GEMÜ®

Diaphragm Valve, Plastic

Construction

The GEMÜ 617 manually operated 2/2-way diaphragm valve has a low-maintenance plastic bonnet. An optical position indicator is integrated as standard.

Features

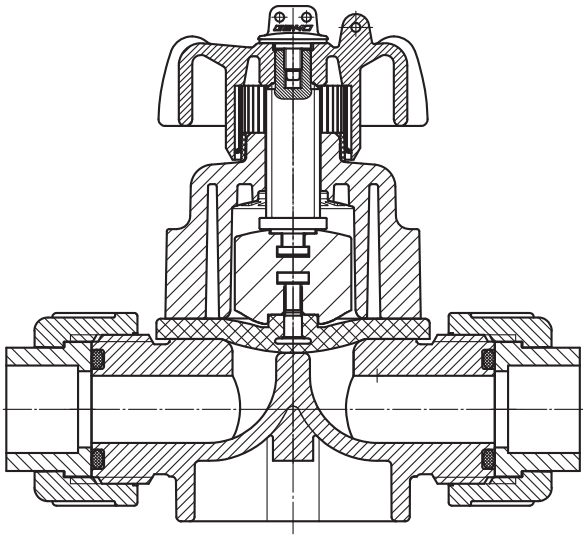
- Suitable for inert and corrosive* liquid and gaseous media
- The valve is insensitive to contaminated abrasive media
- Integral optical position indicator
- Compact design
- Valve body and diaphragm are available in various materials
- Optional flow direction and mounting position

Advantages

- All medium wetted parts and the housing are made of plastic
- High flow capability

* see information on working medium on page 2

Sectional drawing



GEMÜ® 617

Technical data

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.

Ambient temperature

Valve body PVC-U / PP	5 to 60° C
Valve body PVDF	-20 to 60° C

Working medium temperature

Valve body PVC-U	5 to 60° C
Valve body PP	5 to 80° C
Valve body PVDF	-20 to 80° C

The permissible operating pressure depends on the working medium temperature.

Pressure / temperature correlation for plastic

Temperature [C°] (plastic body)		-20	-10	±0	5	10	20	25	30	40	50	60	70	80
Valve body material		**Perm. operating pressure [bar]**												
PVC-U	Code 1	-	-	-	6.0	6.0	6.0	6.0	4.8	3.6	2.1	0.9	-	-
PP	Code 5	-	-	-	6.0	6.0	6.0	6.0	5.1	4.2	3.3	2.4	1.6	0.9
PVDF	Code 20	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.4	4.8	4.3	3.8	3.2	2.8

Data for extended temperature ranges on request.

Please note that the ambient temperature and medium temperature generate a combined temperature at the valve body which must not exceed the above values.

All pressures are gauge pressures. Operating pressure values were determined with static operating pressure applied on one side of a closed valve. Sealing at the valve seat and atmospheric sealing is ensured for the given values.
Information on operating pressures applied on both sides and for high purity media on request.

		K_V values	Weight
Diaphragm size	**DN**	**[m³/h]**	**[g]**
10	12	2,8	210
	15	3,5	260

O-ring material for valve bodies with union ends

Diaphragm material	O-ring material
NBR	EPDM
FPM	FPM
EPDM	EPDM
PTFE	FPM

Other combinations on request

Order data

Body configuration	Code
2/2-way	D

Connection	Code
Threaded sockets DIN ISO 228	1
Solvent cement sockets DIN	2
Union ends with DIN sockets	7
Spigots for IR butt welding, BCF	28
Union ends with inch sockets	33
Union ends with DIN spigots for IR butt welding	78

