GEMÜ 710

Pneumatically operated ball valve

Features

- High flow rate
- Choice of various body materials and connection types
- 2/2 and 3/2-way versions available
- Optionally available with control ball

Description

The 2/2 and/or 3/2-way GEMÜ 710 plastic ball valve has a pneumatic actuator, which can either be made from aluminium or plastic. The seat seal is made from PTFE and the O-ring seals can be made from either EPDM or FKM.

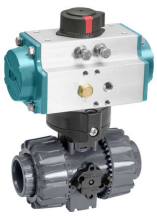
Technical specifications

- **Media temperature:** -20 to 100 °C
- **Ambient temperature:** -10 to 50 °C
- **Operating pressure :** 0 to 16 bar
- **Nominal sizes:** DN 10 to 100
- **Body configurations:** 2/2-way body I Multi-port body
- **Ball configurations:** Control ball I L-port I T-port
- **Connection types:** Flange I Solvent cement socket I Spigot I Threaded connection I Union end
- **Connection standards:** ASTM I BS I DIN I EN I ISO I JIS
- **Body materials:** ABS I PP-H, grey I PVC-C, chlorinated I PVC-U, grey I PVDF
- **Seal materials:** EPDM I FKM
- **Conformities:** EAC

Technical data depends on the respective configuration

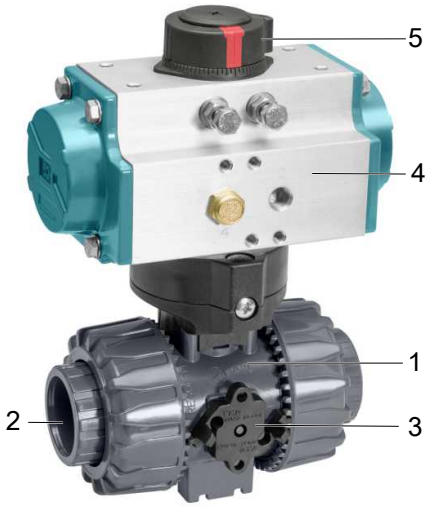
further information
webcode: GW-710

Product line

			
	GEMÜ 710	**GEMÜ 717**	**GEMÜ 723**
Operation			
Manual	-	●	-
Pneumatic	●	-	-
Motorized	-	-	●
Nominal sizes	DN 10 to 100	DN 10 to 100	DN 10 to 100
Media temperature *	-20 to 100 °C	-20 to 100 °C	-20 to 100 °C
Operating pressure *	0 to 16 bar	0 to 16 bar	0 to 16 bar
Connection types			
Flange	●	●	●
Solvent cement socket	●	●	●
Spigot	●	●	●
Threaded connection	●	●	●
Union end	●	●	●

* depending on version and/or operating parameters

Product description



Item	Name	Materials
1	Ball valve body	PVC-U, PVC-C, ABS, PP-H or PVDF
2	Pipe connections	PVC-U, PVC-C, ABS, PP-H or PVDF
3	Anti-twist protection	POM
4	Actuator housing	Aluminium
5	Position indicator	PP
	Ball valve seals	FPM, EPDM
	Ball valve seat seals	PTFE

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.

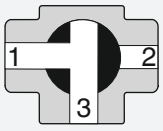
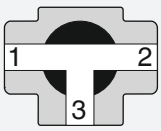
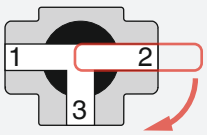
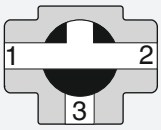
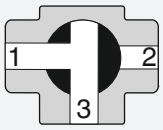
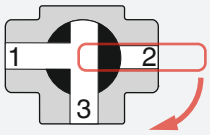
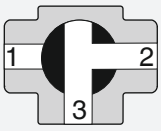
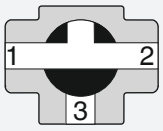
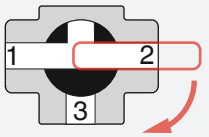
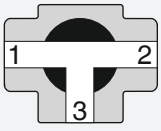
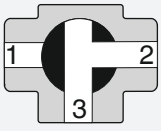
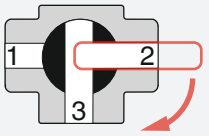
For further information on GEMÜ CONEXO please visit:
www.gemu-group.com/conexo

Ordering

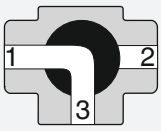
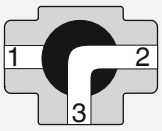
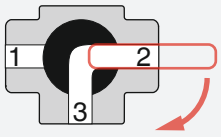
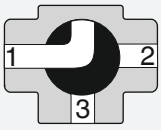
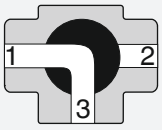
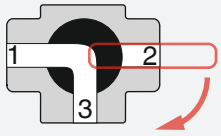
GEMÜ Conexo must be ordered separately with the ordering option "CONEXO".

Port positions

T-port

	CLOSED end position	OPEN end position	Condition as supplied to customer OPEN
Delivery condition			
Code T			
Optional port positions, can be user adjusted			
Code 2			
Code 3			
Code 4			

L-port

	CLOSED end position	OPEN end position	Condition as supplied to customer OPEN
Delivery condition			
Code L			
Optional port positions, can be user adjusted			
Code 6			

Control ball

	Control ball	Scale
Code R		

For 0°- 90° control range, linear control characteristic between port position and percentage flow rate.
NOTE: Ball configuration (R) cannot be retrofitted to standard 2/2-way bodies at a later date.

Availability

2/2-way body (code D)

DN	Connection type code [1]								
	2	4	33	39	3M	3T	78*	7R, 31	7R, 31
	Material code [2]								
	1, 2, 4, 5, 20	1, 2, 5, 20	1, 4	1, 2, 5, 20	1, 2	1	1, 5, 20	1	5
10	X	-	X	-	-	-	-	-	-
15	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X
65	X	X	X	X	X	X	X	X	-
80	X	X	X	X	X	X	X	X	-
100	X	X	X	X	X	X	X	X	-

* Inserts according to valve body material,
special version: PE insert, design code 1187

1) **Connection type**
Code 2: Union end with insert (solvent cement or weld socket) - DIN
Code 4: Union end with flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1
Code 33: Union end with inch insert - BS (socket)
Code 39: Union end with flange ANSI Class 125/150 RF
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
Code 7R: Union end with insert (Rp threaded socket) - DIN
Code 31: Threaded socket NPT

2) **Ball valve material**
Code 1: PVC-U, grey
Code 2: PVC-C
Code 4: ABS
Code 5: PP-H, grey
Code 20: PVDF

Multi-port design (code M)

DN	Connection type code [1]								
	2		4	33	39	3M	3T	78*	7R
	Material code [2]								
	1, 2	5	1, 5	1	1	1, 2	1	1, 5	1, 5
10	X	-	-	-	-	-	-	-	-
15	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X
65	-	-	-	-	-	-	-	-	-
80	-	-	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-	-

* Inserts according to valve body material,
special version: PE insert, design code 1187

1) **Connection type**
Code 2: Union end with insert (solvent cement or weld socket) - DIN
Code 4: Union end with flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1
Code 33: Union end with inch insert - BS (socket)
Code 39: Union end with flange ANSI Class 125/150 RF
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
Code 7R: Union end with insert (Rp threaded socket) - DIN

2) **Ball valve material**
Code 1: PVC-U, grey
Code 2: PVC-C
Code 5: PP-H, grey

Actuator assignment for 2/2-way valves

Metal actuator

Actuator assignment ADA / ASR					
DN	Double acting ADA	Code		Single acting ASR	Code
10	ADA0020UF03F05YS09A	BU02AN0		ASR0020US08 F04YS14/S11A 1	AU02FN0
15	ADA0020UF03F05YS09A	BU02AN0		ASR0020US08 F04YS14/S11A 1	AU02FN0
20	ADA0020UF03F05YS09A	BU02AN0		ASR0020US08 F04YS14/S11A 1	AU02FN0
25	ADA0020UF03F05YS09A	BU02AN0		ASR0020US08 F04YS14/S11A 1	AU02FN0
32	ADA0020UF03F05YS09A	BU02AN0		ASR0040US14 F05YS14/S11A 1	AU04KB0
40	ADA0020UF03F05YS09A	BU02AN0		ASR0040US14 F05YS14/S11A 1	AU04KB0
50	ADA0040UF05YS14/S11A	BU04AB0		ASR0080US14 F05F07YS17/S14A 1	AU08KC0
65	ADA0040UF05YS14/S11A	BU04AB0		ASR0130US14 F05F07YS17/S14A 1	AU13KC0
80	ADA0080UF05F07YS17/S14A	BU08AC0		ASR0130US14 F05F07YS17/S14A 1	AU13KC0
100	ADA0080UF05F07YS17/S14A	BU08AC0		ASR0200US14F07F10YS17/S14A 1	AU20KE0

Actuator assignment DR / SC					
DN	Double acting DR	Code		Single acting SC	Code
10	DR0015U F03F05NS11A 2	DU01AW0		SC0015U 8F03F05NS11A 1	SU01KW0
15	DR0015U F03F05NS11A 2	DU01AW0		SC0015U 8F03F05NS11A 1	SU01KW0
20	DR0015U F03F05NS11A 2	DU01AW0		SC0015U 8F03F05NS11A 1	SU01KW0
25	DR0015U F03F05NS11A 2	DU01AW0		SC0015U 8F03F05NS11A 1	SU01KW0
32	DR0015U F03F05NS11A 2	DU01AW0		SC0030U 6F05F07NS14A 1	SU03KP0
40	DR0015U F03F05NS11A 2	DU01AW0		SC0060U 6F05F07NS14A 1	SU06KP0
50	DR0030U F05F07NS14A 2	DU03AP0		SC0060U 6F05F07NS14A 1	SU06KP0
65	DR0030U F05F07NS14A 2	DU03AP0		SC0100U 6F05F07NS17A 1	SU10KC0
80	DR0060U F05F07NS14A 2	DU06AP0		SC0100U 6F05F07NS17A 1	SU10KC0
100	DR0060U F05F07NS17A 2	DU06AC0		SC0220U 6F07F10NS22A 1	SU22KD0

