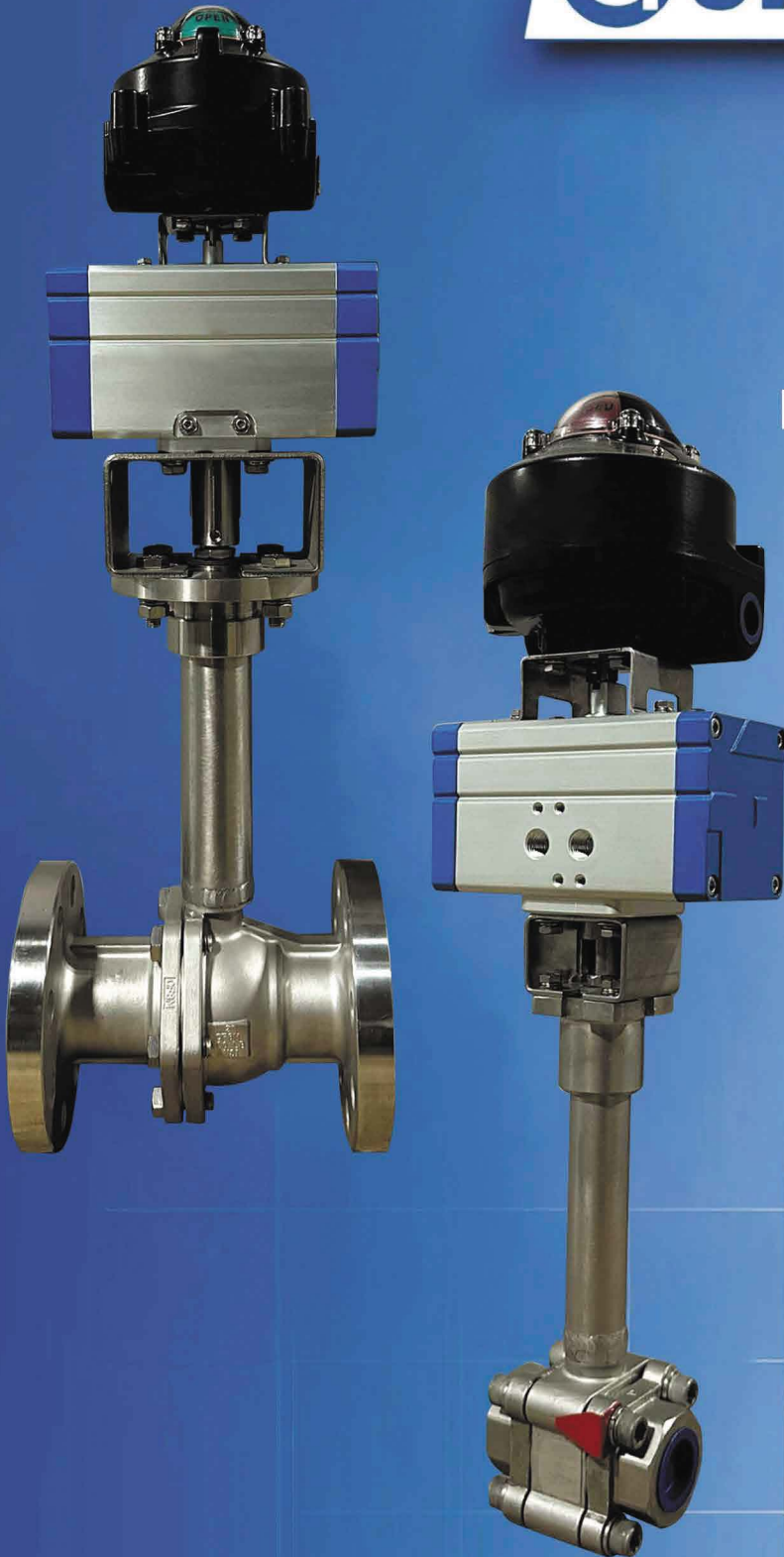
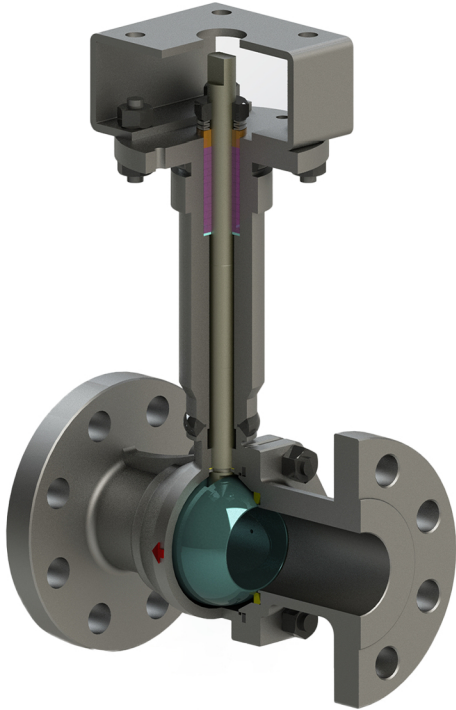


