

Angle Seat Globe Control Valve, Metal

Construction

The GEMÜ 554 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

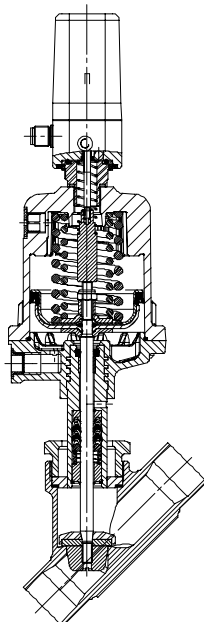
- Linear or modified equal-percentage control characteristics
- Kv values from approx. 0.16 - 60.0 m³/h, depending on nominal size, valve seat and regulating cone design
- PID control system can be implemented with GEMÜ 1436
- Suitable for inert, corrosive*, liquid and gaseous media and steam
- Max. 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. 1935)
- Standard gland packing suitable for vacuum up to 20 mbar (abs.)

*see information on working medium on page 2

Sectional drawing



**GEMÜ 554
+ 1434 µPos**



**GEMÜ 554
+ 1435 ePos**



**GEMÜ 554
+ 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 mm²/s (cSt)

Ambient conditions

Max. ambient temperature 60°C

Control medium

Inert gases, max. 60°C

Filling volume	Actuator size 0:	0.050 dm ³
	Actuator size 1:	0.125 dm ³
	Actuator size 2:	0.625 dm ³

Control pressure [bar]

Normally closed (NC)

Actuator size	
0	4.8 - 7.0
1	5.5 - 7.0
2	4 - 7 (DN 20 - 40) 5 - 7 (DN 50)

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, 3C, 3D, 9 (to DN 50)	9	16.0	16.0	16.0	13.5	-	-
1, 9 (up DN 65)	9	10.0	10.0	10.0	8.5	-	-
1, 9, 17, 37, 60, 3C, 3D	37	25.0	23.8	21.4	18.9	17.5	16.1
0, 16, 17, 18, 37, 59, 60	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
80, 88 (DN 15 - DN 40)	34	25.0	21.2	19.3**	-	-	-
80, 88 (DN 50 - DN 80)	34	16.0	16.0	16.0**	-	-	-
82 (DN 15 - DN 32)	34	25.0	21.2	19.3**	-	-	-
82 (DN 40 - DN 65)	34	16.0	16.0	16.0**	-	-	-
86 (DN 15 - DN 40)	34	25.0	21.2	19.3**	-	-	-
86 (DN 50 - DN 65)	34	16.0	16.0	16.0**	-	-	-
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
All pressures are gauge pressures.

** max. temperature 140 °C

RT = Room Temperature

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 ³ /h]	Operating pressure [bar]	Actuator size	Regulating cone number	
				linear	equal-percentage (mod.)
15	5.0	12.0	0	RS001	RS011
		25.0	1	RS000	RS010
20	10.0	6.0	0	RS002	RS012
		20.0	1	RS003	RS013
25	15.0	10.0	1	RS004	RS014
32	24.0	7.0	1	RS080	RS090
		20.0	2	RS005	RS015
40	38.0	4.5	1	RS081	RS091
		12.0	2	RS006	RS016
50	50.0	3.0	1	RS082	RS092
	60.0	10.0	2	RS007	RS017

* not for connection code 37, 59, 80, 88; standard regulating cone - see following table

Technical data

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

Nominal size DN	Kv value [m³/h]	Operating pressure [bar]	Actuator size	Regulating cone number	
				linear	equal-percentage (mod.)
15	2.7	12.0	0	RS051	RS041
		25.0	1	RS050	RS040
20	6.3	6.0	0	RS052	RS042
		20.0	1	RS053	RS043
25	13.3	10.0	1	RS054	RS044
40	35.6	4.5	1	RS078	RS048
		12.0	2	RS056	RS046
50	50.0	3.0	1	RS079	RS049
	58.0	10.0	2	RS057	RS047

* only for connection code 37, 59, 80, 88;

