

# **GEMÜ R649 eSyDrive**

## *Motorized diaphragm valve*



### **Features**

- Hermetic separation between medium and actuator
- Installation for optimized draining is possible
- Open/Close function, positioner and process controller
- Force and speed are variably adjustable
- Extensive diagnostic functions
- Operable via web interface eSy-Web or Modbus TCP
- Various functions of add-on components and accessories are already integrated (e.g. position indicators, stroke limiters, etc.)

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### **Description**

The GEMÜ R649 diaphragm valve is actuated by a motorized hollow shaft actuator. It is based on technology that does not use brushes or sensors and therefore guarantees high performance and a long service life. In addition to Open/Close applications, the valve is ideal for variable and complex control applications. The actuator has an integrated web server for parameterization and diagnostics purposes.

### **Technical specifications**

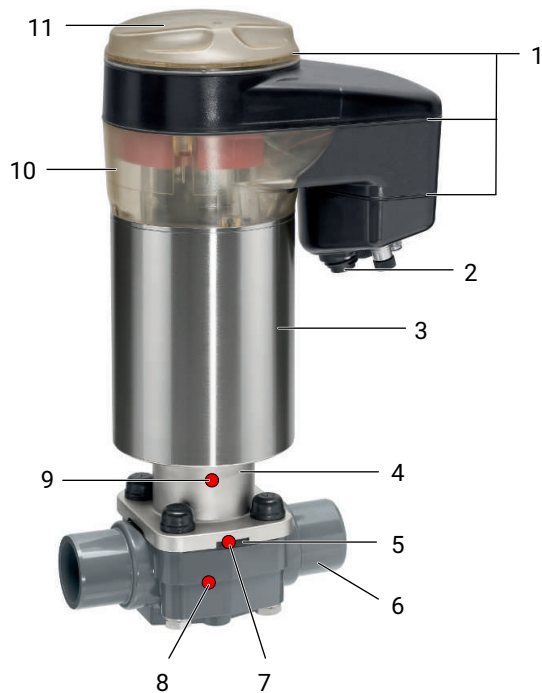
- **Media temperature:** 14 to 176 °F
- **Ambient temperature:** 14 to 122 °F
- **Operating pressure:** 0 to 150 psi
- **Nominal sizes:** 1/2 (DN 12) to 2 1/2 (DN 65)
- **Body configurations:** 2/2-way body
- **Connection standards:** ANSI | BS | DIN | EN | ISO | JIS
- **Body materials:** ABS | Inliner PP-H, grey / outliner PP, reinforced | Inliner PVDF/outliner PP, reinforced | PP, reinforced | PP-H, natural | PVC-U | PVDF
- **Diaphragm materials:** EPDM | FKM | NBR | PTFE/EPDM
- **Supply voltage:** 24 V DC
- **Actuating speed:** max. 6 mm/s
- **Protection class:** IP 65
- **Conformities:** EAC | FDA | NSF

Technical data depends on the respective configuration



## Product description

### Construction



Item	Name	Materials
1	O-rings	EPDM
2	Electrical connections	
3	Actuator top	1.4301
4	Distance piece with leak detection hole	1.4008
5	Diaphragm	EPDM, FKM, NBR, PTFE/EPDM
6	Valve body	PVC-U grey, ABS, PP reinforced, PVDF, inliner PP-H, grey outliner PP reinforced, inliner PVDF/outliner PP, reinforced
7	Optical position indicator	PESU
8	Cover with high visibility LED, manual override and on-site control	PESU
9	CONEXO RFID chip	

## GEMÜ CONEXO

The interaction between valve components equipped with RFID chips and the corresponding IT infrastructure actively increases process reliability.



Thanks to serialization, every valve and every relevant valve component, such as the body, actuator, diaphragm or even automation components, can be clearly traced and read at any time using the RFID reader – the CONEXO pen. The CONEXO app, which can be installed on mobile devices, not only facilitates and improves the "installation qualification" process, but also makes the servicing 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](http://www.gemu-group.com/conexo)

## Availability

### Availability of valve bodies

#### Spigot

MG	DN	Connection type code <sup>1)</sup>							
		0			20		28	30	7X
		Material code <sup>2)</sup>							
		1	5, 20	71, 75	20	71, 75	20	1, 4	1, 4, 71, 75
10	15	-	-	-	-	-	X	-	X
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
50	65	X	X	-	X	-	-	X	-

MG = diaphragm size, X = standard

#### 1) Connection type

Code 0: Spigot DIN

Code 20: Spigot for IR butt welding

Code 28: Spigot for IR butt welding, BCF

Code 30: Spigot - inch, for welding or solvent cementing, dependent on body material

Code 7X: Body with threaded spigots for unions

#### 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 type code <sup>1)</sup>																	
		7							7R	33			3M	3T	78				
		Material code <sup>2)</sup>																	
		1	4	5	20	N5	71	75	1	1	4	1	1	5	20	N5	71	75	
10	15	X	-	X	X	X	-	-	-	X	-	-	-	X	X	X	-	-	
20	15	X	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, 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 5: PP, reinforced
- Code 20: PVDF
- Code 71: Inliner PP-H, grey, outliner PP, reinforced
- Code 75: Inliner PVDF/outliner PP, reinforced
- Code N5: PP-H, natural

**Threaded socket**

MG	DN	Connection type code 1 <sup>1)</sup>
		Material code 1, 5, 20 <sup>2)</sup>
10	12	X

MG = diaphragm size

1) **Connection type**

- Code 1: Threaded socket DIN ISO 228

2) **Valve body material**

- Code 1: PVC-U, grey
- Code 5: PP, reinforced
- Code 20: PVDF

**Solvent cement socket**

MG	DN	Connection type code 2 <sup>1)</sup>
		Material code 1 <sup>2)</sup>
10	12	X

MG = diaphragm size

1) **Connection type**

- Code 2: Solvent cement socket DIN

2) **Valve body material**

- Code 1: PVC-U, grey

**Flange**

MG	DN	Connection type code <sup>1)</sup>									
		4					39				
		Material code <sup>2)</sup>									
		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	-	-

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, length only for body configuration D acc. to 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

**Flare**

MG	DN	Connection type code 75 <sup>1)</sup>
		Material code N5 <sup>2)</sup>
10	15	X
	20	X

MG = diaphragm size

1) **Connection type**

Code 75: Flare connection with PVDF union nut

2) **Valve body material**

Code N5: PP-H, natural

## Availability - Product conformity NSF (special function code N)

MG	DN	Connection type code <sup>1)</sup>									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
50	65	X	X	-	-	X	-	X	-	-	X	X

MG = diaphragm size

### 1) Connection type

Code 0: Spigot 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, dependent on body material

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

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

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 mounting plate

MG	DN	Material code <sup>1)</sup>
10	12	X
	15	X
	20	X

### 1) Valve body material

Code 20: PVDF

Code N5: PP-H, natural

## Availability of product compliance

	Diaphragm material code <sup>1)</sup>	Body material code <sup>2)</sup>
Food		
FDA	17, 54, 5M	20, 71, 75

### 1) Diaphragm material

Code 17: EPDM

Code 54: PTFE/EPDM one-piece

Code 5M: PTFE/EPDM two-piece

### 2) Valve body material

Code 20: PVDF

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

Code 75: Inliner PVDF/outliner PP, reinforced

## 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, electrically operated, electro-mechanical hollow shaft actuator, eSyDrive	R649

2 DN	Code
DN 12	12
DN 15	15
DN 20	20
DN 25	25
DN 32	32
DN 40	40
DN 50	50
DN 65	65

3 Body configuration	Code
2/2-way body	D

4 Connection type	Code
<b>Spigot</b>	
Spigot DIN	0
Spigot for IR butt welding	20
Spigot for IR butt welding, BCF	28
Spigot - inch, for welding or solvent cementing, dependent on body material	30
Body with threaded spigots for unions	7X
<b>Union end</b>	
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
<b>Threaded socket</b>	
Threaded socket DIN ISO 228	1
<b>Solvent cement socket</b>	
Solvent cement socket DIN	2
<b>Flange</b>	
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, length only for body configuration D acc. to EN 558 series 1, ISO 5752, basic series 1	39
<b>Flare</b>	
Flare connection with PVDF union nut	75

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
PP-H, natural	N5

6 Diaphragm material	Code
<b>Elastomer</b>	
NBR	2
FKM	4
EPDM	17
EPDM	29
<b>PTFE</b>	
PTFE/EPDM one-piece	54
PTFE/EPDM two-piece	5M
<b>Note:</b> The PTFE/EPDM diaphragm (code 5M) is available from diaphragm size 25.	

