

HYDRAULIC AND PNEUMATIC TEST PRESSURE FOR VALVES OF VARIOUS PRESSURE RATINGS

PRESSURE RATING	BODY	SEAT	BACK SEAT	SEAT (AIR)
150LBS.	31 Kg/cm ²	22Kg/cm ²	22Kg/cm ²	6Kg/cm ²
300 LBS.	78Kg/cm ²	58Kg/cm ²	58Kg/cm ²	6Kg/cm ²
600 LBS.	156Kg/cm ²	115Kg/cm ²	115Kg/cm ²	6Kg/cm ²
800 LBS.	211 Kg/cm ²	141 Kg/cm ²	141 Kg/cm ²	6Kg/cm ²
900 LBS.	235Kg/cm ²	178Kg/cm ²	178Kg/cm ²	6Kg/cm ²
1500 LBS.	392Kg/cm ²	287 Kg/cm ²	287 Kg/cm ²	6Kg/cm ²
2500 LBS.	651 Kg/cm ²	478 Kg/cm ²	478 Kg/cm ²	6Kg/cm ²
PN-40(Kg/cm ²)	60Kg/cm ²	40Kg/cm ²	40Kg/cm ²	6Kg/cm ²
PN-64(Kg/cm ²)	96Kg/cm ²	64Kg/cm ²	64Kg/cm ²	6Kg/cm ²
PN-100(Kg/cm ²)	150Kg/cm ²	100Kg/cm ²	100Kg/cm ²	6Kg/cm ²
PN-250(Kg/cm ²)	375Kg/cm ²	250Kg/cm ²	250Kg/cm ²	6Kg/cm ²

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PRESSURE-TEMPERATURE RATING FOR VARIOUS ANSI STANDARD VALVES

Temperature	Maximum non Shock Service Pressure in Kg/cm ²										
		Series 150		Series 300		Series 600		Series 900		Series 1500	
°c	°F	Steel	SS316	Steel	SS316	Steel	SS316	Steel	SS316	Steel	SS316
-29 to 38	-20 to 100	20	19.3	52	50.6	104	101.2	156.3	152.1	260.9	253.5
66	150	19	17.9	49.6	47.1	99.1	94.2	149.2	100.5	249.2	235.5
93	200	18.3	16.9	47.5	43.6	94.9	87.2	142.6	130.9	237.6	217.9
121	250	17.2	15.8	46.7	41.5	93.5	83	140.4	124.6	234.1	207.3
149	300	16.2	15.1	46	39.4	92.4	78.7	138.7	118.3	230.9	196.8
177	350	15.1	14.4	45.3	37.6	90.7	75.6	136.2	113.3	227.1	188.7
204	400	14.1	13.7	44.6	36.2	89.3	72.4	133.8	108.4	223.2	180.9
232	450	13	12.7	43.2	34.8	86.8	69.6	129.9	104.5	216.9	174.6
260	500	12	12	42.2	33.7	84.4	67.1	126.4	101	210.9	168.3
288	550	10.9	10.9	40.4	32.7	80.5	65.4	120.7	98.2	201.7	163.3
316	600	9.8	9.8	38.7	31.6	77	63.6	115.4	95.4	192.6	158.8
343	650	8.8	8.8	37.6	31.3	75.6	62.6	113.3	93.6	189	156.3
371	700	7.7	7.7	37.6	30.2	74.9	60.8	112.6	91.1	187.6	152.1
399	750	6.7	6.7	35.5	29.9	71	59.4	106.3	89.4	177.4	148.5
427	800	5.6	5.6	28.8	29.2	58	58.3	86.9	87.6	145	146.1
454	850	4.4	4.6	19	28.5	37.6	56.9	56.6	85.5	94.3	142.9
468	875	3.9	3.9	15.5	28.1	30.9	56.2	46.4	84.1	77.4	140.8
482	900	3.5	3.5	12	27.8	24.3	55.5	36.2	83	60.5	138.7
496	925	2.8	2.8	9.5	27.4	19.3	54.8	28.8	82.3	48.2	137.3
510	950	2.5	2.5	7.4	27.1	14.4	54.5	21.8	81.6	36.2	135.9
524	975	1.8	1.8	5.3	26.4	10.9	52.7	16.1	79.2	27.1	132
538	1000	1.4	1.4	3.5	25.7	7.4	51	10.9	76.7	18.3	128.1