

# System Components

## Piecing It All Together ...

**Solutions** to prolong piping system life are often by design. For a new installation or complete renovation, the individual pieces have to be sized and selected. How can the number of joints and points of flow disturbance be minimized? Does maintenance require ease of disassembly with couplings, or are flanges or welds preferred? What's the head pressure and how can energy costs be minimized? Where are the points of high abrasion; do they need special attention? How does it all fit ....?

CF Ultra Tech can help you through these issues. Part of the solution is from engineering support and technical evaluation of the options including advantages and disadvantages. The other part comes from our manufacturing diversity and flexibility. We can engineer and fabricate your solution. And we can do it with the appropriate material, be it Ultra 500, Ultra 600, UltraWeld Overlays or Castings.

Appropriate selection can save time and money in the assembly, operation and maintenance of the system.

- Pipe lengths can be cut to precise length in **Spools**, fitted with the preferred end option to fit in the system.
- **Bends** can be fabricated in long sweeps of varied radius and angle to reduce energy loss plus reduce deterioration from abrasive particle flow.
- The bends can be further fitted with **Wearbacks** to result in the particles impacting itself, reducing pipe wear.
- **Tees** can be fitted to split or blend flows.
- **Wyes** and **Laterals** can achieve the same, but with lower energy losses.
- **Hose**, abrasion resistant and steel reinforced, can provide the flexibility where required.
- **End attachments**, custom designed or commercially available, can be adapted. These include flanges, snap/two-bolt couplings, weld rings and other options possibly required.

