

GEMÜ B4F

Pneumatically operated 2/2-way ball valve



Features

- Suitable for chemical applications
- Low maintenance and reliable spindle sealing
- Antistatic device
- Fire Safe API 607 and DIN EN ISO 10497

Description

The GEMÜ B4F two-piece 2/2-way metal ball valve is pneumatically operated. The seat seal is made of PTFE reinforced with glass fibre.

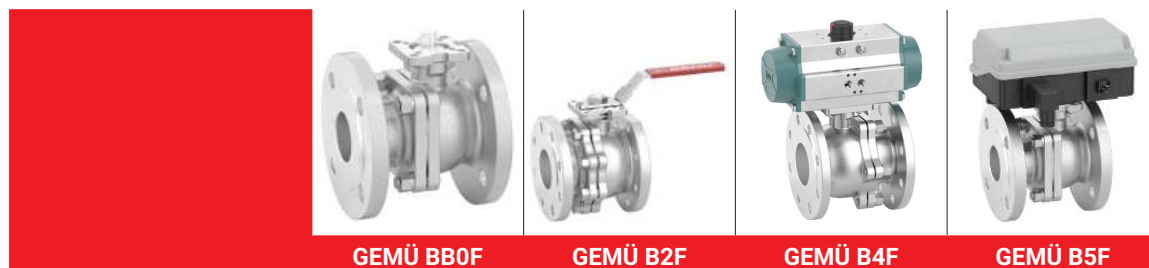
Technical specifications

- **Media temperature:** -40 to 220 °C
- **Ambient temperature:** -20 to 60 °C
- **Operating pressure :** 0 to 40 bar
- **Nominal sizes:** DN 15 to 200
- **Body configurations:** 2/2-way body
- **Ball configurations:** Control ball | Standard ball, full bore
- **Connection types:** Flange
- **Connection standards:** ASME | DIN | EN
- **Body materials:** 1.4408, investment casting material
- **Seal materials:** PTFE, reinforced
- **Conformities:** ATEX | EAC | FireSafe | Functional safety | TA Luft (German Clean Air Act)

Technical data depends on the respective configuration



Product line



	GEMÜ BB0F	GEMÜ B2F	GEMÜ B4F	GEMÜ B5F
Operation				
Manual	-	●	-	-
Pneumatic	-	-	●	-
Motorized	-	-	-	●
Nominal sizes	DN 15 to 200	DN 15 to 200	DN 15 to 200	DN 15 to 200
Media temperature	-40 to 220 °C	-40 to 220 °C	-40 to 220 °C	-40 to 220 °C
Operating pressure *	0 to 40 bar	0 to 40 bar	0 to 40 bar	0 to 40 bar
Connection types				
Flange	●	●	●	●

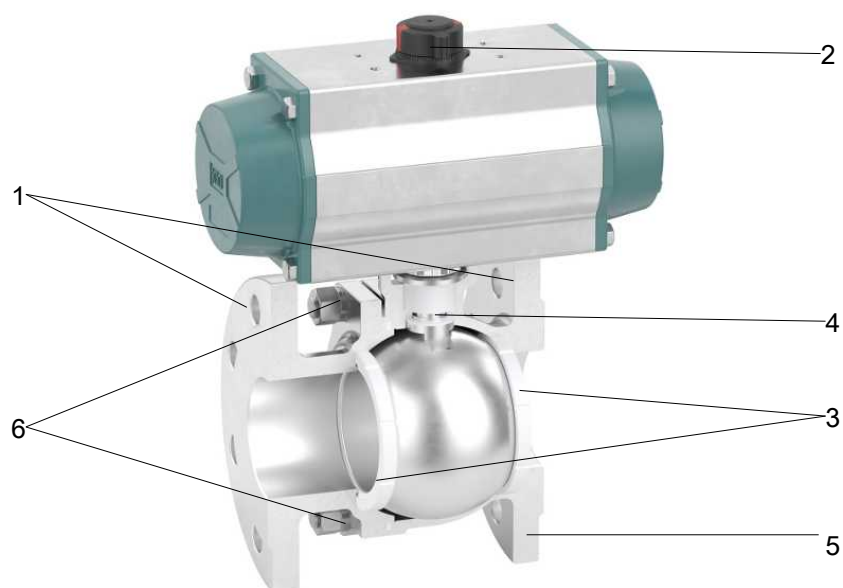
* depending on version and/or operating parameters

Comparison of actuator applications



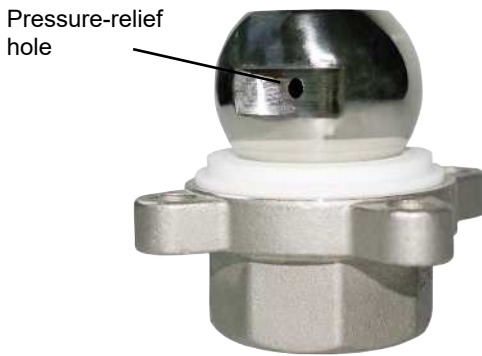
	GEMÜ ADA/ASR	GEMÜ DR/SC	GEMÜ GDR/GSR
Industrial sectors			
Chemical processes	●	●	●
Surface finishing	●	●	●
Water treatment	●	●	●
Mechanical engineering	●	●	●
Power generation and environmental systems	●	●	●
Food processing technology	●	●	●
Semiconductor	●	●	●
Medical systems	●	●	●
Pharmaceutical industry	●	●	●

Product description

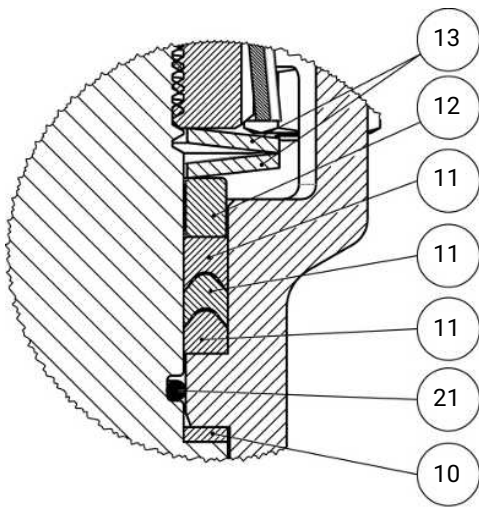


Item	Name	Materials
1	Pipe connections	1.4408 / CF8M
2	Position indicator	
3	Seal	PTFE with glass fibre reinforcement
4	Ball valve shaft	1.4408 / SS316
5	Ball valve body	1.4408 / CF8M
6	Bolt	A2 70

Pressure-relief hole



The spindle seal system



Item	Name	Material
10	Seal	316
11	V-ring	Graphite
12	Stainless steel sleeve	SS304
13	Spring washer	SS301
21	O-ring (spindle seal)	Viton

Long service life thanks to the triple spindle seal

- Conical spindle seal:

The seal **10** arranged at an angle of 45° reliably prevents the leakage of media when operating the spindle

- O-ring:

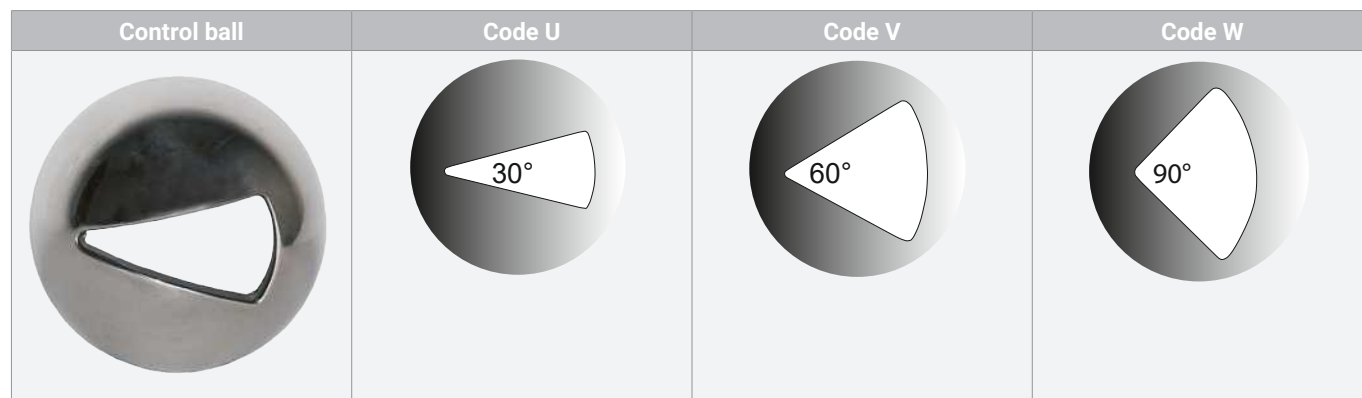
Stabilising spindle seal **21** with low wear and long service life

- Pretensioned self-adjusting spindle seal:

The spindle packing comprises several V-rings **11**, a spring washer **13** and a stainless steel sleeve **12**. The spring washer **13** is pretensioned via the spindle nut. The pretension force is distributed to the V-rings **11** via the stainless steel sleeve **12**, thereby preventing the leakage of media. The pretension provides low maintenance and reliable spindle sealing even after a long service life.

Control ball

DN 15 to DN 100



Note: The control ball cannot be retrofitted to standard 2/2-way bodies at a later date.

Application

- Heating systems
- Chemical industry
- Drinking water installation
- Processing industry
- HVAC

Actuator assignment**GEMÜ type GDR/GSR**

DN	Double acting GDR	Code	Single acting GSR	Code
15	GDR0050 F03/05 S11	HR05AW	GSR0075 SC5F05/07 S14	GR07SP
20	GDR0050 F03/05 S11	HR05AW	GSR0075 SC5F05/07 S14	GR07SP
25	GDR0050 F03/05 S11	HR05AW	GSR0085 SC5F05/07 S14	GR08SP
32	GDR0065 F05/07 S14	HR06AP	GSR0085 SC5F05/07 S14	GR08SP
40	GDR0065 F05/07 S14	HR06AP	GSR0100 SC5F07/10 S14A	GR1S8
50	GDR0075 F05/07 S14A	HR07AP	GSR0115 SC5F07/10 S17	GR11SE
65	GDR0085 F05/07 S17	HR08AC	GSR0125 SC5F07/10 S17A	GR12SE
80	GDR0100 F07/10 S17	HR10AE	GSR0140 SC5F10/12 S22	GR14SA
100	GDR0100 F07/10 S17	HR11AE	GSR0140 SC5F10/12 S22	GR16SA
125	GDR0125 F07/10 S22A	HR12AD	GSR0180 S14F10/14 S27A	GR18KB
150	GDR0140 F10/12 S27A	HR14AG	GSR0180 S14F10/14 S27A	GR18KB
200	GDR0140 F10/12 S27A	HR14AG	GSR0210 S12F12 S27A	GR21HQ

GEMÜ type ADA/ASR

DN	Double acting ADA	Code	Single acting ASR	Code
15	ADA0020U F04 S14S11	BU02AA	ASR0040US14 F04 S14 S11	AU04KA
20	ADA0020U F04 S14S11	BU02AA	ASR0040US14 F04 S14 S11	AU04KA
25	ADA0040U F05 S14S11	BU04AB	ASR0080US14 F05/07 S17S14	AU08KC
32	ADA0040U F05 S14S11	BU04AB	ASR0080US14 F05/07 S17S14	AU08KC
40	ADA0040U F05 S14S11	BU04AB	ASR0130US14 F05/07 S17S14	AU13KC
50	ADA0080U F05/F07 S17S14	BU08AC	ASR0200 US14 F05/07 S17S14	AU20KE
65	ADA0200U F07/10S17S14A	BU20AE	ASR0300US14 F07/10 S22	AU30KD
80	ADA0200U F07/10S17S14A	BU20AE	ASR0850US14F10/12 S27A	AU85KG
100	ADA0200U F07/10S17S14A	BU20AE	ASR0850US14F10/12 S27A	AU85KG
125	ADA0300U F07/10 S22A	BU30AD	ASR0850US14F10/12 S27A	AU85KG
150	ADA0500U F10 S22A	BU50AF	ASR1200US14F10/14 S36A	A12UKH
200	ADA0500U F10 S22A	BU50AF	ASR1200US14F10/14 S36A	A12UKH

GEMÜ type DR/SC

DN	Double acting ADA	Code	Single acting ASR	Code
15	DR0015U F04 S11	DU01AW	SC0060U 6F05/07 S14	SU06KP
20	DR0015U F04 S11	DU01AW	SC0060U 6F05/07 S14	SU06KP
25	DR0030U F05/07 S14	DU03AP	SC0060U 6F05/07 S14	SU06KP
32	DR0030U F05/07 S14	DU03AP	SC0060U 6F05/07 S14	SU06KP
40	DR0060U F05/07 S17	DU06AC	SC0100U 6F05/07 S17D11	SU10KC
50	DR0060U F05/07 S17	DU06AC	SC0150U 6F05/07 S17	SU15KC
65	DR0100U F05/07 S17	DU10AC	SC0220U 6F07/10 S22	SU22KD
80	DR0150U F07/10 S22	DU15AD	SC0450U 6F10/12 S27A	SU45KG
100	DR0220U F07/10 S22A	DU22AD	SC0450U 6F10/12 S27	SU45KG
125	DR0300U F07/10 S22A	DU30AD	SC0900U 6F10/12 S27A	SU90KG
150	DR0450U F10/12 S27A	DU45AG	SC0900U 6F10/12 S27A	SU90KG
200	DR0600U F10/12 S27A	DU60AG	SC1200U 6F10/12 S27A	S12UKG

Order data

Order codes

The order data provide an overview of standard configurations.

Please check the availability before ordering. Other configurations available on request.

Products ordered with **bold marked ordering options** are so-called preferred series. Depending on the nominal size, these are available more quickly.