Actuator assignment GDR / GSR					
DN	Double acting GDR	Code		Single acting GSR	Code
10	GDR0032 F03 S09	HR03AT		GSR0050 SC5F03/05 S11	GR05SW
15	GDR0032 F03 S09	HR03AT		GSR0050 SC5F03/05 S11	GR05SW
20	GDR0032 F03 S09	HR03AT		GSR0050 SC5F03/05 S11	GR05SW
25	GDR0032 F03 S09	HR03AT		GSR0050 SC5F03/05 S11	GR05SW
32	GDR0065 F05/07 S14	HR06AP		GSR0065 SC5F05/07 S14	GR06SP
				GSR0075 SC5F05/07 S14	GR07SP
40	GDR0065 F05/07 S14	HR06AP		GSR0065 SC5F05/07 S14	GR06SP
				GSR0075 SC5F05/07 S14	GR07SP
50	GDR0065 F05/07 S14	HR06AP		GSR0065 SC5F05/07 S14	GR06SP
				GSR0075 SC5F05/07 S14	GR07SP
65	GDR0065 F05/07 S14	HR06AP		GSR0085 SC5F05/07 S14	GR08SP
				GSR0100 SC5F07/10 S14	GR10S8
80	GDR0075 F05/07 S14	HR07AP		GSR0100 SC5F07/10 S14	GR10S8
100	GDR0085 F05/07 S17	HR08AC		GSR0115 SC5F07/10 S17	GR11SE

Plastic actuator

DN	Normally closed	Double acting
	Actuator size code [1]	
15	0	0
20	0	0
25	1	1
32	1	1
40	1	1
50	1	1
65	-	1

1) **Actuator version**
Code 0: GEMÜ actuator, pneumatic, size 0, piston diameter 50 mm
Code 1: GEMÜ actuator, pneumatic, size 1, piston diameter 70 mm

Actuator assignment for multi-port valves

Please contact GEMÜ for the actuator assignment of multi-port valves.

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
Ball valve, plastic, pneumatically operated	710

2 DN	Code
DN 10	10
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
Multi-port design	M

4 Connection type	Code
Union end with insert (solvent cement or weld socket) – DIN	2
Union end with flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1	4
Union end with inch insert – BS (socket)	33
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
Union end with inch insert – ASTM (socket)	3M
Union end with JIS insert (sockets)	3T
Union end with insert (for IR butt welding) – DIN	78
Union end with insert (Rp threaded socket) – DIN	7R
NPT female thread	31

5 Ball valve material	Code
PVC-U, grey	1
PVC-C	2
PVDF	20
ABS	4
PP-H, grey	5

6 Seal material	Code
FKM	4
EPDM	14

7 Control function	Code
Normally closed (NC)	1
Normally open (NO)	2

7 Control function	Code
Double acting (DA)	3

8 Actuator version	Code
Actuator GEMÜ ADA and ASR	
Actuator, pneumatic, single acting, clockwise rotation, spring closing, ASR0020US08F03/05 S09	AU02FN
Actuator, pneumatic, single acting, clockwise rotation, spring closing, ASR0040US14F05 S14S11	AU04KB
Actuator, pneumatic, single acting, clockwise rotation, spring closing, ASR0130US14F05/07S17S14	AU13KC
Actuator, pneumatic, single acting, clockwise rotation, spring closing, ASR0200US14F07/10S17S14	AU20KE
Actuator, pneumatic, double acting, clockwise rotation, ADA0020U F03/05 S09	BU02AN
Actuator, pneumatic, double acting, clockwise rotation, ADA0040U F05 S14S11	BU04AB
Actuator, pneumatic, double acting, clockwise rotation, ADA0080U F05/07S17S14	BU08AC
Actuator GEMÜ DR and SC	
Actuator, pneumatic, double acting, clockwise rotation, DR0015U F03/05 S11	DU01AW
Actuator, pneumatic, double acting, clockwise rotation, DR0030U F05/07 S14	DU03AP
Actuator, pneumatic, double acting, clockwise rotation, DR0060U F05/07 S14	DU06AP
Actuator, pneumatic, single acting, clockwise rotation, spring closing, SC0015U 6F03/05 S11	SU01KW
Actuator, pneumatic, single acting, clockwise rotation, spring closing, SC0030U 6F04 S11	SU03KO
Actuator, pneumatic, single acting, clockwise rotation, spring closing, SC0060U 6F05/07 S14	SU06KP
Actuator, pneumatic, single acting, clockwise rotation, spring closing, SC0100U 6F05/07S17D11	SU10KC
Actuator, pneumatic, single acting, clockwise rotation, spring closing, SC0220U 6F07/10 S22	SU22KD
Actuator GEMÜ GDR and GSR	
Actuator, pneumatic, single acting, clockwise rotation, spring closing, GSR0050 SC5F03/05 S11	GR05SW
Actuator, pneumatic, single acting, clockwise rotation, spring closing, GSR0065 SC5F05/07 S14	GR06SP

8 Actuator version	Code
Actuator, pneumatic, single acting, clockwise rotation, spring closing, GSR0075 SC5F05/07 S14	GR07SP
Actuator, pneumatic, single acting, clockwise rotation, spring closing, GSR0085 SC5F05/07 S14	GR08SP
Actuator, pneumatic, single acting, clockwise rotation, spring closing, GSR0100 SC5F07/10 S17	GR10SE
Actuator, pneumatic, single acting, clockwise rotation, spring closing, GSR0115 SC5F07/10 S17	GR11SE
Actuator, pneumatic, double acting, clockwise rotation, GDR0032 F03 S09	HR03AT
Actuator, pneumatic, double acting, clockwise rotation, GDR0065 F05/07 S14	HR06AP
Actuator, pneumatic, double acting, clockwise rotation, GDR0075 F05/07 S14	HR07AP
Actuator, pneumatic, double acting, clockwise rotation, GDR0085 F05/07 S17	HR08AC
Actuator GEMÜ 9415	
GEMÜ actuator, pneumatic, size 0, piston diameter 50 mm	0
GEMÜ actuator, pneumatic, size 1, piston diameter 70 mm	1

9 Actuator particulars	Code
General industrial version, aluminium housing, anodized coating 25–35 µm, aluminium end caps, powder coated, C-steel shaft + ENP, A2 screws	0

10 Ball config./port position	Code
2/2-way body	
R-port (control ball) for control range of 0°–90° Linear control characteristic between port position and percentage flow rate	R
Multi-port version	
L-port, standard end position "Open", connection 2 and 3 open, L-port, standard end position "Closed", connection 1 and 3 open	L
T-port, standard end position "Open", connection 1, 2 and 3 open, T-port, standard end position "Closed", connection 1 and 3 open	T
T-port, end position "Open", connection 1 and 3 open, T-port, end position "Closed", connection 1 and 2 open	2
T-port, end position "Open", connection 1 and 2 open, T-port, end position "Closed", connection 2 and 3 open	3
T-port, end position "Open", connection 2 and 3 open, T-port, end position "Closed", connection 1, 2 and 3 open	4
L-port, end position "Open", connection 1 and 3 open, L-port, end position "Closed", connection 1 open	6

11 Type of design	Code
Without	
Insert made of PE	1187

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

Order example

Ordering option	Code	Description
1 Type	710	Ball valve, plastic, pneumatically operated
2 DN	15	DN 15
3 Body configuration	M	Multi-port design
4 Connection type	33	Union end with inch insert – BS (socket)
5 Ball valve material	1	PVC-U, grey
6 Seal material	14	EPDM
7 Control function	3	Double acting (DA)
8 Actuator version	BU02AN	Actuator, pneumatic, double acting, clockwise rotation, ADA0020U F03/05 S09
9 Actuator particulars	0	General industrial version, aluminium housing, anodized coating 25–35 µm, aluminium end caps, powder coated, C-steel shaft + ENP, A2 screws
10 Ball config./port position	L	L-port, standard end position "Open", connection 2 and 3 open, L-port, standard end position "Closed", connection 1 and 3 open
11 Type of design		Without
12 CONEXO		Without

Technical data

Medium

Working medium: Corrosive, inert, gaseous and liquid media and steam which have no negative impact on the physical and chemical properties of the body and seal material.

