





PIONEERS IN PIPE SOLUTIONS









Dedicated Couplings & Flange Adaptors

The QuickFit coupling range is designed to connect plain ended pipes with similar outside diameters. The full range includes couplings and flange adaptors in nominal sizes between DN50 (2") and DN300 (12") and accommodates PVC, coated and uncoated steel and ductile iron pipe.

New Lay & High Pressure Applications

The QuickFit range is ideal for new lay schemes as the fittings are preassembled with close tolerance to allow for quick installation. They are also suitable for high pressure applications – DN50 to DN125 are available up to 46 bar, DN150 to DN300 to 29 bar as standard. Higher pressures are available as fabricated specials.

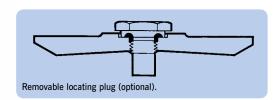
Transferring the End Load

QuickFit flange adaptors are not end load-bearing products and in the event that the application requires restraining, tie rods can be used to transfer the end load forces to an anchor flange on the pipe. The design of QuickFit flange adaptors is such that there is sufficient clearance to allow the tie rods to pass over the end ring without the need for notching. This means that one product can be offered for both flexible and tied configurations, thus reducing stock holding.

Removable Locating Plugs - Prevent Coupling Creep

QuickFit couplings are available with removable locating plugs, to prevent coupling creep on above ground pipelines caused by repeated pipe movement from temperature variation, continuous vibrations and movement. The removable locating plug (optional) ensures the coupling can slide fully over the pipe ends for quick and simple installation. Once installed they engage between the pipe ends to prevent the coupling moving beyond fixed limits.





Standard Pipe Materials











QuickFit Couplings

Product Design Benefits

Simple to Fit

One size of captive, non-rotating bolt across whole range requiring a single spanner to install along with one bolt torque across range.

Corrosion Protection

Metal components are coated with Rilsan Nylon 11, which is WRAS approved for use with potable water, and offers long term corrosion protection and resistance to impact damage.

The nuts & bolts are Sheraplex coated to WIS 4-52-03, which does not gall when re-used and offers a consistent "torque / load" ratio reducing the sensitivity during installation while providing long term corrosion protection.

Various Gasket Grades

EPDM (water quality approved) and Nitrile gaskets as standard. Alternative exotic grades available for specialist applications (see Design Data for more details).

Removable Locating Plug

Optional feature is removal locating plug to prevent pipe creep on above ground pipework.

Customer Benefits

- QuickFit couplings allow 6° of angular deflection between pipes, accommodating movement in service (e.g. ground settlement) and making for easier installation (e.g. long radius curves and misaligned pipes with two fittings and a short length of pipe).
- QuickFit couplings allow 10mm of expansion & contraction, accommodating movement in service to relieve stress in the pipeline (e.g. temperature changes in pipelines).
- Stock reduction is accomplished through the tolerance on OD means that both steel and coated steel are covered in the same fitting.

- ➤ Rapid installation of new lay pipework through tolerances designed round steel, coated steel and ductile iron pipes and need to use simply 19mm A/F socket and torque wrench.
- Standard product supplied with Rilsan Nylon coating, EPDM gaskets and Sheraplex coated bolts making it ideal for water / waste water sector; other specialist coatings, bolt materials and exotic gasket grades are available for specialist applications are available (contact Viking Johnson for further advice).
- ➤ Fully galvanised version is available
 - see Marine Couplings section.

www.vikingjohnson.com Viking Johnson QuickFit

QuickFit Flange Adaptors

Product Design Benefits

Flexible Flange Drilling

As standard the flange adaptors are multi drilled to accommodate BS EN 1092-1 PN10 & 16. Flange drilling to other standards available to accommodate site requirements (see data sheets)

Full Bore Flange

As standard flange adaptors are supplied with full "S Bore" flange for use with wafer style (butterfly) valves.

Various Gasket Grades

EPDM (water quality approved) and Nitrile gaskets as standard. Alternative exotic grades available for specialist applications (see Design Data for more details).

