

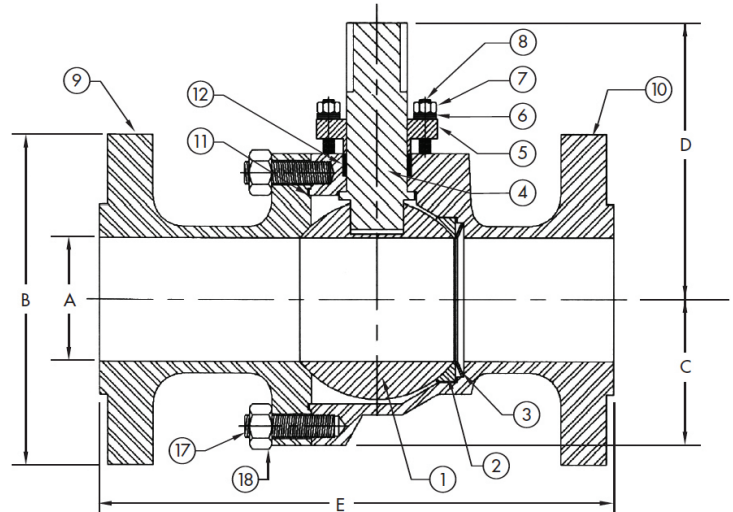


## Flanged Ball Valves ASME/ANSI 150-600 1/2" - 36"

### BILLS OF MATERIAL

ITEM	DESCRIPTION	CARBON STEEL STD. TRIM		316 STAINLESS STEEL STD. TRIM		QTY.
		MATERIAL	MATERIAL	MATERIAL	MATERIAL	
1	BALL	4130/RAM31	316 S.S./RAM31			1
2	UPSTREAM SEAT	4130/H.F.	A182-F316/H.F.			1
3	BELLEVILLE SPRING	17-4ph	17-4ph			1
4	STEM	4130/H.F.	316 S.S./H.F.			1
5	GLAND	4130/H.F.	316 S.S./H.F.			1
6	GLAND LOAD SPRING	302 S.S.	302 S.S.			24
7	GLAND NUT	A194 Gr. 8M	A194 Gr. 8M			4
8	GLAND STUD	A194 Gr. B8M	A193 Gr. B8M			4
9	END CAP	A216-WCB/RAM31	A351 GR CF8M/RAM31			1
10	BODY	A216-WCB	A351 GR CF8M			1
11	BODY GASKET	*GRAFOIL	*GRAFOIL			1
12	GLAND PACKING	GRAFOIL/316 S.S.	GRAFOIL/316 S.S.			3
17	BODY STUD	A193 Gr. B7	A193 Gr. B8M			8
18	BODY NUT	A194 Gr. 2H	A194 Gr. 8M			8

\* For ball sizes below 3", the body gasket is a pressure seal metal gasket.  
 \*\* V3 = 150#, V5 = 300#, V6 = 600#    RP = Reduced Port; FP = Full Port