Control medium: Inert gases

Temperature

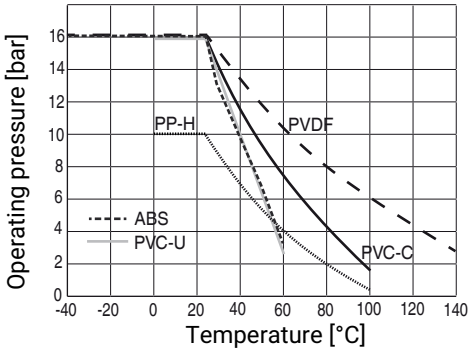
Media temperature: see Pressure / temperature diagram

Seal material: FPM: -15 – 210 °C
EPDM: -20 – 95 °C

Ambient temperature: Valve body ABS: -20 to 60 °C
Valve body PP-H: 5 to 60 °C
Valve body PVC-U, PVC-C: 10 to 50 °C
Valve body PVDF: -5 to 50 °C

Pressure

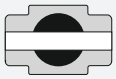
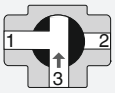
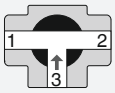
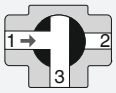
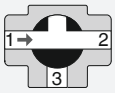
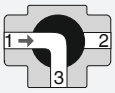
Operating pressure: Pressure/temperature diagram



Pressure/temperature data in accordance with diagram refers to static operating conditions. Strongly fluctuating or fast-changing parameters can lead to a reduction of the service life. Special applications must be talked through with your technical contact person in advance.
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: 2 to 8 bar (depending on version and/or control function)

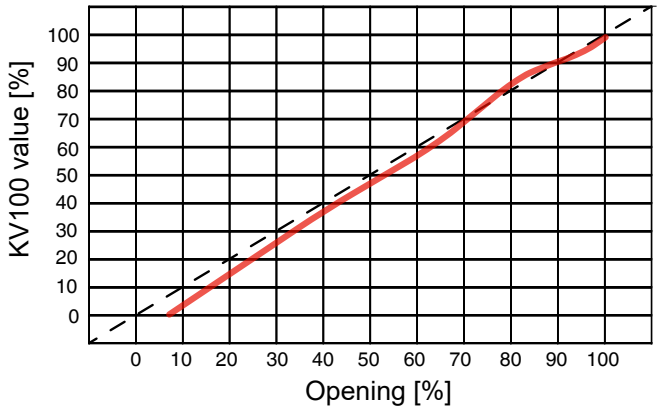
Kv values:

DN	Body configuration						
	2/2-way		Multi-port (code M)				
	(code D)	(code R)	T-port	T-port	T-port	T-port	L-port
							
10	4.8	4.98	2.2	1.5	2.4	4.7	2.9
15	12.0	5.28	3.3	2.1	3.9	11.7	4.4
20	23.1	8.10	8.1	5.7	8.7	22.8	9.0
25	46.2	15.36	12.3	8.4	14.7	45.6	15.9
32	66.0	28.68	23.4	16.2	27.6	63.0	28.5
40	105.0	35.52	28.5	19.8	36.0	102.0	37.2
50	204.0	64.08	54.0	37.2	72.0	192.0	73.2
65	315.0	-	-	-	-	-	-
80	426.0	-	-	-	-	-	-
100	570.0	-	-	-	-	-	-

Kv values in m³/h

Control diagram:

With control ball (code R)



For 0°- 90° control range, linear control characteristic between port position and percentage flow rate.

NOTE: Ball configuration (R) cannot be retrofitted to standard 2/2-way bodies at a later date.

Mechanical data

Torques:

DN	2/2-way code D				Multi-port code M		
	Optional	Standard		Optional	Optional	Standard	
	PS 6	PS 10	PS 16	PS 16	PS 10	PS 10	PS 16
	Material code [1]						
	1, 2, 4, 5, 20	5	1, 2, 20	4	1, 2	5	1, 2
10	-	2.4	3.6	3.0	-	-	-
15	-	2.4	3.6	3.0	2.4	2.4	3.6
20	-	3.6	4.0	4.0	3.6	3.6	4.8
25	-	4.8	6.0	6.0	5.0	5.0	5.4
32	-	7.2	7.2	7.2	7.2	7.2	11.5
40	-	8.6	10.0	10.0	9.6	10.0	14.8
50	-	12.4	16.0	16.0	14.8	14.8	23.3
65	20.0	25.0	30.0	30.0	-	-	-
80	25.0	35.0	45.0	45.0	-	-	-
100	40.0	55.0	65.0	65.0	-	-	-

Torques in Nm

1) **Ball valve material**
Code 1: PVC-U, grey
Code 2: PVC-C
Code 4: ABS
Code 5: PP-H, grey
Code 20: PVDF

Weight:

GEMÜ DR/SC actuator

Type	0015U	0030U	0060U	0100U	0150U	0220U
DR	1.0	1.6	2.7	3.7	5.2	8.0
SC	1.1	1.7	3.1	4.3	6.1	9.3

Weights in kg

GEMÜ ADA/ASR actuator

Type	0020U	0040U	0080U	0130U	0200U
ADA	1.4	2.1	3.0	3.8	5.6
ASR	1.5	2.3	3.7	4.8	7.3

Weights in kg

Actuator type GDR/GSR

Type	0032	0050	0065	0075	0085	0100	0115
GDR	0.5	1.1	1.5	2.6	3.4	5.1	8.0
GSR	-	1.2	1.8	3.2	4.3	6.6	10.6

Weights in kg

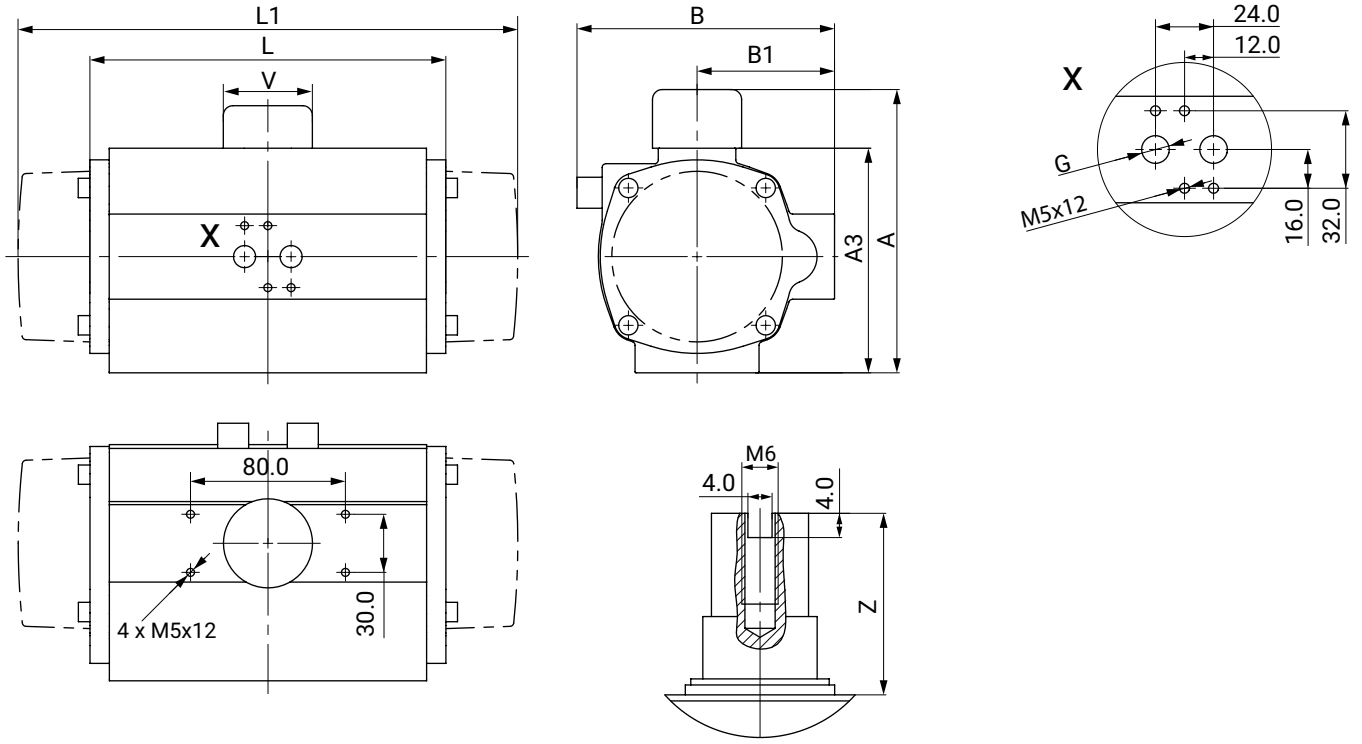
Actuator 9415

Actuator size 0: Control function 1: 435 g
Control function 3: 325 g
Actuator size 1: Control function 1: 1470 g
Control function 3: 1100 g

