

Howell Flanged **FIRESAFE** Ball Valve


 Easy to Actuate

SPECIFICATIONS:

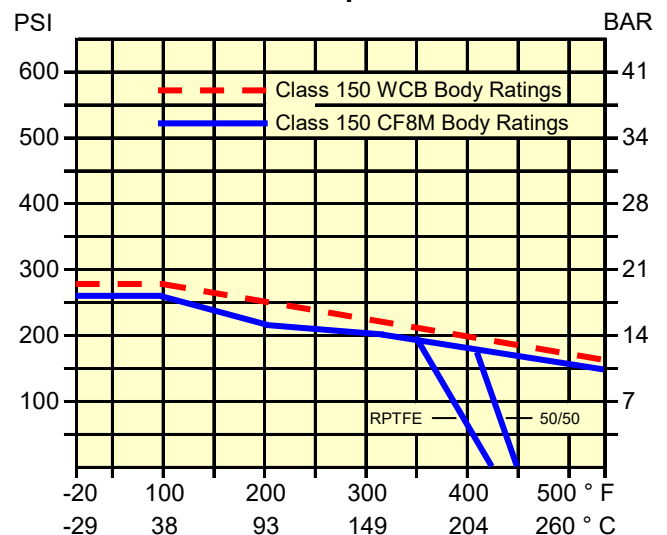
- Available in Carbon Steel and Stainless Steel
- Full Port Design
- Flanged, Two Piece Body
- Class 150 and Class 300
- Blowout Proof Stem for Safety
- ISO 5211 Direct Mounting Pad
- Anti-Static Device
- Live Loaded Stem Design for High Cycle Life
- Ball has vented hole in stem slot to equalize pressure in the body cavity
- Silicone Free
- Material Traceability
- Size Range: ½” to 10”

