

## Angle Seat Globe Valve, Metal

### Construction

The GEMÜ 550 pneumatically operated 2/2 way angle seat globe valve has a low maintenance piston actuator. The valve spindle is sealed by a self-adjusting gland packing providing low maintenance and reliable valve spindle sealing even after a long service life. The wiper ring fitted in front of the gland packing protects it against contamination and damage.

### Features

- Suitable for inert and corrosive\* liquid and gaseous media
- Substantially reduced installation dimensions when using the body with male threads which can be installed using union nuts
- Materials of all medium wetted parts can be selected to suit relevant applications
- Higher media temperatures
- Versions according to ATEX on request

### Advantages

- Stainless steel actuator for simple cleanability, corrosive atmospheres
- Various types of valve body connections
- Good flow capability
- Low weight
- Optical position indicator is standard for NC control function (optional for NO and DA control functions).
- Accessories:
  - Electrical position indicators
  - Combi switchboxes
  - Electro-pneumatic positioners/process controllers (see data sheet GEMÜ 550 control valve)
  - Stroke limiter
- Suitable for contact with food according to Regulation (EC) No. 1935/2004
- Standard gland packing suitable for vacuum up to 0,59 in Hg (abs.)

\*See information on working medium on page 2

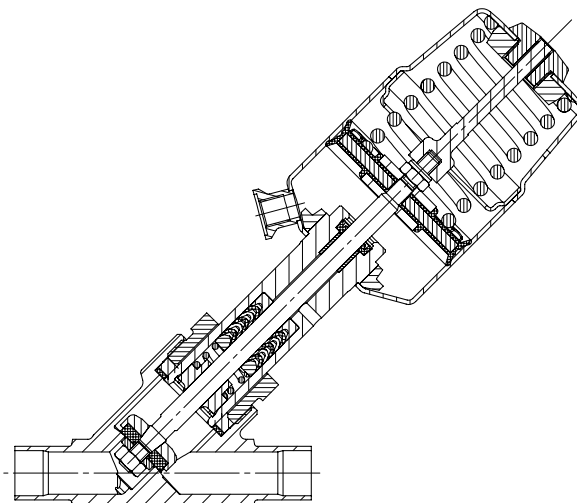


Actuator 0 and 1



Actuator 2 to 5

### Sectional drawing



## Technical data

### Working medium

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

Max. perm. pressure of working medium see table

Medium temperature 14 °F to 356 °F

Max. permissible viscosity 600 mm<sup>2</sup>/s (cSt)

Other versions for lower/higher temperatures and viscosities on request.

### Control medium

Inert gases

Max. control pressure: 116 psi

Max. perm. temperature of control medium: 140 °F

### Ambient conditions

Max. ambient temperature 140 °F

### Technical data / Actuator

Actuator size	Filling volume	Piston diameter
0G1, 0M1	0.37 cu in	1.1 in
1G1, 1M1	1.53 cu in	1.65 in
2G1, 2M1	5.13 cu in	2.36 in
3G1, 3M1	14.95 cu in	3.15 in
4G1	26.67 cu in	3.94 in
5G1	48.7 cu in	5.12 in

### Maximum permissible seat leakage rate

Seat seal	Standard	Test procedure	Leakage rate	Test medium
PTFE	DIN EN 12266-1	P12	A	air

### Max. operating pressure [psi]

Actuator size	DN 6	DN 8	DN 10	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80
<b>C. f. 1 Normally closed (NC) / Flow direction: under the seat</b>											
0G1	150	150	150	150	-	-	-	-	-	-	-
1G1	-	150	150	150	90	51	-	-	-	-	-
2G1	-	-	319	319	174	105	60	36	-	-	-
3G1	-	-	-	-	363	232	145	90	45	-	-
4G1	-	-	-	-	-	363	261	174	105	-	-
5G1	-	-	-	-	-	-	363	290	218	150	105
<b>C. f. 1 Normally closed (NC) / Flow direction: over the seat</b>											
0M1	150	150	150	150	-	-	-	-	-	-	-
1M1	-	150	150	150	150	150	-	-	-	-	-
2M1	-	-	-	150	150	150	150	120	75	-	-
3M1	-	-	-	-	150	150	150	150	150	-	-
<b>C. f. 2 Normally open (NO) / C. f. 3 Double acting (DA) / Flow direction: under the seat</b>											
0G	290	290	290	290							
1G	-	363	363	363	247	160	-	-	-	-	-
2G	-	-	-	363	363	348	218	120	-	-	-
3G	-	-	-	-	363	363	363	276	174	-	-
4G	-	-	-	-	-	-	363	363	319	-	-
5G	-	-	-	-	-	-	363	363	363	363	261

All pressures are gauge pressures. When the flow is over the plug (M), there may be the danger of water hammer with liquid media! For max. operating pressures the pressure/temperature correlation must be observed (see table on page 3).

## Technical data

### Control pressure [psi]

#### C. f. 1 Normally closed (NC) / Flow direction: under the seat

Actuator size	Control pressure [psi]
1G1, 2G1, 3G1, 4G1	60 - 120
0G1, 5G1	75 - 120

#### C. f. 1 Normally closed (NC) / Flow direction: over the seat

0M1, 1M1, 2M1, 3M1	max. 105 psi
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Higher control pressures on request.

#### C. f. 2 Normally open (NO) / C. f. 3 Double acting (DA) / Flow direction: under the seat

for values see diagram see page 5

### Cv values [gpm]

	DN 6	DN 8	DN 10	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80
Butt weld spigots, DIN 11850	1.9	2.1	2.8	2.8	-	-	-	-	-	-	-
Butt weld spigots, DIN 11866	-	2.6	5.3	6.4	13.7	24	38.6	59.7	71.4	128.7	136.9
Threaded sockets, DIN ISO 228	-	-	5.3	6.3	11.7	17.8	26.9	48	79.6	111.2	152.1

Cv values determined with 1 psi pressure drop across valve. The Cv value data refers to control function 1 (NC) and the largest actuator for each nominal size.

The Cv values for other product configurations (e.g. other connections or body materials) may differ.

### Pressure / temperature correlation for angle seat globe valve bodies

Connection code	Material code	Max. allowable operating pressures in psi at temperature °F*					
		RT	212	302	392	482	572
1, 9, 17, 37, 60, 63, 3C, 3D	37	77	345	310	274	254	234
0, 16, 17, 37, 59, 60, 65	34	77	355	325	294	264	234
13 (DN 15 - DN 50)	34	77	342	312	287	270	249
80, 88 (DN 15 - DN 40)	34	77	307	280**	-	-	-
80, 88 (DN 50 - DN 80)	34	61	232	232**	-	-	-
82 (DN 15 - DN 32)	34	77	307	280**	-	-	-
82 (DN 40 - DN 65)	34	61	232	232**	-	-	-
86 (DN 15 - DN 40)	34	77	307	280**	-	-	-
86 (DN 50 - DN 65)	34	61	232	232**	-	-	-
10 (DN 15 - DN 50)	37	77	363	329	305	287	268
47 (DN 15 - DN 50)	34	61	193	174	161	148	141
0, 16, 17, 59, 60	40	77	299	271	248	229	215
17, 59, 60	C2	77	307	280	260	244	231

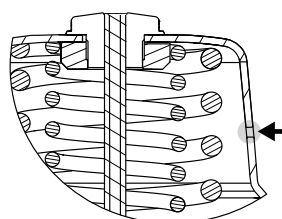
\* The valves can be used down to 14 °F  
All pressures are gauge pressures.