Dimensions

Actuator dimensions

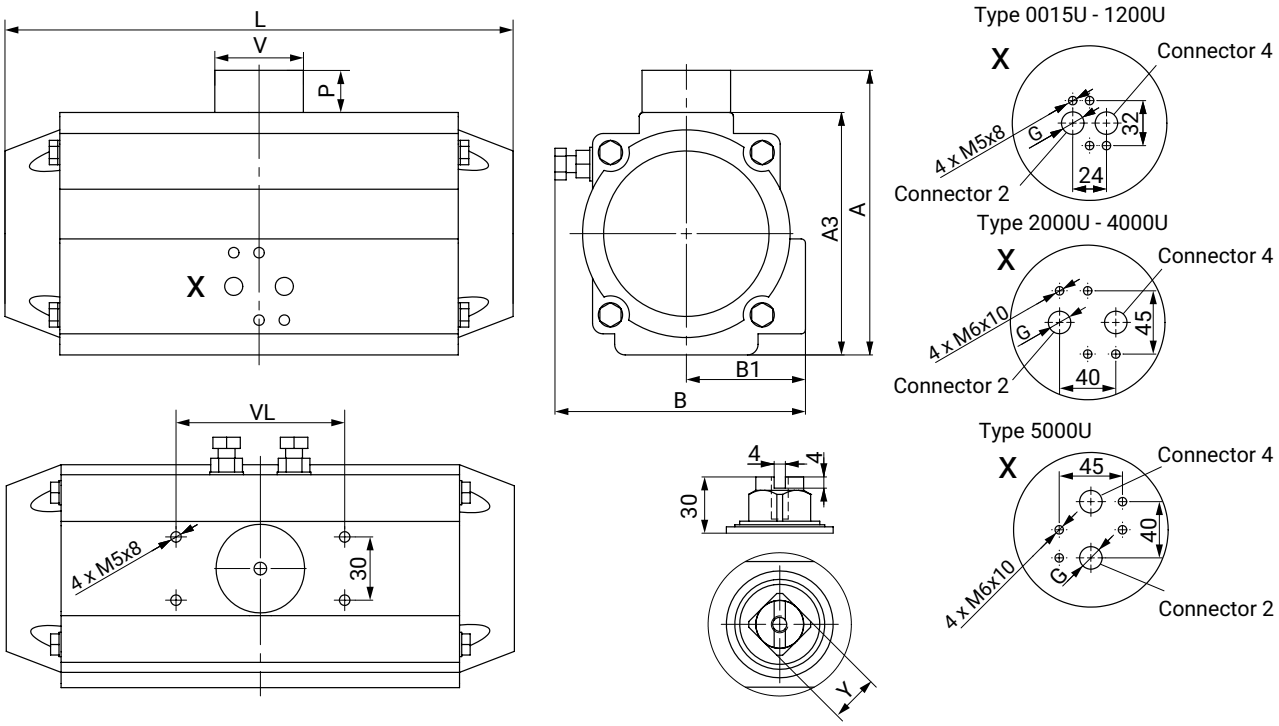
GEMÜ ADA/ASR



Type	A	A3	B	B1	G	L	L1	V	Z
00010	76.0	46.0	56.0	33.0	G1/8"	-	100.0	46.0	30.0
0020U	96.0	66.0	76.0	48.0	G1/4"	145.0	163.0	40.0	30.0
0040U	115.0	85.0	91.0	56.0	G1/4"	158.0	195.0	40.0	30.0
0080U	137.0	107.0	111.0	66.0	G1/4"	177.0	217.0	40.0	30.0
0130U	147.0	117.0	122.0	71.0	G1/4"	196.0	258.0	40.0	30.0
0200U	165.0	135.0	135.5	78.0	G1/4"	225.0	299.0	40.0	30.0

Dimensions in mm

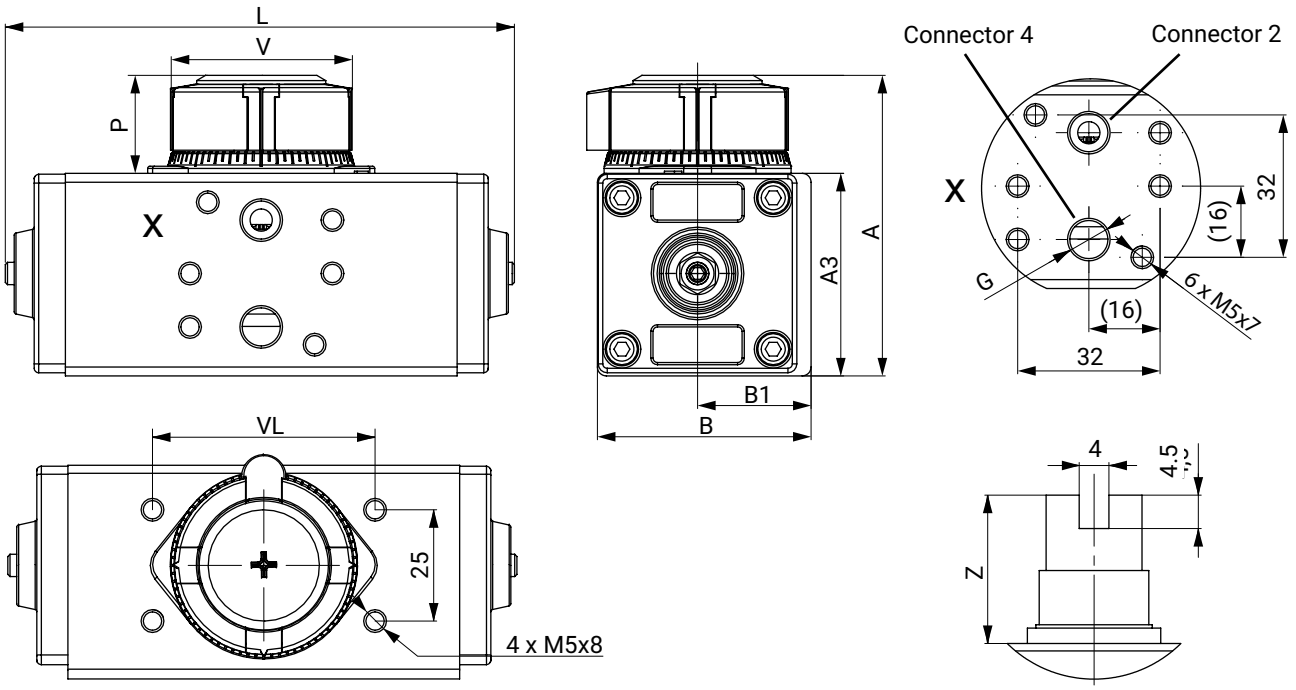
GEMÜ DR/SC



Type	A	A3	B	B1	V	VL	G	P	L	Y
0015U	89.0	69.0	72.0	43.0	42.0	80.0	G1/8"	20.0	136.0	11.0
0030U	105.0	85.0	84.5	48.5	42.0	80.0	G1/8"	20.0	153.5	11.0
0060U	122.0	102.0	93.0	50.5	42.0	80.0	G1/8"	20.0	203.5	17.0
0100U	135.0	115.0	106.0	56.5	42.0	80.0	G1/8"	20.0	241.0	17.0
0150U	147.0	127.0	118.5	63.0	42.0	80.0	G1/4"	20.0	259.0	17.0
0220U	175.0	145.0	136.0	72.0	58.0	80.0	G1/4"	30.0	304.0	27.0

Dimensions in mm

GEMÜ GDR/GSR

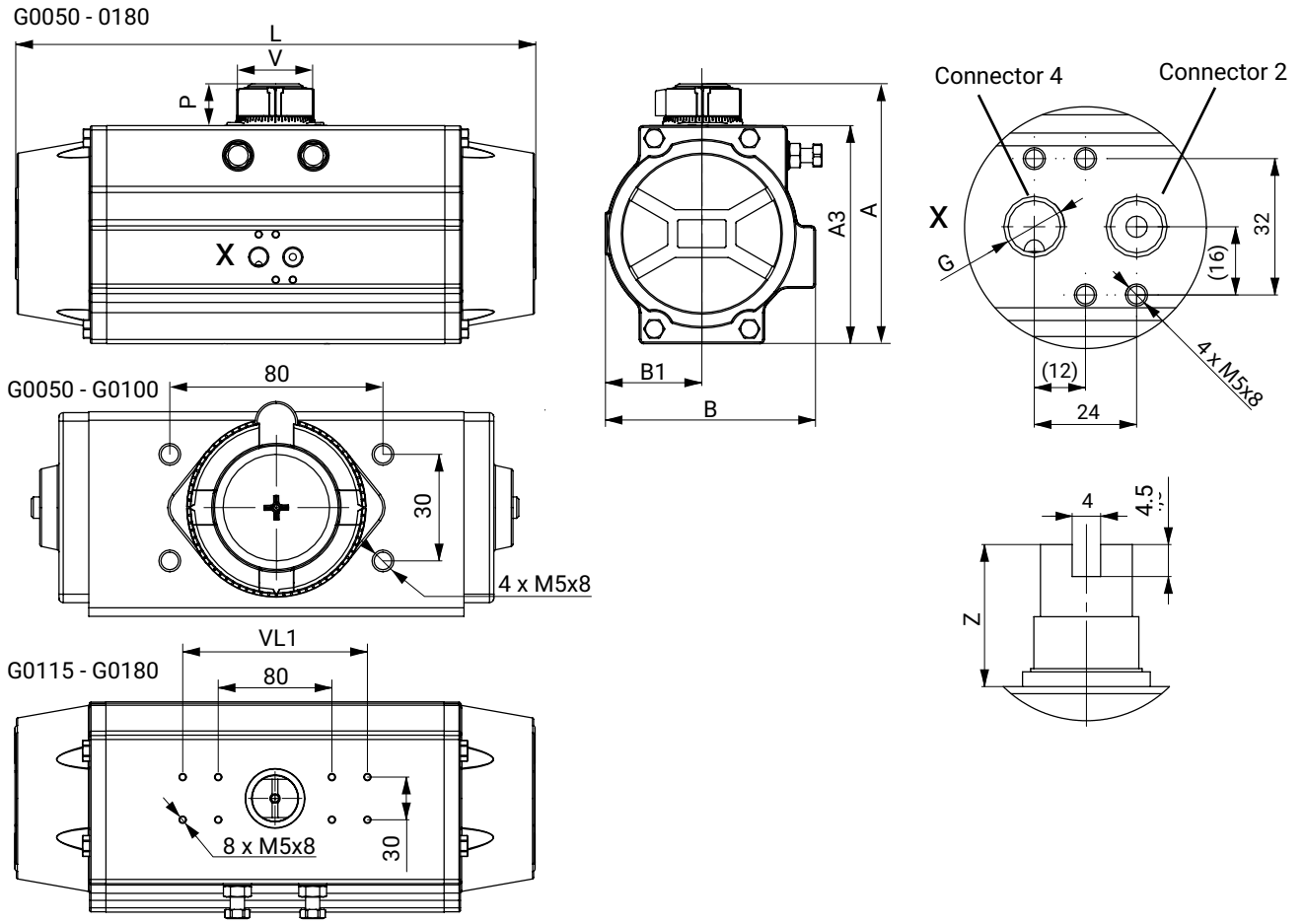


The control air connector (view X) for GDR0032 is not compatible for direct mounting with a Namur pilot valve, or a throttle of type 8500/8506.

