



PIONEERS IN PIPE SOLUTIONS

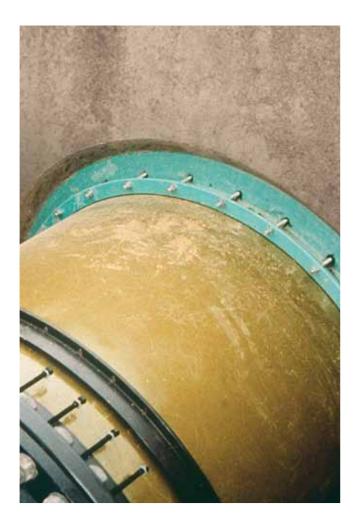
CRANE BUILDING SERVICES & UTILITIES



The Perfect Solution for Passing Pipes Through Walls

Old Practice

The normal procedure for passing pipes through walls is to leave a substantial cut-out in the wall during the original concrete pouring process. Later, the contractor will pass a 'puddle pipe' through the cut-out, and build an intricate 'letter-box' shutter around it. New concrete is then poured into the void to encapsulate the puddle pipe. Not only is this a time consuming process, but very often the puddle pipe moves with the pour and settles to a less than suitable alignment.





Easier Installation

By utilising a Viking Johnson wall coupling which is held rigidly between the shutters, the 'boxing out' process is eliminated. This means that pouring the wall is a simplified and is a single step process. It also guarantees that leak paths, which are inevitably set up when new concrete is poured onto old, are completely eliminated.

Using a standard Type 1 Viking Johnson wall coupling gives a versatile coupling either side of the wall where pipes can either be passed through or inserted into each side. This system allows for misalignment or angular deflection of up to 3° on each side of the wall. In addition, the use of a Viking Johnson wall coupling ensures that, on the outside of the structure, the first 'rocker' or settlement coupling is built into the shear face of the wall – exactly where it is required. It also means that only one further versatile coupling is needed to form the settlement 'rocker' instead of two. Consequently the installed cost can be drastically reduced, particularly where a large number of through the wall joints appear on a building, for instance in a gravity treatment works.

Approvals

All products are designed and manufactured under quality management systems certified to ISO 9001 and conform to the American Water Works Association's specification AWWA/ANSI C219 for bolted couplings.

Wall Couplings - Type 1

Product Design Benefits

Corrosion Protection

Metal components are coated with Rilsan Nylon 11 which is WRAS approved for use with potable water and offers a long term protection to corrosion, impact and abrasion to ensures continued reliable performance.

Customer Benefits

- Straightforward for Civil Contractor to position the pipe. >
- Easy to secure and prevent movement of the pipe work.
- Large formwork panels can be reused as there is no need to \succ make holes in the shuttering.
- No need for a contractor to come back and cast in pipes or 'make good' the wall surface after casting pipes.

Flexible Fit

Using a standard Type 1 Viking Johnson wall coupling gives a flexible coupling either side of the wall where pipes can either be passed through or inserted into each side. This allows for slight misalignment or angular deflection on each side of the wall.

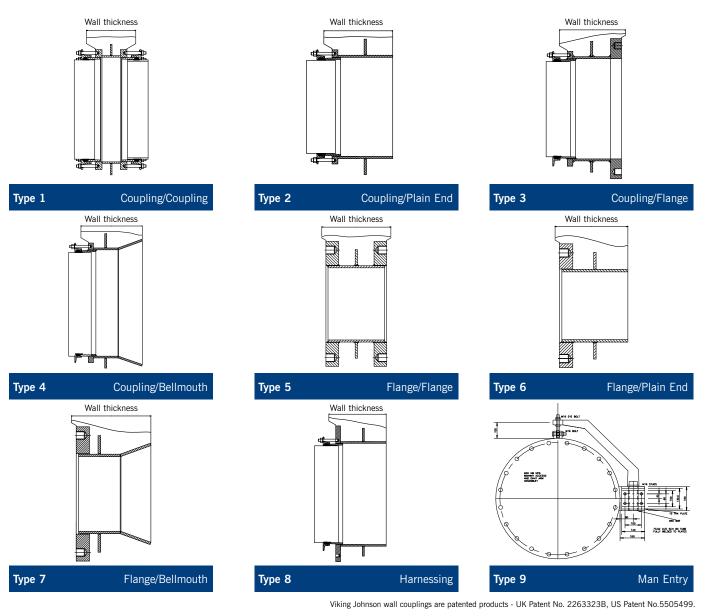
- Ensures good bond between wall and pipe.
- > Installed cost can be drastically reduced particularly where a large number of through the wall joints appear on a structure e.g. in a gravity treatment works.

Dedicated

Wall Couplings

Specifications

The Viking Johnson Wall Coupling is available in nine variations:



Materials & Relevant Standards

Viking Johnson strongly recommends the user ensures that the wall is structurally capable of withstanding the resultant forces induced by the system working pressure and any other related influences.

