THERMOWELLS: MAXIMUM ALLOWABLE WORKING PRESSURE

Threaded Thermowells
Straight and Stepped

MATERIAL		ORDER CODE	MAXIMUM ALLOWABLE WORKING PRESSURE - (MAWP)						TEMPERATURE RANGE			
			STRAIGHT				STEPPED					
			0.265" MAX BORE		0.390" MAX BORE		0.265" MAX BORE					
ASTM SPECIFICATION	TYPE/ TRADENAME		"Q" ≥ 5/8"		"Q" ≥ 3/4"		"V" ≥ 1/2"		C		F	
			@MIN TEMP	@MAX TEMP	@MIN TEMP	@MAX TEMP	@MIN TEMP	@MAX TEMP	MIN	MAX	MIN	MAX
A479 Gr. 304/304L	304/304L	09	7304 psi	3445 psi	5772 psi	2740 psi	5412 psi	2576 psi	-28 C	538 C	-20 F	1000 F
A479 Gr. 316/316L	316/316L	08	7176 psi	5118 psi	5675 psi	4084 psi	5331 psi	3827 psi	-28 C	538 C	-20 F	1000 F
A479 Gr. S34700	347	36	7176 psi	5118 psi	5675 psi	4084 psi	5331 psi	3827 psi	-28 C	538 C	-20 F	1000 F
A105	A105	61	8114 psi	5041 psi	6518 psi	4111 psi	6162 psi	3886 psi	-28 C	482 C	-20 F	900 F
B164 Gr. N04400	Alloy 400	27	6132 psi	3010 psi	4925 psi	2648 psi	4656 psi	2560 psi	-28 C	482 C	-20 F	900 F
B574 Gr. N10276	Alloy C276	29	9267 psi	5671 psi	7444 psi	4522 psi	7037 psi	4251 psi	-28 C	538 C	-20 F	1000 F
A182 Gr. F11 Cl. 2	F11 Cl. 2	60	8114 psi	5118 psi	6518 psi	4111 psi	6162 psi	3886 psi	-28 C	482 C	-20 F	900 F
A182 Gr. F22 Cl. 3	F22 Cl. 3	59	10183 psi	5118 psi	8054 psi	4111 psi	7566 psi	3886 psi	-28 C	482 C	-20 F	900 F
A182 Gr. F91	F91	91	13559 psi	5118 psi	10713 psi	4111 psi	10060 psi	3886 psi	-28 C	482 C	-20 F	900 F
B473 Gr. N08020	Alloy 20	38	8299 psi	5994 psi	6666 psi	4814 psi	6302 psi	4551 psi	-28 C	425 C	-20 F	800 F
B166 Gr. N06600	Alloy 600	03	6362 psi	1505 psi	5110 psi	1215 psi	4832 psi	1148 psi	-28 C	650 C	-20 F	1200 F
B408 Gr. N08800	Alloy 800	37	7100 psi	4887 psi	5703 psi	3925 psi	5392 psi	3711 psi	-28 C	593 C	-20 F	1100 F
A479 Gr. S31008	310S	04	7176 psi	5118 psi	5675 psi	4084 psi	5331 psi	3827 psi	-28 C	538 C	-20 F	1000 F
B166 Gr. N06601	Alloy 601	07	6362 psi	1512 psi	5110 psi	1215 psi	4831 psi	1148 psi	-28 C	650 C	-20 F	1200 F
B160 Gr. N02200	Nickel 200	31	3163 psi	3163 psi	2540 psi	2540 psi	2402 psi	2402 psi	-28 C	316 C	-20 F	600 F

- These tables are for reference only. Other design factors should be taken into consideration in addition to temperature and pressure, such as vibration, corrosion, and installation method.
- MAWP data for materials and temperatures not shown on this table is available upon request.

Threaded Thermowells
Tapered and Limited Space

MATERIAL		ORDER CODE	MAXIMUM ALLOWABLE WORKING PRESSURE - (MAWP)						TEMPERATURE RANGE			
			TAPERED				LIMITED SPACE					
			0.265" MAX BORE		0.390" MAX BORE		0.265" MAX BORE					
ASTM SPECIFICATION	TYPE/ TRADENAME		"V" ≥ 5/8"		"V" ≥ 3/4"		"Q" ≥ 1/2"		C		F	
			@MIN TEMP	@MAX TEMP	@MIN TEMP	@MAX TEMP	@MIN TEMP	@MAX TEMP	MIN	MAX	MIN	MAX
A479 Gr. 304/304L	304/304L	09	7304 psi	3445 psi	5772 psi	2740 psi	5412 psi	2576 psi	-28 C	538 C	-20 F	1000 F
A479 Gr. 316/316L	316/316L	08	7176 psi	5118 psi	5675 psi	4084 psi	5331 psi	3827 psi	-28 C	538 C	-20 F	1000 F
A479 Gr. S34700	347	36	7176 psi	5118 psi	5675 psi	4084 psi	5331 psi	3827 psi	-28 C	538 C	-20 F	1000 F
A105	A105	61	8114 psi	5041 psi	6518 psi	4111 psi	6162 psi	3886 psi	-28 C	482 C	-20 F	900 F
B164 Gr. N04400	Alloy 400	27	6132 psi	3010 psi	4925 psi	2648 psi	4656 psi	2560 psi	-28 C	482 C	-20 F	900 F
B574 Gr. N10276	Alloy C276	29	9267 psi	5671 psi	7444 psi	4522 psi	7037 psi	4251 psi	-28 C	538 C	-20 F	1000 F
A182 Gr. F11 Cl. 2	F11 Cl. 2	60	8114 psi	5118 psi	6518 psi	4111 psi	6162 psi	3886 psi	-28 C	482 C	-20 F	900 F
A182 Gr. F22 Cl. 3	F22 Cl. 3	59	10183 psi	5118 psi	8054 psi	4111 psi	7566 psi	3886 psi	-28 C	482 C	-20 F	900 F
A182 Gr. F91	F91	91	13559 psi	5118 psi	10713 psi	4111 psi	10060 psi	3886 psi	-28 C	482 C	-20 F	900 F
B473 Gr. N08020	Alloy 20	38	8299 psi	5994 psi	6666 psi	4814 psi	6302 psi	4551 psi	-28 C	425 C	-20 F	800 F
B166 Gr. N06600	Alloy 600	03	6362 psi	1505 psi	5110 psi	1215 psi	4832 psi	1148 psi	-28 C	650 C	-20 F	1200 F
B408 Gr. N08800	Alloy 800	37	7100 psi	4887 psi	5703 psi	3925 psi	5392 psi	3711 psi	-28 C	593 C	-20 F	1100 F
A479 Gr. S31008	310S	04	7176 psi	5118 psi	5675 psi	4084 psi	5331 psi	3827 psi	-28 C	538 C	-20 F	1000 F
B166 Gr. N06601	Alloy 601	07	6362 psi	1512 psi	5110 psi	1215 psi	4831 psi	1148 psi	-28 C	650 C	-20 F	1200 F
B160 Gr. N02200	Nickel 200	31	3163 psi	3163 psi	2540 psi	2540 psi	2402 psi	2402 psi	-28 C	316 C	-20 F	600 F

- These tables are for reference only. Other design factors should be taken into consideration in addition to temperature and pressure, such as vibration, corrosion, and installation method.
- MAWP data for materials and temperatures not shown on this table is available upon request.