\*\* max. temperature 284 °F

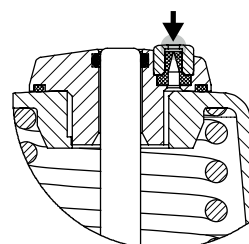
RT = Room Temperature

### Bleed hole in the actuator

To bleed the control medium, the pneumatic actuator has a bleed hole that is located on the side of the actuator housing (control function normally closed). In certain areas of application (e.g. the foodstuff industry), dirty water or cleaning media could enter through this bleed hole and penetrate the actuator, thereby adversely affecting correct operation. A special bleed system with lip check valve is available for these applications, which prevents such functional impairment. The bleed hole at the side is then closed.



Standard bleed hole

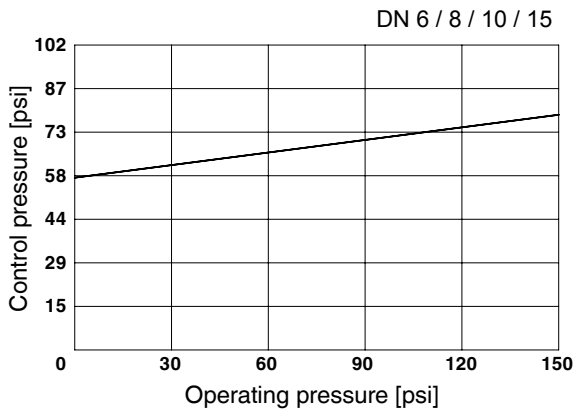


Special bleed system  
K no. 6996

**Operating pressure / Control pressure characteristics**  
**Control function 1: normally closed (NC) / Flow direction: over the seat**

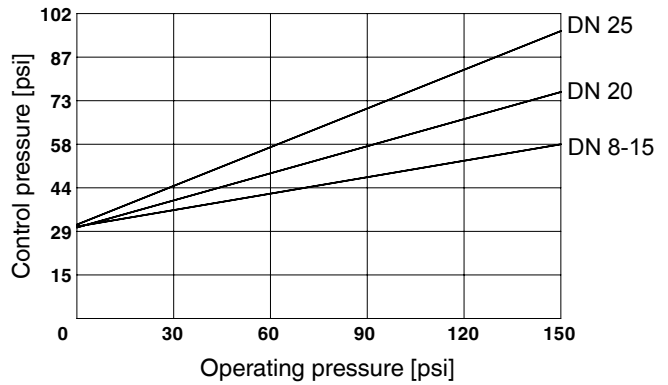
**Actuator size 0M1**

Min. control pressure dependent on operating pressure



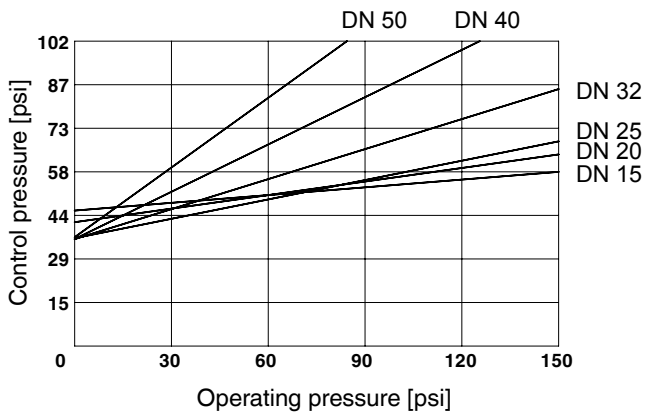
**Actuator size 1M1**

Min. control pressure dependent on operating pressure



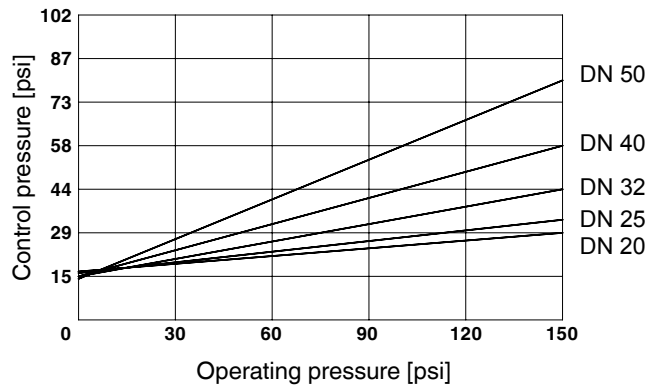
**Actuator size 2M1**

Min. control pressure dependent on operating pressure



**Actuator size 3M1**

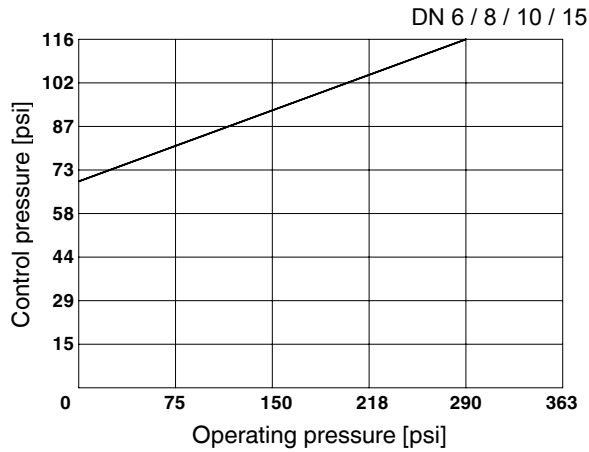
Min. control pressure dependent on operating pressure



**Operating pressure / Control pressure characteristics**  
**Control function 2: normally open (NO) / Control function 3: double acting (DA)**  
**Flow direction: under the seat**