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

Nominal size DN	Kv value [m³/h]	Operating pressure [bar]	Actuator size	Regulating cone no.	
				linear	equal-percentage (mod.)
15	0.16 ²⁾	25	1	RB201	RA402
	0.25 ²⁾	25	1	RB202	RB401
	0.40 ²⁾	25	1	RB203	RB402
	0.63 ²⁾	25	1	RC201	RC401
	1.00 ²⁾	25	1	RC202	RC402
	1.60	25	1	RD201	RD401
	2.50 ³⁾	25	1	RE201	RE401
20	1.60	25	1	RD202	RD402
	2.50	25	1	RE202	RE402
	4.00	25	1	RF201	RF401
	6.30 ³⁾	25	1	RG201	RG401
25	2.50	25	1	RE203	RE403
	4.00	25	1	RF202	RF402
	6.30	25	1	RG202	RG402
	10.00 ³⁾	15	1	RH201	RH401
32	4.00	25	1	RF203	RF403
	6.30	25	1	RG203	RG403
	10.00	16	1	RH202	RH402
	16.00	11	1	RJ201	RJ401
40	6.30	25	1	RG204	RG404
	10.00	18	1	RH203	RH403
	16.00	11	1	RJ202	RJ402
	25.00	18	2	RK201	RK401
50	10.00	18	1	RH204	RH404
	16.00	12	1	RJ203	RJ403
	25.00	24	2	RK202	RK402
	40.00	15	2	RM201	RM401

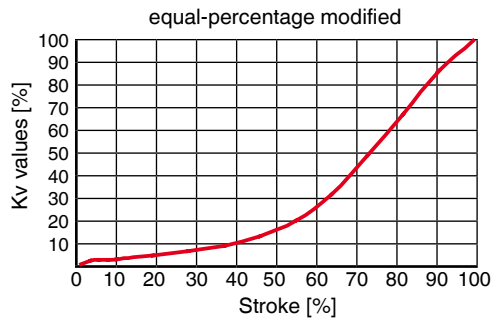
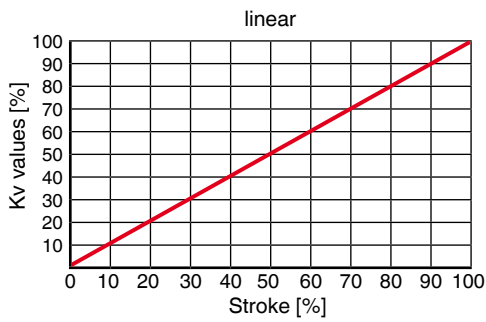
¹⁾ Angle seat globe valve bodies with valve body material code C2 and reduced seat have a surface roughness of $R_a \leq 1.2 \mu\text{m}$ due to the reduction in the seat area.

²⁾ metal seated (with no soft seat)

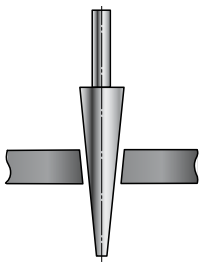
³⁾ not for connection code 37, 59, 80, 88

Technical data

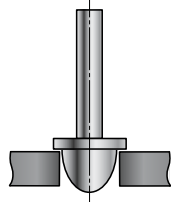
Example Kv value diagram



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

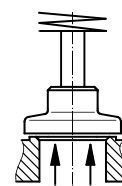
Connection	Code
Butt weld spigots	
Spigots DIN	0
Spigots EN 10357 series B	16
Spigots EN 10357 series A	17
Spigots DIN 11850 series 3	18
Spigots DIN 11866 series 1A	1A
Spigots DIN 11866 series 1B	1B
Spigots SMS 3008	37
Spigots ASME BPE	59
Spigots ISO 1127 / EN 10357 series C	60
Threaded connections	
Threaded sockets DIN ISO 228	1
Threaded sockets BS 21 Rc length DIN 3202-4 series M8	3C
Threaded spigots DIN ISO 228	9
Threaded sockets NPT length DIN 3202-4 series M8	3D
Flanges	
Flanges EN 1092 / PN25 / form B	13
Flanges ANSI CLASS 125/150 RF	47
Clamp connections	
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

Valve body material	Code
(Rg 5) CC499K, Cast bronze	9
1.4435 (ASTM A 351 CF3M $\approx$ 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 reinforced	5G
Steel (standard up to Kv value 1.00 m ³ /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	

Actuator size	Flow	Code
Actuator 0 piston $\varnothing$ 50 mm	under the seat	0
Actuator 1 piston $\varnothing$ 70 mm	under the seat	1
Actuator 2 piston $\varnothing$ 120 mm	under the seat	2



Flow under the seat

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

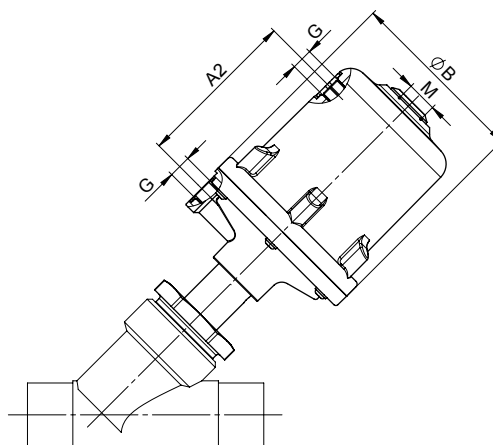
K number	Code
Surface finish only for valve body material C2	
external surface electrolytically gloss polished / mechanically polished internal $R_a \leq 0.6 \mu\text{m}$	1903
external surface electrolytically gloss polished / mechanically polished internal $R_a \leq 0.8 \mu\text{m}$	1904
external surface electrolytically gloss polished / mechanically polished internal $R_a \leq 0.4 \mu\text{m}$	1909

