Jointing Systems

Rubber Ring Joint

A Rubber Ring Joint (RRJ) consists of a specially-formed spigot and socket which, when pulled together, compresses a natural rubber O-ring between them providing a highly effective seal.

Suitable for both buried and above-ground installations carrying pressurise potable water, the jointing system is particularly effective in sizes from 450 mm to 1420 mm outer diameter steel pipes

The table below shows the **Maximum Working Pressures for Rubber Ring Joint** relative to the wall thickness and nominal bore of the pipe.

Wall Thickness	Maximum Working Pressure and RRJ in Bar												
12										36	33	30	26
10	42								31	30	27	25	21
8							37	35	31	28	25	23	
6			38	35	32	30	28	26	23	21			
4.5	38	35	32	29	27	25	23						
Nominal Bore (∅mm)	450	500	550	600	650	700	750	800	900	1000	1100	1200	1400

Advantages of RRJ over welded joints

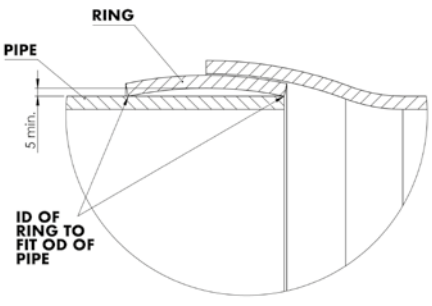
- Faster laying rates.
- Less field plant, maintenance and skilled personnel on site.
- No field wrapping or reinstatement of corrosion protection at joints.
- Joints maintain full seal up to pressures that would rupture the body of the pipe, even with angular rotation.
- No need to X-ray pipe joints.
- Local labour and small contractors can be trained to lay pipes easily.

Long lengths, less joins, less weight

Steel pipe manufactured by Hall Longmore is available in various standard lengths of up to 12 m and provide greater on-site savings for the installation of pipe with rubber ring joints. The picture above shows using a simple yet effective method of joining pipe with a block and tackle arrangement.

Spherical Slip In Joint

The Spherical Slip In Joint has been developed to meet customers needs. The SSJ provides a method of jointing welded, epoxy lined pipes without having to re-instate the joint internally. The radius sleeve or ring - along with a similarly profiles bell on the adjoining pipe - provides a 3° deviation in all directions while acting as a heat sink to dissipate the weld heat into the body of the pipe preventing damage to the internal lining.



Flanges

Flanging facility's available on request at Hall Longmore.