

GEMÜ R647

Pneumatically operated diaphragm valve



Features

- Compact, lightweight construction and high performance
- Simple diaphragm replacement
- Suitable e. g. for dyeing plant, paper industry and automatic feeding installations
- The valve can be used in all applications where a closing spring is not required and where space is at a premium
- Good flow characteristics due to flow optimised valve body

Description

The GEMÜ R647 2/2-way diaphragm valve is a straight through valve and is pneumatically operated. The valve doesn't have a closing spring and is only closed by applying compressed air. A diaphragm is the sealing element. The valve is mainly made of three components, a valve body, a shut off diaphragm and a cover with control medium connector. The control medium applies direct pressure to the shut off diaphragm pressing it against the shut off weir in the valve body. The high-flow valve body provides compact dimensions at high flow rates.

Technical specifications

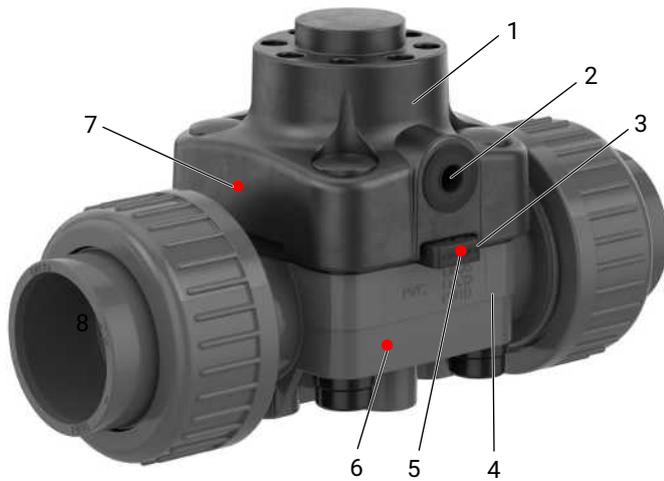
- **Media temperature:** -20 to 80 °C
- **Ambient temperature:** -10 to 50 °C
- **Operating pressure:** 0 to 6 bar
- **Nominal sizes:** DN 15 to 50
- **Body configurations:** 2/2-way body
- **Connection types:** Flange | Spigot | Union end
- **Connection standards:** ANSI | ASTM | BS | DIN | EN | ISO | JIS
- **Body materials:** ABS | PP inliner / outliner | PVC-U | PVDF inliner
- **Diaphragm materials:** EPDM | FKM | NBR
- **Conformities:** EAC | NSF | System 1+

Technical data depends on the respective configuration



Product description

Construction



Item	Name	Materials
1	Actuator	PP-H glass fibre reinforced 30%
2	Control medium connector	
3	Diaphragm	NBR, FKM, EPDM
4	Valve body	PVC-U, grey ABS PP, reinforced PVDF Inliner PP-H, grey/outliner PP, reinforced Inliner PVDF/outliner PP, reinforced
5	CONEXO diaphragm RFID chip (see Conexo information)	
6	CONEXO body RFID chip (see Conexo information)	
7	CONEXO actuator RFID chip (see Conexo information)	

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".

Availability

Availability of valve bodies

Spigot

MG	DN	Connection type code ¹⁾				
		0		20	30	7X
		Material code ²⁾				
		1	71, 75	71, 75	1, 4	1, 4, 71
20	15	X	X	X	X	X
	20	X	X	X	X	X
	25	X	X	X	X	X
25	32	X	X	X	X	X
40	40	X	X	X	X	X
	50	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: Spigot – inch, for welding or solvent cementing, depending on the body material

Code 7X: Body with threaded spigots for unions

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

MG	DN	Connection type code ¹⁾																
		07						7				7R, 3P	33		3M	3T	78	
		Material code ²⁾																
		1	4	5	20	71	75	1	4	71	75	1	1	4	1	1	71	75
20	15	X	X	-	-	X	X	X	X	X	X	X	X	X	X	-	X	X
	20	X	X	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X
	25	X	X	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X
25	32	X	X	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X
40	40	X	X	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X
	50	X	X	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X

MG = diaphragm size, X = standard

1) Connection type

Code 07: Spigot body with GEMÜ 1035 union end, DIN insert (socket)

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 3P: Union end with NPT threaded socket insert

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 5: PP, reinforced

Code 20: PVDF

Code 71: Inliner PP-H, grey, outliner PP, reinforced

Code 75: Inliner PVDF/outliner PP, reinforced

Flange

MG	DN	Connection type code ¹⁾					
		4			39		
		Material code ²⁾					
		1	71	75	1	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

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 71: Inliner PP-H, grey, outliner PP, reinforced

Code 75: Inliner PVDF/outliner PP, reinforced

Availability of NSF product conformity (special function code N)

MG	DN	Connection type code ¹⁾									Material code	Diaphragm material code
		0	4	7	7R	30	33	39	3M	3T		
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