For further order data see page 6

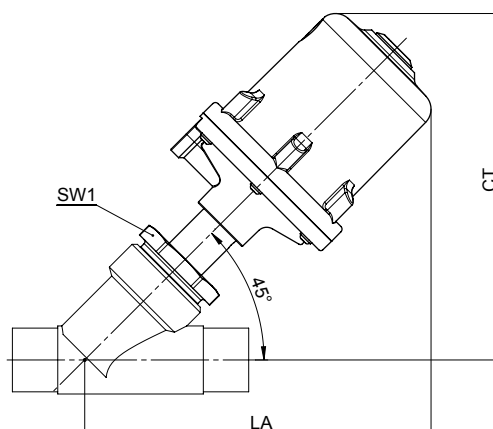
Order example	554	25	D	9	37	5	1	1	RS014	1903
Type	554									
Nominal size		25								
Body configuration (code)			D							
Connection (code)				9						
Valve body material (code)					37					
Seat seal (code)						5				
Control function (code)							1			
Actuator size (code)								1		
Regulating cone (R-No.)									RS014	
K number (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.										

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

Actuator dimensions				
Actuator size	ø B	M	A2	G
0	72.0	M 16x1	70	G 1/4
1	96.0	M 16x1	86	G 1/4
2	168.0	M 22x1.5	149	G 1/4



Installation dimensions / Weight [kg]							
		Actuator size 0		Actuator size 1		Actuator size 2	
DN	Wrench size SW1	H/LA	Weight	H/LA	Weight	H/LA	Weight
15	36	155	0.9	182	1.4	-	-
20	41	165	1.1	192	1.6	279	-
25	46	165	1.3	192	1.8	279	-
32	55	-	-	200	2.4	287	5.1
40	60	-	-	206	2.7	293	6.0
50	75	-	-	214	3.4	301	6.9



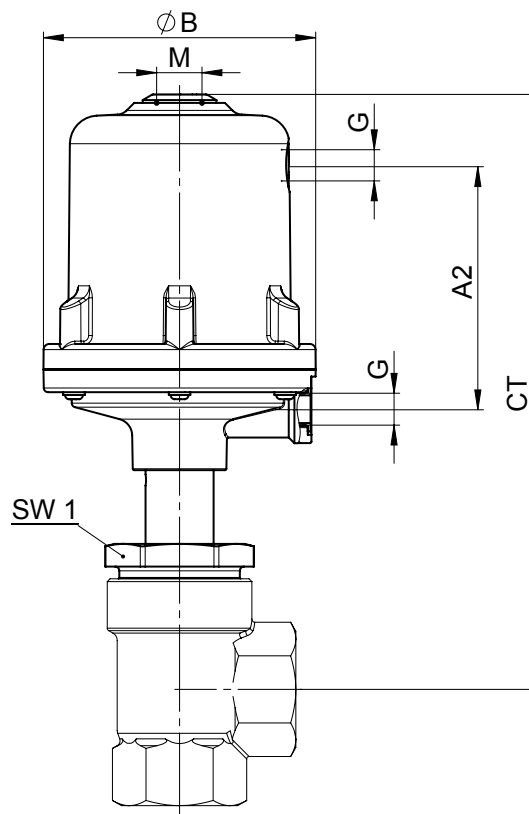
Actuator dimensions / Installation dimensions - Valve with angle body [mm]

Actuator dimensions

Actuator size	ø B	M	A2	G
0	72.0	M 16x1	70	G 1/4
1	96.0	M 16x1	86	G 1/4
2	168.0	M 22x1.5	149	G 1/4

Installation dimensions / Weight [kg]