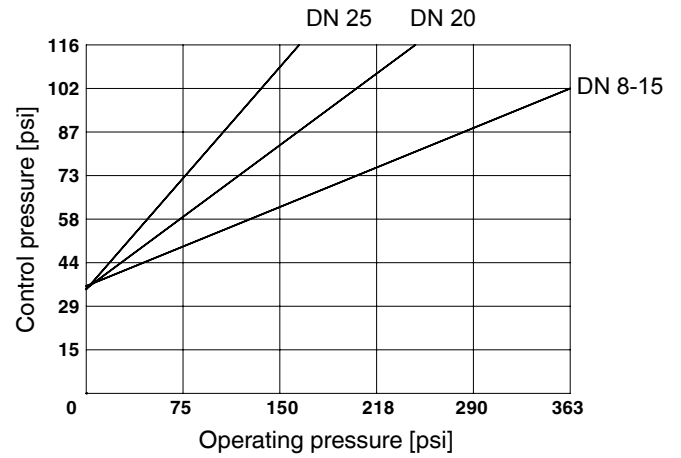
**Actuator size 0G1**

Min. control pressure dependent on operating pressure



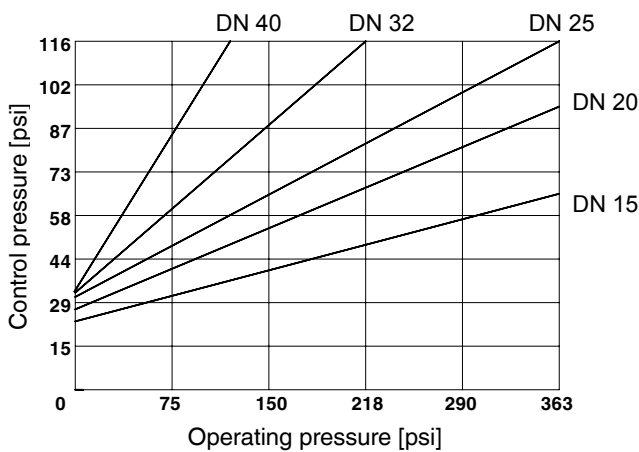
**Actuator size 1G1**

Min. control pressure dependent on operating pressure



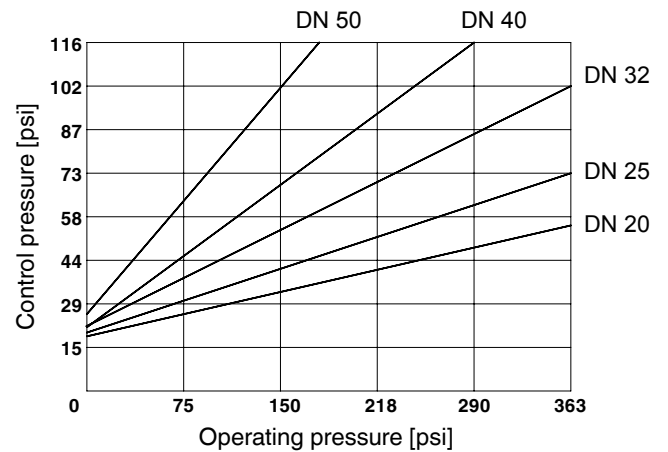
**Actuator size 2G1**

Min. control pressure dependent on operating pressure



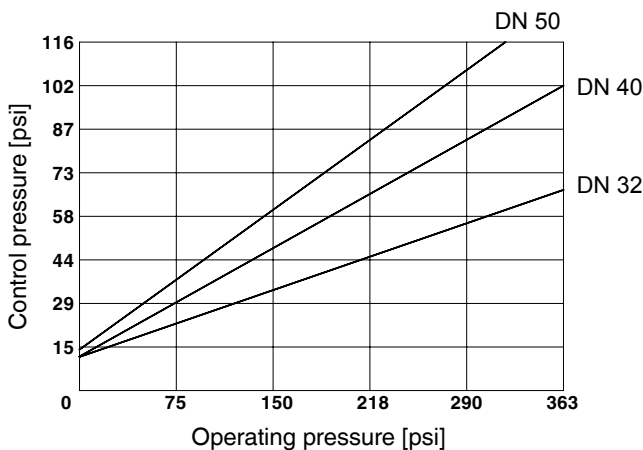
**Actuator size 3G1**

Min. control pressure dependent on operating pressure



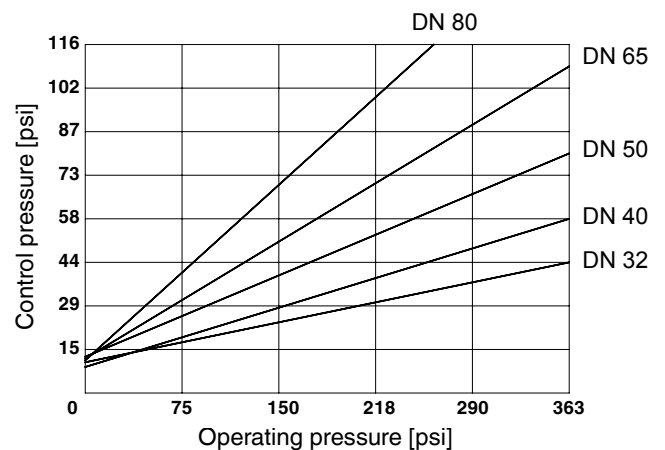
**Actuator size 4G1**

Min. control pressure dependent on operating pressure



**Actuator size 5G1**

Min. control pressure dependent on operating pressure



## Order data

Nominal size		Code
DN 6	NPS 1/8"	6
DN 8	NPS 1/4"	8
DN 10	NPS 3/8"	10
DN 15	NPS 1/2"	15
DN 20	NPS 3/4"	20
DN 25	NPS 1"	25
DN 32	NPS 1 1/4"	32
DN 40	NPS 1 1/2"	40
DN 50	NPS 2"	50
DN 65	NPS 2 1/2"	65
DN 80	NPS 3"	80

Body configuration	Code
2/2-way body	D
Angle body only in material code 37 (DN 15 - 50)	E

Valve body material	Code
1.4435 (ASTM A 351 CF3M $\cong$ 316L), Investment casting	34
1.4408, Investment casting	37
1.4435 (316 L), Forged body	40
1.4435, Investment casting Material equivalency 316L	C2*

\* A surface finish from the order code table „K number“ must be specified for valve body material C2.

