

## Angle Seat Globe Control Valve, Metal

### Construction

The GEMÜ 2/2-way angle seat globe control valve is designed for demanding flow control applications. It can be paired with the GEMÜ 1434 µPos, GEMÜ 1435 ePos positioners or the GEMÜ 1436 cPos positioner and process controller dependent on the control requirements (for features see page 12). The positioners are specially designed for GEMÜ valves and achieve optimum results when used as a system. The valve spindle is sealed by a self-adjusting gland packing providing low maintenance and reliable sealing even after a long service life with high cycle duties. A wiper ring protects the gland packing against contamination and damage.

### Features

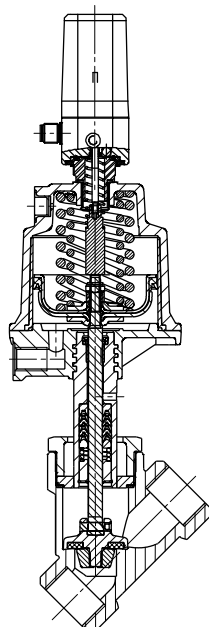
- Linear or modified equal-percentage control characteristics
- Kv values from approx. 0.16 - 60.0 m<sup>3</sup>/h, depending on nominal size, valve seat and regulating cone design
- PID control system can be implemented with GEMÜ 1436 cPos
- Suitable for inert, corrosive\*, liquid and gaseous media and steam
- Max. operating pressure 25 bar
- Max. operating temperature 180°C

### Advantages

- Simple and fast commissioning
- Good flow capability and compact design
- Valve and positioner are optimally adapted to each other.  
(For positioner details please refer to the relevant data sheets)
- Optionally suitable for contact with food according to Regulation (EC) No. 1935/2004 (K-No. 2013)
- Standard gland packing suitable for vacuum up to 20 mbar (abs.)

\*see information on working medium on page 2

### Sectional drawing



GEMÜ 514  
+ 1434 µPos



GEMÜ 514  
+ 1435 ePos



GEMÜ 514  
+ 1436 cPos

## Technical data

### 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.

Max. perm. pressure of working medium see table

Media temperature -10° to 180° C

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

### Control medium

Inert gases, max. 60°C

Filling volume	Actuator size 0:	0.050 dm <sup>3</sup>
	Actuator size 1:	0.125 dm <sup>3</sup>
	Actuator size 2:	0.625 dm <sup>3</sup>

### Ambient conditions

Max. ambient temperature 60° C

### Maximum permissible seat leakage class

Seat seal	Standard	Test procedure	Leakage rate	Test medium
PTFE	DIN EN 60534-4	1	VI	air
Metal	DIN EN 60534-4	1	IV	air

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

Connection code	Material code	Max. allowable operating pressures in bar at temperature °C*					
		RT	100	150	200	250	300
1, 3D, 9 (up DN 50)	9	16.0	16.0	16.0	13.5	-	-
1, 9, 17, 60, 63, 3C, 3D	37	25.0	23.8	21.4	18.9	17.5	16.1
0, 16, 17, 18, 37, 59, 60, 65	34	25.0	24.5	22.4	20.3	18.2	16.1
13 (DN 15 - DN 50)	34	25.0	23.6	21.5	19.8	18.6	17.2
47 (DN 15 - DN 50)	34	15.9	13.3	12.0	11.1	10.2	9.7
1A, 1B, 59	C2	25.0	21.2	19.3	17.9	16.8	15.9

\* The valves can be used down to -10°C RT = Room Temperature All pressures are gauge pressures.

### Correlation\* Kv value, operating pressure, regulating cone number Valve body material: RG 5 (code 9), 1.4435 (code 34, C2), 1.4408 (code 37)

Nominal size DN	Kv value [m <sup>3</sup> /h]	Operating pressure [bar]	Actuator size	Regulating cone number	
				linear	equal-percentage (mod.)
15	5.0	12.0	0	RS601	RS611
		25.0	1	RS600	RS610
20	10.0	6.0	0	RS602	RS612
		20.0	1	RS603	RS613
25	15.0	10.0	1	RS604	RS614
32	24.0	7.0	1	RS660	RS670
		22.0	2	RS605	RS615
40	38.0	4.5	1	RS661	RS671
		12.0	2	RS606	RS616
50	50.0	3.0	1	RS662	RS672
	60.0	10.0	2	RS607	RS617

\* not for connection code 37, 59; standard regulating cone - see following table

## Technical data

### Correlation\* Kv value, operating pressure, regulating cone number Valve body material: 1.4435 (code 34, C2)

Nominal size DN	Kv value [m <sup>3</sup> /h]	Operating pressure [bar]	Actuator size	Regulating cone number	
				linear	equal-percentage (mod.)
15	2.7	12.0	0	RS651	RS641
		25.0	1	RS650	RS640
20	6.3	6.0	0	RS652	RS642
		20.0	1	RS653	RS643
25	13.3	10.0	1	RS654	RS644
40	35.6	4.5	1	RS658	RS648
		12.0	2	RS656	RS646
50	50.0	3.0	1	RS659	RS649
	58.0	10.0	2	RS657	RS647

