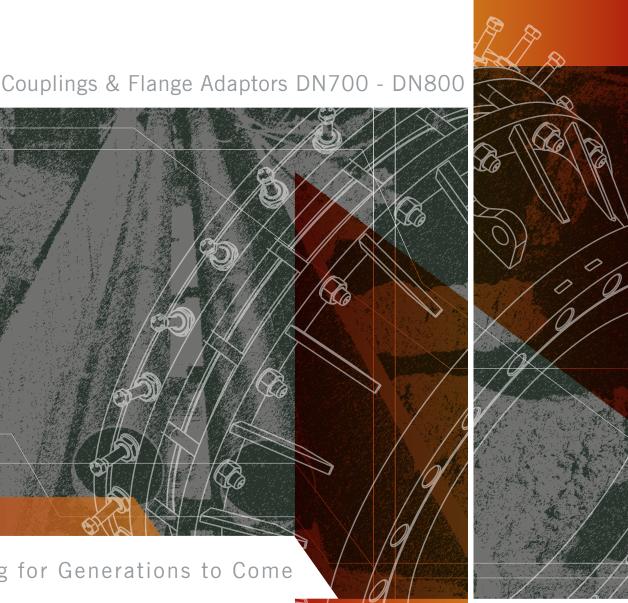


Performing for Generations to Come







UltraGrip[®]

Performing for Generations to Come

800 M6988 P12



UltraGrip[®]

DN700 - DN800

Climate change is reshaping how Utilities operate

Adapting to Environmental Extremes

Many utilities around the world are finding a need to transport water over longer distances, and especially from regions with a surplus to drought stricken ones.

Consequently, the industry has sort more cost effective pipeline designs that utilise larger sizes and higher pressure ratings, with 16 bar becoming the standard working pressure across their networks.



A Perfect Partner for Infrastructure & Repairs

Helden, is a trusted industry name, with a rich history, dating back to the 1930's and internationally recognised for the design and manufacture of large diameter restrained couplings and flange adaptors.

The extension to the proven UltraGrip range of wide tolerance restrained fittings now includes DN700 and DN800 sizes, which are ideal for new lay and large scale infrastructure projects.

Helden has made specification easy across the UltraGrip Amplified range, where all adaptors and couplings are rated 16 bar, plus there is a full set of 2D and 3D CAD and BIM models.

UltraGrip Coupling



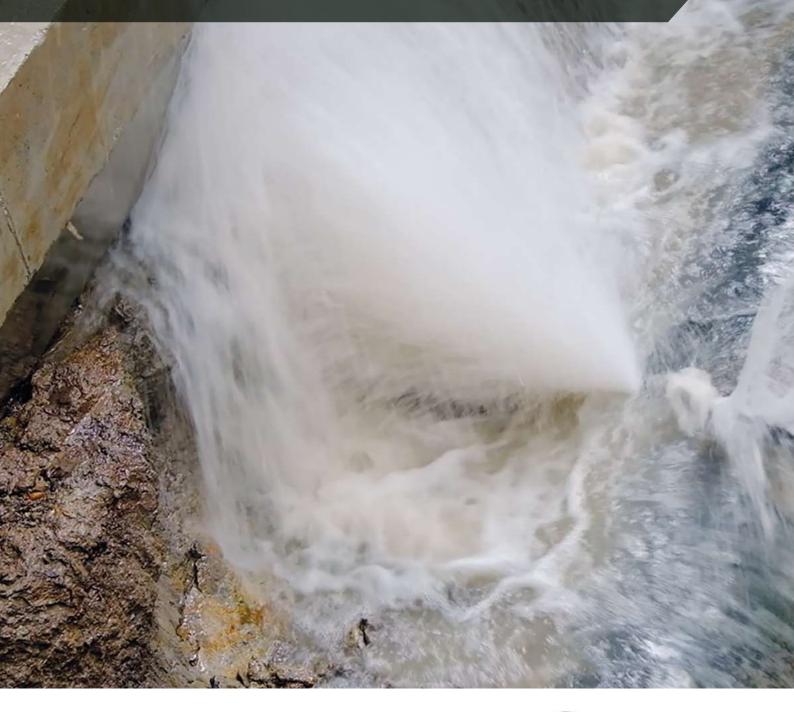
UltraGrip Flange Adaptor

IEIEE

3



Upsized for the challenges ahead



Unique Restraining System

The UltraGrip restraint system is equipped with a unique sealing and gripping technology that allows water utilities contractors to repair pipelines faster, without the need for external restraints, like for example thrust blocks.



Advanced grip and seal technology





Dedicated Gasket Design

UltraGrip DN700 & 800 has adapted a proven, high performance wide tolerance gasket technology which provides maximum sealing pressure, even on scored, pitted and corroded pipe

surfaces. It is a gasket technology which Helden has been using in their products, for the water industry since the 1980's with over 9 million units sold.



Versatile Fittings

UltraGrip is the perfect choice for water and wastewater applications for projects below or above ground? It is the ideal solution for joining diverse pipe materials such as Ductile Iron, Cast Iron, Steel, PE, MOPVC and Asbestos Cement.



