GEMÜ 717

Manually operated ball valve

Features

- High flow rates
- Low weight
- Choice of various body materials and connection types
- Union nut with integrated spin-lock
- 2/2 and 3/2-way versions available
- Optionally available with control ball

Description

The GEMÜ 717 2/2 or 3/2-way plastic ball valve has an ergonomically designed hand lever and is manually operated. 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:** ANSI I BS I DIN I EN I ISO I JIS I NPT
- **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-717

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	Hand lever	HIPVC
	Ball valve seals	FPM, EPDM
	Ball valve seat seals	PTFE

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

Hand lever

DN	Manually operated (code 0)	Manually operated, lockable (code L)
10 - 50	X	X
65 - 100	-	X

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	4, 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

Control ball only available for ball valves in PVC-U (code 1), PVDF (code 20) and PP-H (code 5) in nominal sizes DN 10 to 50.

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

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, manually operated	717

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 version	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
Union end with flange ANSI Class 125/150 RF	39
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
Union end with insert (Rp threaded socket) - DIN	7R
Threaded socket NPT	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
Manually operated	0
Manually operated, hand lever, lockable	L

8 Ball config./port position	Code
2/2-way body	
R ball (control ball) for 0°- 90° control range 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

9 Type of design	Code
Without	
Insert in PE	1187

Order example

Ordering option	Code	Description
1 Type	717	Ball valve, plastic, manually operated
2 DN	15	DN 15
3 Body configuration	M	Multi-port version
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	0	Manually operated
8 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
9 Type of design		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.

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

Data for extended temperature ranges on request. Please note that the ambient temperature and media temperature generate a combined temperature at the valve body which must not exceed the above values.

Kv values:

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:

DN	Connection (code)									
	2				4				7R, 31	
	Material (code)									
	1	2	5	20	1	2	5	20	1	5
10	215	234	150	291	-	-	-	-	-	-
15	205	223	145	272	375	481	387	547	210	145
20	330	358	218	445	590	663	504	772	335	220
25	438	476	298	584	713	895	697	1024	448	298
32	693	753	480	938	1108	1379	1075	1583	678	488
40	925	1007	682	1242	1485	1761	1346	2024	955	682
50	1577	1717	1166	2187	2347	2741	2060	3219	1667	1181
65	4380	4789	3090	4380	6610	6413	4500	8588	4395	4395
80	7200	7691	5080	7200	9330	9669	6455	12122	7260	7260
100	11141	11931	7725	11141	13815	14697	9090	17949	11100	11100

Weight in g

DN	Connection (code)										
	33	39			3M		3T	78			
	Material (code)										
	1	1	2	5	1	2	1	1*	5	5*	20
10	210	-	-	-	230	-	-	-	-	-	-
15	205	460	481	387	215	234	225	220	220	210	299
20	335	632	663	504	345	375	335	340	340	325	466
25	433	853	895	697	448	487	448	443	443	420	604
32	703	1313	1379	1075	718	780	728	693	693	570	951
40	925	1669	1761	1346	975	1062	1015	945	945	900	1284
50	1647	2577	2741	2060	1712	1864	1727	1607	1607	1500	2229
65	4380	6610	6413	4500	4390	4762	4435	4400	3150	3100	4700
80	7250	9330	9669	6455	7210	7850	7250	7100	5240	5180	7150
100	10995	13815	14697	9090	11065	12222	11580	10800	7970	7800	11300

* Special version 1187
Weight in g

Dimensions

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	78.0	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

2/2-way body

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

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

DN 10 - 50

Connection type
code 3M

Flange
connection type code 4, 39

Hand lever DN 65 - 100

Butt weld spigot
connection type code 2 (PVDF), 78, 78*

DN 10 - 50

DN	Connection type code [1]						4	39	78*	4	39	4	39	78*
	d	ød	ØD	A	H	LA	LC			øf		ØF		E
15	1/2“	20.0	54.0	40.0	54.0	65.0	130.0	143.0	175.0	14.0	15.9	65.0	60.3	55.0