Seat seal	Code
PTFE	5
PTFE, glass fibre reinforced	5G
PTFE, USP Class VI	5P

Connection		Code
<b>Butt weld spigots</b>		
Spigots DIN		0
Spigots EN 10357 series B		16
Spigots EN 10357 series A (formerly DIN 11850 series 2) / DIN 11866 series A		17
Spigots SMS 3008		37
Spigots ASME BPE		59
Spigots ISO 1127 / EN 10357 series C / DIN 11866 series B		60
Spigots ANSI/ASME B36.19M Schedule 10s		63
Spigots ANSI/ASME B36.19M Schedule 40s		65
<b>Threaded connections</b>		
Threaded sockets DIN ISO 228		1
Threaded socket Rc ISO 7-1, EN 10226-1, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8		3C
Threaded spigots DIN ISO 228		9
Threaded sockets NPT length DIN 3202-4 series M8		3D
<b>Flanges</b>		
Flanges EN 1092 / PN25 / form B, length EN 558, series 1		10
Flanges EN 1092 / PN25 /form B, length see body dimensions		13
Flanges ANSI Class 125/150 RF, length see body dimensions		47
<b>Clamp connections</b>		
Clamps ASME BPE for pipe ASME BPE, length ASME BPE		80
Clamps DIN 32676 series B for pipe EN ISO 1127, length EN 558, series 1		82
Clamps DIN 32676 series A for pipe DIN 11850, length EN 558, series 1		86
Clamps ASME BPE for pipe ASME BPE, length EN 558, series 1		88

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

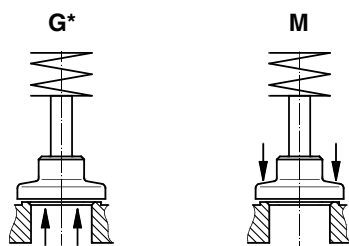
Actuator size			Code
Actuator 0	piston $\varnothing$	1.1 in	0
Actuator 1	piston $\varnothing$	1.65 in	1
Actuator 2	piston $\varnothing$	2.36 in	2
Actuator 3	piston $\varnothing$	3.15 in	3
Actuator 4	piston $\varnothing$	3.94 in	4
Actuator 5	piston $\varnothing$	5.12 in	5

For further order data see page 7

## Order data

Flow direction	Code
Under the seat	G*
Over the seat	M**
** only control function NC	

Spring set	Code
Standard	1



\* Preferred flow direction with incompressible media to avoid "water hammer"

Version	Code
Media temperature 14 to 410 °F (only with seat seal Code 5G and 10)	2023
Special bleed system in the actuator	6996
All special versions only available ex works	
Surface finish for valve body material C2	
Ra ≤ 0,6 µm (25 µinch) for process contact surfaces, in accordance with ASME BPE SF2 + SF3, mechanically polished internal	1903
Ra ≤ 0,8 µm (30 µinch) for process contact surfaces, in accordance with DIN 11866 H3, mechanically polished internal	1904
Ra ≤ 0,4 µm (15 µinch) for process contact surfaces, in accordance with DIN 11866 H4, ASME BPE SF1, mechanically polished internal	1909
Ra ≤ 0,6 µm for process contact surfaces, in accordance with ASME BPE SF6, electropolished internal/external	1953
Ra ≤ 0,8 µm for process contact surfaces, in accordance with DIN 11866 HE3, electropolished internal/external	1954
Ra ≤ 0,4 µm for process contact surfaces, in accordance with DIN 11866 HE4/ASME BPE SF5, electropolished internal/external	1959

Order example	550	15	D	1	37	5	1	1	G	1	-
Type	550										
Nominal size		15									
Body configuration (code)			D								
Connection (code)				1							
Valve body material (code)					37						
Seat seal (code)						5					
Control function (code)							1				
Actuator size (code)								1			
Flow direction (code)									G		
Spring set (code)										1	
Version (code)											-

### Version for food contact

For food contact, the product must be ordered with the following ordering options:

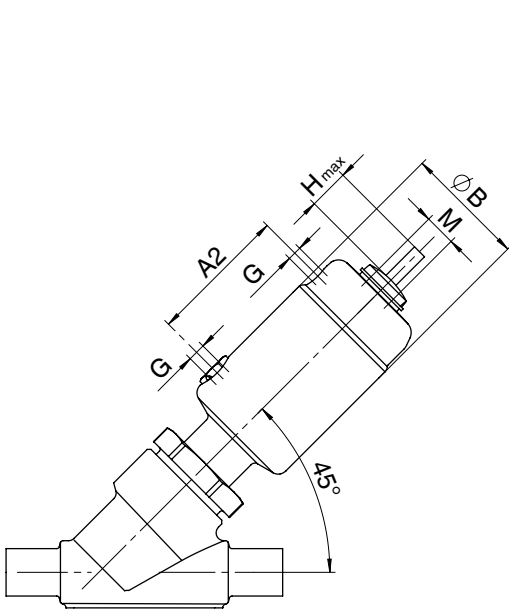
Seat seal code 5, 5G

Valve body material code 34, 37, 40, C2

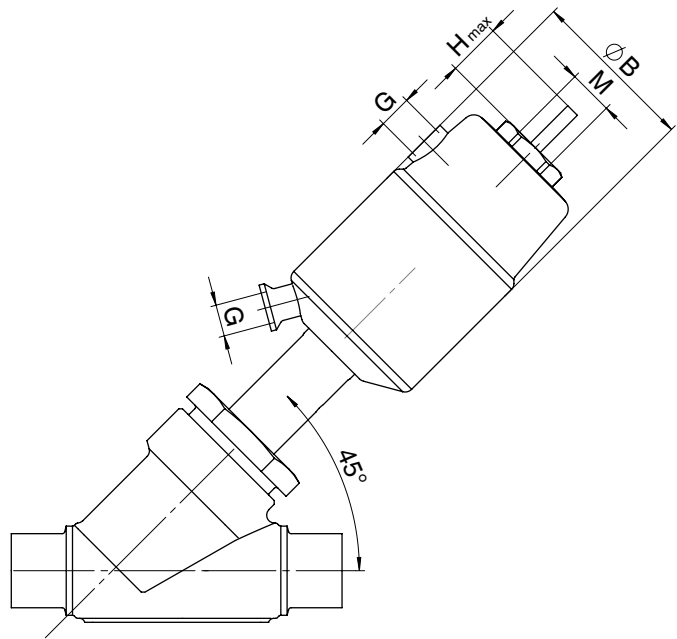
## Actuator dimensions [inch]

Actuator dimensions					
Actuator size	$\varnothing B$ [in]	M	H max* [in]	G	A2 [in]
0	1.26	M 12x1	0.24	M5	1.39
1	1.81	M 16x1	0.47	G 1/8	2.09
2	2.48	M 16x1	0.87	G 1/8	-
3	3.31	M 16x1	1.10	G 1/4	-
4	4.09	M 22x1.5	1.26	G 1/4	-
5	5.31	M 22x1.5	1.61	G 1/4	-

