

Metal seated floating ball design valve (Trim 6H)

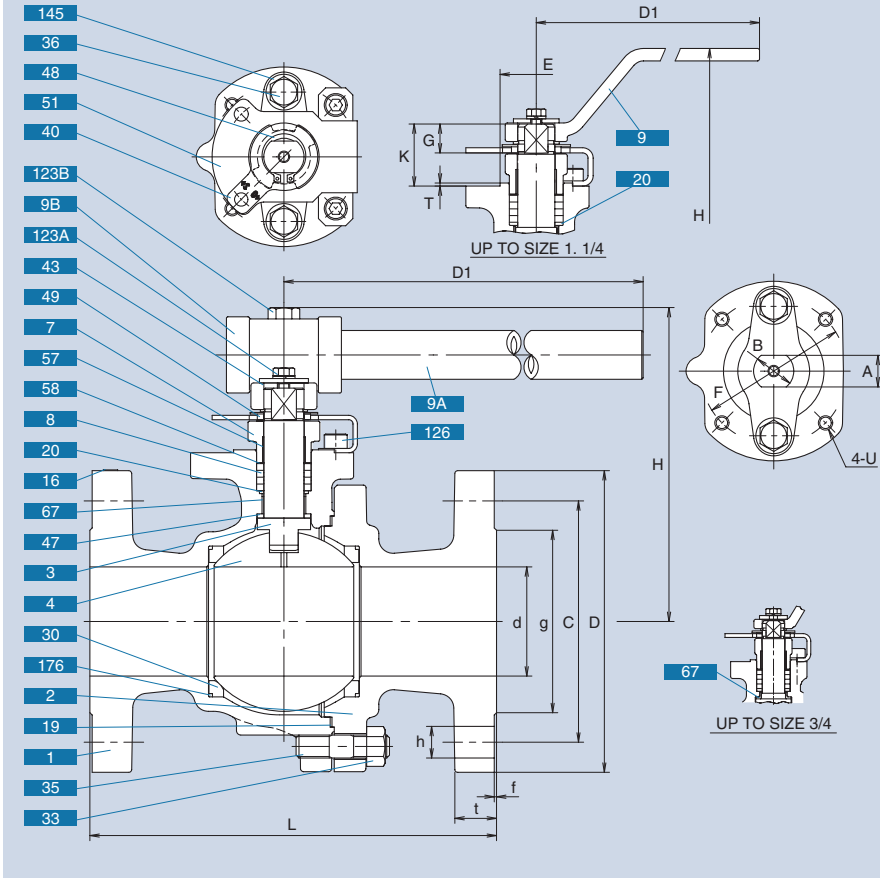
300UTDZ 6HM, 300SCTDZ 6HM

Construction and Materials

No.	Parts	Stainless steel shell	Carbon steel shell
		300UTDZ 6HM	300SCTDZ 6HM
1	Body	A351 Gr.CF8M	A216 Gr.WCB
2	Body cap	A351 Gr.CF8M	A216 Gr.WCB
3	Stem	A564 Type 630	
4	Ball	A276 Type 316 with Ni-Cr alloy hard facing*2	
7	Gland	A351 Gr.CF8	
8	Gland packing	Flexible graphite	
9	Handle*1	Ductile iron	
9A	Handle bar*1	Carbon steel	
9B	Handle head*1	Ductile iron	
16	Name plate	A276 Type 304	
19	Gasket	Flexible graphite	
20	Packing washer	A276 Type 316L	
30	Ball seat	A276 Type 316 with Ni-Cr alloy hard facing*2	
33	Cap nut	A194 Gr.8M	A194 Gr.2HM
35	Cap bolt	A193 Gr.B8M	A193 Gr.B7M
36	Gland bolt	Stainless steel	
40	Keylock plate	A276 Type 304	
43	Handle-lock plate	A276 Type 304	
47	Thrust washer	Carbon	
48	Snap ring	A276 Type 304	
49	Stopper	A276 Type 304	
51	Stopper plate	A276 Type 304	
57	Gland bush	Carbon	
58	Gland washer	A276 Type 304	
67	Stem bearing	Carbon	
123A	Handle-lock plate bolt	Stainless steel	
123B	Handle bolt	Stainless steel	
126	Stopper plate bolt	Stainless steel	
145	Coned disc springs	Inconel® 718 or Equivalent	
176	Seat packing	Flexible graphite	

*1) Refer to the following table *2) Equivalent to METCO Type 16C

Operation (Standard)	Class 300
Lever type	Size 1/2 to 1 1/4
Bar type	Size 11/2 to 3
Gear	Size 4 to 8



