

PTFE Pipe Slide Assemblies

Overview

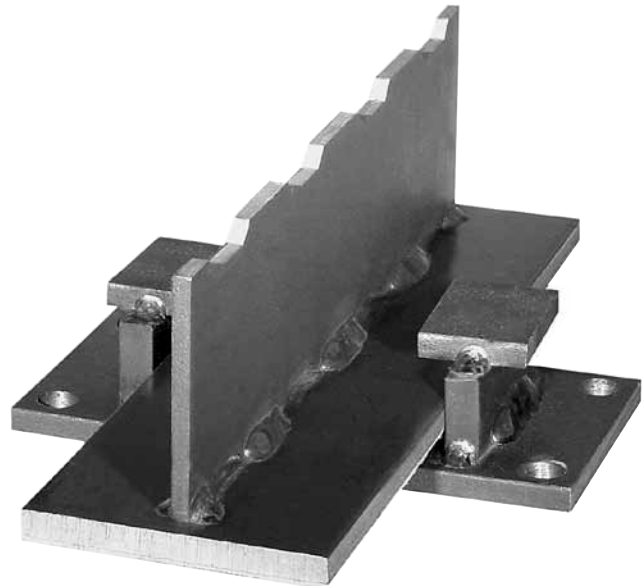
Application

Anvil PTFE pipe slide assemblies are designed to support the pipe and provide for lateral and axial movement due to thermal expansion and contraction of the piping system.

Assemblies are fabricated using PTFE slide bearings to provide a low coefficient of friction, minimizing frictional stress on the pipe and support structure.

Features

- Pre-engineered to save calculation and installation time.
- PTFE slide bearing pads are composed of 100% virgin Polytetrafluoroethylene polymer.
- Capable of supporting constant loads up to 2000 PSI at 70° F
- Coefficient of friction typically ranges between 0.06 and 0.2 depending on bearing surface area, bearing load (sample ranges shown in chart for given pressures at 70°F). Consult your Anvil representative for further information. The low coefficient of friction for the PTFE slide assemblies permits a smooth, unrestrained movement of the pipe and reduces overturning movements on supporting structures.
- PTFE is chemically inert and resists attack by chemicals, humidity and other elements found in harsh environments provided that the steel supports are suitably protected.
- Self-lubricating, maintenance-free.
- Provides resistance to galvanic corrosion between pipe and support structure.
- Maximum temperature: 400° F at PTFE
- Allows for up to 4" insulation thickness as standard. Greater than 4" insulation available on special request. Special designed slides and tees available on request.



Selection

- (1) Determine the support location based on allowable span and loading conditions.
- (2) Calculate the load for each slide assembly location.
- (3) Determine the lateral and axial movement of the pipe and the direction of movement, cold to hot.
- (4) Select pipe slide or tee figure number and attachment configuration, welded or bolted.
- (5) Select the method of slide plate attachment to support structure, welded or bolted.
- (6) Designate whether guided or non-guided slide plate is required.
- (7) Maximum recommended loads shown for pipe slides and structural tees are for vertical loading. Transitional loads for pipe structural tees are to be determined by customer.

Installation

- (1) Determine offset of pipe slide-slide plate interface to allow maximum pipe movement in direction of greatest thermal displacement.
- (2) Attach PTFE slide to pipe by welding or clamping with standard Fig. 212 pipe clamp or Fig. 432 special pipe clamp.
- (3) Attach slide plates to supporting structure by bolting or welding.
- (4) Verify setting to insure full bearing between the PTFE slide and slide base surfaces under all pipe movement conditions.