Wide Tolerance

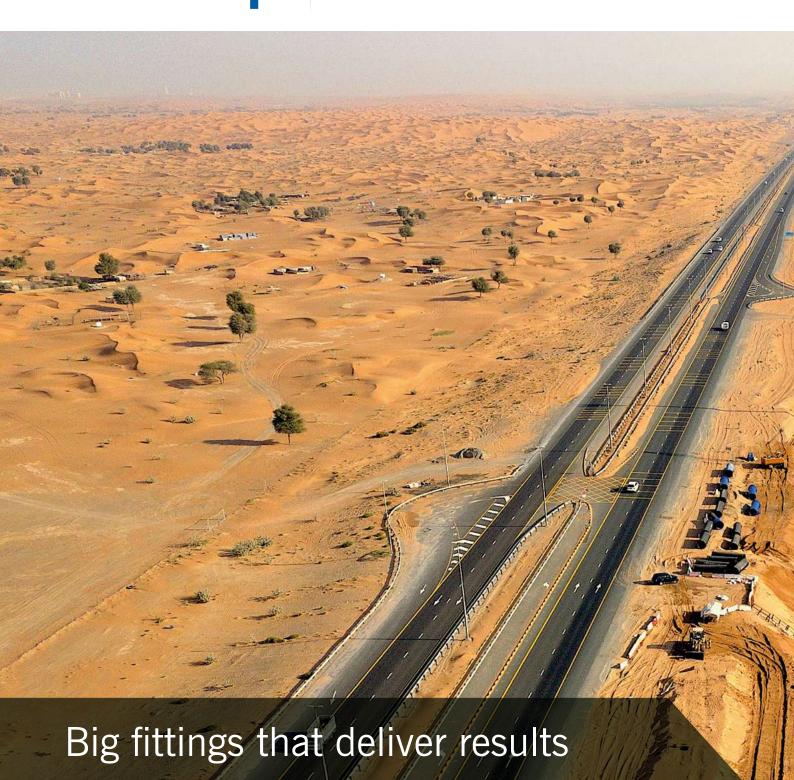
When pipes are distorted or out of round the UltraGrip's market leading 35mm tolerance provides more clearance to ensure a simple connection. The fitting can accommodate pipe distortion within the manufacturing tolerances and connects both the spigot end and mid barrel ductile iron pipe in one fitting as well as both class AB and CD cast iron.



Accommodates pipe distortion

*UltraGrip can be used in above ground applications, where it is not exposed to direct sunlight, and falls within the 40 degrees operating temperature range (between -20 and +60).

UltraGrip[®] DN700 - DN800



For Peace of Mind

UltraGrip offers 4° angularity at each end covering the entire range including top and bottom tolerance. This feature eliminates the need for installers to measure the pipe to calculate the allowable angularity.

It also offers benefits on the design of new pipe networks as bends can be designed into the pipeline without use of specialist fittings and offers flexibility on installation covering pipe misalignment.

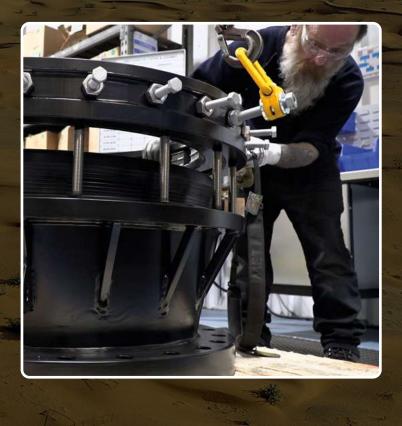




Ease of Installation

UltraGrip is easy to install on site even in narrow trenches. Installation is made simple with lifting eyes added for ease of manoeuvrability. The product is preassembled to allow for quick positioning over the top and bottom tolerance pipe with captive studs requiring only a single spanner for tightening when dealing with tricky site conditions.

Plus after installation there is no requirement to re-torque or to revisit after initial bolt up.



