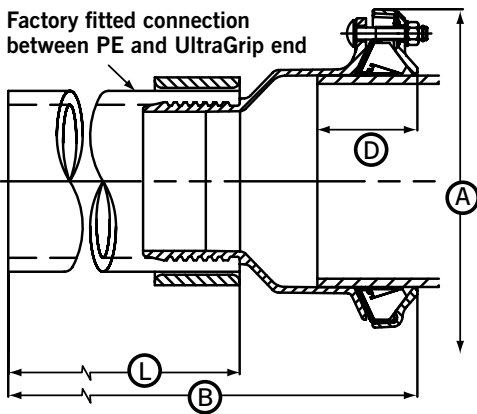


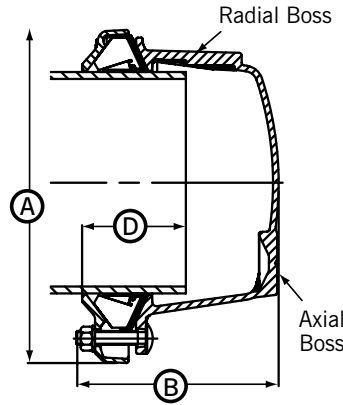
Next Generation UltraGrip Pecatadaptors & End Caps

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Pecatadaptor



End Cap



UltraGrip Pecatadaptors

| Nom Size | Size Range | | PE | | Insertion Depth (D) | | Dimensions | | | Bolts | | Weight (kg) |
|----------|------------|-------|------|-----|---------------------|-----|------------|-------------|-----|------------|------|-------------|
| | Min | Max | Size | Sdr | Min | Max | Overall | PE Pipe End | | Size | Type | |
| | | | | | | | A | B | L | | | |
| 80 | 85.7 | 107.0 | 90 | 11 | 65 | 95 | 212 | 682 | 496 | 3-M12 x 70 | HRH | 7.43 |
| 100 | 107.0 | 133.2 | 110 | 11 | 90 | 115 | 280 | 708 | 496 | 3-M16 x 93 | CSX | 12.23 |
| 100 | 107.0 | 133.2 | 125 | 11 | 90 | 115 | 280 | 701 | 496 | 3-M16 x 93 | CSX | 12.92 |
| 125 | 132.2 | 160.2 | 110 | 11 | 90 | 115 | 305 | 727 | 496 | 3-M16 x 93 | CSX | 13.84 |
| 125 | 132.2 | 160.2 | 125 | 11 | 90 | 115 | 305 | 721 | 496 | 3-M16 x 93 | CSX | 14.56 |
| 150 | 158.2 | 192.2 | 160 | 11 | 90 | 125 | 339 | 730 | 496 | 4-M16 x 93 | CSX | 20.7 |
| 150 | 158.2 | 192.2 | 180 | 11 | 90 | 125 | 339 | 727 | 496 | 4-M16 x 93 | CSX | 23.27 |
| 200 | 218.1 | 256.0 | 225 | 11 | 125 | 165 | 432 | 751 | 496 | 5-M16 x 93 | CSX | 36.22 |

UltraGrip End Caps

| Nom Size | Size Range | | Insertion Depth (D) | | Boss | | | | Dimensions | | Bolts | | Weight (kg) |
|----------|------------|-------|---------------------|-----|---------|---------|---------|---------|------------|-----|-------------|------|-------------|
| | Min | Max | Min | Max | Axial | | Radial | | A | B | No-size | Type | |
| | | | | | Min BSP | Max BSP | Min BSP | Max BSP | | | | | |
| 40 | 43.5 | 63.5 | 65 | 95 | 1/2" | 2" | 1/2" | 3/4" | 168 | 150 | 3-M12 x 70 | CSX | 3.34 |
| 65 | 63.0 | 83.7 | 65 | 95 | 1/2" | 2" | 1/2" | 3/4" | 189 | 150 | 3-M12 x 70 | CSX | 3.97 |
| 80 | 85.7 | 107.0 | 65 | 110 | 1/2" | 2" | 1/2" | 3/4" | 212 | 166 | 3-M12 x 70 | CSX | 4.84 |
| 100 | 107.0 | 133.2 | 90 | 125 | 1/2" | 2" | 1/2" | 1" | 280 | 197 | 3-M16 x 93 | CSX | 8.44 |
| 125 | 132.2 | 160.2 | 90 | 135 | 1/2" | 2" | 1/2" | 1" | 305 | 215 | 3-M16 x 93 | CSX | 10.12 |
| 150 | 158.2 | 192.2 | 90 | 135 | 1/2" | 2" | 1/2" | 1" | 339 | 219 | 4-M16 x 93 | CSX | 12.6 |
| 175 | 192.2 | 226.9 | 125 | 165 | 1/2" | 2" | 1/2" | 1" | 403 | 235 | 5-M16 x 93 | CSX | 19.54 |
| 200 | 218.1 | 256.0 | 125 | 165 | 1/2" | 2" | 1/2" | 1 1/2" | 432 | 237 | 5-M16 x 93 | CSX | 21.4 |
| 250 | 266.0 | 310.0 | 125 | 165 | 1/2" | 2" | 1/2" | 2" | 476 | 309 | 6-M16 x 120 | CSX | 32.46 |
| 300 | 315.0 | 356.0 | 125 | 200 | 1/2" | 2" | 1/2" | 2" | 522 | 310 | 8-M16 x 120 | CSX | 39.21 |