MG = diaphragm size

1) **Anschlussart**

Code 0: Stutzen DIN

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

Code 7: Union end with insert (socket) – DIN

Code 30: Spigot – inch, for welding or solvent cementing, depending on the body material

Code 33: Union end with inch insert – BS (socket)

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

Code 3M: Union end with inch insert – ASTM (socket)

Code 3T: Union end with JIS insert (socket)

Code 7R: Union end with insert (Rp threaded socket) – DIN

Availability of product conformity – drinking water hygiene suitability according to system 1+ (special function 1)

MG	DN	Connection type code ¹⁾				Material code	Diaphragm material code
		0	30	7	33		
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

MG = diaphragm size

1) **Connection type**

Code 0: Spigot DIN

Code 7: Union end with insert (socket) – DIN

Code 30: Spigot – inch, for welding or solvent cementing, depending on the body material

Code 33: Union end with inch insert – BS (socket)

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, pneumatically operated, plastic actuator	R647

2 DN	Code
DN 15	15
DN 20	20
DN 25	25
DN 32	32
DN 40	40
DN 50	50

3 Body configuration	Code
2/2-way body	D

4 Connection type	Code
Spigot	
Spigot DIN	0
Spigot for IR butt welding	20
Spigot – inch, for welding or solvent cementing, depending on the body material	30
Body with threaded spigots for unions	7X
Union end	
Union end with insert (socket) – DIN	7
Spigot body with GEMÜ 1035 union end, DIN insert (socket)	07
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 NPT threaded socket insert	3P
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
Elastomer	
NBR	2
FKM	4
EPDM	17
EPDM	29

7 Control function	Code
Closed by control pressure, opened by operating pressure	5

8 Actuator version	Code
Actuator size ED (diaphragm size 20)	ED
Actuator size FD (diaphragm size 25)	FD
Actuator size HD (diaphragm size 40)	HD

9 Special version	Code
NSF 61 water approval	N
Drinking water hygiene suitability according to system 1+, UBA-BWGL for plastics and other organic materials, Cold and hot water (23 °C–60 °C)	1

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

Order example

Ordering option	Code	Description
1 Type	R647	Diaphragm valve, pneumatically operated, plastic actuator
2 DN	25	DN 25
3 Body configuration	D	2/2-way body
4 Connection type	7	Union end with insert (socket) – DIN
5 Valve body material	1	PVC-U, grey
6 Diaphragm material	17	EPDM
7 Control function	5	Closed by control pressure, opened by operating pressure
8 Actuator version	ED	Actuator size ED (diaphragm size 20)
9 Special version	N	NSF 61 water approval
10 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 body and diaphragm material.

Control medium: Inert gases

Temperature

Media temperature:

Valve body material	
PVC-U, grey (code 1)	10 – 60 °C
ABS (code 4)	-10 – 60 °C
Inliner PP-H grey / outliner PP, reinforced (code 71)	5 – 80 °C
Inliner PVDF / outliner PP, reinforced (code 75)	-10 – 80 °C

Ambient temperature:

Valve body material	
PVC-U, grey (code 1)	10 – 50 °C
ABS (code 4)	-10 – 50 °C
Inliner PP-H grey / outliner PP, reinforced (code 71)	5 – 50 °C
Inliner PVDF / outliner PP, reinforced (code 75)	-5 – 50 °C

Storage temperature: 0 – 40 °C

Control medium temperature: max. 40 °C

Pressure

Operating pressure: 0 – 6 bar

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.

The operating pressures apply at room temperature. In case of deviating temperatures, observe the pressure / temperature correlation.

The permissible operating pressure depends on the working medium temperature.

Observe control pressure / operating pressure diagram

Control pressure: max. 10 bar

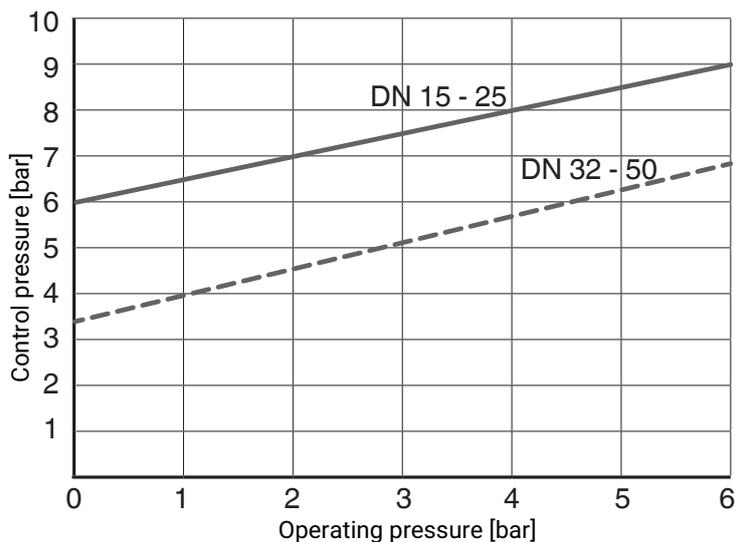
Pressure/temperature correlation:

Valve body material		Temperatures in °C (valve body)										
Materials	Code	-10	0	5	10	20	30	40	50	60	70	80
PVC-U	1	-	-	-	6.0	6.0	6.0	6.0	3.5	1.5	-	-
ABS	4	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.0	2.0	-	-
PP-H	71	-	-	6.0	6.0	6.0	6.0	6.0	5.5	4.0	2.7	1.5
PVDF	75	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.4	4.7

The pressure rating (PN) depends on the diaphragm size.