Corrosion Protection

Metal components are coated with Rilsan Nylon 11, which is WRAS approved for use with potable water, and offers long term corrosion protection and resistance to impact damage.

The nuts & bolts are Sheraplex coated to WIS 4-52-03, which does not gall when re-used and offers a consistent "torque / load" ratio reducing the sensitivity during installation while providing long term corrosion protection.

End Load Forces Easily Accommodated

Low profile end ring means no interference with tie rods used to harness the flange adaptor to accommodate end load forces.

Customer Benefits

- QuickFit flange adaptors allow 3° angular deflection between pipes and flange equipment, accommodating movement in service (e.g. ground settlement) and making for easier installation.
- QuickFit flange adaptors allow 5mm expansion & contraction, accommodating movement in service to relieve stress in the pipeline (e.g. temperature changes in pipelines).
- Stock reduction is accomplished from:-
 - Use of low profile end rings that do not interfere with tie rods means standard flange adaptor can be used as either a flexible or harnessed version.
 - Tolerance on OD means that both steel and coated steel are covered in the same fitting.

- ➤ The full bore flange supplied as standard in QuickFit flange adaptors with BS EN 1092-1 PN10 & 16 drillings make them ideal for use with wafer style valves. All other flange adaptors come with either clear bore or full face options.
- ➤ Rapid installation of new lay pipework through tolerances designed round steel, coated steel and ductile iron pipes and need to use simply 19mm A/F socket and torque wrench.
- Standard product supplied with Rilsan Nylon coating, EPDM gaskets and Sheraplex coated bolts making it ideal for water / waste water sector; other specialist coatings, bolt materials and exotic gasket grades are available for specialist applications are available (contact Viking Johnson for further advice).
- > Fully galvanised version is available
 - see Marine Couplings section.

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QuickFit Couplings

Specifications

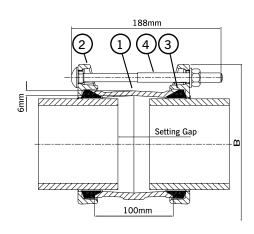
QuickFit Coupling

Bolt size M12 x 180mm CDX 1 = Centre SleeveSetting gap Recommended - 20mm 2 = End Ring

Bolt torque 55-65Nm Expansion/Contraction 10mm

Angularity 69

QuickFit Couplings DO NOT resist end load due to the internal pressure - adequate external restraint must be provided to prevent pipe pull out.



Size Ran	ge (mm)	Working Pressure	End Ring OD	Bolt Size	Gasket Mould	Weight
Min	Max	(bar)	B (mm)	NoDia x Length	No.	(kg)
47.9	51.3	46.6	136.0	2-M12 x 180	12477/41	2.22
59.5	63.3	46.6	148.0	2-M12 x 180	12477/1	2.51
75.3	79.1	46.6	164.0	2-M12 x 180	12477/5	2.89
88.1	91.9	46.6	177.0	4-M12 x 180	12477/7	3.81
95.8	100.2	46.6	185.0	4-M12 x 180	12477/10	4.00
107.2	111.0	46.6	196.0	4-M12 x 180	12477/12	4.26
113.5	120.2	46.6	205.0	4-M12 x 180	12477/15	4.48
138.9	142.7	44	228.0	4-M12 x 180	12477/19	5.02
158.2	162.0	38.8	254.0	4-M12 x 180	12477/21	6.32
167.5	172.3	36.9	264.0	4-M12 x 180	12477/24	6.59
192.9	196.7	32.2	292.0	4-M12 x 180	12477/26	8.06
218.3	224.4	35.8	319.0	4-M12 x 180	12477/29	8.89
272.2	276.5	34.8	372.0	6-M12 x 180	12477/34	11.15
323.1	328.6	29.5	424.0	6-M12 x 180	12477/37	12.76

Site Test pressure = 1.5 x working pressure

Materials & Relevant Standards

Centre Sleeve and End Rings

Ductile Iron to BS EN1563: Symbol EN-GJS-450-10

Gaskets

Standard: EPDM to BS EN681-1, TYPE WA, WC Nitrile to BS EN682: Type G Other grades are available - contact Viking Johnson for details