H max\*: dependent on nominal size



Actuator size 0, 1



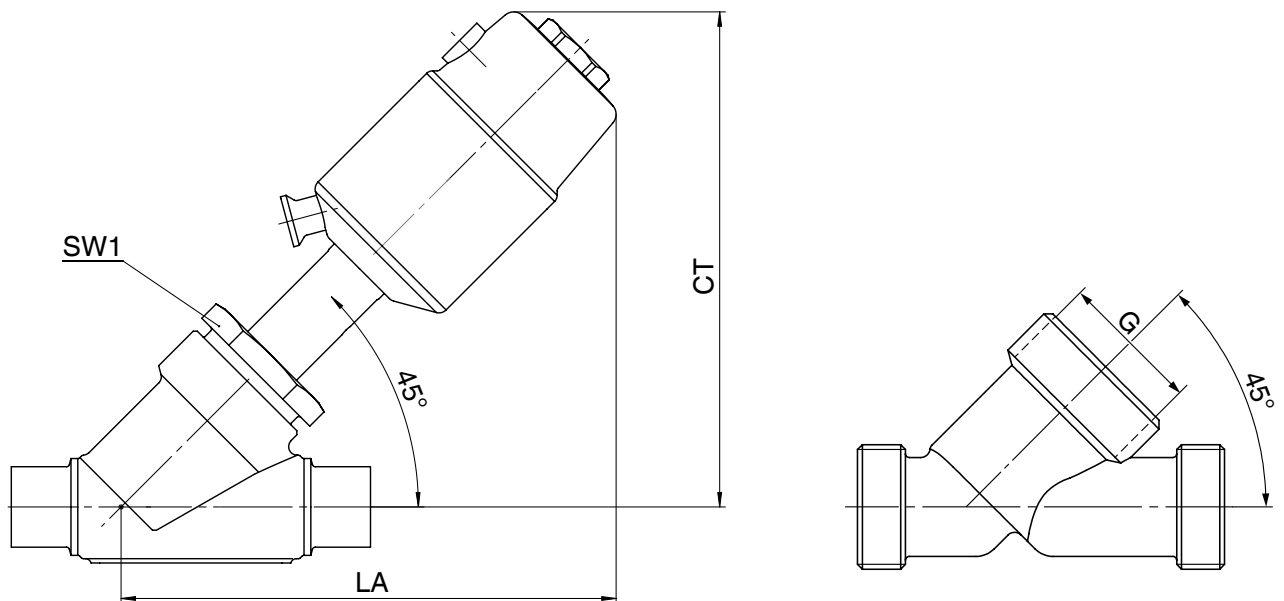
Actuator size 2 - 5



## Installation dimensions - Valve with 2/2-way body [inch]

### Installation dimensions / Actuator weight (without body)

DN	Nut size SW1 [mm]	G	Actuator size 0		Actuator size 1		Actuator size 2		Actuator size 3		Actuator size 4		Actuator size 5	
			CT/LA [in]	Weight [lbs]	CT/LA [in]	Weight [lbs]	CT/LA [in]	Weight [lbs]	CT/LA [in]	Weight [lbs]	CT/LA [in]	Weight [lbs]	CT/LA [in]	Weight [lbs]
6	24	-	3.58	0.5	-	-	-	-	-	-	-	-	-	-
8	24	-	3.58	0.5	-	-	-	-	-	-	-	-	-	-
10	24	-	3.58	0.5	-	-	-	-	-	-	-	-	-	-
15	24	-	3.58	0.5	-	-	-	-	-	-	-	-	-	-
8	36	-	-	-	5.28	1.4	6.73	2.0	-	-	-	-	-	-
10	36	-	-	-	5.28	1.4	6.73	2.0	-	-	-	-	-	-
15	36	M 35x1,5	-	-	5.39	1.5	6.85	2.1	-	-	-	-	-	-
20	41	M 40x1,5	-	-	5.63	1.6	7.09	2.2	7.8	3.7	-	-	-	-
25	46	M 45x1,5	-	-	-	-	7.24	2.4	7.95	4.0	9.25	7.0	-	-
32	55	M 52x1,5	-	-	-	-	7.56	2.9	8.27	4.4	9.57	7.5	10.59	14.3
40	60	M 60x2,0	-	-	-	-	7.36	3.5	8.46	4.6	9.76	7.7	10.79	14.5
50	55	M 72x2,0	-	-	-	-	-	-	8.78	5.1	10.08	8.2	11.10	15.0
65	75	M 90x2,0	-	-	-	-	-	-	-	-	-	-	11.61	16.3
80	75	M 105x2,0	-	-	-	-	-	-	-	-	-	-	12.28	17.9

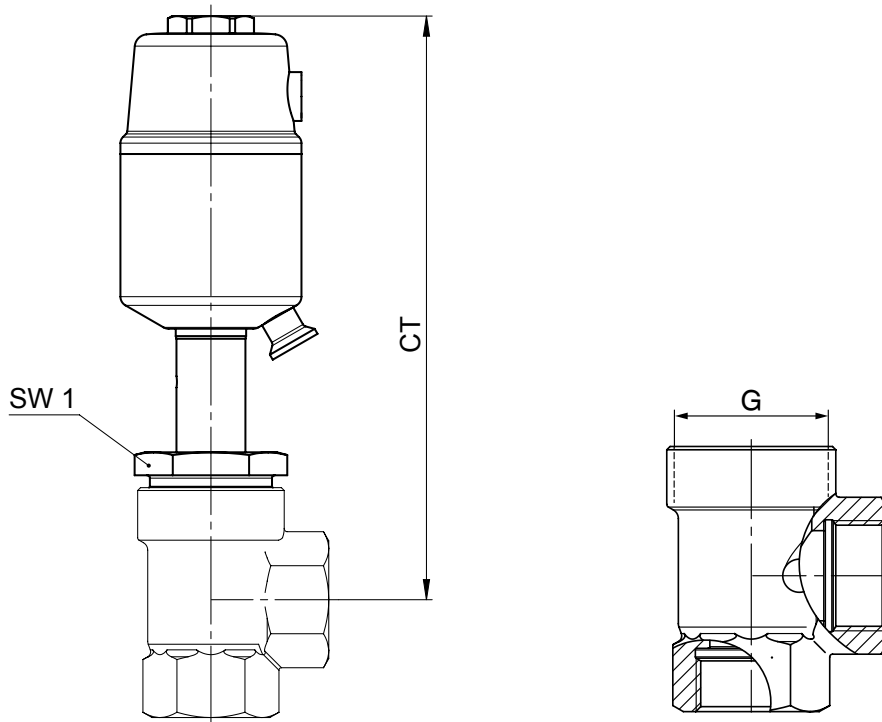


The dimensions stated refer to control function 1 (normally closed NC), for control function 2 (normally open NO) the dimensions are smaller.

**Installation dimensions - Valve with angle body [inch]**

**Installation dimensions / Actuator weight (without body)**

DN	Nut size SW1 [mm]	G	Actuator size 1		Actuator size 2		Actuator size 3		Actuator size 4		Actuator size 5	
			CT [in]	Weight [lbs]	CT [in]	Weight [lbs]	CT [in]	Weight [lbs]	CT [in]	Weight [lbs]	CT [in]	Weight [lbs]
15	36	M 35x1.5	5.87	1.5	7.68	2.1	-	-	-	-	-	-
20	41	M 40x1.5	5.98	1.6	7.80	2.2	8.43	3.7	-	-	-	-
25	46	M 45x1.5	-	-	7.95	2.4	8.58	4.0	10.08	7.0	-	-
32	55	M 52x1.5	-	-	8.07	2.9	8.70	4.4	10.20	7.5	11.26	14.3
40	60	M 60x2.0	-	-	-	-	8.90	4.6	10.39	7.7	11.46	14.5
50	55	M 72x2.0	-	-	-	-	9.17	5.1	10.67	8.2	11.73	15.0



The dimensions stated refer to control function 1 (normally closed NC), for control function 2 (normally open NO) the dimensions are smaller.

