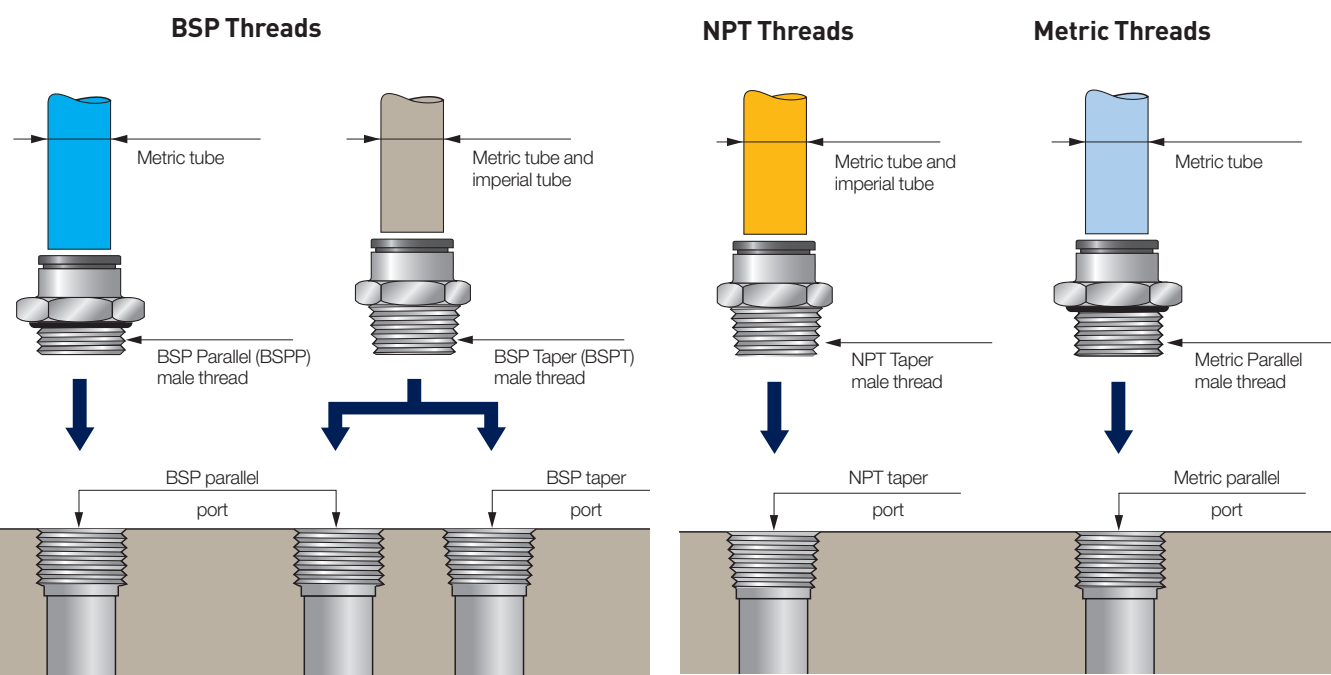


# Fitting Threads



**BSP Threads (British Standard Pipe)**

**NPT Threads (National Pipe Thread)**

There are two types of "Pipe" profile threads:

- **Parallel (BSPP):** these threads fit in matching parallel ports. Sealing is provided by an O-ring gasket or a sealing washer.
- **Taper (BSPT):** these threads fit in matching parallel or taper ports. Sealing is provided by a pre-coating on the thread.

**Thread designation**

- **BSP Parallel (BSPP):**  
G followed by the denomination, according to standard ISO 228-1.  
Example: 1/8 BSP parallel thread = G1/8
- **BSP Taper (BSPT):**  
R followed by the denomination, according to standard ISO 7-1.  
Example: 1/8 BSP parallel (BSPP) thread = R1/8
- **Female threads:**  
BSP parallel: G followed by the designation  
BSP taper: R followed by the designation

This is an American standard taper thread which fits into the matching taper port. Sealing is provided by a pre-coating on the thread.  
Example: 1/8 NPT thread = 1/8 NPT

**Metric Threads**

These ISO-profile threads are parallel and are fit into the matching parallel port. Sealing is provided by an O-ring or a sealing washer.

**Thread designation**

- M depending on the diameter and pitch in millimetres, separated by a multiplication sign, in accordance with standards ISO 68-1 and ISO 965-1.  
Example: metric thread diameter 7 with a pitch of 1 mm = M7x1

**Thread Identification**

| BSP Thread | Code | NPT Thread | Code | Metric Thread | Code | Metric Thread | Code | Metric Thread | Code |
|------------|------|------------|------|---------------|------|---------------|------|---------------|------|
| 1/8"       | 10   | 1/16"      | 08   | M3x0.5        | 09   | M12x1.25      | 66   | M22x1.5       | 82   |
| 1/4"       | 13   | 1/8"       | 11   | M5x0.8        | 19   | M12x1.5       | 67   | M24x1.5       | 83   |
| 3/8"       | 17   | 1/4"       | 14   | M6x1          | 52   | M13x1.25      | 68   | M27x1.5       | 85   |
| 1/2"       | 21   | 3/8"       | 18   | M7x1          | 55   | M14x1.25      | 70   | M30x2         | 88   |
| 3/4"       | 27   | 1/2"       | 22   | M8x1          | 56   | M14x1.5       | 71   | M33x1.5       | 90   |
| 1"         | 34   | 3/4"       | 28   | M8x1.25       | 57   | M16x1.25      | 74   | M39x1.5       | 36   |
| 1 1/4"     | 42   | 1"         | 35   | M10x1         | 60   | M16x1.5       | 75   | M42x1.5       | 37   |
| 1 1/2"     | 49   | 1 1/4"     | 43   | M10x1.5       | 62   | M18x1.5       | 78   | M42x2         | 96   |
| 2"         | 48   | 1 1/2"     | 50   | M12x1         | 65   | M20x1.5       | 80   | M48x2         | 98   |
|            |      | 2"         | 44   |               |      |               |      |               |      |