### FULL PORT DIMENSIONS (ANSI 150/300/600)

SIZE	A			B			C			D			E(RF)			STEM DIA ALL CLASSES	APPROXIMATE WEIGHTS			Cv ALL CLASSES
	150	300	600	150	300	600	150	300	650	150	300	650	150	300	600		150	300	600	
1/2	0.63	0.63	0.63	3.50	3.75	3.75	1.25	1.25	1.25	2.00	2.00	2.00	4.25	5.50	6.50	0.50	8	10	14	42
3/4	0.63	0.63	0.63	3.88	4.62	4.62	1.25	1.25	1.25	2.00	2.00	2.00	4.62	6.00	7.50	0.50	9	12	19	28
1	1.06	1.06	1.06	4.25	4.88	4.88	1.88	1.88	1.88	2.90	2.90	2.90	5.00	6.50	8.50	0.75	14	19	25	130
1-1/2	1.50	1.50	1.50	5.00	6.12	6.12	1.88	1.88	1.88	2.90	2.90	2.90	6.50	7.50	9.50	0.75	17	22	30	270
2	2.13	2.13	2.13	6.00	6.50	6.50	3.38	3.38	3.38	5.00	5.00	5.00	7.00	8.50	11.50	1.00	28	31	40	570
3	3.06	3.06	3.06	7.50	8.25	8.25	4.00	4.00	4.00	7.25	7.25	7.25	8.00	11.12	14.00	1.50	95	110	195	1300
4	4.06	4.06	4.06	9.00	10.00	10.75	4.50	4.50	4.50	9.00	9.00	9.00	9.00	12.00	17.00	2.00	140	170	280	2500
6	6.06	6.06	6.06	11.00	12.50	14.00	6.00	6.00	6.50	12.80	12.80	12.80	15.50	15.88	22.00	2.50	410	450	670	5550
8	8.06	8.06	8.06	13.50	15.00	16.50	8.00	8.00	8.50	17.50	17.50	17.50	18.00	19.75	26.00	3.50	690	770	1050	10400
10	10.06	10.06	10.06	16.00	17.50	20.00	10.30	10.30	10.30	19.43	19.43	19.43	21.00	22.38	31.00	4.00	1060	1150	1840	16600
12	12.06	12.06	12.06	19.00	20.50	22.00	12.50	13.00	13.00	22.00	22.00	22.00	24.00	25.50	33.00	5.00	1840	1980	2650	24300
14	12.06	12.06	12.06	21.00	23.00	23.75	12.50	12.50	13.00	22.00	22.00	22.00	27.00	30.00	35.00	5.00	2180	2140	2910	18000
16	15.25	15.25	15.25	23.50	25.50	27.00	14.50	14.50	15.25	30.50	30.50	30.50	30.00	33.00	39.00	7.00	3350	3500	4800	39700

Note: Cv values are based upon Class 150 valves with a Sch. 40 Pipe ID. Consult factory for other configurations.

### REDUCED PORT DIMENSIONS (ANSI 150/300/600)

SIZE	A			B			C			D			E(RF)			STEM DIA ALL CLASSES	APPROXIMATE WEIGHTS				Cv
	150	300	600	150	300	600	150	300	650	150	300	650	150	300	600		150	300	600	150	
1	0.63	0.63	0.63	4.25	4.88	4.88	1.25	1.25	1.25	2.00	2.00	2.00	5.00	6.50	8.50	0.50	10	14	22	19	19
1-1/2	1.06	1.06	1.06	5.00	6.12	6.12	1.88	1.88	1.88	3.00	3.00	3.00	6.50	7.50	9.50	0.75	15	20	28	65	65
2	1.50	1.50	1.50	6.00	6.50	6.50	2.13	2.13	2.13	3.75	3.75	3.75	7.00	8.50	11.50	0.75	25	29	40	160	160
3	2.13	2.13	2.13	7.50	8.25	8.25	3.38	3.38	3.38	5.00	5.00	5.00	8.00	11.12	14.00	1.00	35	41	65	210	210
4	3.06	3.06	3.06	9.00	10.00	10.75	4.00	4.00	4.00	7.25	7.25	7.25	9.00	12.00	17.00	1.50	100	125	140	500	500
6	4.06	4.06	4.06	11.00	12.50	14.00	4.50	4.50	4.50	9.00	9.00	9.00	10.50	15.88	22.00	2.00	180	215	255	750	750
8	5.13	6.06	6.06	13.50	15.00	16.50	5.38	6.00	6.50	11.17	12.80	12.80	11.50	16.50	26.00	2.50	360	610	760	1150	2000
10	7.13	8.06	8.06	16.00	17.50	20.00	7.13	8.00	8.50	13.50	17.50	17.50	13.00	18.00	31.00	3.50*	480	1160	1490	2250	4000
12	8.06	10.06	10.06	19.00	20.50	22.00	8.00	10.30	10.30	19.43	19.43	19.43	14.00	19.75	33.00	4.00*	890	1790	2450	2800	7600
14	10.06	10.06	10.06	21.00	23.00	23.75	10.30	10.30	10.30	19.43	19.43	19.43	15.00	30.00	35.00	4.00	1410	2300	2950	5500	5500
16	10.06	12.06	12.06	23.50	25.50	27.00	10.30	12.50	13.00	22.00	22.00	22.00	16.00	33.00	39.00	5.00*	1740	2550	3300	4400	10900