Provide the control air connector with external thread fittings and a compressed air hose.

Type	A	A3	B	B1	V	G	P	VL	Z	L
G0032	67.5	45.5	49.0	26.5	40.0	G1/8"	22.0	50.0	20.0	115.0

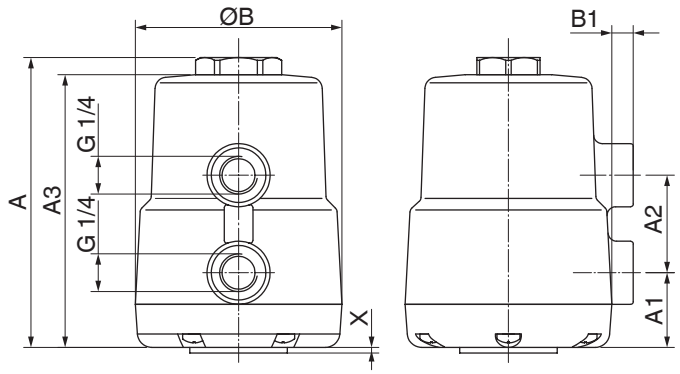
Dimensions in mm



Type	A	A3	B	B1	V	G	P	VL	Z	L	VL1
G0050	92.0	70.0	71.0	30.0	40.0	G1/8"	22.0	80.0	20.0	141.0	-
G0065	102.5	80.5	80.5	35.5	40.0	G1/8"	22.0	80.0	20.0	162.0	-
G0075	119.0	97.0	94.5	42.0	40.0	G1/8"	22.0	80.0	20.0	208.0	-
G0115	174.0	142.0	137.0	64.0	65.0	G1/4"	32.0	80.0	30.0	337.0	130.0

Dimensions in mm

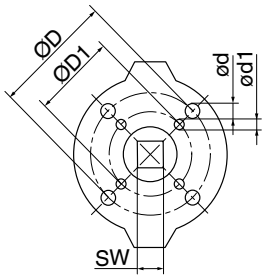
GEMÜ 9415

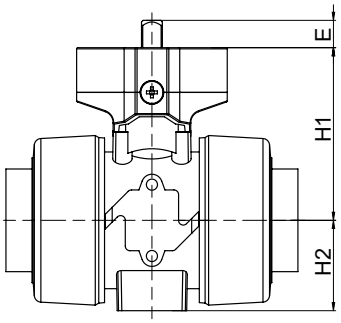


Actuator size	A	A1	A2	A3	ØB	B1	X
0	112.0	37.0	34.0	106.0	72.0	7.0	2.0
1	177.0	41.0	65.0	171.0	97.0	3.0	2.0

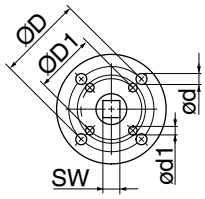
Dimensions in mm

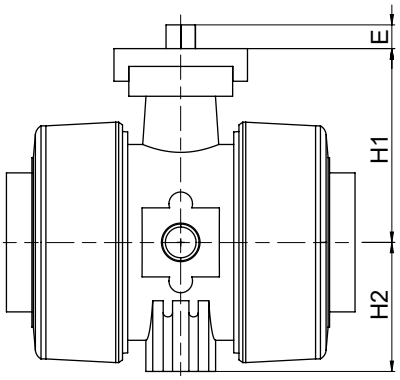
Connection flange





DN 10 - 50





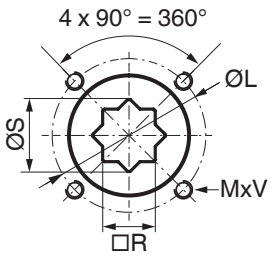
DN 65 - 100

DN	SW	E	H1	H2	ØD x ød	ØD1 x ød1
10	11.0	12.0	58.0	29.0	F03 x 5.5	F04 x 5.5
15	11.0	12.0	58.0	29.0	F03 x 5.5	F04 x 5.5
20	11.0	12.0	69.0	35.0	F03 x 5.5	F05 x 6.5
25	11.0	12.0	74.0	39.0	F03 x 5.5	F05 x 6.5
32	14.0	16.0	91.0	46.0	F05 x 6.5	F07 x 8.5
40	14.0	16.0	97.0	52.0	F05 x 6.5	F07 x 8.5
50	14.0	16.0	114.0	62.0	F05 x 6.5	F07 x 8.5
65	14.0	16.0	131.0	87.0	F07 x 9.0	F05 x 6.5
80	14.0	16.0	131.0	105.0	F07 x 9.0	F05 x 6.5
100	17.0	19.0	149.0	129.0	F07 x 9.0	F05 x 6.5

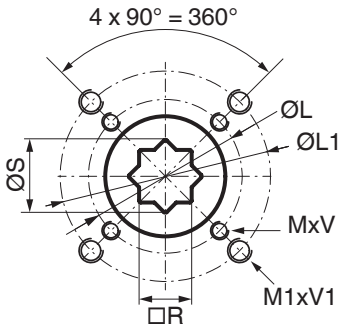
Dimensions in mm

Connection dimensions

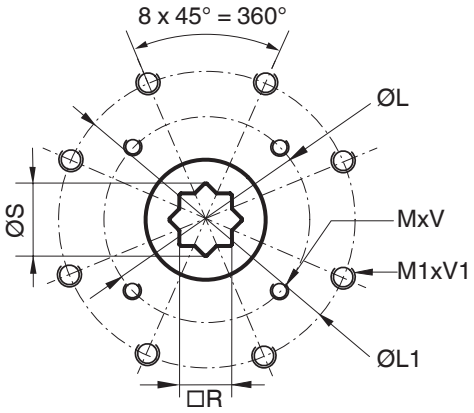
00010, 0020U, 0040U, 0500U, 1750U, 2100U, 2500U



0020U, 0080U, 0130U, 0300U, 0850U, 1200U



4000U



ISO 5211

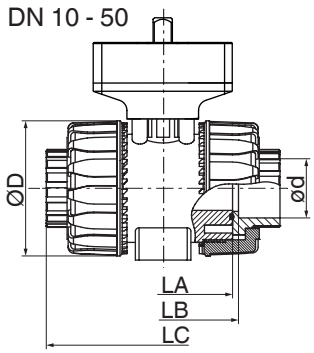
Type	□R	ØS	ISO 5211	ØL	M x V	ISO 5211	ØL1	M1 x V1
00010	9.0	12.1	F03	36.0	M5 x 8.0	-	-	-
	9.0	12.1	F04	42.0	M5 x 8.0	-	-	-
0020U	9.0	12.5	F03	36.0	M5 x 8.0	F05	50.0	M6 x 10.0
	14.0	18.1	F04	42.0	M5 x 8.0	-	-	-
	14.0	18.1	F05	50.0	M6 x 10.0	-	-	-
0040U	14.0	18.1	F04	42.0	M5 x 10.0	-	-	-
	14.0	18.1	F05	50.0	M6 x 10.0	-	-	-
0080U	17.0	22.5	F05	50.0	M6 x 10.0	F07	70.0	M8 x 16.0
0130U	17.0	22.5	F05	50.0	M6 x 10.0	F07	70.0	M8 x 16.0
0200U	17.0	22.5	F07	70.0	M8 x 16.0	F10	102.0	M10 x 16.0
0300U	22.0	28.5	F07	70.0	M8 x 16.0	F10	102.0	M10 x 16.0

Dimensions in mm

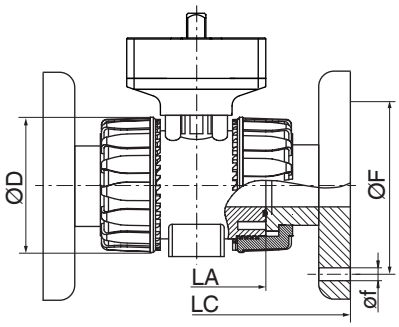
Body dimensions

Valve body material PVC-U (code 1), body configuration D

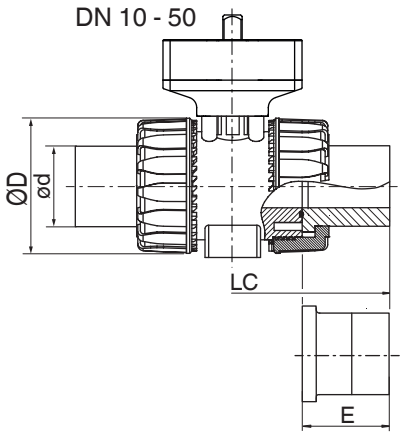
Socket
Connection type code 2, 31, 33, 3M, 3T, 7R



Flange
Connection type code 4, 39



Butt weld spigot
Connection type code 78, 78*



DN	NPS	ød	ØD	A	LA	Connection type code [1]							
						4	39	78*	4	39	4	39	78*
						LC			øf		ØF		E
15	1/2"	20.0	54.0	40.0	65.0	130.0	143.0	175.0	14.0	15.9	65.0	60.3	55.0
20	3/4"	25.0	65.0	49.0	70.0	150.0	172.0	210.0	14.0	15.9	75.0	69.9	70.0
25	1"	32.0	73.0	49.0	78.0	160.0	187.0	226.0	14.0	15.9	85.0	79.4	74.0
32	1 ¼"	40.0	86.0	64.0	88.0	180.0	190.0	243.0	18.0	15.9	100.0	88.9	78.0
40	1 ½"	50.0	98.0	64.0	93.0	200.0	212.0	261.0	18.0	15.9	110.0	98.4	84.0
50	2"	63.0	122.0	76.0	111.0	230.0	234.0	293.0	18.0	19.1	125.0	120.7	91.0
65	2 ½"	75.0	164.0	175.0	133.0	290.0	290.0	356.0	17.0	18.0	145.0	139.7	111.0
80	3"	90.0	203.0	272.0	149.0	310.0	310.0	390.0	17.0	18.0	160.0	152.4	118.0
100	4"	110.0	238.0	330.0	167.0	350.0	350.0	431.0	17.0	18.0	180.0	190.5	132.0