7 Voltage/Frequency	Code
24 V DC	C1

8 Control module	Code
OPEN/CLOSE, positioner and process controller	L0

9 Actuator version	Code
Actuator size 0	0A
Actuator size 0 diaphragm size 20 with distance piece	E0
Actuator size 1	1A
Actuator size 2	2A

10 Mounting plate	Code
With mounting plate	M
Without	

11 Special version	Code
NSF 61 water approval	N

**Order example**

Order option	Code	Description
1 Type	R649	Diaphragm valve, electrically operated, electro-mechanical hollow shaft actuator, eSyDrive
2 DN	40	DN 40
3 Body configuration	D	2/2-way body
4 Connection type	0	Spigot DIN
5 Valve body material	1	PVC-U, grey
6 Diaphragm material	17	EPDM
7 Voltage/Frequency	C1	24 V DC
8 Control module	L0	OPEN/CLOSE, positioner and process controller
9 Actuator version	2A	Actuator size 2
10 Mounting plate		Without
11 Special version	N	NSF 61 water approval

## 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	Media temperature
PVC-U, grey (code 1)	50 – 140 °F
ABS (code 4)	14 – 140 °F
PP, reinforced (code 5)	41 – 176 °F
PVDF (code 20)	14 – 176 °F
Inliner PP-H grey / outliner PP, reinforced (code 71)	41 – 176 °F
Inliner PVDF / outliner PP, reinforced (code 75)	14 – 176 °F
PP-H, natural (code N5)	41 – 176 °F

**Ambient temperature:**

Valve body material	Ambient temperature
PVC-U, grey (code 1)	50 – 122 °F
ABS (code 4)	14 – 122 °F
PP, reinforced (code 5)	41 – 122 °F
PVDF (code 20)	14 – 122 °F
Inliner PP-H grey / outliner PP, reinforced (code 71)	41 – 122 °F
Inliner PVDF / outliner PP, reinforced (code 75)	23 – 122 °F
PP-H, natural (code N5)	41 – 122 °F

### Pressure

**Operating pressure:**

MG	DN	Actuator version	Diaphragm materials	
			Elastomer	PTFE
10	12 - 20	0A	0 - 90	0 - 90
20	15 - 25	E0	0 - 90	0 - 75
		1A	0 - 150	0 - 150
25	32	1A	0 - 150	0 - 150
40	40 - 50	1A	0 - 75	0 - 30
		2A	0 - 150	0 - 150
50	65	2A	0 - 150	0 - 150

MG = diaphragm size

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.

**Pressure rating:** PN 10

**Pressure/temperature correlation:**

MG	Actuator version	Valve body material		Temperature in °C (valve body)										
		Materials	Code	14	32	41	50	68	86	104	122	140	158	176
10, 20	0C, 0E	PVC-U	1	-	-	-	90.0	90.0	90.0	90.0	51.0	22.0	-	-
		PP-H	5	-	-	90.0	90.0	90.0	90.0	90.0	80.0	60.0	39.0	22.0
		PVDF	20	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	78.0	68.0
		PP-H-Natur	N5	-	-	90.0	90.0	90.0	90.0	90.0	80.0	60.0	39.0	22.0
		ABS	4	90.0	90.0	90.0	90.0	90.0	90.0	60.0	30.0	-	-	
		PP-H	71	-	-	90.0	90.0	90.0	90.0	90.0	80.0	60.0	39.7	22.0
		PVDF	75	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	78.0	68.0
20, 25, 40, 50	1A, 2A	PVC-U	1	-	-	-	150.0	150.0	120.0	90.0	51.0	22.0	-	-
		ABS	4	150.0	150.0	150.0	150.0	150.0	120.0	90.0	60.0	30.0	-	-
		PP-H	5	-	-	150.0	150.0	150.0	123.0	105.0	80.0	60.0	39.0	22.0
		PP-H	71	-	-	150.0	150.0	150.0	123.0	105.0	80.0	60.0	39.0	22.0
		PVDF	20	150.0	150.0	150.0	150.0	150.0	131.0	120.0	103.0	91.0	78.0	68.0
		PVDF	75	150.0	150.0	150.0	150.0	150.0	131.0	120.0	103.0	91.0	78.0	68.0

MG = diaphragm size

Actuator version 0E with PTFE diaphragm can be used up to max. 5 bar. At temperatures above 30 °C the maximum operating pressure decreases.

Actuator version 1A in conjunction with diaphragm size MG 40 is limited to 5 bar operating pressure. In conjunction with a PTFE diaphragm to 2 bar. At temperatures above 30 °C the maximum operating pressure decreases. 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.

Depending on the valve configuration, the maximum operating pressure of the pressure rating may be lower. Observe the operating pressure table.

**Leakage rate:**

Leakage rate A to P11/P12 EN 12266-1

MG	DN	Kv values
10	12	3.28
	15	4.10
	20	4.10
20	15	7.02
	20	11.70
	25	14.04
25	32	23.40
40	40	49.14
	50	53.82
50	65	81.90

MG = diaphragm size, Kv values in m<sup>3</sup>/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.

## **Product compliance**

**Machinery Directive:** 2006/42/EC

**Pressure Equipment Directive:** 2014/68/EU

**Food:** Regulation (EC) No. 1935/2004  
Regulation (EC) No. 10/2011\*  
FDA\*

**EMC Directive:** 2014/30/EU

Technical standards used:

Interference resistance    DIN EN 61000-6-2 (Nov. 2019)  
DIN EN 61326-1 (industry)

Interference emission    Actuator size 2, 3  
DIN EN 61000-6-4  
Interference emission class: Class A  
Interference emission group: Group 1  
  
Actuator size 4, 5  
DIN EN 61800-3  
Category: C3  
The product is intended for operation in industrial environments.

**Drinking water:** NSF/ANSI\*

\* depending on version and/or operating parameters

## **Materials**

**Materials:**

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

## Mechanical data

<b>Protection class:</b>	IP 65 acc. to EN 60529		
<b>Actuating speed:</b>	Actuator version 0A	adjustable, max. 6 mm/s	
	Actuator version E0	adjustable, max. 6 mm/s	
	Actuator version 1A	adjustable, max. 6 mm/s	
	Actuator version 2A	adjustable, max. 4 mm/s	

<b>Weight:</b>	<b>Actuator</b>		
	Actuator version 0A	4.63 lb	
	Actuator version E0	4.85 lb	
	Actuator version 1A	6.61 lb	
	Actuator version 2A	19.84 lb	

### Valve body

MG	DN	Spigot			Union end				Flange	Threaded socket	Solvent cement socket	Flare				
		Connection type code														
		0, 30	20	28	7, 7R	33	3M, 3T	78					4, 39	1	2	75
10	12	-	-	-	-	-	-	-	-	0.18	0.13	-				
	15	-	-	0.29	0.40	0.29	-	0.44	-	-	-	0.18				
	20	-	-	-	-	-	-	-	-	-	-	0.28				
20	15	0.26	0.22	-	0.37	0.53	0.57	0.60	1.48	-	-	-				
	20	0.29	0.26	-	0.46	0.62	0.66	0.79	1.85	-	-	-				
20	25	0.35	0.31	-	0.57	0.73	0.84	0.82	2.82	-	-	-				
	32	0.49	0.40	-	0.88	1.54	1.61	1.39	4.17	-	-	-				
40	40	1.10	0.88	-	1.61	1.83	2.05	2.49	5.20	-	-	-				
	50	1.26	1.04	-	2.20	3.09	3.31	3.53	6.79	-	-	-				
50	65	2.03	7.87	-	-	-	-	-	7.05	-	-	-				

MG = diaphragm size  
Weight in lb

**Installation position:** Optional

**Flow direction:** Optional

## Duty cycle and service life

- Service life:** **Control operation** - Class C acc. to EN 15714-2 (1,800,000 start-ups and 1200 start-ups per hour).  
**Open / Close duty** - Minimum 1,000,000 switching cycles at room temperature and permissible duty cycle.
- Duty cycle:** **Control operation** - Class C acc. to EN 15714-2.  
**Open/Close duty** - 100% ED.

