

## PRESSURE / TEMPERATURE RATING CHART

MINIMUM TEMPERATURE FOR ALL MATERIALS IS LIMITED, WITHIN SPECIFICATION, TO 0°C/32°F

**NOTE: THE PETER SMITH VALVE CO. LTD. RESTRICT THE USE OF CAST IRON VALVES TO 180°C TO ELIMINATE POSSIBLE MISUSE OF VALVES ON STEAM SERVICE.**

CAST IRON: BS 10 MAX PRESSURE/TEMPERATURE RATINGS						
Temp	°F	32/250	300	350	375	430
	°C	0/121	149	177	191	221
TABLE 'E'	PSI	200	150	150	150	100
	BAR	13.8	10.3	10.3	10.3	6.9
TABLE 'F'	PSI	300	200	200	200	190
	BAR	20.7	13.8	13.8	13.8	13.1

CAST STEEL: BS 10 MAX PRESSURE/TEMPERATURE RATINGS								
Temp	°F	32/450	500	550	600	650	700	750
	°C	0/232	260	288	316	343	371	399
TABLE 'E'	PSI	200	185	170	155	140	130	115
	BAR	13.8	12.8	11.7	10.7	9.7	9.0	7.9
TABLE 'F'	PSI	300	280	255	235	215	195	170
	BAR	20.7	19.3	17.6	16.2	14.8	13.4	11.7
TABLE 'H'	PSI	500	465	430	395	355	320	285
	BAR	34.5	32.1	29.6	27.2	24.5	22.1	19.6
TABLE 'J'	PSI	700	650	600	550	500	450	400
	BAR	48.3	44.8	41.4	37.9	34.5	31.0	27.6

GUNMETAL: BS 10 MAX PRESSURE/TEMPERATURE RATINGS									
Temp	°F	32/250	300	350	400	450	500		
	°C	0/248	149	177	204	232	260		
TABLE 'E'	3" BORE AND UNDER	PSI	200	200	200	165	130	100	
		BAR	13.8	13.8	13.8	11.4	9.0	6.9	
TABLE 'F'		PSI	300	300	300	245	195	150	
		BAR	20.7	20.7	20.7	16.9	13.4	10.3	
TABLE 'H'		PSI500	500	500	500	410	330	250	
		BAR	34.5	34.5	34.5	28.3	22.8	17.2	
TABLE 'E'		OVER 3" BORE	PSI	175	165	155	135	120	100
			BAR	12.1	11.4	10.7	9.3	8.3	6.9
TABLE 'F'	PSI		250	240	220	195	175	150	
	BAR		17.2	16.6	15.2	13.4	12.1	10.3	
TABLE 'H'	PSI		400	380	350	320	285	250	
	BAR		27.6	26.2	24.1	22.1	19.7	17.2	

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