GEMÜ R677

Manually operated diaphragm valve

Features

- Same mounting height planes over multiple nominal sizes
- Integral optical position indicator
- Compact system design thanks to flow-optimized high-flow valve bodies

Description

The GEMÜ R677 2/2-way diaphragm valve has a low maintenance plastic bonnet and is manually operated. An integral optical position indicator is standard. The high-flow valve body provides compact dimensions at high flow rates.

Technical specifications

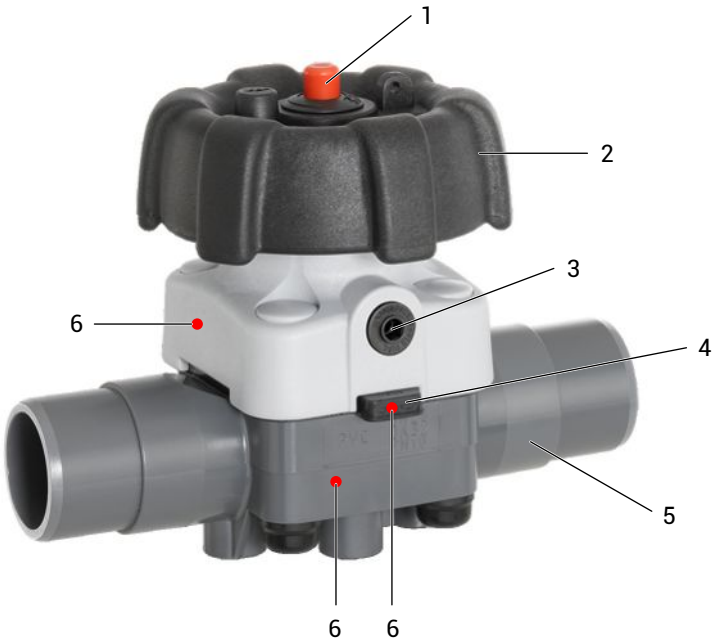
- **Media temperature:** -10 to 80 °C
- **Ambient temperature:** -10 to 50 °C
- **Operating pressure :** 0 to 10 bar
- **Nominal sizes:** DN 15 to 100
- **Body configurations:** 2/2-way body
- **Connection types:** Flange | Spigot | Union end
- **Connection standards:** ANSI | ASTM | BS | DIN | EN | ISO | JIS
- **Body materials:** ABS | Inliner PP-H, grey / outliner PP, reinforced | Inliner PVDF/outliner PP, reinforced | PP, reinforced | PVC-U, grey | PVDF
- **Diaphragm materials:** EPDM | FKM | NBR | PTFE/EPDM
- **Conformities:** EAC | FDA | NSF

Technical data depends on the respective configuration

further information
webcode: GW-R677

Product description

Construction



Item	Name	Materials
1	Optical position indicator	PP-H red
2	Actuator	PP- H 30% glass fibre reinforced
3	Optional: Threaded connection for position indicator	
4	Diaphragm	NBR, FKM, EPDM, PTFE / EPDM one-piece, PTFE / EPDM two-piece
5	Valve body	PVC-U, grey ABS PP, reinforced PVDF Inliner PP-H, grey / outliner PP, reinforced Inliner PVDF / outliner PP, reinforced
6	CONEXO RFID chip	

GEMÜ CONEXO

The interaction of valve components that are equipped with RFID chips and an associated IT infrastructure actively increase process reliability.

Thanks to serialization, every valve and every relevant valve component such as the body, actuator or diaphragm, and even automation components, can be clearly traced and read using the CONEXO pen RFID reader. The CONEXO app, which can be installed on mobile devices, not only facilitates and improves the "installation qualification" process, but also makes the maintenance process much more transparent and easier to document. The app actively guides the maintenance technician through the maintenance schedule and directly provides him with all the information assigned to the valve, such as test reports, testing documentation and maintenance histories. The CONEXO portal acts as a central element, helping to collect, manage and process all data.

For further information on GEMÜ CONEXO please visit:
www.gemu-group.com/conexo

Ordering

GEMÜ Conexo must be ordered separately with the ordering option "CONEXO" (see order data).

Availability

Availability of valve bodies

Spigot

MG	DN	Connection types code [1]									
		0					20			30	
		Material code [2]									
		1	5	20	71	75	20	71	75	1	4
20	15	X	-	-	X	X	-	X	X	X	X
	20	X	-	-	X	X	-	X	X	X	X
	25	X	-	-	X	X	-	X	X	X	X
25	32	X	-	-	X	X	-	X	X	X	X
40	40	X	-	-	X	X	-	X	X	X	X
	50	X	-	-	X	X	-	X	X	X	X
50	65	X	X	X	-	-	X	-	-	X	X
80	80	X	X	X	-	-	X	-	-	X	X
100	100	X	X	X	-	-	X	-	-	X	X

MG = diaphragm size, X = standard

1) **Connection type**
Code 0: Spigot DIN
Code 20: Spigot for IR butt welding
Code 30: Imperial butt weld spigot

2) **Valve body material**
Code 1: PVC-U, grey
Code 4: ABS
Code 5: PP, reinforced
Code 20: PVDF
Code 71: Inliner PP-H, grey, outliner PP, reinforced
Code 75: Inliner PVDF/outliner PP, reinforced

Union end

MG	DN	Connection types code [1]										
		7				7R	33		3M	3T	78	
		Material code [2]										
		1	4	71	75	1	1	4	1	1	71	75
20	15	X	X	X	X	X	X	X	X	-	X	X
	20	X	X	X	X	X	X	X	X	X	X	X
	25	X	X	X	X	X	X	X	X	X	X	X
25	25	X	X	X	X	X	X	X	X	X	X	X
40	40	X	X	X	X	X	X	X	X	X	X	X
	50	X	X	X	X	X	X	X	X	X	X	X

