

# Flanged Pipes

## BS EN 545/598 ISO-2531

### Class K9 & Class K12

Flanged Pipes are traditionally manufactured using two main methods.

- 1 Casting the Flanges Integrally - Class K12**
- 2 Welding the Flanges on to Centrifugally spun DI Pipes - Class K9**

Option No 1 is usually economical with small diameter short length pipes where there is a regular requirement. Such Pipes are listed separately. It can also be advantageous to cast larger diameter flanged pipes - especially those with puddle flanges when the lengths are less than 2M. The down side is that unless patterns are already existing for the sizes required, pattern modifications or new patterns may have to be made which can add to the costs. Where pipes are cast with spigot ends, the spigot ends will be machined to the correct pipe OD to allow connection to DI Sockets or Couplings/Flange Adaptors.

With Option No 2, Pipes can be fabricated more quickly and there is no restriction on available pattern lengths, as the pipes can be cut to suite specific requirements. For sizes other than short cast pipes or large diameter pipes with puddle flanges, fabricated Pipes can be most cost effective.

#### Specification of Flanged Pipes:

We have listed on the second sheet how Flanged Pipes should be dimensionally specified.

#### Coatings of Flanged Pipes:

Flanged Pipes made by the casting process can follow the same specification as pipe Fittings, namely:

International Standard :	Cement Lined Internally - Bitumen Coated Externally ISO 2531
UK Standard:	Blue Epoxy Coated in/out - BS EN 545 - Potable Water Red Epoxy Coated In/out - BS EN 598 - Non Potable Water

Flanged Pipes made by the welding process follow a different coating specification and are similar to the centrifugally spun pipes, namely

International Standard :	ISO 2531 Cement Lined Internally - Bitumen Coated Externally
UK Standard:	BS EN545 - Potable Water Cement Lined & Epoxy seal coated internally Bitumen or Blue Epoxy coated externally
UK Standard:	BS EN 598 - Non Potable Water HAC (High Alumina Cement) Lined internally Red Epoxy Coated Externally

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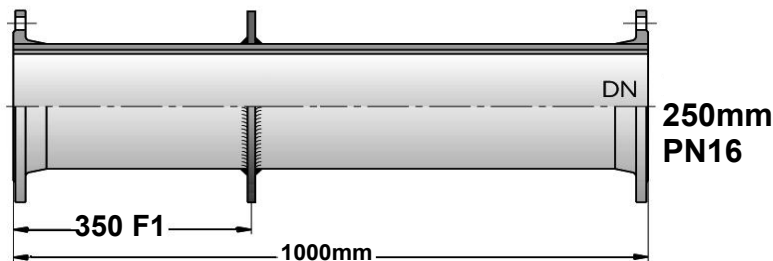
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**Example Specification of: Double Flanged Pipe with Puddle Flange**

**250mm x 1000mm DF Pipe + P/F 350 F1 - PN16**



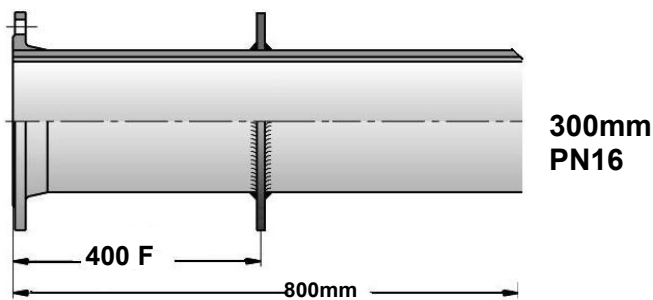
**Notes:**

Puddle Flanges should normally be positioned at least 150mm from the end flange.

Bosses should also be positioned At least 200mm from an end flange or a puddle flange

**Example Specification of: Flanged Spigot Pipe with Puddle Flange**

**300mm x 800mm F/Spigot + P/F 400 F**



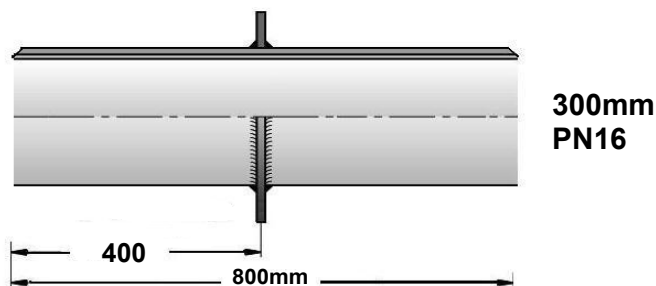
**Notes:**

Puddle Flanges should normally be positioned at least 150mm from the end flange and no less than 100mm from the spigot end.

Bosses should be positioned At least 200mm from an end flange or a puddle flange or spigot end.

**Example Specification of: Double Spigot Pipe with Puddle Flange**

**300mm x 800mm D/Spigot Pipe + P/F 400**



**Notes:**

Puddle Flanges should normally be positioned at least 100mm from the spigot end.

Bosses should also be positioned at least 200mm from the spigot end or a puddle flange

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