

GEMÜ 620

Pneumatically operated diaphragm valve



Features

- Suitable for particulate and abrasive media
- Various lining materials are available, such as PFA, PP or hard rubber
- Standard optical position indicator
- Wide range of adaptation options for add-on components and accessories

Description

The GEMÜ 620 2/2-way diaphragm valve has a low maintenance membrane actuator made of metal or plastic and is pneumatically operated. The valve has a metal distance piece. Normally Closed (NC), Normally Open (NO) and Double Acting (DA) control functions are available.

Technical specifications

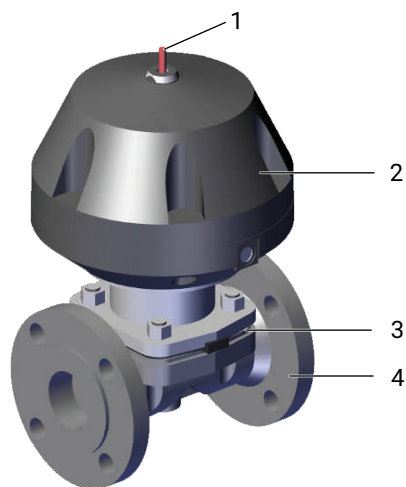
- **Media temperature:** 32 to 212 °F
- **Ambient temperature:** 32 to 140 °F
- **Operating pressure :** 0 to 150 psi
- **Nominal sizes:** 1/2" (DN 15) to 6" (DN 150)
- **Body configurations:** 2/2-way body
- **Connection standards:** ANSI | BS | EN | ISO
- **Body materials:** EN-GJL-250, cast iron material | EN-GJS-400-18-LT (GGG 40.3), PFA lined | EN-GJS-400-18-LT (GGG 40.3), PP lined | EN-GJS-400-18-LT, hard rubber lined | EN-GJS-400-18-LT, SG iron material | EN-GJS-500-7, ductile iron material, PFA lined | EN-GJS-500-7, ductile iron material, PP lined
- **Body lining:** Hard rubber | PFA | PP
- **Diaphragm materials:** CR | EPDM | FKM | NBR | PTFE/EPDM | PTFE/FKM | PTFE/PVDF/EPDM
- **Conformities:** CRN | EAC | FDA | TA Luft (German Clean Air Act)

Technical data depends on the respective configuration



Product description

Construction



Item	Name	Materials
1	Optical position indicator	PP red
2	Actuator	Cast iron, PP reinforced
3	Diaphragm	NBR FKM CR EPDM PTFE / EPDM (one-piece) PTFE / EPDM (two-piece) PTFE / FKM (two-piece) PTFE / PVDF / EPDM (three-piece)
4	Valve body	EN-GJL-250 (GG 25) EN-GJS-400-18-LT (GGG 40.3) EN-GJS-400-18-LT (GGG 40.3), PFA lined EN-GJS-400-18-LT (GGG 40.3), PP lined EN-GJS-400-18-LT (GGG 40.3), hard rubber lined EN-GJS-500-7 (GGG 50), PFA lined EN-GJS-500-7 (GGG 50), PP lined

Availability

Availability of valve bodies

Threaded connection, flange

MG	DN	Threaded connection	Flange																		
			Connection types code ¹⁾																		
		1, 31	8			38			39			51			53		56				
		Material code ²⁾																			
		90	90	17	18	83	17	18 ³⁾	83	90	17	18	83	17	81	91 ³⁾	8	17	17	81	91 ³⁾
25	15	X	X	X	X	X	-	-	-	X	X	X	X	-	-	-	X	-	-	-	-
	20	X	X	X	X	X	X	X	X	X	X	X	-	-	-	X	-	-	-	-	
	25	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	-	-	X	X	
40	32	X	X	X	X	X	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-
	40	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	-	-	X	X	
50	50	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	-	-	X	X	
	65	-	X	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	
65	65	-	-	X	X	X	X	X	X	-	X	X	X	-	-	-	X	-	-	-	-
80	80	-	X	X	X	X	X	X	X	X	X	X	-	X	X	X	-	-	X	X	
100	100	-	X	X	X	X	X	X	X	X	X	X	-	X	X	X	-	-	X	X	
	125	-	X	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	
125	125	-	-	X	-	X	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-
150	150	-	X	X	-	X	X	-	X	X	X	-	X	X	-	-	X	X	X	-	-

MG = diaphragm size

X = Standard

1) Connection type

Code 1: Threaded socket DIN ISO 228

Code 8: Flange EN 1092, PN 16, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D

Code 31: NPT female thread

Code 38: Flange ANSI Class 150 RF, length only for body configuration D acc. to MSS SP-88

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

Code 51: Flange BS 10 Table E, face-to-face dimension FTF EN 558 series 7, ISO 5752, basic series 7, length only for body configuration D

Code 53: Flange EN 1092, PN 16, form A, face-to-face dimension FTF EN 558 series 7, ISO 5752, basic series 7, length only for body configuration D

Code 56: Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 7, ISO 5752, basic series 7, length only for body configuration D

2) Valve body material

Code 8: EN-GJL-250 (GG 25)

Code 17: EN-GJS-400-18-LT (GGG 40.3), PFA lined

Code 18: EN-GJS-400-18-LT (GGG 40.3), PP lined

Code 81: EN-GJS-500-7 (GGG 50), PFA lined

Code 83: EN-GJS-400-18-LT (GGG 40.3), hard rubber lined

Code 90: EN-GJS-400-18-LT (GGG 40.3)

Code 91: EN-GJS-500-7 (GGG 50), PP lined

3) on request

Availability of actuator version

MG	DN	Actuator version
25	15 - 25	0KN
40	32 - 40	1KN
50	50 - 65	2KN

Availability

MG	DN	Actuator version
65	65	3/1, 3/2, 3/3, 3/D, 3/F, 3A1, 3A2, 3A3, 3AD, 3AF
80	80	3/2, 3/3, 3/D, 3/F, 3A2, 3A3, 3AD, 3AF, 4A2
100	100 - 125	3/3, 3/D, 3/F, 3A3, 3AD, 3AF, 4A3, 4AD, 4AF
125	125	4A2, 4A3, 4AD, 4AF
150	150	4A3, 4AD, 4AF

Order data

The order data provide an overview of standard configurations.

