

**NEW**

Large Diameter  
**AquaFast**  
355mm to 450mm Diameter

A REAL TIME SAVER FOR POLYETHYLENE PIPE CONNECTIONS

Large Diameter  
AquaFast can reduce  
your inventory by

**75%**



PIONEERS IN PIPE SOLUTIONS

**CRANE**

BUILDING SERVICES & UTILITIES



# AquaFast Couplings & Flange Adaptors 355mm to 450mm

## Overview

## Designed for simplified & dependable trench installation every time.

### Simple to Install

AquaFast Large Diameter is quick and easy to install providing an alternative solution to electrofusion and butt fusion for all weather and trench conditions. It is a simple fit and forget installation designed with the minimum number of bolts and without the need for an internal liner or expensive trench equipment.

### Quality

Patents are pending on this innovative product designed and manufactured under quality systems to BS EN ISO 9001 and the requirements of UK & European Water Regulations.

### Reduced Stock Holding

And now just 10 sizes will cover a range of multiple SDR's offering a significant reduction in traditional stockholding and allowing distributors and water utilities opportunity to have stock to cover all eventualities with off-the-shelf availability.

### Innovative Design ideal for Oval Pipes



Viking Johnson has built in a high tolerance for AquaFast to fit with oval pipes and negating the need to utilise expensive and time consuming re-rounding tools.

### Fully Corrosion Protected

WRAS approved black Rilsan Nylon 11 coating provides excellent corrosion and damage resistance to impact, abrasion, weathering and chemicals.


### Resists Pull-out

Improved gripping mechanism offers end load restraint, resisting pipe pull out, allowing the coupling and flange adaptor to be suitable for use in climatic regions where temperatures range from -20°C up to 60°C. AquaFast has been designed to meet the performance requirements of EN 12842, WIS 4-24-01 Type 2 and ISO 17855 (supersedes ISO 14236.2)



Pipe Material



- 
- NO SPECIALIST INSTALLATION TOOLING REQUIRED - NOT EVEN A TORQUE WRENCH
  - MINIMAL NUMBER OF BOLTS TO TIGHTEN
  - NO INTERNAL LINER REQUIRED
  - ONE SIZE FITS MULTIPLE PIPE SDR'S (SDR 11, 17 & 17.6)
  - EXTENDED NEW RANGE 355MM TO 450MM DIAMETER
  - COUPLINGS AND FLANGE ADAPTORS
  - QUICK & EASY FITTING ON OVAL PIPES

# GRIPPING INNOVATION

For Polyethylene Connections  
355mm to 450mm Diameter



## Product Design Benefits

**RILSAN®**  
BY ARKEMA

### Innovative Gripping

An enhanced gripping mechanism offers Type 2 end load restraint, resisting pipe pull out.



### Corrosion Protection

All cast components are fully coated in Black Rilsan Nylon 11 which has excellent resistance to impact, abrasion, weathering and chemicals as well as good thermal stability and flexibility to accommodate for rough site handling.



### Positive Stop

Correct installation confirmed through visual indication with metal to metal contact between the clamp bands.



### Centralisation Feature

Centralisation bolts are available around the product allowing accurate fitment during installation.



## Customer Benefits

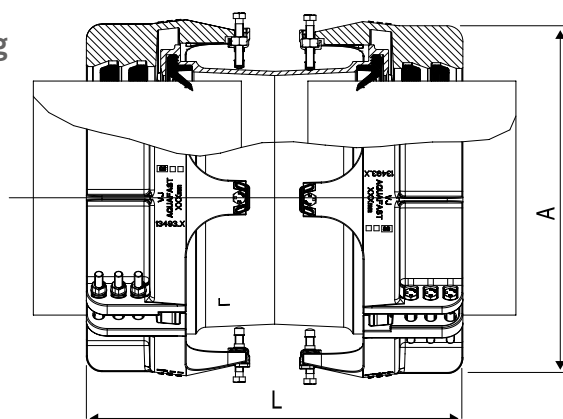
- Coupling can be used for repair - no internal restriction ideal for Sewage applications.
- Suitable for connecting pipes in wet/submerged conditions and above ground applications.
- No requirement for a support liner, torque wrench or any other specialist equipment on site.
- Easy to centralise on the pipe.
- Reduced stockholding - One product can connect one nominal pipe size with common SDRs (11 & 17/17.6).

