

**RIGHTON**

**BLACKBURNS**

# STAINLESS STEEL TUBULAR PRODUCTS



## Introduction

BSP fittings are a family of fittings used to connect up threaded pipe and equipment.

They are manufactured from pipe, bar, hollow bar, castings or forgings.

The pipe to be threaded must have a wall thickness of Schedule 40S minimum.

The fittings are used in non-critical, low pressure applications where welding is not possible or required. They therefore provide a relatively low cost method of connection.

BSP fittings are made only in type 316.

BSP fittings are usually fitted with a sealant (paste or tape such as PTFE) and are considered to be permanent pipe-work.

Low Pressure BSP Fittings are rated at 150lb and are made to wrought iron specification BS 1740.

They are provided with a Certificate of Conformity only, and not a full Test Certificate.

Sizes  $\frac{1}{8}$  to 3 inch are the most commonly used and thus the most readily available.

External MALE threads are tapered and Internal FEMALE threads are parallel. The threads are cut to BS21: Part 1: 1985 and are called Whitworth Threads - see below...

## BSP Fittings

### RANGE



90° Elbow



Equal Tee



Union



45° Elbow



Half Socket



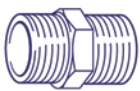
Socket



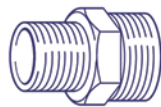
Round Nut



Reducing Socket



Hexagon Nipple



Reducing Nipple



Equal Nipple



Cap



Barrel Nipple



Welding Nipple



Square Head Plug



Hexagon Head Plug



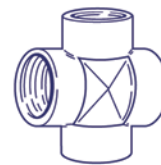
Hose Connector



Reducing Bush



Hexagon Nut



Cross

# BSP Fittings

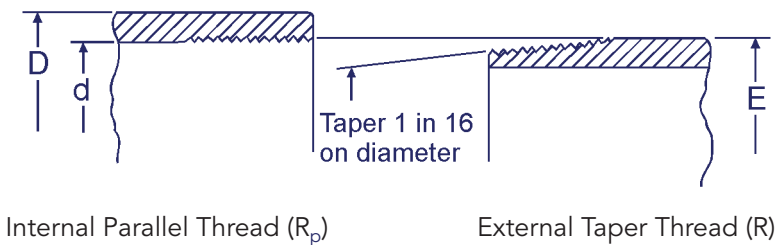
## SIZES SPECIFICATIONS

### DIMENSIONS

Nominal Size of Outlet		D Min O/D	E Min O/D of body behind external thread	d Min I/D of body behind internal thread	No. of threads per inch
in	mm	mm	mm	mm	
1/4	6	15.0	9.8	8.6	28
5/16	8	18.5	13.3	11.4	19
3/8	10	22.0	16.8	15.0	19
5/8	15	27.0	21.1	18.6	14
3/4	20	32.5	26.6	24.1	14
1	25	39.5	33.4	30.3	11
1 1/4	32	49.0	42.1	39.0	11
1 1/2	40	56.0	48.0	44.8	11
2	50	68.0	59.8	56.7	11
1/2	65	84.0	75.4	72.2	11
3	75	98.0	88.1	84.9	11
4	100	124.0	113.3	110.1	11
5	125	151.0	138.7	135.5	11
6	150	178.0	164.1	160.9	11

### THREADING REQUIREMENTS

Fittings manufactured to BS 1740 are threaded in accordance with BS 21:1985, Pipe threads for tubes and fittings where pressure-tight joints are made on the threads.



### TOLERANCES (BS 1740)

Nominal Pipe Size	Length of Socket Unions	Length or Centre to Face Tolerances for Other Fittings
	±mm	±mm
≤25	6	1.5
25 to 40	6	3.0
>40 to 65	10	4.5
>65 to 75	12	6.0
>75 to 110	16	-
>75 to 150	-	8.0
>150	-	10.0