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Bonna Pressure Pipes

The Bonna pressure pipe is an internationally successful product with 100 years of proven performance under pressure.

Over 20,000km have been installed worldwide and the versatility of this pressure pipe system is clear from the range of applications that the system provides a cost effective solution for.

Applications

- Sea outfalls.
- Power station cooling water pipework.
- Sewage pumping mains.
- Sewage treatment works.
- Industrial plant pipework.

Benefits

Design Service

The requirements for each pressure pipe application are unique. A major advantage of the Bonna pressure pipe system is the inclusion of a free, in-house project design service which provides:

- Design calculations.
- Layout drawings.
- Installation manuals.
- Maintenance manuals.
- Optional site supervision.

Durability

- Will withstand full vacuum conditions.
- High resistance to impact loading.
- Abrasion resistant internal lining.
- Low hydraulic coefficient of friction.
- High resistance to floatation.
- Resistant to external climatic conditions.
- Designed to withstand water hammer.

Cost Effectiveness

- Optimal design for each project.
- Most 'as dug' material can be used as backfill.
- Thrust blocks are not required.
- Cathodic protection is not required.
- Pipeline curvature achievable through joint deflection.

Versatility

- Unrivalled diameter range from DN 250 - 4000.
- Installation by open cut or jacking.
- Underwater installation by float and lower, bottom tow or jacking.
- Joints can be welded, flanged, gasketed or custom made.
- A wide range of factory produced fittings are available, to virtually any configuration.

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Standard Pipe Design

Pipes consist of 3 primary components:

A watertight steel cylinder core with end rings to suit various joint types.

An internal protective concrete lining.

An external, load bearing, reinforced concrete protective coating.

Specification & Quality Assurance

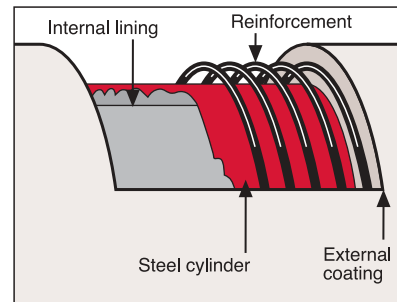
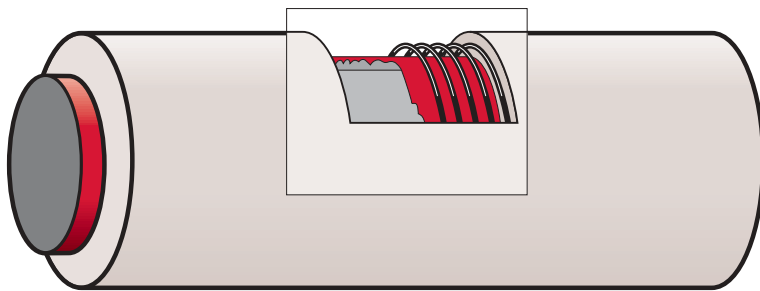
All pipes and fittings are designed and manufactured to BS EN 639 and BS EN 641 and manufactured in accordance with a Third Party Certified Quality System complying with BS EN ISO 9001 and 9002.

Fittings

Fittings of any configuration can be produced to suit the specific needs of each project.

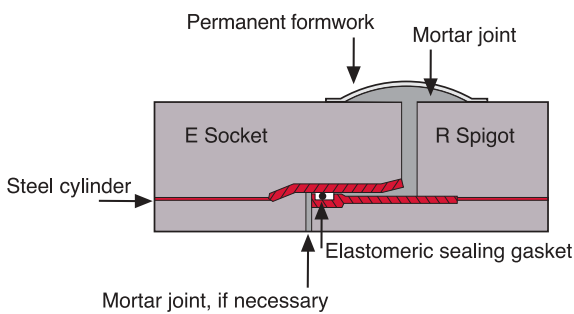
Fittings are coated internally and externally with reinforced concrete for durability and load bearing strength.

Fittings include bends, tees, reducers, short length pipes, diffuser units, flanged adaptors, closure units and various settlement compensator systems.

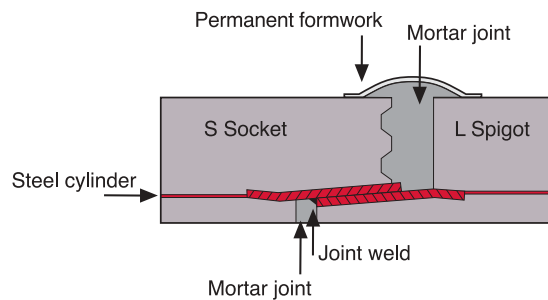


Standard Joint Types

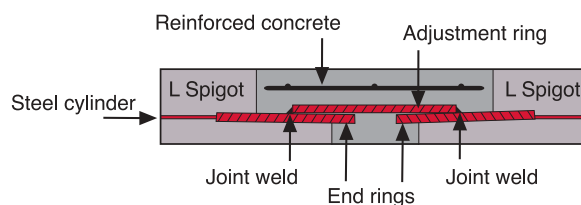
ER gasketed joint



SL welded joint



LL welded lap joint



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Bonna Pressure Pipes Data			
Internal Diameter	External Diameter	Effective Length	Approximate Weight/m
mm	mm	m	t
250	420	6.07	230
300	420	6.07	170
400	520	6.15/6.50	220
500	630	6.15/6.50	290
600	730	6.15/6.50	350
700	840	6.15/6.50	430
800	950	6.15/6.50	450
900	1060	6.15/6.50	630
1000	1164	6.15/6.50	710
1100	1276	6.15	840
1200	1390	6.15	990
1250	1470	6.15	1200
1400	1640	5.03/6.15	1460
1500	1740	5.03/6.15	1560
1600	1880	5.03	1950
1700	1980	5.03	2070
1800	2100	5.03/6.15	2350
2000	2320	4.50/6.00	2770
2100	2440	4.50/6.02	3090
2200	2560	4.50	3430
2350	2730	4.00	3860
2400	2800	5.03	4160
2500	2910	4.00	4440
2600	3030	2.91	4850
2800	3250	3.50	5450
3000	3480	3.60	6230
3200	3720	2.91	7210
3500	4080	2.41	8800
4000	4640	2.05	11070