\* only for connection code 37, 59

### Correlation Kv value, operating pressure, regulating cone number Valve body material: 1.4435 (code 34, C2)<sup>1)</sup>, 1.4408 (code 37)

Nominal size DN	Kv value [m <sup>3</sup> /h]	Operating pressure [bar]	Actuator size	Regulating cone no.	
				linear	equal-percentage (mod.)
15	0.1 <sup>2)</sup>	25	1	RA203	RA405
	0.16 <sup>2)</sup>	25	1	RB207	RA406
	0.25 <sup>2)</sup>	25	1	RB208	RB405
	0.40 <sup>2)</sup>	25	1	RB209	RB406
	0.63 <sup>2)</sup>	25	1	RC205	RC405
	1.00 <sup>2)</sup>	25	1	RC206	RC406
	1.60	25	1	RD205	RD405
	2.50 <sup>3)</sup>	25	1	RE207	RE407
20	1.60	25	1	RD206	RD406
	2.50	25	1	RE208	RE408
	4.00	25	1	RF207	RF407
	6.30 <sup>3)</sup>	25	1	RG209	RG409
25	2.50	25	1	RE209	RE409
	4.00	25	1	RF208	RF408
	6.30	25	1	RG210	RG410
	10.00 <sup>3)</sup>	15	1	RH209	RH409
32	4.00	25	1	RF209	RF409
	6.30	25	1	RG211	RG411
	10.00	16	1	RH210	RH410
	16.00	11	1	RJ207	RJ407
40	6.30	25	1	RG212	RG412
	10.00	18	1	RH211	RH411
	16.00	11	1	RJ208	RJ408
	25.00	18	2	RK205	RK405
50	10.00	18	1	RH212	RH412
	16.00	12	1	RJ209	RJ409
	25.00	24	2	RK206	RK406
	40.00	15	2	RM203	RM403

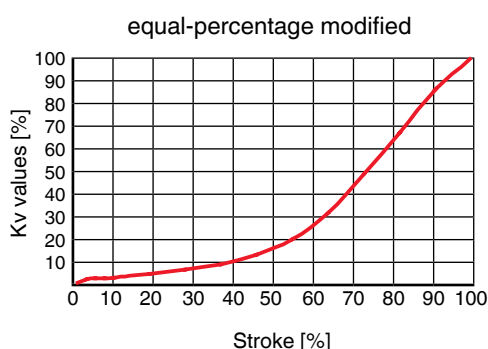
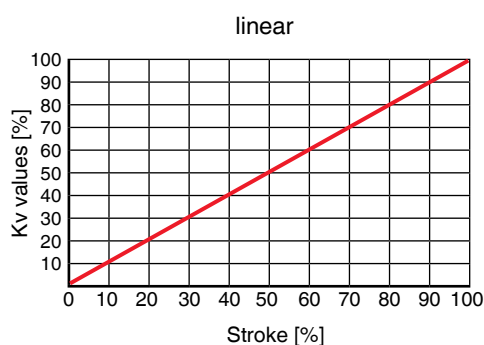
1) Angle seat globe valve bodies with valve body material code C2 and reduced seat have a surface roughness of Ra ≤ 1.2 µm due to the reduction in the seat area.

2) metal seated (with no soft seat)

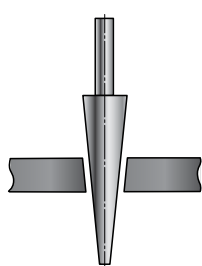
3) not for connection code 37, 59

## Technical data

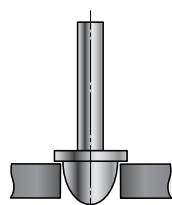
### Example Kv value diagram



The adjacent diagram shows the approximative curve of the Kv value characteristic. The characteristic may deviate dependent on valve body, nominal size, regulating cone and valve stroke.



Regulating needle



Regulating cone

#### Note:

Regulating needle: RAxxx - RCxxx (reduced valve seat)

Regulating cone: DN 15 - DN 50

## Order data

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

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 DIN 11850 series 3	18
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, Flanges ANSI CLASS 125/150 RF	13 47
Bodies with clamp connections available on request	

Valve body material	Code
(Rg 5) CC499K, Cast bronze	9
1.4435 (ASTM A 351 CF3M $\cong$ 316L), Investment casting	34
1.4408, Cast stainless steel	37
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
Steel (standard up to Kv value 1.00 m <sup>3</sup> /h)	10*

\* R-No. on request

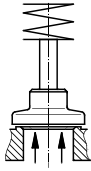
Control function	Code
Normally closed (NC)	1
Double acting (DA)	3*
Double acting (normally open)	8*