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.

Control pressure/operating pressure diagram:



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

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 term of use.

Filling volume:

MG	Actuator size	Filling volume [dm ³]
20	ED	0.27
25	FD	0.69
40	HD	1.42

Product conformity

Pressure Equipment Directive: 2014/68/EU

EAC: TR CU 010/2011

Drinking water: NSF/ANSI*

* depending on version and/or operating parameters

Drinking water hygiene suitability according to system 1+ (special function 1)

UBA-BWGL for plastics and other organic materials,

Cold and hot water (23 °C–60 °C)

System 1+

Materials

Materials:

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

Mechanical data

Weight:

Actuator

MG	Actuator size	Weight
20	ED	0.30
25	FD	0.40
40	HD	0.60

MG = diaphragm size, weight in kg

Valve body

MG	DN	Spigot		Union end				Flange	
		Connection type code							
		0, 30	20	3P, 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	

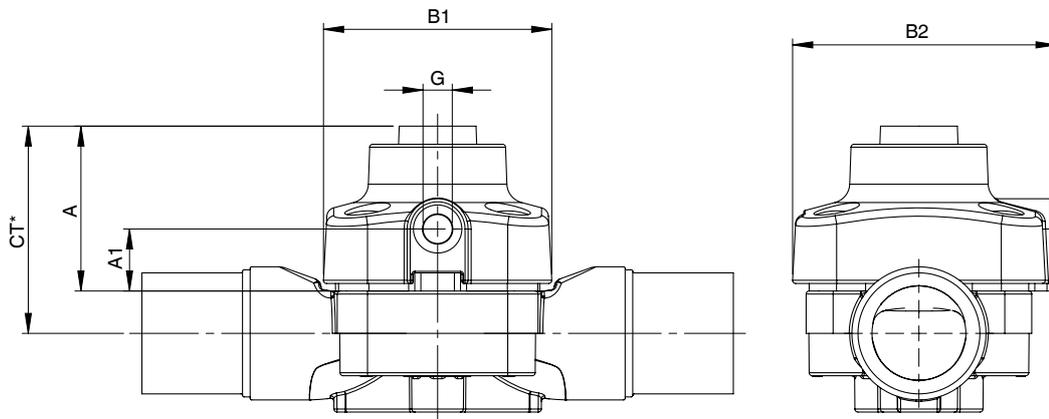
MG = diaphragm size, weight in kg

Installation position: Optional

Flow direction: Optional

Dimensions

Actuator dimensions



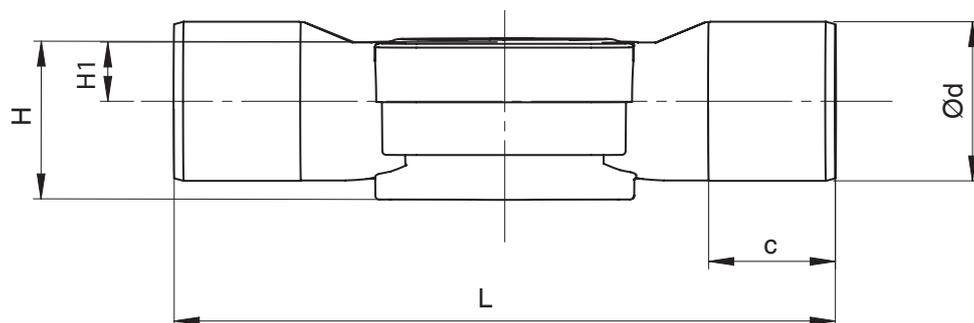
MG	DN	A	A1	B1	B2	G
20	15, 20, 25	50.0	19.0	64.0	69.5	G 1/4
25	32	54.0	20.0	75.0	85.0	G 1/4
40	40, 50	67.0	24.0	100.0	108.0	G 1/4

Dimensions in mm

* CT = A + H1 (see body dimensions)

Body dimensions

Spigot DIN / inch (code 0, 30)



Connection type spigot DIN (code 0)¹⁾, body material PVC-U (code 1), inliner/outliner (code 71, 75)²⁾

