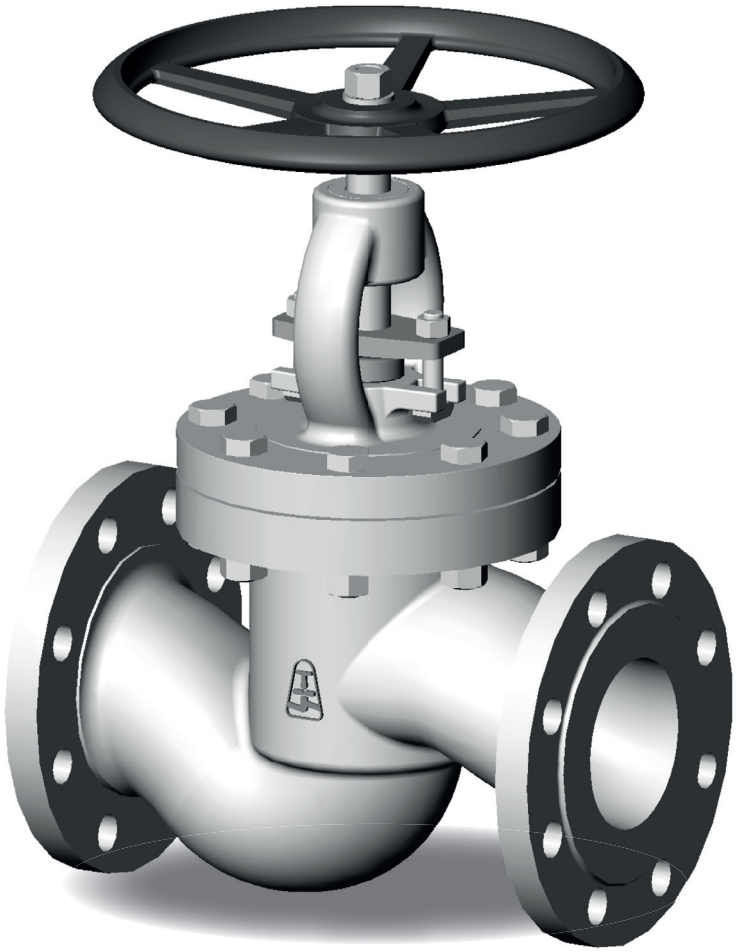
SHUT-OFF GLOBE VALVE C09/C09.4

PN 10–40; DN 15–200; T_{max}: 400 °C



APPLICATION

- water, steam, gases, oils, petroleum products, non-aggressive and aggressive substances

CONNECTION

- flanged, weld ends

OPERATION

- handwheel, gearbox, electric actuator, (remote control, hydraulic actuator on request)

DESCRIPTION

- shut-off globe valve C09 and shut-off globe valve with control cone C09.4
- rotating rising stem
- classic bonnet construction
- the shape of the body is straight
- sealing surfaces of seats are welded by hard steel (except for stainless steel types)
- complies with the requirements of the directive 2014/68 / EU, EN 13 709
- testing is carried out according to EN 12266-1

BASIC DESIGN OPTIONS

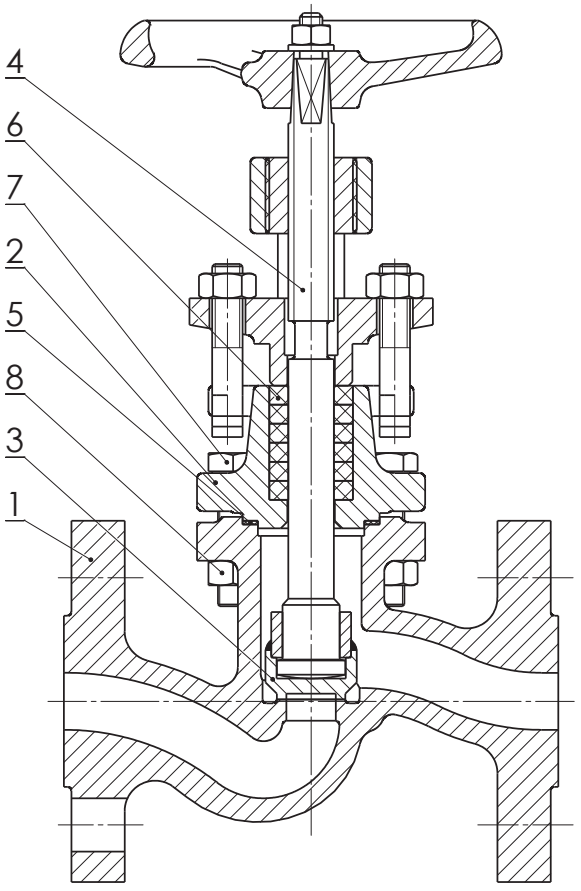
- control cone (for rough control)
- according to TRD 201
- TA-Luft

