

GEMÜ Code 6 Butyl diaphragm



Features

- Fabric reinforced (from diaphragm size 25 to diaphragm size 200)
- Good resistance to diluted inorganic acids, alkalis and saline solutions
- Good weather resistance and very suitable for water and ozone
- Low gas permeability
- Unsuitable for oils and hydrocarbon

Description

The GEMÜ IIR diaphragm code 6 has been developed for use in industrial applications, for example in mining, ore processing and hydrometallurgy, in the fertilizer industry/phosphate production/phosphoric acid manufacturing. The diaphragm is made of isobutene isoprene rubber.

Technical specifications

• Media temperature : -5 to 100 °C

- · Diaphragm material: IIR
- Diaphragm sizes: 25 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200
- Technical data depends on the respective configuration



Product comparison

	1						
	GEMÜ Code 29	GEMÜ Code 4A/4	GEMÜ Code 2	GEMÜ Code 6	GEMÜ Code 8		
Media temperature	-10 to 100 °C	-10 to 90 °C	-10 to 100 °C	-5 to 100 °C	-10 to 100 °C		
Diaphragm materials							
CR	-	-	-	-	•		
EPDM	•	-	-	-	-		
FKM	-	•	-	-	-		
lir	-	-	-	•	-		
NBR	-	-	•	-	-		
Diaphragm sizes							
8	-	•	-	-	-		
10	•	•	•	-	-		
20	•	•	•	-	-		
25	•	•	•	•	•		
40	•	•	•	•	•		
50	•	•	•	•	•		
65	•	•	•	•	•		
80	•	•	•	•	•		
100	•	•	•	•	•		
125	•	•	•	•	-		
150	•	•	•	•	-		
200	•	-	-	•	-		
Conformities	1						
BSE/TSE	•	•	•	•	•		

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	•	•	•
80	•	•	•
100	•	•	•
Conformities			
BSE/TSE	•	•	•

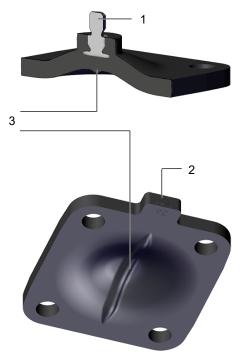
Each application must be analysed before the selection of the diaphragm material. Since the most varied operating conditions often prevail within a plant at different locations, it can be necessary to use different valves and materials. In particular, the chemical properties and the temperature of the 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 description

Construction



Diaphragm size 25

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



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 Туре	Code				
Diaphragm	600				
Diaphragm	620				
2 Diaphragm size	Code				
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				
Diaphragm size 150	150				
Diaphragm size 200	200				

3 Replacement diaphragm	Code
Replacement diaphragm	М
4 Diaphragm material	Code
IIR	6
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
Without	

Order example

Ordering option	Code	Description
1 Туре	600	Diaphragm
2 Diaphragm size	25	Diaphragm size 25
3 Replacement diaphragm	М	Replacement diaphragm
4 Diaphragm material	6	IIR
5 Type of design		Without
6 CONEXO		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 diaphragm material.
Temperature	
Media temperature:	-5 — 100 °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)

Mechanical data

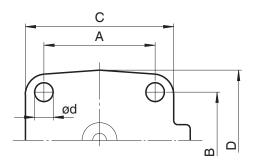
Service life:

Max. recommended service life in accordance with technical information "Service life, storage and marking of GEMÜ diaphragms".

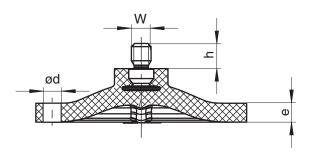


Dimensions

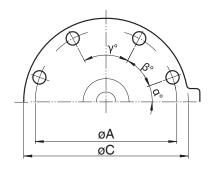
Butyl (IIR) diaphragms







MG 25 to 200



MG 100

MG	DN	NPS	Α	В	С	D	ød		h	W	α	β		
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
200	200	8"	381.0	-	410.0	-	19.0	120.0	22.0	7/8"	18.0°	27.0°	22.5°	14

Dimensions in mm, MG = diaphragm size

n = number of bolt holes

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







8