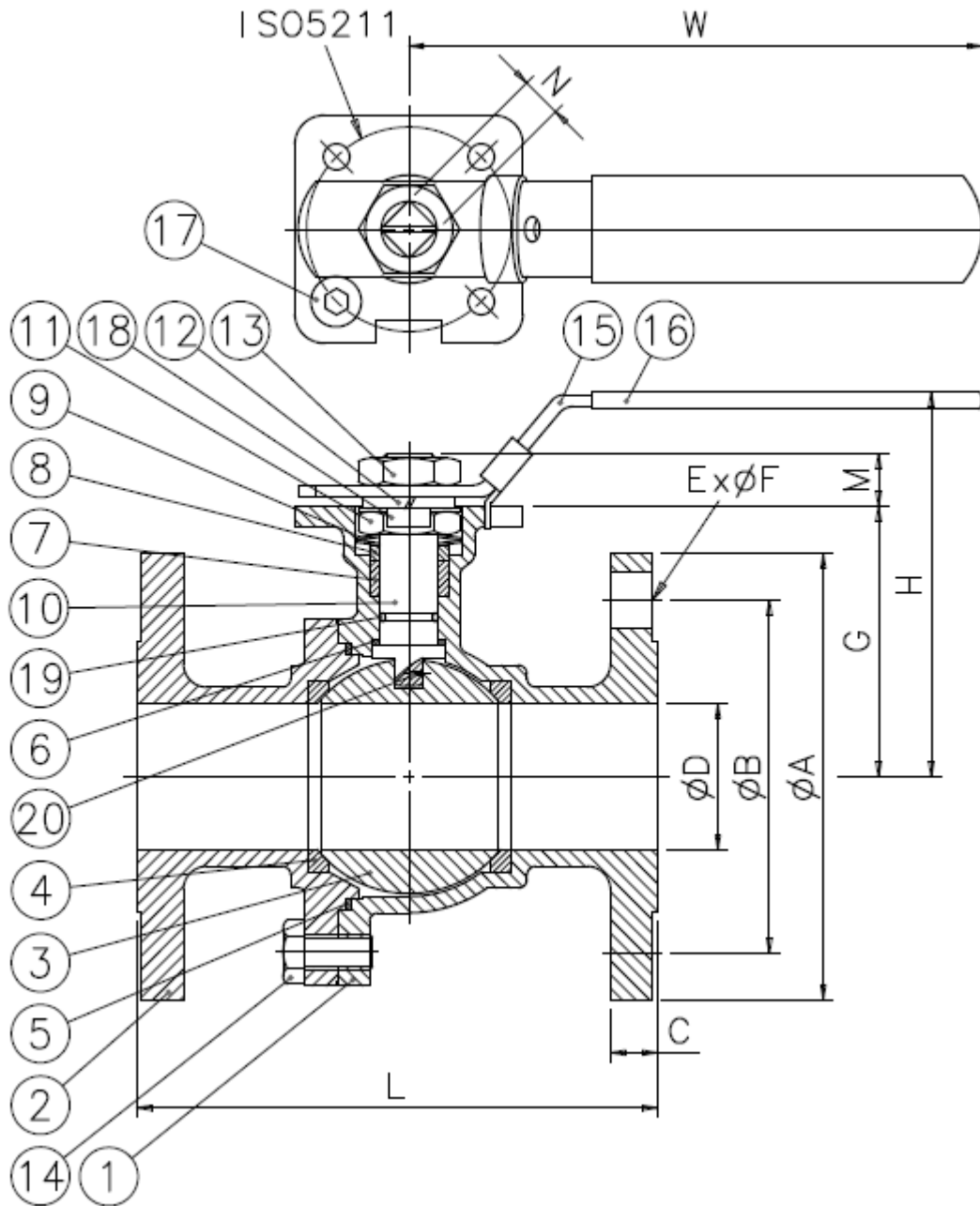


STANDARDS:

CRN Registered
 Design – ANSI / ASME B16.34
 Face to Face – ANSI / ASME B16.10
 Flange Dimensions – ANSI / ASME B16.5
 FIRESAFE – API 607 5th Edition
 NACE – MR0175
 EN1024 – DIN 50-049-3.1B
 CE Approved for Europe
 Valve Testing – API 598, MSS SP 61

Pressure & Temperature Chart





DIMENSIONS:

SIZE	∅ D		∅ A		∅ B		C		E	∅ F		G		H		L		M	N	W		ISO5211 (F)
	IN	MM	IN	MM	IN	MM	IN	MM		IN	MM	IN	MM	IN	MM	IN	MM			IN	MM	
1/2"	0.50	15	3.50	89	2.38	60	0.44	11	4	0.62	16	1.77	45	3.23	82	4.25	108	9	9	5.31	135	F03-F04
3/4"	0.75	20	3.88	99	2.75	70	0.44	11	4	0.62	16	1.97	50	3.46	88	4.62	117	9	9	5.31	135	F03-F04
1"	1.00	25	4.25	108	3.12	79	0.44	11	4	0.62	16	2.17	55	3.62	92	5.00	127	12	11	6.50	165	F04-F05
1-1/2"	1.50	40	5.00	127	3.88	99	0.56	14	4	0.62	16	2.83	72	4.41	112	6.50	165	16	14	7.68	195	F05-F07
2"	2.00	50	6.00	152	4.75	121	0.62	16	4	0.75	19	3.62	92	5.20	132	7.00	178	16	14	7.68	195	F05-F07
2-1/2"	2.50	65	7.00	178	5.50	140	0.69	18	4	0.75	19	4.13	105	5.98	152	7.50	191	19	17	11.81	300	F07-F10
3"	3.00	80	7.50	191	6.00	152	0.75	19	4	0.75	19	4.57	116	6.46	164	8.00	203	19	17	11.81	300	F07-F10
4"	4.00	100	9.00	229	7.50	191	0.94	24	8	0.75	19	5.43	138	7.64	194	9.00	229	24	22	13.19	335	F10-F12

MATERIALS LIST:

