

# GEMÜ Code 4A/4

# FKM diaphragm



#### **Features**

- Fabric reinforced (diaphragm size 25 to diaphragm size 150)
- Resistant to aggressive chemicals such as hydrocarbons (aromatic, non-aromatic and chlorinated), mineral acids and chlorine bleach
- · Ozone and weather resistant
- Simple mounting thanks to the rubber pin that is vulcanized in place (diaphragm size 8)
- Simple and defined mounting thanks to a threaded pin which is vulcanized in place with an integrated screw-in stop (diaphragm size 10 to diaphragm size 150)

### **Description**

The GEMÜ code 4A/4 FKM diaphragm has been developed for use in industrial applications, for example in the chemical industry, environmental engineering and the processing industry. The diaphragm is made of fluorinated rubber.

## **Technical specifications**

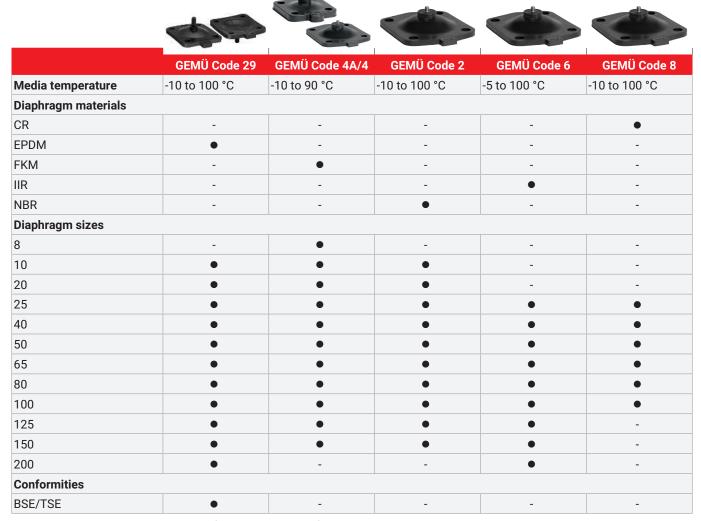
• Media temperature: -10 to 90 °C

• Diaphragm material: FKM

• Diaphragm sizes: 8 | 10 | 20 | 25 | 40 | 50 | 65 | 80 | 100 | 125 | 150

Technical data depends on the respective configuration

### **Product comparison**



Each application must be analysed before the selection of the diaphragm material. Since the most varied operating conditions often prevail within a plant at different locations, it can be necessary to use different valves and materials. In particular, the chemical properties and the temperature of the working media often lead to different interactions. The suitability of the materials used must therefore always be examined individually with regard to the current resistance list or checked by an authorised specialist. Only this procedure guarantees that the application will operate safely and economically for a longer period. Diaphragms are wearing parts. They need to be regularly inspected and replaced otherwise malfunctions can occur, possibly resulting in hazardous situations.

Please note: The maintenance intervals for inspecting and replacing diaphragms are application-dependent. In order to determine a suitable maintenance interval, the maintenance history and the stresses placed on the parts due to frequent cycle duties must be taken into account.

## **Product comparison**



	GEMÜ Code 5T	GEMÜ Code 56	GEMÜ Code 71							
Media temperature	-10 to 100 °C	-10 to 100 °C	-20 to 100 °C							
Diaphragm materials										
PTFE/FKM	•	•	-							
PTFE/PVDF/EPDM	-	-	•							
Diaphragm sizes										
10	•	•	•							
20	-	•	-							
25	•	•	•							
40	•	•	•							
50	•	•	•							
65	-	•	-							
80	•	•	•							
100	•	•	•							
Conformities										

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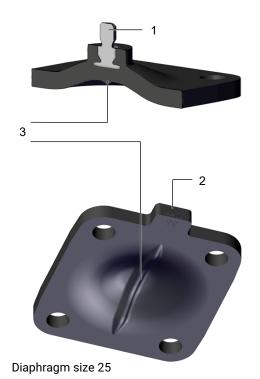
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# **Product description**





Diaphragm size 8



Item	Name
1	Threaded pin vulcanized in place with integrated screw-in stop
2	Tab
3	Sealing bead for reliable sealing on the valve weir
4	Rubber pin

# 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
Diaphragm	600
Diaphragm	620
Diaphragm	R690
2 Diaphragm size	Code
Diaphragm size 8	8
Diaphragm size 10	10
Diaphragm size 20	20
Diaphragm size 25	25
Diaphragm size 40	40
Diaphragm size 50	50
Diaphragm size 65	65
Diaphragm size 80	80
Diaphragm size 100	100
Diaphragm size 125	125