Cryogenic Floating Ball Valves

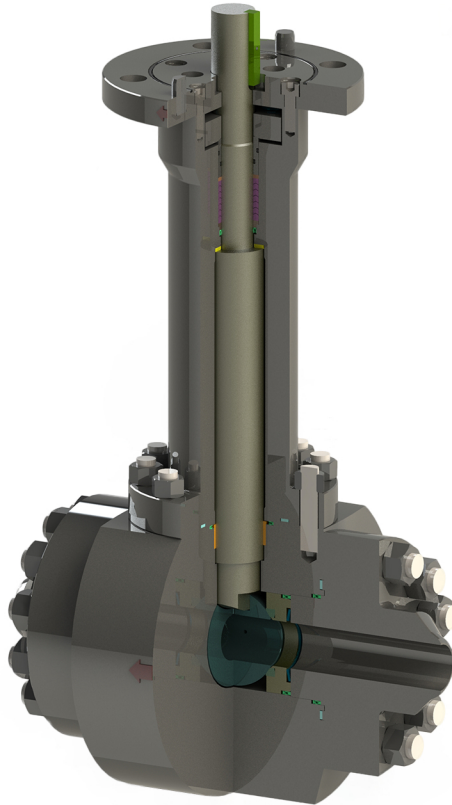




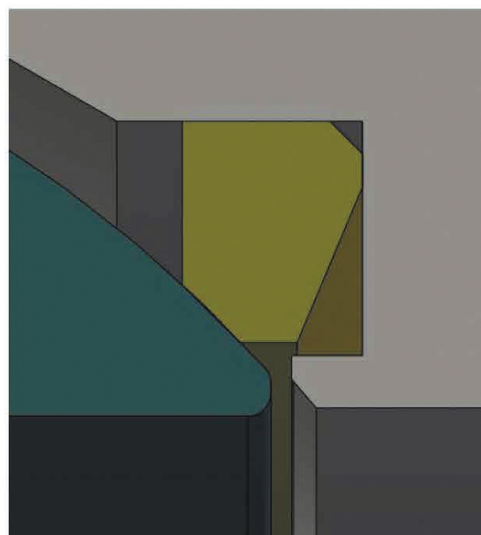
Model F200C
Sizes ½" – 6"
ANSI CLASS 150 - 300#



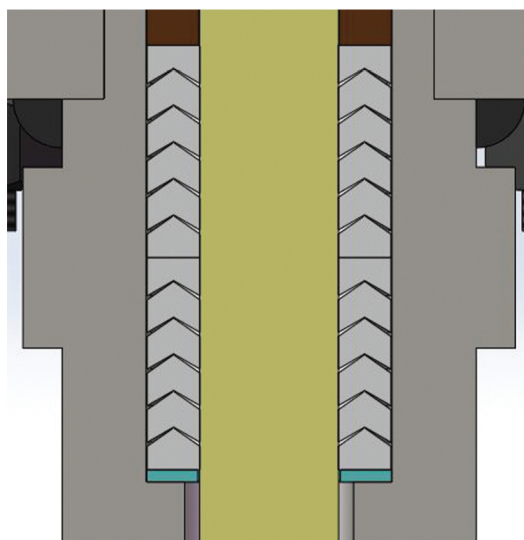
Model 201C
Sizes ¼" – 2"
ANSI CLASS 600 - 900#



Model 22C
Sizes ½" – 1"
ANSI CLASS 2500#

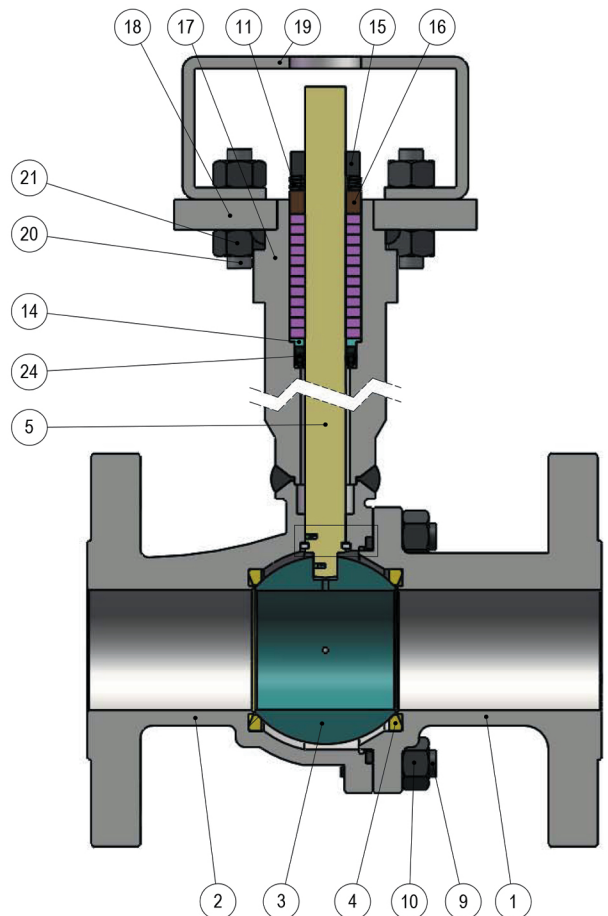
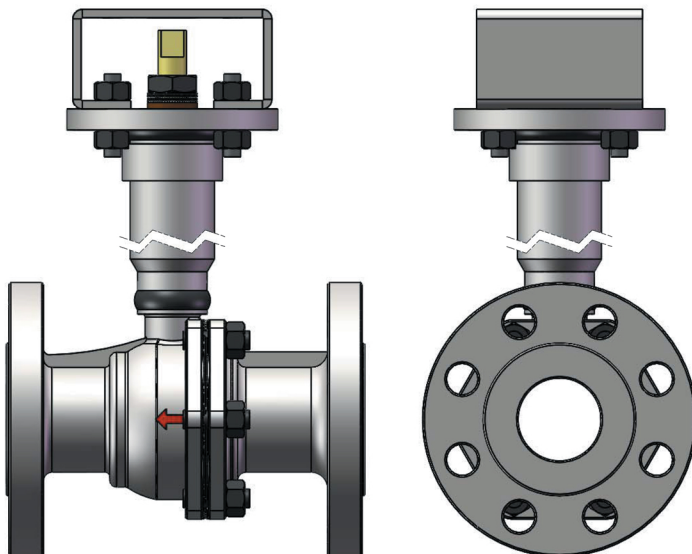
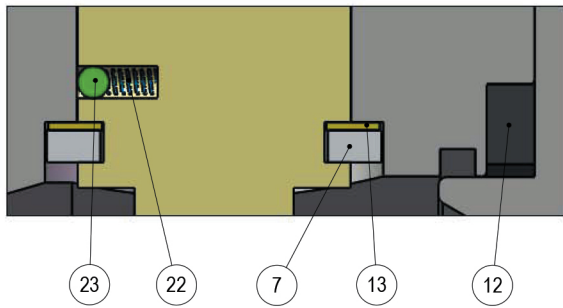