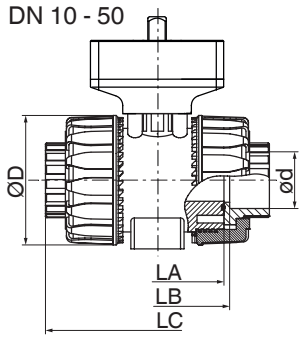
Dimensions in mm

* Inserts according to valve body material,
special version: PE insert, design code 1187

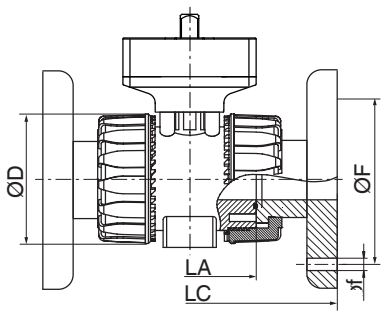
1) **Connection type**
Code 4: Union end with flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1
Code 39: Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D
Code 78: Union end with insert (for IR butt welding) – DIN

Valve body material PVC-U (code 1), body configuration D

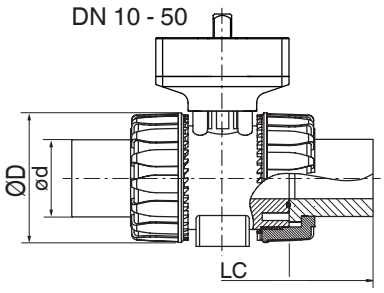
Socket
Connection type code 2, 31, 33, 3M, 3T, 7R



Flange
Connection type code 4, 39



Butt weld spigot
Connection type code 78, 78*



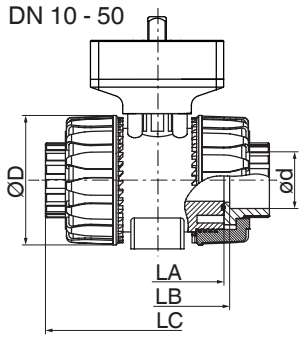
DN	NPS	ød	ØD	A	LA	Connection type code [1]										
						3M	2	33	3M	3T	7R	2	33	3M	3T	7R
						ød	LB					LC				
10	3/8“	16.0	54.0	40.0	65.0	-	75.0	74.0	-	-	-	103.0	103.0	-	-	-
15	1/2“	20.0	54.0	40.0	65.0	21.5	71.0	70.0	72.0	71.0	80.0	103.0	103.0	117.0	131.0	110.0
20	3/4“	25.0	65.0	49.0	70.0	26.9	77.0	77.0	78.0	77.0	83.5	115.0	115.0	129.0	147.0	116.0
25	1“	32.0	73.0	49.0	78.0	33.7	84.0	83.0	84.6	84.0	96.0	128.0	128.0	142.0	164.0	134.0
32	1 ¼“	40.0	86.0	64.0	88.0	42.4	94.0	94.0	98.0	94.0	110.0	146.0	146.0	162.0	182.0	153.0
40	1 ½“	50.0	98.0	64.0	93.0	48.4	102.0	104.0	102.0	102.0	113.0	164.0	164.0	172.0	212.0	156.0
50	2“	63.0	122.0	76.0	111.0	60.5	123.0	127.0	122.6	122.0	134.5	199.0	199.0	199.0	248.0	186.0
65	2 ½“	75.0	164.0	175.0	133.0	75.3	147.0	147.0	146.0	145.0	174.5	235.0	235.0	235.0	267.0	235.0
80	3“	90.0	203.0	272.0	149.0	89.1	168.0	168.0	174.0	165.0	203.5	270.0	270.0	270.0	294.0	270.0
100	4“	110.0	238.0	330.0	167.0	114.5	186.0	182.0	193.0	202.0	229.5	308.0	308.0	308.0	370.0	308.0

Dimensions in mm

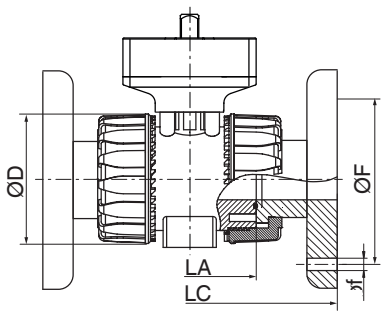
1) **Connection type**
Code 2: Union end with insert (solvent cement or weld socket) – DIN
Code 33: Union end with inch insert – BS (socket)
Code 3M: Union end with inch insert – ASTM (socket)
Code 3T: Union end with JIS insert (sockets)
Code 7R: Union end with insert (Rp threaded socket) – DIN

Valve body material PVC-C (code 2), body configuration D

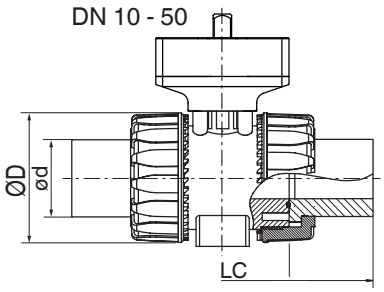
Socket
Connection type code 2, 31, 33, 3M, 3T, 7R



Flange
Connection type code 4, 39



Butt weld spigot
Connection type code 78, 78*



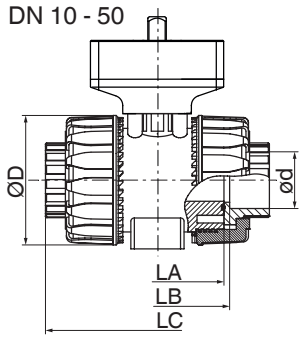
DN	NPS	ød	øD	A	LA	Connection type code [1]										
						3M	2	3M	2	4	39	3M	4	39	4	39
						ød	LB		LC				øf		ØF	
10	3/8“	16.0	54.0	40.0	65.0	-	75.0	-	103.0	-	-	-	-	-	-	-
15	1/2“	20.0	54.0	40.0	65.0	21.5	71.0	72.0	103.0	130.0	143.0	117.0	14.0	15.9	65.0	60.3
20	3/4“	25.0	65.0	49.0	70.0	26.9	77.0	78.0	115.0	150.0	172.0	129.0	14.0	15.9	75.0	69.9
25	1“	32.0	73.0	49.0	78.0	33.7	84.0	84.6	128.0	160.0	187.0	142.0	14.0	15.9	85.0	79.4
32	1 ¼“	40.0	86.0	64.0	88.0	42.4	94.0	98.0	146.0	180.0	190.0	162.0	18.0	15.9	100.0	88.9
40	1 ½“	50.0	98.0	64.0	93.0	48.4	102.0	102.0	164.0	200.0	212.0	172.0	18.0	15.9	110.0	98.4
50	2“	63.0	122.0	76.0	111.0	60.5	123.0	122.6	199.0	230.0	234.0	199.0	18.0	19.1	125.0	120.7
65	2 ½“	75.0	164.0	175.0	133.0	75.3	147.0	146.0	235.0	290.0	290.0	235.0	17.0	18.0	145.0	139.7
80	3“	90.0	203.0	272.0	149.0	89.1	168.0	174.0	270.0	310.0	310.0	270.0	17.0	18.0	160.0	152.4
100	4“	110.0	238.0	330.0	167.0	114.5	186.0	193.0	308.0	350.0	350.0	308.0	17.0	18.0	180.0	190.5

Dimensions in mm

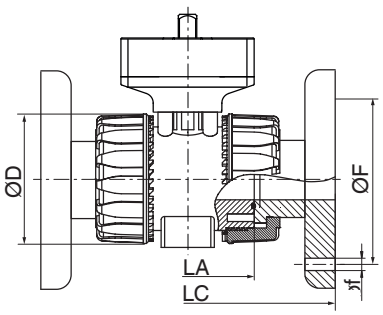
1) **Connection type**
Code 2: Union end with insert (solvent cement or weld socket) – DIN
Code 4: Union end with flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1
Code 39: Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D
Code 3M: Union end with inch insert – ASTM (socket)

Valve body material ABS (code 4), body configuration D

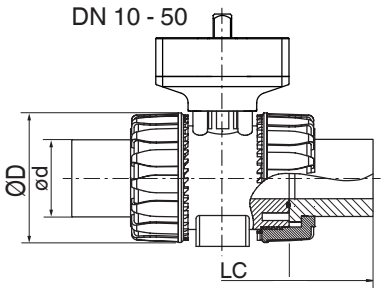
Socket
Connection type code 2, 31, 33, 3M, 3T, 7R



Flange
Connection type code 4, 39



Butt weld spigot
Connection type code 78, 78*



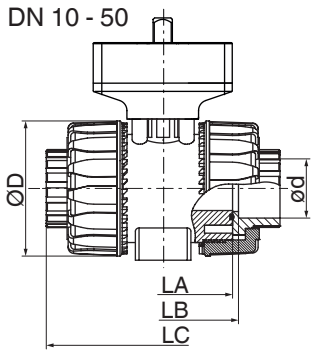
DN	NPS	ød	øD	A	LA	H	Connection type code [1]				
							2	7R	33	2, 33	7R
							LB			LC	
10	3/8"	15.0	55.0	40.0	65.0	49.0	75.0	-	75.0	103.0	-
15	1/2“	20.0	55.0	40.0	65.0	49.0	71.0	80.0	71.0	103.0	110.0
20	3/4“	25.0	66.0	49.0	70.0	59.0	77.0	83.4	77.0	115.0	116.0
25	1“	32.0	75.0	49.0	78.0	66.0	84.0	95.8	84.0	128.0	134.0
32	1 ¼“	40.0	87.0	64.0	88.0	75.0	94.0	110.2	94.0	146.0	153.0
40	1 ½“	50.0	100.0	64.0	93.0	87.0	102.0	113.2	102.0	164.0	156.0
50	2“	63.0	122.0	76.0	111.0	101.0	123.0	134.6	123.0	199.0	186.0
65	2 ½“	75.0	164.0	175.0	133.0	164.0	147.0	-	147.0	235.0	-
80	3“	90.0	203.0	272.0	149.0	177.0	168.0	-	168.0	270.0	-
100	4“	110.0	238.0	330.0	167.0	195.0	186.0	-	186.0	308.0	-