Valve body material	Code
PVC-U, grey	1
PP	5
PVDF	20

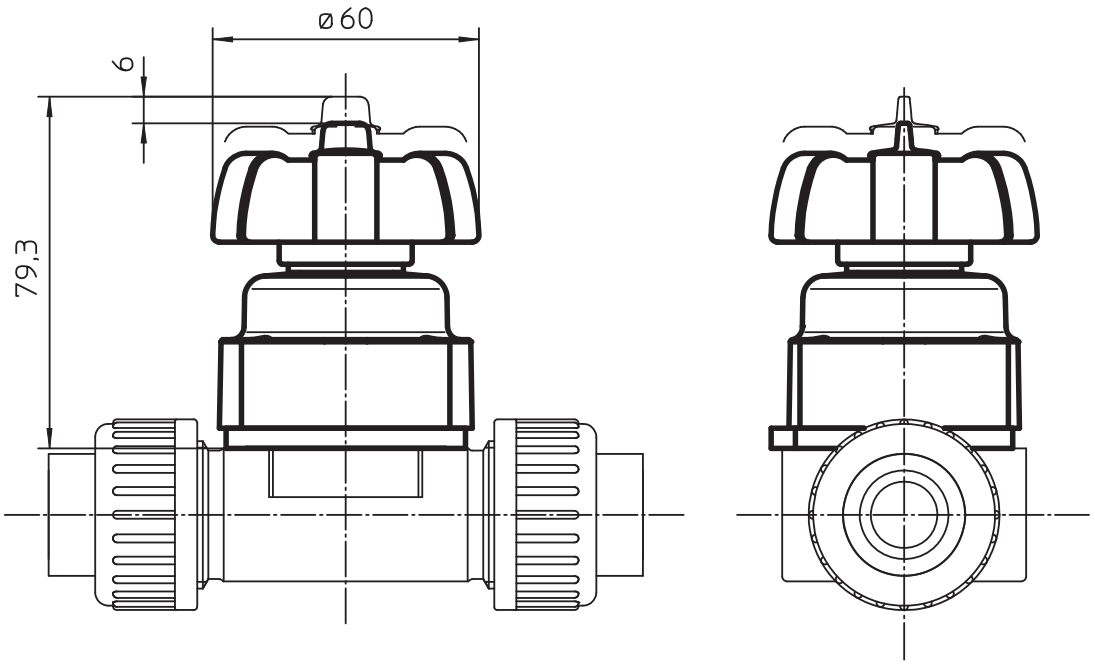
Diaphragm material	Code
NBR	2
FPM	4
EPDM	14
PTFE/EPDM	52

Control function	Code
Manually operated	0

Integrated mounting plate	Code
With integrated mounting plate Material code 20	M
Without mounting plate Material code 20	O
Without mounting plate Material code 1 and 5	-

Order example	617	15	D	7	1	14	0	-
Type	617							
Nominal size		15						
Body configuration (code)			D					
Connection (code)				7				
Valve body material (code)					1			
Diaphragm material (code)						14		
Control function (code)							0	
Integrated mounting plate (code)								-

Bonnet dimensions [mm]

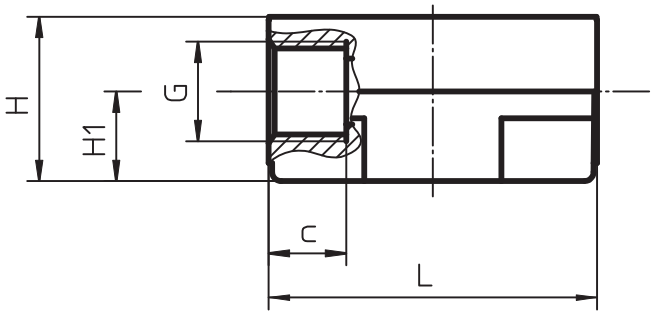


Body dimensions

Threaded sockets, connection code 1 [mm]
Valve body material PVC-U (Code 1), PP (Code 5), PVDF (Code 20)

MG	DN	D	c	H Material code 1, 5	H Material code 20	H1 Material code 1, 5	H1 Material code 20	L
10	12	G 3/8	13	27.5	31.5	15	19	55

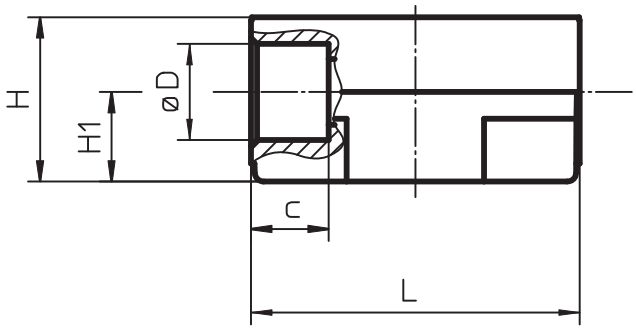
For materials see overview on last page. MG = diaphragm size



Solvent cement sockets, connection code 2 [mm]
Valve body material PVC-U (Code 1)