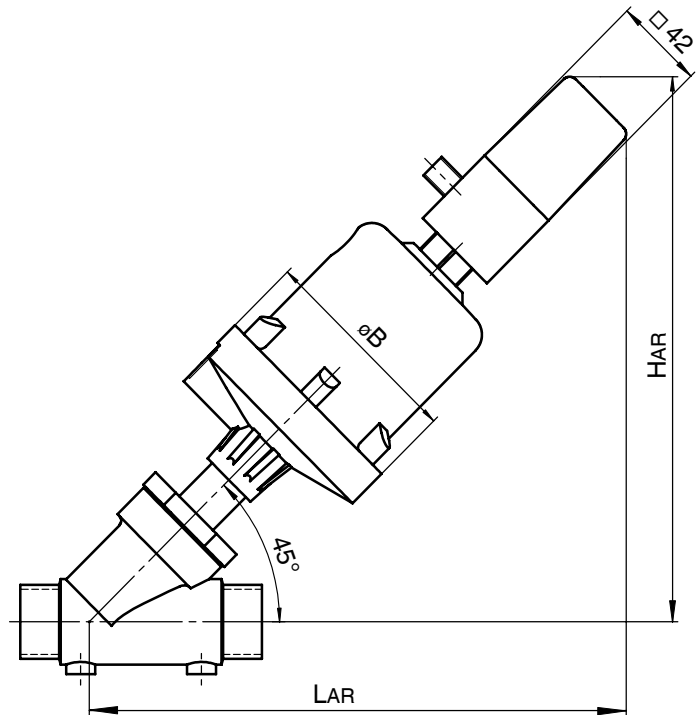
		Actuator size 0 and 3		Actuator size 1 and 4		Actuator size 2	
DN	Wrench size SW1	CT	Weight	CT	Weight	CT	Weight
15	36	172	0.9	200	1.4	-	-
20	41	175	1.1	203	1.6	298	-
25	46	179	1.3	207	1.8	302	-
32	55	-	-	210	2.4	305	5.1
40	60	-	-	215	2.7	310	6.0
50	75	-	-	222	3.4	317	6.9



2/2-way body

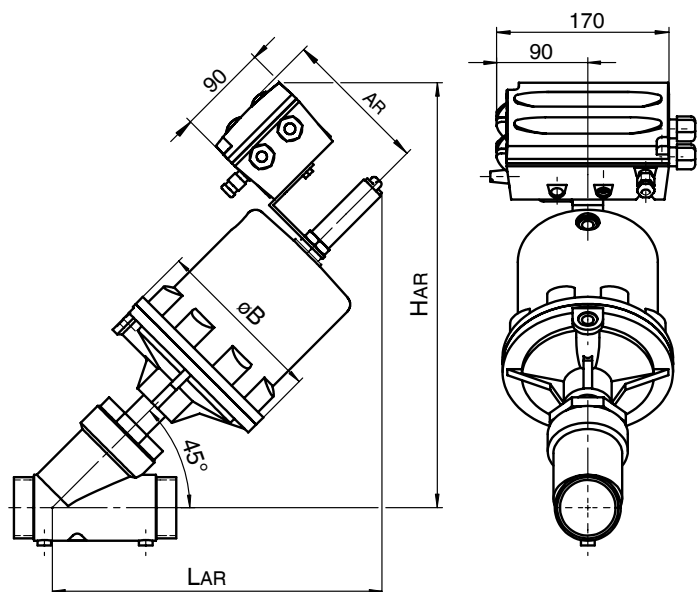
GEMÜ 554 with 1434 μ Pos

DN	Actuator size	Control function	$\varnothing B$	LAR / HAR
15	0	1	72	225
	1	1	96	245
20	0	1	72	235
	1	1	96	255
25	1	1	96	255
32	1	1	96	263
40	1	1	96	269
50	1	1	96	276



GEMÜ 554 with 1435 ePos

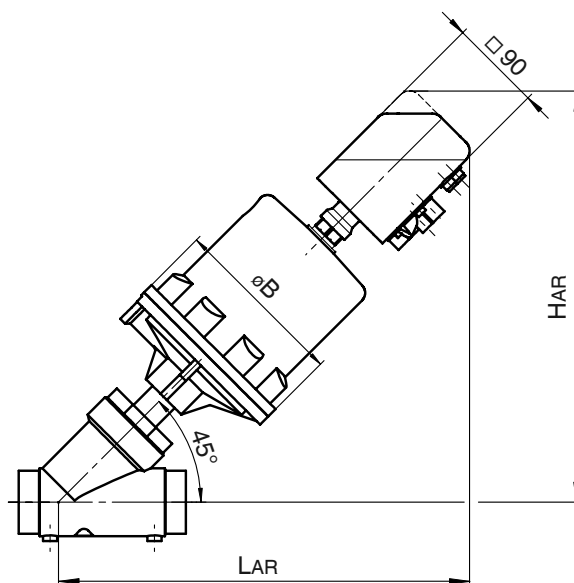
DN	Actuator size	Control function	$\varnothing B$	LAR	HAR	AR
15	0	1	72	189	283	118
	1	1	96	208	303	118
20	0	1	72	198	293	118
	1	1	96	218	312	118
	2	1	168	304	397	138
		3 and 8	168	318	410	138
25	1	1	96	218	312	118
32	1	1	96	226	320	118
	2	1	168	312	405	138
		3 and 8	168	325	418	138
40	1	1	96	232	326	118
	2	1	168	318	411	138
		3 and 8	168	331	424	138
50	1	1	96	239	334	118
	2	1	168	326	418	138
		3 and 8	168	339	432	138