## Electrical data

Supply voltage:	Actuator size 0	Actuator size 1	Actuator size 2
Voltage	U <sub>v</sub> = 24 V DC ± 10%		
Rating	Max. 28 W	Max. 65 W	Max. 120 W
Reverse battery protection	Yes		

## Analogue input signals

### Set value

- Input signal:** 0/4 - 20 mA; 0 – 10 V DC (selectable using software)
- Input type:** passive
- Input resistance:** 250 Ω
- Accuracy/linearity:** ≤ ±0.3% of full flow
- Temperature drift:** ≤ ±0.1% / 10°K
- Resolution:** 12 bit
- Reverse battery protection:** No
- Overload proof:** Yes (up to ± 24 V DC)

### Process actual value

- Input signal:** 0/4 - 20 mA; 0 – 10 V DC (selectable using software)
- Input type:** passive
- Input resistance:** 250 Ω
- Accuracy/linearity:** ≤ ±0.3% of full flow
- Temperature drift:** ≤ ±0.1% / 10°K
- Resolution:** 12 bit
- Reverse battery protection:** No
- Overload proof:** Yes (up to ± 24 V DC)

**Digital input signals**

<b>Digital inputs:</b>	3
<b>Function:</b>	selectable using software
<b>Voltage:</b>	24 V DC
<b>Logic level "1":</b>	>14 V DC
<b>Logic level "0":</b>	< 8 V DC
<b>Input current:</b>	typ. 2.5 mA (at 24 V DC)

**Analogue output signals****Actual value**

<b>Output signal:</b>	0/4 - 20 mA; 0 – 10 V DC (selectable using software)
<b>Output type:</b>	Active (AD5412)
<b>Accuracy:</b>	≤ ±1% of full flow
<b>Temperature drift:</b>	≤ ±0.1% / 10°K
<b>Load resistor:</b>	≤ 750 kΩ
<b>Resolution:</b>	10 bit
<b>Overload proof:</b>	Yes (up to ± 24 V DC)
<b>Short-circuit proof:</b>	Yes

**Digital output signals****Switching outputs 1 and 2**

<b>Design:</b>	2x make contact, potential-free
<b>Switching voltage:</b>	max. 48 V DC / 48 V AC
<b>Switch rating:</b>	max. 60 W / 2A
<b>Switch points:</b>	Adjustable 0 - 100 %

**Switching output 3**

<b>Function:</b>	Signal fault
<b>Type of contact:</b>	Push-Pull
<b>Switching voltage:</b>	Supply voltage
<b>Switching current:</b>	≤ 0.1 A
<b>Drop voltage:</b>	Max. 2.5 V DC at 0.1 A
<b>Overload proof:</b>	Yes (up to ± 24 V DC)
<b>Short-circuit proof:</b>	Yes
<b>Pull-Down resistance:</b>	120 kΩ

### **Communication eSy-Web**

- Interface:** Ethernet
- Function:** Parameterisation via web browser
- IP address:** 192.168.2.1 alterable via web browser
- Subnet screen:** 255.255.252.0 alterable via web browser

The actuator and the PC must be in the same network to use the web server. The IP address of the actuator is entered in the web browser and the actuator can then be parametrised. In order to use more than one actuator, a definitive IP address must be assigned to each actuator in the same network.

### **Communication Modus TCP**

- Interface:** Modbus TCP
- IP address:** 192.168.2.1 alterable via web browser
- Subnet screen:** 255.255.252.0 alterable via web browser
- Port:** 502

**Supported function codes:**

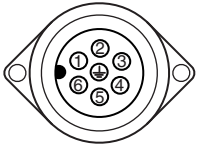
Code Dezimal	Code Hex	Function
3	0x03	Read Holding Registers
4	0x04	Read Input Registers
6	0x06	Write Single Register
16	0x10	Write Multiple Registers
23	0x17	Read / Write Multiple Registers

### **Behaviour in the event of an error**

- Function:** In the event of an error the valve moves to the error position.  
 Notes: Moving to the error position is only possible with full power supply. This behaviour is not a safety position. The valve must be operated with a GEMÜ 1571 emergency power supply module (see accessories) to ensure the function in case of voltage loss.
- Error position:** Closed, open or hold (adjustable via eSy-web web interface).

## Electrical connection

### Connection X1



7-pin plug, Binder, type 693

Pin	Signal name
Pin 1	Uv, 24 V DC supply voltage
Pin 2	Uv GND
Pin 3	Relay output K1, common
Pin 4	Relay output K1, make contact
Pin 5	Relay output K2, common
Pin 6	Relay output K2, make contact
Pin PE	Function earth

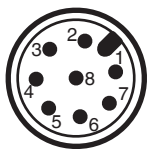
### Connection X2



5-pin M12 built-in socket, D-coded

Pin	Signal name
Pin 1	Tx + (Ethernet)
Pin 2	Rx + (Ethernet)
Pin 3	Tx - (Ethernet)
Pin 4	Rx - (Ethernet)
Pin 5	Shield

### Connection X3



8-pin M12 plug, A-coded

Pin	Signal name
Pin 1	W+ set value input
Pin 2	W – set value input
Pin 3	X + actual value output
Pin 4	GND (actual value output, digital input 1 – 3, error message output)
Pin 5	Error message output 24 V DC
Pin 6	Digital input 3
Pin 7	Digital input 1
Pin 8	Digital input 2

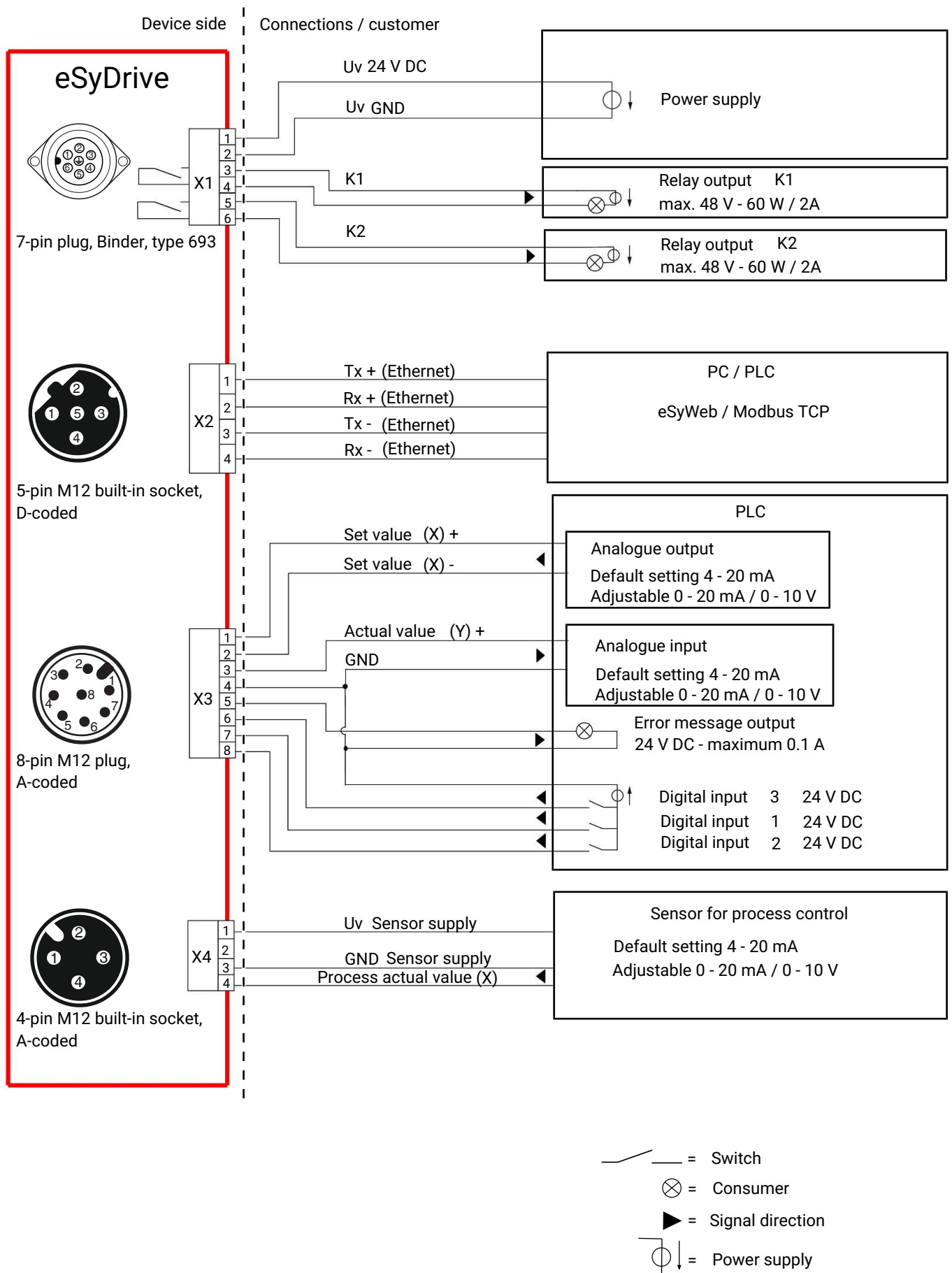
### Connection X4



4-pin M12 built-in socket, A-coded

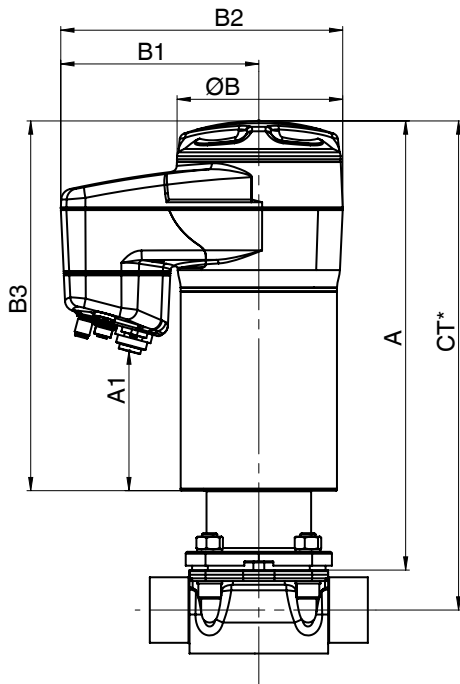
Pin	Signal name
Pin 1	UV, 24 V DC actual value supply
Pin 2	n.c.
Pin 3	GND (actual value supply, actual value input)
Pin 4	X+, process actual value input
Pin 5	n.c.