MG = diaphragm size, X = standard

1) **Connection type**
Code 7: Union end with insert (socket) - DIN
Code 7R: Union end with insert (Rp threaded socket) - DIN
Code 33: Union end with inch insert - BS (socket)
Code 3M: Union end with inch insert – ASTM (socket)
Code 3T: Union end with JIS insert (socket)
Code 78: Union end with insert (for IR butt welding) - DIN

2) **Valve body material**
Code 1: PVC-U, grey
Code 4: ABS
Code 71: Inliner PP-H, grey, outliner PP, reinforced
Code 75: Inliner PVDF/outliner PP, reinforced

Flange

MG	DN	Connection types code [1]									
		4					39				
		Material code [2]									
		1	5	20	71	75	1	5	20	71	75
20	15	X	-	-	X	X	X	-	-	X	X
	20	X	-	-	X	X	X	-	-	X	X
	25	X	-	-	X	X	X	-	-	X	X
25	32	X	-	-	X	X	X	-	-	X	X
40	40	X	-	-	X	X	X	-	-	X	X
	50	X	-	-	X	X	X	-	-	X	X
50	65	X	X	X	-	-	X	X	X	-	-
80	80	X	X	X	-	-	X	X	X	-	-
100	100	X	X	X	-	-	X	X	X	-	-

MG = diaphragm size, X = standard

1) **Connection type**
Code 4: Flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1
Code 39: Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D

2) **Valve body material**
Code 1: PVC-U, grey
Code 5: PP, reinforced
Code 20: PVDF
Code 71: Inliner PP-H, grey, outliner PP, reinforced
Code 75: Inliner PVDF/outliner PP, reinforced

Availability - Product conformity NSF (special function code N)

MG	DN	Connection types code									Material code	Diaphragm material (code)
		0	4	7	7R	30	33	39	3M	3T	1	17
20	**15**	X	X	X	X	X	X	X	X	-	X	X
	20	X	X	X	X	X	X	X	X	X	X	X
	25	X	X	X	X	X	X	X	X	X	X	X
25	**32**	X	X	X	X	X	X	X	X	X	X	X
40	**40**	X	X	X	X	X	X	X	X	X	X	X
	50	X	X	X	X	X	X	X	X	X	X	X
50	**65**	X	X	-	-	X	-	X	-	-	X	X
80	**80**	X	X	-	-	X	-	X	-	-	X	X
100	**100**	X	X	-	-	X	-	X	-	-	X	X

MG = diaphragm size

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 valve, manually operated, plastic handwheel, optical position indicator	R677

2 DN	Code
DN 15	15
DN 20	20
DN 25	25
DN 32	32
DN 40	40
DN 50	50
DN 65	65
DN 80	80
DN 100	100

3 Body configuration	Code
2/2-way body	D

4 Connection type	Code
Spigot	
Spigot DIN	0
Spigot for IR butt welding	20
Imperial butt weld spigot	30
Union end	
Union end with insert (socket) - DIN	7
Union end with insert (Rp threaded socket) - DIN	7R
Union end with inch insert - BS (socket)	33
Union end with inch insert – ASTM (socket)	3M
Union end with JIS insert (socket)	3T
Union end with insert (for IR butt welding) - DIN	78
Flange	
Flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1	4
Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D	39

5 Valve body material	Code
PVC-U, grey	1
ABS	4
PP, reinforced	5
PVDF	20
Inliner PP-H, grey, outliner PP, reinforced	71
Inliner PVDF/outliner PP, reinforced	75

6 Diaphragm material	Code
NBR	2
FKM	4
EPDM	17
EPDM	29
PTFE/EPDM one-piece	54
PTFE/EPDM two-piece	5M

7 Control function	Code
Manually operated (MO)	0
Manually operated, with lockable handwheel	L

8 Actuator version	Code
with position indicator	
Actuator size EDZ (diaphragm size 20)	EDZ
Actuator size EFZ (diaphragm size 20)	EFZ
Actuator size FDZ (diaphragm size 25)	FDZ
Actuator size HDZ (diaphragm size 40)	HDZ
Actuator size KDZ (diaphragm size 50)	KDZ
Actuator size MDZ (diaphragm size 80)	MDZ
Actuator size NDZ (diaphragm size 100)	NDZ
without position indicator	
Actuator size ED (diaphragm size 20)	ED
Actuator size EF (diaphragm size 20)	EF
Actuator size FD (diaphragm size 25)	FD
Actuator size HD (diaphragm size 40)	HD
Actuator size KD (diaphragm size 50)	KD
Actuator size MDL (diaphragm size 80)	MDL
Actuator size NDL (diaphragm size 100)	NDL

9 Special version	Code
NSF 61 water approval	N

10 CONEXO	Code
without	
Integrated RFID chip for electronic identification and traceability	C

Order example

Order option	Code	Description
1 Type	R677	Diaphragm valve, manually operated, plastic handwheel, optical position indicator
2 Body configuration	D	2/2-way body
3 Connection type	7	Union end with insert (socket) - DIN
4 Valve body material	1	PVC-U, grey
5 Diaphragm material	29	EPDM
6 Control function	0	Manually operated (MO)
7 Actuator version	EDZ	Actuator size EDZ (diaphragm size 20)
8 Special version	N	NSF 61 water approval
9 CONEXO	C	Integrated RFID chip for electronic identification and traceability

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.