2/2-way body

GEMÜ 554 with 1436 cPos

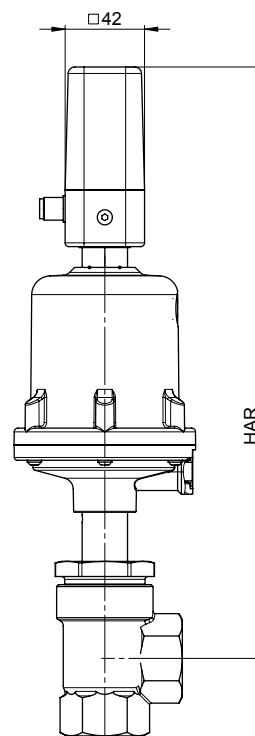
DN	Actuator size	Control function	øB	LAR / HAR
15	0	1, 3, 8	72	279
	1	1	96	282
		3 and 8	96	299
20	0	1, 3, 8	72	289
	1	1	96	292
		3 and 8	96	309
25	1	1	96	292
		3 and 8	96	309
32	1	1	96	300
		3 and 8	96	317
	2	1	168	386
		3 and 8	168	399
40	1	1	96	306
		3 and 8	96	322
	2	1	168	392
		3 and 8	168	405
50	1	1	96	313
		3 and 8	96	330
	2	1	168	400
		3 and 8	168	413



Angle body

GEMÜ 554 with 1434 µPos

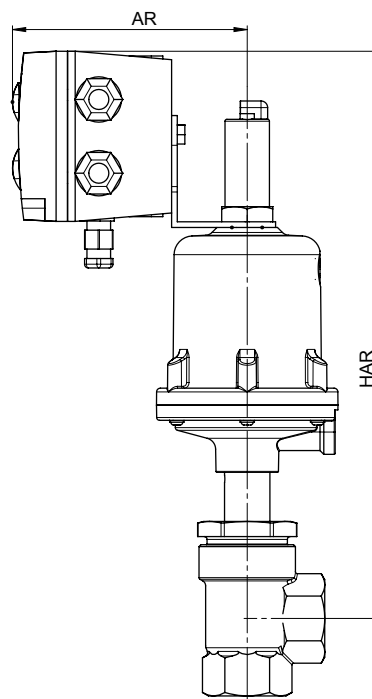
DN	Actuator size	Control function	HAR
15	0	1	278
	1	1	306
20	0	1	281
	1	1	309
25	1	1	313
32	1	1	316
40	1	1	321
50	1	1	328



Angle body

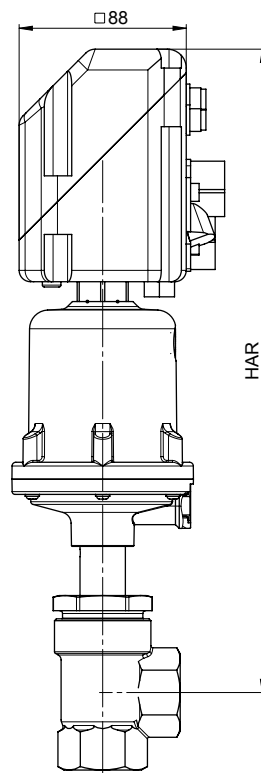
GEMÜ 554 with 1435 ePos

DN	Actuator size	Control function	HAR	AR
15	0	1	262	118
	1	1	290	118
20	0	1	265	118
	1	1	293	118
	2	1	393	138
		3 and 8	412	138
25	1	1	297	118
32	1	1	300	118
	2	1	400	138
		3 and 8	419	138
40	1	1	305	118
	2	1	405	138
		3 and 8	424	138
50	1	1	312	118
	2	1	412	138
		3 and 8	431	138



GEMÜ 554 with 1436 cPos

DN	Actuator size	Control function	HAR
15	0	1, 3, 8	321
	1	1	325
		3 and 8	349
20	0	1, 3, 8	324
	1	1	328
		3 and 8	352
25	1	1	332
		3 and 8	356
32	1	1	335
		3 and 8	359
	2	1	435
		3 and 8	454
40	1	1	340
		3 and 8	364
	2	1	440
		3 and 8	459
50	1	1	347
		3 and 8	371
	2	1	447
		3 and 8	466



Body dimensions [mm]