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

Order codes

1 Type	Code
Diaphragm valve, pneumatically operated, membrane actuator, cast iron distance piece	620

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

3 Body configuration	Code
2/2-way body	D

4 Connection type	Code
Threaded socket DIN ISO 228	1
NPT female thread	31
Flange	
Flange EN 1092, PN 16, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D	8
Flange ANSI Class 150 RF, length only for body configuration D acc. to MSS SP-88	38
Flange ANSI Class 125/150 RF, length only for body configuration D acc. to EN 558 series 1, ISO 5752, basic series 1	39
Flange BS 10 Table E, face-to-face dimension FTF EN 558 series 7, ISO 5752, basic series 7, length only for body configuration D	51
Flange EN 1092, PN 16, form A, face-to-face dimension FTF EN 558 series 7, ISO 5752, basic series 7, length only for body configuration D	53
Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 7, ISO 5752, basic series 7, length only for body configuration D	56

5 Valve body material	Code
Cast iron material	
EN-GJL-250 (GG 25)	8
SG iron material	
EN-GJS-400-18-LT (GGG 40.3), PFA lined	17
EN-GJS-400-18-LT (GGG 40.3), PP lined	18
EN-GJS-500-7 (GGG 50), PFA lined	81
EN-GJS-400-18-LT (GGG 40.3), hard rubber lined	83
EN-GJS-400-18-LT (GGG 40.3)	90
EN-GJS-500-7 (GGG 50), PP lined	91

6 Diaphragm material	Code
Elastomer	
NBR	2
FKM	4
CR	8
EPDM	29
PTFE	
PTFE/EPDM one-piece	54
PTFE/EPDM two-piece	5M
PTFE/FKM two-piece	5T
PTFE/PVDF/EPDM three-piece	71
Note: The PTFE/PVDF/EPDM diaphragm (code 71) can only be combined with PFA lined valve bodies.	

7 Control function	Code
Normally closed (NC)	1
Normally open (NO)	2
Double acting (DA)	3

8 Actuator version	Code
Clamp	
Plastic actuator material	
Membrane actuator, plastic, diameter of 130 mm	0KN
Clamp	
Plastic actuator material	
Membrane actuator, plastic, diameter of 171 mm	1KN
Clamp	
Plastic actuator material	
Membrane actuator, plastic, diameter of 211 mm	2KN
Clamp	
Plastic actuator material	
Actuator size 3/1	3/1
Actuator size 3/2	3/2

Order data

8 Actuator version	Code
Actuator size 3/3	3/3
Actuator size 3/D	3/D
Actuator size 3/F	3/F
Metal actuator material	
Actuator size 3A1	3A1
Actuator size 3A2	3A2
Actuator size 3A3	3A3
Actuator size 3AD	3AD
Actuator size 3AF	3AF
Clamp	
Plastic actuator material	
Actuator size 3/2	3/2
Actuator size 3/3	3/3
Actuator size 3/D	3/D
Actuator size 3/F	3/F
Metal actuator material	
Actuator size 3A2	3A2
Actuator size 3A3	3A3
Actuator size 3AD	3AD
Actuator size 3AF	3AF
Actuator size 4A2	4A2
Clamp	
Plastic actuator material	
Actuator size 3/3	3/3

8 Actuator version	Code
Actuator size 3/D	3/D
Actuator size 3/F	3/F
Metal actuator material	
Actuator size 3A3	3A3
Actuator size 3AD	3AD
Actuator size 3AF	3AF
Actuator size 4A3	4A3
Actuator size 4AD	4AD
Actuator size 4AF	4AF
Clamp	
Metal actuator material	
Actuator size 4A2	4A2
Actuator size 4A3	4A3
Actuator size 4AD	4AD
Actuator size 4AF	4AF
Clamp	
Metal actuator material	
Actuator size 4A3	4A3
Actuator size 4AD	4AD
Actuator size 4AF	4AF
9 Mounting type	Code
With NAMUR mounting bracket	N0
With NAMUR mounting bracket and handwheel	NH

Order example

Order option	Code	Description
1 Type	620	Diaphragm valve, pneumatically operated, membrane actuator, cast iron distance piece
2 DN	80	DN 80
3 Body configuration	D	2/2-way body
4 Connection type	8	Flange EN 1092, PN 16, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D
5 Valve body material	90	EN-GJS-400-18-LT (GGG 40.3)
6 Diaphragm material	29	EPDM
7 Control function	1	Normally closed (NC)
8 Actuator version	3/3	Actuator size 3/3
9 Mounting type		Without

Technical data

Medium

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

Control medium: Inert gases

Temperature

Media temperature:	NBR (code 2)	14 – 212 °F
	FKM (code 4)	14 – 194 °F
	CR (code 8)	14 – 212 °F
	EPDM (code 29)	14 – 212 °F
	PTFE / EPDM (code 54)	14 – 212 °F
	PTFE / EPDM (code 5M)	14 – 212 °F
	PTFE / FKM (code 5T)	14 – 212 °F
	PTFE / PVDF / EPDM (code 71)	14 – 212 °F

Control medium temperature: 32 – 104 °F

Ambient temperature: 32 – 140 °F

Storage temperature: 32 – 104 °F

Pressure

Operating pressure:

MG	DN	Control-function	Actuator-size	EPDM	PTFE
25	15 - 25	1, 2, 3	0KN	0 - 145	0 - 145
40	32 - 40	1, 2, 3	1KN	0 - 145	0 - 145
50	50 - 65	1, 2, 3	2KN	0 - 145	0 - 145
65	65	1	3/1	0 - 43	0 - 29
			3A1	0 - 43	0 - 29
			3/2	0 - 87	0 - 58
			3A2	0 - 87	0 - 58
			3/3	0 - 145	0 - 87
			3A3	0 - 145	0 - 87
		2	3/F, 3AF	0 - 145	0 - 87
3	3/D, 3AD	0 - 145	0 - 87		
80	80	1	3/2	0 - 43	0 - 29
			3A2	0 - 43	0 - 29
			3/3	0 - 105	0 - 72
			3A3	0 - 105	0 - 72
			4A2	0 - 145	0 - 87
		2	3/F, 3AF	0 - 145	0 - 87
		3	3/D, 3AD	0 - 145	0 - 87
100	100 - 125	1	3/3	0 - 87	0 - 58
			3A3	0 - 87	0 - 58
			4A3	0 - 145	0 - 87
		2	3/F	0 - 87	0 - 58
			3AF	0 - 87	0 - 58
			4AF	0 - 145	0 - 87
		3	3/D	0 - 87	0 - 58
			3AD	0 - 87	0 - 58
			4AD	0 - 145	0 - 87
125	125	1	4A2	0 - 72	0 - 43
			4A3	0 - 120	0 - 72
		2	4AF	0 - 145	0 - 87
		3	4AD	0 - 145	0 - 87
150	150	1	4A3	0 - 87	0 - 58
		2	4AF	0 - 72	0 - 72
		3	4AD	0 - 72	0 - 72

MG = diaphragm size

All pressures are psi - gauge pressures. Operating pressure values were determined with static operating pressure applied on one side of a closed valve. Sealing at the valve seat and atmospheric sealing is ensured for the given values.

Information on operating pressures applied on both sides and for high purity media on request.

Pressure rating:

PN 16

Leakage rate:

Leakage rate A (acc. to EN 12266-1)

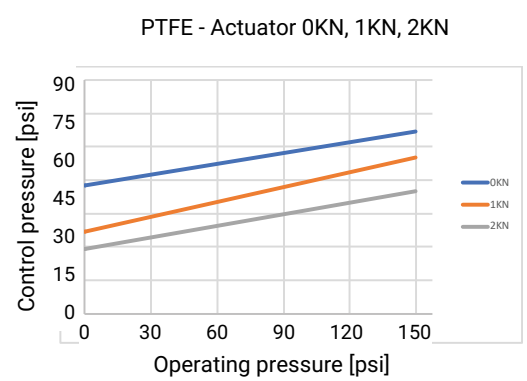
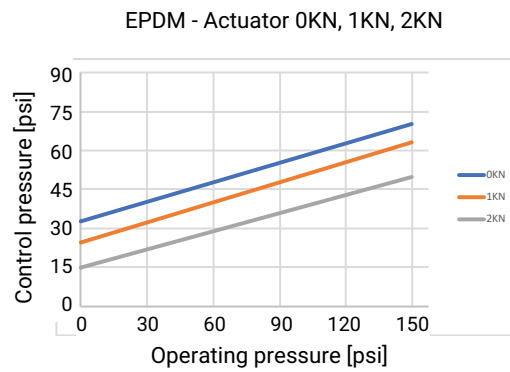
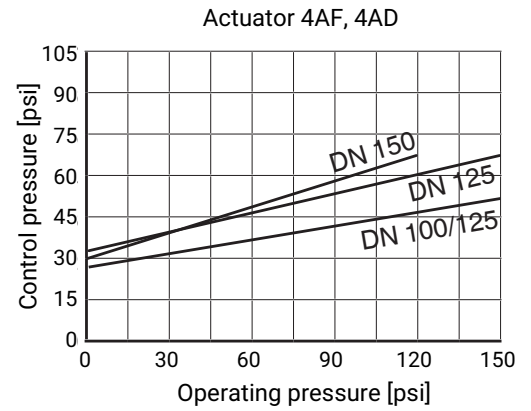
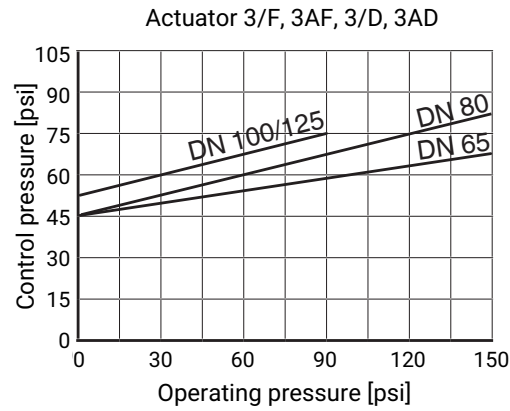
Control pressure:

MG	DN	Control function	Actuator size	Control pressure
25	15 - 25	1	0KN	80.0 - 105.0
		2	0KN	max. 80.0
		3	0KN	max. 80.0
40	32 - 40	1	1KN	80.0 - 105.0
		2	1KN	max. 80.0
		3	1KN	max. 80.0
50	50 - 65	1	2KN	80.0 - 105.0
		2	2KN	max. 72.0
		3	2KN	max. 72.0
65	65	1	3/1	37.7 - 105.0
			3A1	43.0 - 105.0
			3/2	65.0 - 105.0
			3A2	65.0 - 105.0
			3/3	80.0 - 105.0
			3A3	87.0 - 105.0
		2	3/F, 3AF	max. 65.3
		3	3/D, 3AD	max. 60.0
80	80	1	3/2	65.0 - 105.0
			3A2	72.0 - 105.0
			3/3	81.2 - 105.0
			3A3	94.3 - 105.0
			4A2	50.8 - 105.0
		2	3/F, 3AF	max. 80.0
		3	3/D, 3AD	max. 72.0
100	100 - 125	1	3/3	89.9 - 105.0
			3A3	94.3 - 105.0
			4A3	65.0 - 105.0
		2	3/F	max. 72.0
			3AF	max. 72.0
			4AF	max. 50.8
		3	3/D	max. 65.3
			3AD	max. 65.3
			4AD	max. 43.0
125	125	1	4A2	60.0 - 105.0
			4A3	80.0 - 105.0
		2	4AF	max. 65.3
		3	4AD	max. 60.0
150	150	1	4A3	80.0 - 105.0
		2	4AF	max. 65.3
		3	4AD	max. 60.0

MG = diaphragm size

Control pressure:

Control pressure/operating pressure diagram



Note: The above diagrams give the minimum control pressure for "normally open" actuators (control function 2) for different operating pressures.