1 Type	Code
Ball valve, metal, pneumatically operated, two-piece body, flange, aluminium double-piston actuator, low-maintenance spindle seal and blow-out proof shaft, with anti-static unit	B4F

2 DN	Code
DN 15	15
DN 20	20
DN 25	25
DN 32	32
DN 40	40
DN 50	50
DN 65	65
DN 80	80
DN 100	100
DN 125	125
DN 150	150
DN 200	200

3 Body/ball configuration	Code
2/2-way body	D
2/2-way body, V-ball, 30° (Kv value, see datasheet)	U
2/2-way body, V-ball, 90° (Kv value, see datasheet)	W
2/2-way body, V-ball, 60° (Kv value, see datasheet)	Y

4 Connection type	Code
Flange ANSI class 125/150 RF, up to DN 100 face-to-face dimension FTF EN 558 series 3, ASME/ANSI B16.10 table 1, columns 8 and 9, from DN 125 face-to-face dimension FTF EN 558 series 12,	46
Flange DIN EN 558 series 27 PN40	3E
Flange DIN EN 558 series 27 PN16	3G

5 Ball valve material	Code
1.4408/CF8M (body, connection), 1.4401/SS316 (ball, shaft)	37

6 Seal material	Code
Seat seal = PTFE with glass fibre reinforcement Housing seal = stainless steel with graphite Spindle seal = stainless steel with graphite, Viton O-ring	5F

7 Control function	Code
Normally closed (NC)	1
Normally open (NO)	2
Double acting (DA)	3
Normally closed (NC), actuator mounted across the piping	Q
Double acting (DA), actuator mounted across the piping	T
Normally open (NO), actuator mounted across the piping	U

8 Actuator version	Code
Actuator, pneumatic, double acting, clockwise rotation, GDR0032 F03 S09	HR03AT
Actuator, pneumatic, double acting, clockwise rotation, GDR0050 F03/05 S11	HR05AW
Actuator, pneumatic, double acting, clockwise rotation, GDR0065 F05/07 S14	HR06AP
Actuator, pneumatic, double acting, clockwise rotation, GDR0085 F05/07 S17	HR08AC
Actuator, pneumatic, double acting, clockwise rotation, GDR0100 F07/10 S17	HR10AE

Actuator GEMÜ GDR	Code
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
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, GSR0115 SC5F07/10 S17	GR11SE
Actuator, pneumatic, single acting, clockwise rotation, spring closing, GSR0125 SC5F07/10 S17	GR12SE
Actuator, pneumatic, single acting, clockwise rotation, spring closing, GSR0140 SC5F10/12 S22	GR14SA

Actuator GEMÜ ADA	Code
Actuator, pneumatic, double acting, clockwise rotation, ADA0020U F04 S14S11	BU02AA
Actuator, pneumatic, double acting, clockwise rotation, ADA0040U F05 S14S11	BU04AB
Actuator, pneumatic, double acting, clockwise rotation, ADA0080U F05/07S17S14	BU08AC

Order data

8 Actuator version	Code
Actuator, pneumatic, double acting, clockwise rotation, ADA0130U F05/07S17S14	BU13AC
Actuator, pneumatic, double acting, clockwise rotation, ADA0200U F07/10S17S14	BU20AE
Actuator GEMÜ ASR	
Actuator, pneumatic, single acting, clockwise rotation, spring closing, ASR0020US08F04 S14S11	AU02FA
Actuator, pneumatic, single acting, clockwise rotation, spring closing, ASR0040US14F04 S14S11	AU04KA
Actuator, pneumatic, single acting, clockwise rotation, spring closing, ASR0040US14F05 S14S11	AU04KB
Actuator, pneumatic, single acting, clockwise rotation, spring closing, ASR0080US14F05/07S17S14	AU08KC
Actuator, pneumatic, single acting, clockwise rotation, spring closing, ASR0130US14F05/07S17S14	AU13KC
Actuator, pneumatic, single acting, clockwise rotation, spring closing, ASR0300US14F07/10 S22	AU30KD
Actuator, pneumatic, single acting, clockwise rotation, spring closing, ASR0500US14F07/10 S22	AU50KD
Actuator GEMÜ DR	
Actuator, pneumatic, double acting, clockwise rotation, DR0015U F04 S11	DU01AO
Actuator, pneumatic, double acting, clockwise rotation, DR0060U F05/07 S14	DU03AP
Actuator, pneumatic, double acting, clockwise rotation, DR0060U F05/07 S17	DU06AC
Actuator, pneumatic, double acting, clockwise rotation, DR0100U F05/07 S17	DU10AC
Actuator, pneumatic, double acting, clockwise rotation, DR0150U F07/10 S22	DU15AD
Actuator GEMÜ SC	
Actuator, pneumatic, single acting, clockwise rotation, spring closing, SC0015USC8F04 S11	SU01VO
Actuator, pneumatic, single acting, clockwise rotation, spring closing, SC0030U 6F04 S11	SU03KO
Actuator, pneumatic, single acting, clockwise rotation, spring closing, SC0030U 6F05/07 S14	SU03KP
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, SC0150U 6F05/07 S17	SU15KC
Actuator, pneumatic, single acting, clockwise rotation, spring closing, SC0220U 6F07/10 S22	SU22KD

8 Actuator version	Code
Actuator, pneumatic, single acting, clockwise rotation, spring closing, SC0450U 6F10/12 S27	SU45KG

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

10 Type of design	Code
Standard	
Media wetted area cleaned to ensure suitability for paint applications, parts sealed in plastic bag	0101
Media wetted parts cleaned for high purity media and packed in plastic bag	0104
Valve free of oil and grease, media wetted area cleaned and packed in PE bag	0107
Thermal separation between actuator and valve body via mounting kit	5222
Thermal separation between actuator and valve body by mounting kit, mounting kit and mounting parts in stainless steel	5227
K-no. SF5, K-no. 5222, SF5 - Ra max. 0.51 µm (20 µin.) electropolished internal/external, 5222 - Thermal separation via mounting kit	7143

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

Order example

Ordering option	Code	Description
1 Type	B4F	Ball valve, metal, pneumatically operated, two-piece body, flange, aluminium double piston actuator, low-maintenance spindle seal and blow-out proof shaft, with anti-static unit
2 DN	15	DN 15
3 Body/ball configuration	D	2/2-way body
4 Connection type	3E	Flange DIN EN 558 series 27 PN40
5 Ball valve material	37	1.4408 / CF8M (body, connection), 1.4401 / SS316 (ball, shaft)
6 Seal material	5F	Seat seal = PTFE with glass fibre reinforcement Body seal = stainless steel with graphite Spindle seal = stainless steel with graphite, Viton O-ring
7 Control function	3	Double acting (DA)
8 Actuator version	BU02AA	Actuator, pneumatic, double acting, clockwise rotation, ADA0020U F04 S14S11
9 Actuator particulars	0	General industrial version, Aluminium housing, anodised coating 25-35µm, aluminium end caps, powder coated, C-steel shaft + ENP, A2 screws
10 Type of design		Standard
11 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.

Temperature

Media temperature: -40 – 220 °C
 For media temperatures > 100 °C, we recommend using a mounting kit with adapter between the ball valve and the actuator.

Ambient temperature: -20 – 60 °C

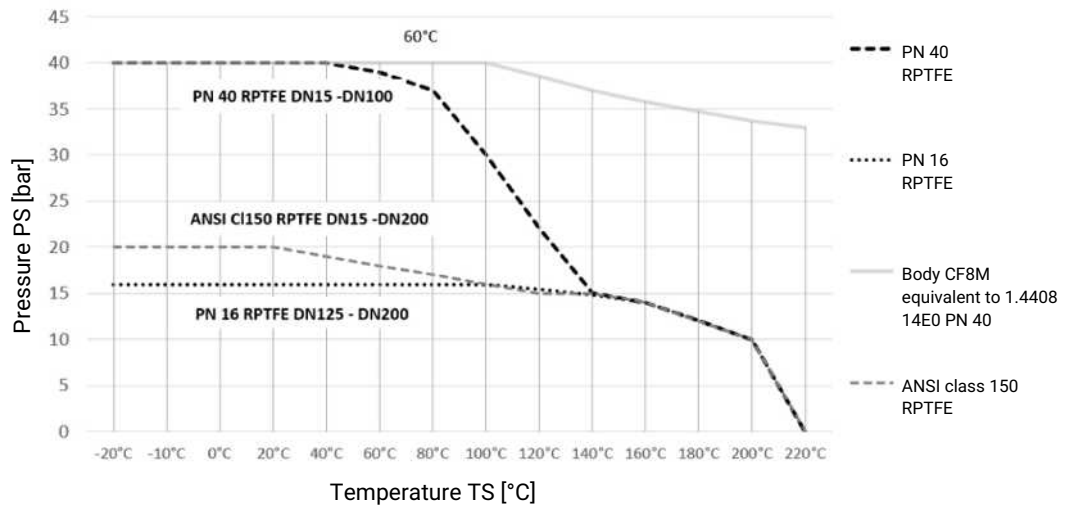
Storage temperature: -60 – 60 °C

Pressure

Operating pressure: 0 – 40 bar

Vacuum: Can be used up to a vacuum of 50 mbar (absolute)
 These values apply to room temperature and air. The values may deviate for other media and other temperatures.

