



VIKING JOHNSON

World leaders in pipe joints and repair products

ULTRAGRIP

High tolerance product range with end restraint - ULTRAGRIP

Full range of high tolerance products with end restraint – can easily be converted to allow axial movement



The installer's choice!

- Product range supplied as standard with grippers to restrain axial loads
- Can be converted to a flex product by simply removing gripper segments
- Wide tolerance (up to 44mm on pipe OD – depending on size)
- One size per nominal bore, which joins virtually all pipes of the same nominal bore
- Reduced stocking levels and easier pipe repairs
- Ideal for connecting PE to grey cast iron pipes

Easy to fit

- Product supplied pre-assembled
- Captive non-rotating bolt heads requiring only one spanner to install
- Extended sleeve length allows easy positioning under difficult site conditions
- Quick and easy assembly on both top and bottom tolerance pipe
- Independent tightening of each end of the coupling with reversible bolt orientation to accommodate site conditions (size dependent)
- Grippers visible after installation to confirm end load restraint installed

Corrosion protection

- Coupling centre sleeve, flange adaptor body and end rings coated with thermoplastic polymer Rilsan Nylon 11
- Stainless steel bolts as standard on couplings, flange adaptors, reducing couplings and pecat adaptors

Pressure rating

Working pressure as detailed in table below:

Nominal Size	Gripping Product		Flex Product	
	Gas	Water	Gas	Water
DN50 to DN150	4bar	16bar	4bar	16bar
DN175 to DN300	4bar	10bar	4bar	16bar

NOTES:
Test pressure = 1.5 times working pressure.
Gripping product only suitable for below ground applications.

Gaskets

- EPDM (WRAS approved) for potable water application
- Dual (Nitrile) for combined potable water (KTW approved) and gas (DVGW approved) applications
- Ribbed gasket design ensures full sealing effect, even on scored, pitted or corroded pipe surfaces

Angular deflection

- Flange adaptor, end cap and pecat adaptor = up to 4°
- Coupling and reducing coupling = up to 8°
- Retains gripping effect even at full angular deflection

Pipe materials

- Gripping product works on the following pipe materials:
 - Steel/Ductile iron/Grey cast iron/PE/PVC
- Flex product works on the following pipe materials:
 - Steel/Ductile iron/Grey cast iron/PVC/Asbestos cement
- Ideal for PE to metal pipe transitions

Support liners – PE and PVC pipes

- A support liner is required when used on:
 - All PE pipes
 - Thin walled PVC pipes
- When used on thick walled PVC pipes a support liner is not required. (Contact Viking Johnson Marketing Department for further advice on this matter.)

Temperature range

- Operating temperature range -20°C to +30°C.



Gripping - restrain axial loads



Converts to flex - remove grippers

UltraGrip - Construction

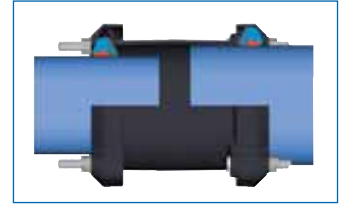
End Ring
(S.G. Iron)

Protected Components
End Ring:

- Fully encloses gasket, carrier and gripper
- Prevents trench material damaging plastic components

Carrier:

- Accommodates high tolerance on pipe OD (up to 44mm)



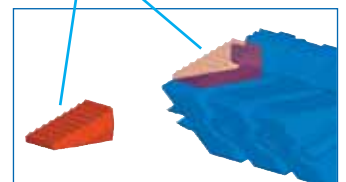
Note: Colour of carrier and gripper at the discretion of Viking Johnson

Unique Gripping Mechanism – Increasing with Pressure Gripper:

- One type for all pipe materials

Removable Gripper:

- Convert to flex product for axial movement



Captive Bolt:

- Non-rotating, allows use of single spanner to install
- Reversible orientation to accommodate site conditions (DN100 to DN300 - all products except flange adaptor)
- Bolt torque dependent on size and not on pipe material

Centre Sleeve
(S.G. Iron)

Unique UltraGrip Sealing Gasket:

- Ribbed design ensures full seal on scored, pitted and corroded pipes



Couplings

- One size per nominal bore
- Long sleeve for greater adjustment
- Up to 8° angular deflection

Reducing couplings

- True reducer from one nominal bore to another
- Up to 8° angular deflection

Flange adaptors

- Full flange sealing face, can be used on wafer-type butterfly valves
- Up to 4° angular deflection

Corrosion protection

- All cast components coated with thermoplastic polymer Rilsan Nylon 11
- Stainless steel bolts as standard, coated to prevent galling



UltraGrip End Caps



- End caps supplied as standard with grippers to restrain axial loads
- Optional – drilled and tapped bosses available:
 - In line and offset on invert of end cap to act as inlet/drainage point (Min=1/2", Max=2" – all sizes)
 - Vertical on barrel of end cap to act as air release/bleed hole (Min=1/2", Max=2" – depending on diameter)
- Up to 4° angular deflection

Corrosion protection

- End cap body and end ring coated with thermoplastic polymer Rilsan Nylon 11
- As standard end caps supplied with Sheraplex coated steel bolts to allow repeated use without the need to lubricate threads
- Stainless steel bolts available as option

UltraGrip Pecat Adaptors



- A mechanical transition fitting to join rigid metal pipe to PE
- Plain ended pipe connection offers normal UltraGrip features, including gripping
- Factory fitted connection between PE and UltraGrip end - ideal for gas industry
- Length of PE will accommodate two electrofusion connections
- Corrosion protection - as per Couplings, Reducing Couplings and Flange Adaptors
- Up to 4° angular deflection on UltraGrip end

Consult UltraGrip Technical Data Sheet for full details on product dimensions, weights, materials of construction, working pressures etc.



ISO 9001



ISO 14001

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CRANE

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For further information on all Viking Johnson products and services contact our Marketing Department.