\* R-No. on request

## Order data

Actuator size	Flow	Code
Actuator 0 piston ø 50 mm	under the seat	0
Actuator 1 piston ø 70 mm	under the seat	1
Actuator 2 piston ø 120 mm	under the seat	2

Regulating cone	R-No.
For the regulating cone no. (R-No.) - linear or equal-percentage (mod.)- please refer to the table	



Flow under the seat

Version	Code
Gland packing PTFE / PTFE suitable for contact with food according to EU Regulation 1935/2004	2013
Media temperature -10 to 210 °C (only with seat seal Code 5G and 10)	2023
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

Order example	514	25	D	9	37	5	1	1	RS614	1903
Type	514									
Nominal size		25								
Body configuration (code)			D							
Connection (code)				9						
Valve body material (code)					37					
Seat seal (code)						5				
Control function (code)							1			
Actuator size (code)								1		
Regulating cone (R-No.)									RS614	
Version (Code)										1903

For the technical data and order data of the positioners please refer to data sheets GEMÜ 1434, 1435 and 1436. Please also note the table on the last page.

### Version for food contact

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

Version code 2013

Seat seal code 5, 5G, 10

Valve body material code 34, 37, C2

**Actuator dimensions / Installation dimensions - Valve with 2/2-way body [mm]**

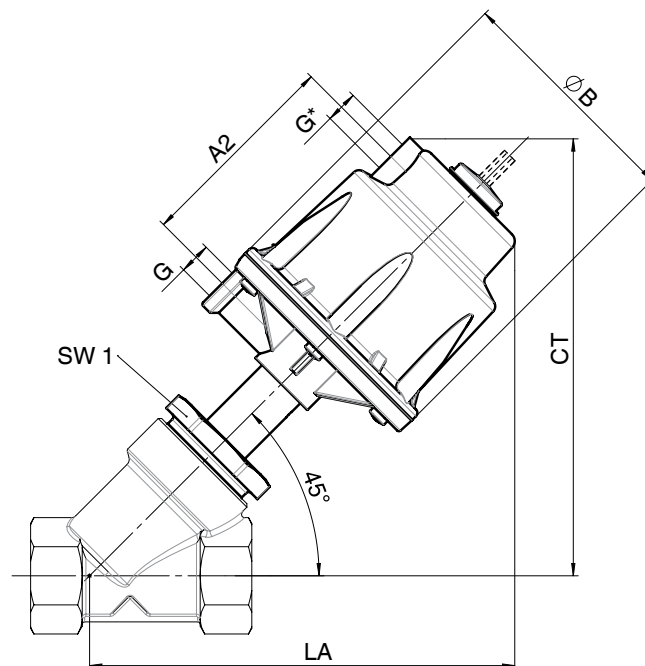
**GEMÜ 514 without positioner [mm] / Weight [kg]**

**Actuator dimensions [mm]**

Actuator size	ø B	M	A2	G
0	71	M 16x1	-	G 1/4
1	96	M 16x1	85.5	G 1/4
2	164	M 22x1.5	123.0	G 1/4

**Installation dimensions / Weight [kg]**

DN	Wrench size SW1	Actuator size 0		Actuator size 1		Actuator size 2	
		CT/LA	Weight	CT/LA	Weight	CT/LA	Weight
15	36	151	0.9	162	1.4	-	-
20	41	161	1.1	172	1.6	239	-
25	46	161	1.3	172	1.8	239	-
32	55	-	-	180	2.4	247	4.6
40	60	-	-	186	2.7	253	5.5
50	75	-	-	194	3.4	261	6.4



\* Connection only for actuator sizes 1, 2 and 5; c.f. 2 and 3

**Actuator dimensions / Installation dimensions - Valve with angle body [mm]**

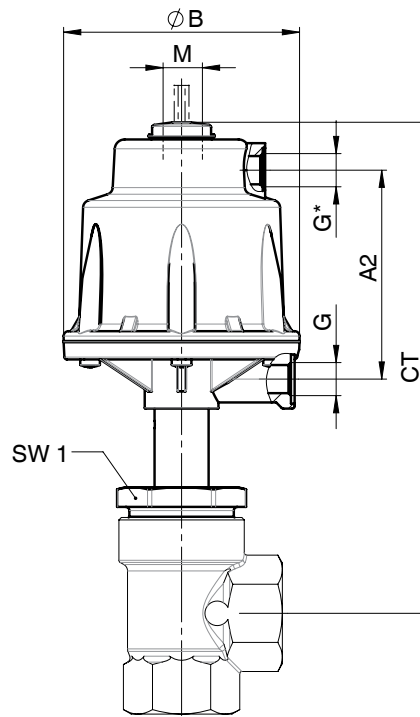
**GEMÜ 514 without positioner [mm] / Weight [kg]**

**Actuator dimensions [mm]**

Actuator size	ø B	M	A2	G
0	71	M 16x1	-	G 1/4
1	96	M 16x1	85.5	G 1/4
2	164	M 22x1.5	123.0	G 1/4