Filling volume:

Actuator size 0	0.15 dm ³
Actuator size 1	0.35 dm ³
Actuator size 2	1.10 dm ³
Actuator size 3	2.50 dm ³
Actuator size 4	6.80 dm ³
Actuator size 0KN	0.16 dm ³
Actuator size 1KN	0.40 dm ³
Actuator size 2KN	0.69 dm ³

Filling volume:

MG	DN	SG iron 40.3 connection type 1, 31	SG iron 40.3 connection type 8, 39	PFA / PP	Hard rubber
25	15	8.0	10.0	5.0	6.0
	20	11.5	14.0	9.0	11.0
	25	11.5	17.0	13.0	15.0
40	32	28.0	36.0	23.0	29.0
	40	28.0	40.0	26.0	32.0
50	50	60.0	68.0	47.0	64.0
	65	-	68.0	-	-
65	65	-	-	72.0	80.0
80	80	-	130.0	110.0	128.0
100	100	-	200.0	177.0	190.0
	125	-	200.0	-	-
125	125	-	-	214.0	230.0
150	150	-	484.0	365.0	397.0

MG = diaphragm size, Kv values in m³/h

Kv values determined in accordance with DIN EN 60534, inlet pressure 5 bar, Δp 1 bar, with connection flange EN 1092 length EN 558 series 1 (or threaded socket DIN ISO 228 for body material GGG40.3) and soft elastomer diaphragm. The Kv values for other product configurations (e.g. other diaphragm or body materials) may differ. In general, all diaphragms are subject to the influences of pressure, temperature, the process and their tightening torques. Therefore the Kv values may exceed the tolerance limits of the standard.

The Kv value curve (Kv value dependent on valve stroke) can vary depending on the diaphragm material and duration of use.

Product compliance

Pressure Equipment Directive: 2014/68/EU

Machinery Directive: 2006/42/EC

Food: FDA*
Regulation (EC) No. 1935/2006
Regulation (EC) No. 10/2011*

EAC: TR CU 010/2011

TA Luft (German Clean Air Act): USP
USP

* see availability

Mechanical data

Weight:

Actuator

MG	Actuator size	Control function	Weight
25	0KN	1	4.85
	0KN	2 + 3	3.75
40	1KN	1	10.36
	1KN	2 + 3	6.83
50	2KN	1	15.21
	2KN	2 + 3	11.46
65	3/1	1	31.75
	3/2		33.29
	3/3		34.83
	3A1		52.47
	3A2		54.23
	3A3		56.88
	3/F – 3/D	2 + 3	30.86
	3AF – 3AD		40.12
80	3/2	1	36.38
	3/3		37.92
	3A2		58.20
	3A3		60.41
	4A2		120.59
	3/F – 3/D	2 + 3	33.51
	3AF – 3AD		44.09
100	3/3	1	39.24
	3A3		61.95
	4A3		139.55
	3/F – 3/D	2 + 3	35.27
	3AF – 3AD		46.30
	4AF – 4AD		77.16
125	4A2	1	127.87
	4A3		145.51
	4AF – 4AD	2 + 3	77.16
150	4A3	1	147.71
	4AF – 4AD	2 + 3	99.21

