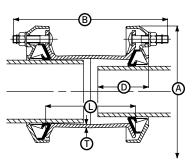
Next Generation UltraGrip Couplings

Specifications

Couplings

Up to 8° angular deflection

Nom Size	Size Range		Insertion Depth (D)		Dimensions				Dalla		
					Overall		Sleeve		Boits		Weight Kg
	Min	Max	Min	Max	Α	В	L	Т	No-size	Туре	
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 140	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
	40 50 65 80 100 125 150 175 200 250 300 350 400 450 500 600	Min 40 43.5 50 48.0 65 63.0 80 85.7 100 107.0 125 132.2 150 158.2 175 192.2 200 218.1 250 266.2 300 315.0 350 352.2 400 398.2 450 448.0 500 498.0 500 558.0 600 604.0	Min Max 40 43.5 63.5 50 48.0 71.0 65 63.0 83.7 80 85.7 107.0 100 107.0 133.2 125 132.2 160.2 150 158.2 192.2 200 218.1 256.0 250 266.2 310.0 300 315.0 356.0 350 352.2 396.0 400 398.2 442.0 450 448.0 492.0 500 498.0 552.0 500 558.0 608.0 600 604.0 648.0	Min Max Min 40 43.5 63.5 65 50 48.0 71.0 65 65 63.0 83.7 65 80 85.7 107.0 65 100 107.0 133.2 90 125 132.2 160.2 90 150 158.2 192.2 90 175 192.2 226.9 125 200 218.1 256.0 125 300 315.0 356.0 125 350 352.2 396.0 125 400 398.2 442.0 125 450 448.0 492.0 135 500 498.0 552.0 155 500 558.0 608.0 155 600 604.0 648.0 195	Min Max Min Max 40 43.5 63.5 65 95 50 48.0 71.0 65 110 65 63.0 83.7 65 95 80 85.7 107.0 65 110 100 107.0 133.2 90 125 125 132.2 160.2 90 125 150 158.2 192.2 90 135 175 192.2 226.9 125 165 200 218.1 256.0 125 165 250 266.2 310.0 125 165 300 315.0 356.0 125 200 350 352.2 396.0 125 200 400 398.2 442.0 125 200 450 448.0 492.0 135 215 500 558.0 608.0 155 215 500 <td< td=""><td>Nom Size Min Max Min Max A 40 43.5 63.5 65 95 168 50 48.0 71.0 65 110 178 65 63.0 83.7 65 95 189 80 85.7 107.0 65 110 212 100 107.0 133.2 90 125 280 125 132.2 160.2 90 125 305 150 158.2 192.2 90 135 339 175 192.2 226.9 125 165 403 200 218.1 256.0 125 165 432 250 266.2 310.0 125 165 476 300 315.0 356.0 125 200 522 350 352.2 396.0 125 200 577 400 398.2 442.0 125 200 <</td><td>Nom Size Min Max Min Max A B 40 43.5 63.5 65 95 168 262 50 48.0 71.0 65 110 178 296 65 63.0 83.7 65 95 189 262 80 85.7 107.0 65 110 212 288 100 107.0 133.2 90 125 280 342 125 132.2 160.2 90 125 305 342 150 158.2 192.2 90 135 339 386 175 192.2 226.9 125 165 403 400 200 218.1 256.0 125 165 432 400 250 266.2 310.0 125 165 476 524 300 315.0 356.0 125 200 522 524 350<td>Nom Size Min Max Min Max A B L 40 43.5 63.5 65 95 168 262 144 50 48.0 71.0 65 110 178 296 180 65 63.0 83.7 65 95 189 262 144 80 85.7 107.0 65 110 212 288 170 100 107.0 133.2 90 125 280 342 180 125 132.2 160.2 90 125 305 342 180 150 158.2 192.2 90 135 339 386 213 175 192.2 226.9 125 165 403 400 220 200 218.1 256.0 125 165 432 400 220 250 266.2 310.0 125 20 522 524</td><td>Mom Size Min Max Min Max A B L T 40 43.5 63.5 65 95 168 262 144 7.0 50 48.0 71.0 65 110 178 296 180 5.0 65 63.0 83.7 65 95 189 262 144 7.0 80 85.7 107.0 65 110 212 288 170 7.0 100 107.0 133.2 90 125 280 342 180 7.0 125 132.2 160.2 90 