**Installation dimensions / Weight [kg]**

DN	Wrench size SW1	Actuator size 0		Actuator size 1		Actuator size 2	
		CT	Weight	CT	Weight	CT	Weight
15	36	173	0.9	183	1.4	-	-
20	41	176	1.1	186	1.6	261	-
25	46	180	1.3	190	1.8	265	-
32	55	-	-	193	2.4	268	4.6
40	60	-	-	198	2.7	273	5.5
50	75	-	-	205	3.4	280	6.4

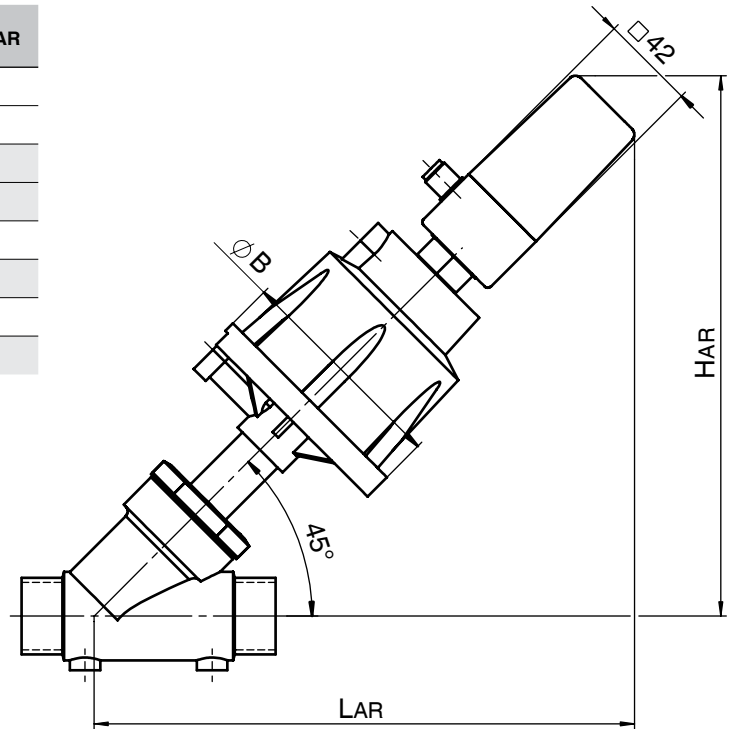


\* Connection only for actuator sizes 1, 2 and 5; c.f. 2 and 3

## 2/2-way body

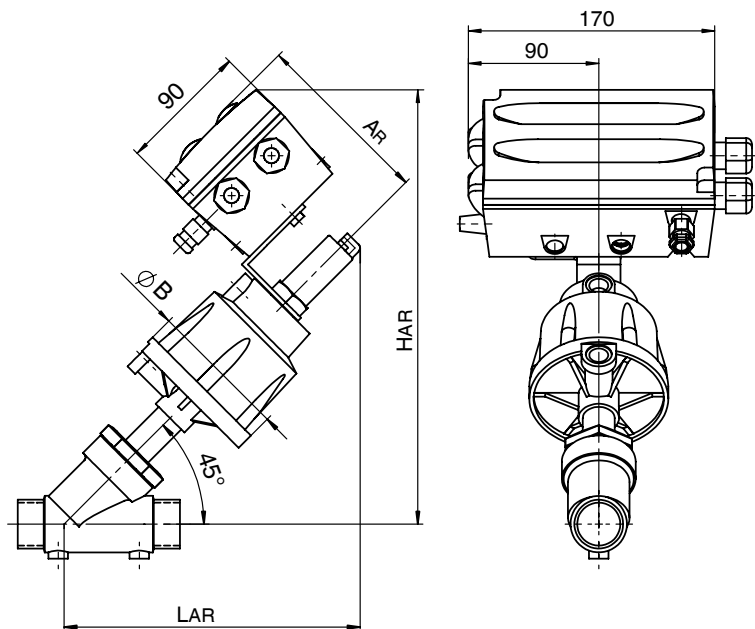
### GEMÜ 514 with 1434 $\mu$ Pos

DN	Actuator size	Control function	$\varnothing B$	LAR / HAR
15	0	1	71	226
	1	1	96	233
20	0	1	71	236
	1	1	96	243
25	1	1	96	243
32	1	1	96	251
40	1	1	96	257
50	1	1	96	264