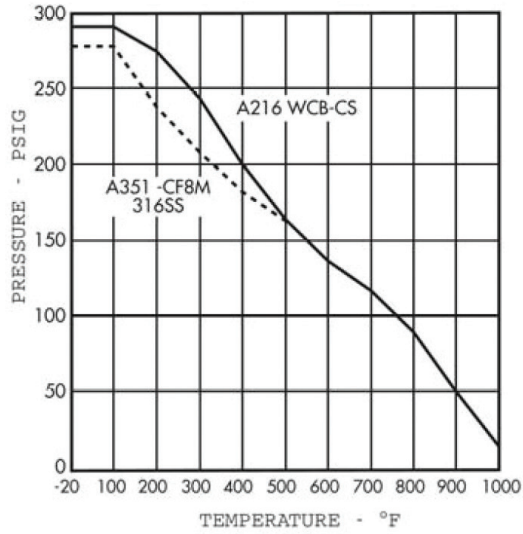
Note: Cv values are based upon a Sch. 40 Pipe ID. Consult factory for other configurations.

### AVAILABLE BODY OPTIONS:

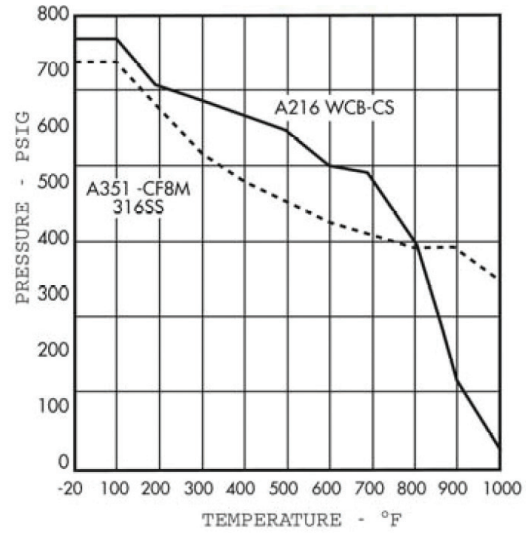
- Bi-directional sealing
- Control trim
- Special end connections
- Special hard coatings
- Various materials of construction
- Sizes up to 36"
- Elevated temperature options
- Wafer style
- Forged steel construction

# V1-2 PRESSURE – TEMPERATURE RATINGS

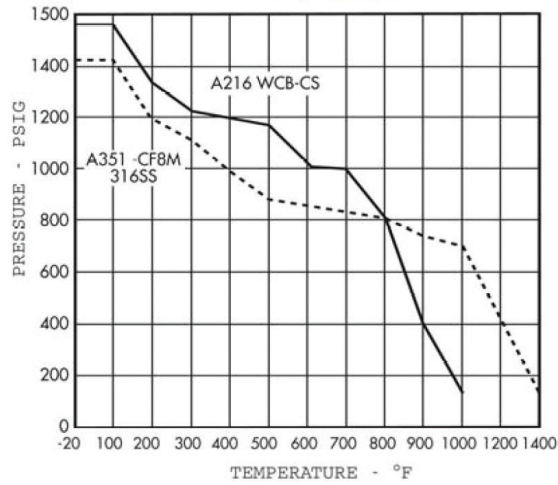
## ASME/ANSI 150



## ASME/ANSI 300



## ASME/ANSI 600



Pressure-temperature ratings are in accordance with ASME/ANSI B16.34 - 2013

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