MG = diaphragm size
Weight in lb

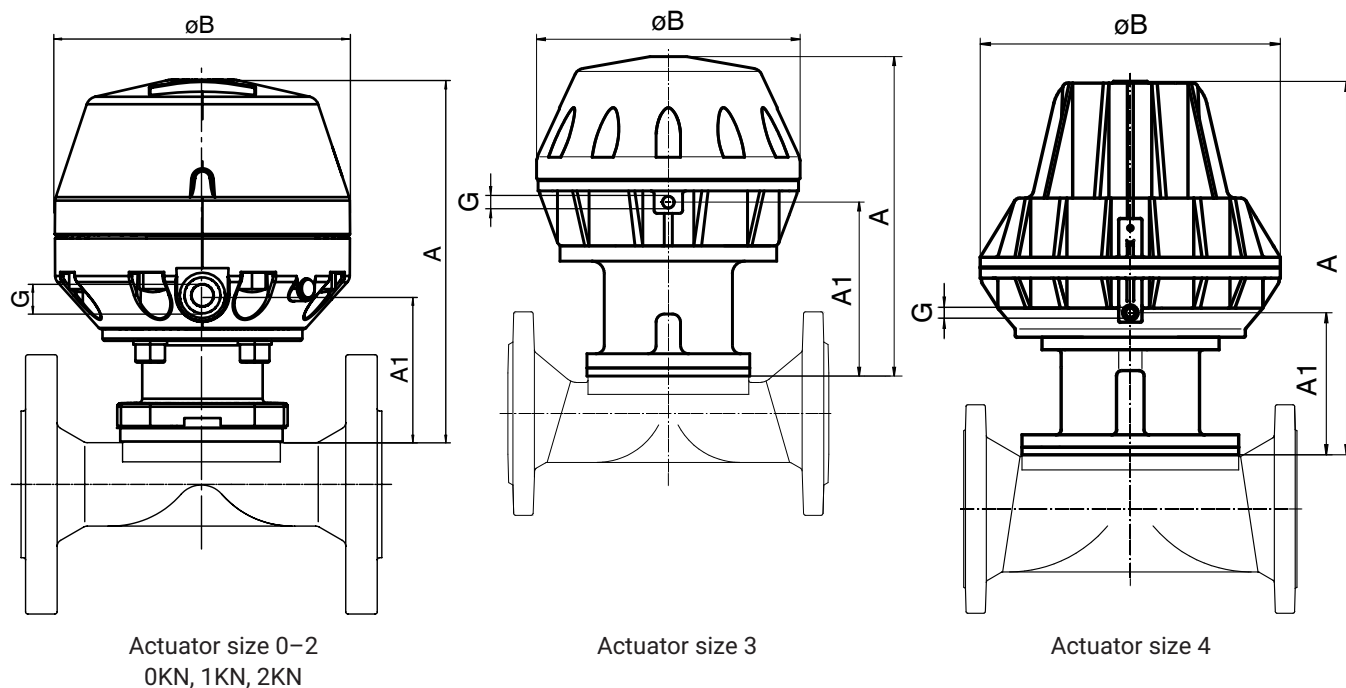
Weight:**Body**

MG	DN	Threaded socket	Flange
		Connection types code	
		1, 31	8, 38, 39, 51, 53, 56
25	15	1.10	3.31
	20	1.32	4.85
	25	1.98	6.17
40	32	3.09	7.50
	40	4.19	9.92
50	50	5.95	13.89
	65	-	22.71
80	80	-	30.42
100	100	-	45.86
	125	-	57.98
150	150	-	82.23

Dimensions

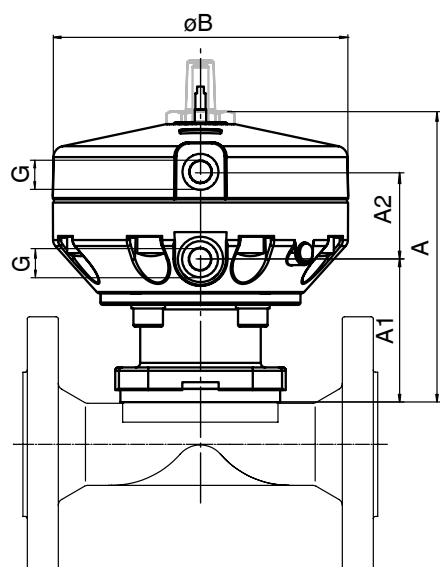
Actuator dimensions

Control function 1

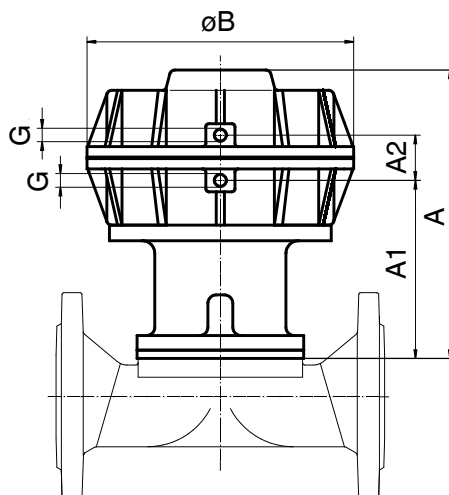


MG	DN	Actuator version	$\varnothing B$	A	A1	G
25	15 - 25	0KN	5.12	6.69	2.32	G 1/4
40	32 - 40	1KN	6.73	8.19	2.95	G 1/4
50	50 - 65	2KN	8.31	9.61	3.54	G 1/4
65	65	3/1	10.20	13.11	6.81	G 1/4
		3/2	10.20	13.11	6.81	
		3/3	10.20	13.11	6.81	
		3A1	10.08	12.09	6.77	
		3A2	10.08	12.09	6.77	
		3A3	10.08	12.09	6.77	
80	80	3/2	10.20	13.11	6.81	G 1/4
		3/3	10.20	13.11	6.81	
		3A2	10.08	12.09	6.77	
		3A3	10.08	12.09	6.77	
		4A2	14.17	17.28	6.26	
100	100 - 125	3/3	10.20	13.11	6.81	G 1/4
		3A3	10.08	12.09	6.77	
		4A3	14.17	17.28	6.26	
125	125	4A2	14.17	17.76	6.73	G 1/4
		4A3	14.17	17.76	6.73	
150	150	4A3	14.17	17.32	6.30	G 1/4

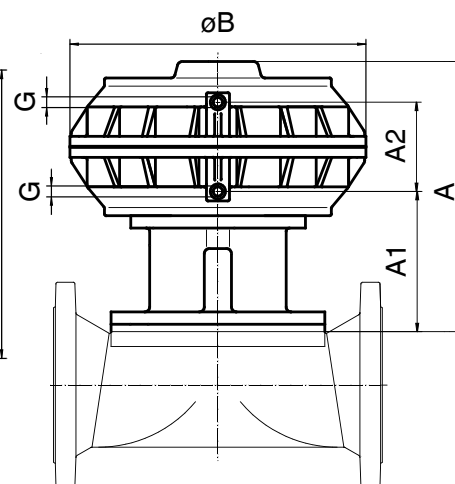
Dimensions in inch
MG = diaphragm size

Control functions 2 + 3

Actuator size 0 – 2
0KN, 1KN, 2KN



Actuator size 3



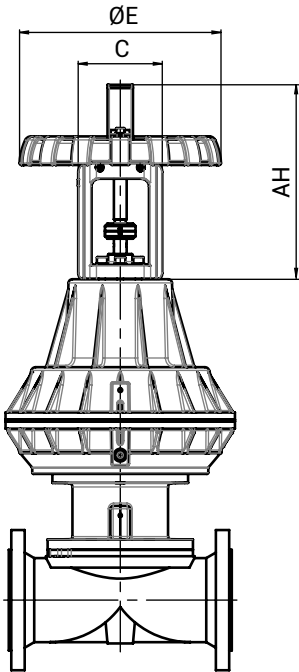
Actuator size 4

MG	DN	Actuator size	ø B	A	A1	A2	G
25	15 - 25	0KN	5.12	5.79	2.32	1.54	G 1/4
40	32 - 40	1KN	6.73	6.81	2.95	1.65	G 1/4
50	50 - 65	2KN	8.31	8.11	3.54	1.85	G 1/4
65	65	3/F - 3/D	10.16	11.18	6.69	1.77	G 1/4
		3AF - 3AD	10.16	11.18	6.69	1.77	G 1/4
80	80	3/F - 3/D	10.08	11.10	6.65	1.77	G 1/4
		3AF - 3AD	10.08	11.10	6.65	1.77	G 1/4
100	100 - 125	3/F - 3/D	10.08	11.10	6.65	1.77	G 1/4
		3AF - 3AD	10.08	11.10	6.65	1.77	G 1/4
		4AF - 4AD	14.17	12.68	6.14	4.29	G 1/4
125	125	4AF - 4AD	14.17	13.15	6.61	4.29	G 1/4
150	150	4AF - 4AD	14.17	12.72	6.14	4.29	G 1/4