**Connection diagram**



## Dimensions

### Actuator dimensions



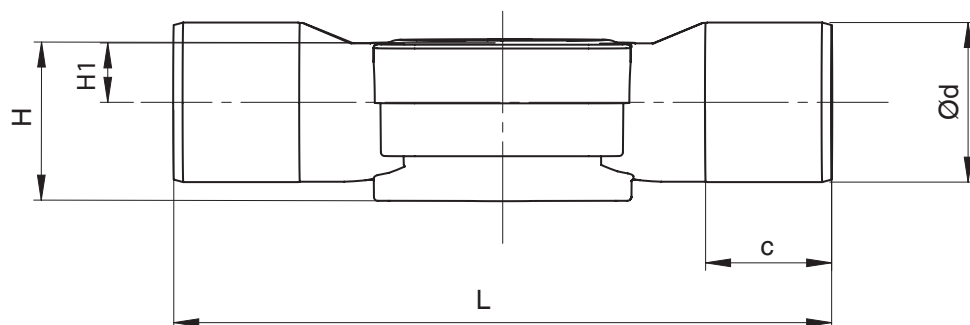
MG	DN	Actuator version	A	A1	Ø B	B1	B2	B3
10	10 - 20	0A	9.06	1.73	2.68	4.96	6.30	7.48
20	15 - 25	E0	9.33	1.73	2.68	4.96	6.30	7.48
		1A	11.77	3.27	3.23	5.20	6.77	9.84
25	32	1A	12.01	3.27	3.23	5.20	6.77	9.84
40	40, 50	1A	11.93	2.95	3.23	5.20	6.77	9.57
		2A	14.17	4.37	5.28	6.18	8.82	11.65
50	65	2A	14.17	4.37	5.28	6.18	8.82	11.65

\* CT = A + H1 (see body dimensions)

Dimensions in inch, MG = diaphragm size

## Body dimensions

### Spigot DIN/inch (code 0, 30)



Connection type spigot DIN (code 0)<sup>1)</sup>, body material PVC-U (code 1), PP (code 5), PVDF (code 20), inliner/outliner (code 71, 75)<sup>2)</sup>

MG	DN	NPS	c			ød	H			H1	L
			Material				Material				
			1	5, 20	71, 75		1	5, 20	71, 75		
20	15	1/2"	0.63	-	0.71	0.79	1.42	-	1.42	0.39	4.88
	20	3/4"	0.75	-	0.75	0.98	1.50	-	1.50	0.47	5.67
	25	1"	0.87	-	0.87	1.26	1.54	-	1.54	0.51	6.06
25	32	1 1/4"	1.26	-	1.26	1.57	1.61	-	1.61	0.59	6.85
40	40	1 1/2"	1.38	-	1.02	1.97	2.49	-	2.49	0.91	7.64
	50	2"	1.50	-	1.30	2.48	2.49	-	2.49	0.91	8.82
50	65	2 1/2"	1.81	1.81	-	2.95	3.10	3.10	-	1.53	11.18

Connection type spigot - inch (code 30)<sup>1)</sup>, body material PVC-U (code 1), ABS (code 4)<sup>2)</sup>

MG	DN	NPS	c	ød	H	H1	L
20	15	1/2"	0.94	0.84	1.42	0.39	5.55
	20	3/4"	1.06	1.05	1.50	0.47	5.67
	25	1"	1.18	1.32	1.54	0.51	6.06
25	32	1 1/4"	1.30	1.66	1.61	0.59	6.85
40	40	1 1/2"	1.38	1.90	2.49	0.91	7.64
	50	2"	1.57	2.37	2.49	0.91	8.82
50	65	2 1/2"	1.81	2.87	3.10	1.53	11.18

Dimensions in inch

MG = diaphragm size

#### 1) Connection type

Code 0: Spigot DIN

Code 30: Spigot - inch, for welding or solvent cementing, dependent on body material

#### 2) Valve body material

Code 1: PVC-U, grey

Code 4: ABS

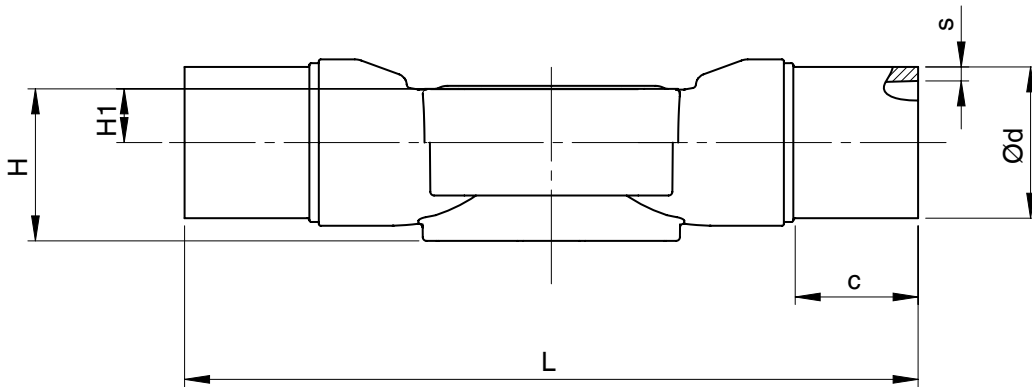
Code 5: PP, reinforced

Code 20: PVDF

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

Code 75: Inliner PVDF/outliner PP, reinforced

**Spigot IR (code 20)**



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

MG	DN	NPS	c	ød	H	H1	L	s	
								Material	
								71	75
20	15	1/2"	1.30	0.79	1.42	0.39	6.06	0.07	0.07
	20	3/4"	1.30	0.98	1.50	0.47	6.06	0.09	0.07
	25	1"	1.30	1.26	1.54	0.51	6.06	0.11	0.09
25	32	1¼"	1.30	1.57	1.61	0.59	7.64	0.15	0.09
40	40	1½"	1.30	1.97	2.49	0.91	7.64	0.18	0.12
	50	2"	1.30	2.48	2.49	0.91	8.82	0.23	0.12

Connection type spigot IR (code 20)<sup>1)</sup>, body material PVDF (code 20)<sup>2)</sup>

MG	DN	NPS	c	ød	H	H1	L	s
50	65	2½"	1.69	2.95	3.10	1.53	11.18	0.14

Dimensions in inch

MG = diaphragm size

1) **Connection type**

Code 20: Spigot for IR butt welding

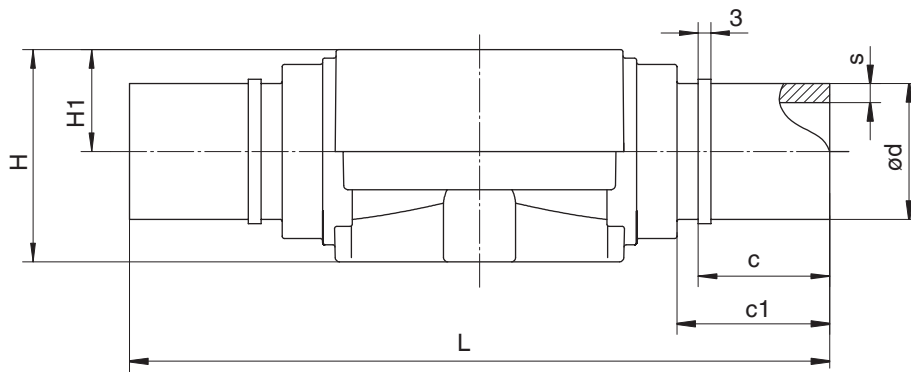
2) **Valve body material**

Code 20: PVDF

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

Code 75: Inliner PVDF/outliner PP, reinforced

**Spigot (code 28)**



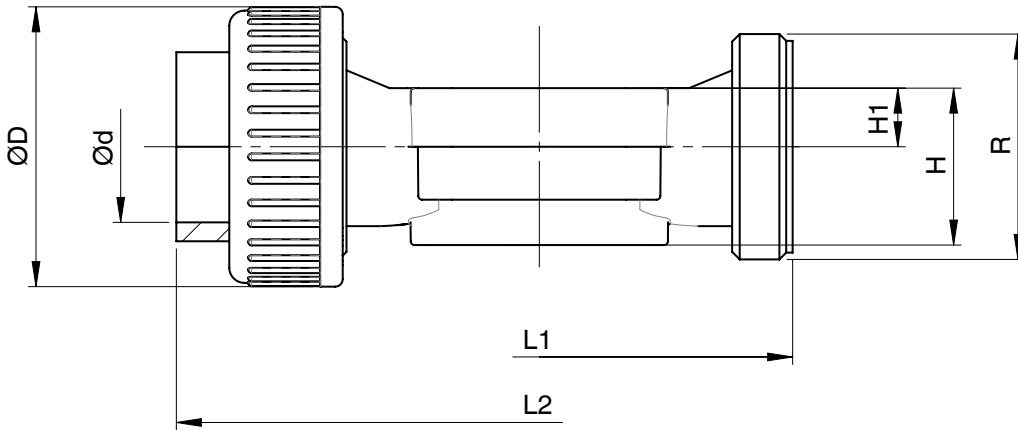
**Connection type spigot (code 28)<sup>1)</sup>, body material PVDF (code 20)<sup>2)</sup>**