Dimensions in mm

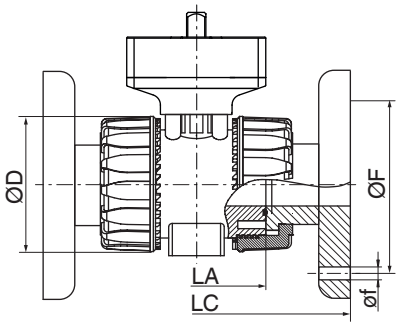
1) **Connection type**
Code 2: Union end with insert (solvent cement or weld socket) – DIN
Code 33: Union end with inch insert – BS (socket)
Code 7R: Union end with insert (Rp threaded socket) – DIN

Valve body material PP-H (code 5), body configuration D

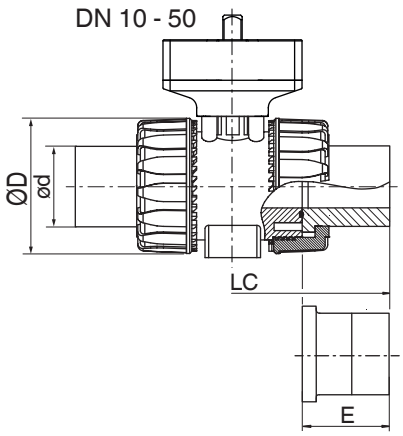
Socket
Connection type code 2, 31, 33, 3M, 3T, 7R



Flange
Connection type code 4, 39



Butt weld spigot
Connection type code 78, 78*



DN	NPS	ød	øD	A	LA	Connection type code [1]											
						2	7R	2	4	39	78/78 *	7R	78/78 *	4	39	4	39
						LB		LC					E	øf		ØF	
10	3/8"	16.0	54.0	40.0	65.0	75.0	-	102.0	-	-	-	-	-	-	-	-	-
15	1/2"	20.0	54.0	40.0	65.0	73.0	80.0	102.0	130.0	143.0	175.0	110.0	55.0	14.0	15.9	65.0	60.3
20	3/4"	25.0	65.0	49.0	70.0	82.0	83.0	114.0	150.0	172.0	210.0	116.0	70.0	14.0	15.9	75.0	69.9
25	1"	32.0	73.0	49.0	78.0	90.0	96.0	126.0	160.0	187.0	226.0	134.0	77.0	14.0	15.9	85.0	79.4
32	1 ¼"	40.0	86.0	64.0	88.0	100.0	110.0	141.0	180.0	190.0	243.0	153.0	78.0	18.0	15.9	100.0	88.9
40	1 ½"	50.0	98.0	64.0	93.0	117.0	113.0	164.0	200.0	212.0	261.0	156.0	84.0	18.0	15.9	110.0	98.4
50	2"	63.0	122.0	76.0	111.0	144.0	134.0	199.0	230.0	234.0	293.0	186.0	91.0	18.0	15.9	125.0	120.7
65	2 ½"	75.0	164.0	175.0	133.0	153.0	-	213.0	290.0	290.0	356.0	-	111.0	17.0	18.0	145.0	139.7
80	3"	90.0	203.0	272.0	149.0	173.0	-	239.0	310.0	310.0	390.0	-	118.0	17.0	18.0	160.0	152.4
100	4"	110.0	238.0	330.0	167.0	199.0	-	268.0	350.0	350.0	431.0	-	132.0	17.0	18.0	180.0	190.5

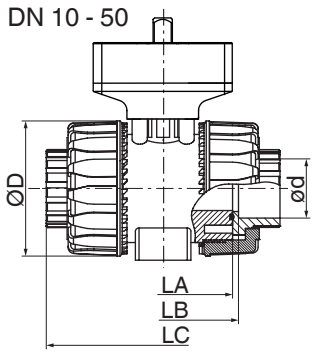
Dimensions in mm

* Inserts according to valve body material,
special version: PE insert, design code 1187

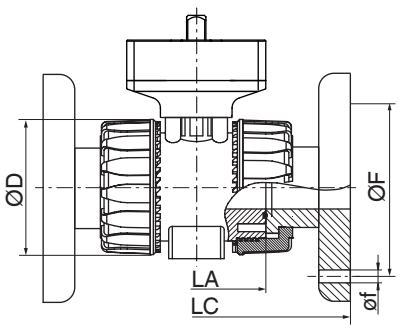
1) **Connection type**
Code 2: Union end with insert (solvent cement or weld socket) – DIN
Code 4: Union end with flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1
Code 39: Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D
Code 78: Union end with insert (for IR butt welding) – DIN
Code 7R: Union end with insert (Rp threaded socket) – DIN

Valve body material PVDF (code 20), body configuration D

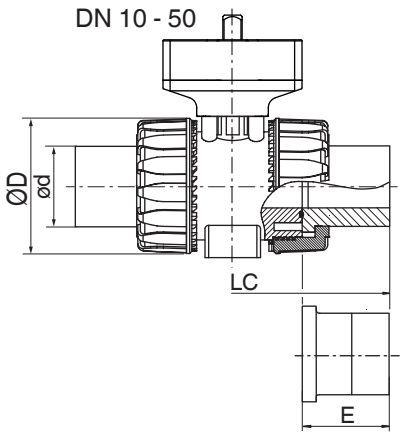
Socket
Connection type code 2, 31, 33, 3M, 3T, 7R



Flange
Connection type code 4, 39



Butt weld spigot
Connection type code 78, 78*



DN	NPS	ød	øD	A	LA	Connection type code [1]								
						2	2	4	78	4	39	4	39	78*
						LB	LC			øf		ØF		E
10	3/8“	16.0	54.0	40.0	65.0	74.5	102.0	-	-	-	-	-	-	-
15	1/2“	20.0	54.0	40.0	65.0	73.0	102.0	130.0	124.0	14.0	15.9	65.0	60.5	30.0
20	3/4“	25.0	65.0	49.0	70.0	82.0	114.0	150.0	144.0	14.0	15.9	75.0	70.0	37.0
25	1“	32.0	73.0	49.0	78.0	90.0	126.0	160.0	154.0	14.0	15.9	85.0	79.5	39.5
32	1 ¼“	40.0	86.0	64.0	88.0	100.0	141.0	180.0	174.0	18.0	15.9	100.0	89.0	44.5
40	1 ½“	50.0	98.0	64.0	93.0	117.0	164.0	200.0	194.0	18.0	15.9	110.0	98.5	51.5
50	2“	63.0	122.0	76.0	111.0	144.0	199.0	230.0	224.0	18.0	19.1	134.0	121.0	58.0
65	2 ½“	75.0	164.0	175.0	133.0	147.0	235.0	290.0	355.0	18.0	18.0	145.0	140.0	110.5
80	3“	90.0	203.0	272.0	149.0	173.0	239.0	310.0	389.0	18.0	18.0	160.0	152.5	118.5
100	4“	110.0	238.0	330.0	167.0	186.0	308.0	350.0	427.0	18.0	18.0	180.0	190.5	130.5

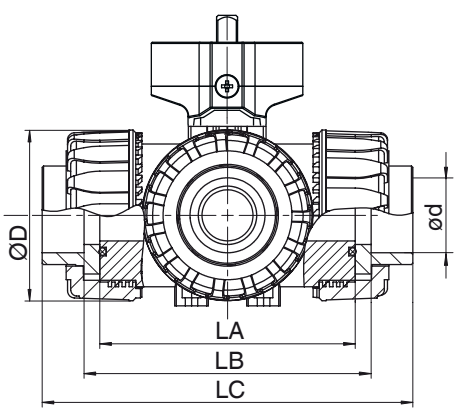
Dimensions in mm

* Inserts according to valve body material,
special version: PE insert, design code 1187

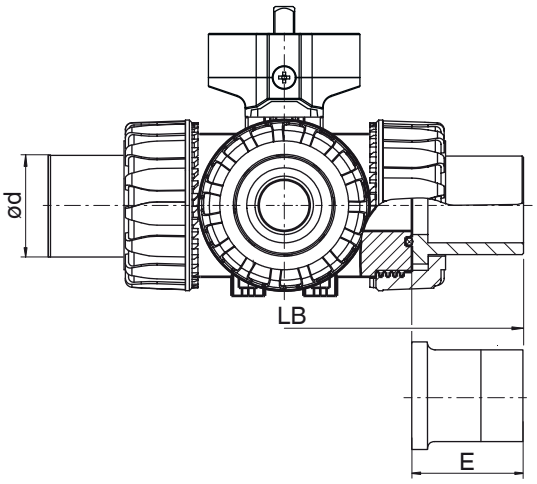
1) **Connection type**
Code 2: Union end with insert (solvent cement or weld socket) – DIN
Code 4: Union end with flange EN 1092, PN 10, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1
Code 39: Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D
Code 78: Union end with insert (for IR butt welding) – DIN