Seat to ball seal view



Stem seal view

Item	Part Description	Material
1	Body	A351 CF8M
2	End adapter	A351 CF8M
3	Ball	17-4PH
4	Seat	PCTFE
5	Stem	17-4PH
6	Lantern ring	SS 316
7	Split ring	SS 316
8	Stem packing	Braided flexible graphite + Graphite / V shaped Teflon stem packing rings
9	Stud	A320 Gr. B8(2)
10	Nut	A194 Gr. 8
11	Disc spring	Inconel X-750
12	Body fire safe seal	Spiral wound SS 316 graphite gasket
13	Thrust washer (Split type)	PCTFE
14	Packing spacer	SS 316
15	Stem nut	SS 316
16	Gland ring	SS 316
17	Lower stem flange	A182 F316
18	Top stem flange	A182 F316
19	Bracket	SS 304
20	Stud	A320 Gr. B8(2)
21	Nut	A194 Gr. 8
22	Antistatic spring	SS 316
23	Antistatic ball	SS 316
24	Stem lipseal (used for 4" & above)	PTFE + Elgiloy spring



ANSI 150

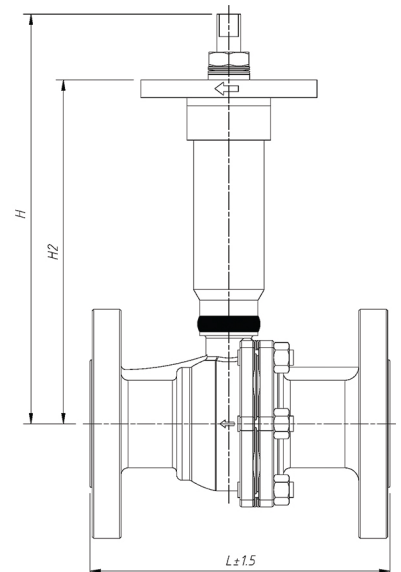
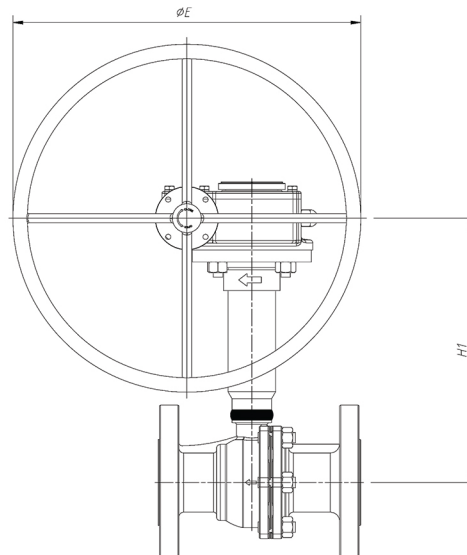
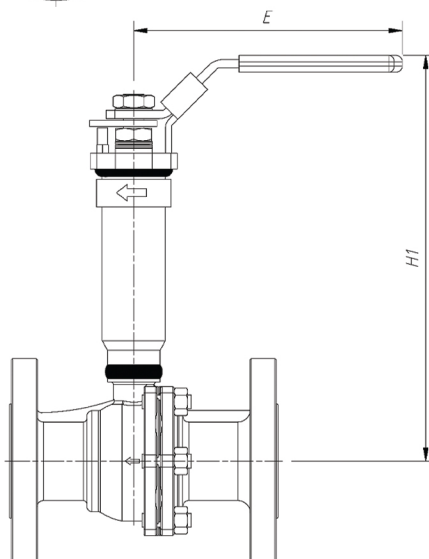
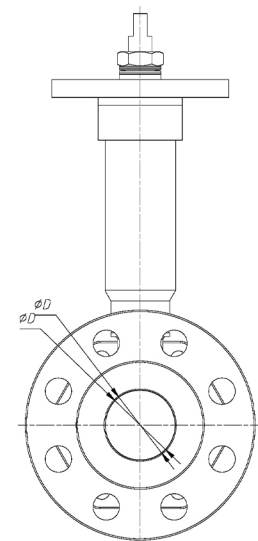
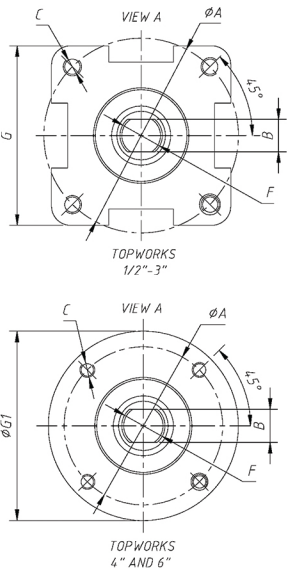
Size	D(mm)	L(mm)	E(mm)	H(mm)	H1(mm)	H2(mm)	A(mm)	B(mm)	C	F	G(mm)	G1(mm)	Weight(kg)
1/2"	15	108	500	276	288	244	51	10	4-1/4-20UNC	5/8-18UNF	51	/	3.8
3/4"	20.6	117	500	281	293	249	51	10	4-1/4-20UNC	5/8-18UNF	51	/	4.5
1"	24.9	127	500	290	302	258	51	10	4-1/4-20UNC	5/8-18UNF	51	/	5
1-1/2"	38.1	165	500	306	318	262	102	17	4-3/8-16UNC	7/8-14UNF	94	/	10.2
2"	50.0	178	500	314	326	270	102	17	4-3/8-16UNC	7/8-14UNF	94	/	13
2-1/2"	66.0	191	500	358	370	311	102	17	4-3/8-16UNC	7/8-14UNF	94	/	21.5
3"	76.2	203	500	368	380	320	102	17	4-3/8-16UNC	7/8-14UNF	94	/	23.8
4"	100.1	229	400*	432	498	362	125	23	4-M12	1-3/8-12UNF	/	150	58
6"	149.9	394	400*	482	548	412	165	29	4-M20	1-3/4-12UNF	/	210	101