125 305 342 180 6.0 150 158.2 192.2 90 135 339 386 213 6.5 175 192.2 226.9 125 165 403 400 220 6.5 200 218.1 256.0 125 165 432 400</td><td>Nom Size Min Max Min Max Min Max A B L T No-size 40 43.5 63.5 65 95 168 262 144 7.0 6-M12x70 50 48.0 71.0 65 110 178 296 180 5.0 6-M12x70 65 63.0 83.7 65 95 189 262 144 7.0 6-M12x70 80 85.7 107.0 65 110 212 288 170 7.0 6-M12x70 100 107.0 133.2 90 125 280 342 180 7.0 6-M16x93 125 132.2 160.2 90 125 305 342 180 6.0 6-M16x93 150 158.2 192.2 90 135 339 386 213 6.5 8-M16x93 175 192.2 226.9 125 165</td><td>Nom Size Min Max Min Max A B L T No-size Type 40 43.5 63.5 65 95 168 262 144 7.0 6-M12x70 HRH 50 48.0 71.0 65 110 178 296 180 5.0 6-M12x70 CSX 65 63.0 83.7 65 95 189 262 144 7.0 6-M12x70 HRH 80 85.7 107.0 65 110 212 288 170 7.0 6-M12x70 HRH 100 107.0 133.2 90 125 280 342 180 7.0 6-M16x93 CSX 125 132.2 160.2 90 125 305 342 180 6.0 6-M16x93 CSX 158.2 192.2 290 135 339 386 213 6.5 8-M16x93 CSX <t< td=""></t<></td></td></td<>	Nom Size Min Max Min Max A 40 43.5 63.5 65 95 168 50 48.0 71.0 65 110 178 65 63.0 83.7 65 95 189 80 85.7 107.0 65 110 212 100 107.0 133.2 90 125 280 125 132.2 160.2 90 125 305 150 158.2 192.2 90 135 339 175 192.2 226.9 125 165 403 200 218.1 256.0 125 165 432 250 266.2 310.0 125 165 476 300 315.0 356.0 125 200 522 350 352.2 396.0 125 200 577 400 398.2 442.0 125 200 <	Nom Size Min Max Min Max A B 40 43.5 63.5 65 95 168 262 50 48.0 71.0 65 110 178 296 65 63.0 83.7 65 95 189 262 80 85.7 107.0 65 110 212 288 100 107.0 133.2 90 125 280 342 125 132.2 160.2 90 125 305 342 150 158.2 192.2 90 135 339 386 175 192.2 226.9 125 165 403 400 200 218.1 256.0 125 165 432 400 250 266.2 310.0 125 165 476 524 300 315.0 356.0 125 200 522 524 350 <td>Nom Size Min Max Min Max A B L 40 43.5 63.5 65 95 168 262 144 50 48.0 71.0 65 110 178 296 180 65 63.0 83.7 65 95 189 262 144 80 85.7 107.0 65 110 212 288 170 100 107.0 133.2 90 125 280 342 180 125 132.2 160.2 90 125 305 342 180 150 158.2 192.2 90 135 339 386 213 175 192.2 226.9 125 165 403 400 220 200 218.1 256.0 125 165 432 400 220 250 266.2 310.0 125 20 522 524</td> <td>Mom Size Min Max Min Max A B L T 40 43.5 63.5 65 95 168 262 144 7.0 50 48.0 71.0 65 110 178 296 180 5.0 65 63.0 83.7 65 95 189 262 144 7.0 80 85.7 107.0 65 110 212 288 170 7.0 100 107.0 133.2 90 125 280 342 180 7.0 125 132.2 160.2 90 125 305 342 180 6.0 150 158.2 192.2 90 135 339 386 213 6.5 175 192.2 226.9 125 165 403 400 220 6.5 200 218.1 256.0 125 165 432 400</td> <td>Nom Size Min Max Min Max Min Max A B L T No-size 40 43.5 63.5 65 95 168 262 144 7.0 6-M12x70 50 48.0 71.0 65 110 178 296 180 5.0 6-M12x70 65 63.0 83.7 65 95 189 262 144 7.0 6-M12x70 80 85.7 107.0 65 110 212 288 170 7.0 6-M12x70 100 107.0 133.2 90 125 280 342 180 7.0 6-M16x93 125 132.2 160.2 90 125 305 342 180 6.0 6-M16x93 150 158.2 192.2 90 135 339 386 213 6.5 8-M16x93 175 192.2 226.9 125 165</td> <td>Nom Size Min Max Min Max A B L T No-size Type 40 