GEMÜ 8259

Electrically operated solenoid valve

Features

- Direct acting, normally open or normally closed
- Valve operates without minimum pressure differential
- High flow rate
- Compact design
- Simple coil replacement without tools (Click-on®)
- Suitable for vacuum applications
- Explosion protected solenoids acc. to ATEX available as an option
- Various threaded connections per nominal size
- CSA approval available

Description

The GEMÜ 8259 2/2-way direct acting solenoid valve has a brass or stainless steel valve body. All media wetted parts are made of FKM, NBR, PTFE, EPDM, brass or stainless steel. The valve is suitable for inert liquids and gases.

Technical specifications

- **Media temperature :** -10 to 110 °C
- **Ambient temperature:** -10 to 50 °C
- **Operating pressure :** 0 to 20 bar
- **Nominal sizes:** DN 2 to 5
- **Connection types:** Threaded connection
- **Connection standards:** DIN I ISO I NPT
- **Body materials:** 1.4408, investment casting material I CW617N, brass
- **Supply voltages:** 110 V AC, 50 Hz I 230 V AC, 50 Hz I 24 V DC
- **Conformities:** ATEX I EAC

Technical data depends on the respective configuration

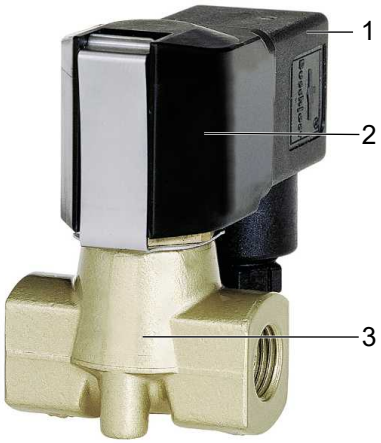
further information
webcode: GW-8259

Product line

	GEMÜ 8253	**GEMÜ 8257**	**GEMÜ 8258**	**GEMÜ 8259**
Nominal sizes	DN 8 to 50	DN 10	DN 8 to 50	DN 2 to 5
Voltage				
110 V AC, 50 Hz	-	-	-	●
110 V AC, 50/60 Hz	●	-	●	-
230 V AC, 50 Hz	-	●	-	●
230 V AC, 50/60 Hz	●	-	●	-
230 V AC, 60 Hz	-	●	-	-
24 V AC, 50 Hz	-	●	-	-
24 V AC, 50/60 Hz	●	-	●	-
24 V AC, 60 Hz	-	●	-	-
24 V DC	●	●	●	●
Media temperature *	-10 to 110 °C	-10 to 150 °C	-10 to 110 °C	-10 to 110 °C
Operating pressure *	0 to 16 bar	0 to 10 bar	0,1 to 16 bar	0 to 20 bar
Connection types				
Threaded connection	●	●	●	●
Body material				
1.4408, investment casting material	●	●	●	●
CW617N, brass	●	●	●	●

* depending on version and/or operating parameters

Product description



Item	Name	Materials
1	Plug	PA
2	Coil	Duresco NU 463V
3	Valve body	1.4408, investment casting material l CW617N, brass
	Seal material	NBR (standard for brass valve body), FKM (standard for stainless steel valve body), PTFE or EPDM

Availabilities

	Connection	Control function	
	Threaded socket DIN ISO 228	Normally closed	Normally open
DN 2	G 1/8	X	-
	G 1/4	X	X
	G 3/8	X	-
DN 3	G 1/8	X	-
	G 1/4	X	X
	G 3/8	X	-
DN 4	G 1/8	X	-
	G 1/4	X	X
	G 3/8	X	-
DN 5	G 1/8	X	-
	G 1/4	X	-
	G 3/8	X	-

Order data

The order data provide an overview of standard configurations.

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

Order codes

1 Type	Code
Solenoid valve, directly controlled	8259

2 DN	Code
DN 2	2
DN 3	3
DN 4	4
DN 5	5

3 Body configuration	Code
2/2-way body	D

4 Connection type	Code
G 1/8, threaded socket DIN ISO 228	G1
G 1/4, threaded socket DIN ISO 228	G2
G 3/8, threaded socket DIN ISO 228	G3

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

6 Seal material	Code
NBR	2
FKM	4
PTFE	5
EPDM	14

7 Control function	Code
Normally closed (NC)	1
Normally open (NO)	2

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

9 Frequency	Code
DC	DC
50 Hz	50

10 Special version	Code
Without	
ATEX version	X

Order example

Ordering option	Code	Description
1 Type	8259	Solenoid valve, directly controlled
2 DN	3	DN 3
3 Body configuration	D	2/2-way body
4 Connection type	G1	G 1/8, threaded socket DIN ISO 228
5 Valve body material	12	CW617N (brass)
6 Seal material	4	FKM
7 Control function	1	Normally closed (NC)
8 Voltage	230	230 V
9 Frequency	50	50 Hz
10 Special version		Without

