

## Specifications

**About Stainless Steel** - Stainless steel can be defined as a steel alloy that has a minimum chromium level of 11% of its mass. Stainless steel fittings are used when the properties of steel and resistance to corrosion are required.

**Applications** - Stainless Steel Fittings are most suitable for marine, pumping, commercial, domestic chemical and irrigation applications.

'150lb' stainless steel fittings are made from grade 316 stainless steel. 150lb refers to the maximum working pressure/temperature of 150psi saturated steam.

### Applicable Standards

- AS 1722.2 - Pipe Threads of Whitworth Form (Fastening thread)
- ASTM A351 - Standard Specification of Castings, Austenitic for pressure-containing parts
- ASTM A182 - Standard Specification for forged or rolled alloy and stainless steel pipe flanges, forged fittings, valves and parts for high temperature parts
- ISO 4144 - Pipework - Stainless Steel fittings Threaded in Accordance with ISO7 - 1

British Standard Threads							
All measurements in mm							
NOMINAL BORE OF PIPE		APPROX. OUTSIDE DIAMETER	NUMBER OF THREADS PER INCH	PITCH	DEPTH OF THREADS	DIAMETER AT GAUGE PLANE	LENGTH OF USEFUL THREAD
IMPERIAL	METRIC	A		P	h	B	E
1/8	6	10.16	28	0.907	0.581	9.72	6.5
1/4	8	13.66	19	1.337	0.856	13.15	9.7
3/8	10	17.17	19	1.337	0.856	16.66	10.1
1/2	15	21.51	14	1.814	1.162	20.95	13.2
3/4	20	27.00	14	1.814	1.162	26.44	14.5
1	25	33.93	11	2.309	1.479	33.24	16.8
1 1/4	32	42.59	11	2.309	1.479	41.91	19.1
1 1/2	40	48.48	11	2.309	1.479	47.80	19.1
2	50	60.47	11	2.309	1.479	59.61	23.4
2 1/2	65	76.09	11	2.309	1.479	75.18	26.7
3	80	88.87	11	2.309	1.479	87.88	29.8
4	100	114.14	11	2.309	1.479	113.03	35.8
5	125	139.65	11	2.309	1.479	138.43	40.1
6	150	165.12	11	2.309	1.479	163.83	40.1

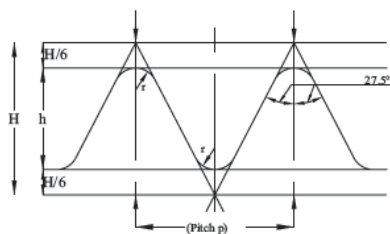


Fig. 1. (Parallel)  
 $H = 0.960491 \times p$   
 $h = 0.640327 \times p$   
 $r = 0.137329 \times p$

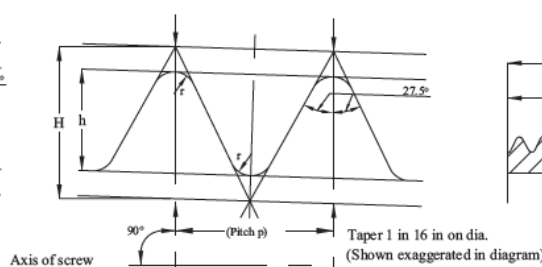


Fig. 2. (Taper)  
 $H = 0.960237 \times p$   
 $h = 0.640327 \times p$   
 $r = 0.137278 \times p$

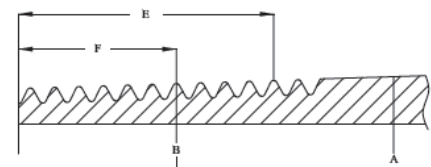


Fig. 3. (Taper)

Mechanical Properties		
TENSILE STRENGTH MIN.	YIELD STRENGTH MIN.	ELONGATION MIN.
70000 psi	25000 psi	35%

316/316L Chemical Composition %							
C MAX	Cr	Mn MAX	Mo	Ni	P MAX	S MAX	Si MAX
0.035	16.0-20.0	2	2.0-3.0	10-15.0	0.04	0.03	0.75