MG	DN	NPS	c	c1	ød	H	H1	L	s
10	15	1/2"	1.22	1.46	0.79	1.61	0.63	5.28	0.75

Dimensions in inch  
 MG = diaphragm size

- 1) **Connection type**  
 Code 28: Spigot for IR butt welding, BCF
- 2) **Valve body material**  
 Code 20: PVDF

**Union end DIN (code 7)**



Connection type union end DIN (code 7)<sup>1)</sup>, body material PVC-U (code 1), PP (code 5), PVDF (code 20), PP-H (code N5)<sup>2)</sup>, diaphragm size 10

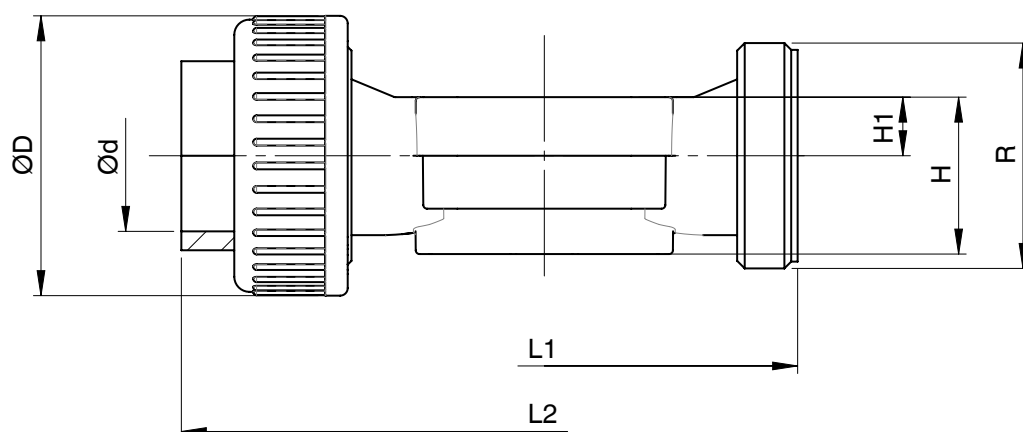
MG	DN	NPS	ød	øD	H		H1		L1	L2		R
					Material		Material			Material		
					1, 20	5, N5	1, 20	5, N5		1, 20	5, N5	
10	15	1/2"	0.79	1.69	1.18	1.61	0.59	0.63	3.54	5.04	4.92	G 1

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

MG	DN	NPS	ød	øD	H	H1	L1	L2				R
								Material				
								1	4	71	75	
20	15	1/2"	0.79	1.69	1.42	0.39	4.25	5.75	5.91	5.63	5.75	G 1
	20	3/4"	0.98	2.09	1.50	0.47	4.25	5.98	6.14	5.75	5.91	G 1¼
	25	1"	1.26	2.36	1.54	0.51	4.57	6.54	6.69	6.22	6.38	G 1½
25	32	1¼"	1.57	2.91	1.61	0.59	5.28	7.56	7.72	7.13	7.24	G 2
40	40	1½"	1.97	3.27	2.49	0.91	6.06	8.74	8.74	8.15	8.27	G 2¼
	50	2"	2.48	4.06	2.49	0.91	7.24	10.47	10.47	9.65	9.76	G 2¾

Dimensions in inch  
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 5: PP, reinforced  
Code 20: PVDF  
Code 71: Inliner PP-H, grey, outliner PP, reinforced  
Code 75: Inliner PVDF/outliner PP, reinforced  
Code N5: PP-H, natural

**Union end inch (code 33, 3M, 3T)****Connection type union end inch (code 33)<sup>1)</sup>, body material PVC-U (code 1)<sup>2)</sup>, diaphragm size 10**

MG	DN	NPS	ød	øD	H	H1	L1	L2	R
10	15	1/2"	8.43	1.69	1.18	0.59	3.54	5.04	G1

**Connection type union end inch (code 33, 3M, 3T)<sup>1)</sup>, body material PVC-U (code 1)<sup>2)</sup>, 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"	0.84	0.84	0.87	1.69	2.09 *	1.42	0.39	4.25	5.75	6.22	5.98	G 1	G 1¼ *	
	20	3/4"	1.06	1.05	1.02	2.09	2.09	1.50	0.47	4.25	5.98	6.46	5.98	G 1¼	G 1¼	
	25	1"	1.32	1.32	1.26	2.36	2.36	1.54	0.51	4.57	6.54	7.09	6.54	G 1½	G 1½	
25	32	1¼"	1.67	1.66	1.50	2.91	2.91	1.61	0.59	5.28	7.56	8.03	7.56	G 2	G 2	
40	40	1½"	1.90	1.90	1.89	3.27	3.27	2.49	0.91	6.06	8.74	9.06	8.74	G 2¼	G 2¼	
	50	2"	2.38	2.38	2.36	4.06	4.06	2.49	0.91	7.24	10.39	10.47	10.47	G 2¾	G 2¾	

**Connection type BS (code 33)<sup>1)</sup>, body material ABS (code 4)<sup>2)</sup>**

MG	DN	NPS	ød	øD	H	H1	L1	L2	R
20	15	1/2"	0.84	1.69	1.42	0.39	4.25	5.91	G 1
	20	3/4"	1.06	2.09	1.50	0.47	4.25	6.14	G 1¼
	25	1"	1.32	2.36	1.54	0.51	4.57	6.69	G 1½
25	32	1¼"	1.67	2.91	1.61	0.59	5.28	7.80	G 2
40	40	1½"	1.90	3.27	2.49	0.91	6.06	8.66	G 2¼
	50	2"	2.38	4.06	2.49	0.91	7.24	10.39	G 2¾

Dimensions in inch

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)

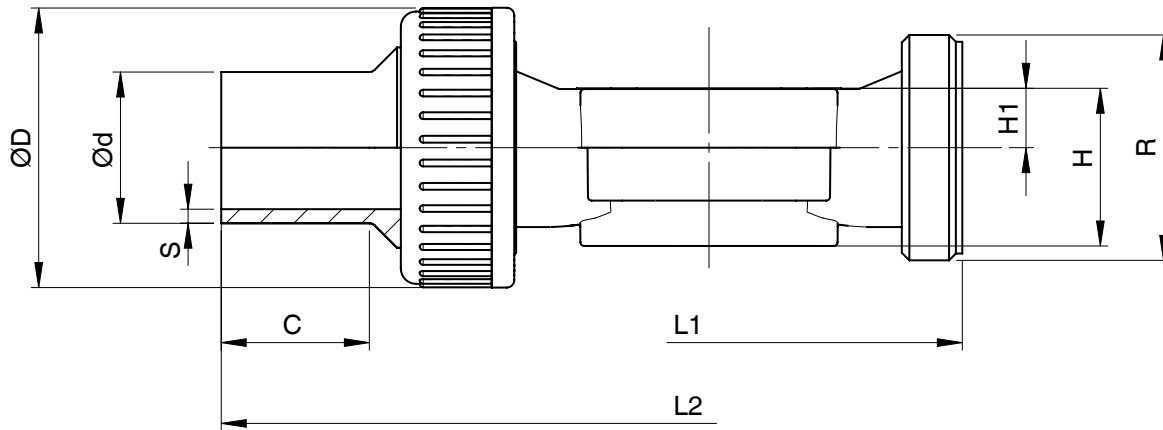
Code 3T: Union end with JIS insert (socket)

**2) Valve body material**

Code 1: PVC-U, grey

Code 4: ABS

**Union end DIN, IR butt welding (code 78)**



Connection type union end DIN, IR butt welding (code 78)<sup>1)</sup>, body materials PP (code 5), PVDF (code 20), PP-H (code N5)<sup>2)</sup>