Temperature

Media temperature:

Valve body material	
PVC-U, grey	10 — 60 °C
ABS	-10 — 60 °C
PP, reinforced	5 — 80 °C
PVDF	-10 — 80 °C
Inliner PP-H grey / outliner PP, reinforced	5 — 80 °C
Inliner PVDF / outliner PP, reinforced	-10 — 80 °C

Ambient temperature:

Valve body material	
PVC-U, grey	10 — 50 °C
ABS	-10 — 50 °C
PP, reinforced	5 — 50 °C
PVDF	0 — 50 °C
Inliner PP-H grey / outliner PP, reinforced	5 — 50 °C
Inliner PVDF / outliner PP, reinforced	-5 — 50 °C

Pressure

Operating pressure:

MG	DN	EPDM/FKM	PTFE
20	**15**	0 - 10	0 - 10
	20	0 - 10	0 - 10
	25	0 - 10	0 - 10
25	**32**	0 - 10	0 - 10
40	**40**	0 - 10	0 - 10
	50	0 - 10	0 - 10
50	**65**	0 - 10	0 - 10
80	**80**	0 - 10	0 – 6
100	**100**	0 - 10	0 - 6

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.

Pressure rating:

PN 10

Pressure/temperature correlation:

Valve body material		Temperature in °C (valve body)											
Materials	Code	-10	±0	5	10	20	25	30	40	50	60	70	80
PVC-U	**1**	-	-	-	10.0	10.0	10.0	8.0	6.0	3.5	1.5	-	-
ABS	**4**	10.0	10.0	10.0	10.0	10.0	10.0	8.0	6.0	4.0	2.0	-	-
PP	**5**	-	-	10.0	10.0	10.0	10.0	8.5	7.0	5.5	4.0	2.7	1.5
PP-H	**71**	-	-	10.0	10.0	10.0	10.0	8.5	7.0	5.5	4.0	2.7	1.5
PVDF	**20**	10.0	10.0	10.0	10.0	10.0	10.0	9.0	8.0	7.0	6.3	5.4	4.7
PVDF	**75**	10.0	10.0	10.0	10.0	10.0	10.0	9.0	8.0	7.1	6.3	5.4	4.7

The pressure rating (PN) depends on the connection code.
Data for extended temperature ranges on request. Please note that the ambient temperature and media temperature generate a combined temperature at the valve body which must not exceed the above values.

Kv values:

MG	DN	Kv values
20	**15**	6.0
	20	10.0
	25	12.0
25	**32**	20.0
40	**40**	42.0
	50	46.0
50	**65**	70.0
80	**80**	120.0
100	**100**	189.0

MG = diaphragm size, Kv values in m³/h
Kv values determined acc.to DIN EN 60534 standard, inlet pressure 5 bar, Δp 1 bar, PVC-U valve body and soft elastomer diaphragm.
The Kv values for other product configurations (e.g. other diaphragm or body materials) may differ. In general, all diaphragms are subject to the influences of pressure, temperature, the process and their tightening torques. Therefore the Kv values may exceed the tolerance limits of the standard.
The Kv value curve (Kv value dependent on valve stroke) can vary depending on the diaphragm material and duration of use.

Materials

Materials:

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

Mechanical data

Protection class: IP 65 acc. to EN 60529

Weight:

Actuator

MG	Actuator size	Weight
20	**ED**	0.30
20	**EF**	0.35
25	**FD**	0.40
40	**HD**	0.60
65	**KD**	1.00
80	**MD**	3.80
100	**ND**	5.10

MG = diaphragm size, weight in kg

Valve body

MG	DN	Spigot		Union end				Flange
		Connection types code						
		0, 30	20	7, 7R	33	3M, 3T	78	4, 39
20	**15**	0.12	0.10	0.17	0.24	0.26	0.27	0.67
	20	0.13	0.12	0.21	0.28	0.30	0.36	0.84
	25	0.16	0.14	0.26	0.33	0.38	0.37	1.28
25	**32**	0.22	0.18	0.40	0.70	0.73	0.63	1.89
40	**40**	0.50	0.40	0.73	0.83	0.93	1.13	2.36
	50	0.57	0.47	1.00	1.40	1.50	1.60	3.08
50	**65**	0.92	3.57	-	-	-	-	3.20
80	**80**	4.00	3.30	-	-	-	-	6.70
100	**100**	4.40	4.00	-	-	-	-	8.20

