

Data Sheet for:

Bi-Metallic Flanges to BS4504 Part 2 (1974) Table 16/23

General:

Bi-metal (carbon steel and gunmetal) flanges, also known as composite flanges, spinning flanges, or QA (Quick Action) flanges. To be used with copper and copper-alloy tubes for water and sanitary applications.

Pressure-Temperature Ratings:

Nominal Pressure (bar)	Temperature (Degrees C)						
	-10/120	150	180	200	220	250	260
16	Maximum Permissible Working Pressure (bar)						
	16	16	16	13.5	11.3	8	7

Materials:

Outer flange: Carbon steel conforming to BS4360 Grade 40A. Inners: Cast Gunmetal conforming to BS1400 LG2.

Finishes:

Outer flange: Machined all over, with green (RAL6011) epoxy coating for corrosion

resistance

Inner: Machined all over, supplied with tube stop, for location of tube.

Bolting:

The dimensions and finishes of bolting materials should comply with the following: -

- -Studs: BS4439 Grade 4.8
- -Hexagon Headed Bolts: BS3692 or BS4190 Grade 4.6
- -Stud-bolts: BS4882 Carbon steel.
- -Nuts: BS3692, BS4190 Grade 4, or BS4882 Grade 2H/M as appropriate.

Where washers are used, they should conform to BS4320 (1968) Table 3.

Gaskets:

Inside bolts gaskets should be used, with the material selection made with consideration of the suitability for the fluid, at the intended working temperature and pressure conditions.

Attachment of flanges:

Gunmetal inners to be silver brazed to copper or copper-alloy tubes, to the requirements of the appropriate application standard.

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