## Body dimensions [inch]

### Butt weld spigots, connection code 0, 16, 17, 37, 60 Valve body material: 1.4435 (code 34), 1.4408 (code 37)

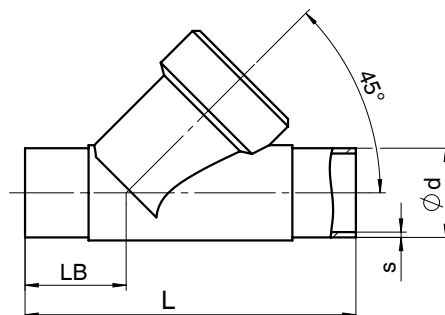
DN	Material code 34		Material code 37		Connection code									
					0		16		17		37		60	
	L	LB	L	LB	ø d	s	ø d	s	ø d	s	ø d	s	ø d	s
10	4.13	1.4	-	-	-	-	0.472	0.039	0.512	0.059	-	-	0.677	0.063
15	4.13	1.4	3.94	1.30	0.709	0.059	0.709	0.039	0.748	0.059	-	-	0.839	0.063
20	4.72	1.54	4.25	1.30	0.866	0.059	0.866	0.039	0.906	0.059	-	-	1.059	0.063
25	4.92	1.52	4.41	1.26	1.102	0.059	1.102	0.039	1.142	0.059	0.984	0.047	1.327	0.079
32	6.1	1.89	5.39	1.54	-	-	1.339	0.039	1.378	0.059	-	-	1.669	0.079
40	6.3	1.85	5.75	1.57	1.575	0.059	1.575	0.039	1.614	0.059	1.496	0.047	1.902	0.079
50	7.09	1.89	6.30	1.50	2.047	0.059	2.047	0.039	2.087	0.059	2.008	0.047	2.374	0.079
65	-	-	11.42	3.78	-	-	-	-	2.756	0.079	2.5	0.063	2.996	0.079
80	-	-	12.2	3.74	-	-	-	-	3.346	0.079	2.996	0.063	3.5	0.091

For materials see overview on page 16/17

### Butt weld spigots, connection code 59, 63, 65 Valve body material: 1.4435 (code 34), 1.4408 (code 37)

DN	Material code 34		Material code 37		Connection code					
					59		63		65	
	L	LB	L	LB	ø d	s	ø d	s	ø d	s
10	4.13	1.40	-	-	-	-	-	-	-	-
15	4.13	1.40	3.94	1.30	0.5	0.065	0.839	0.083	0.839	0.109
20	4.72	1.54	4.25	1.30	0.75	0.065	1.051	0.083	1.051	0.113
25	4.92	1.52	4.41	1.26	1	0.065	1.315	0.108	1.315	0.153
32	6.10	1.89	5.39	1.54	-	-	-	-	1.669	0.14
40	6.30	1.85	5.75	1.57	1.5	0.065	1.902	0.109	1.902	0.145
50	7.09	1.89	6.30	1.50	2	0.065	2.374	0.109	2.374	0.154
65	-	-	11.42	3.78	2.5	0.065	2.874	0.12	-	-
80	-	-	12.20	3.74	3	0.065	3.5	0.12	-	-

For materials see overview on page 16/17



## Body dimensions [inch]

### Butt weld spigots, connection code 0, 16, 17, 59, 60 Valve body material: Forged body (code 40)

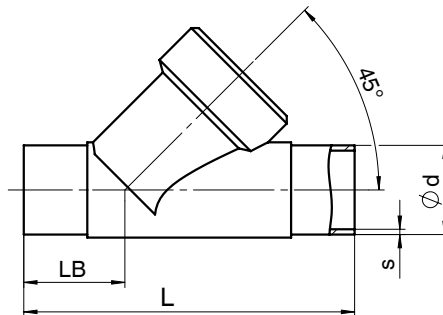
			Connection code									
			0		16		17		59		60	
DN	L	LB	ø d	s	ø d	s	ø d	s	ø d	s	ø d	s
6*	3.15	1.04	0.315	0.039	-	-	-	-	-	-	-	-
8*	3.15	1.04	0.394	0.039	-	-	-	-	-	-	0.531	0.063
10*	3.15	1.04	-	-	0.472	0.039	0.512	0.059	0.375	0.035	-	-
15*	3.15	1.04	-	-	-	-	-	-	0.500	0.065	-	-

\* only with actuator size 0

### Butt weld spigots, connection code 17, 59, 60 Valve body material: 1.4435 (code C2)

			Connection code					
			17		60		59	
DN	L	LB	ø d	s	ø d	s	ø d	s
8	4.13*	1.40*	-	-	0.531	0.063	-	-
10	4.13	1.40	0.512	0.059	0.677	0.063	-	-
15	4.13	1.40	0.748	0.059	0.839	0.063	0.500	0.065
20	4.72	1.54	0.906	0.059	1.059	0.063	0.750	0.065
25	4.92	1.56	1.142	0.059	1.327	0.079	1.000	0.065
32	6.10	1.89	1.378	0.059	1.669	0.079	-	-
40	6.30	1.85	1.614	0.059	1.902	0.079	1.500	0.065
50	7.09	1.89	2.087	0.059	2.374	0.079	2.000	0.065
65	11.42	3.78	2.756	0.079	2.996	0.079	2.500	0.065
80	12.20	3.74	3.346	0.079	3.500	0.091	3.000	0.065

\* Connection code 1A: L = 3.94, LB = 1.32



## Body dimensions [inch]

### Threaded sockets DIN, connection code 1 Valve body material: 1.4408 (code 37)

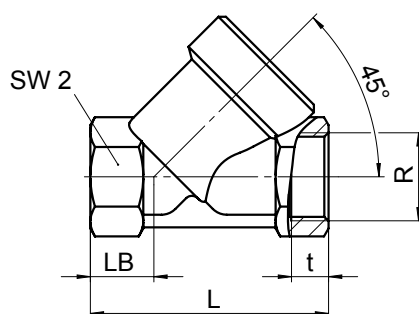
DN	L [in]	LB [in]	R	t [in]	SW2 [mm]	
8*	2.56	0.75	G 1/4	0.47	17	hexagonal
10*	2.56	0.75	G 3/8	0.47	24	hexagonal
15*	2.56	0.75	G 1/2	0.45	24	hexagonal
10	2.56	0.65	G 3/8	0.45	27	hexagonal
15	2.56	0.65	G 1/2	0.59	27	hexagonal
20	2.95	0.69	G 3/4	0.64	32	hexagonal
25	3.54	0.94	G 1	0.75	41	hexagonal
32	4.33	1.30	G 1 1/4	0.84	50	octagonal
40	4.72	1.18	G 1 1/2	0.84	55	octagonal
50	5.91	1.57	G 2	1.01	70	octagonal
65	7.48	1.81	G 2 1/2	1.19	85	octagonal
80	8.66	1.97	G 3	1.31	100	octagonal