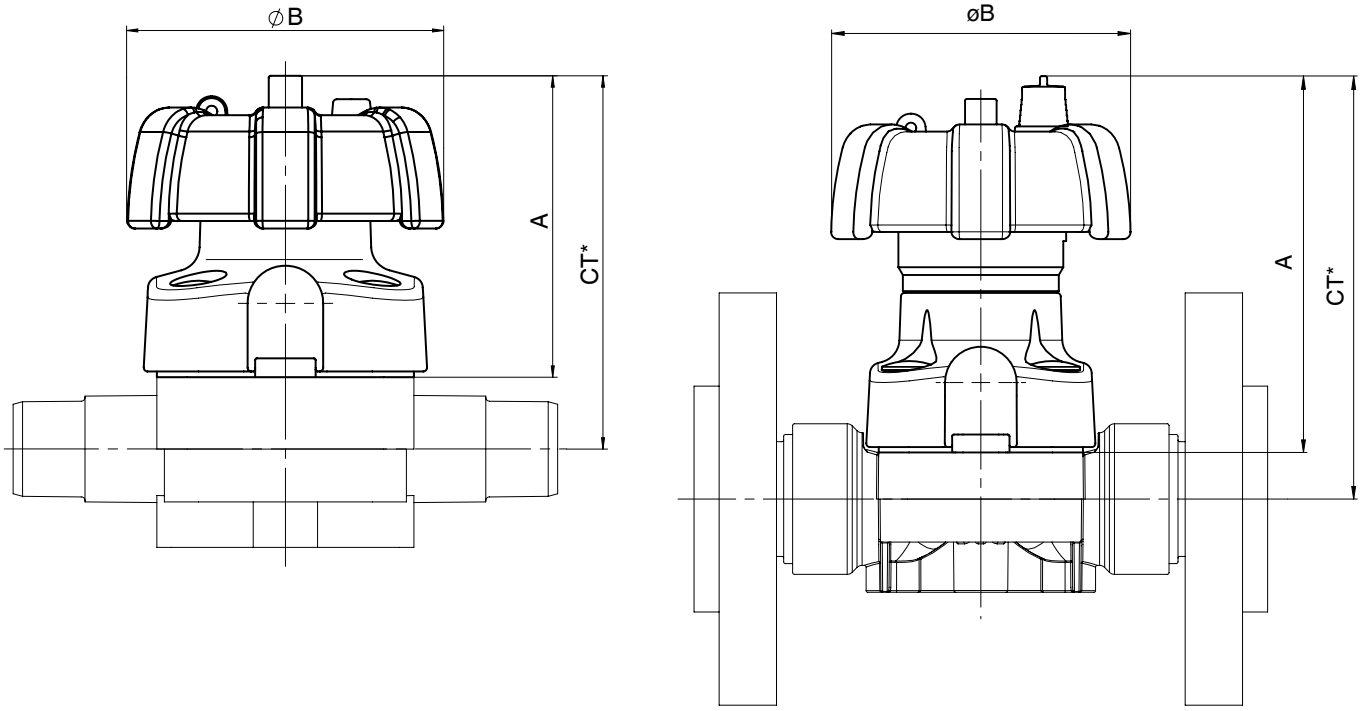
MG = diaphragm size, weight in kg

Installation position: Optional

Flow direction: Optional

Dimensions

Actuator dimensions



Actuator size EF
connection code 4, 39

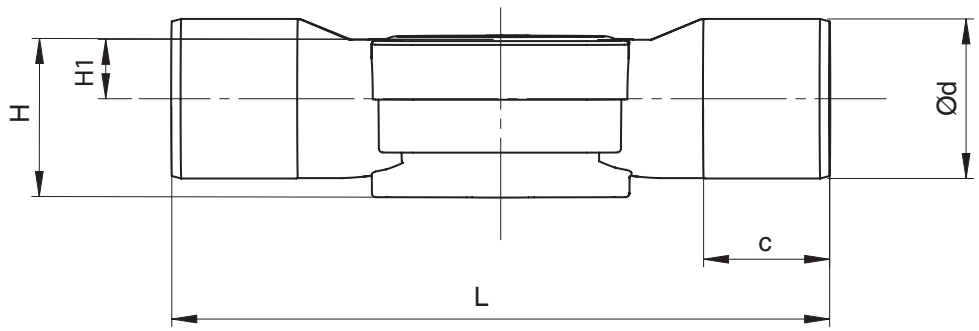
MG	DN	Actuator size	ØB	A	
				Control function 0	Control function L
20	**15 – 25**	**ED**	90.0	75.0	83.0
20	**15 - 25**	**EF**	90.0	99.0	107.0
25	**32**	**FD**	90.0	79.0	87.0
40	**40 - 50**	**HD**	114.0	99.0	101.0
50	**65**	**KD**	140.0	119.0	122.0
80	**80**	**MD**	214.0	167.0	169.0
100	**100**	**ND**	214.0	216.0	211.0

Dimensions in mm, MG = diaphragm size

* only for control function code L
* CT = A + H1 (see body dimensions)

Body dimensions

Spigot DIN / inch (code 0, 30)



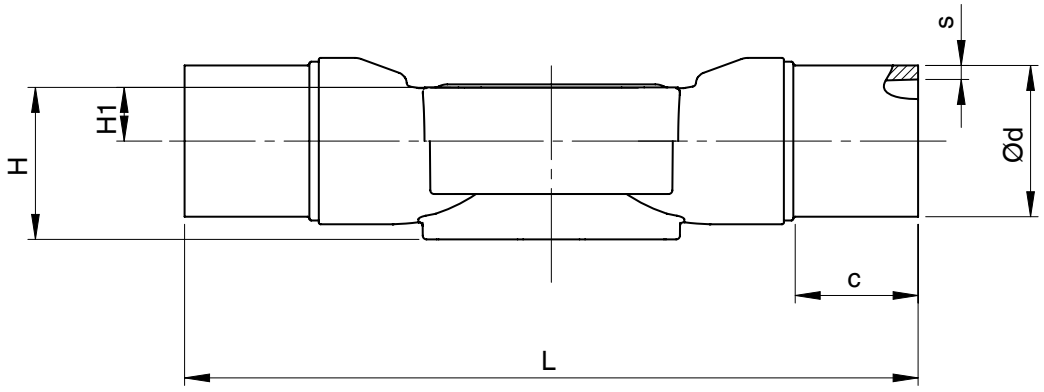
MG	DN	NPS	Connection types code [1]													
			0									30				
			Material code [2]													
				1	5, 20	71, 75			1	5, 20	71, 75	1, 4				
			L	H	H	H	H1	ød	c	c	c	L	H	H1	ød	c
20	**15**	**1/2"**	124.0	36.0	-	36.0	10.0	20.0	16.0	-	18.0	141.0	36.0	10.0	21.4	24.0
	20	**3/4"**	144.0	38.0	-	38.0	12.0	25.0	19.0	-	19.0	144.0	38.0	12.0	26.7	27.0
	25	**1"**	154.0	39.0	-	39.0	13.0	32.0	22.0	-	22.0	154.0	39.0	13.0	33.6	30.0
25	**32**	**1¼"**	174.0	41.0	-	41.0	15.0	40.0	32.0	-	32.0	174.0	41.0	15.0	42.2	33.0
40	**40**	**1½"**	194.0	63.2	-	63.2	23.2	50.0	35.0	-	26.0	194.0	63.2	23.2	48.3	35.0
	50	**2"**	224.0	63.2	-	63.2	23.2	63.0	38.0	-	33.0	224.0	63.2	23.2	60.3	40.0
50	**65**	**2½"**	284.0	78.8	78.8	-	38.8	75.0	46.0	46.0	-	284.0	78.8	38.8	73.0	46.0
80	**80**	**3"**	300.0	117.0	117.0	-	-	90.0	51.0	51.0	-	300.0	117.0	62.0	88.9	51.0
100	**100**	**4"**	340.0	140.0	140.0	-	-	110.0	61.0	61.0	-	340.0	140.0	75.0	114.3	61.0