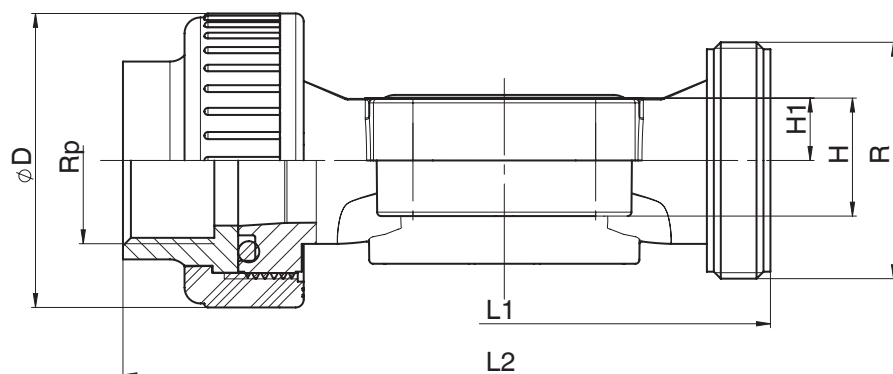
MG	DN	NPS	c	ød	øD	H		H1		L1	L2	R	s
						Material		Material					
						5	20, N5	5	20, N5				
10	15	1/2"	1.42	0.79	1.65	1.18	1.61	0.59	0.63	3.54	7.72	0.04	0,07

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

MG	DN	NPS	c	ød	øD	H	H1	L1	L2	R	s	
											Material	
											71	75
20	15	1/2"	1.42	0.03	1.69	1.42	0.39	4.25	8.43	G 1	0.07	0.07
	20	3/4"	1.46	0.04	2.09	1.50	0.47	4.25	8.66	G 1¼	0.09	0.07
	25	1"	1.54	1.26	2.36	1.54	0.51	4.57	9.21	G 1½	0.11	0.09
25	32	1¼"	1.54	1.57	2.91	1.61	0.59	5.28	10.16	G 2	0.15	0.09
40	40	1½"	1.69	1.97	3.27	2.49	0.91	6.06	11.18	G 2¼	0.18	0.12
	50	2"	1.69	2.48	4.06	2.49	0.91	7.24	12.60	G 2¾	0.23	0.12

Dimensions in inch  
MG = diaphragm size

- 1) **Connection type**  
Code 78: Union end with insert (for IR butt welding) – DIN
- 2) **Valve body material**  
Code 5: PP, reinforced  
Code 20: PVDF  
Code 71: Inliner PP-H, grey, outliner PP, reinforced  
Code 75: Inliner PVDF/outliner PP, reinforced  
Code N5: PP-H, natural

**Union end Rp (code 7R)****Connection type union end Rp (code 7R)<sup>1)</sup>, body material PVC-U (code 1)<sup>2)</sup>**

MG	DN	NPS	øD	H	H1	L1	L2	R	Rp
20	15	1/2"	1.69	1.42	0.39	4.25	5.75	G 1	1/2
	20	3/4"	2.09	1.50	0.47	4.25	5.98	G 1¼	3/4
	25	1"	2.36	1.54	0.51	4.57	6.54	G 1½	1
25	32	1¼"	2.91	1.61	0.59	5.28	7.56	G 2	1¼
40	40	1½"	3.27	2.49	0.91	6.06	8.74	G 2¼	1½
	50	2"	4.06	2.49	0.91	7.24	10.47	G 2¾	2

Dimensions in inch

MG = diaphragm size

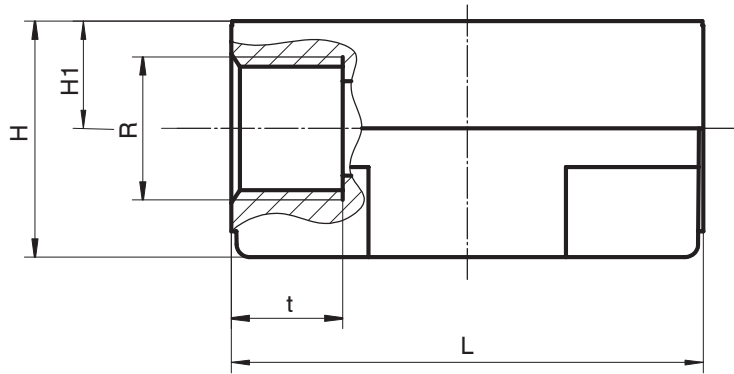
**1) Connection type**

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

**2) Valve body material**

Code 1: PVC-U, grey

**Threaded socket (code 1)**



Connection type threaded socket (code 1)<sup>1)</sup>, body materials PVC-U (code 1), PP (code 5), PVDF (code 20)<sup>2)</sup>

MG	DN	NPS	H		H1	L	R	t
			Material					
			1, 5	20				
10	12	1/2"	1.08	1.24	0.49	2.17	G3/8	0.51

Dimensions in inch

MG = diaphragm size

1) **Connection type**

Code 1: Threaded socket DIN ISO 228

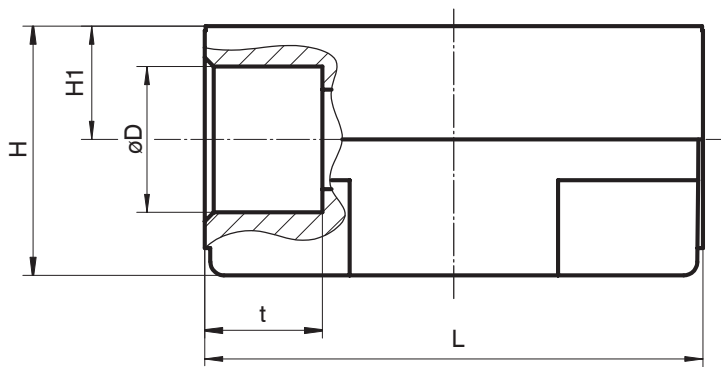
2) **Valve body material**

Code 1: PVC-U, grey

Code 5: PP, reinforced

Code 20: PVDF

**Solvent cement socket (code 2)**



Connection type solvent cement socket (code 2)<sup>1)</sup>, body material PVC-U (code 1)<sup>2)</sup>

MG	DN	NPS	ø D	H	H1	L	t
10	12	1/2"	0.63	1.08	0.49	2.17	0.51

Dimensions in inch

MG = diaphragm size

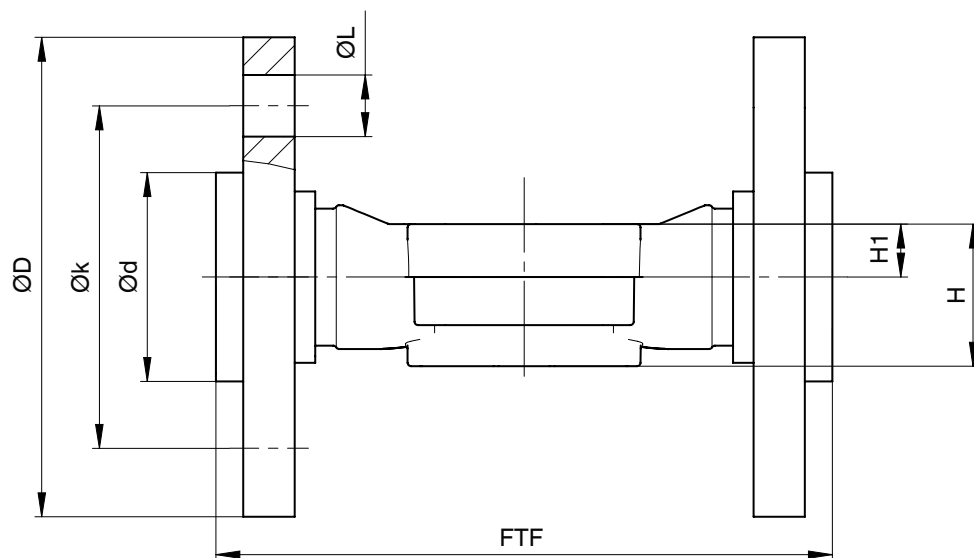
1) **Connection type**

Code 2: Solvent cement socket DIN

2) **Valve body material**

Code 1: PVC-U, grey

**Flange EN (code 4)**



Connection type flange EN (code 4)<sup>1)</sup>, body material PVC-U (code 1)<sup>2)</sup>

MG	DN	NPS	ød	øD	FTF	H	H1	øk	øL	n
20	15	1/2"	1.34	3.74	5.12	1.42	0.39	2.56	0.55	4
	20	3/4"	1.61	4.13	5.91	1.50	0.47	2.95	0.55	4
	25	1"	1.97	4.53	6.30	1.54	0.51	3.35	0.55	4
25	32	1¼"	2.40	5.51	7.09	1.61	0.59	3.94	0.71	4
40	40	1½"	2.87	5.91	7.87	2.49	0.91	4.33	0.71	4
	50	2"	3.54	6.50	9.06	2.49	0.91	4.92	0.71	4
50	65	2½"	4.17	7.28	11.42	3.10	1.53	5.71	0.71	4

Connection type flange EN (code 4)<sup>1)</sup>, body materials PP (code 5), PVDF (code 20)<sup>2)</sup>

MG	DN	NPS	ød		øD	FTF	H	H1	øk	øL	n
			Material								
			5	20							
50	65	2½"	4.80	4.72	7.28	11.42	3.10	1.53	5.71	0.71	4

