

Products



























Basic Assemblies



Fixed points must resist the forces along the pipe axis, which occur

- (1) due to temperature changes (ex pansion of the pipe) and/or
- (2) due to hydrostatic pressure in "open" systems (e.g. systems with axial expansion joints)

combination of forces:

FP(1) = FR + FBFP(2) = FR + FH + FF

FP = Fixed Point Force

- FR = Friction Force
- FB = Bending Force (bending leg)
- FH = Force resulting from hydrostat. Pressure
- FF = Spring Force (expansion joint)

In order to safely avoid the pipes from slipping in the pipe clamps, stoppers have to be installed.

At the fixed point the max. dislocation of a pipe should not exceed 3 mm.







Trestle Arrangement (Assembly and Scope of Delivery)



Soundproof Fixed Points





Pipe Clamps with rubber lining can be used as soundproof fixed points, however only in case of low fixed point forces.

For higher force-resistance requirements, clamps without lining are used, and the sound absorption is provided at the connection to the substructure.

Highly resilient Fixed Points with a high sound absorption (up to 15 dB (A)) can be catered for when using a trestle arrangement including 4 SDE 2 Sound Absorbers UG 16 and a Fixed Point Clamp.

Caution!

When requirements are particularly high or specific regulations have to be considered, additional means are necessary to cater for shear forces.



Procedure for designing of trestle arrangement





Type tested static for trestle arrangement Type A (45°) and type B (30°)









Chilled Water Fixed Point Clamp FKS - Installation to the pipe



4 Hexagon Bolts 4 Hexagon Screws



Chilled Water Fixed Point Clamp FKS - Installation to the building structure





The symmetrical trestle arrangement allows for the pipe anchor forces to be resisted in either axial direction, and will be transferred appropriately into the building substructure to which it is attached.

Chilled Water Fixed Point Clamp with suitable Mounting Kits VP - two versions are available:

- without sound absorbtion (Mounting Kit VP A/B with UG)
- with sound absorbtion (Mounting Kit VP SDE2).

Note:

A compressive strength of 0.6 N/mm² is used for determining the allowable static compressive strength resistance of the PUR clamp material (density 250 kg/m³).