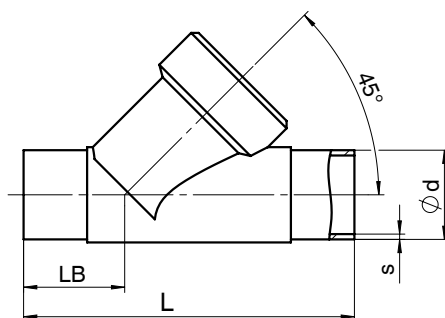
Butt weld spigots, connection code 0, 16, 17, 37, 59, 60
Valve body material: 1.4435 (code 34), 1.4408 (code 37)

					Connection code													
	Material code 34		Material code 37		0		16		17		18		37		59		60	
DN	L	LB	L	LB	ø d	s	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	-	-	12.70	1.65	21.3	1.6
20	120	39.0	108	33	22	1.5	22	1.0	23	1.5	24	2.0	-	-	19.05	1.65	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	25.40	1.65	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	38.10	1.65	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	50.80	1.65	60.3	2.0

For materials see overview on page 9

Butt weld spigots, connection code 1A, 1B, 59
Valve body material: 1.4435 (Code C2)

			Connection code					
			1A		1B		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)

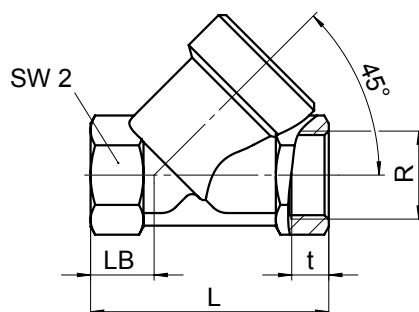
DN	L	LB	R	t	SW2	
15	65	16.5	G 1/2	15.0	27	hexagonal
20	75	17.5	G 3/4	16.3	32	hexagonal
25	90	24.0	G 1	19.1	41	hexagonal
32	110	33.0	G 1 1/4	21.4	50	octagonal
40	120	30.0	G 1 1/2	21.4	55	octagonal
50	150	40.0	G 2	25.7	70	octagonal

For materials see overview on page 9

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

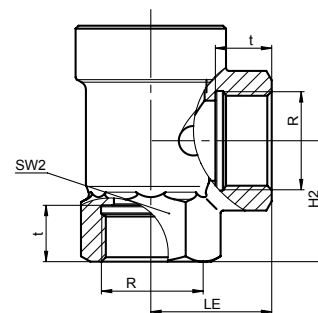
					Connection code			
					3C		3D	
DN	L	LB	SW2		R	t	R	t
15	65	16.5	27	hexagonal	Rc 1/2	15.0	1/2" NPT	13.6
20	75	17.5	32	hexagonal	Rc 3/4	16.3	3/4" NPT	14.1
25	90	24.0	41	hexagonal	Rc 1	19.1	1" NPT	17.0
32	110	33.0	50	octagonal	Rc 1 1/4	21.4	1 1/4" NPT	17.5
40	120	30.0	55	octagonal	Rc 1 1/2	21.4	1 1/2" NPT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

For materials see overview on page 9



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

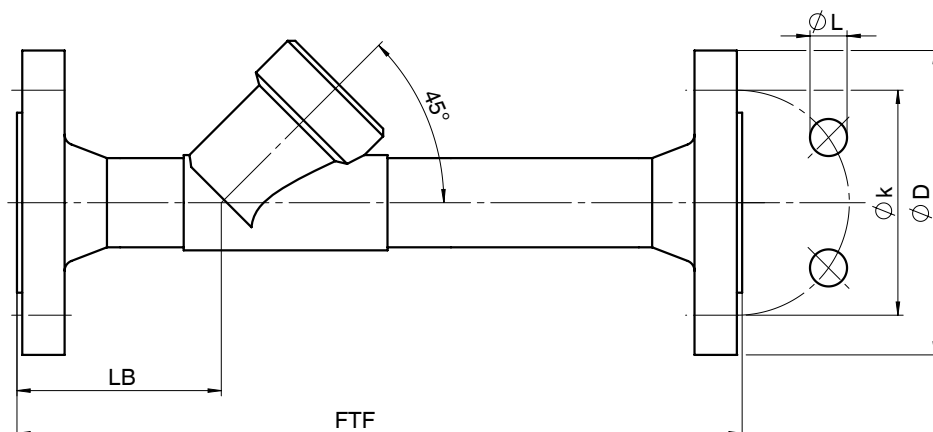
				Connection code 1		Connection code 3D	
DN	SW2	LE	H2	R	t	R	t
15	27	30	30.0	G 1/2	15.0	1/2" NPT	13.6
20	32	35	37.5	G 3/4	16.3	3/4" NPT	14.1
25	41	41	41.0	G 1	19.1	1" NPT	17.0
32	50	50	48.0	G 1 1/4	21.4	1 1/4" NPT	17.5
40	55	50	55.0	G 1 1/2	21.4	1 1/2" NPT	17.3
50	70	60	62.0	G 2	25.7	2" NPT	17.8