Dimensions in inch

MG = diaphragm size

n = number of bolts

1) **Connection type**

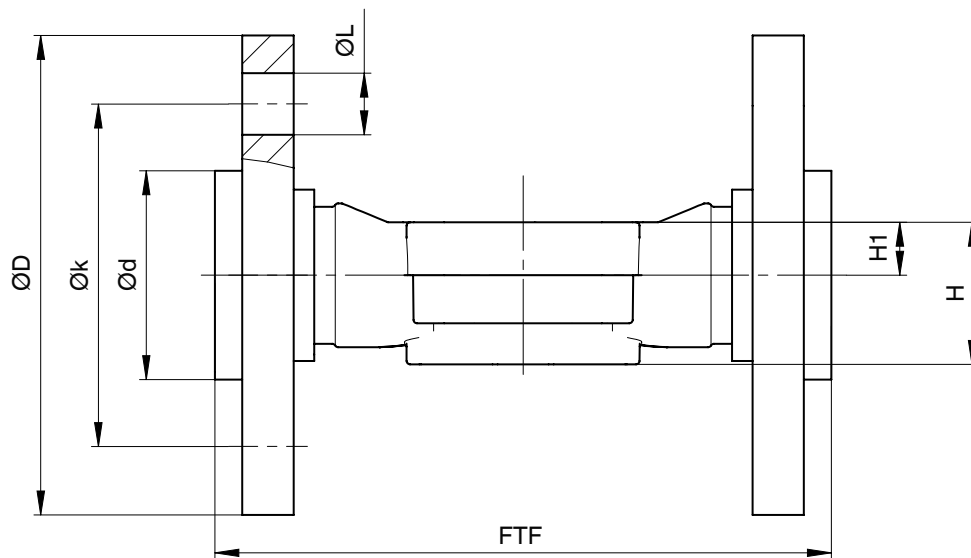
Code 4: Flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

2) **Valve body material**

Code 1: PVC-U, grey

Code 5: PP, reinforced

Code 20: PVDF



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

MG	DN	NPS	ød	øD	FTF	H	H1	øk	øL	n
20	15	1/2"	1.77	3.74	5.12	1.42	0.39	2.56	0.55	4
	20	3/4"	2.28	4.13	5.91	1.50	0.47	2.95	0.55	4
	25	1"	2.68	4.53	6.30	1.54	0.51	3.35	0.55	4
25	32	1¼"	3.07	5.51	7.09	1.61	0.59	3.94	0.71	4
40	40	1½"	3.46	5.91	7.87	2.49	0.91	4.33	0.71	4
	50	2"	4.02	6.50	9.06	2.49	0.91	4.92	0.71	4

Dimensions in inch

MG = diaphragm size

n = number of bolts

1) **Connection type**

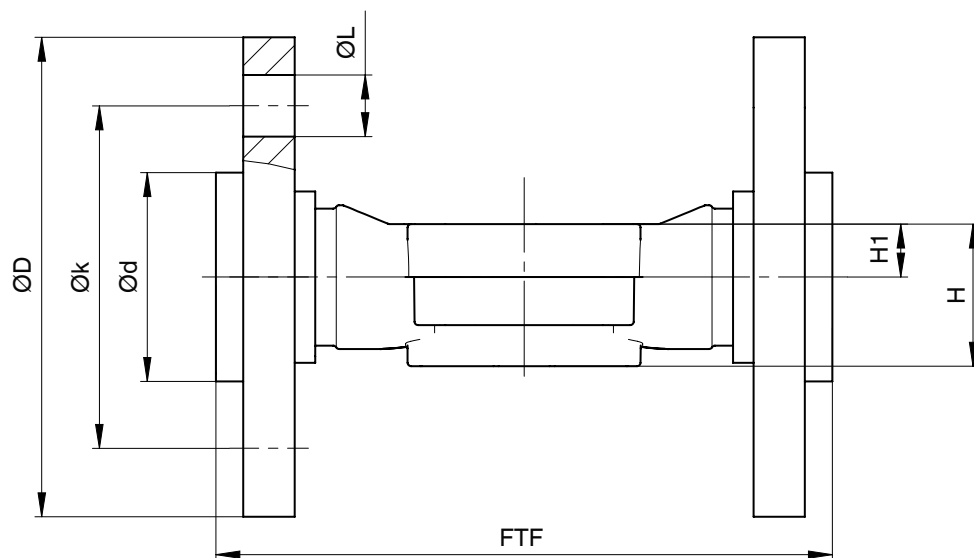
Code 4: Flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

2) **Valve body material**

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

Code 75: Inliner PVDF/outliner PP, reinforced

**Flange ANSI (code 39)**



Connection type flange ANSI (code 39)<sup>1)</sup>, body material PVC-U (code 1)<sup>2)</sup>

MG	DN	NPS	ød	øD	FTF	H	H1	øk	øL	n
20	15	1/2"	1.34	3.74	5.12	1.42	0.39	2.36	0.63	4
	20	3/4"	1.61	4.13	5.91	1.50	0.47	2.76	0.63	4
	25	1"	1.97	4.53	6.30	1.54	0.51	3.11	0.63	4
25	32	1¼"	2.40	5.51	7.09	1.61	0.59	3.50	0.63	4
40	40	1½"	2.87	5.91	7.87	2.49	0.91	3.86	0.63	4
	50	2"	3.54	6.50	9.06	2.49	0.91	4.76	0.75	4
50	65	2½"	4.17	7.28	11.42	3.10	1.53	5.51	0.75	4

Connection type flange ANSI (code 39)<sup>1)</sup>, body material PP (code 5), PVDF (code 20)<sup>2)</sup>

MG	DN	NPS	ød		øD	FTF	H	H1	øk	øL	n
			Material								
			5	20							
50	65	2½"	4.80	4.72	7.28	11.42	3.10	1.53	5.51	0.75	4

Dimensions in inch

MG = diaphragm size

n = number of bolts

1) **Connection type**

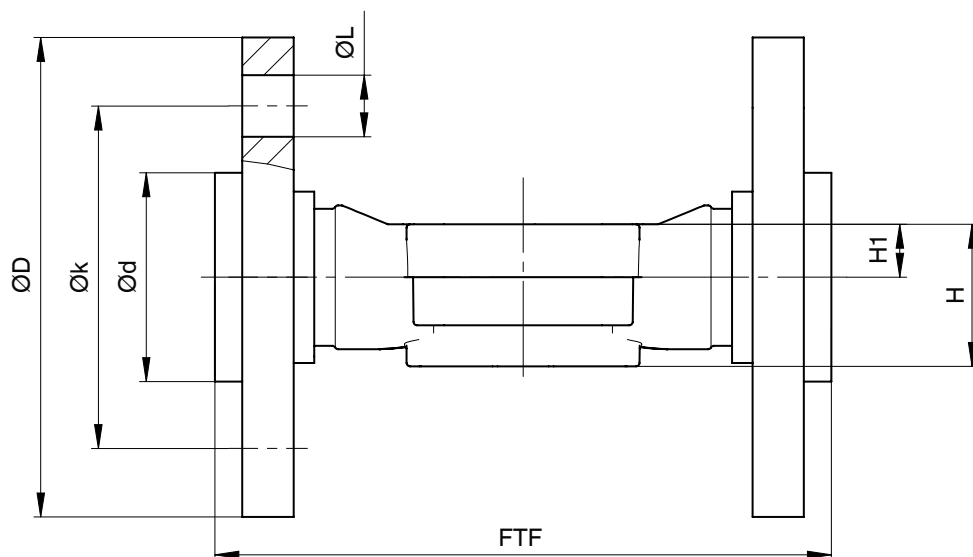
Code 39: Flange ANSI Class 125/150 RF, length only for body configuration D acc. to EN 558 series 1, ISO 5752, basic series 1

2) **Valve body material**

Code 1: PVC-U, grey

Code 5: PP, reinforced

Code 20: PVDF



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

MG	DN	NPS	ød	øD	FTF	H	H1	øk	øL	n
20	15	1/2"	1.77	3.74	5.12	1.42	0.39	2.36	0.63	4
	20	3/4"	2.13	4.13	5.91	1.50	0.47	2.76	0.63	4
	25	1"	2.48	4.53	6.30	1.54	0.51	3.11	0.63	4
25	32	1¼"	2.87	5.51	7.09	1.61	0.59	3.50	0.63	4
40	40	1½"	3.23	5.91	7.87	2.49	0.91	3.86	0.63	4
	50	2"	4.02	6.50	9.06	2.49	0.91	4.76	0.75	4