### GEMÜ 514 with 1435 ePos

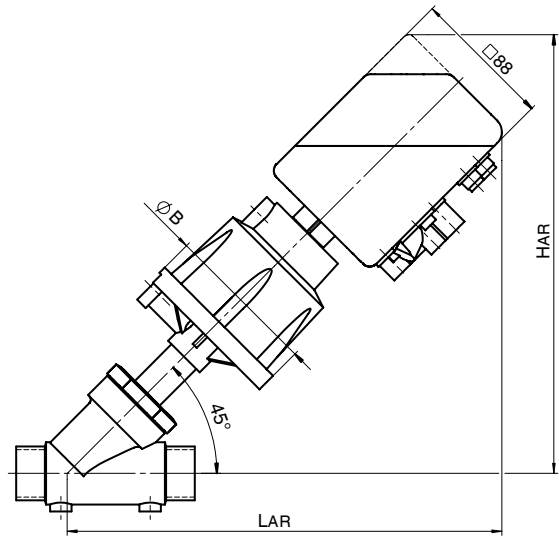
DN	Actuator size	Control function	$\varnothing B$	LAR	HAR	AR
15	0	1	71	206	300	118
		1	96	196	291	118
	1	3 and 8	96	213	307	118
20	0	1	71	216	310	118
		1	96	206	300	118
	1	3 and 8	96	223	317	118
		1	164	278	392	168
		3 and 8	164	292	384	138
25	1	1	96	206	300	118
		3 and 8	96	223	317	118
32	1	1	96	214	308	118
		3 and 8	96	231	325	118
	2	1	164	286	400	168
		3 and 8	164	299	392	138
40	1	1	96	220	314	118
		3 and 8	96	236	331	118
	2	1	164	292	406	168
3 and 8		164	305	398	138	
50	1	1	96	227	322	118
		3 and 8	96	244	338	118
	2	1	164	300	413	168
3 and 8		164	313	406	138	



## 2/2-way body

### GEMÜ 514 with 1436 cPos

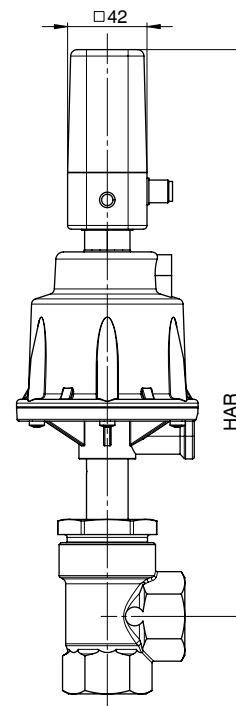
DN	Actuator size	Control function	øB	LAR / HAR
15	0	1	71	280
	1	1	96	270
		3 and 8	96	287
20	0	1	71	290
	1	1	96	280
		3 and 8	96	297
25	1	1	96	280
		3 and 8	96	297
32	1	1	96	288
		3 and 8	96	305
	2	1	164	360
3 and 8		164	373	
40	1	1	96	294
		3 and 8	96	310
	2	1	164	366
		3 and 8	164	379
50	1	1	96	301
		3 and 8	96	318
	2	1	164	374
		3 and 8	164	387



## Angle body

### GEMÜ 514 with 1434 µPos

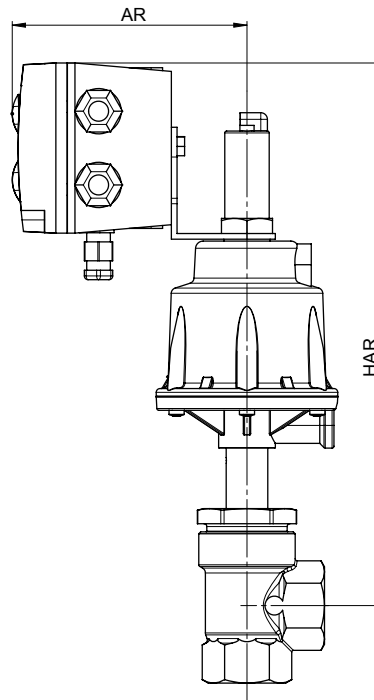
DN	Actuator size	Control function	øB	HAR
15	0	1	71	279
	1	1	96	289
20	0	1	71	282
	1	1	96	292
25	1	1	96	296
32	1	1	96	299
40	1	1	96	304
50	1	1	96	311



## Angle body

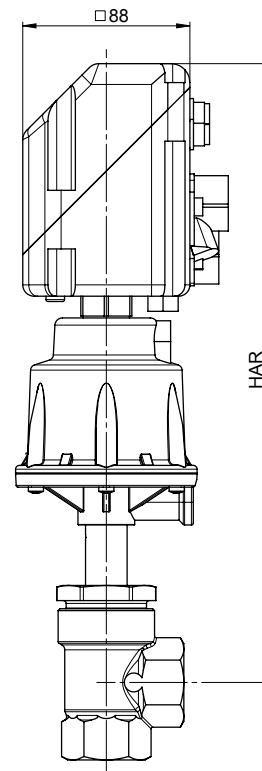
### GEMÜ 514 with 1435 ePos

DN	Actuator size	Control function	HAR
15	0	1	287
	1	1	273
		3 and 8	297
20	0	1	290
	1	1	276
		3 and 8	300
2	1	356	
	3 and 8	375	
25	1	1	280
		3 and 8	304
32	1	1	283
		3 and 8	307
	2	1	363
3 and 8		382	
40	1	1	288
		3 and 8	312
	2	1	368
3 and 8		387	
50	1	1	295
		3 and 8	319
	2	1	375
3 and 8		394	