Exceptional Versatility for Large Scale Infrastructure Projects

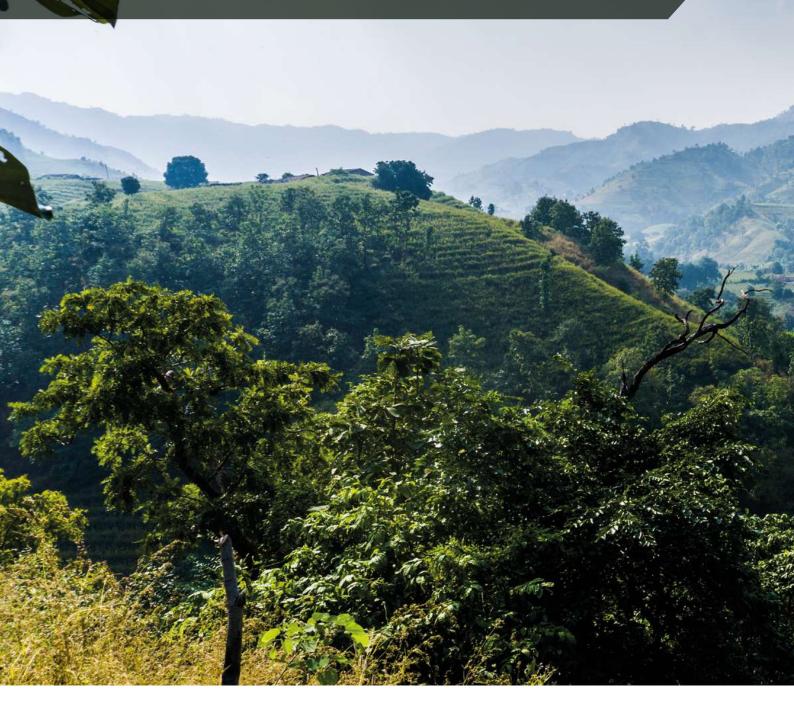




4° Angularity across the range at both ends



Focused on sustainability



A Renewable Resource

All UltraGrip lines are coated in Rilsan Nylon, a bio sourced coating, manufactured from a renewable raw material of castor seeds, that grows easily in semi-arid regions, causing no deforestation and not competing with food production, making it a truly renewable material.







A Unique Bio Coating

Rilsan® powder coatings have been used in the water industry since 1967. It is a unique, high performance polyamide providing the highest degree of corrosion protection for metal parts whilst being compliant with the most demanding drinking water regulations (WRAS, KIWA etc.).

Selected not only for the coating's excellent protection against corrosion it also withstands rough high levels of deformation making it ideal for products that flex during bolt up.



Castor Scholarships

In 2022 Arkema awarded the Company one of the first Castor Scholarships as a selected global customer with a strong commitment to sustainability.



Biodegradable Protective Packaging

Protective caps have been introduced to keep the fitting clean and free from any contamination. The caps are made of biodegradable material to minimise impact to the environment and ensure fittings are clean and ready for use on potable water applications.

DN700 - DN800

Focused on sustainability

Reducing Our Carbon Footprint

UltraGrip

One of the core values within Crane Co. businesses is the elimination of waste throughout the organisation.

The Company also has a structured cadence and process to manage and measure progress of sustainability initiatives.

2030 Targets





Source Materials

UltraGrip is manufactured from 80% recycled steel. Utilising recycled steel uses up to 75% less energy than producing new fittings, from fresh raw materials and reduces waste by not having to extract minerals from the ground.



Concrete Removal

A key ingredient of concrete thrust block manufacturing is Cement which contributes up to 8% of global CO_2 emissions. UltraGrip minimises the need for thrust blocks because the enhanced gripping design accommodates end load forces from the internal pressure within pipelines.

Long Life Protection

UltraGrip has a 50 year design life expectancy which helps meet global climate targets in reducing carbon emissions. This minimises manufacturing, shipping, installation and repairs ensuring a better life style for generations to come.



Reduce Stock Holding

Stock holding can be kept to a minimum with careful placement of the tolerance range to cover core pipe materials.



UltraGrip®

Product Design Benefits



Cost Effective Pipelines

UltraGrip restraint system is equipped with a unique gripping technology that allows consulting engineers to design more cost effective pipelines, without the need for external restraints, like for example thrust blocks.

Long Term Performance

Product is third party accredited to BS8561:2021 which ensures end user confidence. When used on polyethylene pipe the product achieves a Type 2 end load performance as defined in WIS 4-24-01 and ISO 17855.

Higher Pressures

16 bar product as standard, to support the growing requirement for higher operating pressure pipe networks.

Simple to Fit

Supplied with captive studs, these can be bolted up by a technician using a single spanner making UltraGrip ideal for use in all trench conditions. Plus there is no requirement to re-torque or revisit after initial bolt-up.

Increased Flexibility

4° angularity at each end allows bends to be designed into pipe networks and to join misaligned pipes in the ground.





50 Year Design Life

Along with extensive long term testing, and high performance gasket, the stainless steel bolts coated with dry film lubricant provide excellent corrosion resistance against degradation and maximises the longevity of the product.

DN700 - DN800



No Leakages

A proven, high performance wide tolerance, EPDM gasket technology which Helden has been using in their products for the water industry over the last 40 years.



Connects Various Pipe Materials

A 35mm tolerance ensures one size fits multiple pipe materials, and designed to allow for use on out of round and out of specification pipe.

Simple Repairs

Large setting gaps allow operative bigger tolerances for cutting and positioning pipes making it quicker and easier when undertaking repairs.

Ease of Handling

Installation made simple with incorporated lifting eyes for ease of manoeuvrability.



Working Pressure & Temperature Ratings

Nominal Size	Gripping	Product	Flex P	roduct	Operating
Nominal Size	Gas	Water	Gas	Water	Temperature
DN700	N/A	16 bar	N/A	16 bar	-20 to +60
DN800	N/A	16 bar	N/A	16 bar	-2010+60



DN700 - DN800

Exhaustive testing & accreditations

Extensive Testing & Quality Endorsements

Helden products undergo vigorous testing regimes to ensure a long life, these includes finite element analysis (ANSYS) as well as extensive testing witnessed by third party test houses to verify compliance with the long term testing as defined in BS8561:2021, when used on Ductile Iron, Steel, PE, MOPVC, Cast Iron, and Asbestos Cement. For PE UltraGrip fittings also achieve an axial end load equivalent of a Type 2 performance as defined and tested by IGN 4-01-02:2017. In addition, the performance has been validated through extensive physical testing, including hydrostatic, pull-out, leak tightness, strength and resistance to distortion tests. Furthermore, pressure tests with shear load have been carried out on grooved pipe, to simulate typical corrosion and ground loading found in old pipelines.