Valve body material PVC-U (code 1), body configuration M

Connection type code 2, 33, 3M, 3T, 7R



Connection type code 78, 78*



DN	NPS	ød	ØD	A	LA	Connection type code [1]											
						3M	2	33	3M	3T	7R	2, 33	3M	3T	7R	78*	78*
						ød	LB					LC					E
10	3/8“	16.0	54.0	40.0	80.0	-	90.0	-	-	-	-	118.0	-	-	-	-	-
15	1/2“	20.0	54.0	40.0	80.0	21.5	86.0	85.0	87.2	86.0	95.0	118.0	132.2	146.0	125.0	190.0	55.0
20	3/4“	25.0	65.0	49.0	100.0	26.9	107.0	106.8	108.2	107.0	114.0	145.0	159.2	177.0	146.0	240.0	70.0
25	1“	32.0	73.0	49.0	110.0	33.7	116.0	115.0	116.6	116.0	129.0	160.0	174.0	196.0	166.0	258.0	74.0
32	1 ¼“	40.0	86.0	64.0	131.0	42.4	136.5	136.6	141.0	137.0	151.0	188.5	205.0	225.0	195.5	287.0	78.0
40	1 ½“	50.0	98.0	64.0	148.0	48.4	157.0	159.0	157.6	157.2	166.0	219.0	227.6	267.2	211.0	316.0	84.0
50	2“	63.0	122.0	76.0	179.0	60.5	190.5	194.2	190.6	190.0	199.0	266.5	267.0	316.0	253.5	361.0	91.0

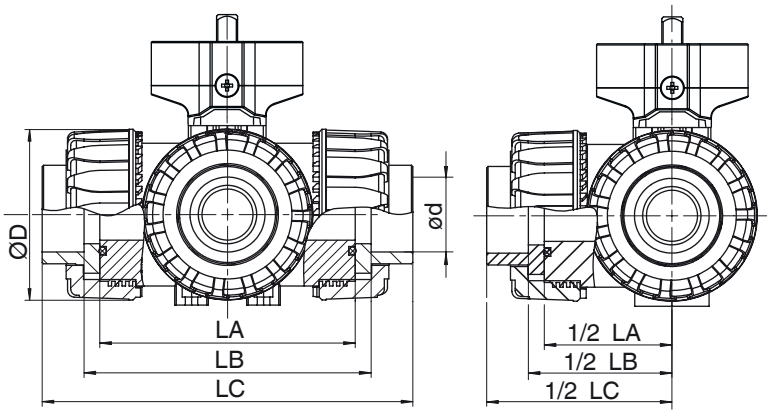
Dimensions in mm

* Inserts according to valve body material,
special version: PE insert, design code 1187

1) **Connection type**
Code 2: Union end with insert (solvent cement or weld 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 (sockets)
Code 78: Union end with insert (for IR butt welding) – DIN
Code 7R: Union end with insert (Rp threaded socket) – DIN

Valve body material PVC-C (code 2), body configuration M

Connection type code 2, 33, 3M, 3T, 7R



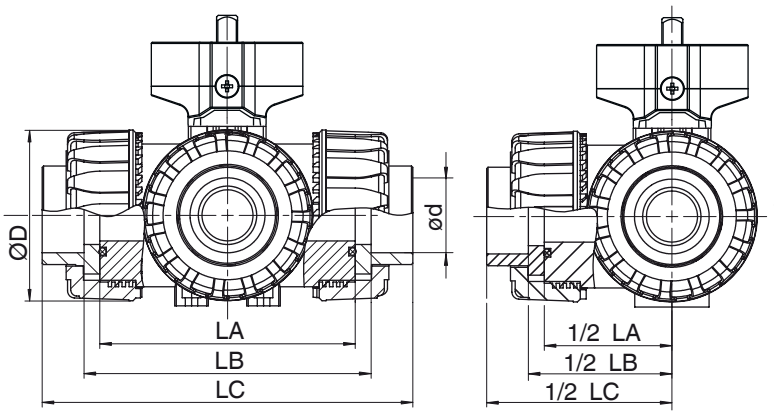
DN	NPS	ØD	A	LA	Connection type code [1]					
					2	3M	2	3M	2	3M
					ød		LB		LC	
10	3/8“	54.0	40.0	80.0	16.0	-	90.0	-	118.0	-
15	1/2“	54.0	40.0	80.0	20.0	21.5	86.0	87.2	118.0	132.2
20	3/4“	65.0	49.0	100.0	25.0	26.9	107.0	108.2	145.0	159.2
25	1“	73.0	49.0	110.0	32.0	33.7	116.0	116.6	160.0	174.0
32	1 ¼“	86.0	64.0	131.0	40.0	42.4	136.5	141.0	188.5	205.0
40	1 ½“	98.0	64.0	148.0	50.0	48.4	157.0	157.6	219.0	227.6
50	2“	122.0	76.0	179.0	63.0	60.5	190.5	190.6	266.5	267.0

Dimensions in mm

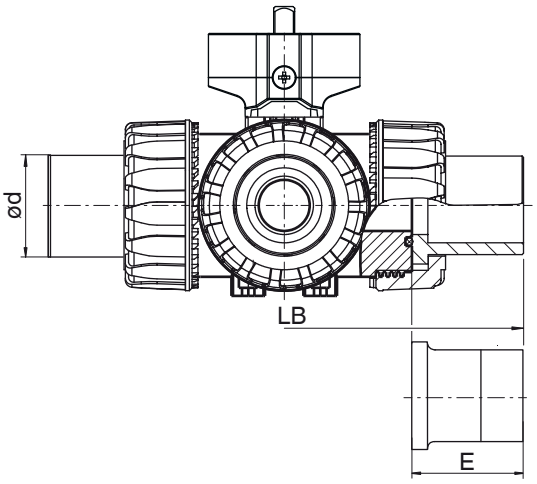
1) **Connection type**
Code 2: Union end with insert (solvent cement or weld socket) – DIN
Code 3M: Union end with inch insert – ASTM (socket)

Valve body material PP-H (code 5), body configuration M

Connection type code 2, 33, 3M, 3T, 7R



Connection type code 78, 78*



DN	NPS	ød	ØD	A	LA	Connection type code [1]					
						2	7R	2	7R	78, 78*	78, 78*
						LB 1		LC			E
15	1/2“	20.0	54.0	40.0	80.0	88.0	87.0	117.0	117.0	190.0	55.0
20	3/4“	25.0	65.0	49.0	100.0	112.0	114.0	144.0	143.0	240.0	70.0
25	1“	32.0	69.5	49.0	110.0	122.0	120.0	158.0	157.0	258.0	74.0
32	1 ¼“	40.0	82.5	64.0	131.0	142.5	140.0	183.5	184.5	287.0	78.0
40	1 ½“	50.0	89.0	64.0	148.0	172.0	172.0	216.0	217.0	316.0	84.0
50	2“	63.0	108.0	76.0	179.0	211.5	211.0	266.5	265.5	361.0	91.0

Dimensions in mm

1) **Connection type**
Code 2: Union end with insert (solvent cement or weld socket) – DIN
Code 78: Union end with insert (for IR butt welding) – DIN
Code 7R: Union end with insert (Rp threaded socket) – DIN

Certificates

Certificate	Standard	Item number
2.2 Supplier's certificate of compliance with the order	EN 10204	88363493
3.1 Material analysis	EN 10204	88363494

Accessories

GEMÜ LST

Electrical position indicators for quarter turn actuators

The GEMÜ LS series electrical position indicators are used to feed back and verify the position of quarter turn valves. Depending on the version, they have either one or two mechanical microswitches or 2-wire or 3-wire proximity switches.

GEMÜ LSF

Inductive dual sensor for quarter turn valves

The GEMÜ LSF inductive dual sensor is suitable for mounting to manually and pneumatically operated quarter turn valves. It is also fitted with an optical position indicator for visual confirmation of position.

GEMÜ LSR

Electrical position indicators for quarter turn actuators

The GEMÜ LS series electrical position indicators are used to feed back and verify the position of quarter turn valves. Depending on the version, they have either one or two mechanical microswitches or 2-wire or 3-wire proximity switches.

GEMÜ 0324

Electrically operated pilot solenoid valve

The GEMÜ 0324 directly controlled 3/2-way pilot solenoid valve is designed for direct mounting to pneumatically operated valves. The body is made of plastic. The coil is plastic encapsulated.

GEMÜ 8506

Electrically operated pilot solenoid valve

The GEMÜ 8506 servo assisted 3/2 or 5/2-way pilot solenoid valve is indirectly controlled. The body is made of aluminium. The plastic encapsulated coil is detachable.

GEMÜ 717 MPL

Mounting plate

Only for 2-way ball valves. The spacer plate kit includes a spacer plate (PP, glass fibre reinforced), screws (stainless steel), threaded inserts (brass). For the nominal sizes DN 65 - 100, the mounting plate is integrated into the ball valve.

Nominal size	Item number	Designation	Order designation
DN 10 - 25	88290237	Threaded insert M4 x 6	717 25MPL
DN 32 - 50	88290238	Threaded insert M6 x 10	717 50MPL

GEMÜ 710 SMK

Mounting kit for ball valve 710, 717, 723

The mounting kit can be used to mount electric or pneumatic actuators on the ball valve.

Nominal size	Item number	Order description
DN 10 - 15	88353335	710 15SMK
DN 20	88351044	710 20SMK
DN 25	88353770	710 25SMK
DN 32	88353388	710 32SMK
DN 40	88353778	710 40SMK
DN 50	88353779	710 50SMK
DN 65 - 100	88441143	710 100SMK

GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Fritz-Müller-Straße 6-8, 74653 Ingelfingen-Criesbach, Germany
Phone +49 (0) 7940 1230 · info@gemue.de
www.gemu-group.com