MG	DN	NPS	c		ød	H		H1	L
			Material			Material			
			1	71, 75		1	71, 75		
20	15	1/2"	16.0	18.0	20.0	36.0	36.0	10.0	124.0
	20	3/4"	19.0	19.0	25.0	38.0	38.0	12.0	144.0
	25	1"	22.0	22.0	32.0	39.0	39.0	13.0	154.0
25	32	1 1/4"	32.0	32.0	40.0	41.0	41.0	15.0	174.0
40	40	1 1/2"	35.0	26.0	50.0	63.2	63.2	23.2	194.0
	50	2"	38.0	33.0	63.0	63.2	63.2	23.2	224.0

Connection type spigot – inch (code 30)¹⁾, body material PVC-U (code 1), ABS (code 4)²⁾

MG	DN	NPS	c	ød	H	H1	L
20	15	1/2"	24.0	21.4	36.0	10.0	141.0
	20	3/4"	27.0	26.7	38.0	12.0	144.0
	25	1"	30.0	33.6	39.0	13.0	154.0
25	32	1 1/4"	33.0	42.2	41.0	15.0	174.0
40	40	1 1/2"	35.0	48.3	63.2	23.2	194.0
	50	2"	40.0	60.3	63.2	23.2	224.0

Dimensions in mm

MG = diaphragm size

1) Connection type

Code 0: Spigot DIN

Code 30: Spigot – inch, for welding or solvent cementing, depending on the body material

2) Valve body material

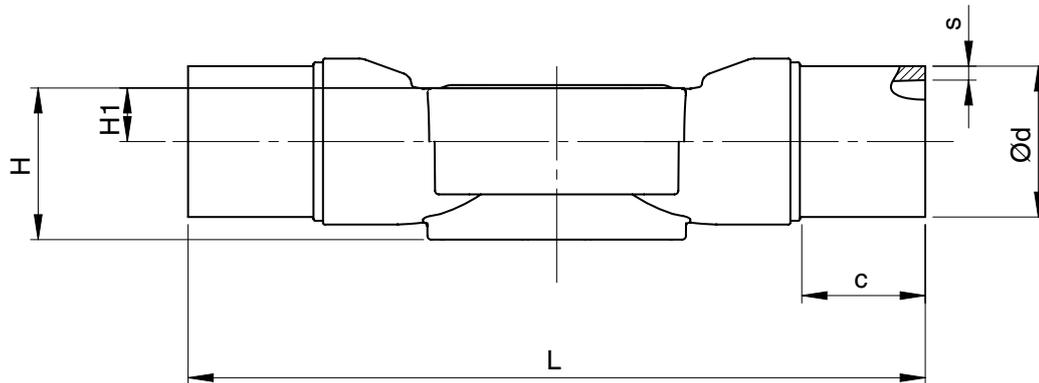
Code 1: PVC-U, grey

Code 4: ABS

Code 71: Inliner PP-H, grey, outliner PP, reinforced

Code 75: Inliner PVDF/outliner PP, reinforced

Spigot IR (code 20)



Connection type spigot IR (code 20)¹⁾, body material inliner/outliner (code 71, 75)²⁾

MG	DN	NPS	c	ød	H	H1	L	s	
								Material	
								71	75
20	15	1/2"	33.0	20.0	36.0	10.0	154.0	1.9	1.9
	20	3/4"	33.0	25.0	38.0	12.0	154.0	2.3	1.9
	25	1"	33.0	32.0	39.0	13.0	154.0	2.9	2.4
25	32	1¼"	33.0	40.0	41.0	15.0	194.0	3.7	2.4
40	40	1½"	33.0	50.0	63.2	23.2	194.0	4.6	3.0
	50	2"	33.0	63.0	63.2	23.2	224.0	5.8	3.0

Dimensions in mm

MG = diaphragm size

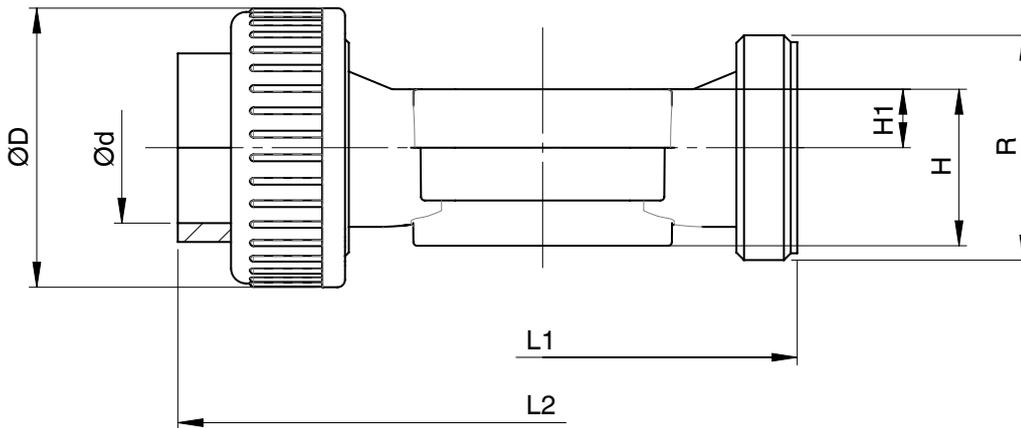
1) **Connection type**

Code 20: Spigot for IR butt welding

2) **Valve body material**

Code 71: Inliner PP-H, grey, outliner PP, reinforced

Code 75: Inliner PVDF/outliner PP, reinforced

Union end DIN (code 7)

