

ANSI Pressure Class to PSI Conversion Chart

Carbon and Stainless Steel Valves

Pipes | Wrought Fittings | Forgings | Castings

ANSI CLASS	150	300	400	600	900	1500	2500
MPA	2.0	5.0	6.3	10.0	15.0	25.0	42.0
TEMP (F°)	Pounds Per Square Inch (PSI)						
<100	285	740	985	1480	2220	3705	6170
200°	260	680	905	1360	2035	3395	5655
300°	230	655	870	1310	1965	3270	5450
400°	200	635	845	1265	1900	3170	5280
500°	170	605	805	1205	1810	3015	5025
600°	140	570	755	1135	1705	2840	4730
700°	110	530	710	1060	1590	2655	4425
800°	80	410	550	825	1235	2055	3430
900°	50	230	305	460	690	1150	1915
1000°	20	85	115	170	255	430	715

Flanged Connections, valves and its pressure ratings are generally assigned based on the ANSI Pressure Class Rating System established by the American National Standards Institute (ANSI) rather than referencing to PSI.

Application based consideration of various factors including the right selection of pressure rating is very important, hence this chart serves as a quick reference to compare ANSI Class rating and maximum allowed corresponding Pounds per Square Inch (PSI).

Above Chart gives reference to specific CS grade materials and this is an introduction to demonstrate how ANSI Class and its corresponding PSI reacts different, at various temperature levels.

For a detailed information refer to ANSI B16.5 for specific material grades.

MPA & PSI Conversion values

1 MPA = 145.03773773 PSI

1 PSI = 0.0068947573 MPA

To Calculate PSI of 2 MPA

2 MPA x 145.03773773 PSI = 290.07547546 PSI

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