### GEMÜ 514 with 1436 cPos

DN	Actuator size	Control function	HAR
15	0	1	322
	1	1	308
		3 and 8	332
20	0	1	325
	1	1	311
		3 and 8	335
25	1	1	315
		3 and 8	339
32	1	1	318
		3 and 8	342
	2	1	398
3 and 8		417	
40	1	1	323
		3 and 8	347
	2	1	403
3 and 8		422	
50	1	1	330
		3 and 8	354
	2	1	410
3 and 8		429	



## Body dimensions [mm]

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

		Connection code															
		Material code 34		Material code 37		0		16		17		18		37		60	
DN	L	LB	L	LB	ø d	s	ø d	s	ø d	s	ø d	s	ø d	s	ø d	s	
15	105	35.5	100	33	18	1.5	18	1.0	19	1.5	20	2.0	-	-	21.3	1.6	
20	120	39.0	108	33	22	1.5	22	1.0	23	1.5	24	2.0	-	-	26.9	1.6	
25	125	38.5	112	32	28	1.5	28	1.0	29	1.5	30	2.0	25.0	1.2	33.7	2.0	
32	155	48.0	137	39	-	-	34	1.0	35	1.5	36	2.0	-	-	42.4	2.0	
40	160	47.0	146	40	40	1.5	40	1.0	41	1.5	42	2.0	38.0	1.2	48.3	2.0	
50	180	48.0	160	38	52	1.5	52	1.0	53	1.5	54	2.0	51.0	1.2	60.3	2.0	

For materials see overview on page 14

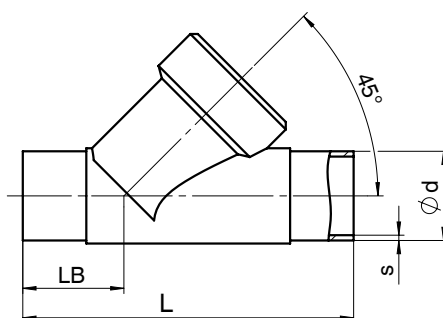
### Butt weld spigots, connection code 59, 63, 65 Valve body material: 1.4435 (code 34), 1.4408 (code 37)

		Connection code									
		Material code 34		Material code 37		59		63		65	
DN	L	LB	L	LB	ø d	s	ø d	s	ø d	s	
15	105	35.5	100	33	12.70	1.65	21.3	2.11	21.3	2.77	
20	120	39.0	108	33	19.05	1.65	26.7	2.11	26.7	2.87	
25	125	38.5	112	32	25.40	1.65	33.4	2.75	33.4	3.88	
32	155	48.0	137	39	-	-	-	-	42.4	3.56	
40	160	47.0	146	40	38.10	1.65	48.3	2.77	48.3	3.68	
50	180	48.0	160	38	50.80	1.65	60.3	2.77	60.3	3.91	

Werkstoffe siehe Übersichtstabelle auf Seite 14

### 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
15	105	35.5	19	1.5	21.3	1.6	12.70	1.65
20	120	39.0	23	1.5	26.9	1.6	19.05	1.65
25	125	39.5	29	1.5	33.7	2.0	25.40	1.65
32	155	48.0	35	1.5	42.4	2.0	-	-
40	160	47.0	41	1.5	48.3	2.0	38.10	1.65
50	180	48.0	53	1.5	60.3	2.0	50.80	1.65



## Body dimensions [mm]

### Threaded sockets DIN, connection code 1 Valve body material: Cast bronze (code 9), 1.4408 (code 37)

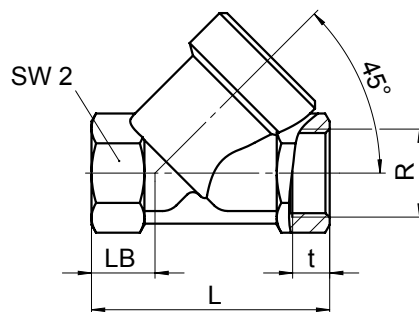
DN	L	LB	R	t	SW2	
15	65	16.5	G 1/2	15.0	27	hexagonal
20	75	17.5	G 3/4	16.3	32	hexagonal
25	90	24.0	G 1	19.1	41	hexagonal
32	110	33.0	G 1 1/4	21.4	50	octagonal
40	120	30.0	G 1 1/2	21.4	55	octagonal
50	150	40.0	G 2	25.7	70	octagonal