Dimensions:300UTDZ 6HM, 300SCTDZ 6HM

Unit: inch

Nominal size	d	H	D1	L	End flange							Mounting Dimension for Actuator										APPROX. MASS (lb)
					D	Bolt hole			Bolt size	g	t	f	A	B	E	F	G	K	T	U	ISO5211 Flange Type	
						C	NO.	h														
1/2	0.55	4.25	5.12	5.50	3.75	2.62	4	0.62	1/2	1.38	0.56	0.06	0.36	0.47	0.99	1.42	0.35	0.87	0.44	M5	F03	6.61
3/4	0.75	4.37	5.12	6.00	4.62	3.25	4	0.75	5/8	1.69	0.62	0.06	0.36	0.47	0.99	1.42	0.35	0.87	0.44	M5	F03	9.92
1	0.95	4.88	6.30	6.50	4.88	3.50	4	0.75	5/8	2.00	0.69	0.06	0.55	0.71	1.38	1.97	0.55	1.18	0.06	M6	F05	15.87
1.1/4*	1.26	5.04	6.30	7.00	5.25	3.88	4	0.75	5/8	2.50	0.75	0.06	0.55	0.71	1.38	1.97	0.55	1.18	0.06	M6	F05	24.25
1.1/2	1.50	5.47	23.62	7.50	6.14	4.50	4	0.88	3/4	2.88	0.81	0.06	0.67	0.87	2.17	2.76	0.67	1.34	0.06	M8	F07	34.17
2	1.97	5.83	23.62	8.50	6.50	5.00	8	0.75	5/8	3.62	0.88	0.06	0.67	0.87	2.17	2.76	0.67	1.34	0.06	M8	F07	46.52
2.1/2	2.52	8.23	39.37	9.50	7.50	5.88	8	0.88	3/4	4.12	1.00	0.06	0.87	1.10	2.76	4.02	0.87	1.77	0.08	M10	F10	66.14
3	3.00	8.62	39.37	11.12	8.25	6.62	8	0.88	3/4	5.00	1.12	0.06	0.87	1.10	2.76	4.02	0.87	1.77	0.08	M10	F10	83.78

* 300UTDZ 6H only.