2 Continuation of Diaphragm size	Code				
Diaphragm size 150					
3 Replacement diaphragm	Code				
Replacement diaphragm	М				
4 Diaphragm material	Code				
FKM	4A				
FKM	4				
5 Type of design	Code				
Without					
Media wetted area cleaned to ensure suitability for paint applications, parts sealed in plastic bag	0101				
Media wetted parts cleaned for high purity media and packed in plastic bag	0104				
6 CONEXO	Code				

# Order example

Ordering option	Code	Description
1 Type	600	Diaphragm
2 Diaphragm size	25	Diaphragm size 25
3 Replacement diaphragm	М	Replacement diaphragm
4 Diaphragm material	4	FKM
5 Type of design		Without
6 CONEXO		Without

Without

#### Technical data

#### Medium

Working medium:

Corrosive, inert, gaseous and liquid media which have no negative impact on the physical and chemical properties of the body and diaphragm material.

In contrast to EPDM diaphragms, FKM diaphragms are resistant to the following substances, among others:

- · Waste water
- Petrol
- Biogas
- Diesel
- · Natural gas
- · Air containing oil
- Oxygen
- · Crude oil
- Mineral oil

#### **Temperature**

**Media temperature:**  $-10 - 90 \, ^{\circ}\text{C}$ 

Storage temperature: Storage temperature in accordance with technical information "Service life, storage and marking of

GEMÜ diaphragms".

#### **Pressure**

Operating pressure: max. 10 bar (dependent on the diaphragm valve used)

**Vacuum:** Can be used up to a vacuum of 70 mbar (absolute)

#### Mechanical data

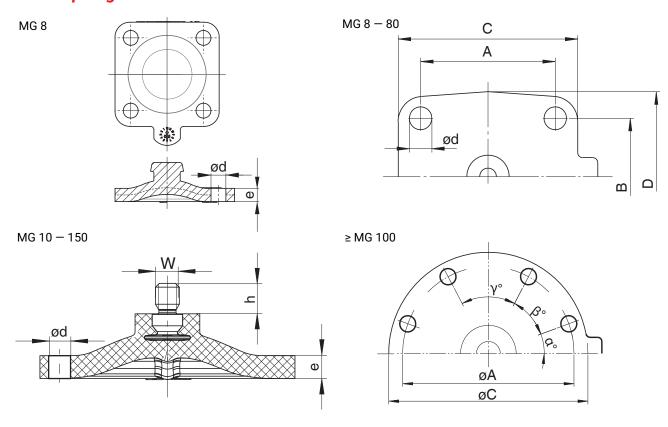
Service life: Max. recommended service life, 10 years

The service life is the sum of the storage life and operating life.

Note the Technical Information "Service life, storage and marking of GEMÜ diaphragms".

# **Dimensions**

### **FKM diaphragms**



MG	DN	NPS	Α	В	С	D	ød	е	h	W	α	β	Υ	n
8	4 - 15	1/4" - 1/2"	22.0	22.0	31.5	31.5	4.5	4.0	5.6	-	-	-	-	4
10	10 - 20	3/8" - 3/4"	39.0	44.0	48.0	53.0	5.2	5.5	9.0	M4	-	-	-	4
20	15 - 25	1/2", 3/4", 1"	44.5	40.0	61.5	57.0	6.4	5.0	9.0	5/32"	-	-	-	4
25	15 - 25	1/2" - 1"	54.0	46.0	72.0	67.0	9.0	7.0	8.0	1/4"	-	-	-	4
40	32 - 40	1¼" - 1½"	70.0	65.0	100.0	90.0	11.0	8.0	8.0	1/4"	-	-	-	4
50	50	2"	82.0	78.0	124.0	106.0	12.7	8.0	7.0	1/4"	-	-	-	4
65	65	21/2"	102.0	95.0	145.0	133.0	14.0	10.0	9.0	5/16"	-	-	-	4
80	80	3"	127.0	114.0	186.0	156.0	18.0	11.5	8.0	5/16"	-	-	-	4
100	100	4"	196.2	-	230.0	-	13.0	11.0	9.0	5/16"	28.0°	42.0°	40.0°	8
125	125	5"	222.0	-	260.0	-	17.0	11.5	10.7	3/8"	25.0°	43.5°	43.5°	8
150	150	6"	273.0	-	305.0	-	17.0	11.5	11.0	3/8"	20.0°	35.0°	35.0°	10

Dimensions in mm, MG = diaphragm size

n = number of bolt holes

The thread of the diaphragm pin "W" corresponds to Whitworth standard.