Also the products can mobilise restraint and seal effectively in all situations, giving installers and end users confidence the products will perform.





As part of the development of the UltraGrip range and for an enhanced customer experience, Helden has invested in a new Demonstration Centre.

The Centre enables simulations of real trench like conditions whilst testing product under pressure with both tensile and hydrostatic assessments. All the water used in these tests is provided by a sustainable rainwater harvesting system.

So, customers, contractors and technicians wishing to learn more about UltraGrip, can visit the Centre, view and handle the product whilst receiving essential hands on training.



UltraGrip is compliant with the industry standards as confirmed with WRc certification, which offers peace of mind and verifies the 50 years design life expectancy.

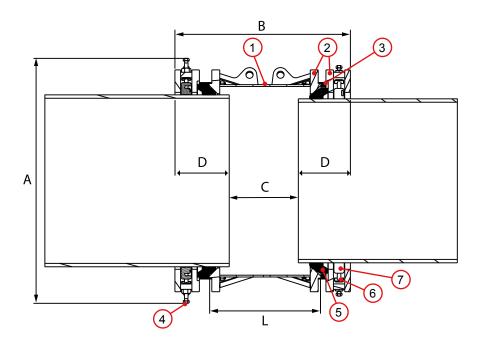
All water contact materials used in UltraGrip are approved for use with potable water; the gaskets are WRAS approved and the Rilsan Nylon coating has both WRAS and DWI certification.



UltraGrip[®]

Datasheet 1/2

Couplings



Key

- 1 = Centre Sleeve
- 2 = End Ring
- 3= Studs
- 4 = Bolt, Nut & Washer
- 5 = Gasket
- 6 = Square Bush Nut
- 7 = Gripper



HAZARD WARNING: Lifting lugs, where provided, are designed/tested for lifting only the components to which they are attached. Failure to follow these instructions could result in property damage, serious personal injury or death. The maximum safe working load of the lifting eye is equal to the product weight.

Couplings

	Size I	Range	Insertio	n Depth	Settin	g Gap	Di	mensions (m	m)	Fact	eners		
Nom Size	(m	m)	(D) (mm)	(C) (mm)	Ove	erall	Sleeve	Гази	ellers	Weight	
Nom Size	Min	Max	Min	Max	Min	Max	А	В	L	Axial Stud No-size	Radial Bolt No-size	(kg)	
700	700	735	220	325	165	375	1085	815	495	32 x M20	48 x M16	559	
700	727	762	220	325	165	375	1115	815	495	32 x M20	64 x M16	591	
700	750	785	220	325	165	375	1135	815	495	32 x M20	48 x M16	592	
800	789	824	220	325	170	380	1175	820	500	36 x M20	60 x M16	638	
800	825	860	220	325	170	380	1210	820	500	36 x M20	80 x M16	684	
800	853	888	220	325	170	380	1240	820	500	36 x M20	60 x M16	680	

Connections based on standard pipe OD's*

Nom	Rai	nge	Ductile	PE /	Steel / FBE Coated	Cast	Asbestos
Size	Min	Max	Iron	MOPVC	Steel	Iron	Cement
DN700	700	735		710mm	DN700	26" (AB & CD)	26" (AB & CD)
DN700	727	762	DN700			27" (AB & CD)	27" (AB & CD)
DN700	750	785			DN750	28" (AB & CD)	28" (AB & CD)
DN800	789	824		800mm	DN800	30" (AB)	30" (AB)
DN800	825	860	DN800				
DN800	853	888				32" (AB & CD)	32" (AB & CD)

 $^{\star}\mbox{The above table is for guidance only, please ensure the OD and material of the pipe is compatible before installation$

Working Pressure & Temperature Ratings

Nominal Size	Gripping	Product	Flex P	roduct	Operating
Nominal Size	Gas	Water	Gas	Water	Temperature
DN700	N/A	16 bar	N/A	16 bar	-20 to +60
DN800	N/A	16 bar	N/A	16 bar	-20 10 +60

Pipe Materials



UltraGrip

Couplings

Working pressure rating:

Water: DN700 to DN800 = 16 bar Gas: Not approved

Site test pressure:

1.5 times working pressure

Angularity

Couplings 8°, +/- 4° angularity on each side

Gripping product suitable for

Ductile iron / PE (PE100, SDR 11, 17, 21, 26) Steel / Cast iron / MOPVC (SDR 33)

Flex product suitable for

Ductile Iron / PE (PE100, SDR 11, 17, 21, 26) Steel / Cast Iron / MOPVC / Asbestos Cement

Bolt Torque	Recommended Bolt Torque (Nm) on every bolt									
	Bolt Size	Ductile Iron	PE-100	Steel & Cast Iron	MOPVC					
Axial Fastener (For Gasket Engagement)	M20	190-210	190-210	190-210	190-210					
Radial Fastener (For Grippers)	M16	175-185	140-150	110-120	95-105					

For the full installation details and to ensure correct fitting, please refer to the Ultragrip DN700 DN800 installation instructions.