Connection type union end (code 7)¹⁾, body material PVC-U (code 1), ABS (code 4), inliner/outliner (code 71, 75)²⁾, diaphragm sizes 20 – 40

MG	DN	NPS	ød	øD	H	H1	L1	L2				R
								Material				
								1	4	71	75	
20	15	1/2"	20.0	43.0	36.0	10.0	108.0	146.0	150.0	143.0	146.0	G 1
	20	3/4"	25.0	53.0	38.0	12.0	108.0	152.0	156.0	146.0	150.0	G 1¼
	25	1"	32.0	60.0	39.0	13.0	116.0	166.0	170.0	158.0	162.0	G 1½
25	32	1¼"	40.0	74.0	41.0	15.0	134.0	192.0	196.0	181.0	184.0	G 2
40	40	1½"	50.0	83.0	63.2	23.2	154.0	222.0	222.0	207.0	210.0	G 2¼
	50	2"	63.0	103.0	63.2	23.2	184.0	266.0	266.0	245.0	248.0	G 2¾

Dimensions in mm

MG = diaphragm size

1) **Connection type**

Code 7: Union end with insert (socket) – DIN

2) **Valve body material**

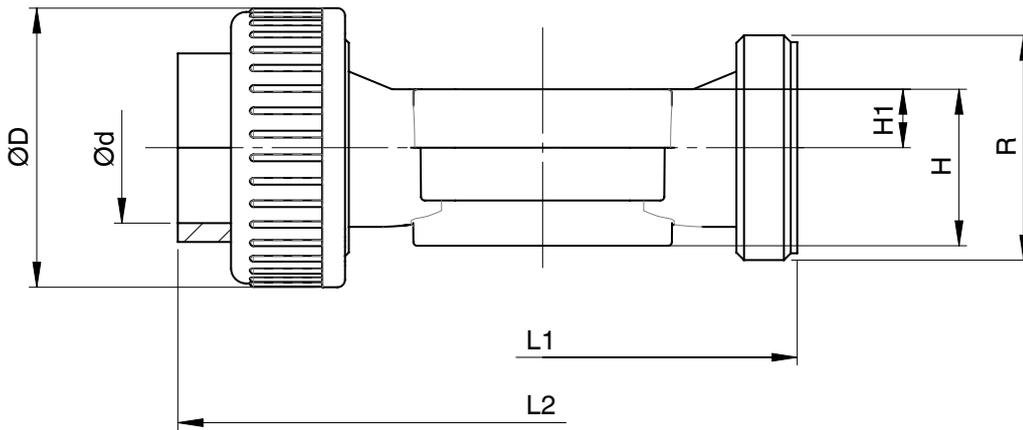
Code 1: PVC-U, grey

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)



Connection type union end inch (code 33, 3M, 3T)¹⁾, body material PVC-U (code 1)²⁾, diaphragm sizes 20 - 40

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

Connection type BS (code 33)¹⁾, body material ABS (code 4)²⁾

MG	DN	NPS	ød	øD	H	H1	L1	L2	R
20	15	1/2"	21.4	43.0	36.0	10.0	108.0	150.0	G 1
	20	3/4"	26.8	53.0	38.0	12.0	108.0	156.0	G 1 1/4
	25	1"	33.6	60.0	39.0	13.0	116.0	170.0	G 1 1/2
25	32	1 1/4"	42.3	74.0	41.0	15.0	134.0	198.0	G 2
40	40	1 1/2"	48.3	83.0	63.2	23.2	154.0	220.0	G 2 1/4
	50	2"	60.4	103.0	63.2	23.2	184.0	264.0	G 2 3/4

Dimensions in mm

MG = diaphragm size

* Insert requires valve body DN 20

1) **Connection type**

Code 33: Union end with inch insert – BS (socket)

Code 3M: Union end with inch insert – ASTM (socket)