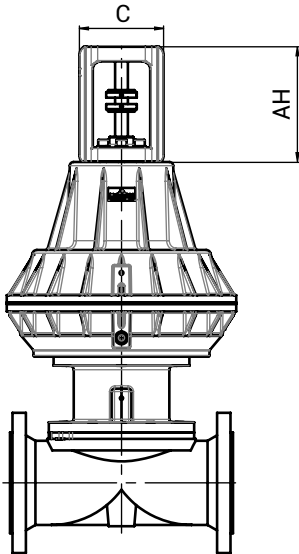
Dimensions in inch

MG = diaphragm size

Mounting type with NAMUR mounting bracket



Control function 1
Mounting type with NAMUR mounting
bracket and handwheel (code NH)



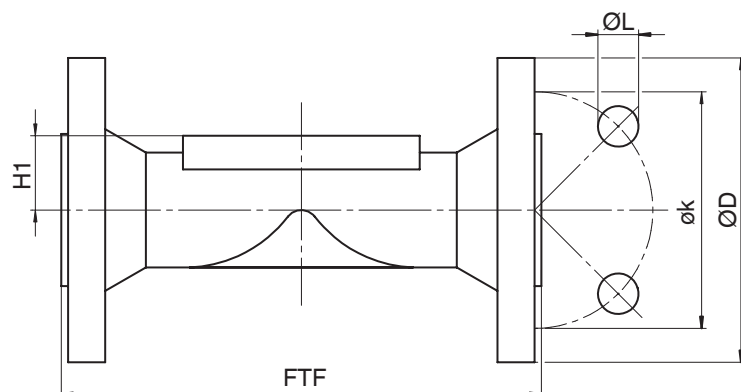
Control function 1
Mounting type with NAMUR mounting
bracket (code N0)

MG	DN	AH		C	ØE
		Mounting type code N0	Mounting type code NH		
65 - 150	65 - 150	7.13	12.01	5.20	12.44

Dimensions in inch
MG = diaphragm size

Body dimensions

Flange EN (code 8)



MG	DN	Connection type code 8 ¹⁾							
		Material code ²⁾							
						17, 18, 83	90	17, 18, 83	90
		øD	øk	øL	n	H1	H1	FTF	FTF
25	15	3.74	2.56	5.51	4	7.09	0.55	5.12	5.12
	20	4.18	2.95	5.51	4	8.07	0.65	5.91	5.91
	25	4.53	3.35	5.51	4	9.06	0.77	6.30	6.30
40	32	5.51	3.94	7.48	4	11.3	0.91	7.09	7.09
	40	5.91	4.33	7.48	4	12.99	1.06	7.87	7.87
50	50	6.50	4.92	7.48	4	15.35	1.26	9.06	9.06
	65	7.28	5.71	19.0	4	-	1.52	-	11.42
65	65	7.28	5.71	7.48	4	20.08	-	11.42	-
80	80	7.87	6.30	7.48	8	23.43	1.24	12.20	12.20
100	100	8.66	7.09	7.48	8	28.74	1.69	13.78	13.78
	125	9.84	8.27	19.0	8	-	2.28	-	15.75
125	125	9.84	8.27	7.48	8	34.25	-	15.75	-
150	150	11.22	9.45	9.06	8	42.91	2.28	18.90	18.90

Dimensions in inch

MG = diaphragm size

n = number of bolts

1) Connection type

Code 8: Flange EN 1092, PN 16, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1, length only for body configuration D

2) Valve body material

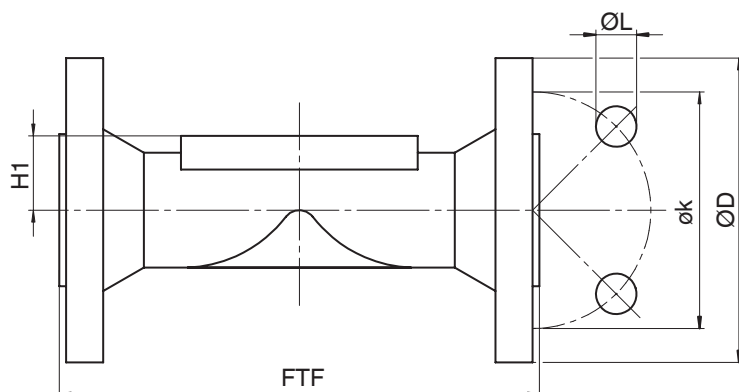
Code 17: EN-GJS-400-18-LT (GGG 40.3), PFA lined

Code 18: EN-GJS-400-18-LT (GGG 40.3), PP lined

Code 83: EN-GJS-400-18-LT (GGG 40.3), hard rubber lined

Code 90: EN-GJS-400-18-LT (GGG 40.3)

Flange EN (code 53)