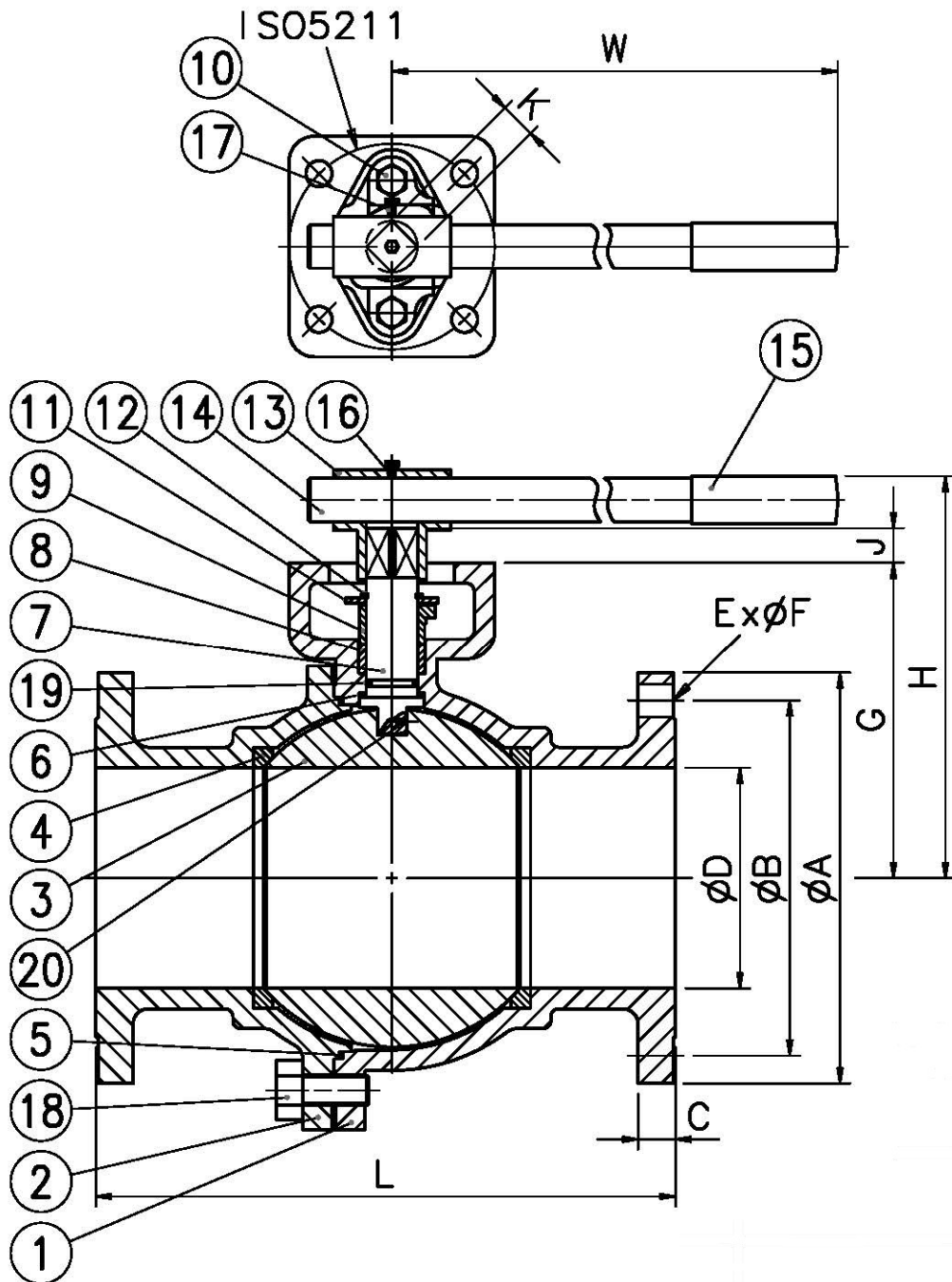
Item	Part	For Stainless Steel Valve	For Carbon Steel Valve	Quantity
1	Body	ASTMA351 CF8M	ASTMA216 WCB	1
2	End Cap	ASTMA351 CF8M	ASTMA216 WCB	1
3	Ball	ASTMA351 CF8M/316	ASTMA351 CF8M/316	1
*4	Seat	RPTFE	RPTFE	2
*5	Body Gasket	PTFE / Graphite	PTFE / Graphite	1
*6	Thrust Washer	PTFE / Graphite	PTFE / Graphite	1
*7	Stem Packing	Graphite	Graphite	1
8	Gland Bushing	304 SS	304 SS	1
9	Belleville Washer	301 SS	301 SS	2
10	Stem	ASTMA276 316	ASTMA276 316	1
11	Packing Nut	304 SS	304 SS	1
12	Spring Washer	304 SS	304 SS	1
13	Handle Nut	304 SS	304 SS	1
14	Body Bolts	ASTMA193 B8	ASTMA193 B7	4-8
15	Handle	304 SS	Zinc Plated Steel	1
16	Handle Sleeve	Vinyl	Vinyl	1
17	Stop Pin	304 SS	304 SS	1
* 18	Lock Saddle	304 SS	304 SS	1
19	Stem O-Ring	Viton	Viton	1
20	Anti-Static Device	316 SS	316 SS	1

