



PIPE CONNECTIONS, REPAIR & FLOW CONTROL PRODUCTS FOR THE UTILITIES INDUSTRY

UltraGrip

Overview





Pipe Materials







UltraGrip products are designed to offer a solution to joining plain-ended pipes and contain an end load resistant mechanism, that grips and seals onto a variety of pipe materials including Cast Iron, Ductile Iron, Steel, PVC and PE.

In fact Viking Johnson is the only business that can offer within its range two alternative solutions for connecting PE and rigid pipes across a wide range of sizes. You can choose between the UltraGrip range of couplings and adaptors or the UltraGrip Pecatadaptor.

Pecatadaptors are supplied factory assembled to a PE tail, ready for fusion jointing into the network by butt-fusion or an electro-fusion coupler. The UltraGrip end can be connected to a wide variety of other pipe materials. The PE connection is 500mm in length which will accommodate two electrofusion connections. The Pecatadaptor joint is stronger than the pipe itself both initially and after years of service. Pecat fittings have been used in critical pipeline applications throughout the world for more than twenty years.

Due to the flexible nature of plastic pipes a close fit Stainless Steel internal support liner is required when mechanical joints are used on all PE pipes and thin walled PVC to prevent excessive pipe deformation which can occur.



For information & specifications on all UltraGrip products refer to the UltraGrip Dedicated braochure

UltraGrip Support Liner For PE & PVC Pipes

Easy to use in 4 Simple Steps

Step 1

Place insert in to pipe.

Step 2

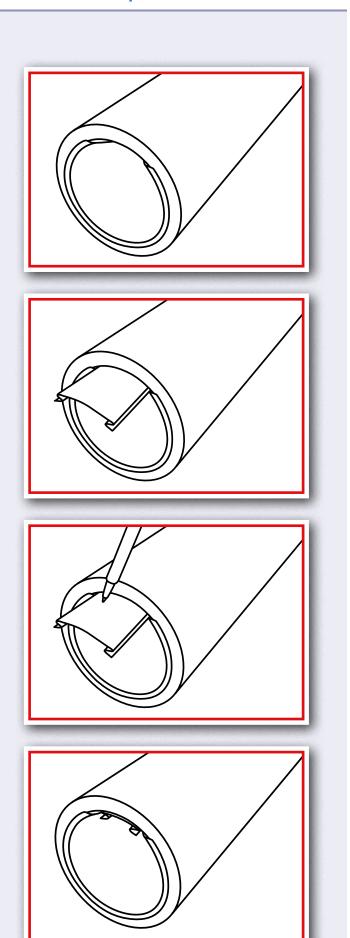
Slide insert until its collar contacts pipe end.

Step 3

Tap in the wedge until insert is in full circumferential contact with inside surface of pipe. Do not use wedge to expand the pipe.

Step 4

Remove excess wedge.



Next Generation UltraGrip

Features & Benefits

Intelligent Carriers

The carriers can accommodate high tolerances of pipe outside diameters – up to 44mm, with interlocking "spring" effect ensuring gasket & grippers retract so

product slips over top tolerance pipe without interference.

Unique UltraGrip Sealing Gasket

Specially profiled gasket (patent pending) ensures full seal even on scored and corroded pipes which has been tested on "knurled and grooved pipe", as detailed in "Specification for Methods of Repairing Leaking Ferrous Gas Mains Part 4; Pipe Repair Clamps, Split Collars and Under Pressure Branch Connections (GIS/LC8-4): 2006", to verify the sealing capability on severely corroded and pitted pipe in low pressure gas applications.

Tested on knurled and grooved pipe work

Simple to Fit

Progressive Gripping Mechanism

Increases its end load restraint capability as the internal pressure in the pipe increases. One gripper system suits all recommended pipe materials and offers full end load resistance at full angular deflection.

Captive bolt heads allow use of a single spanner to install with reversible orientation of the bolts in couplings and reducing couplings to accommodate site conditions.

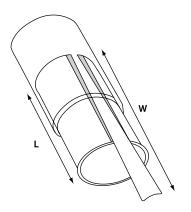
Customer Benefits

- ➤ High level of performance in both water and gas applications.
- Increased diameter range and wide tolerance delivers a reduction in stock holding costs.
- ➤ Gripping product can be converted to non-gripping flexible product by removing grippers, to permit axial movement.
- Available in Nitrile for gas and EPDM for water, materials approved by WRAS as well as KTW and DVGW W270 (11.2007) for potable water applications.
- > Reversible captive bolts for quick and easy installation.
- New design based on proven technology to deliver total peace of mind.

4 Viking Johnson UltraGrip
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UltraGrip Support Liner For PE & PVC Pipes

Specifications



Support Liner - Standard - 1mm thickness

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Pipe OD	Insert length L (mm)	SDR Rating	Wedge Length W (mm)
63	130	SDR 13, 6	220
75	130	SDR 11	220
90	130	SDR 17	220
90	130	SDR 13, 6	220
90	130	SDR 11	220
110	150	SDR 41	220
110	150	SDR 17	220
110	150	SDR 13, 6	220
110	150	SDR 11	220
125	150	SDR 17	220
125	150	SDR 11	220
140	150	SDR 11	220
160	175	SDR 41	220
160	175	SDR 17	220
160	175	SDR 13, 6	220
160	175	SDR 11	220
180	175	SDR 17	220
180	175	SDR 11	220

Materials

Stainless steel ASTM, AISI 304

Support Liner - Standard - 2mm thickness

Pipe OD	Insert length L (mm)	SDR Rating	Wedge Length W (mm)
200	180	SDR 41	220
200	180	SDR 17	220
200	180	SDR 11	220
225	180	SDR 17	220
225	180	SDR 11	220
250	180	SDR 11	220
280	200	SDR 17	220
280	200	SDR 13, 6	220
280	200	SDR 11	220
315	200	SDR 17	220
315	200	SDR 11	220
355	200	SDR 17	220
355	200	SDR 11	220
400	200	SDR 11	220
400	200	SDR 17	220

Materials

Stainless steel ASTM, AISI 304

Germany - Memmingen

Maintenance on Water Pipe Network

Next Generation UltraGrip Stepped Coupling - DN100/DN80

Project

In Germany, for daily repair and renewal of the existing pipe network many utility companies use PE-HD pipe materials. For this project, in Memmingen a FriaGrip (UltraGrip) stepped coupling, utilizes a stainless steel support liner to connect an old grey cast iron pipe sized at DN80 to a new DN100 PE pipe.

Client

Stadtwerke Memmingen

Distributor

Friatec AG, Mannheim





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



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