



Information Data Sheet – Double Studded Adaptor

W Maass (UK) Ltd provides a range of Double Studded Adaptors suitable to make a compact transition from one flange size and type to another. Any reasonable combination of dissimilar flanges can be catered for, in any typical material with any gasket profile.

Size & Design

A W Maass UK Ltd Double Studded Adaptor (DSA) is intended to have studs screwed into tapped holes on both sides positioned on the relative bolt PCDs, normal through holes in the mating flanges and nuts on the flange side tightened by torque setting or hydraulic tensioner.

Depth of tapped holes in the DSA are carefully calculated according to rules of ASME VIII Div 1, considering materials and pull out force.

The DSA flange thickness is normally the same as the largest flange to be mated with, but sometimes extra thickness is required if tapped holes of opposing sides may break into each other during manufacture. Figure 1 shows a typical RTJ DSA and how the tapped holes can be close to each other.

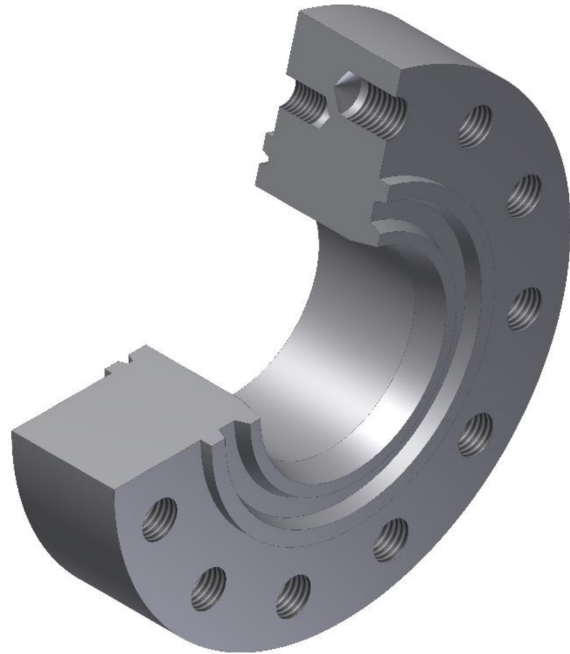
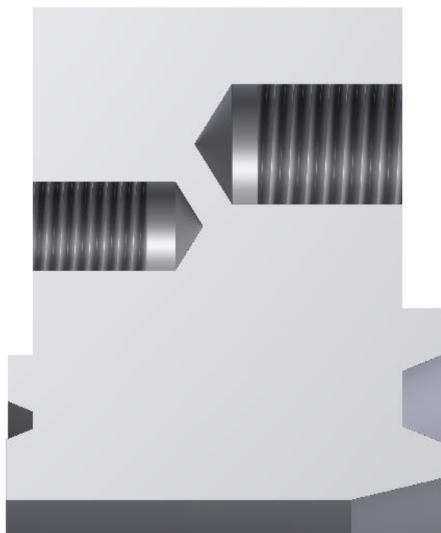


Figure 1 – W Maass UK Ltd Typical DSA

Design calculations or analysis by FEA can be provided by W Maass UK Ltd to prove the design of the DSA if required. Alternatively, W Maass UK Ltd can offer hydrostatic testing to prove suitability.



It's normal for the DSA to have a transition in the bore to accommodate different bores. The angle of transition is normally 14° max, which can sometimes itself increase the thickness of the DSA if the step is large.

As shown in Figure 2, one side of the DSA can be R type ring groove and the other side can be BX type ring groove for example.

DSA with CRA clad overlay to the ring grooves or all wetted surfaces is common.

Contact W Maass UK Ltd for further information.

Figure 2 – W Maass UK Ltd, R & BX Type DSA