

AS 1200 Supplement 1.4—1991

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**Rulings to the SAA Boiler Code  
(Supplement to AS 1200—1988)**

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This Australian Standard was prepared by Committee ME/1, Boilers and Unfired Pressure Vessels. It was approved on behalf of the Council of Standards Australia on 18 February 1991 and published on 15 April 1991.

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**RULING ME/1/91-1**

**Date of issue:** April 1991.

**Subject:** Stainless steel flanges complying with AS 2129—1982.

**Enquiry:** What requirements apply to the use of stainless steel flanges to AS 2129—1982?

**Reply:** Standards Australia Committee ME/1 considers that stainless steel flanges may be used in accordance with AS 2129 under the following conditions:

- (a) Stainless steel flanges shall be limited to Types 304, 304L, 309, 310, 316, 316L, 321, 347 and 348 stainless steel.
- (b) Stainless steel flanges shall be limited to flange Tables D, E, F, and H.
- (c) Stainless steel flanges shall have the same thickness as that specified in AS 2129 for steel flanges.
- (d) The temperature/pressure ratings for stainless steel flanges shall be as shown in Tables 1, 2 and 3.
- (e) The requirements of AS 2129 shall apply.

NOTE: The temperature/pressure ratings for stainless steel flanges are based on AS 2129 Table 2.1, Temperature/pressure ratings for carbon steel and carbon-manganese steel. These ratings have been adjusted to take into account the different pressure ratings between carbon steel and the various types of stainless steel as given in ASME/ANSI B16.5—*Pipe flanges and flanged fittings, Class 150 flanges*. Allowance has also been made for the progressive increase in strength of stainless steel below 232°C.

**TABLE 1**  
**TEMPERATURE/PRESSURE RATINGS FOR FLANGES OF STAINLESS STEEL**  
**TYPES 304, 316, 321, 347 AND 348**

Flange Table	Pressure, kPa														Maximum allowable hydrostatic test pressure kPa	Flange Table
	Temperature, °C															
	-200 to 50	100	150	200	250	275	300	325	350	375	400	425	450	475		
D	950	850	750	650	650	600	570	550	500	450	400	350			1430	D
E	1900	1700	1500	1300	1300	1200	1100	1000	950	900	800	700			2850	E
F	2900	2500	2200	2000	1900	1800	1700	1600	1400	1300	1200	1000			4350	F
H	4800	4200	3700	3300	3200	3100	2900	2600	2400	2200	2000	1700	1300	900	7200	H

**TABLE 2**  
**TEMPERATURE/PRESSURE RATINGS FOR FLANGES OF STAINLESS STEEL**  
**TYPES 304L AND 316L**

Flange Table	Pressure, kPa														Maximum allowable hydrostatic test pressure kPa	Flange Table
	Temperature, °C															
	-200 to 50	100	150	200	250	275	300	325	350	375	400	425	450	475		
D	800	700	650	600	550	550	550	550	500	450	400	350			1200	D
E	1600	1400	1300	1200	1100	1100	1100	1000	950	900	800	700			2400	E
F	2500	2100	1900	1800	1700	1600	1600	1600	1400	1300	1200	1000			3750	F
H	4100	3500	3200	2900	2800	2800	2800	2600	2400	2200	2000	1700	1300	900	6150	H