Body dimensions [mm]

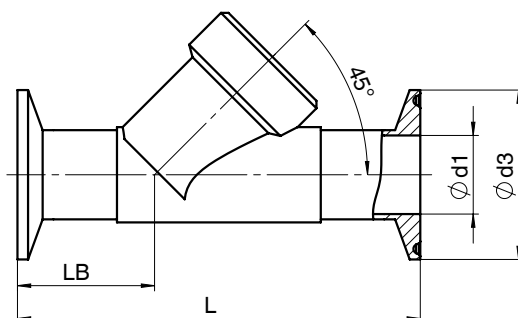
Flanges, connection code 13, 47
Valve body material: 1.4435 (code 34)

DN	FTF	LB	ø D	ø L	ø k	Number of bolt holes
15	210	72	95	14	65	4
20	280	78	105	14	75	4
25	280	77	115	14	85	4
32	310	89	140	18	100	4
40	320	91	150	18	110	4
50	330	95	165	18	125	4



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

DN	NPS	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
15	1/2"	47.5	130	18.1	50.5	16	34.0	9.40	25.0	33.5	101.6	9.40	25.0
20	3/4"	54.0	150	23.7	50.5	20	34.0	15.75	25.0	30.0	101.6	15.75	25.0
25	1"	56.0	160	29.7	50.5	26	50.5	22.10	50.5	33.0	114.3	22.10	50.5
32	1 1/4"	62.0	180	38.4	64.0	32	50.5	-	-	-	-	-	-
40	1 1/2"	67.0	200	44.3	64.0	38	50.5	34.80	50.5	37.0	139.7	34.80	50.5
50	2"	73.0	230	56.3	77.5	50	64.0	47.50	64.0	36.5	158.8	47.50	64.0



Overview of metal bodies for GEMÜ 554												
	Spigots											
Connection code	0	16	17		18	1A	1B	37	59		60	
Material code	34	34	34	37	34	C2	C2	34	34	C2	34	37
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	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
DN 50	X	X	X	X	X	X	X	X	X	X	X	X

Overview of metal bodies for GEMÜ 554															
	Threaded connections									Clamps				Flanges	
Connection code	1			3C	9		3D			80	82	86	88	13	47
Material code	9	37	37	37	9	37	9	37	37	34	34	34	34	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	X	X	X	X
DN 20	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
DN 32	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
DN 50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Information - Specifications

Specification sheet for designing regulating cones for globe valves

Project (customer) _____ Calculation number (GEMÜ) _____
 Date _____ Telephone _____
 Contact person _____ E-Mail _____

Technical requirements

Medium ¹⁾ _____

Requirement characteristic	1st operating point maximum flow		2nd operating point medium flow		3rd operating point minimum flow	
Media temperature ⁴⁾		°C		°C		°C
Inlet pressure		bar(g)		bar(g)		bar(g)
Outlet pressure		bar(g)		bar(g)		bar(g)
Flow rate ^{2, 3)}						
in [m³/h] for liquids		m³/h		m³/h		m³/h
Gases		Nm³/h		Nm³/h		Nm³/h
in [kg/h] for steam		kg/h		kg/h		kg/h

Valve body / Actuator	Type				
	Required valve DN				
	Max. operating pressure				
	Ambient temperature ⁵⁾				
	Max. media temperature				
	Connection				
	Body material				
	Seat seal	☐ PTFE	☐ Other		
	Control function	☐ NC	☐ DA	☐ Double acting (normally open)	
	Regulating cone	☐ linear	☐ equal-% (modified)		
☐ Other					

- 1) Liquid or gas?
 For media other than water or air, it is useful to give data for the viscosity of liquids and the density of gases. Otherwise we will assume data for standard conditions.
- 2) 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.
- 3) GEMÜ recommends a positioning ratio of 1: 10 (e.g. minimum flow rate is 10 m³/h and the maximum flow rate is 100 m³/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, see overleaf.
- 4) The media temperature range must be specified for steam applications. T = 20°C is assumed unless specified otherwise.
- 5) This data is not absolutely necessary. A room temperature of 20° C is assumed unless specified otherwise.