MG	DN	Connection type code 53 ¹⁾								
		Material code ²⁾								
		8	17				8	17	8	17
		øD	øD	øk	øL	n	H1	H1	FTF	FTF
25	15	3.74	-	2.56	5.51	4	7.48	-	4.61	-
	20	4.18	-	2.95	5.51	4	7.48	-	4.61	-
	25	4.53	-	3.35	5.51	4	7.48	-	5.00	-
40	32	5.51	-	3.94	7.48	4	11.02	-	-	-
	40	5.91	-	4.33	7.48	4	11.02	-	6.26	-
50	50	6.50	-	4.92	7.48	4	13.78	-	7.52	-
65	65	7.28	-	5.71	7.48	4	10.83	-	8.50	-
80	80	7.87	-	6.30	7.48	8	12.99	-	10.00	-
100	100	8.66	-	7.09	7.48	8	16.93	-	12.01	-
125	125	9.84	-	8.27	7.48	8	25.59	-	14.02	-
150	150	11.22	110.24 ³⁾	9.45	9.06	8	22.83	4.29	15.98	16.38

n = number of bolts

1) Connection type

Code 53: Flange EN 1092, PN 16, form A, face-to-face dimension FTF EN 558 series 7, ISO 5752, basic series 7, length only for body configuration D

2) Valve body material

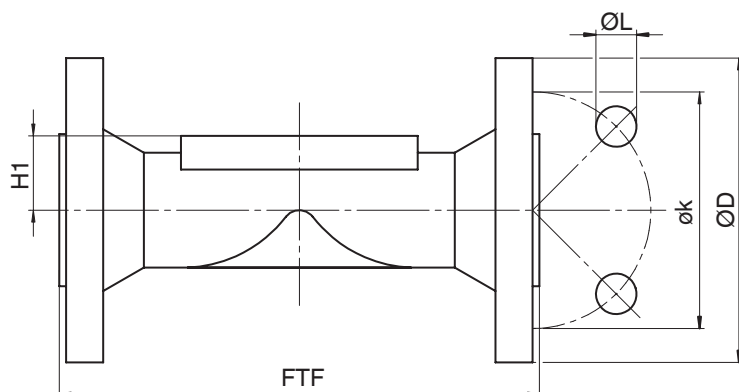
Code 8: EN-GJL-250 (GG 25)

Code 17: EN-GJS-400-18-LT (GGG 40.3), PFA lined

3) Diameter deviates from standard

Dimensions in inch

MG = diaphragm size

Flange ANSI Class (code 38, 39)

MG	DN	Connection types code ¹⁾									
								38	38	39	39
		Material code ²⁾									
						17, 18, 83	90	17, 18	83	17, 18, 83	90
		øD	øk	øL	n	H1	H1	FTF	FTF	FTF	FTF
25	15	3.54	2.37	6.26	4	7.09	0.55	-	-	5.12	5.12
	20	3.94	2.75	6.26	4	8.07	0.65	5.75	5.76	5.91	5.91
	25	4.33	3.13	6.26	4	9.06	0.77	5.75	5.76	6.30	6.30
40	32	4.53	3.50	6.26	4	11.3	0.91	-	-	7.09	7.09
	40	4.92	3.87	6.26	4	12.99	1.06	6.89	6.75	7.87	7.87
50	50	5.91	4.75	7.48	4	15.35	1.26	7.87	7.77	9.06	9.06
	65	7.09	5.50	19.0	4	-	1.52	-	-	-	11.42
65	65	7.09	5.50	7.48	4	20.08	-	8.90	8.76	11.42	-
80	80	7.48	6.00	7.48	4	23.43	1.24	10.24	10.25	12.20	12.20
100	100	9.06	7.50	7.48	8	28.74	1.69	12.87	12.77	13.78	13.78
	125	10.04	8.50	22.2	8	-	2.28	-	-	-	15.75
125	125	10.04	8.50	8.74	8	34.25	-	-	-	15.75	-
150	150	11.02	9.50	8.74	8	42.91	2.28	16.38	16.38	18.90	18.90

n = number of bolts

1) Connection type

Code 38: Flange ANSI Class 150 RF, length only for body configuration D acc. to MSS SP-88

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

2) Valve body material

Code 17: EN-GJS-400-18-LT (GGG 40.3), PFA lined

Code 18: EN-GJS-400-18-LT (GGG 40.3), PP lined

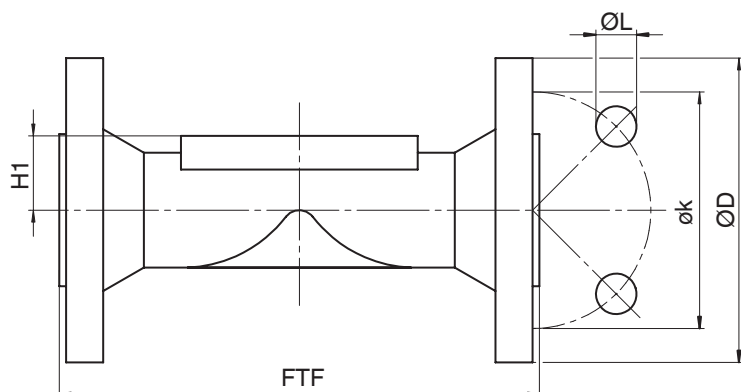
Code 83: EN-GJS-400-18-LT (GGG 40.3), hard rubber lined

Code 90: EN-GJS-400-18-LT (GGG 40.3)

Dimensions in inch

MG = diaphragm size

Flange ANSI Class (code 56)



MG	DN	Connection type code 56 ¹⁾							
		Material code ²⁾							
						17	81, 91	17	81, 91
		øD	øk	øL	n	H1	H1	FTF	FTF
25	25	4.33	3.13	6.26	4	-	0.91	-	5.0
40	40	4.92	3.87	6.26	4	-	1.26	-	6.50
50	50	5.91	4.75	7.48	4	-	1.57	-	7.52
80	80	7.48	6.00	7.48	4	-	2.28	-	10.0
100	100	9.06	7.50	7.48	8	-	2.76	-	12.24
150	150	11.02	9.50	8.74	8	4.29	-	16.38	-

n = number of bolts

1) Connection type

Code 56: Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 7, ISO 5752, basic series 7, length only for body configuration D