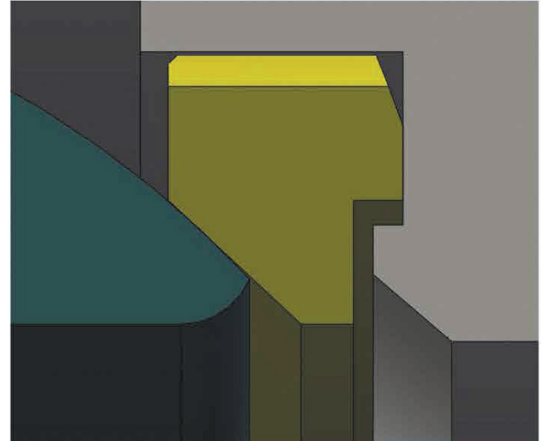
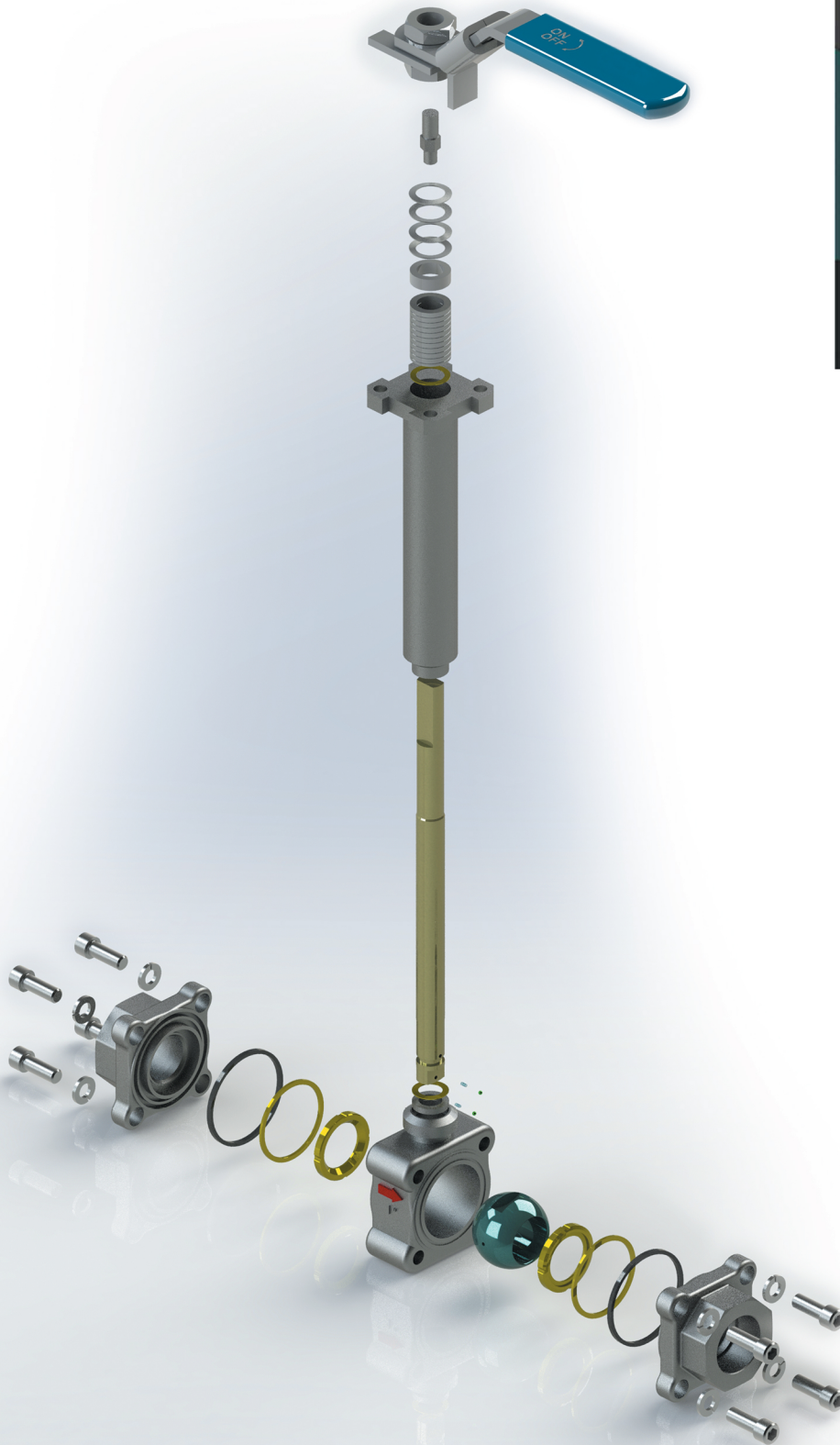
* Gear operated. Handwheel diameter.

ANSI 300

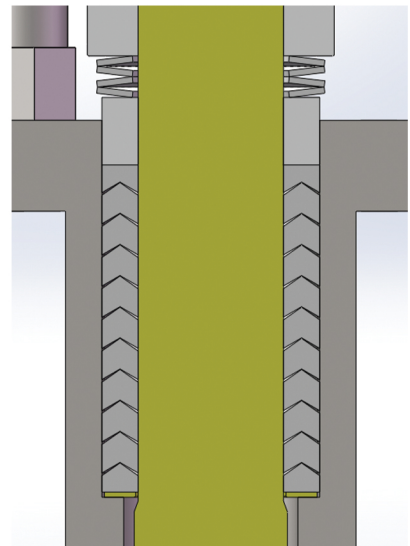
Size	D(mm)	L(mm)	E(mm)	H(mm)	H1(mm)	H2(mm)	A(mm)	B(mm)	C	F	G(mm)	G1(mm)	Weight(kg)
1/2"	15	140	500	276	288	244	51	10	4-1/4-20UNC	5/8-18UNF	51	/	7.5
3/4"	20.6	152	500	281	293	249	51	10	4-1/4-20UNC	5/8-18UNF	51	/	8
1"	24.9	165	500	290	302	258	51	10	4-1/4-20UNC	5/8-18UNF	51	/	8.2
1-1/2"	38.1	191	500	306	318	262	102	17	4-3/8-16UNC	7/8-14UNF	94	/	12.4
2"	50.0	216	500	314	326	270	102	17	4-3/8-16UNC	7/8-14UNF	94	/	15.2
2-1/2"	66.0	241	500	358	370	311	102	17	4-3/8-16UNC	7/8-14UNF	94	/	27.5
3"	76.2	283	500	368	380	320	102	17	4-3/8-16UNC	7/8-14UNF	94	/	31
4"	100.1	305	400*	432	498	362	125	23	4-M12	1-3/8-12UNF	/	150	68
6"	149.9	403	400*	482	548	412	165	29	4-M20	1-3/4-12UNF	/	210	117

* Gear operated. Handwheel diameter.