43.5 63.5 65 95 168 262 144 7.0 6-M12x70 HRH 50 48.0 71.0 65 110 178 296 180 5.0 6-M12x70 CSX 65 63.0 83.7 65 95 189 262 144 7.0 6-M12x70 HRH 80 85.7 107.0 65 110 212 288 170 7.0 6-M12x70 HRH 100 107.0 133.2 90 125 280 342 180 7.0 6-M16x93 CSX 125 132.2 160.2 90 125 305 342 180 6.0 6-M16x93 CSX 158.2 192.2 290 135 339 386 213 6.5 8-M16x93 CSX <t< td=""></t<></td>	Nom Size Min Max Min Max A B L 40 43.5 63.5 65 95 168 262 144 50 48.0 71.0 65 110 178 296 180 65 63.0 83.7 65 95 189 262 144 80 85.7 107.0 65 110 212 288 170 100 107.0 133.2 90 125 280 342 180 125 132.2 160.2 90 125 305 342 180 150 158.2 192.2 90 135 339 386 213 175 192.2 226.9 125 165 403 400 220 200 218.1 256.0 125 165 432 400 220 250 266.2 310.0 125 20 522 524	Mom Size Min Max Min Max A B L T 40 43.5 63.5 65 95 168 262 144 7.0 50 48.0 71.0 65 110 178 296 180 5.0 65 63.0 83.7 65 95 189 262 144 7.0 80 85.7 107.0 65 110 212 288 170 7.0 100 107.0 133.2 90 125 280 342 180 7.0 125 132.2 160.2 90 125 305 342 180 6.0 150 158.2 192.2 90 135 339 386 213 6.5 175 192.2 226.9 125 165 403 400 220 6.5 200 218.1 256.0 125 165 432 400	Nom Size Min Max Min Max Min Max A B L T No-size 40 43.5 63.5 65 95 168 262 144 7.0 6-M12x70 50 48.0 71.0 65 110 178 296 180 5.0 6-M12x70 65 63.0 83.7 65 95 189 262 144 7.0 6-M12x70 80 85.7 107.0 65 110 212 288 170 7.0 6-M12x70 100 107.0 133.2 90 125 280 342 180 7.0 6-M16x93 125 132.2 160.2 90 125 305 342 180 6.0 6-M16x93 150 158.2 192.2 90 135 339 386 213 6.5 8-M16x93 175 192.2 226.9 125 165	Nom Size Min Max Min Max A B L T No-size Type 40 43.5 63.5 65 95 168 262 144 7.0 6-M12x70 HRH 50 48.0 71.0 65 110 178 296 180 5.0 6-M12x70 CSX 65 63.0 83.7 65 95 189 262 144 7.0 6-M12x70 HRH 80 85.7 107.0 65 110 212 288 170 7.0 6-M12x70 HRH 100 107.0 133.2 90 125 280 342 180 7.0 6-M16x93 CSX 125 132.2 160.2 90 125 305 342 180 6.0 6-M16x93 CSX 158.2 192.2 290 135 339 386 213 6.5 8-M16x93 CSX <t< td=""></t<>



Working Pressure & Temperature Ratings

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

Notes:

- 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).
- All water contact components are approved for use with

temperature changes (e.g. pump houses).

Bolt Torque			
	Nm		
M12	55 - 70		
M16	95 - 120		
M20	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.

Materials & Relevant Standards

End Rings, Sleeve

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

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

Washer - Stainless steel - BS1449:PT2 Grade 304 S15

Coatings

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

Cast/Metal Components - Rilsan Nylon 11 (Black) Bolts - Gleitmo Coated (Dry Film Lubricant)

Nuts - Geomet Coated

Approvals

Rilsan Nylon 11 (Black): WRAS approved for use with potable water Gasket: WRAS as well as KTW, DVGW & W270 approvals

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.

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