DN	Connection type code [1]						4	39	78*	4	39	4	39	78*
	d	ød	ØD	A	H	LA	LC			øf		ØF		E
20	3/4“	25.0	65.0	49.0	65.0	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	69.5	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	82.5	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	89.0	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	108.0	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	164.0	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	177.0	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	195.0	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: Union end with flange ANSI Class 125/150 RF
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

Connection type
code 3M

Flange
connection type code 4, 39

Hand lever DN 65 - 100

Butt weld spigot
connection type code 2 (PVDF), 78, 78*

DN	Connection type code [1]						33	2	33	3M	3T	7R	2	33	3M	3T	7R
	d	ød	ØD	A	LA	H	ød1	LB					LC				
10	3/8“	16.0	54.0	40.0	65.0	54.0	21.5	75.0	74.0	-	-	-	103.0	103.0	-	-	-
15	1/2“	20.0	54.0	40.0	65.0	54.0	26.9	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	65.0	33.7	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	69.5	42.4	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	82.5	48.4	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	89.0	60.5	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	108.0	-	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	164.0	-	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	177.0	-	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	195.0	-	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 (socket)
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

DN 10 - 50

Connection type
code 3M

Flange
connection type code 4, 39

Hand lever DN 65 - 100

Butt weld spigot
connection type code 2 (PVDF), 78, 78*

DN 10 - 50

DN	Connection type code [1]						2	3M	2	4	39	3M	4	39	4	39
	d	ød	øD	A	H	LA	LB		LC				øf		ØF	
10	3/8“	16.0	54.0	40.0	54.0	65.0	75.0	-	103.0	-	-	-	-	-	-	-
15	1/2“	20.0	54.0	40.0	54.0	65.0	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	65.0	70.0	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	69.5	78.0	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	82.5	88.0	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	89.0	93.0	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	108.0	111.0	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	164.0	133.0	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	177.0	149.0	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	195.0	167.0	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: Union end with flange ANSI Class 125/150 RF
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

DN 10 - 50

Connection type
code 3M

Flange
connection type code 4, 39

Hand lever DN 65 - 100

Butt weld spigot
connection type code 2 (PVDF), 78, 78*

DN 10 - 50

DN	Connection type code [1]						2	7R	33	2, 33	7R
	d	ød	øD	A	LA	H	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

Connection type
code 3M

Flange
connection type code 4, 39

Hand lever DN 65 - 100

Butt weld spigot
connection type code 2 (PVDF), 78, 78*

DN	Connection type code [1]						2	7R	2	4	39	78/78 *	7R	78/78 *	4	39	4	39
	d	ød	øD	A	H	LA	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	54.0	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	65.0	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	69.5	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	82.5	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	89.0	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	108.0	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	164.0	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	177.0	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	195.0	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: Union end with flange ANSI Class 125/150 RF
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

DN 10 - 50

Connection type
code 3M

Flange
connection type code 4, 39

Hand lever DN 65 - 100

Butt weld spigot
connection type code 2 (PVDF), 78, 78*

DN 10 - 50

DN	Connection type code [1]						2	2	4	78	4	39	4	39	78*
	d	ød	øD	A	H	LA	LB	LC			øf		ØF		E
10	-	16.0	54.0	40.0	54.0	65.0	74.5	102.0	-	-	-	-	-	-	-
15	1/2“	20.0	54.0	40.0	54.0	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	65.0	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	69.5	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	82.5	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	89.0	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	108.0	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	164.0	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	177.0	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	195.0	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: Union end with flange ANSI Class 125/150 RF
Code 78: Union end with insert (for IR butt welding) - DIN