Dimensions:300UTDZ 6HM, 300SCTDZ 6HM

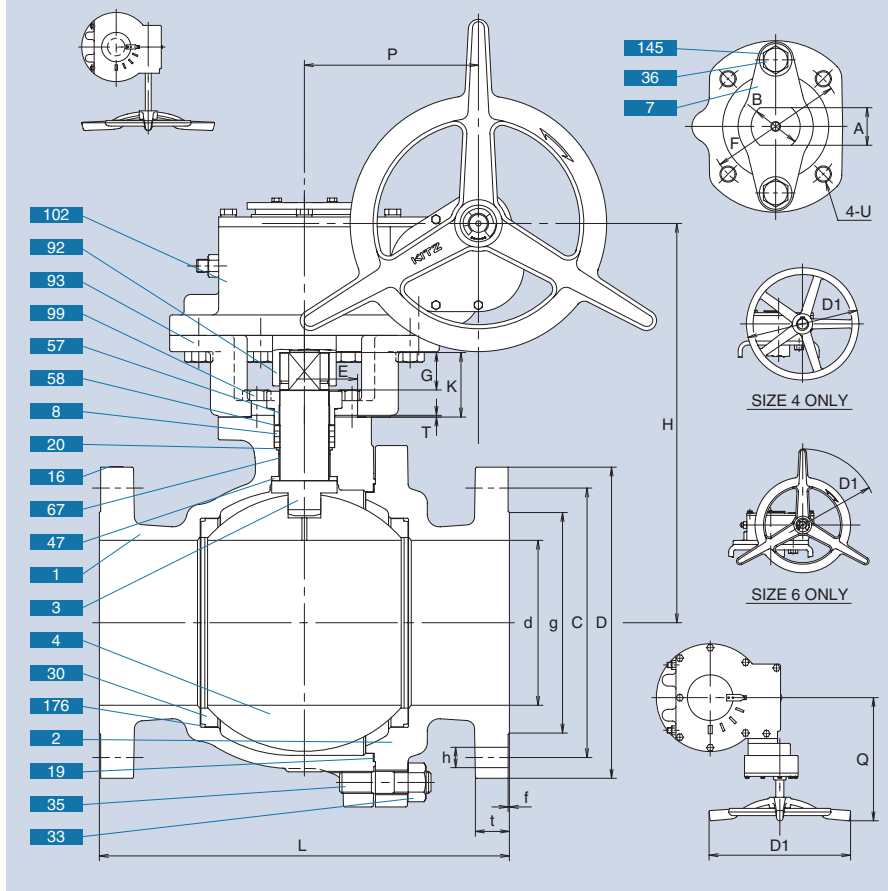
Unit: mm

Nominal size	d	H	D1	L	End flange							Mounting Dimension for Actuator										APPROX. MASS (kg)
					D	Bolt hole			Bolt size	g	t	f	A	B	E	F	G	K	T	U	ISO5211 Flange Type	
						C	NO.	h														
15	14	108	130	140	95	66.5	4	16	1/2	35	14.3	1.6	9	12	25	36	9	22	1	M5	F03	3.0
20	19	111	130	152	117	85.5	4	19	5/8	43	15.9	1.6	9	12	25	36	9	22	1	M5	F03	4.5
25	24	124	160	165	124	89.0	4	19	5/8	51	17.5	1.6	14	18	35	50	14	30	1.5	M6	F05	7.2
32	32	128	160	178	133	98.5	4	19	5/8	64	19.4	1.6	14	18	35	50	14	30	1.5	M6	F05	11.0
40	38	139	600	190	156	114.5	4	22	3/4	73	20.7	1.6	17	22	55	70	17	34	1.5	M8	F07	15.5
50	50	148	600	216	165	127.0	8	19	5/8	92	22.3	1.6	17	22	55	70	17	34	1.5	M8	F07	21.1
65	64	209	1000	241	190	149.0	8	22	3/4	105	25.4	1.6	22	28	70	102	22	45	2	M10	F10	30.0
80	76	219	1000	283	210	168.0	8	22	3/4	127	28.6	1.6	22	28	70	102	22	45	2	M10	F10	38.0

* 300UTDZ 6H only.

Metal seated floating ball design valve (Trim 6H)

G-300UTDZ 6HM, G-300SCTDZ 6HM



Construction and Materials

No.	Parts	Stainless steel shell	Carbon steel shell
		G-300UTDZ 6HM	G-300SCTDZ 6HM
1	Body	A351 Gr.CF8M	A216 Gr.WCB
2	Body cap	A351 Gr.CF8M	A216 Gr.WCB
3	Stem	A564 Type 630	
4	Ball	A276 Type 316 with Ni-Cr alloy hard facing*1	
7	Gland	A351 Gr.CF8	
8	Gland packing	Flexible graphite	
16	Name plate	A276 Type 304	
19	Gasket	Flexible graphite	
20	Packing washer	A276 Type 316L	
30	Ball seat	A276 Type 316 with Ni-Cr alloy hard facing*1	
33	Cap nut	A194 Gr.8M	A194 Gr.2HM
35	Cap bolt	A193 Gr.B8M	A193 Gr.B7M
36	Gland bolt	Stainless steel	
47	Thrust washer	Carbon	
57	Gland bush	Carbon	
58	Gland washer	A276 Type 304	
67	Stem bearing	Carbon	
92	Connector	Carbon Steel	
93	Bracket	Ductile Iron	
99	Bolt	Stainless Steel	
102	Gear unit		
124	Spring & pin	A313 & A276 Type 316	
126	Stopper plate bolt	Stainless steel	
145	Coned disc springs	Inconel® 718 or Equivalent	
176	Seat packing	Flexible graphite	

*1) Equivalent to METCO Type 16C

Dimensions:G-300UTDZ 6HM, G-300SCTDZ 6HM

Unit: inch

Nominal size	d	H	D1	L	End flange								Mounting Dimension for Actuator										APPROX. MASS (lb)	
					D	Bolt hole			Bolt size	g	t	f	P	Q	A	B	E	F	G	K	T	U		ISO5211 Flange Type
in.						C	NO.	h																
4	3.94	11.26	14.17	12.00	10.00	7.88	8	0.88	3/4	6.19	1.25	0.06	3.48	8.27	1.06	1.42	3.35	4.92	1.06	2.05	0.08	M12	F12	209.44
5	4.84	11.77	19.69	15.00	11.00	9.25	8	0.88	3/4	7.31	1.38	0.06	3.48	8.27	1.06	1.42	3.35	4.92	1.06	2.05	0.08	M12	F12	275.58
6	5.95	14.17	19.69	15.88	12.50	10.62	12	0.88	3/4	8.50	1.44	0.06	5.28	14.84	1.42	1.89	3.94	5.51	1.42	2.48	0.08	M16	F14	388.02
8	7.95	19.25	19.69	19.75	15.00	13.00	12	1.00	7/8	10.62	1.62	0.06	8.39	14.84	1.81	2.36	5.12	6.50	1.81	3.11	0.08	M20	F16	643.75

Dimensions:G-300UTDZ 6HM, G-300SCTDZ 6HM

Unit: mm

Nominal size	d	H	D1	L	End flange								Mounting Dimension for Actuator										APPROX. MASS (kg)	
					D	Bolt hole			Bolt size	g	t	f	P	Q	A	B	E	F	G	K	T	U		ISO5211 Flange Type
mm						C	NO.	h																
100	100	286	360	305	254	200	8	22	3/4	157	31.8	1.6	88.5	210	27	36	85	125	27	52	2	M12	F12	95
125	123	299	500	381	279	235	8	22	3/4	186	35.0	1.6	88.5	210	27	36	85	125	27	52	2	M12	F12	125
150	151	360	500	403	318	270	12	22	3/4	216	36.6	1.6	134.0	377	36	48	100	140	36	63	2	M16	F14	176
200	202	489	500	502	381	330	12	25	7/8	270	41.3	1.6	213.0	377	46	60	130	165	46	79	2	M20	F16	292