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.

Leakage rate: Leakage rate according to ANSI FCI70 – B16.104
 Leakage rate according to EN12266, 6 bar air, leakage rate A

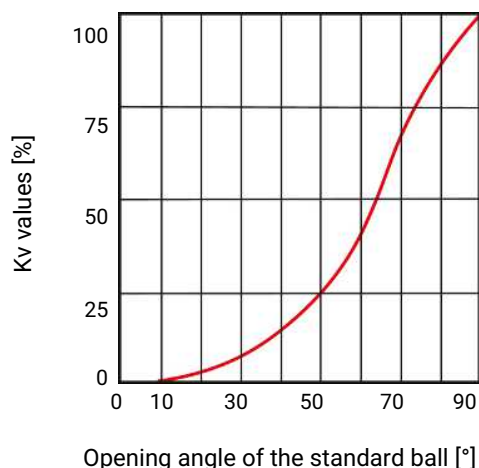
Cv values:

Standard ball (code D)

DN	NPS	Kv values
15	1/2"	26
20	3/4"	47
25	1"	82
32	1 1/4"	146
40	1 1/2"	231
50	2"	403
65	2 1/2"	668
80	3"	985
100	4"	1799
125	5"	2999
150	6"	4284
200	8"	8141

Kv values in m³/h

Diagrammatic view



V-ball 30° (code U)

DN	NPS	Opening angle										
		0	15%	20%	30%	40%	50%	60%	70%	80%	90%	100%
15	1/2"	0	0.085	0.085	0.170	0.255	0.425	0.680	0.935	1.360	1.870	2.210
20	3/4"	0	0.085	0.170	0.425	0.595	0.935	1.530	2.040	2.805	3.825	4.590
25	1"	0	0.085	0.255	0.680	1.105	1.955	2.975	4.335	5.961	8.128	8.500
32	1 1/4"	0	0.170	0.340	0.935	1.700	3.145	4.675	6.800	8.500	11.050	12.750
40	1 1/2"	0	0.255	0.510	1.360	2.550	4.250	6.375	9.350	11.900	14.450	17.000
50	2"	0	0.340	1.020	3.230	5.100	8.500	12.75	19.550	26.350	36.550	51.000
65	2 1/2"	0	0.340	0.850	3.400	6.800	10.200	15.300	23.800	31.450	52.70	63.750
80	3"	0	0.425	1.020	3.400	6.800	11.900	19.550	28.050	39.100	55.250	69.700
100	4"	0	0.510	1.700	5.100	12.750	24.650	40.800	60.350	85.000	110.50	135.20

Kv values in m³/h

Cv values:

V-ball 60° (code Y)

DN	NPS	Opening angle										
		0	15%	20%	30%	40%	50%	60%	70%	80%	90%	100%
15	1/2"	0	0.085	0.085	0.255	0.425	0.765	1.190	1.700	2.805	3.740	5.100
20	3/4"	0	0.085	0.170	0.595	0.850	1.445	2.380	3.400	5.525	7.650	10.200
25	1"	0	0.170	0.340	0.935	1.530	2.890	4.505	6.715	10.46	13.010	17.850
32	1¼"	0	0.170	0.510	1.530	2.550	4.675	8.075	10.880	16.15	22.100	33.150
40	1½"	0	0.340	0.680	2.125	3.400	6.800	11.050	16.150	22.95	34.000	44.200
50	2"	0	0.340	1.275	3.910	7.650	14.030	22.950	33.150	46.75	70.550	93.500
65	2½"	0	0.340	1.275	4.250	8.500	17.850	28.900	45.050	63.75	87.550	127.50
80	3"	0	0.425	2.125	5.100	11.900	21.250	34.000	55.250	77.35	108.80	140.30
100	4"	0	0.595	2.550	9.350	21.250	34.000	50.150	76.500	119.9	180.20	302.60

Kv values in m³/h

V-ball 90° (code W)

DN	NPS	Opening angle										
		0	15%	20%	30%	40%	50%	60%	70%	80%	90%	100%
15	1/2"	0	0.085	0.170	0.340	0.510	0.765	1.275	1.870	3.230	4.590	5.865
20	3/4"	0	0.170	0.340	0.680	1.020	1.700	2.635	3.910	6.800	9.605	11.900
25	1"	0	0.170	0.510	1.530	2.890	4.335	6.885	9.690	13.600	17.850	24.650
32	1¼"	0	0.255	0.680	1.700	4.250	6.800	11.900	16.150	23.800	33.150	46.750
40	1½"	0	0.425	0.765	2.975	5.950	11.050	17.000	26.350	35.700	53.550	66.300
50	2"	0	0.595	1.700	5.100	10.200	18.700	29.750	38.250	59.500	89.250	114.80
65	2½"	0	0.425	1.445	5.950	11.900	23.800	40.800	59.500	90.100	136.00	185.30
80	3"	0	0.595	2.975	6.800	15.300	29.750	51.000	76.500	114.80	174.30	263.50
100	4"	0	0.850	2.975	13.600	34.000	63.750	106.30	161.50	250.80	375.70	569.50

Kv values in m³/h

Pressure rating:

DN	Flange		
	46	3E	3G
15	Class 150	PN40	-
20	Class 150	PN40	-
25	Class 150	PN40	-
32	Class 150	PN40	-
40	Class 150	PN40	-
50	Class 150	PN40	-
65	Class 150	PN40	-
80	Class 150	PN40	-
100	Class 150	PN40	-
125	Class 150	-	PN16
150	Class 150	-	PN16
200	Class 150	-	PN16

* on request

Connection type	Code
Flange ANSI class 125/150 RF, up to DN 100 face-to-face dimension FTF EN 558 series 3, ASME/ANSI B16.10 table 1, columns 8 and 9, from DN 125 face-to-face dimension FTF EN 558 series 12,	46
Flange DIN EN 558 series 27 PN40	3E
Flange DIN EN 558 series 27 PN16	3G

Control pressure:

6 to 8 bar

Product conformity

Machinery Directive:	2006/42/EC
Fire Safe:	API 607 and DIN EN ISO 10497
Pressure Equipment Directive:	ASME GEMÜ B31.3 (DN 15–200) 2014/68/EU
Explosion protection:	Based on ATEX (2014/34/EU), order code special version X
ATEX marking:	The ATEX marking of the product depends on the respective product configuration with valve body and actuator. It can be found in the product-specific ATEX documentation and the ATEX type plate.