Dimensions in inch

MG = diaphragm size

n = number of bolts

1) **Connection type**

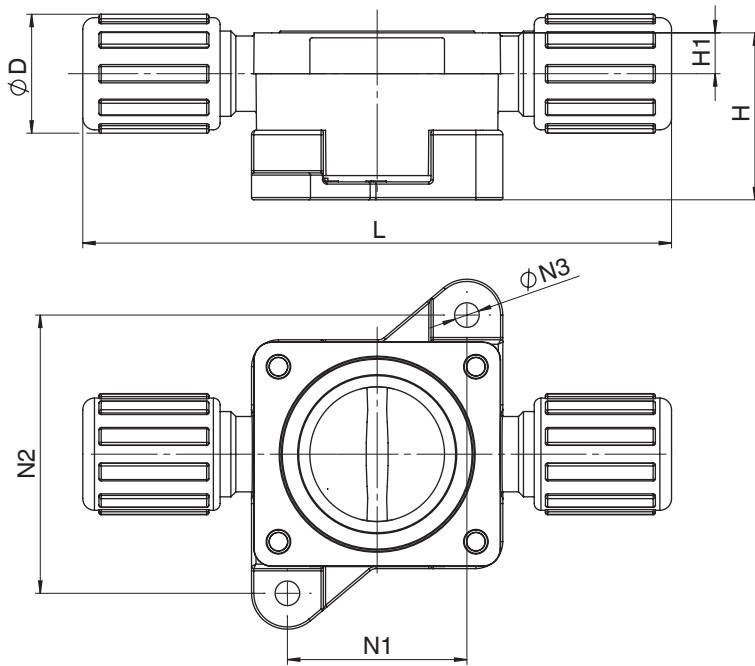
Code 39: Flange ANSI Class 125/150 RF, length only for body configuration D acc. to EN 558 series 1, ISO 5752, basic series 1

2) **Valve body material**

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

Code 75: Inliner PVDF/outliner PP, reinforced

**Flare (code 75)**



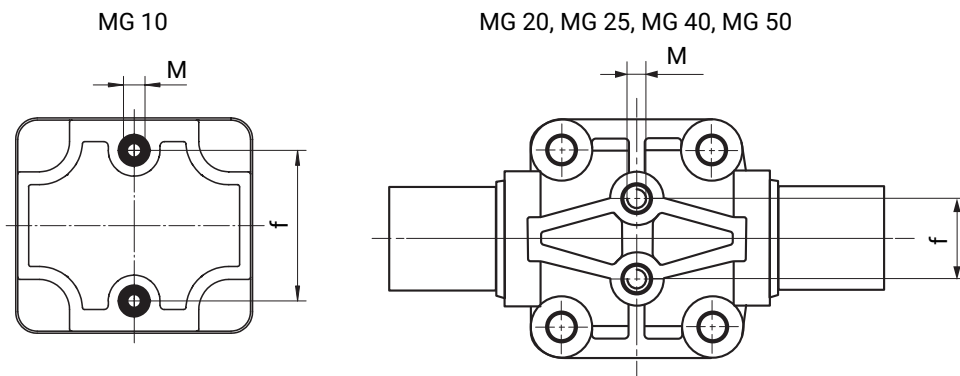
**Connection type flare (code 75) <sup>1)</sup>, body material PP-H (code N5) <sup>2)</sup>**

MG	DN	NPS	$\phi D$	H	H1	L	N1	N2	$\phi N3$
10	15	1/2"	1.04	1.50	0.39	5.20	1.57	2.44	0.22
	20	3/4"	1.04	1.75	0.59	5.28	1.57	2.44	0.22

Dimensions in inch  
 MG = diaphragm size

- 1) **Connection type**  
 Code 75: Flare connection with PVDF union nut
- 2) **Valve body material**  
 Code N5: PP-H, natural

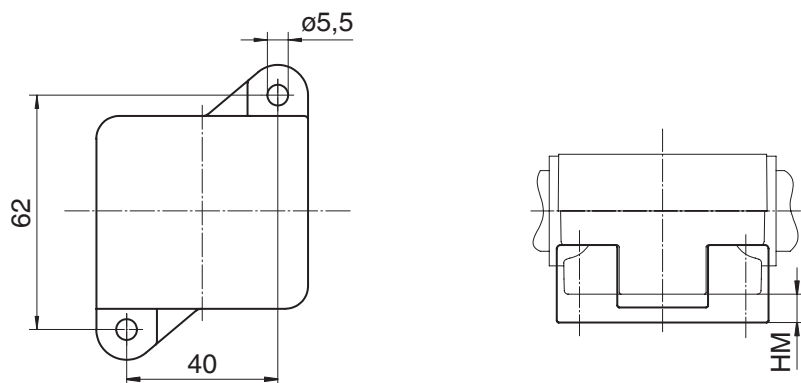
### Valve body mounting



MG	DN	NPS	f	M	
				Connection type	
				0, 4, 7, 7R, 20, 28, 33, 39, 3M, 3T, 78	30
10	12 - 20	1/4" - 1/2"	35.0	M5	M5 *
20	15 - 25	1/2" - 1"	25.0	M6	M6 *
25	32	1 1/4"	25.0	M6	M6 *
40	40 - 50	1 1/2" - 2"	44.5	M8	M8 *
50	65	2 1/2"	44.5	M8	M8 *

\* Inch thread on request

### Availability of mounting plate



MG	DN	HM
10	12	5.0
	15	4.5
	20	4.5

## Accessories



### GEMÜ 1218

#### Connector

The GEMÜ 1218 is a connector (cable socket / cable plug), 7-pin. Straight and/or 90° angled plug type.

#### Ordering information

GEMÜ 1218 Binder connector			
<b>Connection X1 – supply voltage, relay outputs</b>			
Binder plug	468/eSy series mating connector	Terminal compartment/ screws, 7-pin	88220649 <sup>1)</sup>
		Terminal compartment/ screws, 7-pin, 90°	88377714
		Terminal compartment/ screws, 7-pin, 90°, fitted with a 2 metre cable set	88770522

1) provided in the scope of delivery

**GEMÜ 1219****Cable socket / cable plug M12**

The GEMÜ 1219 is a connector (cable socket / cable plug) M12, 5-pin. Straight and/or 90° angled plug type. Defined cable length or with threaded connection without cable. Various materials available for the threaded ring.

**Ordering information**

GEMÜ 1219 Ethernet/M12 cable			
<b>Connection X2 - network connection</b>			
M12 cable plug, straight, 4-pin	Fitted with a 1 metre cable set	Ethernet RJ45	88450499
	Fitted with a 4 metre cable set		88450500
	Fitted with a 15 metre cable set		88450502
M12 cable plug, angled, 4-pin	Fitted with a 4 metre cable set		88715615
<b>Connection X3 – analogue/digital inputs and outputs</b>			
M12 cable socket, straight, 8-pin	Without cable, for cable dia. 6-8 mm		88304829 <sup>1)</sup>
	Fitted with a 5 metre cable set, PUR black cable		88758155
M12 cable socket, angled, 8-pin	Without cable, for cable dia. 6-8 mm		88422823
	Fitted with a 5 metre cable set, PUR black cable		88374574
<b>Connection X4 – actual value supply, actual value input</b>			
M12 cable plug, straight, 5-pin	Without cable PG7	Nickel-plated brass	88208641 <sup>1)</sup>
	Fitted with a 2 metre cable set, PUR black cable	5 x 0.34, nickel-plated brass	88208643
	Fitted with a 5 metre cable set, PUR black cable	5 x 0.34, nickel-plated brass	88208644
M12 cable plug, angled, 5-pin	Without cable, for cable dia. 6-8 mm	Nickel-plated brass	88208645
	Fitted with a 2 metre cable set, PUR black cable	5 x 0.34, nickel-plated brass	88208649
	Fitted with a 5 metre cable set, PUR black cable	5 x 0.34, nickel-plated brass	88208650

1) provided in the scope of delivery



### GEMÜ 1571

#### Emergency power supply module

The GEMÜ 1571 capacitive emergency power supply module is suitable for valves with motorized actuators such as GEMÜ eSyStep and eSyDrive as well as the GEMÜ C53 iComLine control valve. In the event of a power failure, the product provides an uninterrupted power supply so that the valve can be moved to the safety position. The emergency power supply module is available individually or with an expansion module and can supply several valves. The input and output voltage is 24 V.

#### Ordering information

GEMÜ 1571 emergency power supply module			
Input voltage	Output voltage	Capacity	Item number
24 V	24 V	1700 Ws	88660398
24 V	24 V	13200 Ws	88751062



### GEMÜ 1573

#### Switching power supply unit

The GEMÜ 1573 switching power supply unit converts unstable input voltages from 100 to 240 V AC into a continuous DC voltage. It can be used as an accessory for valves with motorized actuators e. g. GEMÜ eSyLite, eSyStep und eSyDrive and for additional devices with a 24 V DC power supply. Different power levels, output currents and a 48 V DC version for servoDrive actuators are available.

#### Ordering information

GEMÜ 1573 switching power supply unit			
Input voltage	Output voltage	Output current	Item number
100 - 240 V AC	24 V DC	5 A	88660400
		10 A	88660401



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