



## Bimetalllic CF Components: Titanium to Aluminium Flanges

420-CFTxx-BITAL, DN16CF to DN160CF

### Advantages of Titanium Grade 5:

- Typical tensile strength 1000N/mm<sup>2</sup> (= 2.5x value of Stainless Steel 316L)
- Typical tensile yield point 910N/mm<sup>2</sup> (= 1.5x value of Stainless Steel)
- Hardness ~ 350 HV (= 1.7x value of Stainless Steel)
- Weight 4,45g/cm<sup>3</sup> (= 0.55x value of Stainless Steel)
- Fitted with Aluminium tube

### Advantages of Aluminium AlMgSi:

- Long tube length reduces welds on chamber manufacturing
- Large tube dimensions give maximum space:  
ID 16CF: 16mm / 40CF: 39mm / 63CF: 65mm / 100CF: 100mm / 160CF: 152mm

### Advantages of the Biallec Bimetalllic Flanges:

- Rotatable "Allectra" flange with through holes and tapped holes
- Low outgassing materials
- Zero magnetism
- All CF seals can be used, including Nickel seals

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## Bimetalllic CF Components: Titanium to Aluminium Flanges

420-CFT16-BITAL, 420-CFT40-BITAL, 420-CFT63-BITAL, 420-CFT100-BITAL, 420-CFT160-BITAL, DN16CF to DN160CF

**biallec** Under the trademark Biallec Allectra offers bimetalllic CF components. These are Titanium CF Flanges with Aluminium Tube. The new patented bimetalllic flange components revolutionise chamber design of Aluminium chambers and are cost effective.

If zero magnetism is required in chamber manufacturing, Titanium flanges fitted with Aluminium tubes or Aluminium blank-offs are the best choice.

Rotatable flanges which can be fixed with a set screw give maximum flexibility. We deliver these items with the rotatable "Allectra" style flange, which combines through holes and tapped holes. In addition, the rotary outer parts can be exchanged to other shapes, allowing for the use of chain clamps if required. The reduced closing time is often very important in radiation environments.

The Titanium Flange is fitted with a long Aluminium tube which allows direct assembly of the flange to an Aluminium chamber body without an extra weld for extension of the tube.