Dimensions in mm, MG = diaphragm size

1) **Connection type**
Code 0: Spigot DIN
Code 30: Imperial butt weld spigot

2) **Valve body material**
Code 1: PVC-U, grey
Code 4: ABS
Code 5: PP, reinforced
Code 20: PVDF
Code 71: Inliner PP-H, grey, outliner PP, reinforced
Code 75: Inliner PVDF/outliner PP, reinforced

Spigot IR (code 20)



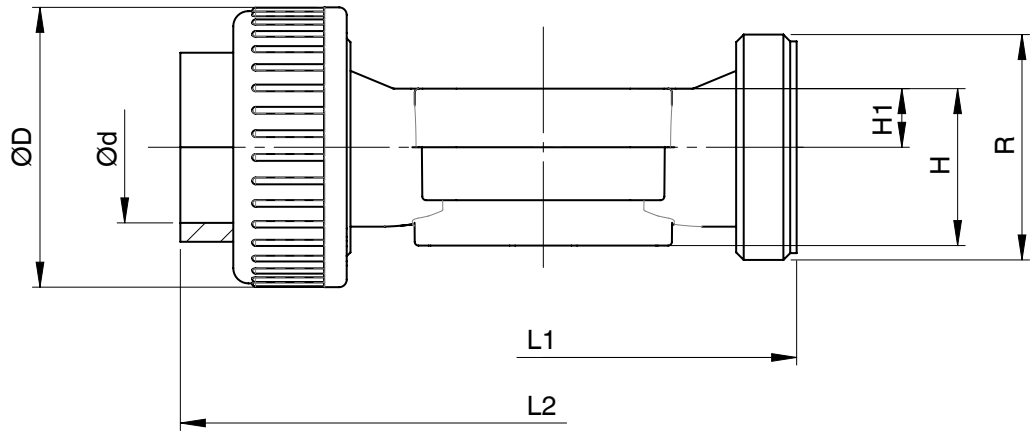
MG	DN	NPS	Connection type code 20 [1]							
			Material code [2]							
								20	71	75
			L	H	H1	ød	c	s	s	s
20	15	1/2"	154.0	36.0	10.0	20.0	33.0	-	1.9	1.9
	20	3/4"	154.0	38.0	12.0	25.0	33.0	-	2.3	1.9
	25	1"	154.0	39.0	13.0	32.0	33.0	-	2.9	2.4
25	32	1¼"	194.0	41.0	15.0	40.0	33.0	-	3.7	2.4
40	40	1½"	194.0	63.2	23.2	50.0	33.0	-	4.6	3.0
	50	2"	224.0	63.2	23.2	63.0	33.0	-	5.8	3.0
50	65	2½"	284.0	78.8	38.8	75.0	43.0	3.6	-	-
80	80	3"	300.0	117.0	62.0	90.0	51.0	4.3	-	-
100	100	4"	340.0	140.0	75.0	110.0	59.0	5.3	-	-

Dimensions in mm, MG = diaphragm size

1) **Connection type**
Code 20: Spigot for IR butt welding

2) **Valve body material**
Code 20: PVDF
Code 71: Inliner PP-H, grey, outliner PP, reinforced
Code 75: Inliner PVDF/outliner PP, reinforced

Union end DIN (code 7)



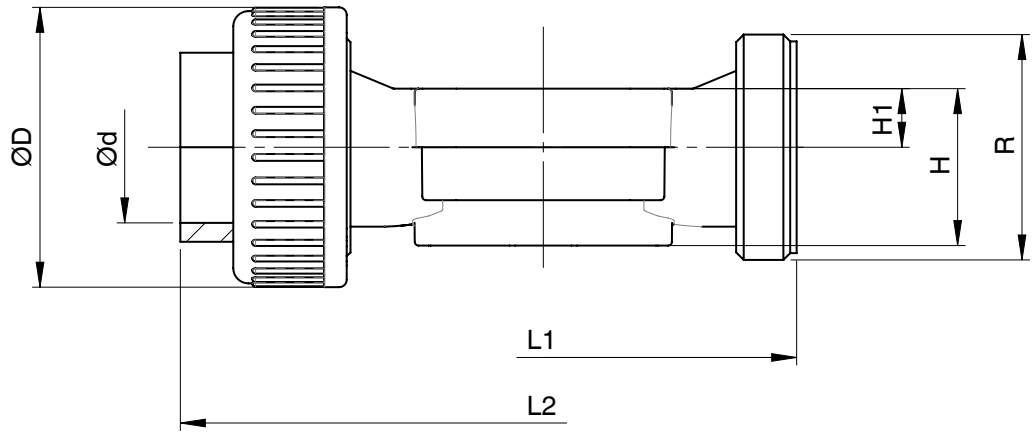
MG	DN	Connection type code 7 [1]										
		Material code [2]							1	4	71	75
		R	NPS	øD	L1	H	H1	ød	L2	L2	L2	L2
20	**15**	G 1	1/2"	43.0	108.0	36.0	10.0	20.0	146.0	150.0	143.0	146.0
	20	G 1¼	3/4"	53.0	108.0	38.0	12.0	25.0	152.0	156.0	146.0	150.0
	25	G 1½	1"	60.0	116.0	39.0	13.0	32.0	166.0	170.0	158.0	162.0
25	**32**	G 2	1¼"	74.0	134.0	41.0	15.0	40.0	192.0	196.0	181.0	184.0
40	**40**	G 2¼	1½"	83.0	154.0	63.2	23.2	50.0	222.0	222.0	207.0	210.0
	50	G 2 3/4	2"	103.0	184.0	63.2	23.2	63.0	266.0	266.0	245.0	248.0

