

## PRIMARY VALVE STANDARDS

### A105 / A216 WCB / A350 LF2 / A350 LF3

Class	Cold Working Pressure (CWP)		Body Test Pressure (x 1.5)		Seat Test Pressure (x 1.1)	
	(psi)	(MPa)	(psi)	(MPa)	(psi)	(MPa)
150	285	1.96	427.5	2.95	313.5	2.16
300	740	5.10	1110	7.65	814	5.61
600	1480	10.20	2220	15.30	1628	11.22
800	1975	13.61	2962.5	20.41	2172.5	14.97
900	2220	15.30	3330	22.94	2442	16.83
1500	3705	25.53	5557.5	38.29	4075.5	28.08
2500	6170	42.51	9255	63.77	6787	46.76
Air Test					80	0.55

### A216 WCC / A217 WC6 / A217 WC9

Class	Cold Working Pressure (CWP)		Body Test Pressure (x 1.5)		Seat Test Pressure (x 1.1)	
	(psi)	(MPa)	(psi)	(MPa)	(psi)	(MPa)
150	290	2.00	435	3.00	319	2.20
300	750	5.17	1125	7.75	825	5.68
600	1500	10.34	2250	15.50	1650	11.37
800	-	-	-	-	-	-
900	2250	15.50	3375	23.25	2745	17.05
1500	3750	25.84	5625	38.76	4125	28.42
2500	6250	43.06	9375	64.59	6875	47.37
Air Test					80	0.55

### A240 t304 / A240 t316 / A351 CF8 / A351 CF8C / A351 CF8M

Class	Cold Working Pressure (CWP)		Body Test Pressure (x 1.5)		Seat Test Pressure (x 1.1)	
	(psi)	(MPa)	(psi)	(MPa)	(psi)	(MPa)
150	275	1.89	412.5	2.84	302.5	2.08
300	720	4.96	1080	7.44	792	5.46
600	1440	9.92	2160	14.88	1584	10.91
800	1920	13.23	2880	19.84	2112	14.55
900	2160	14.88	3240	22.32	2376	16.37
1500	3600	24.80	5400	37.21	3960	27.28
2500	6000	41.34	9000	62.01	6600	45.47
Air Test					80	0.55

### A240 t304L / A240 t316L / A351 CN7M (Alloy 20)

Class	Cold Working Pressure (CWP)		Body Test Pressure (x 1.5)		Seat Test Pressure (x 1.1)	
	(psi)	(MPa)	(psi)	(MPa)	(psi)	(MPa)
150	230	1.58	345	2.38	253	1.74
300	600	4.13	900	6.20	660	4.55
600	1200	8.27	1800	12.40	1320	9.09
800	1600	11.02	2400	16.54	1760	12.13
900	1800	12.40	2700	18.60	1980	13.64
1500	3000	20.67	4500	31.01	3300	22.74
2500	5000	34.45	7500	51.68	5500	37.90
Air Test					80	0.55

### A352 LCB

Class	Cold Working Pressure (CWP)		Body Test Pressure (x 1.5)		Seat Test Pressure (x 1.1)	
	(psi)	(MPa)	(psi)	(MPa)	(psi)	(MPa)
150	265	1.83	397.5	2.74	291.5	2.01
300	695	4.79	1042.5	7.18	764.5	5.27
600	1395	9.61	2092.5	14.42	1534.5	10.57
800	1975	13.61	2962.5	20.41	2172.5	14.97
900	2090	14.40	3135	21.60	2299	15.84
1500	3480	23.98	5220	35.97	3828	26.37
2500	5805	40.00	8707.5	59.99	6385.5	44.00
Air Test					80	0.55

### A352 LCC

Class	Cold Working Pressure (CWP)		Body Test Pressure (x 1.5)		Seat Test Pressure (x 1.1)	
	(psi)	(MPa)	(psi)	(MPa)	(psi)	(MPa)
150	290	2.00	435	3.00	319	2.20
300	450	5.17	1125	7.75	825	5.68
600	1500	10.34	2250	15.50	1650	11.37
800	-	-	-	-	-	-
900	2250	15.50	3375	23.25	2475	17.05
1500	3750	25.84	5625	38.76	4125	28.42
2500	6250	43.06	9375	64.59	6875	47.37
Air Test					80	0.55

### A182 F5 / A182 F11 / A182 F22 / A182 F51 / A351 CE8MN

Class	Cold Working Pressure (CWP)		Body Test Pressure (x 1.5)		Seat Test Pressure (x 1.1)	
	(psi)	(MPa)	(psi)	(MPa)	(psi)	(MPa)
150	290	2.00	435	3.00	319	2.20
300	750	5.17	1125	7.75	825	5.68
600	1500	10.34	2250	15.50	1650	11.37
800	2000	13.78	3000	20.67	2200	15.16
900	2250	15.50	3375	23.25	2475	17.05
1500	3750	25.84	5625	38.76	4125	28.42
2500	6250	43.06	9375	64.59	6875	47.37
Air Test					80	0.55

### Cast Iron

Class	Cold Working Pressure (CWP)		Body Test Pressure (x 1.5)		Seat Test Pressure (x 1.1)	
	(psi)	(MPa)	(psi)	(MPa)	(psi)	(MPa)
Table E (14 bar)	200	1.38	300	2.07	220	1.52
Table E (16 bar)	232	1.60	348	2.40	255.2	1.76
PN10 (10 bar)	150	1.00	225	1.50	165	1.10
PN16 (16 bar)	232	1.60	348	2.40	255.2	1.76
Air Test					80	0.55

**NOTES:**

CWP shown as per ASME B16.34 - 2013. Test duration can be as per API 598 (ISO 5208) or API 6D (ISO 14313)