PRESSURE-TEMPERATURE-RATINGS

Material	PN	Admissible operating pressure PS [bar] at operating temperature TS [°C]										
		-50	-30	-10	50	100	150	200	250	300	350	400
GX5CrNiMo 19-11-2 (1.4408) [1)]	10	10	10	10	10	9,3	8,4	7,8	7,3	-	-	-
	16	16	16	16	16	14,9	13,5	12,4	11,7	-	-	-
	25	25	25	25	25	23,3	21,1	19,4	18,3	-	-	-
	40	40	40	40	40	37,3	33,8	31,1	29,3	-	-	-
GX5CrNi19-10 (1.4308)	10	10	10	10	9,3	8,4	7,6	6,9	6,4	-	-	-
	16	16	16	16	14,9	13,5	12,1	11	10,3	-	-	-
	25	25	25	25	23,3	21,1	18,9	17,2	16,1	-	-	-
	40	40	40	40	37,3	33,8	30,2	27,6	25,8	-	-	-
G21Mn5 (1.1138)	10	-	10	10	10	9,2	8,7	7,9	7,2	6,5	-	-
	16	-	16	16	16	14,8	14	12,8	11,8	10,8	-	-
	25	-	25	25	25	23	21	19,2	18,2	17,2	-	-
	40	-	40	40	40	37	35	32	29,5	27	-	-
GP240GH (1.0619)	10	-	-	10	10	9,3	8,7	7,8	7,1	6,4	6	5,8
	16	-	-	16	16	14,9	13,9	12,4	11,4	10,3	9,6	9,2
	25	-	-	25	25	23,3	21,7	19,4	17,8	16,1	15	14,4
	40	-	-	40	40	37,3	34,7	30,2	28,4	25,8	24	23,1

1) Application for temperatures from - 196 °C to + 250 °C on request

USED MATERIALS



Pos.	Part	Material											
1	Body	GP240GH (1.0619)					G21Mn5 (1.1138)					GX5CrNi19-10 (1.4308)	GX5CrNiMo19-11-2 (1.4408)
	Hard facing of sealing surface	13Cr	13Cr	18Cr9Ni	18Cr9Ni	Stellite 6	13Cr	13Cr	18Cr9Ni	18Cr9Ni	Stellite 6	-	
2	Yoke	GP 240 GH (1.0619)					G21Mn5 (1.1138)					GX5CrNi19-10 (1.4308)	GX5CrNiMo19-11-2 (1.4408)
3	Disc	P250GH (1.0460)					X6CrNiTi18-10 (1.4541)					X6CrNiTi18-10 (1.4541)	X6CrNiMoTi17-12-2 (1.4571)
	Hard facing of sealing surface	13Cr	Stellite 6	18Cr9Ni	Stellite 6	Stellite 6	-					-	
4	Stem	X20Cr13 (1.4021)					X20Cr13 (1.4021)					X5CrNi18-10 (1.4301)	X6CrNiMoTi17-12-2 (1.4571)
5	Gasket	Graphite										PTFE	
6	Gland packing	Graphite										PTFE	
7	Bolt	A2-70											
8	Nut	A2-70											