For materials see overview on page 14

### Threaded sockets NPT, BS 21 Rc, connection code 3C, 3D Valve body material: Cast bronze (code 9), 1.4408 (code 37)

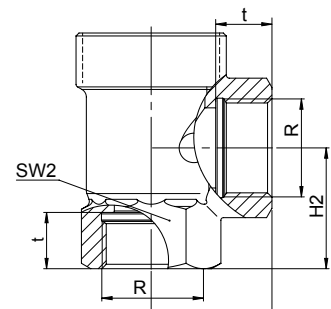
DN	L	LB	SW2	Connection code			
				3C		3D	
				R	t	R	t
15	65	16.5	27 hexagonal	Rc 1/2	15.0	1/2" NPT	13.6
20	75	17.5	32 hexagonal	Rc 3/4	16.3	3/4" NPT	14.1
25	90	24.0	41 hexagonal	Rc 1	19.1	1" NPT	17.0
32	110	33.0	50 octagonal	Rc 1 1/4	21.4	1 1/4" NPT	17.5
40	120	30.0	55 octagonal	Rc 1 1/2	21.4	1 1/2" NPT	17.3
50	150	40.0	70 octagonal	Rc 2	25.7	2" NPT	17.8

For materials see overview on page 14



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

DN	SW2	LE	H2	Connection code 1		Connection code 3D	
				R	t	R	t
15	27	30	30.0	G 1/2	15.0	1/2" NPT	13.6
20	32	35	37.5	G 3/4	16.3	3/4" NPT	14.1
25	41	41	41.0	G 1	19.1	1" NPT	17.0
32	50	50	48.0	G 1 1/4	21.4	1 1/4" NPT	17.5
40	55	50	55.0	G 1 1/2	21.4	1 1/2" NPT	17.3
50	70	60	62.0	G 2	25.7	2" NPT	17.8

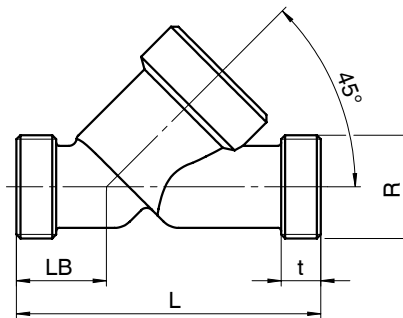


## Body dimensions [mm]

### Threaded spigots, connection code 9 Valve body material: Cast bronze (code 9), 1.4408 (code 37)

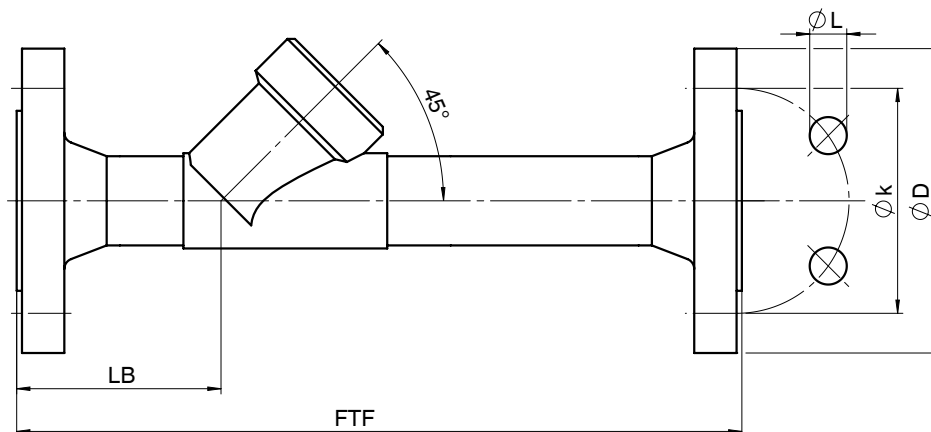
DN	L	LB	t	R
15	90	25	12	G 3/4
20	110	30	15	G 1
25	118	30	15	G 1 1/4
32	130	38	13	G 1 1/2
40	140	35	13	G 1 3/4
50	175	50	15	G 2 3/8

For materials see overview on page 14



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

DN	FTF	LB	Connection code 13				Connection code 47			
			ø D	ø L	ø k	Number of bolts	ø D	ø L	ø k	Number of bolts
15	210	72	95	14	65	4	89.0	15.7	60.5	4
20	280	78	105	14	75	4	98.6	15.7	69.8	4
25	280	77	115	14	85	4	108.0	15.7	79.2	4
32	310	89	140	18	100	4	117.3	15.7	88.9	4
40	320	91	150	18	110	4	127.0	15.7	98.6	4
50	330	95	165	18	125	4	152.4	19.1	120.7	4



### Overview of metal bodies for GEMÜ 514

Overview of metal bodies for GEMÜ 514														
Spigots														
Connection code	0	16	17			18	37	59		60			63	65
Material code	34	34	34	37	C2	34	34	34	C2	34	37	C2	37	34
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	-	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

### Overview of metal bodies for GEMÜ 514

Overview of metal bodies for GEMÜ 514											
Threaded connections										Flanges	
Connection code	1			3C	9		3D			13	47
Material code	9	37	37	37	9	37	9	37	37	34	34
Body configuration		2/2-way body	Angle body					2/2-way body	Angle body		
DN 15	X	X	X	X	X	X	X	X	X	X	X
DN 20	X	X	X	X	X	X	X	X	X	X	X
DN 25	X	X	X	X	X	X	X	X	X	X	X
DN 32	X	X	X	X	-	X	X	X	X	X	X
DN 40	X	X	X	X	X	X	X	X	X	X	X
DN 50	X	X	X	X	X	X	X	X	X	X	X