Temperature rating of product

Operating temperature -20°C to +60°C

DN700 - DN800

Technical Information

Support liners - PE and MOPVC pipes

A close fit Helden support liner is required when used on:

- ► All PE pipes
- MOPVC pipes

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. UltraGrip can be used in above ground applications, where it is not exposed to direct sunlight, and falls within the 40°C operating temperature range (between -20°C and +60°C).

Approvals

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

Rilsan Nylon 11:

> WRAS, AS/NZS 4020, DVGW, W270, ACS & KIWA

Gasket (EPDM):

► WRAS, W270

Finished Product:

BS8561; WRc certification verifying that the product complies with BS8561 (Specification for mechanical fittings for use in the repair, connection and renovation of pressurized water supply pipelines — Requirements and test methods).

Polyethylene Pipe Pull Out Performance; WRc certification confirming on PE a Type 2 end load performance (defined in IGN 4-01-02:2017 [N3]) when tested in accordance with the method given in BS EN ISO 3501.

Materials & Relevant Standards

1) End Rings 2) Centre Sleeve

Mild steel to BS EN10025 Grade S355

3) Studs

Stainless steel – BS EN ISO 3506-1 Grade A4-80

4) Bolts

Stainless steel to BS EN ISO 3506-1 Grade A4-80

4) Nuts

Stainless steel – BS1449:PT2 ISO 3506-1 Grade A4-80

4) Washers

Stainless steel – BS1449:PT2 ISO 3506-1 Grade A4-50

5) Gasket

EPDM to BS EN 681-1

6) Square Bush Nut

Cast stainless steel to ASTM A487/A487M-21, Grade CA6NM Class A

7) Gripper

Stainless steel (Cast) PH 17-4 H925 to BS EN 10088-1

Retention Insert

Nylon 6

Coatings

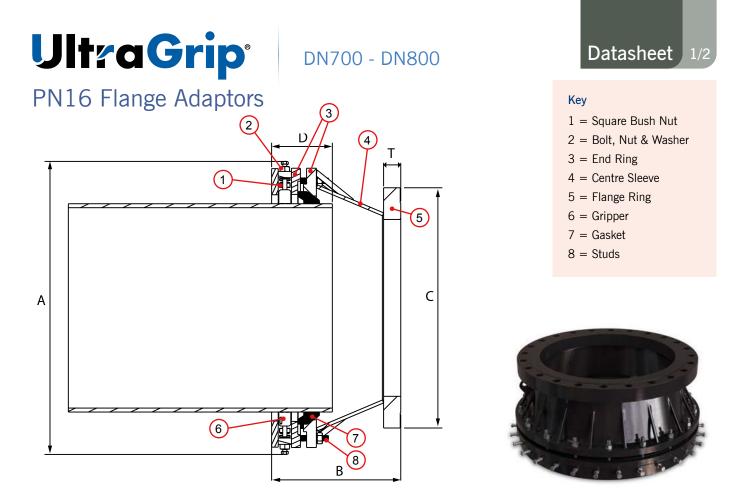
End Rings / Centre Sleeve / Flange:

- Rilsan Nylon 11 (Black)
- Bolts:
 - Dry Film Lubricant GZ Silver Nuts:
 - > Dry Film Lubricant GZ Silver

Gripper - None

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.

Datasheet 2/2



HAZARD WARNING: Lifting lugs, where provided, are designed/tested for lifting only the components to which they are attached. Failure to follow these instructions could result in property damage, serious personal injury or death. The maximum safe working load of the lifting eye is equal to the product weight.

Flange Adaptors

	Size F	Range	_		Insertion	Depth (D)	Settin	g Gap		Dime	nsions		Faste	eners	
Nom Size	Min	Max	Flange Nom Size	Flange Drilling	Min	Мах	Min	Max	С	Α	В	т	Axial Stud No-size	Radial Bolt No-size	Weight (kg)
700	700	735	600	PN16	220	245	275	300	840	1085	615	55	16 x M20	24 x M16	413
700	700	735	700	PN16	220	245	275	300	910	1085	520	63	16 x M20	24 x M16	437
700	727	762	700	PN16	220	245	275	300	910	1135	520	63	16 x M20	32 x M16	454
700	750	785	700	PN16	220	245	275	300	910	1135	520	63	16 x M20	24 x M16	455
800	789	824	700	PN16	220	245	480	505	910	1175	725	63	18 x M20	30 x M16	484
800	789	824	800	PN16	220	245	290	315	1025	1175	535	74	18 x M20	30 x M16	536
800	825	860	800	PN16	220	245	290	315	1025	1210	535	74	18 x M20	40 x M16	559
800	853	888	800	PN16	220	245	290	315	1025	1240	535	74	18 x M20	30 x M16	559

Flange Drilling - All flanges are drilled to BS EN 1092- part 1 and are flat face flanges