VALVE DIMENSIONS

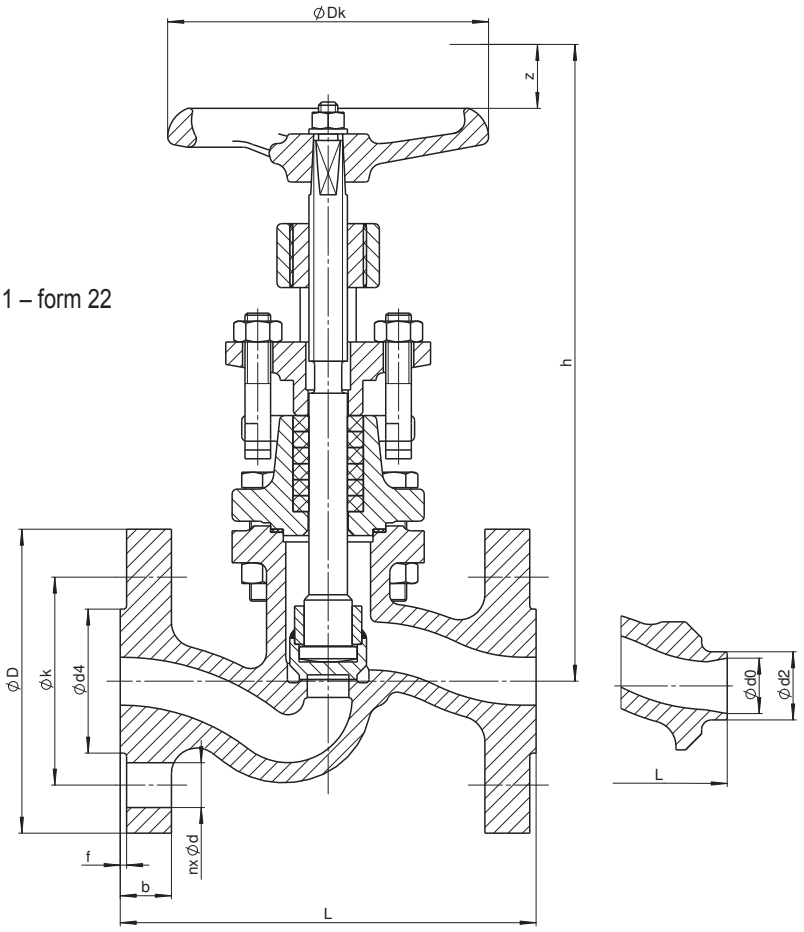
1. Flanged

Face-to-face dimensions: EN 558 – line 1
Flanges: EN 1092-1

2. Weld ends

Face-to-face dimensions: EN 12982 – line 1
Dimensions of welding ends: DIN 3239 – part 1
Groove form: DIN 2559 – sheet 1 – form 22