MG	DN	D	c	H	H1	L
10	12	Ø16	13	27.5	15	55

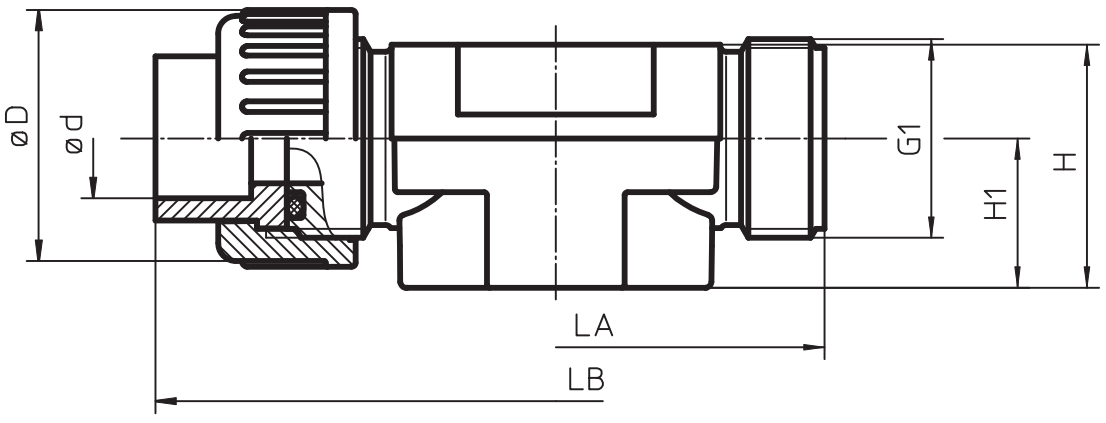
For materials see overview on last page. MG = diaphragm size



Union ends with sockets, connection code 7, 33 [mm]
Valve body material PVC-U (Code 1), PP (Code 5), PVDF (Code 20)

									Connection code 7			Connection code 33	
MG	DN	NPS	G	øD	LA	H	H1 Material code 1, 5	H1 Material code 20	LB Material code 1, 20	LB Material code 5	ød	LB	ød
10	15	1/2“	G1	43	90	30	15	25	128	125	20	128	21.4

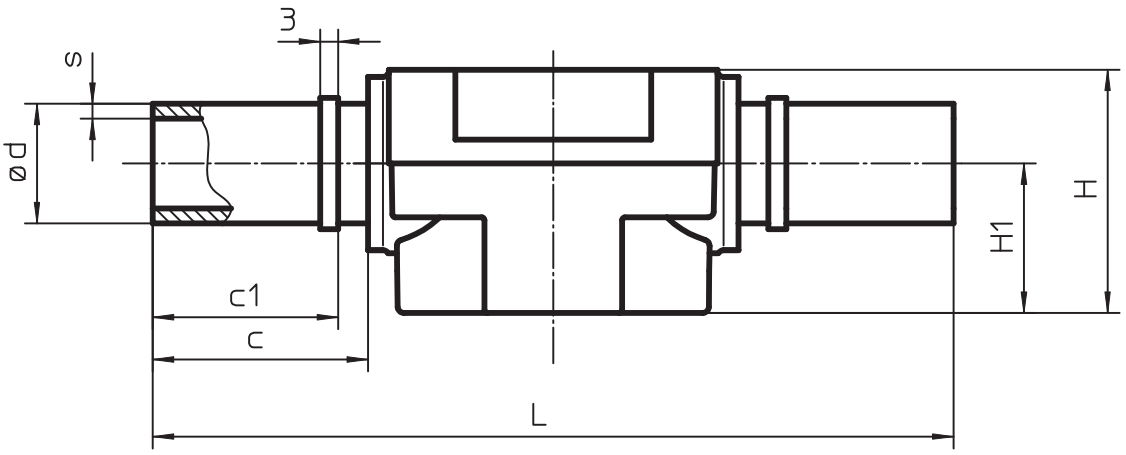
For materials see overview on last page. MG = diaphragm size



Spigots for IR butt welding, connection code 28 [mm]
Valve body material PVDF (Code 20)