Technical data

Medium

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

Max. permissible viscosity: 25 mm²/s (cSt)
Note: When used with contaminated media we recommend installing a strainer in front of the valve (on request)

Temperature

Media temperature: Seal material
NBR (code 2): -10 to 90 °C
EPDM (code 14): -10 to 110 °C
FKM (code 4): -10 to 110 °C
PTFE (code 5): -10 to 110 °C

Ambient temperature: -10 — 50 °C

Storage temperature: 0 — 40 °C

Product conformity

Approvals: KTW (contact with drinking water) approval (≤ DN 25, gasket EPDM) (not for ATEX version)
CSA approval (not for ATEX version)

Explosion protection: Special version X order code

ATEX marking: Gas: Ⓔx II 2G Ex eb mb IIC T4 Gb
Dust: Ⓔx II 2D Ex mb tb IIIB T125°C-135°C Db

Type examination certificate: PTZ 16 ATEX 0011 X

Mechanical data

Installation position: Optional

Weight:

DN 2	DN 3	DN 4	DN 5
0.33	0.57	0.57	0.57

Weights in kg

Protection class: IP 65 (with plug)

Isolation class: F

Pressure

Operating pressure: Control function - Normally closed (code 1)

DN 2	DN 3	DN 4	DN 5
0 - 10 bar	0 - 20 bar	0 - 12 bar	0 - 6 bar

Control function - Normally open (code 2)

DN 2	DN 3	DN 4	-
0 - 6 bar	0 - 16 bar	0 – 8 bar	-

Kv values:

DN 2	DN 3	DN 4	DN 5
0.15	0.21	0.35	0.50

Kv values in m³/h

Electrical data

Power consumption:

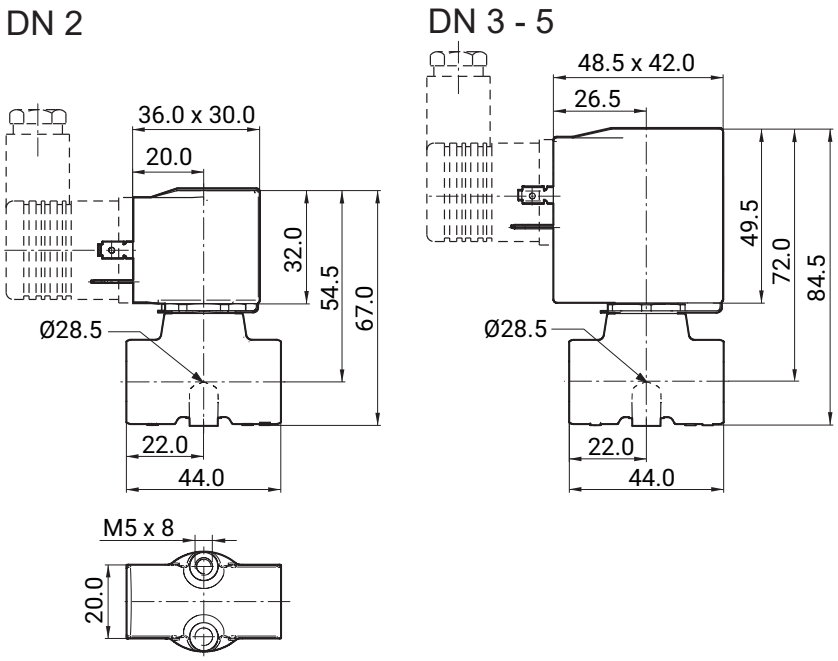
AC operation		
Pull in	DN 2	15 VA
	DN 3 - 5	45 VA
Hold in	DN 2	12 VA
	DN 3 - 5	35 VA
DC operation		
Pull in	DN 2	8 W
	DN 3 - 5	18 W
Hold in	DN 2	7 W
	DN 3 - 5	17 W

Permissible voltage tolerance: ±10 % to VDE 0580

Duty cycle: Continuous duty

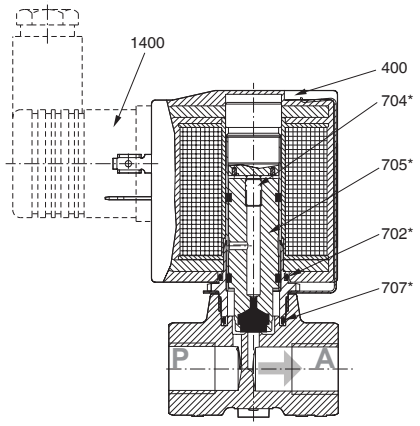
Wiring note: Special wiring on request. When using electronic switches and additional wiring, carefully design out any potential residual currents upon installation.

Dimensions



Dimensions in mm

Spare parts



P = inlet A = outlet

400	Solenoid
702*	O-ring
704*	Compression spring
705*	Armature
707	O-ring
1400	Plug (in an accessory pack)

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

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