Multi-port design

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

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

Connection type code 78, 78*

DN	Connection type code [1]						2	33	3M	3T	7R	2, 33	3M	3T	7R	78*	78*
	d	ød	ØD	A	H	LA	LB					LC					E
10	3/8“	16.0	54.0	40.0	54.0	80.0	90.0	-	-	-	-	118.0	-	-	-	-	-
15	1/2“	20.0	54.0	40.0	54.0	80.0	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	65.0	100.0	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	69.5	110.0	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	82.5	131.0	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	89.0	148.0	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	108.0	179.0	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 (socket)
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	Connection type code [1]						2	3M	2	3M
	d	ød	ØD	A	H	LA	LB		LC	
10	3/8“	16.0	54.0	40.0	54.0	80.0	90.0	-	118.0	-
15	1/2“	20.0	54.0	40.0	54.0	80.0	86.0	87.2	118.0	132.2
20	3/4“	25.0	65.0	49.0	65.0	100.0	107.0	108.2	145.0	159.2
25	1“	32.0	73.0	49.0	69.5	110.0	116.0	116.6	160.0	174.0
32	1 ¼“	40.0	86.0	64.0	82.5	131.0	136.5	141.0	188.5	205.0
40	1 ½“	50.0	98.0	64.0	89.0	148.0	157.0	157.6	219.0	227.6
50	2“	63.0	122.0	76.0	108.0	179.0	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 ABS (code 4), body configuration M

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

Connection type code 78, 78*

DN	Connection type code [1]						2	33	3M	3T	7R	2, 33	3M	3T	7R	78*	78*
	d	ød	ØD	A	H	LA	LB					LC					E
10	3/8″	16.0	54.0	40.0	54.0	80.0	90.0	-	-	-	-	118.0	-	-	-	-	-
15	1/2″	20.0	54.0	40.0	54.0	80.0	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	65.0	100.0	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	69.5	110.0	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	82.5	131.0	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	89.0	148.0	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	108.0	179.0	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 (socket)
Code 78: Union end with insert (for IR butt welding) - DIN
Code 7R: Union end with insert (Rp threaded socket) - DIN

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

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

Connection type code 78, 78*

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

Ordering information

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 717 PAL 90

Limitation of angle of rotation: 90°

By limiting the angle of rotation, the opening and closing of the handle and the ball of 3-way ball valves are restricted to an angle of 90°.

Ordering information

Nominal size	Item number	Order designation
DN 10 - 15	88443836	717 15PAL M 90
DN 20 - 25	88444009	717 25PAL M 90
DN 32 - 40	88444011	717 40PAL M 90
DN 50	88444012	717 50PAL M 90

GEMÜ 717 PAL 180

Limitation of angle of rotation: 180°

By limiting the angle of rotation, the opening and closing of the handle and the ball of 3-way ball valves are restricted to an angle of 180°.

Ordering information

Nominal size	Item number	Order designation
DN 10 - 15	88443937	717 15PAL M 180
DN 20 - 25	88444013	717 25PAL M 180
DN 32 - 40	88444014	717 40PAL M 180
DN 50	88444016	717 50PAL M 180

GEMÜ 717 LOC

Handle locking mechanism

The latch on the handle is lockable, optionally with a padlock. For the nominal sizes DN 65 - 100, the locking facility is integrated into the ball valve.

Ordering information

Nominal size	Item number	Order designation
DN 10 - 15	88434873	717 15LOC
DN 20 - 25	88330887	717 25LOC
DN 32 - 40	88434874	717 40LOC
DN 50	88330886	717 50LOC

GEMÜ 717 LEX

Kit for hand lever extension

Pipe a is not included in the scope of delivery and must be provided on-site.

Ordering information

Nominal size	Item number	Order designation
DN 10 - 15	88439623	717 15LEX
DN 20	88439793	717 20LEX
DN 25	88439794	717 25LEX
DN 32	88439796	717 32LEX
DN 40	88439797	717 40LEX
DN 50	88439599	717 50LEX

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