* included in repair kit

Break Away Torques		Estimated Cv Values		150lb Valve Weights		
Size	(in/lbs)	Size	Cv Value	Size	(KG)	(LB)
1/2"	89	1/2"	11	1/2"	1.6	3.5
3/4"	106	3/4"	21	3/4"	2.0	4.4
1"	142	1"	35	1"	3.1	6.8
1-1/2"	239	1-1/2"	80	1-1/2"	5.8	12.8
2"	363	2"	150	2"	8.3	18.3
2-1/2"	602	2-1/2"	265	2-1/2"	14.0	30.9
3"	814	3"	415	3"	18.2	40.1
4"	1,195	4"	780	4"	29.7	65.5

Packing Nut Torque (in/lbs)

Size	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"
Packing Nut Torque	177	177	221	354	354	443	443	531



DIMENSIONS:

SIZE	ϕD		ϕA		ϕB		C		E	ϕF		G		H		L		J	K	W		ISO5211
	IN	MM	IN	MM	IN	MM	IN	MM		IN	MM	IN	MM	IN	MM	IN	MM	MM	MM	IN	MM	(F)
6"	6.00	150	11.00	279	9.50	241	1.00	25	8	0.87	22	8.58	218	10.94	278	15.51	394	28	27	22.83	580	F12-F14

Size 6"
MATERIALS LIST:

Item 6"	Part	For Stainless Steel Valve	For Carbon Steel Valve	Quantity
1	Body	ASTMA351 CF8M	ASTMA216 WCB	1
2	End Cap	ASTMA351 CF8M	ASTMA216 WCB	1
3	Ball	ASTMA351 CF8M/316	ASTMA351 CF8M/316	1
*4	Seat	RPTFE	RPTFE	2
*5	Body Gasket	PTFE / Graphite	PTFE / Graphite	1
*6	Thrust Washer	PTFE / Graphite	PTFE / Graphite	1
7	Stem	ASTMA276 316	ASTMA276 316	1
*8	Stem Packing	Graphite	Graphite	4
9	Gland Bushing	ASTMA351 CF8M	ASTMA216 WCB	1
10	Gland Bolts	304 SS	Carbon Steel	2
* 11	Lock Saddle	304 SS	304 SS	1
12	Stem Retaining Ring	304 SS	AISI SWP	1
13	Handle Head	ASTMA351 CF8	ASTMA216 WCB	1
14	Handle	304 SS	Carbon Steel	1
15	Handle Sleeve	Vinyl	Vinyl	1
16	Handle Screw	304 SS	Carbon Steel	1
17	Handle Stem Screw	304 SS	Carbon Steel	1
18	Body Bolts	ASTMA193 B8	ASTMA193 B7	8
19	Stem O-Ring	Viton	Viton	1
20	Anti-Static Device	316 SS	316 SS	1