Dimensions in mm, MG = diaphragm size

1) **Connection type**
Code 7: Union end with insert (socket) - DIN

2) **Valve body material**
Code 1: PVC-U, grey
Code 4: ABS
Code 71: Inliner PP-H, grey, outliner PP, reinforced
Code 75: Inliner PVDF/outliner PP, reinforced

Union end inch (code 33, 3M, 3T)



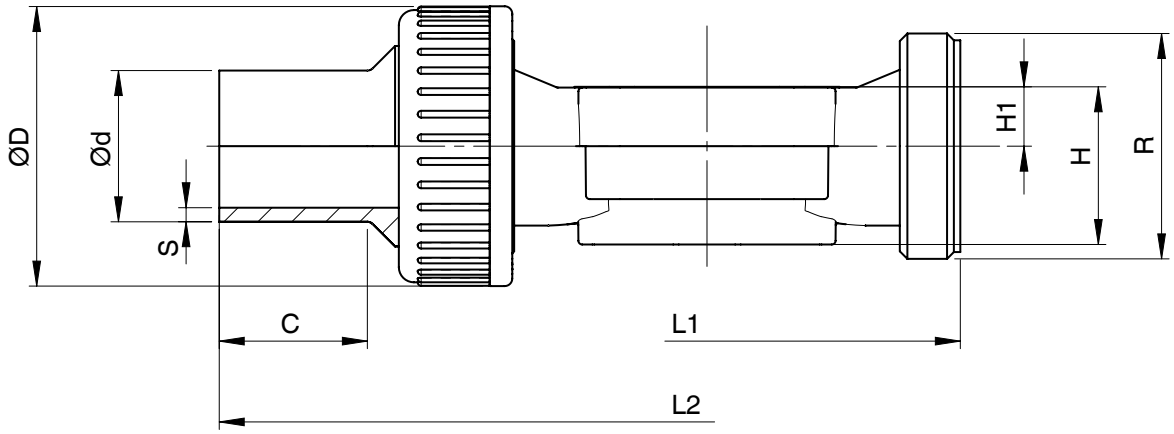
MG	DN	Connection types code [1]												
								33			3M		3T	
		Material code [2]												
								1		4	1		1	
		R	NPS	øD	L1	H	H1	ød	L2	L2	ød	L2	ød	L2
20	**15**	G 1	1/2"	43.0	108.0	36.0	10.0	21.4	146.0	150.0	21.4	158.0	22.0	152.0
	20	G 1¼	3/4"	53.0	108.0	38.0	12.0	26.8	152.0	156.0	26.7	164.0	26.0	152.0
	25	G 1½	1"	60.0	116.0	39.0	13.0	33.6	166.0	170.0	33.5	180.0	32.0	166.0
25	**32**	G 2	1¼"	74.0	134.0	41.0	15.0	42.3	192.0	198.0	42.2	204.0	38.0	192.0
40	**40**	G 2¼	1½"	83.0	154.0	63.2	23.2	48.3	222.0	220.0	48.3	230.0	48.0	222.0
	50	G 2 3/4	2"	103.0	184.0	63.2	23.2	60.4	264.0	264.0	60.4	266.0	60.0	266.0

Dimensions in mm, MG = diaphragm size

1) **Connection type**
Code 33: Union end with inch insert - BS (socket)
Code 3M: Union end with inch insert – ASTM (socket)
Code 3T: Union end with JIS insert (socket)

2) **Valve body material**
Code 1: PVC-U, grey
Code 4: ABS

Union end DIN (code 78)



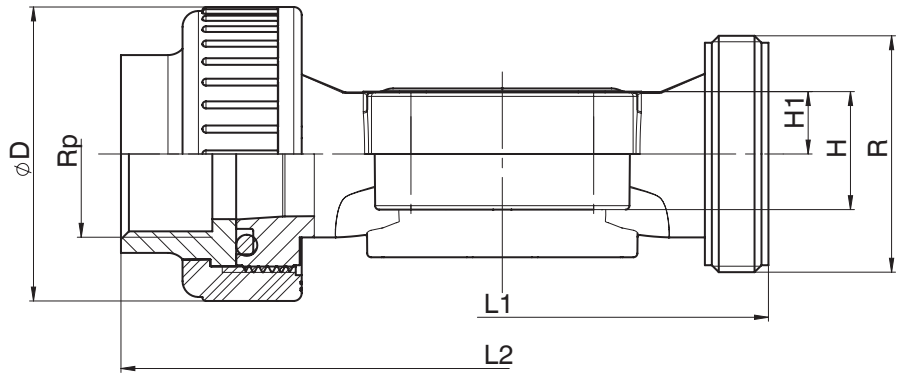
MG	DN	Connection types code 78 [1]										
		Material code [2]										
										71	75	
		R	NPS	øD	L1	H	H1	ød	L2	s	s	c
20	**15**	G 1	1/2"	43.0	108.0	36.0	10.0	20.0	214.0	1.9	1.9	36.0
	20	G 1¼	3/4"	53.0	108.0	38.0	12.0	25.0	220.0	2.3	1.9	37.0
	25	G 1½	1"	60.0	116.0	39.0	13.0	32.0	234.0	2.9	2.4	39.0
25	**32**	G 2	1¼"	74.0	134.0	41.0	15.0	40.0	258.0	3.7	2.4	39.0
40	**40**	G 2¼	1½"	83.0	154.0	63.2	23.2	50.0	284.0	4.6	3.0	43.0
	50	G 2 3/4	2"	103.0	184.0	63.2	23.2	63.0	320.0	5.8	3.0	43.0

Dimensions in mm, MG = diaphragm size

1) **Connection type**
Code 78: Union end with insert (for IR butt welding) - DIN

2) **Valve body material**
Code 71: Inliner PP-H, grey, outliner PP, reinforced
Code 75: Inliner PVDF/outliner PP, reinforced

