.0	71.5	G 3/4	16	3/4" NPT	14.0
25	95	97.5	77.0	97.5	77.0	G 1	18	1" NPT	17.0
32	132	124.5	95.5	142	113.0	G 1 1/4	20	1 1/4" NPT	17.0
40	132	124.5	95.5	142	113.0	G 1 1/2	22	1 1/2" NPT	17.0
50	160	142.5	108.0	160	125.5	G 2	24	2" NPT	17.5

Technical data sheet

Should there be any doubts or misunderstandings, the German version of this data sheet is the authoritative document!

Subject to alteration · 07/2017 · 88210801

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

GEMÜ® VALVES, MEASUREMENT
AND CONTROL SYSTEMS