Connections based on standard pipe OD's*

Nom	Rai	nge	Ductile	PE /	Steel / FBE Coated	Cast	Asbestos
Size	Min	Max	Iron	MOPVC	Steel	Iron	Cement
DN700	700	735		710mm	DN700	26" (AB & CD)	26" (AB & CD)
DN700	727	762	DN700			27" (AB & CD)	27" (AB & CD)
DN700	750	785			DN750	28" (AB & CD)	28" (AB & CD)
		-		-			
DN800	789	824		800mm	DN800	30" (AB)	30" (AB)
DN800	825	860	DN800				
DN800	853	888				32" (AB & CD)	32" (AB & CD)

 $^{\star}\mbox{The above table is for guidance only, please ensure the OD and material of the pipe is compatible before installation$

Working Pressure & Temperature Ratings

Nominal Size	Gripping	Product	Flex P	roduct	Operating	
Nominal Size	Gas	Water	Gas	Water	Temperature	
DN700	N/A	16 bar	N/A	16 bar	-20 to +60	
DN800	N/A	16 bar	N/A	16 bar	-20 10 +60	

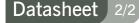
Pipe Materials



UltraGrip

PN16 Flange Adaptors

DN700 - DN800



Technical Information

Working pressure rating:

Water: DN700 to DN800 = 16 bar Gas: Not approved

Site test pressure:

1.5 times working pressure

Angularity

Flange Adaptor 4°

Gripping product suitable for

Ductile iron / PE (PE100, SDR 11, 17, 21, 26) Steel / Cast iron / MOPVC (SDR 33)

Flex product suitable for

Ductile Iron / PE (PE100, SDR 11, 17, 21, 26) Steel / Cast Iron / MOPVC / Asbestos Cement

Bolt Torque	Recom	mended Bo	olt Torque (Nm) on eve	ery bolt
	Bolt Size	Ductile Iron	PE-100	Steel & Cast Iron	MOPVC
Axial Fastener (For Gasket Engagement)	M20	190-210	190-210	190-210	190-210
Radial Fastener (For Grippers)	M16	175-185	140-150	110-120	95-105

For the full installation details and to ensure correct fitting, please refer to the Ultragrip DN700 DN800 installation instructions.

Temperature rating of product

Operating temperature -20°C to +60°C

1) Square Bush Nut

Cast stainless steel to ASTM A487/A487M-21, Grade CA6NM Class A

2) Bolts

Stainless steel to BS EN ISO 3506-1 Grade A4-80

2) Nuts

Stainless steel – BS1449:PT2 ISO 3506-1 Grade A4-80

2) Washers

Stainless steel – BS1449:PT2 ISO 3506-1 Grade A4-50

3) End Rings 4) Centre Sleeve

Mild steel to BS EN10025 Grade S355

5) Flange Ring

S275 Mild Steel to BS EN 10025-2

6) Gripper

Stainless steel (Cast) PH 17-4 H925 to BS EN 10088-1

7) Gasket

EPDM to BS EN 681-1

8) Studs

Stainless steel – BS EN ISO 3506-1 Grade A4-80

Support liners – PE and MOPVC pipes

A close fit Helden support liner is required when used on:

- ► All PE pipes
- MOPVC pipes

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. UltraGrip can be used in above ground applications, where it is not exposed to direct sunlight, and falls within the 40°C operating temperature range (between -20°C and +60°C).

Approvals

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

Rilsan Nylon 11:

> WRAS, AS/NZS 4020, DVGW, W270, ACS & KIWA

Gasket (EPDM):

► WRAS, W270

Finished Product:

BS8561; WRc certification verifying that the product complies with BS8561 (Specification for mechanical fittings for use in the repair, connection and renovation of pressurized water supply pipelines — Requirements and test methods).

Polyethylene Pipe Pull Out Performance; WRc certification confirming on PE a Type 2 end load performance (defined in IGN 4-01-02:2017 [N3]) when tested in accordance with the method given in BS EN ISO 3501.

Materials & Relevant Standards

Coatings

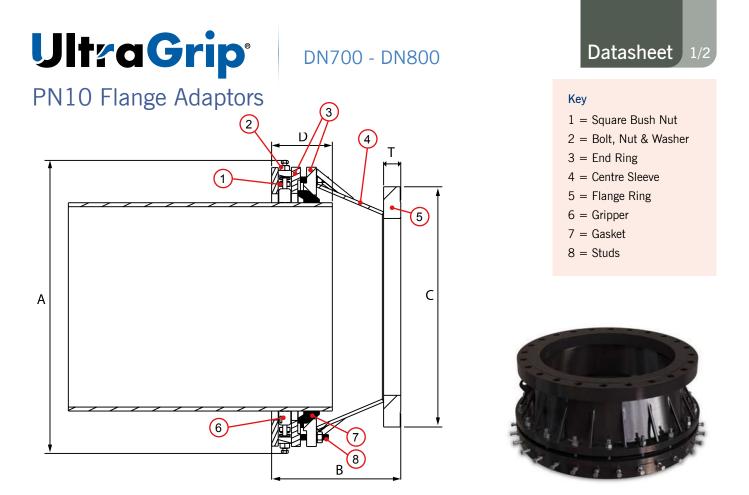
End Rings / Centre Sleeve / Flange:

- Rilsan Nylon 11 (Black)
- Bolts:
- Dry Film Lubricant GZ Silver Nuts:
- > Dry Film Lubricant GZ Silver

Gripper - None

Retention Insert

Nylon 6



HAZARD WARNING: Lifting lugs, where provided, are designed/tested for lifting only the components to which they are attached. Failure to follow these instructions could result in property damage, serious personal injury or death. The maximum safe working load of the lifting eye is equal to the product weight.