Mechanical data

90° travel:	GEMÜ GDR/GSR: ±5° adjustable (85° - 95°) GEMÜ ADA /ASR: ±5° adjustable (85° - 95°) GEMÜ DR /SC: 20° adjustable (75° - 95°)
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Weight:

Ball valve

DN	NPS	Connection code 46	Connection code 3E, 3G
15	1/2"	1.4	2.2
20	3/4"	1.75	2.8
25	1"	2.75	3.7
32	1¼"	3.45	5.3
40	1½"	5.1	6.4
50	2"	7.45	8.9
65	2½"	11.65	14.8
80	3"	15.55	19.9
100	4"	26.65	27
125	5"	41.3	43
150	6"	61.7	61
200	8"	127.55	120.6

Weights in kg

Actuator type GDR/GSR

Type	GDR Double act- ing	GSR Single acting
0032	0.5	-
0050	1.1	1.2
0065	1.5	1.8
0075	2.6	3.2
0085	3.4	4.3
0100	5.1	6.6
0115	8.0	10.6
0125	10.0	13.4
0140	11.0	17.2

Weights in kg

Weight:

Actuator type ADA/ASR

Type	ADA Double act- ing	ASR Single acting
0020U	1.4	1.5
0040U	2.1	2.3
0080U	3.0	3.7
0130U	3.8	4.8
0200U	5.6	7.3
0300U	8.5	10.8
0500U	11.2	15.4

Weights in kg

Actuator type DR/SC

Type	DR Double act- ing	SC Single acting
0015U	1.0	1.1
0030U	1.6	1.7
0060U	2.7	3.1
0100U	3.7	4.3
0150U	5.2	6.1
0220U	8.0	9.3
0300U	9.8	12.0
0450U	14.0	17.0

Weights in kg

Torques:

DN	NPS	Breakaway torque
15	1/2"	14
20	3/4"	14
25	1"	20
32	1¼"	24
40	1½"	36
50	2"	53
65	2½"	91
80	3"	120
100	4"	174
125	5"	264
150	6"	368
200	8"	552

Torques in Nm

A safety factor of 1.2 is included

With dry, non-lubricating media the breakaway torque may be increased.

Valid for clean, non-particulate and oil-free media (water, alcohol, etc.) or gas or saturated steam (clean and wet). Seal, PTFE with glass fibre reinforcement.

Dimensions

Actuator dimensions

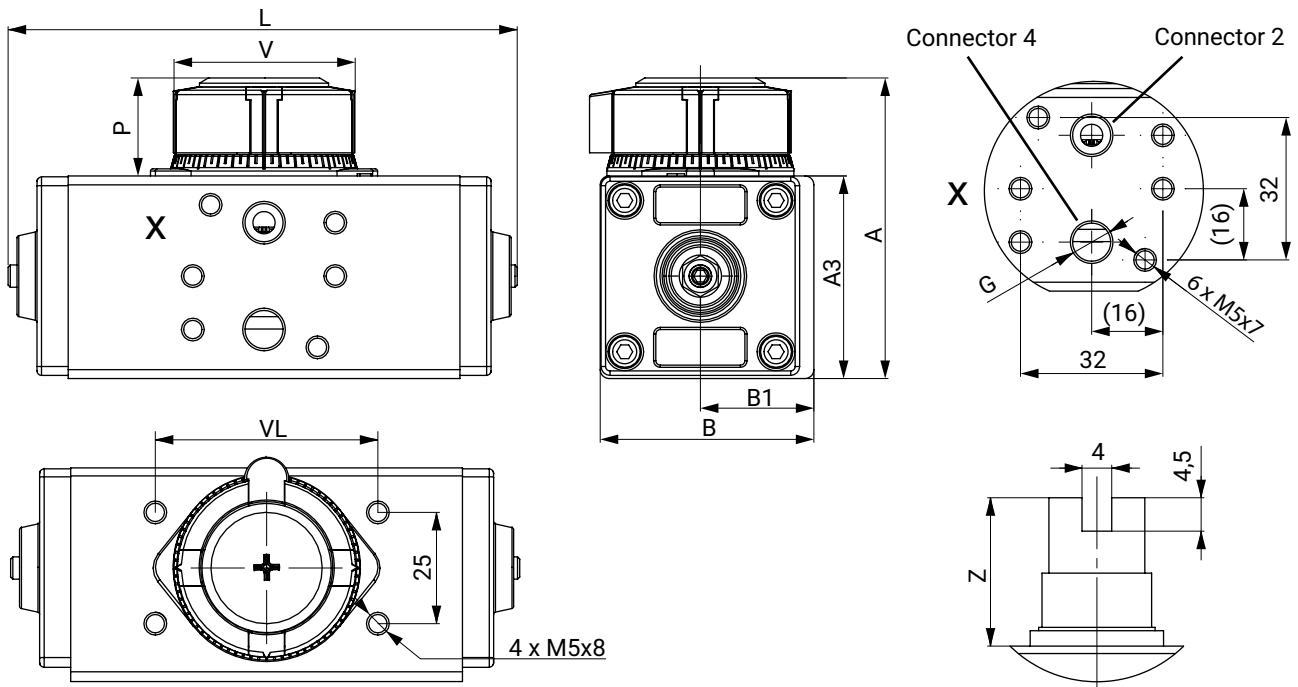
Note on actuator mounting:

Standard mounting orientation – actuator positioned in-line with piping

Only with flanged connections the actuator is mounted across the piping

Type GDR/GSR

Type G0032

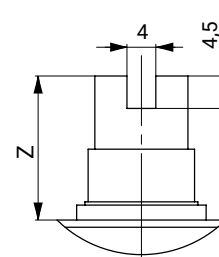
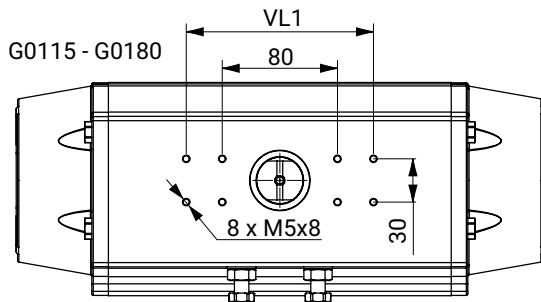
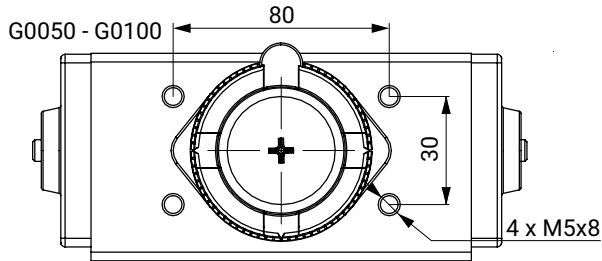
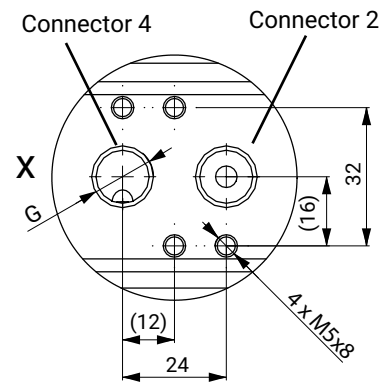
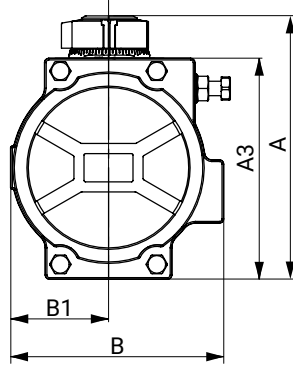
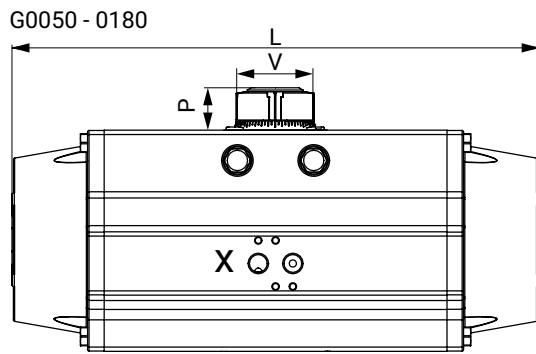