- 50 years design life expectancy.
- Reusability - No spares required for multiple installations.
- Saves time and effort as Contractor only has to identify PE pipe nominal size to select correct fitting.
- Fittings comes fully assembled.
- Minimal number of bolts to tighten.

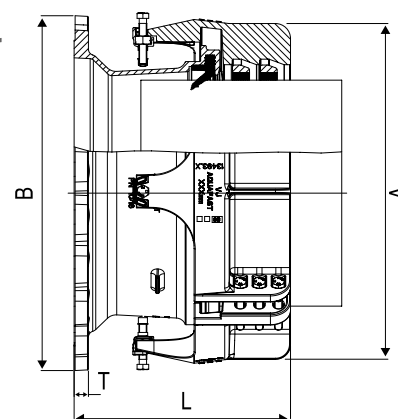


## Specifications

**Coupling**



**Flange Adaptor**



### Couplings (Suitable for pipe SDR's 11, 17 & 17.6)

Nominal Size	Working Pressure (water) bar	Bolts size No dia x length	Insertion Depth (mm)	Setting gap (based on nominal insertion depth)	Outer Dimensions (mm)			Weight (kg)
					Clamp band outer diameter (A)		Length (L)	
			Nom		Installed	Uninstalled		
355	16	24-M16 x 120	241	210	540	571	692	213.3
400	16	24-M16 x 120	247	210	585	618	704	231.3
450	16	24-M16 x 120	255	210	635	670	720	253.3

### Flange Adaptors (Suitable for pipe SDR's 11, 17 & 17.6)

Nominal Size	Flange Drilling	Working Pressure (water) bar	Bolts size No dia x length	Insertion Depth (mm)			Setting gap (based on nominal insertion depth)	Outer Dimensions (mm)					Weight (kg)
				Min	Nom	Max		Clamp Band Outer Diameter (A)		Length (L)	Flange Outer Diameter (B)	Flange Thickness (T)	
								Installed	Uninstalled				
355	300 PN10,16	16	12-M16 x 120	284	304	324	197	540	571	501	455	22.5	122.2
355	350 PN10,16	16	12-M16 x 120	284	304	324	117	540	571	421	520	23.5	120.0
400	350 PN10,16	16	12-M16 x 120	289	309	329	183	585	618	492	520	23.5	134.4
400	400 PN10,16	16	12-M16 x 120	290	310	330	117	585	618	427	580	25	132.0
450	400 PN10,16	16	12-M16 x 120	298	318	338	109	635	670	427	580	25	142.9
450	450 PN10,16	16	12-M16 x 120	298	318	338	117	635	670	435	640	27	147.2
450	500 PN10,16	16	12-M16 x 120	298	318	338	117	635	670	435	715	28.5	155.4

AquaFast couplings and flange adaptors are also available in sizes 63mm to 315mm for PE & PVC pipe connections - see website for details.

## Materials & Relevant Standards

### Flange adaptor body, centre sleeve, clamp bands and gripper ring

Ductile iron to BS EN 1563  
Symbol EN-GJS-450-10

#### Bolts

Stainless Steel BS EN ISO3506-1  
Grade A2-70

#### Nuts

Stainless Steel BS EN ISO3506-2  
Grade A4-80

### Washers

Stainless Steel to BS1449:  
Part 2:1983 Grade 304S15

### Gasket

EPDM Grade 'E'  
to BS EN 681-1:1996  
Type WA WRAS listed

### Approvals

All water contact materials approved for use with potable water (WRAS)  
Environment Management system accredited to ISO 14001

### Coatings

**Cast/Metal Components** (Flange adaptor body, centre sleeve and clamp bands) are coated in Rilsan Nylon 11 to WIS 4-52-01 (Part 1)

**Cast/Metal Components** (Gripper Ring) -

Electrophoretic coating

**Bolts** – Dry Film Lubricated

**Nuts** – Geomet coated

### Technical Parameters

- Maximum working pressure 16bar
- Maximum test pressure 24bar
- Meet the performance requirements of BS EN 12842, WIS 4-24-01 (Type 2) and ISO 17885
- Suitable for PE80 and PE100
- PE pipe thickness SDR 11 & 17/17.6
- Operating Temperature Range (-20°C to 60°C)

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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