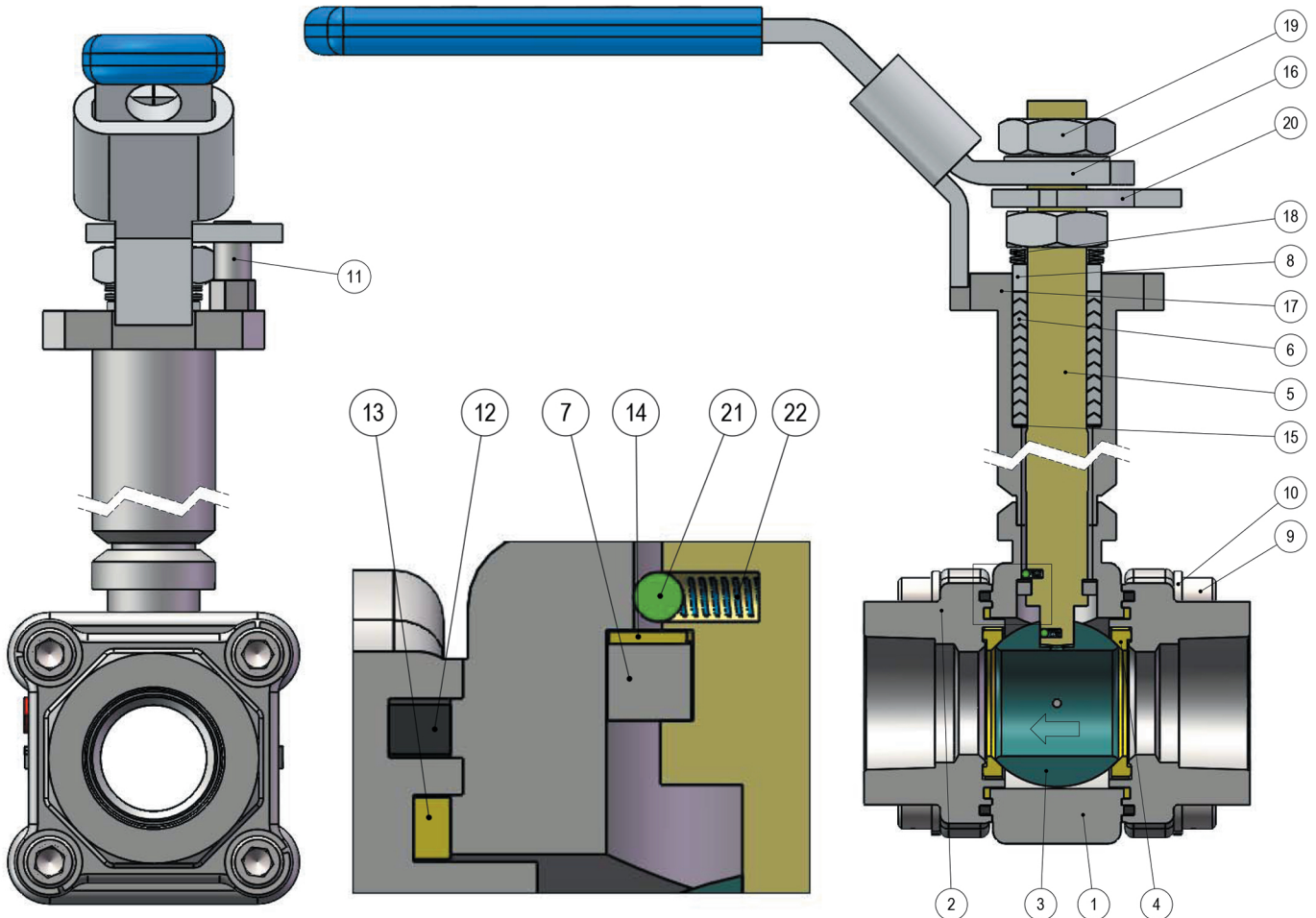


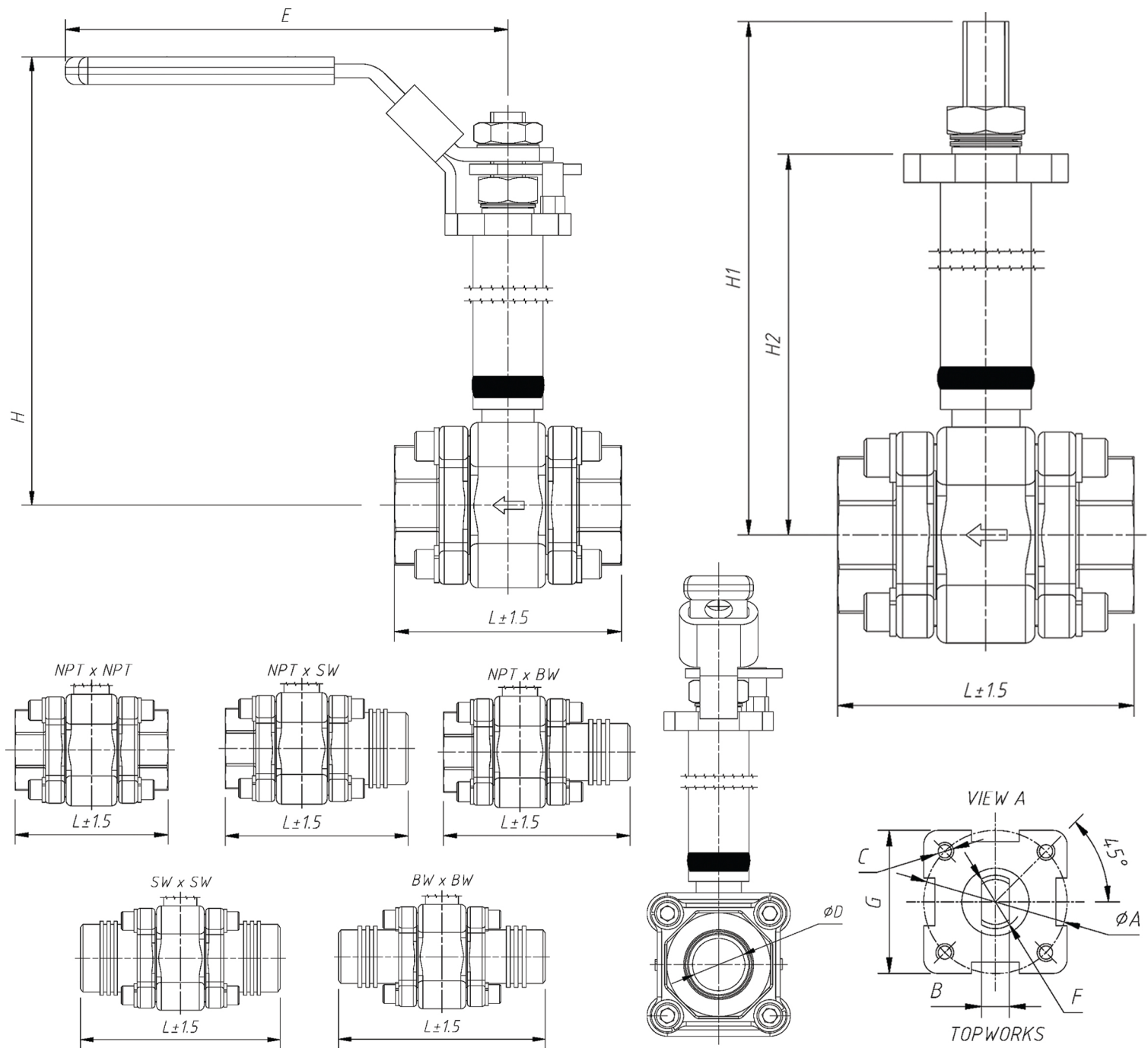
Seat to ball seal view



Stem seal view

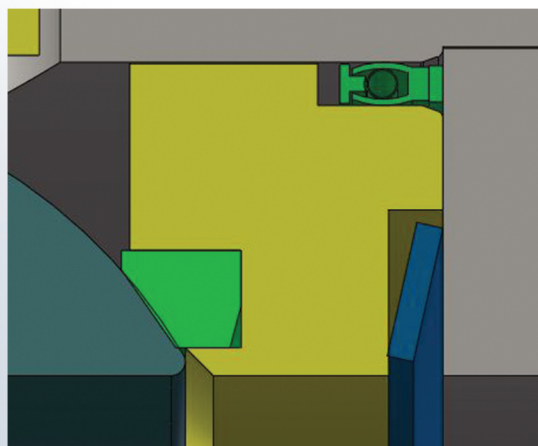
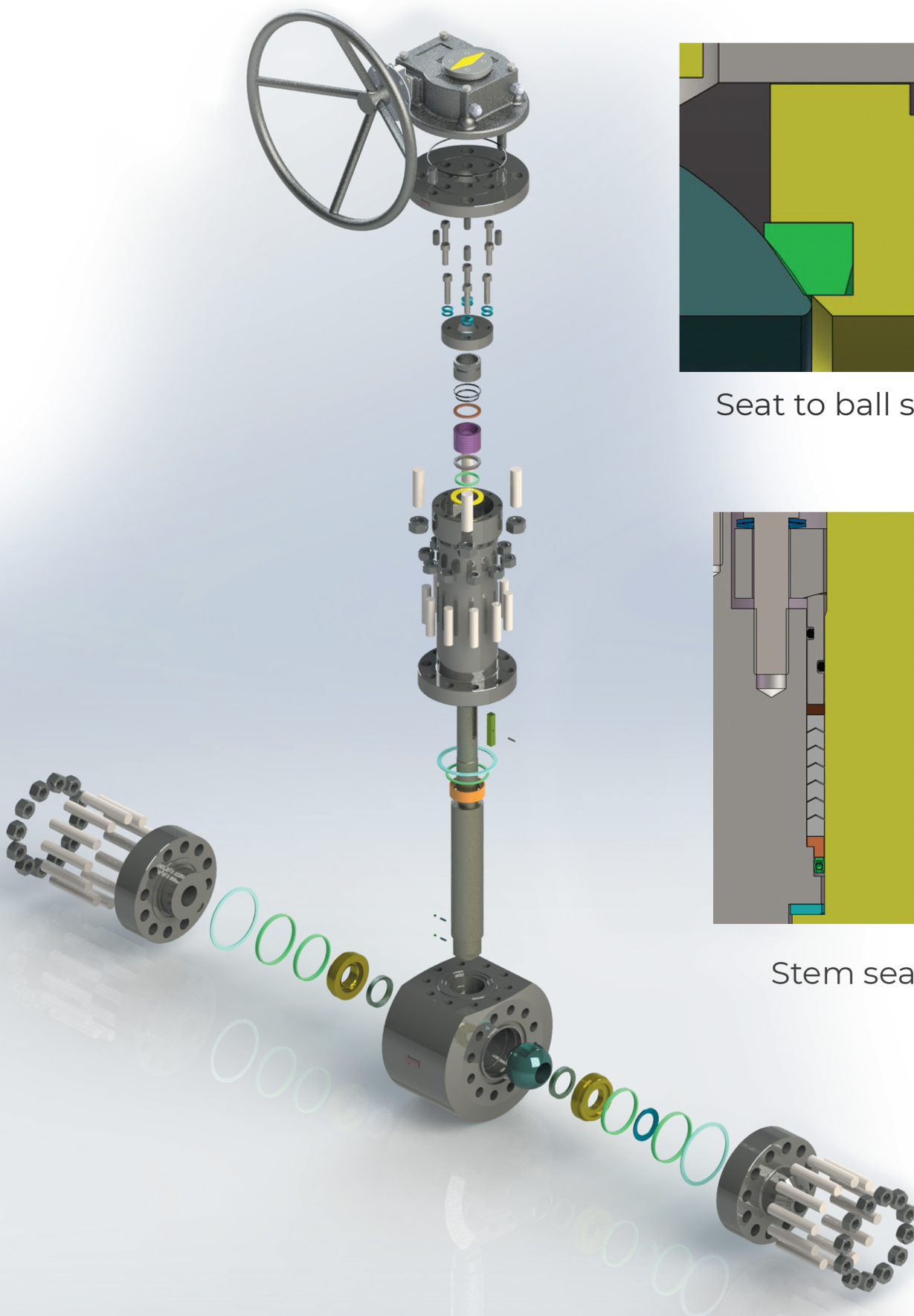
Item	Part Description	Material
1	Body	A351 CF8M
2	Cap	A351 CF8M
3	Ball	17-4PH
4	Seat	PCTFE
5	Stem	17-4PH
6	Stem packing	Braided flexible graphite + Graphite / V shaped Teflon stem packing rings
7	Split ring	SS 316
8	Gland ring	SS 316
9	Socket head capscrews	A320 Gr. B8(2)
10	Spring washer	SS 316
11	Stop pin	SS 316
12	Secondary Body fire safe seal	Graphite
13	Primary Body seal	PCTFE
14	Thrust washer (Split type)	PCTFE
15	Packing spacer	SS 316
16	Handle	SS 304
17	Stem flange	A182 F316
18	Disc spring	Inconel X-750
19	Stem nut	SS 316
20	Stop plate	SS 304
21	Antistatic ball	SS 316
22	Antistatic spring	SS 316