The control air connector (view X) for GDR0032 is not compatible for direct mounting with a Namur pilot valve, or a throttle of type 8500/8506. Provide the control air connector with external thread fittings and a compressed air hose

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

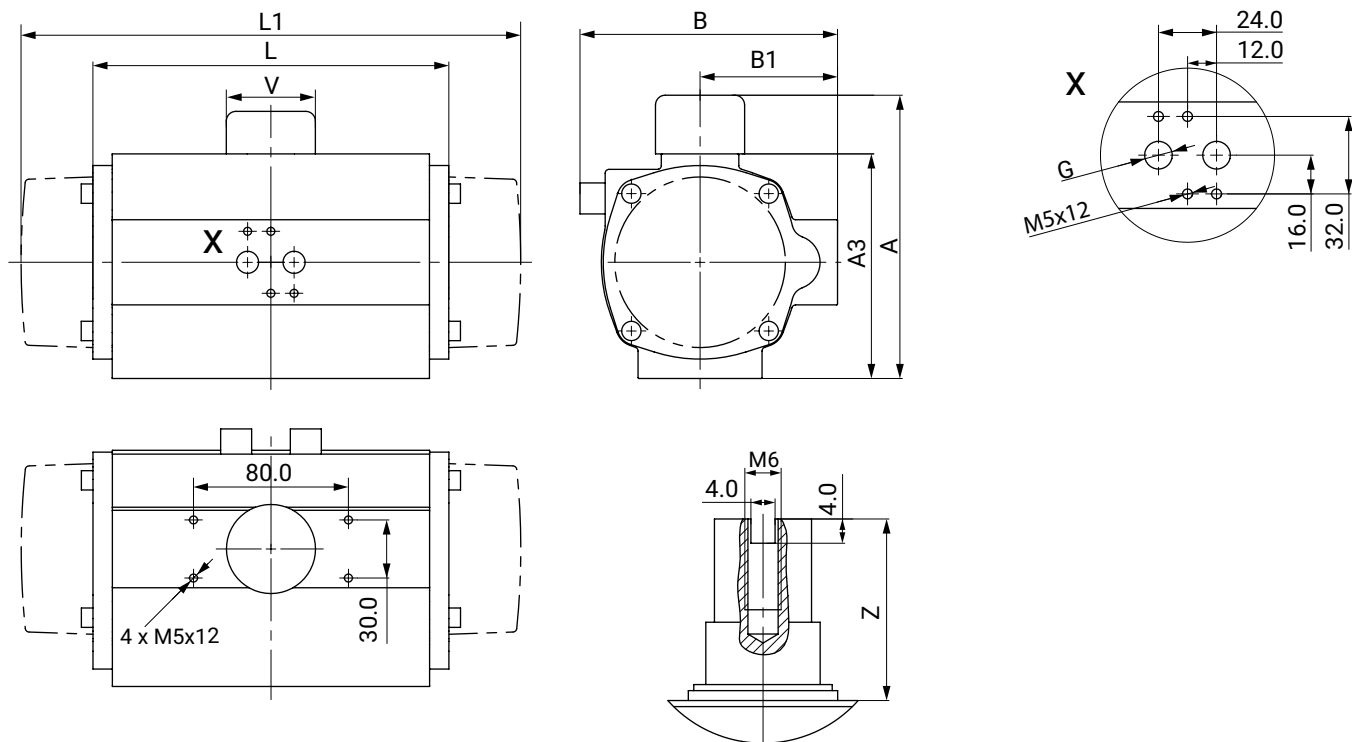
Type G0050 – G0180



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	-
G0085	130.5	108.5	106.0	47.5	40.0	G1/8"	22.0	80.0	20.0	237.0	-
G0100	143.5	121.5	123.0	55.0	40.0	G1/4"	22.0	80.0	20.0	271.5	-
G0115	174.0	142.0	137.0	64.0	65.0	G1/4"	32.0	80.0	30.0	337.0	130.0
G0125	185.5	153.5	148.0	68.0	65.0	G1/4"	32.0	80.0	30.0	366.0	130.0
G0140	207.9	175.9	164.0	76.5	65.0	G1/4"	32.0	80.0	30.0	428.5	130.0
G0160	225.0	193.0	188.0	88.0	65.0	G1/4"	32.0	80.0	30.0	512.0	130.0
G0180	251.0	219.0	212.5	96.5	65.0	G1/4"	32.0	80.0	30.0	573.0	130.0

