

KDS013 Pressure-Temperature Ratings for Steel Flanges to AS2129
Carbon Steel (Made from Forgings or Plate)

Flange Table	Maximum Working Pressure (kPa) for the Temperatures Shown										
	-50 to 232°C	250°C	275°C	300°C	325°C	350°C	375°C	400°C	425°C	450°C	475°C
D	700	650	600	570	550	500	450	400	350		
E	1400	1300	1200	1100	1000	950	900	800	700		
F	2100	2000	1800	1700	1600	1400	1300	1200	1100		
H	3500	3300	3100	2900	2600	2400	2200	2000	1700	1300	900
J	4800	4600	4300	4000	3700	3400	3100	2700	2400	1900	1300
K	6200	5900	5500	5100	4700	4300	3900	3500	3100	2400	1600
R	8300	7900	7400	6800	6300	5800	5200	4700	4200	3200	2200
S	12400	11800	11100	10300	9500	8700	7900	7100	6300	4800	3300
T	19300	18400	17200	16000	14700	13500	12200	11000	9800	7500	5100

Alloy Steel (Made from Forgings or Plate)

Flange Table	Maximum Working Pressure (kPa) for the Temperatures Shown													
	-100 to 232°C	250°C	275°C	300°C	325°C	350°C	375°C	400°C	425°C	450°C	475°C	482°C	500°C	525°C
H	3500	3300	3200	3000	2800	2600	2500	2300	2100	2000	1800	1700	1200	500
J	4800	4700	4400	4200	3900	3700	3500	3200	3000	2700	2500	2400	1700	700
K	6200	6000	5700	5400	5100	4700	4400	4100	3800	3500	3200	3100	2200	940
R	8300	8000	7600	7200	6700	6300	5900	5500	5100	4700	4300	4100	3000	1300
S	12400	12000	11400	10700	10100	9500	8900	8300	7600	7000	6400	6200	4400	1900
T	19300	18600	17600	16700	15700	14800	13800	12800	11900	10900	9900	9700	6900	3000

Notes:

- Intermediate values are obtained by linear interpolation.
- ISO metric hexagon steel bolts - type XOX (aka "HRH Commercial Steel") are recommended for use with AS 2129 flanges for temperatures ranging between -50 to +300°C. Outside this temperature range, stud bolts complying with AS 2528 should be used.
- For M24 bolts and smaller, bolt/hole should have a nominal diametral clearance of 2 mm. Above M24, bolt/hole diametral clearance should be nominally 3 mm.