

CARBON STEEL PLATE FLANGES AS2129 (AS & BS Table D to T) PRESSURE RATINGS

Temperature - Pressure Ratings for Carbon Steel Plate Flanges													
“Flange table”	Pressure, kPa												Maximum hydrostatic test pressure kPa
	Temperature, °C												
	-18°	-50°	250	275	300	325	350	375	400	425	450	475	
	to 120	to 232											
D		700	650	600	570	550	500	450	400	350			1 050
C	1 200												1 800
E		1 400	1 300	1 200	1 100	1 000	950	900	800	700			2 100
F		2 100	2 000	1 800	1 700	1 600	1 400	1 300	1 200	1 100			3 150
H		3 500	3 300	3 100	2 900	2 600	2 400	2 000	2 000	1 700	1 300	900	5 250
J		4 800	4 600	4 300	4 000	3 700	3 400	3 100	2 700	2 400	1 900	1 300	7 200
K		6 200	5 900	5 500	5 100	4 700	4 300	3 900	3 500	3 100	2 400	1 600	9 300
R		8 300	7 900	7 400	6 800	6 300	5 800	5 200	4 700	4 200	3 200	2 200	12 450
S		12 400	11 800	11 100	10 300	9 500	8 700	7 900	7 100	6 300	4 800	3 300	18 600
T		19 300	18 400	17 200	16 000	14 700	13 500	12 200	11 000	9 800	7 500	5 100	28 950

AS2129 still in use but now only covers Table D to H (Table C now obsolete), Table J to T now replaced by AS4331 which is a replication of ISO7005-1 and EN1092 which incorporates the previously European ‘DIN’ PN rated flanges. ISO7005-1 also incorporates equivalent to ASME 150-2500 class drillinds with equivalent PN rating (ANSI B16.5). AS4087 is the new standard replacing Table D to H. The same drilling is specified but the PN rating system is used (PN16 to PN35).

Note: AS4087 PN14 and dPN16 have adopted Table ‘D’ drilling, PN21 Table F drilling and PN35 is Table H drilling. Table E drilling no longer used although it is the same drilling as Table D/PN14/PN16 in all sizes except 100NB, 250NB, 450NB. However, 150NB, 200NB, 300NB, 600NB have smaller bolt hole sizes in PN14/PN16.

For ANSI 150 to 2500 class flange pressure/temperature ratings refer to the forged pressure/temperature ratings shown in the following [link](#).