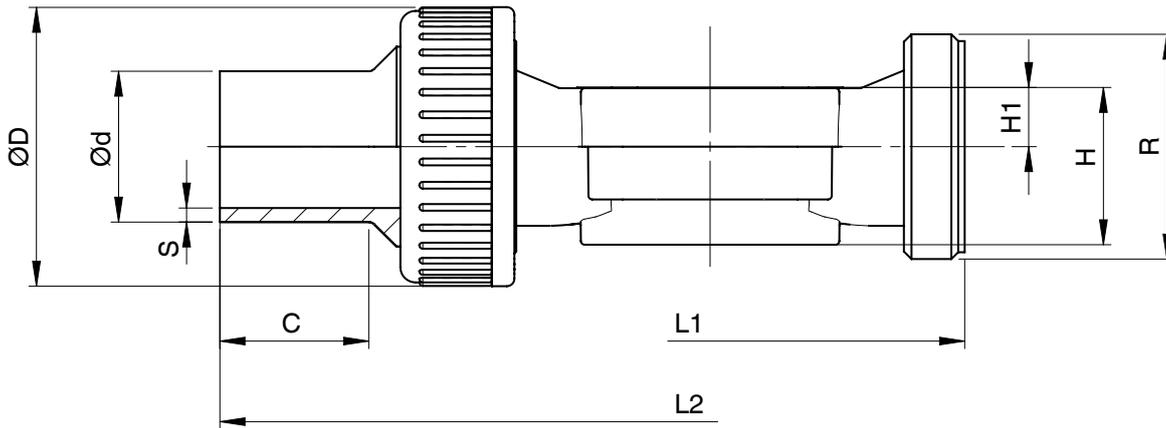
Code 3T: Union end with JIS insert (socket)

2) **Valve body material**

Code 1: PVC-U, grey

Code 4: ABS

Union end DIN (code 78)



Connection type union end DIN, IR butt welding (code 78)¹⁾, body materials inliner/outliner (code 71, 75)²⁾

MG	DN	NPS	c	ød	øD	H	H1	L1	L2	R	s	
											Material	
											71	75
20	15	1/2"	36.0	20.0	43.0	36.0	10.0	108.0	214.0	G 1	1.9	1.9
	20	3/4"	37.0	25.0	53.0	38.0	12.0	108.0	220.0	G 1¼	2.3	1.9
	25	1"	39.0	32.0	60.0	39.0	13.0	116.0	234.0	G 1½	2.9	2.4
25	32	1¼"	39.0	40.0	74.0	41.0	15.0	134.0	258.0	G 2	3.7	2.4
40	40	1½"	43.0	50.0	83.0	63.2	23.2	154.0	284.0	G 2¼	4.6	3.0
	50	2"	43.0	63.0	103.0	63.2	23.2	184.0	320.0	G 2¾	5.8	3.0

Dimensions in mm

MG = diaphragm size

1) **Connection type**

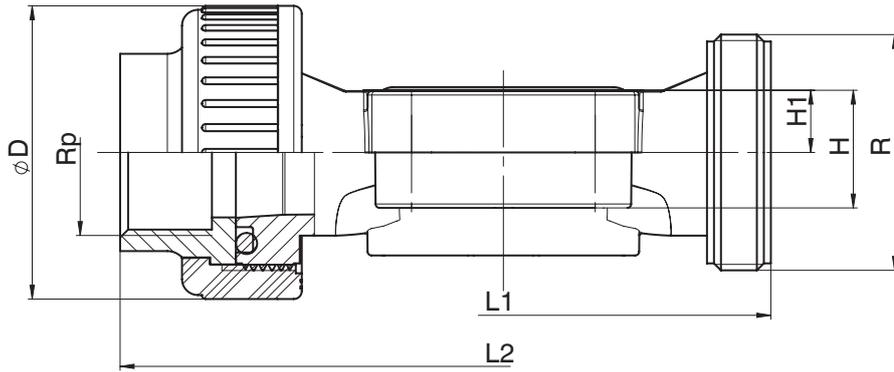
Code 78: Union end with insert (for IR butt welding) – DIN

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), NPT (code 3P)



Connection type union end Rp (code 7R), NPT (code 3P)¹⁾, body material PVC-U (code 1)²⁾

MG	DN	NPS	øD	H	H1	L1	L2	R	Rp/NPT
20	15	1/2"	43.0	36.0	10.0	108.0	146.0	G 1	1/2
	20	3/4"	53.0	38.0	12.0	108.0	152.0	G 1¼	3/4
	25	1"	60.0	39.0	13.0	116.0	166.0	G 1½	1
25	32	1¼"	74.0	41.0	15.0	134.0	192.0	G 2	1¼
40	40	1½"	83.0	63.2	23.2	154.0	222.0	G 2¼	1½
	50	2"	103.0	63.2	23.2	184.0	266.0	G 2¾	2