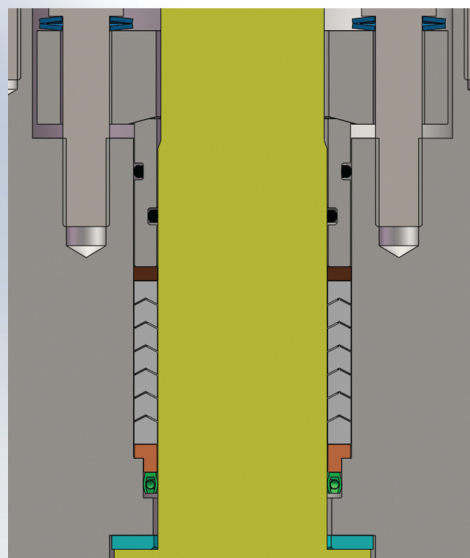


ANSI 600 - 900

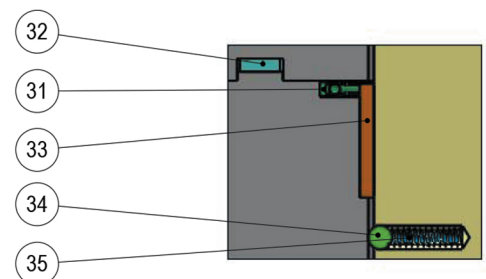
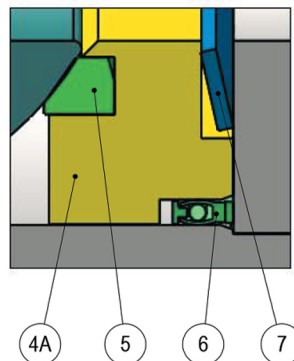
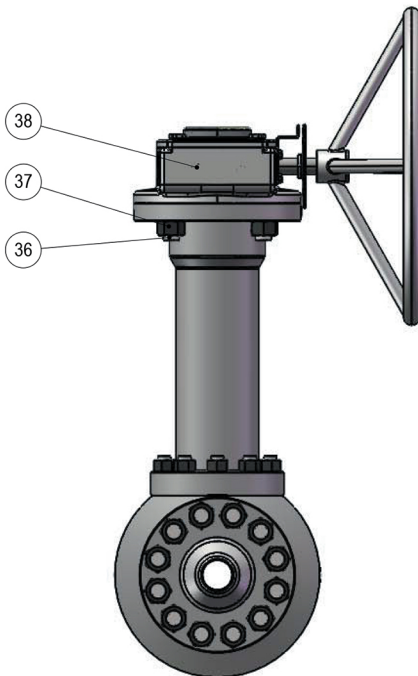
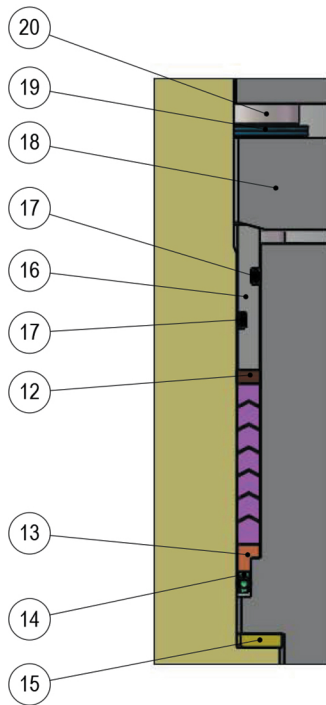
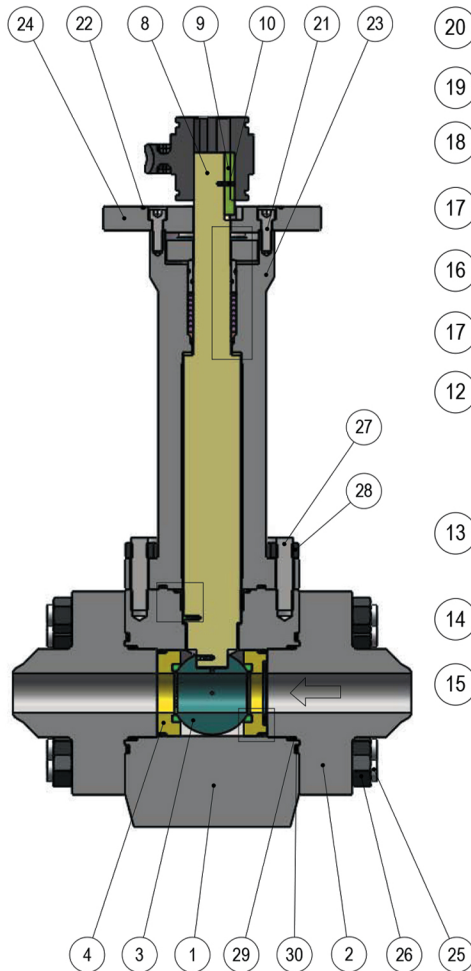
Size	L (NPTxNPT) (mm)	L (NPTxSW) (mm)	L (NPTxBW) (mm)	L (SWxSW) (mm)	L (BWxBW) (mm)	E (mm)	H (mm)	H1 (mm)	H2 (mm)	D (mm)	A (mm)	B (mm)	C	F	G (mm)	Weight (kg)
1/2"	73.6	97.1	97.1	120.6	120.6	250	260	243	211	15	51	10	4-1/4-20UNC	4-1/4-20UNC	51	2.2
3/4"	84.6	104.9	104.9	125.2	125.2	250	265	248	216	20	51	10	4-1/4-20UNC	4-1/4-20UNC	51	2.6
1"	91.2	109.1	109.1	127	127	250	272	255	223	25	51	10	4-1/4-20UNC	4-1/4-20UNC	51	3.0
1-1/2"	117.1	134.1	134.1	151	151	500	323	306	263	38	102	17	4-3/8-16UNC	4-3/8-16UNC	94	10.0
2"	132	147	147	162	162	500	329	312	269	50	102	17	4-3/8-16UNC	4-3/8-16UNC	94	14.4