\* only with actuator size 0

### Threaded sockets NPT, BS 21 Rc, connection code 3C, 3D Valve body material: 1.4408 (code 37)

					Connection code			
					3C		3D	
DN	L [in]	LB [in]	SW2 [mm]		R	t [in]	R	t [in]
8*	2.56	0.75	17	hexagonal	-	-	1/4" NPT	0.40
10*	2.56	1.06	24	hexagonal	-	-	3/8" NPT	0.41
15*	2.56	1.06	24	hexagonal	-	-	1/2" NPT	0.54
15	2.56	0.65	27	hexagonal	Rc 1/2	0.59	1/2" NPT	0.54
20	2.95	0.69	32	hexagonal	Rc 3/4	0.64	3/4" NPT	0.56
25	3.54	0.94	41	hexagonal	Rc 1	0.75	1" NPT	0.67
32	4.33	1.30	50	octagonal	Rc 1 1/4	0.84	1 1/4" NPT	0.69
40	4.72	1.18	55	octagonal	Rc 1 1/2	0.84	1 1/2" NPT	0.68
50	5.91	1.57	70	octagonal	Rc 2	1.01	2" NPT	0.70
65	7.48	1.81	85	octagonal	Rc 2 1/2	1.19	2 1/2" NPT	0.93
80	8.66	1.97	100	octagonal	Rc 3	1.31	3" NPT	1.02

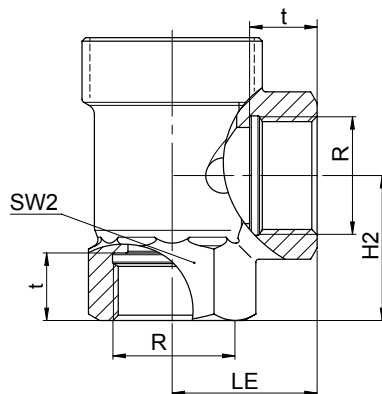
\* only with actuator size 0



## Body dimensions [inch]

### Threaded sockets DIN, connection code 1, 3D / Angle body Valve body material: 1.4408 (code 37)

DN	SW2 [mm]	LE [in]	H2 [in]	Connection code 1		Connection code 3D	
				R	t [in]	R	t [in]
15	27	1.18	1.18	G 1/2	0.59	1/2" NPT	0.54
20	32	1.38	1.48	G 3/4	0.64	3/4" NPT	0.56
25	41	1.61	1.61	G 1	0.75	1" NPT	0.67
32	50	1.97	1.89	G 1 1/4	0.84	1 1/4" NPT	0.69
40	55	1.97	2.17	G 1 1/2	0.84	1 1/2" NPT	0.68
50	70	2.36	2.44	G 2	1.01	2" NPT	0.70

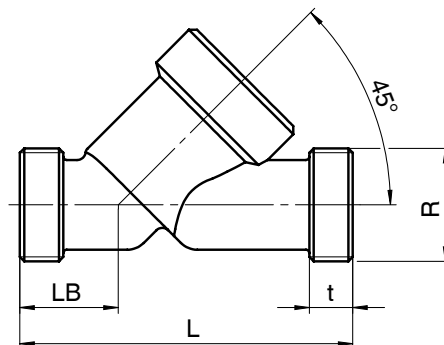


### Threaded spigots, connection code 9 Valve body material: 1.4408 (code 37), Forged body (code 40)

DN	L	LB	t	R
6*	2.56	0.75	0.47	G 1/4
8*	2.56	0.75	0.47	G 3/8
10*	2.56	0.75	0.47	G 1/2
15*	2.56	0.75	0.47	G 3/4
15	3.54	0.98	0.47	G 3/4
20	4.33	1.18	0.59	G 1
25	4.65	1.18	0.59	G 1 1/4
32	5.12	1.50	0.51	G 1 1/2
40	5.51	1.38	0.51	G 1 3/4
50	6.89	1.97	0.59	G 2 3/8
65	8.50	2.05	0.59	G 3
80	10.00	2.52	0.71	G 3 1/2

\*only with actuator size 0

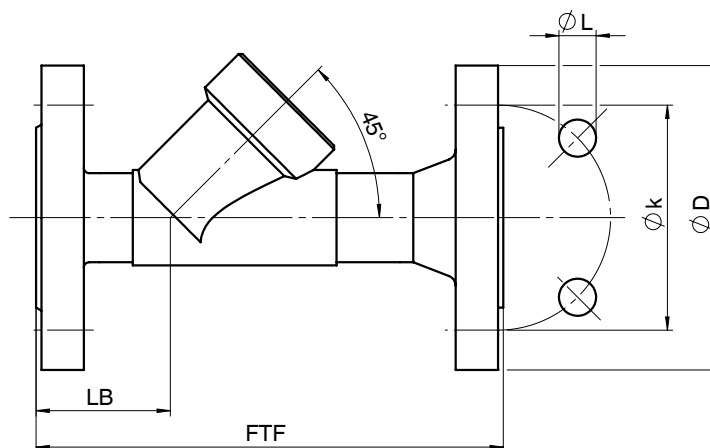
For materials see overview on page 16/17



## Body dimensions [inch]

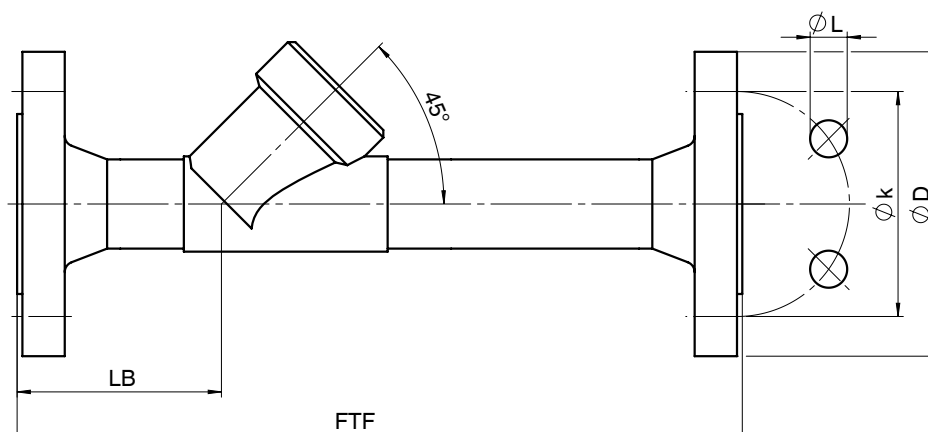
### Flanges, connection code 10 Valve body material: 1.4408 (code 37)

