

A step ahead
of state of the art

Higher cost and time pressure combined with ever increasing demands on quality – especially for the „less“ critical gases call for new ways of cooperation. One possibility could be innovative prefabrication.

One example from the semiconductor industry:

Task: Installation of 3000 ball valves

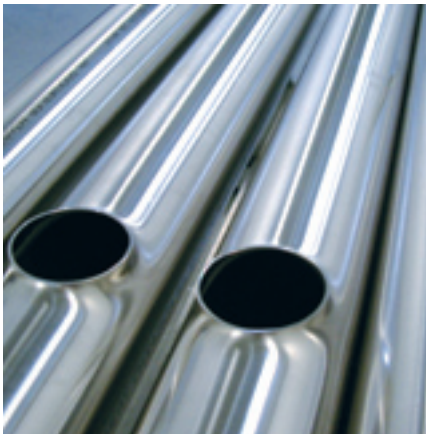
Time: 4 months from between access to building site and tool hook up

Traditional installation

1. Single horizontal crosses:
2 welds per valve
2. T-piece and valve with tube stubs:
3 welds per valve

Manifolds installation

- 2 welds per manifold (6.00 m) with typically 3-5 valves = saving per manifold of 4 to 8 welds
Saving through manifold installation instead of
1. Single horizontal crosses: 4000 welds
 2. T-piece and valve with tube stubs: 7000 welds



The sophisticated Dockweiler welding technology minimises the dead volume between tube and valve flange. Manifolds lengths in accordance with drawings and up to 6m or longer

Advantages of the Dockweiler Manifolds

- Fabrication in accordance with customer drawing
- Anodic cleaning/electropolishing after the final weld
- Short distance tube to valve
- Pressure and Helium leak test on the finished manifold
- Test documentation as part of the documentation package
- Spool and drawing no. marked on the manifold
- Reduced number of welds
- Simplified testing on site
- Reduced time of installation on site

Result:

High cost savings –
optimisation of the quality
of the total installation