Flange Adaptors

	Size F	Range			Insertion	Depth (D)	Settin	g Gap		Dime	nsions		Faste	eners	
Nom Size	Min	Max	Flange Nom Size	Flange Drilling	Min	Мах	Min	Max	С	A	В	т	Axial Stud No-size	Radial Bolt No-size	Weight (kg)
700	700	735	700	PN10	220	245	265	290	780	1085	710	42	16 x M20	24 x M16	437
700	727	762	700	PN10	220	245	265	290	985	1115	510	50	16 x M20	32 x M16	454
700	750	785	700	PN10	220	245	265	290	895	1135	510	50	16 x M20	24 x M16	455
800	789	824	800	PN10	220	245	275	300	1015	1135	520	56	18 x M20	30 x M16	539
800	825	860	800	PN10	220	245	270	295	1015	1210	515	56	18 x M20	40 x M16	559
800	853	888	800	PN10	220	245	275	300	1015	1240	520	56	18 x M20	30 x M16	559

Flange Drilling - All flanges are drilled to BS EN 1092- part 1 and are flat face flanges

Connections based on standard pipe OD's*

Nom	Rai	nge	Ductile	PE /	Steel / FBE Coated	Cast	Asbestos	
Size	Min	Max	Iron	MOPVC	Steel	Iron	Cement	
DN700	700	735		710mm	DN700	26" (AB & CD)	26" (AB & CD)	
DN700	727	762	DN700			27" (AB & CD)	27" (AB & CD)	
DN700	750	785			DN750	28" (AB & CD)	28" (AB & CD)	
DN800	789	824		800mm	DN800	30" (AB)	30" (AB)	
DN800	825	860	DN800					
DN800	853	888				32" (AB & CD)	32" (AB & CD)	

 $^{\star}\mbox{The above table is for guidance only, please ensure the OD and material of the pipe is compatible before installation$

Working Pressure & Temperature Ratings

Nominal Size	Gripping	Product	Flex P	roduct	Operating
Nominal Size	Gas	Water	Gas	Water	Temperature
DN700	N/A	10 bar	N/A	10 bar	-20 to +60
DN800	N/A	10 bar	N/A	10 bar	-20 10 +60

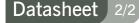
Pipe Materials



UltraGrip

PN10 Flange Adaptors

DN700 - DN800



Technical Information

Working pressure rating:

Water: DN700 to DN800 = 10 bar Gas: Not approved

Site test pressure:

1.5 times working pressure

Angularity

Flange Adaptor 4°

Gripping product suitable for

Ductile iron / PE (PE100, SDR 11, 17, 21, 26) Steel / Cast iron / MOPVC (SDR 33))

Flex product suitable for

Ductile Iron / PE (PE100, SDR 11, 17, 21, 26) Steel / Cast Iron / MOPVC / Asbestos Cement

Bolt Torque	Recommended Bolt Torque (Nm) on every bolt											
	Bolt Size	Ductile Iron	PE-100	Steel & Cast Iron	MOPVC							
Axial Fastener (For Gasket Engagement)	M20	190-210	190-210	190-210	190-210							
Radial Fastener (For Grippers)	M16	175-185	140-150	110-120	95-105							

For the full installation details and to ensure correct fitting, please refer to the Ultragrip DN700 DN800 installation instructions.

Temperature rating of product

Operating temperature -20°C to +60°C

1) Square Bush Nut

Cast stainless steel to ASTM A487/A487M-21, Grade CA6NM Class A

2) Bolts

Stainless steel to BS EN ISO 3506-1 Grade A4-80

2) Nuts

Stainless steel – BS1449:PT2 ISO 3506-1 Grade A4-80

2) Washers

Stainless steel – BS1449:PT2 ISO 3506-1 Grade A4-50

3) End Rings 4) Centre Sleeve

Mild steel to BS EN10025 Grade S355

5) Flange Ring

S275 Mild Steel to BS EN 10025-2

6) Gripper

Stainless steel (Cast) PH 17-4 H925 to BS EN 10088-1

7) Gasket

EPDM to BS EN 681-1

8) Studs

Stainless steel – BS EN ISO 3506-1 Grade A4-80

Support liners – PE and MOPVC pipes

A close fit Helden support liner is required when used on:

- ► All PE pipes
- ► MOPVC pipes

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. UltraGrip can be used in above ground applications, where it is not exposed to direct sunlight, and falls within the 40°C operating temperature range (between -20°C and +60°C).