2) Valve body material

Code 17: EN-GJS-400-18-LT (GGG 40.3), PFA lined

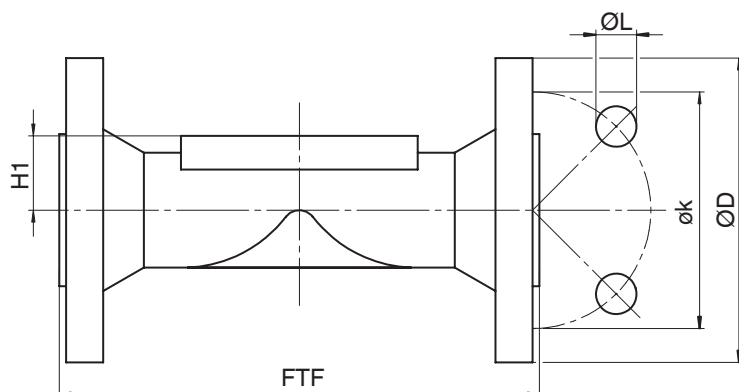
Code 81: EN-GJS-500-7 (GGG 50), PFA lined

Code 91: EN-GJS-500-7 (GGG 50), PP lined

Dimensions in inch

MG = diaphragm size

Flange BS (code 51)



MG	DN	Connection type code 51 ¹⁾							
		Material code ²⁾							
						17	81, 91	17	81, 91
		øD	øk	øL	n	H1	H1	FTF	FTF
25	25	4.49	3.27	5.51	4	-	0.91	-	5.0
40	40	4.92	3.86	5.51	4	-	1.26	-	6.50
50	50	5.98	4.49	6.69	4	-	1.57	-	7.52
80	80	7.24	5.75	6.69	4	-	2.28	-	10.0
100	100	8.50	7.01	6.69	8	-	2.76	-	12.24
150	150	10.98	9.25	8.66	8	4.29	-	16.38	-

n = number of bolts

1) Connection type

Code 51: Flange BS 10 Table E, face-to-face dimension FTF EN 558 series 7, ISO 5752, basic series 7, length only for body configuration D

2) Valve body material

Code 17: EN-GJS-400-18-LT (GGG 40.3), PFA lined

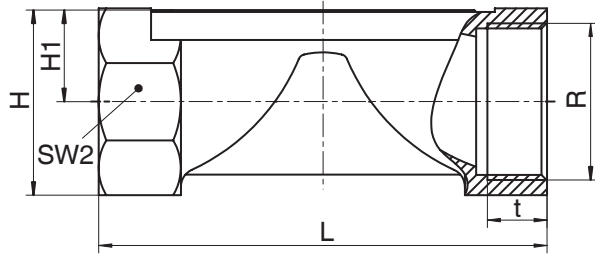
Code 81: EN-GJS-500-7 (GGG 50), PFA lined

Code 91: EN-GJS-500-7 (GGG 50), PP lined

Dimensions in inch

MG = diaphragm size

Threaded socket DIN (code 1)



Connection type threaded socket (code 1)¹⁾, SG iron material (code 90)²⁾

MG	DN	NPS	H	H1	L	n	R	SW 2	t
25	15	1/2"	1.29	0.66	3.35	6	G 1/2	32	0.59
	20	3/4"	1.65	0.85	3.35	6	G 3/4	41	0.64
	25	1"	1.84	0.93	4.33	6	G 1	46	0.75
40	32	1 1/4"	2.20	1.12	4.72	6	G 1 1/4	55	0.84
	40	1 1/2"	2.60	1.32	5.51	6	G 1 1/2	65	0.84
50	50	2"	2.99	1.52	6.50	6	G 2	75	1.01

n = number of flats

1) **Connection type**

Code 1: Threaded socket DIN ISO 228

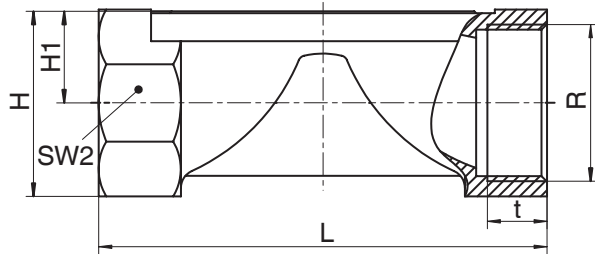
2) **Valve body material**

Code 90: EN-GJS-400-18-LT (GGG 40.3)

Dimensions in inch

MG = diaphragm size

Threaded socket NPT (code 31)



Connection type threaded socket NPT (code 31)¹⁾, SG iron material (code 90)²⁾

MG	DN	NPS	H	H1	L	n	R	SW 2	t
25	15	1/2"	1.29	0.66	3.35	6	NPT 1/2	32	0.54
	20	3/4"	1.65	0.85	3.35	6	NPT 3/4	41	0.56
	25	1"	1.84	0.93	4.33	6	NPT 1	46	0.66
40	32	1 1/4"	2.20	1.12	4.72	6	NPT 1 1/4	55	0.68
	40	1 1/2"	2.60	1.32	5.51	6	NPT 1 1/2	65	0.68
50	50	2"	2.99	1.52	6.50	6	NPT 2	75	0.70

Dimensions in inch

MG = diaphragm size

n = number of flats

1) **Connection type**

Code 31: NPT female thread

2) **Valve body material**

Code 90: EN-GJS-400-18-LT (GGG 40.3)

Accessories



GEMÜ 1450

NAMUR mounting bracket

GEMÜ 1450 is a NAMUR mounting bracket for pneumatically operated linear actuators. The product is available either with or without handwheel (incl. optical position indicator) as a manual override. It has height adjustable trip cams. The mounting parts are included.



GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Fritz-Müller-Straße 6-8, 74653 Ingelfingen-Criesbach, Germany
Tel. +49 (0)7940 123-0 · info@gemue.de
www.gemu-group.com