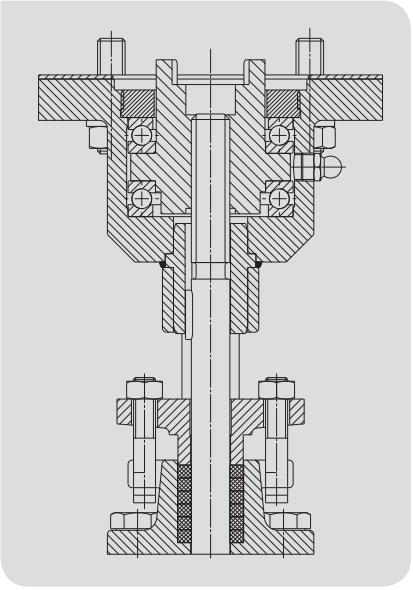
Other adjustments on request



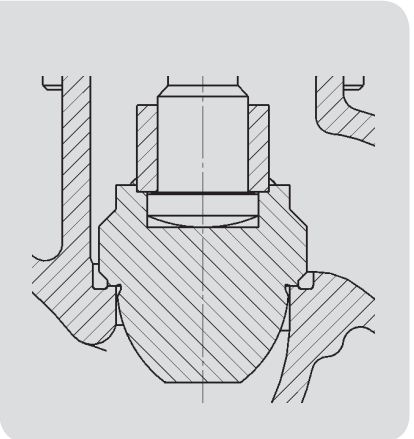
Nominal pressure	Nominal size	Face-to--face	Centre-to--top-height	Stroke	Handwheel	Flanged							Weld ends			
PN	DN	L [mm]	h [mm]	z [mm]	Dk [mm]	n	d [mm]	k [mm]	D [mm]	b [mm]	d4×f [mm]	m [kg]	d2 [mm]	d0 [mm]	m [kg]	Pipe dimension
10, 16	15	130	200	20	125	4	14	65	95	16	45×2	3,5	22	17	2,9	21,3×2,0
	20	150	243	24	125	4	14	75	105	18	58×2	5,5	28	22	3,2	26,9×2,3
	25	160	250	30	125	4	14	85	115	18	68×2	6,0	34	28,5	3,5	33,7×2,6
	32	180	258	23	160	4	18	100	140	18	78×2	9,0	43	37	3,9	42,4×2,6
	40	200	290	30	200	4	18	110	150	18	88×3	12,0	49	43	6,2	48,3×2,6
	50	230	295	35	200	4	18	125	165	18	102×3	15,0	61	54	7,8	60,3×3,2
	65	290	320	25	200	8	18	145	185	18	122×3	22,0	77	69	17,0	76,1×3,6
	80	310	355	37	200	8	18	160	200	20	138×3	27,0	90	81	21,0	88,9×4,0
	100	350	390	45	250	8	18	180	220	20	158×3	39,0	115	104	32,0	114,3×5,0
	125	400	560	65	320	8	18	210	250	22	188×3	57,0	141	130,5	47,0	139,7×4,5
	150	480	710	130	320	8	22	240	285	22	212×3	82,0	170	156,5	69,0	168,3×5,6
10	200	600	874	104	630	8	22	295	340	24	268×3	194,5	222	204,5	179,5	219,1×7,1
16	200	600	874	104	630	12	22	295	340	24	268×3	194,3	222	204,5	179,5	219,1×7,1
25, 40	15	130	200	20	125	4	14	65	95	16	45×2	3,5	22	17	2,5	21,3×2,0
	20	150	243	24	125	4	14	75	105	18	58×2	5,5	28	22	4,0	26,9×2,3
	25	160	250	30	125	4	14	85	115	18	68×2	6,0	34	28,5	4,0	33,7×2,6
	32	180	258	23	160	4	18	100	140	18	78×2	9,0	43	37	6,0	42,4×2,6
	40	200	290	30	200	4	18	110	150	18	88×3	12,0	49	43	8,0	48,3×2,6
	50	230	295	35	200	4	18	125	165	20	102×3	15,0	61	54	11,0	60,3×3,2
	65	290	340	25	200	8	18	145	185	22	122×3	31,0	77	69	25,0	76,1×3,6
	80	310	355	37	250	8	18	160	200	24	138×3	36,0	90	81	29,0	88,9×4,0
	100	350	420	45	320	8	22	190	235	24	162×3	50,0	115	104	41,0	114,3×5,0
	125	400	570	65	400	8	26	220	270	26	188×3	83,0	141	130,5	72,0	139,7×4,5
	150	480	665	65	500	8	26	250	300	28	218×3	112,0	170	156,5	97,0	168,3×5,6
25	200	600	874	104	630	12	26	310	360	30	278×3	220,0	222	204,5	192,0	219,1×7,1
40	200	600	874	104	630	12	30	320	375	34	285×3	221,0	222	204,5	192,0	219,1×7,1