GEMÜ standard regulating cones

DN	Kv value* [m³/h]	GEMÜ 514			GEMÜ 550			GEMÜ 554		
		Actuator size	Regulating cone number		Actuator size	Regulating cone number		Actuator size	Regulating cone number	
			linear	equal-% (mod.)		linear	equal-% (mod.)		linear	equal-% (mod.)
15	5	0	R S601	R S611	1G1	R S101	R S111	0	R S001	R S011
		1	R S600	R S610	2G1	R S100	R S110	1	R S000	R S010
20	10	0	R S602	R S612	2G1	R S102	R S112	0	R S002	R S012
		1	R S603	R S613	2G1	R S103	R S113	1	R S003	R S013
25	15	1	R S604	R S614	2G1	R S104	R S114	1	R S004	R S014
32	24	2	R S605	R S615	3G1	R S105	R S115	2	R S005	R S015
40	38	2	R S606	R S616	3G1	R S106	R S116	2	R S006	R S016
50	60	2	R S607	R S617	4G1			2	R S007	R S017

* Not for connection code 37 (butt weld spigots SMS 3008), 59 (butt weld spigots ASME BPE), 80 (Clamps ASME BPE for pipe ASME BPE, short design) and 88 (clamps ASME BPE for pipe ASME BPE, length EN 558, series 1).

DN	Kv value* [m³/h]	GEMÜ 514			GEMÜ 550			GEMÜ 554		
		Actuator size	Regulating cone number		Actuator size	Regulating cone number		Actuator size	Regulating cone number	
			linear	equal-% (mod.)		linear	equal-% (mod.)		linear	equal-% (mod.)
15	2,7	0	R S651	R S641	1G1	R S151	R S141	0	R S051	R S041
		1	R S650	R S640	2G1	R S150	R S140	1	R S050	R S040
20	6,3	0	R S652	R S642	2G1	R S152	R S142	0	R S052	R S042
		1	R S653	R S643	2G1	R S153	R S143	1	R S053	R S043
25	13,3	1	R S654	R S644	2G1	R S155	R S145	1	R S054	R S044
40	35,6	2	R S656	R S646	3G1	R S156	R S146	2	R S056	R S046
50	58	2	R S657	R S647	4G1			2	R S057	R S047

* Only for connection code 37 (butt weld spigots SMS 3008), 59 (butt weld spigots ASME BPE), 80 (Clamps ASME BPE for pipe ASME BPE, short design) and 88 (clamps ASME BPE for pipe ASME BPE, length EN 558, series 1).

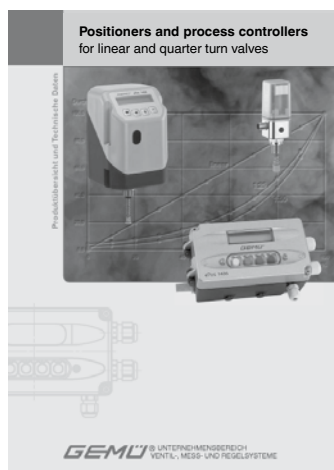
DN	Kv value [m³/h]	GEMÜ 532			GEMÜ 530			GEMÜ 534		
		Actuator size	Regulating cone number		Actuator size	Regulating cone number		Actuator size	Regulating cone number	
			linear	equal-% (mod.)		linear	equal-% (mod.)		linear	equal-% (mod.)
15	4	0	R S621	R S631	1G1	R S121	R S131	0	R S021	R S031
		1	R S620	R S630	2G1	R S120	R S130	1	R S020	R S030
20	6,3	0	R S622	R S632	2G1	R S122	R S132	0	R S022	R S032
		1	R S623	R S633	2G1	R S123	R S133	1	R S023	R S033
25	10	1	R S624	R S634	2G1	R S124	R S134	1	R S024	R S034
32	16	2	R S625	R S635	3G1	R S125	R S135	2	R S025	R S035
40	25	2	R S626	R S636	3G1	R S126	R S136	2	R S026	R S036
50	40	2	R S627	R S637	4G1			2	R S027	R S037

Notes for using standard regulating cones:

- 1) A tolerance of 10% of full flow is possible for the Kv value specifications according to the standard. This must be taken into account in the determination of the maximum Kv value. It is recommendable to allow for a reserve of at least 10%.
- 2) The regulating cone with the Kv value closest to the application should be selected. If regulating cones with too great Kv values are selected, inaccurate positioning and control properties result, especially in the lower Kv range.
- 3) It is possible that the selected valves may be able to regulate much smaller flows than assigned to the appropriate, specified, minimum Kv values. However, these values cannot be guaranteed on account of the mechanical production tolerances for standard control valves.
- 4) Standard regulating cones are only available with PTFE or Elastomer seals. Metal seals are not available.
- 5) Standard control function 1 (NC). Other control functions on request.

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

GEMÜ 1434 μ 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 514
+ 1436 cPos



GEMÜ 530
+ 1434 μ Pos



GEMÜ 532
+ 1435 ePos



GEMÜ 534
+ 1436 cPos



GEMÜ 550
+ 1434 μ Pos

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GEMÜ® VALVES, MEASUREMENT
AND CONTROL SYSTEMS