Dimensions in mm

Type ADA/ASR

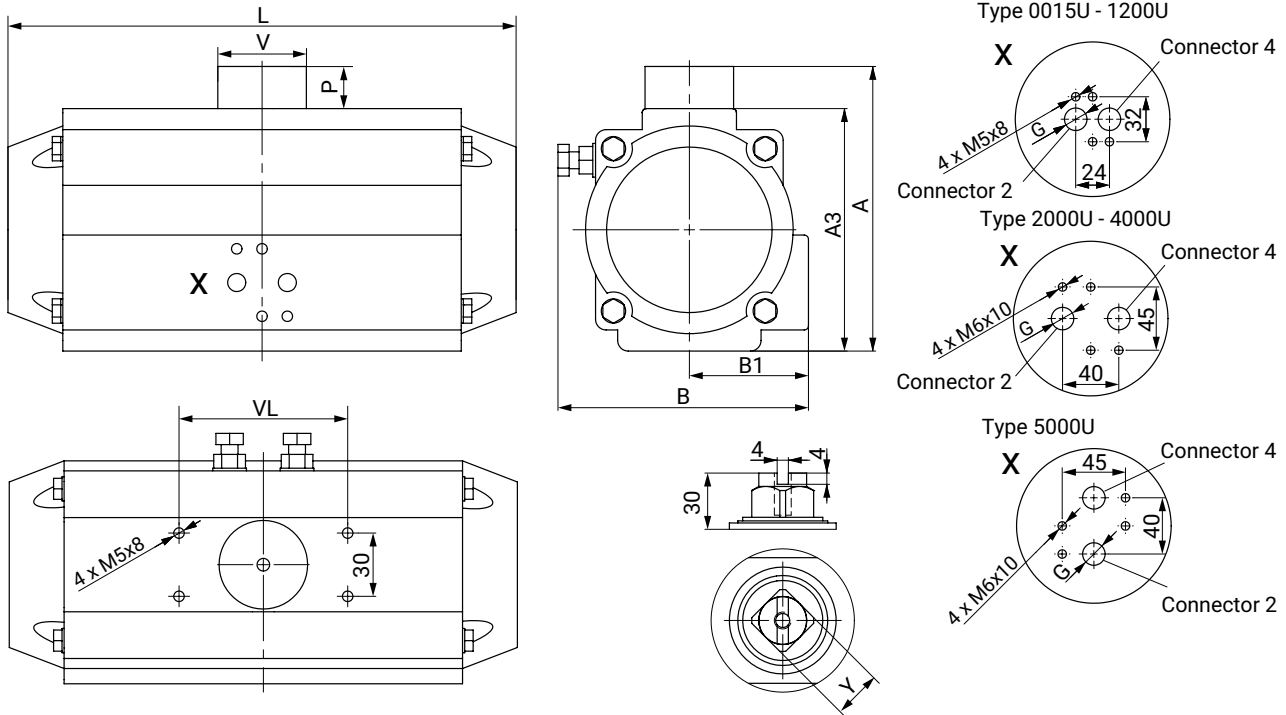


Type	A	A3	B	B1	G	L	L1	V	Z
0020U	96.0	66.0	76.0	48.0	G1/4"	145.0	163.0	40.0	30.0
0040U	115.0	85.0	91.0	56.0	G1/4"	158.0	195.0	40.0	30.0
0080U	137.0	107.0	111.0	66.0	G1/4"	177.0	217.0	40.0	30.0
0130U	147.0	117.0	122.0	71.0	G1/4"	196.0	258.0	40.0	30.0
0200U	165.0	135.0	135.5	78.0	G1/4"	225.0	299.0	40.0	30.0
0300U	182.0	152.0	152.5	86.0	G1/4"	273.0	348.5	40.0	30.0
0500U	199.0	169.0	173.0	96.0	G1/4"	304.0	397.0	40.0	30.0

Dimensions in mm

Type DR/SC

Actuator dimensions

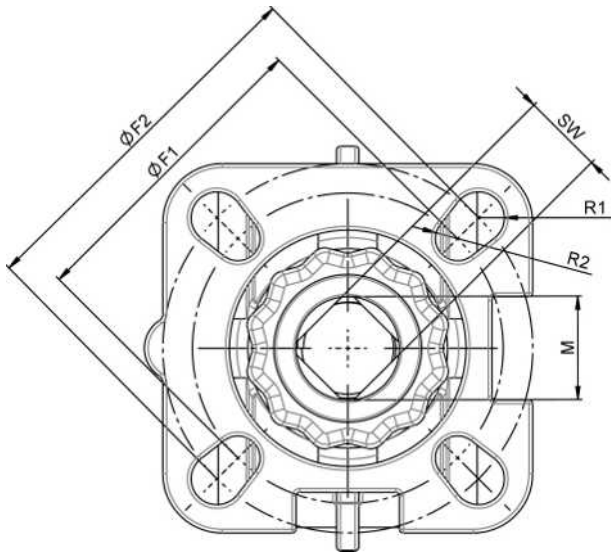


Type	A	A3	B	B1	V	VL	G	P	L	Y
0015U	89.0	69.0	72.0	43.0	42.0	80.0	G1/8"	20.0	136.0	11.0
0030U	105.0	85.0	84.5	48.5	42.0	80.0	G1/8"	20.0	153.5	11.0
0060U	122.0	102.0	93.0	50.5	42.0	80.0	G1/8"	20.0	203.5	17.0
0100U	135.0	115.0	106.0	56.5	42.0	80.0	G1/8"	20.0	241.0	17.0
0150U	147.0	127.0	118.5	63.0	42.0	80.0	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
0300U	187.0	157.0	146.5	77.0	58.0	80.0	G1/4"	30.0	333.0	27.0
0450U	207.0	177.0	166.0	86.0	67.5	80.0	G1/4"	30.0	394.5	27.0