DN	FTF	LB	$\varnothing D$	$\varnothing L$	$\varnothing k$	Number of bolts
15	5.12	1.30	3.74	0.55	2.56	4
20	5.91	1.77	4.13	0.55	2.95	4
25	6.30	1.73	4.53	0.55	3.35	4
32	7.09	2.01	5.51	0.71	3.94	4
40	7.87	2.05	5.91	0.71	4.33	4
50	9.06	1.97	6.50	0.71	4.92	4



### Flanges, connection code 13, 47 Valve body material: 1.4435 (code 34)

DN	FTF	LB	Connection code 13				Connection code 47			
			$\varnothing D$	$\varnothing L$	$\varnothing k$	Number of bolts	$\varnothing D$	$\varnothing L$	$\varnothing k$	Number of bolts
15	8.27	2.83	3.74	0.55	2.56	4	3.5	0.62	2.38	4
20	11.02	3.07	4.13	0.55	2.95	4	3.88	0.62	2.75	4
25	11.02	3.03	4.53	0.55	3.35	4	4.25	0.62	3.12	4
32	12.20	3.50	5.51	0.71	3.94	4	4.62	0.62	3.50	4
40	12.60	3.58	5.91	0.71	4.33	4	5.00	0.62	3.88	4
50	12.99	3.74	6.50	0.71	4.92	4	6.00	0.75	4.75	4

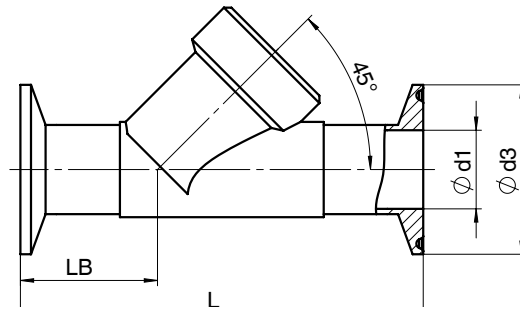


## Body dimensions [inch]

**Clamp connections, connection code 80, 82, 86, 88**  
**Valve body material: 1.4435 (code 34), 1.4435 (code C2)**

DN	NPS	Connection code								Connection code			
		LB	L	82		86		88		80			
				ø d1	ø d3	ø d1	ø d3	ø d1	ø d3	LB	L	ø d1	ø d3
8	1/4"	1.87	5.12	0.406	0.98	-	-	-	-	-	-	-	-
10	3/8"	1.87	5.12	0.551	0.98	-	-	-	-	-	-	-	-
15	1/2"	1.87	5.12	0.713	1.99	0.630	1.34	0.370	0.98	1.32	4.00	0.370	0.98
20	3/4"	2.13	5.91	0.933	1.99	0.787	1.34	0.620	0.98	1.18	4.00	0.620	0.98
25	1"	2.2	6.30	1.169	1.99	1.024	1.99	0.870	1.99	1.30	4.50	0.870	1.99
32	1 1/4"	2.44	7.09	1.512	2.52	1.260	1.99	-	-	-	-	-	-
40	1 1/2"	2.64	7.87	1.744	2.52	1.496	1.99	1.370	1.99	1.46	5.50	1.370	1.99
50	2"	2.87	9.06	2.217	3.05	1.969	2.52	1.870	2.52	1.44	6.25	1.870	2.52
65	2 1/2"	4.72	11.42	2.839	3.58	2.598	3.58	2.370	3.05	-	-	-	-
80	3"	4.69	12.20	3.319	4.17	3.189	4.17	2.870	3.58	-	-	-	-

For materials see overview on page 17



### Actuators for connection code 10:

DN 15	Actuator 1 + 2
DN 20	Actuator 1 + 2 + 3
DN 25	Actuator 2 + 3 + 4
DN 32	Actuator 2
DN 40	Actuator 4
DN 50	Actuator 3 + 4

### Overview of metal bodies for GEMÜ 550 with actuator size 0

Connection code	Threaded connections				Spigots				
	1	9		3D	0	16	17	59	60
Material code	37	37	40	37	40	40	40	40	40
DN 6	-	-	X	-	X	-	-	-	-
DN 8	X	X	-	X	X	-	-	-	X
DN 10	X	X	-	X	-	X	X	X	-
DN 15	X	X	-	X	-	-	-	X	-



Overview of metal bodies for GEMÜ 550 with actuator size 1, 2, 3, 4, 5																
Connection code	Spigots															
	0	16	17			37		59			60			63		65
Material code	34	34	34	37	C2	34	37	34	37	C2	34	37	C2	34	37	34
DN 8	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
DN 10	-	X	X	-	X	-	-	-	-	-	X	-	X	-	-	-
DN 15	X	X	X	X	X	-	-	X	-	X	X	X	X	X	X	X
DN 20	X	X	X	X	X	-	-	X	-	X	X	X	X	X	X	X
DN 25	X	X	X	X	X	X	-	X	-	X	X	X	X	X	X	X
DN 32	-	X	X	X	X	-	-	-	-	-	X	X	X	-	-	X
DN 40	X	X	X	X	X	X	-	X	-	X	X	X	X	X	X	X
DN 50	X	X	X	X	X	X	-	X	-	X	X	X	X	X	X	X
DN 65	-	-	-	X	X	-	X	-	X	X	-	X	X	-	X	-
DN 80	-	-	-	X	X	-	X	-	X	X	-	X	X	-	X	-

Overview of metal bodies for GEMÜ 550 with actuator size 1, 2, 3, 4, 5																
Connection code	Threaded connections						Clamps						Flanges			
	1		3C	9	3D		80	82		86		88		10	13	47
Material code	37	37	37	37	37	37	34	34	C2	34	C2	34	C2	37	34	34
Body configuration	2/2-way body	Angle body			2/2-way body	Angle body										
DN 8	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-
DN 10	X	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-
DN 15	X	X	X	X	X	X	X	X	X	X	X	X	X	X*	X	X
DN 20	X	X	X	X	X	X	X	X	X	X	X	X	X	X*	X	X
DN 25	X	X	X	X	X	X	X	X	X	X	X	X	X	X*	X	X
DN 32	X	X	X	X	X	X	-	X	X	X	X	-	-	X*	X	X
DN 40	X	X	X	X	X	X	X	X	X	X	X	X	X	X*	X	X
DN 50	X	X	X	X	X	X	X	X	X	X	X	X	X	X*	X	X
DN 65	X	-	X	X	X	-	-	-	X	-	X	-	X	-	-	-
DN 80	X	-	X	X	X	-	-	-	X	-	X	-	X	-	-	-

\*For possible combinations with actuator sizes see table page 16

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