Dimensions in mm

MG = diaphragm size

1) Connection type

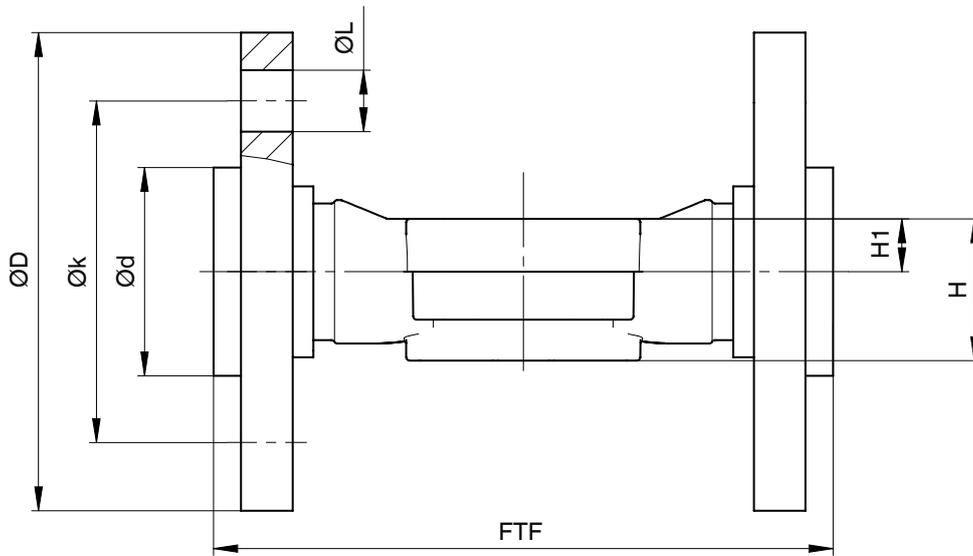
Code 7R: Union end with insert (Rp threaded socket) – DIN

Code 3P: Union end with NPT threaded socket insert

2) Valve body material

Code 1: PVC-U, grey

Flange EN (code 4)



Connection type flange EN (code 4)¹⁾, body material inliner/outliner (code 71, 75)²⁾

MG	DN	NPS	$\varnothing d$	$\varnothing D$	FTF	H	H1	$\varnothing k$	$\varnothing L$	n
20	15	1/2"	45.0	95.0	130.0	36.0	10.0	65.0	14.0	4
	20	3/4"	58.0	105.0	150.0	38.0	12.0	75.0	14.0	4
	25	1"	68.0	115.0	160.0	39.0	13.0	85.0	14.0	4
25	32	1 1/4"	78.0	140.0	180.0	41.0	15.0	100.0	18.0	4
40	40	1 1/2"	88.0	150.0	200.0	63.2	23.2	110.0	18.0	4
	50	2"	102.0	165.0	230.0	63.2	23.2	125.0	18.0	4

Dimensions in mm

MG = diaphragm size

n = number of bolts

1) Connection type

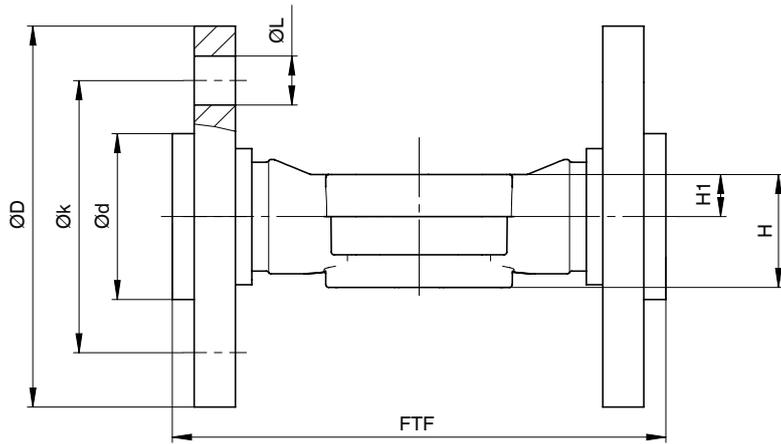
Code 4: Flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

2) Valve body material

Code 71: Inliner PP-H, grey, outliner PP, reinforced

Code 75: Inliner PVDF/outliner PP, reinforced

Dimensions



Connection type flange EN (code 4)¹⁾, body materials PVC-U (code 1)²⁾

MG	DN	NPS	ød	øD	FTF	H	H1	øk	øL	n
20	15	1/2"	34.0	95.0	130.0	36.0	10.0	65.0	14.0	4
	20	3/4"	41.0	105.0	150.0	38.0	12.0	75.0	14.0	4
	25	1"	50.0	115.0	160.0	39.0	13.0	85.0	14.0	4
25	32	1¼"	61.0	140.0	180.0	41.0	15.0	100.0	18.0	4
40	40	1½"	73.0	150.0	200.0	63.2	23.2	110.0	18.0	4
	50	2"	90.0	165.0	230.0	63.2	23.2	125.0	18.0	4