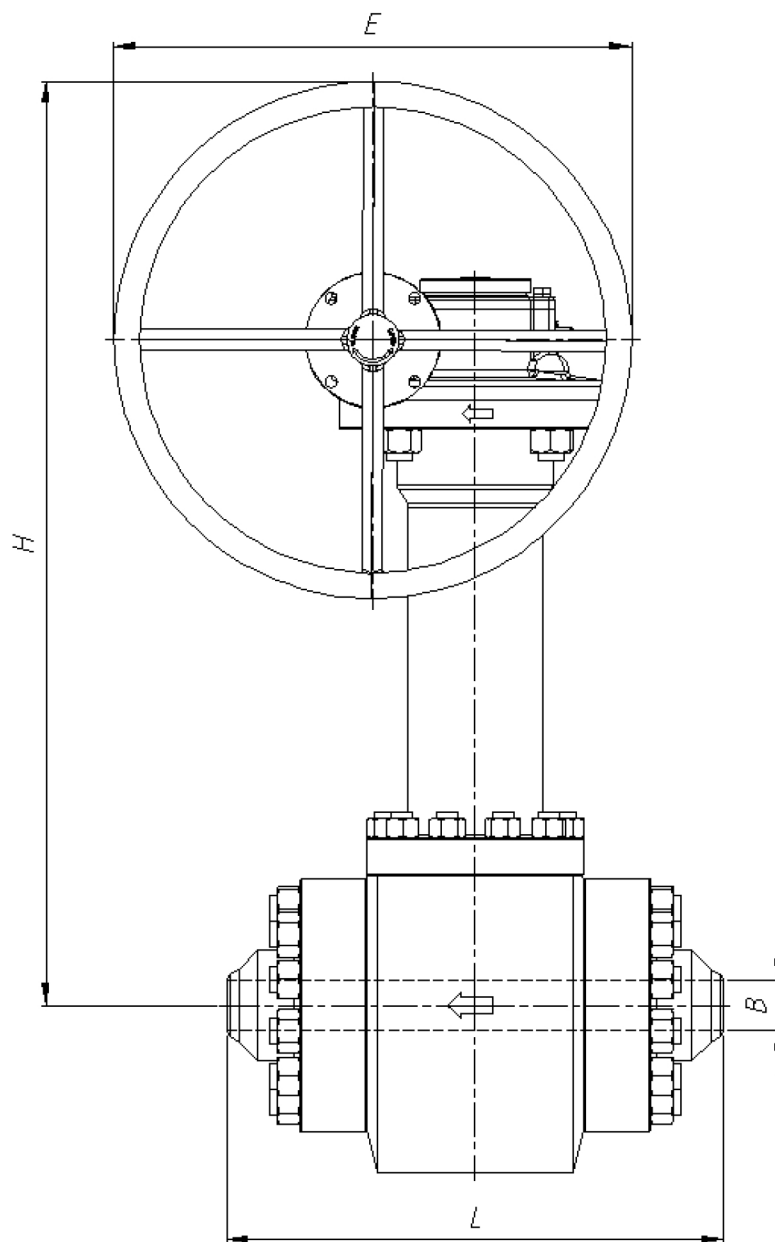
Seat to ball seal view



Stem seal view



Item	Part Description	Material
1	Body	A182 F316
2	End adapter	A182 F316
3	Ball	17-4PH
4	Seat housing	A182 F316
4A	Seat housing	A182 F316
5	Seat	PCTFE
6	Seat lipseal	PTFE + Elgiloy spring
7	Seat disc spring	Inconel X-750
8	Stem	17-4PH
9	Key	17-4PH
10	Stem key pin	SS 316
11	Stem packing	Braided flexible graphite + Graphite / V shaped Teflon stem packing rings
12	Packing ring	SS 316
13	Spacer ring	SS 316
14	Stem lipseal	PTFE + Elgiloy spring
15	Thrust washer (split)	PMT 316
16	Gland ring	SS 316
17	O-ring	FKM LT AED, 85-90 sh.A
18	Packing plate	SS 316
19	Disc spring	Inconel X-750
20	Packing plate capscrew	A320 Gr. B8(2)
21	Top stem flange capscrew	A320 Gr. B8(2)
22	Weather seal	HNBR LT, shore 75
23	Lower stem flange	A182 F316
24	Upper stem flange	A182 F316
25	Body/end adapter studs	A320 Gr. B8(2)
26	Body/end adapter nuts	A194 Gr. 8
27	Body/Lower stem flange studs	A320 Gr. B8(2)
28	Body/Lower stem flange nuts	A194 Gr. 8
29	Body lipseal	PTFE + Elgiloy spring
30	Body fire-safe seal	Spiral wound gasket 316 + graphite
31	Stem flange lipseal	PTFE + Elgiloy spring
32	Stem flange fire-safe seal	Spiral wound gasket 316 + graphite
33	Stem sleeve bearing	PMT 316
34	Stem antistatic ball	SS 316
35	Stem antistatic piston	SS 316
36	Stem flange/gearbox studs	A320 Gr. B8(2)
37	Stem flange/gearbox nuts	A194 Gr. 8
38	Gearbox with handwheel (lockable)	GGG 40/GG25



ANSI 2500

Valve Size	Port Size				Weight	CV
NPS	B	L	H	E		
inch	mm	mm	mm	mm	kg	
1/2"	13.0	308.0	417.5	300	76.0	15
3/4"	20.0	308.0	417.5	300	80.0	43
1"	25.0	308.0	417.5	300	83.0	75

For larger sizes, consult factory.