Union end Rp (code 7R)



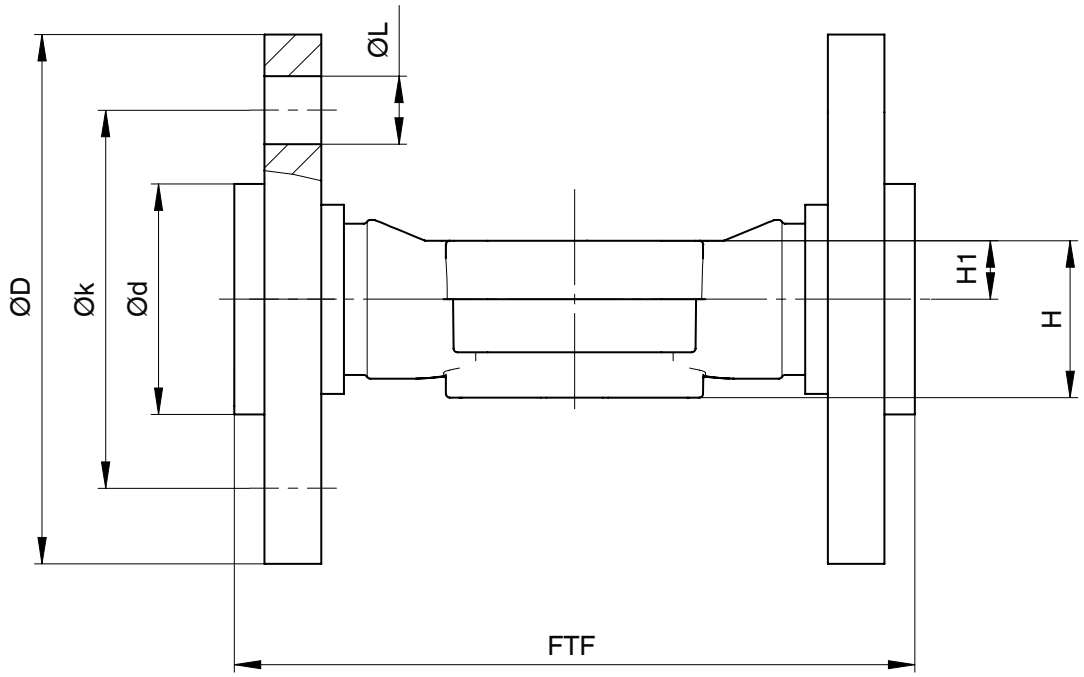
MG	DN	Connection types code 7R [1]							
		Material code 1 [2]							
		R	NPS	øD	L1	H	H1	Rp	L2
20	**15**	G 1	1/2"	43.0	108.0	36.0	10.0	1/2	146.0
	20	G 1¼	3/4"	53.0	108.0	38.0	12.0	3/4	152.0
	25	G 1½	1"	60.0	116.0	39.0	13.0	1	166.0
25	**32**	G 2	1¼"	74.0	134.0	41.0	15.0	1¼	192.0
40	**40**	G 2¼	1½"	83.0	154.0	63.2	23.2	1½	222.0
	50	G 2 3/4	2"	103.0	184.0	63.2	23.2	2	266.0

Dimensions in mm, MG = diaphragm size

1) **Connection type**
Code 7R: Union end with insert (Rp threaded socket) - DIN

2) **Valve body material**
Code 1: PVC-U, grey

Flange EN (code 4)



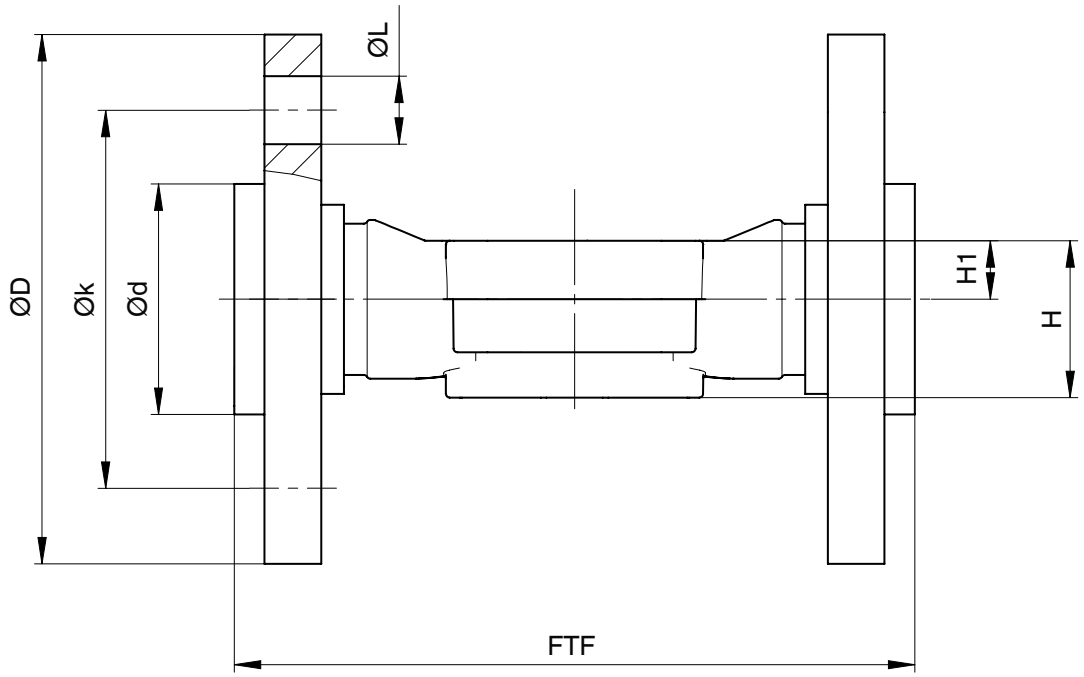
MG	DN	Connection type code 4 [1]														
		Material code [2]														
					1	5, 20	71, 75	1	5, 20	71, 75	1	5, 20	71, 75	1	5, 20	71, 75
		FTF	H	H1	øD	1	2	øL	3	4	ød	5	6	øk	7	8
20	**15**	130.0	36.0	10.0	95.0	-	95.0	14.0	-	14.0	45.0	-	45.0	65.0	-	65.0
	20	150.0	38.0	12.0	105.0	-	105.0	14.0	-	14.0	58.0	-	58.0	75.0	-	75.0
	25	160.0	39.0	13.0	115.0	-	115.0	14.0	-	14.0	68.0	-	68.0	85.0	-	85.0
25	**32**	180.0	41.0	15.0	140.0	-	140.0	18.0	-	18.0	78.0	-	78.0	100.0	-	100.0
40	**40**	200.0	63.2	23.2	150.0	-	150.0	18.0	-	18.0	88.0	-	88.0	110.0	-	110.0
	50	230.0	63.2	23.2	165.0	-	165.0	18.0	-	18.0	102.0	-	102.0	125.0	-	125.0
50	**65**	290.0	78.8	38.8	185.0	185.0	-	18.0	18.0	-	122.0	122.0	-	145.0	145.0	-
80	**80**	310.0	117.0	62.0	200.0	200.0	-	18.0	18.0	-	138.0	138.0	-	160.0	160.0	-
100	**100**	350.0	140.0	75.0	220.0	220.0	-	18.0	18.0	-	158.0	158.0	-	180.0	180.0	-