* included in repair kit

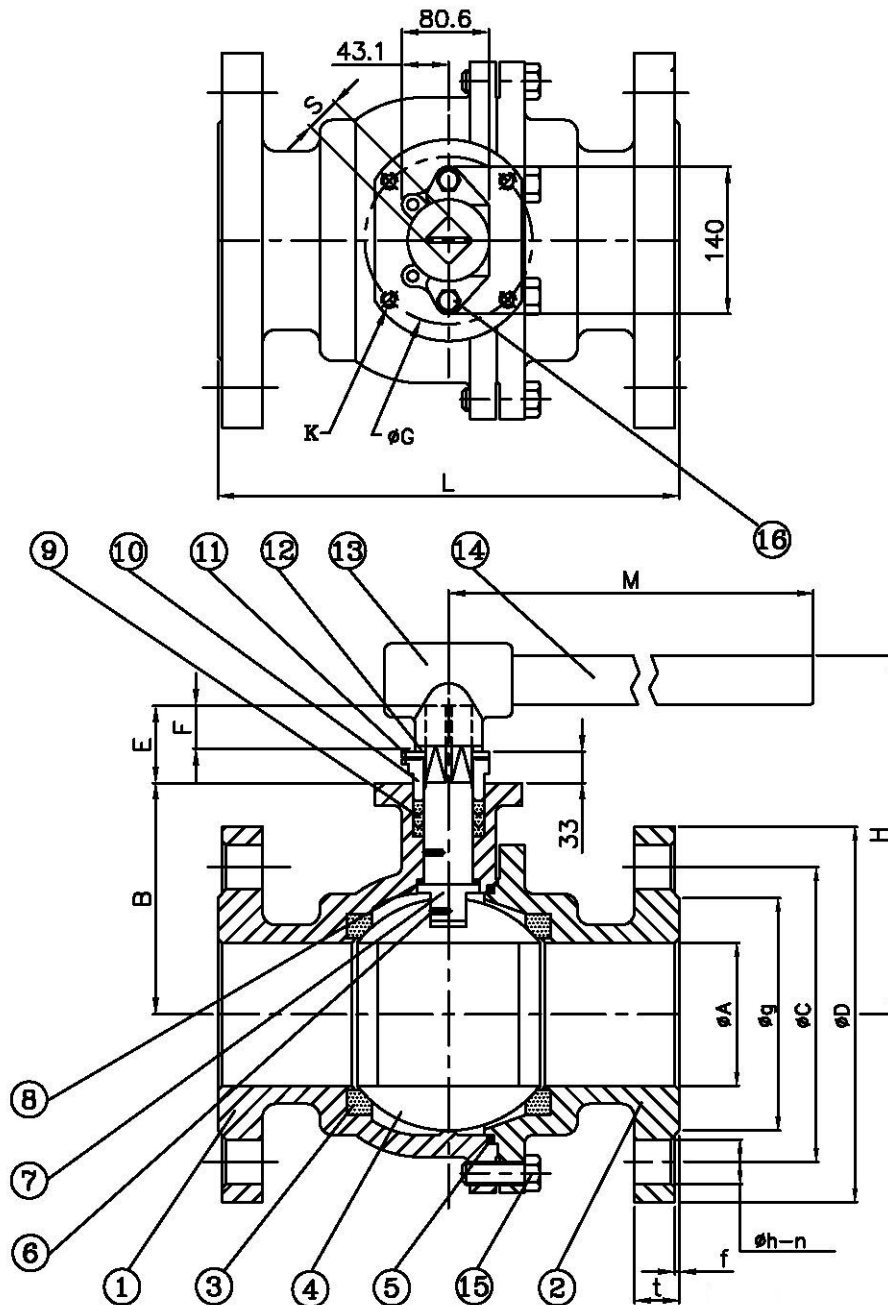
Size 8" & 10"
MATERIALS LIST:

Item	Part	For Stainless Steel Valve	For Carbon Steel Valve	Quantity
1	Body	ASTMA351 CF8M	ASTMA216 WCB	1
2	End Cap	ASTMA351 CF8M	ASTMA216 WCB	1
*3	Seat	RPTFE	RPTFE	2
4	Ball	ASTMA351 CF8M/316	ASTMA351 CF8M/316	1
*5	Body Gasket	Graphite	Graphite	1
6	Anti-Static Device	316 SS	316 SS	1
7	Stem	ASTMA276 316	ASTMA276 316	1
*8	Thrust Washer	RPTFE	RPTFE	1
*9	Stem Packing	Graphite	Graphite	4
10	Gland Bushing	CF8	CF8	1
11	Stop Pin	304 SS	304 SS	1
12	Stop PLATE	304 SS	304 SS	1
13	Handle Head	FCD45	FCD45	1
14	Handle	Carbon Steel	Carbon Steel	1
15	Body Bolts	304 SS	304 SS	8
16	Gland Bolts	304 SS	304 SS	2

* included in repair kit

Break Away Torques		Estimated Cv Values		150lb Valve Weights	
6"	1,593	6"	5,400	6"	68.0 149.9
8"	6,965	8"	10,000	8"	126.0 277.8
10"	8,231	10"	15,000	10"	158.0 348.4

Size 8" & 10"



DIMENSIONS:

SIZE	∅ A		B		E		F		H		M		L		∅ G		K	S
IN	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM		
8"	8.00	200	8.62	219	2.52	64	1.50	38	13.94	354	43.31	1100	17.99	457	4.92	125	M12	36
10"	10.00	250	10.04	255	2.52	64	1.50	38	15.35	390	47.24	1200	20.98	533	4.92	125	M12	36

SIZE	∅ D		∅ C		∅ g		∅ h-n		f	t
IN	IN	MM	IN	MM	IN	MM	n	MM	MM	MM
8"	13.50	343	11.75	299	10.63	270	8	22	1.6	29
10"	15.98	406	14.25	362	12.76	324	12	25	1.6	30