Working Pressure & Temperature Ratings

| Nominal Size | Gripping Product | | Flex Product | | Operating Temperature |
|----------------|------------------|--------|--------------|--------|-----------------------|
| | Gas | Water | Gas | Water | |
| DN40 to DN300 | 5 bar | 16 bar | 5 bar | 16 bar | -20°C to +30°C |
| DN350 to DN400 | 5 bar | 10 bar | 5 bar | 10 bar | |
| DN450 to DN600 | N/A | 10 bar | N/A | 10 bar | |

Notes:

- 1) Site Test Pressure – 1.5 times working pressure.
- 2) Factory Test Pressure – The minimum requirement in European Standards is 1.5 times working pressure plus 5 bar (e.g. 29 bar for 16 bar working pressure).
- 3) All water contact components are approved for use with Potable Water.

| Bolt Torque | |
|-------------|-----------|
| | Nm |
| M12 | 55 - 70 |
| M16 | 95 - 120 |
| M20 | 210 - 230 |

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.

Next Generation UltraGrip Pecatadaptors & End Caps

Datasheet

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Technical Information

Gripping product suitable for

Steel / Ductile iron / Grey cast iron / PE / PVC

Flex product suitable for

Steel / Ductile iron / Grey cast iron / PVC / Asbestos cement

Angularity

Pecatadaptor 4°

End Cap 4°

Support liners – PE and PVC pipes

A close fit 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. Please contact Viking Johnson for further details.

Pecatadaptors length of PE accommodates:

- 2 Electrofusion connections

End Cap Optional - drilled & tapped bosses available:

- Axial – to act as inlet/drainage point (Min=1/2", Max=2" - all sizes)
- Radial – to act as air release/bleed hole (Min=1/2", Max=2" - depending on diameter)

End Cap Bolts

Sheraplex coated steel bolts to allow repeated use without the need to lubricate threads. Stainless steel bolts are optional.

Use of restrained couplings on exposed pipework

Above ground exposed pipework is subject to both loads from the internal pressure and those from temperature changes / thermal expansion, which can be substantially higher than those from internal pressure and cannot always be safely determined. For this reason it is recommended that the use of UltraGrip be restricted to buried pipelines, valve chambers and above ground indoor applications and not exposed to direct sunlight or excessive temperature changes (e.g. pump houses).

Approvals

The following water contact materials used in UltraGrip are approved for use with potable water:-

Rilsan Nylon 11:

- WRAS, KIWA, AS/NZS 4020

Gasket (EPDM):

- WRAS, KTW, DVGW, W270, KIWA & AS/NZS 4020

In addition to the above, UltraGrip range as a finished product has KIWA certification verifying that the above products comply with the requirements of the Water Supply (Water Fittings) Regulations for England and Wales 1999, the Water Byelaws 2000, Scotland and the Water Regulations Northern Ireland.

Gasket (Nitrile):

- DVGW Approved

DN40 to DN600 UltraGrip has been independently tested by BSI to confirm it meets the requirements of BS EN 14525 (VC 673979).

Materials & Relevant Standards

End Rings & Centre Sleeve

S.G. Iron to BS EN 1563 Symbol EN-GJS-450-10

Completion Sleeve to Pecatadaptor

Mild Steel Tube to DIN1629 Grade ST52 or ST37-2

Gasket

EPDM Compound Grade E to BS EN 681-1

Nitrile Compound to Grade G BS EN 682, Type G

Coatings

Cast/Metal Components:

- Rilsan Nylon 11 (Black)

Bolts:

- Pecatadaptors: Delta Seal GZ - Silver
- End Caps: Sheraplex to WIS 4-52-03

Nuts:

- Delta Seal GZ - Silver

Gripper & Carrier

Acetal Copolymer Grade M25 or equivalent

Bolts

Standard - Stainless steel to BS EN 3506-1 Grade A2 Property Class 80 or 70

Option - Stainless steel to BS EN ISO 3506-1 Grade A4 Property Class 50

Nuts

Stainless Steel to BS EN 3506-2 Grade A4 Property Class 80

Washers

Stainless steel – BS1449:PT2 Grade 304 S15

Grit to Gripper

Corundum - aluminium oxide with a chemical composition of Al_2O_3 and a hexagonal crystal structure (rock-forming mineral that is found in igneous, metamorphic, and sedimentary rocks).

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