Dimensions in mm, MG = diaphragm size

1) **Connection type**
Code 4: Flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

2) **Valve body material**
Code 1: PVC-U, grey
Code 5: PP, reinforced
Code 20: PVDF
Code 71: Inliner PP-H, grey, outliner PP, reinforced
Code 75: Inliner PVDF/outliner PP, reinforced

Flange ANSI Class (code 39)



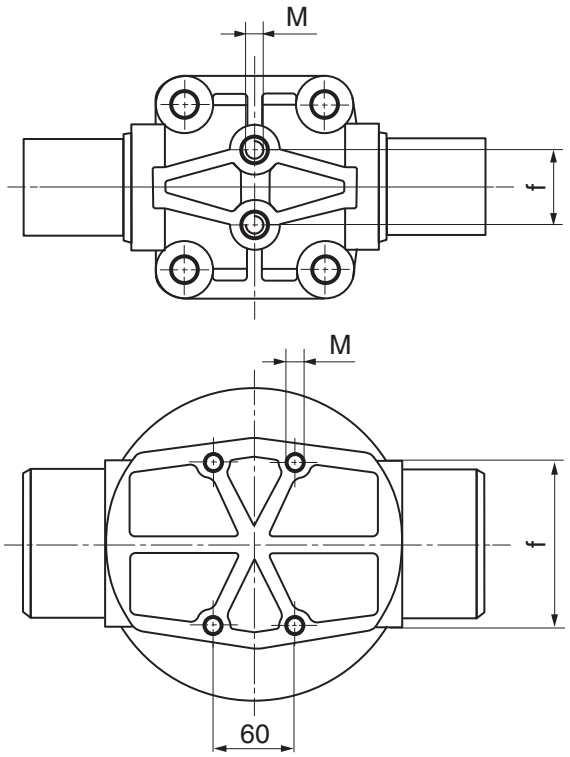
MG	DN	Connection type code 39 [1]														
		Material code [2]														
					1	5, 20	71, 75	1	5, 20	71, 75	1	5, 20	71, 75	1	5, 20	71, 75
		FTF	H	H1	øD	9	10	øL	11	12	ød	13	14	øk	15	16
20	**15**	130.0	36.0	10.0	95.0	-	95.0	16.0	-	16.0	45.0	-	45.0	60.0	-	60.0
	20	150.0	38.0	12.0	105.0	-	105.0	16.0	-	16.0	54.0	-	54.0	70.0	-	70.0
	25	160.0	39.0	13.0	115.0	-	115.0	16.0	-	16.0	63.0	-	63.0	79.0	-	79.0
25	**32**	180.0	41.0	15.0	140.0	-	140.0	16.0	-	16.0	73.0	-	73.0	89.0	-	89.0
40	**40**	200.0	63.2	23.2	150.0	-	150.0	16.0	-	16.0	82.0	-	82.0	98.0	-	98.0
	50	230.0	63.2	23.2	165.0	-	165.0	19.0	-	19.0	102.0	-	102.0	121.0	-	121.0
50	**65**	290.0	78.8	38.8	185.0	185.0	-	19.0	19.0	-	122.0	122.0	-	140.0	140.0	-
80	**80**	310.0	117.0	62.0	200.0	200.0	-	19.0	19.0	-	133.0	133.0	-	152.0	152.0	-
100	**100**	350.0	140.0	75.0	229.0	229.0	-	19.0	19.0	-	158.0	158.0	-	190.0	190.0	-

Dimensions in mm, MG = diaphragm size

1) **Connection type**
Code 39: Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D

2) **Valve body material**
Code 1: PVC-U, grey
Code 5: PP, reinforced
Code 20: PVDF
Code 71: Inliner PP-H, grey, outliner PP, reinforced
Code 75: Inliner PVDF/outliner PP, reinforced

Valve body mounting



MG	DN	M Connection code 0, 4, 7, 7R, 20, 33, 39, 3M, 3T, 78	M Connection code 39	f
20	15 – 25	M6	M6 *	25.0
25	32	M6	M6 *	25.0
40	40 - 50	M8	M8 *	44.5
50	65	M8	M8 *	44.5
80	80	M12	1/2" **	100.0
100	100	M10	3/4" **	120.0

Dimensions in mm, MG = diaphragm size

* Inch thread on request

** Metric thread on request

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