



# HYDRAULIC PIPING

### Standard Applications

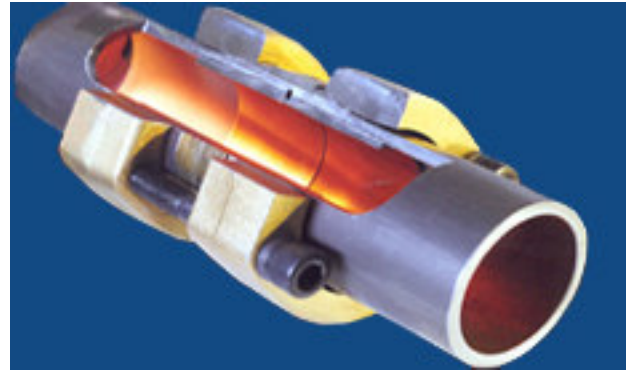
DTE has years of experience supplying and installing non-welded hydraulic piping systems. This piping has a significant impact on the commissioning and operation of laboratory test equipment. The most trouble free installations use a non-welded piping system.

The flared joint system incorporate flaring the pipe ends to 10 degrees and utilizing two internal cones. One O-Ring face cone flange with an SAE O-Ring and one flat face cone flange. External Code 61 4- Bolt flanges are used to connect the pipes and when tightened, form an interference fit.

The connections conform to SAE Flanges along with metric ANSI and DIN flanges. The connections have only one method of attaching flanges to pipe, which is by a 10-degree flare. The cone flares the pipe 10 degrees regardless of the system pressure, the pipe size, the wall thickness or the flange rating. All pipe sizes and wall thicknesses are flared the same way. All tooling is portable and low maintenance.

### Cost Savings

- A non-welded piping system can be assembled with one knowledgeable field technician and general assistants. No need for high paid welders with certificates for pressure welding.
- Bolted systems allow later additions to the piping system with minimal re-work.



### Time Savings

- Reduced on-site labor: All connection blocks are pre-fabricated
- Reduced flushing time due to cleaner systems
- No need to pickle and flush to remove slag etc.

### Quality of Installation

- Standardized materials for ISO rated shops prevents quality issues with materials
- Material is shipped oiled and capped preventing corrosion in pipes
- Systems are designed and installed with long radius bends (where applicable), reducing shock and the number of connections

### Component Life

- Non-welded piping systems are generally rated for 6000 psi. This will handle shocks and pressure spikes normally present in a system.
- System stays clean; particles cannot be trapped in poorly fitted joints, for later release to the fluid

### Environmental

- Flushing is done with operating hydraulic fluid. The cost of discarding environmentally unsafe acid pickling fluids is eliminated.
- All systems are virtually leak free with systems having operating life in excess of 10 years without leaks.



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