Dimensions in mm

MG = diaphragm size

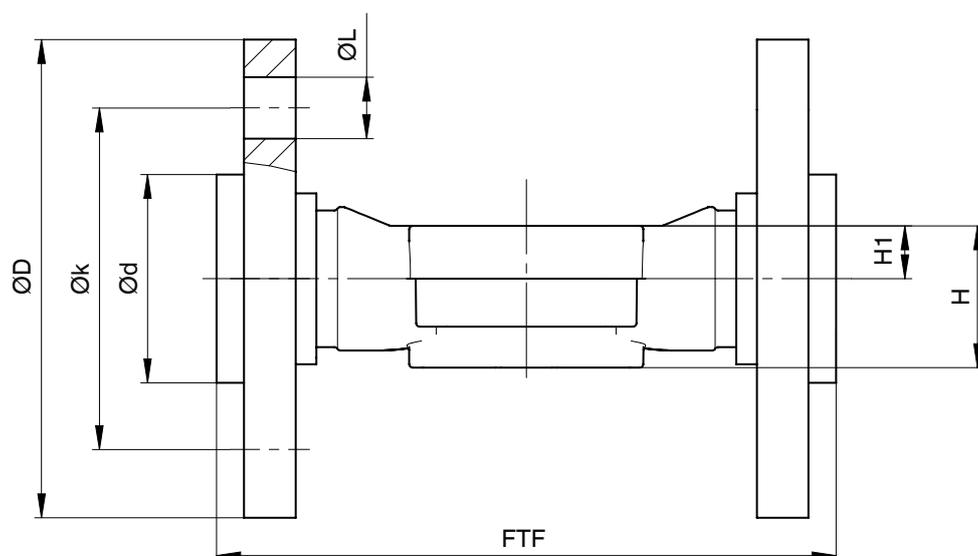
n = number of bolts

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

Flange ANSI Class (code 39)**Connection type flange ANSI (code 39)¹⁾, body material PVC-U (code 1)²⁾**

MG	DN	NPS	ød	øD	FTF	H	H1	øk	øL	n
20	15	1/2"	34.0	95.0	130.0	36.0	10.0	60.0	16.0	4
	20	3/4"	41.0	105.0	150.0	38.0	12.0	70.0	16.0	4
	25	1"	50.0	115.0	160.0	39.0	13.0	79.0	16.0	4
25	32	1¼"	61.0	140.0	180.0	41.0	15.0	89.0	16.0	4
40	40	1½"	73.0	150.0	200.0	63.2	23.2	98.0	16.0	4
	50	2"	90.0	165.0	230.0	63.2	23.2	121.0	19.0	4

Dimensions in mm

MG = diaphragm size

n = number of bolts

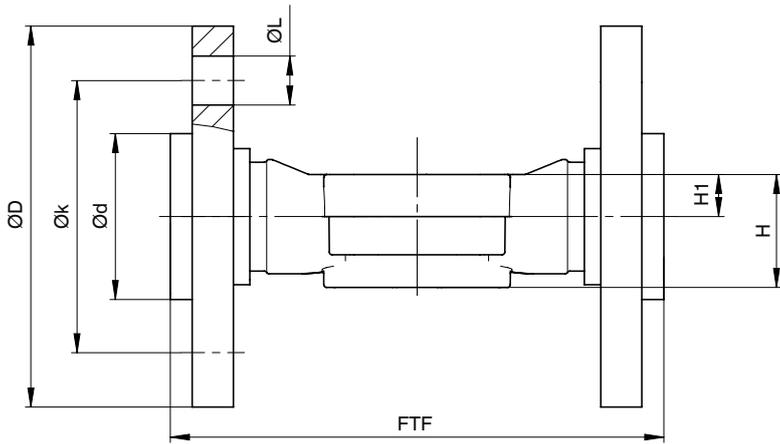
1) Connection type

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

Dimensions



Connection type flange ANSI (code 39)¹⁾, inliner/outliner body material (code 71, 75)²⁾

MG	DN	NPS	ød	øD	FTF	H	H1	øk	øL	n
20	15	1/2"	45.0	95.0	130.0	36.0	10.0	60.0	16.0	4
	20	3/4"	54.0	105.0	150.0	38.0	12.0	70.0	16.0	4
	25	1"	63.0	115.0	160.0	39.0	13.0	79.0	16.0	4
25	32	1 1/4"	73.0	140.0	180.0	41.0	15.0	89.0	16.0	4
40	40	1 1/2"	82.0	150.0	200.0	63.2	23.2	98.0	16.0	4
	50	2"	102.0	165.0	230.0	63.2	23.2	121.0	19.0	4

Dimensions in mm

MG = diaphragm size

n = number of bolts

1) Connection type

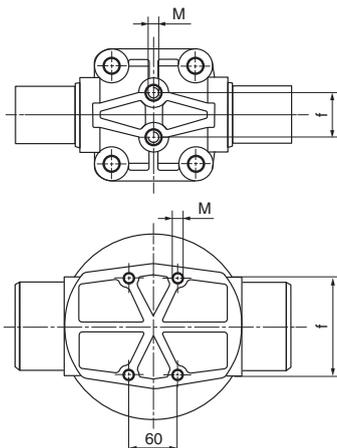
Code 39: Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D

2) Valve body material

Code 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 30	f
20	15 – 25	M6	M6 *	25.0
25	32	M6	M6 *	25.0

MG	DN	M Connection code 0, 4, 7, 7R, 20, 33, 39, 3M, 3T, 78	M Connection code 30	f
40	40 - 50	M8	M8 *	44.5

Dimensions in mm, MG = diaphragm size

* Inch thread on request



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