Dimensions in mm

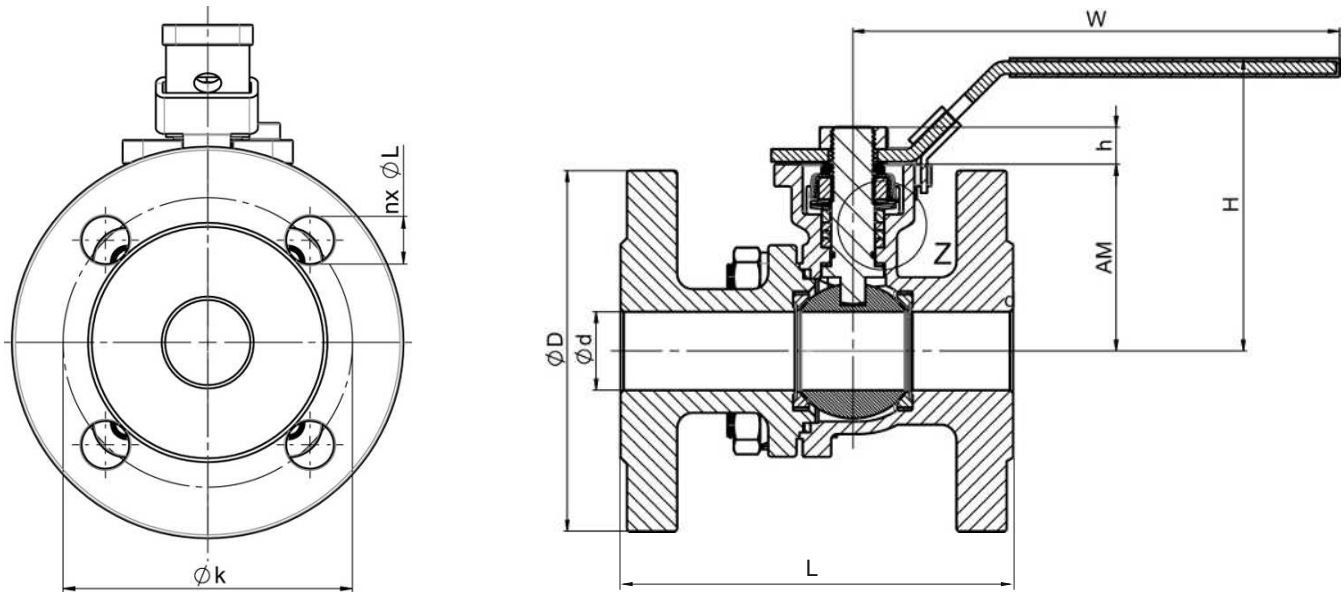
Ball valve

Actuator flange



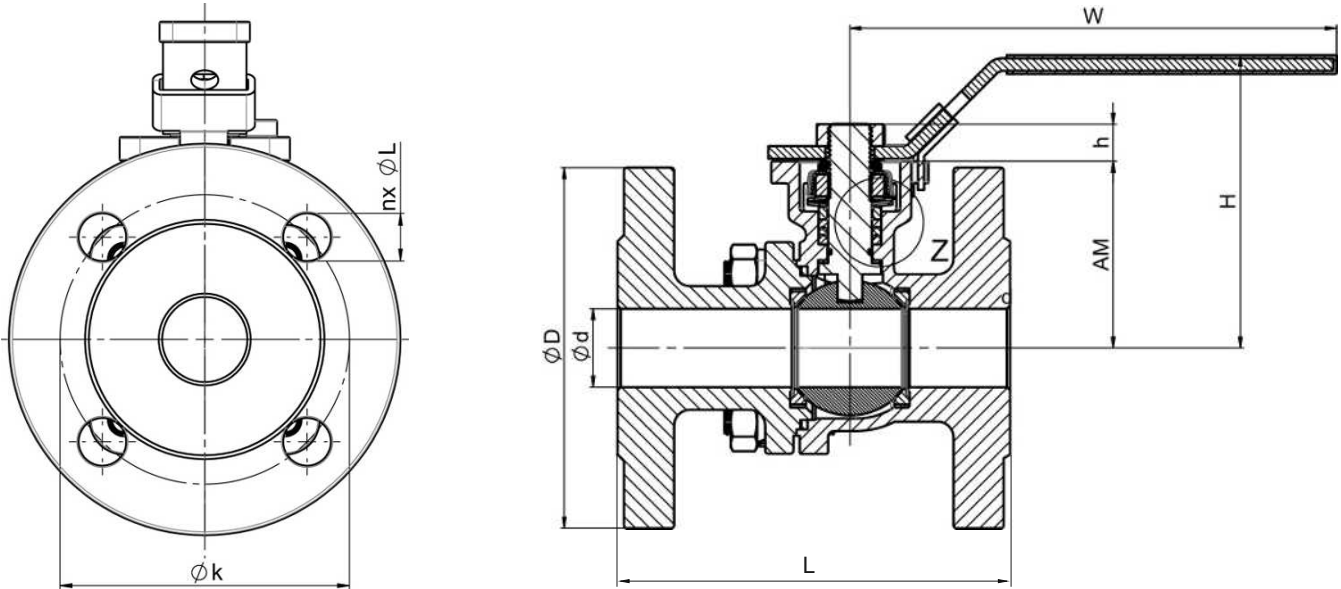
DN	G	F1	ISO 5211	R1	F2	ISO 5211	R2	SW	M	
15	1/2"	36	F03	3	42	F04	3	9	M12	ANSI/PN
20	3/4"	36	F03	3	42	F04	3	9	M12	ANSI/PN
25	1"	42	F04	3	50	F05	3.5	11	M14	ANSI/PN
32	1 1/4"	42	F04	3	50	F05	3.5	11	M14	ANSI/PN
40	1 1/2"	50	F05	3.5	70	F07	4.5	14	M18	ANSI/PN
50	2"	50	F05	3.5	70	F07	4.5	14	M18	ANSI/PN
65	2 1/2"	70	F07	5	102	F10	4.5	17	M22	PN40
80	3"	70	F07	5	102	F10	6	17	M22	PN40
100	4"	102	F10	5	125	F12	6	22	M27	PN40
65	2 1/2"	50	F05	3.5	70	F07	4.5	14	M18	ANSI
80	3"	70	F07	5	102	F10	4.5	17	M22	ANSI
100	4"	70	F07	5	102	F10	6	17	M22	ANSI
125	5"	102	F10	5	125	F12	6	27	M34	ANSI
150	6"	102	F10	5	125	F12	6	27	M34	ANSI
200	8"	-	-	5	125	F12	6	27	M34	ANSI
100	4"	70	F07	5	102	F10	4.5	17	M22	PN16
125	5"	102	F10	5	125	F12	6	22	M27	PN16
150	6"	102	F10	5	125	F12	6	22	M27	PN16
200	8"	-	-	5	125	F12	6	27	M34	PN16

Dimensions in mm

Flange (connection code 3E, 3G)

DN	Con- nection code	$\varnothing d$	$\varnothing D$	h	$\varnothing k$	n x $\varnothing L$	W	H	AM	L
15	3E	15.0	95.0	10	65.0	4 x 14.0	125	80	48	115
20	3E	20.0	105.0	10	75.0	4 x 14.0	125	84	54	120
25	3E	25.0	115.0	12	85.0	4 x 14.0	155	93	59	125
32	3E	32.0	140.0	12	100.0	4 x 18.0	155	105	71	130
40	3E	38.0	150.0	15	110.0	4 x 18.0	195	122	78	140
50	3E	50.0	165.0	15	125.0	4 x 18.0	195	129	85	150
65	3E	65.0	185.0	17	145.0	8 x 18.0	257	162	107	170
80	3E	76.0	200.0	18	160.0	8 x 18.0	221	173	117	180
100	3E	100.0	235.0	23	190.0	8 x 22.0	254	203	150	190
125	3G	125	270	23	210	8 x 18.0	430	248	180	325
150	3G	150	300	23	240	8 x 22.0	430	266	198	350
200	3G	200	375	31	340	12 x 22.0	700	329	252	400

Flange (connection code 46)



DN	Connection code	$\varnothing d$	$\varnothing D$	h	$\varnothing k$	n x $\varnothing L$	W	H	AM	L
15	46	15.0	95.0	10	65.0	4 x 16.0	125	80	48	108
20	46	20.0	105.0	10	75.0	4 x 16.0	125	84	54	117
25	46	25.0	115.0	12	85.0	4 x 16.0	155	93	59	127
32	46	32.0	140.0	12	100.0	4 x 16.0	155	105	71	140
40	46	38.0	150.0	15	110.0	4 x 16.0	195	122	78	165
50	46	50.0	165.0	15	125.0	4 x 19.0	195	129	85	178
65	46	65.0	185.0	17	145.0	4 x 19.0	257	162	107	190
80	46	76.0	200.0	18	160.0	4 x 19.0	221	173	117	203
100	46	100.0	235.0	23	190.0	8 x 19.0	254	203	150	229
125	46	125	255	23	216	8 x 19.0	430	248	180	356
150	46	150	280	23	252	8 x 19.0	430	266	198	394
200	46	200	345	31	298	8 x 19.0	700	329	252	457

Add-on components

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 LSC



Limit switch box for quarter turn actuators

The GEMÜ LSC limit switch box 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.

Accessories

GEMÜ ADH

Mounting sleeve

The mounting sleeve accessories are available in the square and star geometry designs. These are used for the shaft and hub support for quarter turn actuators. Both sleeves have an internal square drive (please observe stated measurement dimensions here). The sleeve material is sintered metal and they are chemically nickel plated with a surface of 25 µm.



GEMÜ 2022

Throttle valve

The GEMÜ 2022 throttle valves are available as throttle valve, throttle check valve and dual throttle check valve. In pneumatic actuators they are used to regulate the compressed air depending on the function for the supply or exhaust air and can be set independently of each other in the case of dual throttle check valves.



GEMÜ 8500

Electrically operated pilot solenoid valve

The GEMÜ 8500 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. The piston valve has a soft elastomer seal.



GEMÜ 8500DRN

Throttle plate

Throttle plates can be used to continuously adjust the travel times of pneumatic quarter turn actuators in both the "OPEN" and "CLOSED" directions independently of one another. They are installed between the NAMUR valve and the quarter turn actuator.



GEMÜ 1751

Silencer

Damping of vent hole or suction noises and coarse filtering of the suction air for pneumatic applications

Certificates

Certificate	Standard	Item number
3.1 Material	EN 10204	88333336

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:

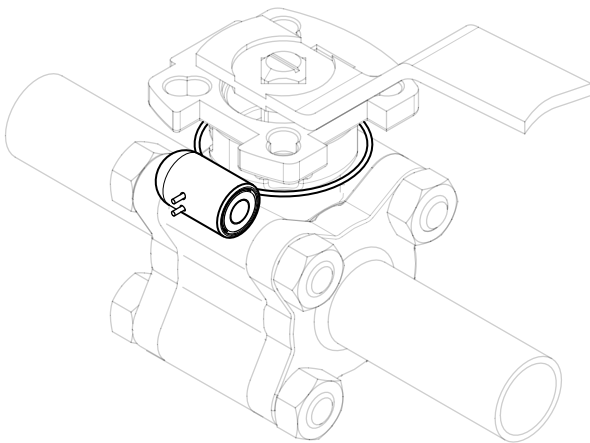
www.gemu-group.com/conexo

Ordering

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

Installing the RFID chip

In the corresponding design with CONEXO, this product has an RFID chip for electronic identification purposes. The position of the RFID chip can be seen below.





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