MG	DN	L	H	H1	ød	s	c	c1
10	15	134	41	25	20	1.9	31	37

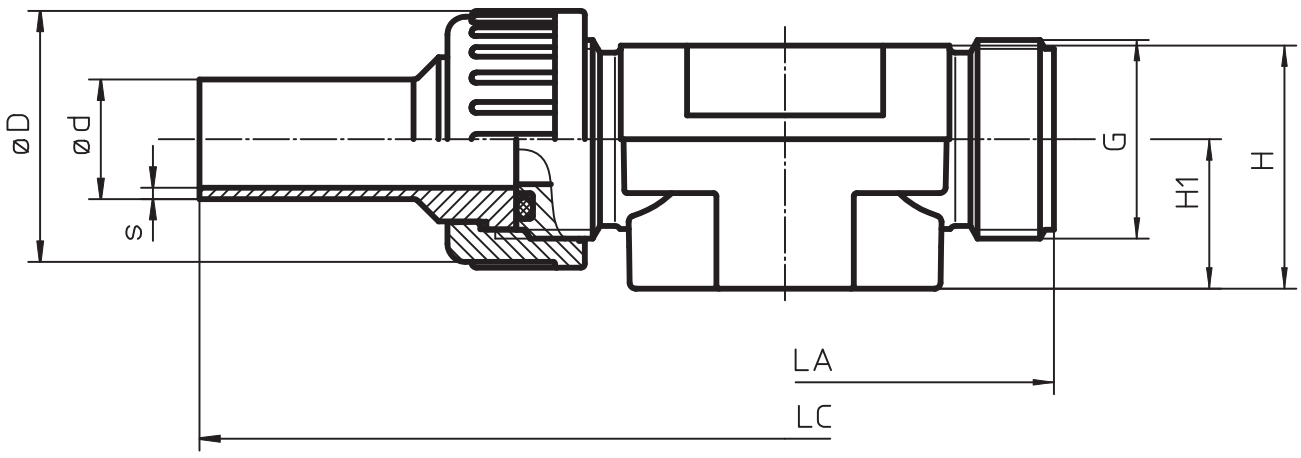
For materials see overview on last page. MG = diaphragm size



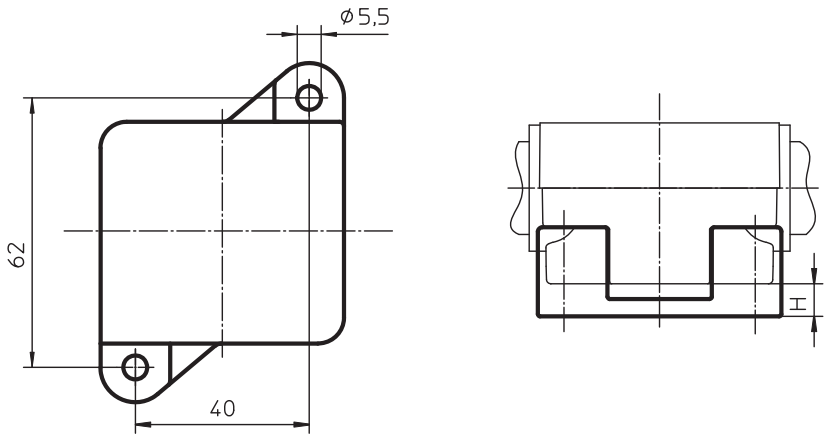
Union ends with spigots, connection code 78 [mm]
Valve body material PP (Code 5), PVDF (Code 20)

MG	DN	LA	LC	H Material code 5	H Material code 20	H1 Material code 5	H1 Material code 20	øD	G	ød	s	c
10	15	90	196	30	41	15	25	42	1	20	1.9	37

For materials see overview on last page. MG = diaphragm size

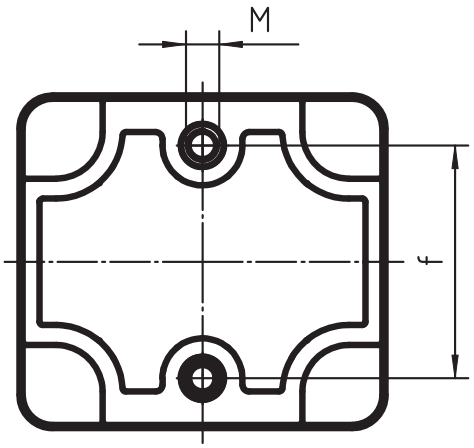


Dimensions of mounting plate GEMÜ 1041 [mm]



Material code 20	H
DN 12	5.0
DN 15	4.5

Valve body mounting dimensions [mm]



Diaphragm size	DN	M	f	Depth of thread
10	12	M5	35.0	10
	15	M5	35.0	10

Overview of valve bodies for GEMÜ 617												
Connection code		**1**			**2**	**7**			**28**	**33**	**78**	
Material code		**1**	**5**	**20**	**1**	**1**	**5**	**20**	**20**	**1**	**5**	**20**
Diaphragm size	**DN**											
10	12	X	X	X	X	-	-	-	-	-	-	-
	15	-	-	-	-	X	X	X	X	X	X	X

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

GEMÜ Gebr. Müller · Apparatebau GmbH & Co. KG · Fritz-Müller-Str. 6-8 · D-74653 Ingelfingen-Criesbach · Tel. +49 (0) 7940/123-0 · Telefax +49 (0) 7940/123-224
e-mail: info@gemue.de · http://www.gemue.de