

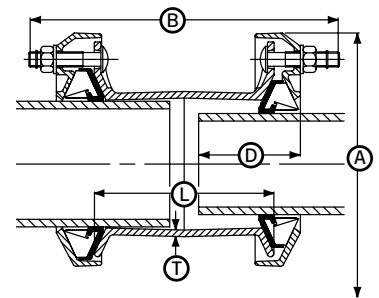
# Next Generation UltraGrip Couplings

## Specifications

### Couplings

► Up to 8° angular deflection

Nom Size	Size Range		Insertion Depth (D)		Dimensions				Bolts		Weight Kg
	Min	Max	Min	Max	Overall		Sleeve		No-size	Type	
40	43.5	63.5	65	95	168	262	144	7.0	6-M12x70	HRH	5.76
50	48.0	71.0	65	110	178	296	180	5.0	6-M12x70	CSX	6.13
65	63.0	83.7	65	95	189	262	144	7.0	6-M12x70	HRH	6.86
80	85.7	107.0	65	110	212	288	170	7.0	6-M12x70	HRH	8.54
100	107.0	133.2	90	125	280	342	180	7.0	6-M16x93	CSX	13.57
125	132.2	160.2	90	125	305	342	180	6.0	6-M16x93	CSX	14.51
150	158.2	192.2	90	135	339	386	213	6.5	8-M16x93	CSX	20.22
175	192.2	226.9	125	165	403	400	220	6.5	10-M16x93	CSX	33.22
200	218.1	256.0	125	165	432	400	220	6.5	10-M16x93	CSX	35.48
250	266.2	310.0	125	165	476	524	300	8.0	12-M16x120	CSX	52.88
300	315.0	356.0	125	200	522	524	300	8.0	16-M16x120	CSX	63.8
350	352.2	396.0	125	200	577	525	300	7.5	18-M16x120	CSX	74.58
400	398.2	442.0	125	200	623	525	300	7.5	20-M16x120	CSX	82.88
450	448.0	492.0	135	215	713	545	300	7.5	24-M16 x 150	HRH	139.03
500	498.0	552.0	155	215	803	565	300	7.5	18-M20 x 150	HRH	160.42
500	558.0	608.0	155	215	860	565	300	7.5	20-M20 x 150	HRH	175.02
600	604.0	648.0	195	255	900	565	300	7.5	24-M20 x 150	HRH	240.01
600	676.0	726.0	195	255	975	565	300	7.5	28-M20 x 150	HRH	267.38



### Working Pressure & Temperature Ratings

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

#### 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 5bar (e.g. 29bar for 16bar working pressure), but in many cases Viking Johnson reaches substantially higher levels – up to 36bar.
- 3) All water contact components are approved for use with Potable Water.

Bolt Torque	
	Nm
<b>M12</b>	55 - 70
<b>M16</b>	95 - 120
<b>M20</b>	200 - 225

### UltraGrip Product Notes

#### 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

#### 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.

#### 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).

### Materials & Relevant Standards

#### End Rings, Sleeve

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

#### Gaskets

**EPDM:** EPDM Compound Grade E to BS EN 681-1 WA KTW & DVGW approved

**NBR:** Nitrile Compound EN682 DVGW Approved

#### Gripper and Carrier

Acetal Copolymer Grade M25 or equivalent

#### Bolts/Nuts/Washers

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

**Nuts** - Stainless Steel to BS EN 3506-2 Grade A4 Property Class 80 Steel to BS EN 20898-2 Property Class 8.0

**Washer** - Stainless steel – BS1449:PT2 Grade 304 S15

#### Coatings

**Cast/Metal Components** - Rilsan Nylon 11 (Black)

**Bolts** - Dry Film Lubricant

**Nuts** - Dacromet coated

#### Approvals

**Rilsan Nylon 11 (Black):**

WRAS approved for use with potable water

Gasket: WRAS as well as KTW, DVGW & W270 approvals

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