DESIGN VARIANTS

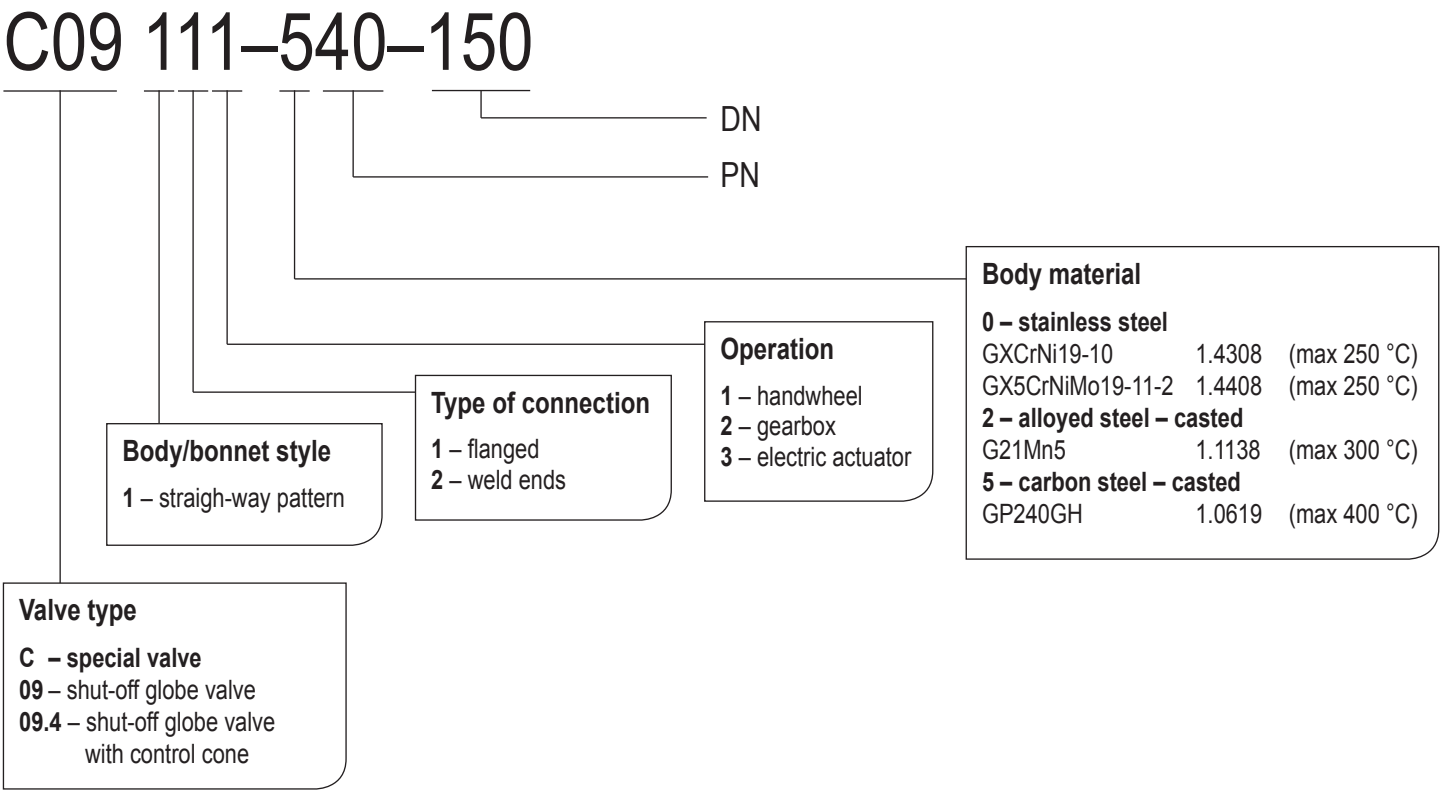
ADJUSTMENT FOR ACTUATOR – FORM C ACCORDING TO DIN 3338



CONTROL CONE



VALVE DESCRIPTION CODE



VALVE INSTALLATION

Valve can be installed in any position. Medium must flow in accordance with the direction indicated on the body. It is necessary to consider the following points during assembly and operation:

- operating conditions must comply with the operating parameters of the valve
- proper function of the valve is affected by the presence of impurities in the pipeline and the flowing medium, therefore it is necessary keep working environment and pipeline clean
- medium used must comply with the corrosion resistance of the valve material
- use of mechanically damaged valves during the operation is prohibited

The service life of valves significantly extends regular maintenance and minor repairs carried out by trained personnel.