The materials of construction vary according to size and wall coupling type, with the following being those typically used in their manufacture:

Body/Centre Sleeve/End Ring:

DN80 to DN300

Carbon steel to BS EN 10025: Grade S275JR Ductile iron to BS EN 1563: Symbol EN-GJS-450-10

DN350 to DN1800

Carbon steel to BS EN 10025: Grade S275JR

Bolts/Nuts/Washer:

Tee Bolts or Stud - Steel to BS EN ISO 898-1: Property Class 4.8 **Washers** - Stainless Steel to BS 1449: Part 2: Grade 304S15

Gasket

Standard gaskets - EPDM to BS EN 681 Part 1 Type WA for water and sewage applications, with an operating temperature range of -40°C to +90°C.

Product coating

Wall coupling bodies and end rings: coated in black Rilsan Nylon 11. Optional, Scotchkote 206N fusion bonded epoxy.

Studs, 'T' bolts and nuts: either zinc plated to BS EN 12329: followed by Rilsan Nylon 11 for double protection against corrosion or Sheraplex coated to WIS 4-52-03.

Water contact materials

All water contact materials are WRAS listed for use with potable water.

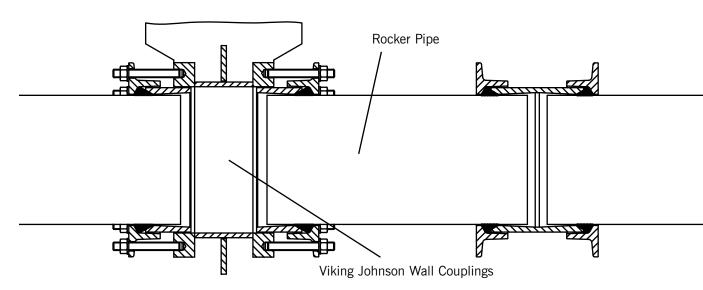
Every effort has been made to ensure that the information contained in this publication is accurate at the time of publishing. Crane Ltd assumes no responsibility or liability for typographical errors or omissions or for any misinterpretation of the information within the publication and reserves the right to change without notice.

Wall Couplings

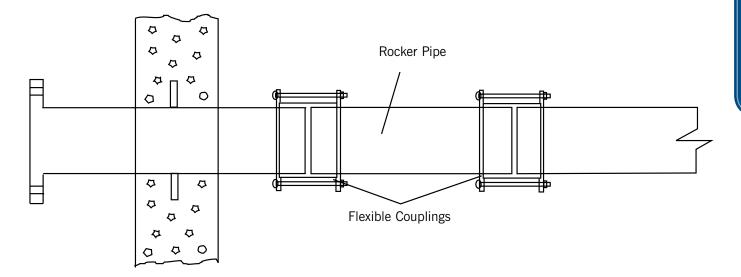
Specifications

Typical Installations

Wall Coupling Method



Conventional Method



Wall Couplings Check List

Wall Couplings are a bespoke product and Viking Johnson requires the following information to assist with the quotation process. This page can be copied from the brochure or a form is available on the website or directly from the Marketing Department.

Please fax back to: +44 (0)1462 443311 or email to: info@vikingjohnson.com

Company Name Date
Contact Name Email
Customer Address Telephone
Fax
Quantity
Delivery Date
Customer Reference No. Fab No.
Specifications
Nominal Diameter
Quantity
1st End (Please Tick) Man Entry Coupling Flanged Plain End Bellmouth Harness
2nd End (Please Tick) Man Entry Coupling Flanged Plain End Bellmouth Harness
Wall Thickness
Actual OD of Pipe
Pipe Material (Please Tick) Carbon Steel Stainless Steel D.I. G.R.P Concrete PVC-U
Other please specify
Fluid Flowing
If Flanged, Flange Details
If Harnessed - Stud Details (Please Tick) No. Diameter
Working Pressure Puddle Flange (Please Tick) Yes No
Any Other Details



46-48 WILBURY WAY HITCHIN, HERTFORDSHIRE SG4 0UD. UNITED KINGDOM

TELEPHONE: +44 (0)1462 443322 FAX: +44 (0)1462 443311 EMAIL: info@vikingjohnson.com

www.vikingjohnson.com











To visit our Video Library go to: www.youtube.com/user/CraneBSU

- Designed and manufactured under quality management systems in accordance with BS EN ISO 9001.
- Environmental Management System accredited to ISO 14001.
- For full terms and conditions, please visit our website.

Every effort has been made to ensure that the information contained in this publication is accurate at the time of publishing. Crane Ltd assumes no responsibility or liability for typographical errors or omissions or for any misinterpretation of the information within the publication and reserves the right to change without notice.

PIONEERS IN PIPE SOLUTIONS



BUILDING SERVICES & UTILITIES



DR7976_04_2015

www.cranebsu.com