# Specification sheet

for designing regulating cones for globe valves

Project (customer) \_\_\_\_\_ Valve/TAG number \_\_\_\_\_

Date \_\_\_\_\_ Telephone \_\_\_\_\_

Contact person \_\_\_\_\_ E-Mail \_\_\_\_\_

## Technical requirements

Medium <sup>1)</sup> \_\_\_\_\_

Requirement characteristic	1st operating point maximum flow		2nd operating point medium flow		3rd operating point minimum flow	
Media temperature <sup>4)</sup>		°C		°C		°C
Inlet pressure		bar(g)		bar(g)		bar(g)
Outlet pressure		bar(g)		bar(g)		bar(g)
<b>Flow rate <sup>2, 3)</sup></b>						
in [m <sup>3</sup> /h] for liquids		m <sup>3</sup> /h		m <sup>3</sup> /h		m <sup>3</sup> /h
Gases <sup>6)</sup>		Nm <sup>3</sup> /h		Nm <sup>3</sup> /h		Nm <sup>3</sup> /h
in [kg/h] for steam		kg/h		kg/h		kg/h

Valve body / Actuator	Type					
	Required valve DN					
	Max. operating pressure					
	Ambient temperature <sup>5)</sup>					
	Max. media temperature					
	Connection					
	Body material					
	Seat seal	<input type="radio"/> PTFE	<input type="radio"/> Other			
	Control function	<input type="radio"/> NC (normally closed)	<input type="radio"/> DA (double acting)	<input type="radio"/> Double acting (normally open)		
	Control pressure	min	max			
Regulating cone	Characteristic	<input type="radio"/> linear	<input type="radio"/> modified equal-percentage			
	<input type="checkbox"/> Other					

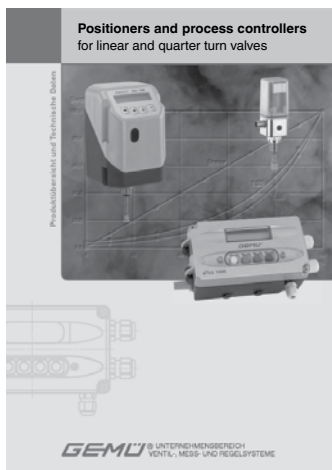
- Liquid or gas?  
For media other than water or air, it is necessary to give data for the density and viscosity (with unit of measurement) of the medium. Otherwise we will assume data for standard conditions.
- For steam especially, the minimum or maximum flow rate should be assigned to the appropriate inlet or outlet pressure. The temperature of the medium should also be taken into account.
- GEMÜ recommends a positioning ratio of 1 : 10 (e.g. minimum flow rate is 10 m<sup>3</sup>/h and the maximum flow rate is 100 m<sup>3</sup>/h). Please note that the valve only controls reliably from a flow of

about 10% of the max. Kv value on account of the valve opening behaviour. Other positioning ratios are possible on request or in the selection of standard regulating cones.

- The media temperature range must be specified for steam applications. T = 20 °C is assumed unless specified otherwise.
- This data is not absolutely necessary. A room temperature of 20 °C is assumed unless specified otherwise.
- Basis: standard conditions 0 °C, 1013.25 mbar. If conditions differ, please specify them.

Positioner functions / features			
	1434 $\mu$ Pos	1435 ePos	1436 cPos
<b>Controller type</b>			
Positioner	X	X	X
Process controller			X
<b>Control air flow</b>			
Version 1	15 l/min	50 l/min	150 l/min
Version 2		90 l/min	200 l/min
<b>Operation</b>			
Local display / keypad		X	X
Status display	X	X	X
Web browser user			X
Field bus (Profibus DP, Device Net)			X
<b>Signal</b>			
24V DC / 3-wire	X	X	X
<b>Body</b>			
Plastic	X		X
Aluminium / industrial		X	
<b>Functions</b>			
Automatic initialisation	X	X	X
Alarm / error outputs		X	X
Min/max positions adjustable		X	X

GEMÜ 1434  $\mu$ Pos not available for actuator size 2



For detailed information on positioners and process controllers please refer to the adjacent brochure.

For further globe valves, accessories and other products, please see our Product Range catalogue and Price List. Contact GEMÜ.

## Other GEMÜ control valves



**GEMÜ 530**  
+ 1434  $\mu$ Pos



**GEMÜ 532**  
+ 1435 ePos



**GEMÜ 534**  
+ 1436 cPos



**GEMÜ 550**  
+ 1434  $\mu$ Pos



**GEMÜ 554**  
+ 1435 ePos

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Should there be any doubts or misunderstandings, the German version of this data sheet is the authoritative document!

Subject to alteration · 10/2020 · 88342357