Approvals

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

Rilsan Nylon 11:

> WRAS, AS/NZS 4020, DVGW, W270, ACS & KIWA

Gasket (EPDM):

► WRAS, W270

Finished Product:

BS8561; WRc certification verifying that the product complies with BS8561 (Specification for mechanical fittings for use in the repair, connection and renovation of pressurized water supply pipelines — Requirements and test methods).

Polyethylene Pipe Pull Out Performance; WRc certification confirming on PE a Type 2 end load performance (defined in IGN 4-01-02:2017 [N3]) when tested in accordance with the method given in BS EN ISO 3501.

Materials & Relevant Standards

Coatings

End Rings / Centre Sleeve / Flange:

- Rilsan Nylon 11 (Black)
- Bolts:
- Dry Film Lubricant GZ Silver Nuts:
- > Dry Film Lubricant GZ Silver

Gripper - None

Retention Insert

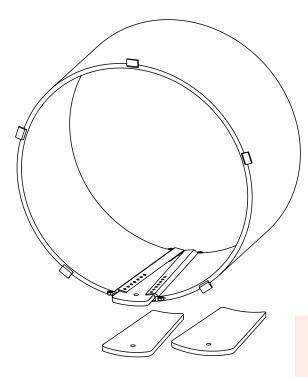
Nylon 6



Datasheet

Support liners for PE & MOPVC

Materials



Support liner & wedges

Mild steel - BS EN10025 Grade S355

Coatings

► Rilsan Nylon 11 (Black)

All DN700/800 UltraGrip products require a Helden approved support liner when used with PE and MOPVC. Please contact us regarding the availability.

Support liners for PE pipes

		Pipe OD		Pipe ID		Wedge 1				Wedge 2				Wedge 3				Wedge 4			
Pipe code	Pipe size (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min ID (mm)	Max ID (mm)	Short Edge (mm)	Long Edge (mm)	Min ID (mm)	Max ID (mm)	Short Edge (mm)	Long Edge (mm)	Min ID (mm)	Max ID (mm)	Short Edge (mm)	Long Edge (mm)	Min ID (mm)	Max ID (mm)	Short Edge (mm)	Long Edge (mm)
DN710-SDR11	710	710	716.4	567	587	555	565	50	100	566	571	85	135	572	582	103	153	583	587	120	170
DN710-SDR17	710	710	716.4	618	633	610	617	50	100	618	621	76	126	622	629	89	139	630	633	102	152
DN710-SDR21	710	710	716.4	635	649	626	633	50	100	634	641	76	126	642	645	89	139	646	649	102	152
DN710-SDR26	710	710	716.4	650	662	642	648	50	100	649	652	72	122	653	655	83	133	656	662	94	144
DN800-SDR11	800	800	807.2	640	662	627	638	50	100	639	644	88	138	645	656	107	157	657	661	126	176
DN800-SDR17	800	800	807.2	696	713	687	695	50	100	696	700	79	129	701	709	94	144	710	713	108	158
DN800-SDR21	800	800	807.2	716	731	708	715	50	100	716	723	76	126	724	727	89	139	728	731	105	152
DN800-SDR26	800	800	807.2	732	746	723	730	50	100	731	734	76	126	735	738	89	139	739	746	102	152

Support liners for MOPVC pipes

		Pipe	e OD	Pipe ID		Wedge 1				Wedge 2					Wed	ge 3		Wedge 4			
Pipe code	Pipe size (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min ID (mm)	Max ID (mm)	Short Edge (mm)	Long Edge (mm)	Min ID (mm)	Max ID (mm)	Short Edge (mm)	Long Edge (mm)	Min ID (mm)	Max ID (mm)	Short Edge (mm)	Long Edge (mm)	Min ID (mm)	Max ID (mm)	Short Edge (mm)	Long Edge (mm)
DN710-SDR33	710	710	712	662	668	565	661	50	100	662	664	88	138	665	670	79	129	671	673	126	176
DN800-SDR33	800	800	802	746	753	739	745	50	100	746	749	72	122	750	756	83	133	757	759	102	152



RAPLIFIED

For large scale projects choose a brand you can trust.





Keeping Our World Connected 🛞

DUBAI SALES OFFICE **CRANE BS&U BUILDING 4, OFFICE 901** THE GALLERIES PO BOX 17415 DOWNTOWN JEBEL ALI DUBAI. UAE

46-48 WILBURY WAY HITCHIN, HERTFORDSHIRE SG4 0UD. UNITED KINGDOM TELEPHONE: +44 (0)1462 443322

FAX: +44 (0)1462 443311 EMAIL: info@helden-web.com

EMAIL: info@helden-web.com TELEPHONE: +971 4816 5800

www.helden-web.com

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.

All images used in this marketing literature are the exclusive property of Crane Ltd and copyrighted. These images may not be reproduced, copied, transmitted or manipulated without written permission.





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

- Designed and manufactured under quality management systems in accordance with BS EN ISO 9001.
- Environmental Management System accredited to ISO 14001.
- For full terms and conditions, please visit our website.
- We hope our communications have an impact on you but not the environment - we have taken steps to ensure this brochure is printed on Forestry Stewardship Council material and the paper is made by a totally chlorine free process.





DR11334_20_07_2023_V3_GB



BUILDING SERVICES & UTILITIES