Tee Bolts/Bolts

Standard: Steel to BS EN ISO 898-1: property class 4.8

Option: Stainless Steel to BS EN ISO 3506-1: grade A4

property class 50

Nuts/Washers

Nuts - Standard: Steel to BS EN 20898-2: property class 8
Option: Stainless Steel to BS EN ISO 3506-2: grade A4
property class 80

Washers - Stainless Steel to BS1449:PART 2: GRADE 304S15

Coatings

Centre sleeve and end rings coated with:

Standard: Rilsan Nylon 11 to WIS 4-52-01 Part 1 Other coatings available: Scotchkote, Primer, Galvanised Tee bolts, CDX bolts and nuts coated with Standard Sheraplex to WIS 4-52-03

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QuickFit Flange Adaptors - Standard Cast

Specifications

QuickFit Flange Adaptor (Standard Cast Product)

Bolt Size M12 x 115mm Tee Bolt 1 = BodySetting gap Recommended - 25mm 2 = End RingMax - 45mm 3 = GasketBolt torque 55-65Nm 4 = Bolts

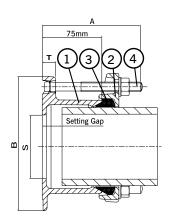
Bolt torque 55-65Nm

Max working In accordance with flange rating pressure

Expansion/Contraction 5mm Angularity 3°

QuickFit Flange Adaptors DO NOT resist end load due to the internal pressure

- adequate external restraint must be provided to prevent pipe pull out.



Size Ran	ige (mm)	Flange Detail (mm)		Overall Length	S Bore	Flange	Bolt Size	Gasket	Weight	
Min	Max	Flange OD (B)	Flange Thickness (T)	A (mm)	S (mm)	Drilling	NoDia x Length	Mould No.	(kg)	
59.5	63.3	161.0	17.0	125.0	50.0	50 PN10,16,25,40	2-M12 x 115	12477/1	2.28	
75.3	79.1	181.0	17.0	125.0	65.0	65 PN10,16	2-M12 x 115	12477/5	2.66	
88.1	91.9	196.0	17.0	126.0	80.0	80 PN10,16,25,40	4-M12 x 115	12477/7	3.48	
95.8	100.2	196.0	17.0	126.0	80.0	80 PN10,16,25,40	4-M12 x 115	12477/10	3.59	
107.2	111.0	216.0	17.0	126.0	100.0	100 PN10,16	4-M12 x 115	12477/12	3.91	
113.5	120.2	216.0	17.0	126.0	100.0	100 PN10,16	4-M12 x 115	12477/15	4.03	
138.9	142.7	246.0	17.0	126.0	125.0	125 PN10,16	4-M12 x 115	12477/19	4.71	
158.2	162.0	284.0	17.0	126.0	150.0	150 PN10,16	4-M12 x 115	12477/21	5.76	
167.5	172.3	284.0	17.0	126.0	150.0	150 PN10,16	4-M12 x 115	12477/24	5.87	
192.9	196.7	339.0	20.0	126.0	199.0	200 PN10,16	4-M12 x 115	12477/26	8.43	
218.3	224.4	339.0	20.0	126.0	200.0	200 PN10,16	4-M12 x 115	12477/29	8.49	
272.2	276.5	405.0	20.0	129.0	250.0	250 PN10,16	6-M12 x 115	12477/34	11.38	
323.1	328.6	455.0	20.0	129.0	300.0	300 PN10,16	6-M12 x 115	12477/37	13.04	

Test pressure = 1.5 x working pressure

Tied Flange Adaptor

The design of the new QuickFit flange adaptor is such that there is sufficient clearance to allow tie rods (used to restrain them) to pass over without the need for notching.

Materials & Relevant Standards

Flange Adaptor Body and End Rings

Ductile Iron to BS EN1563: Symbol EN-GJS-450-10

Gaskets

> 6

 $\begin{tabular}{ll} \textbf{Standard:} EPDM to BS EN681-1, TYPE WA, WC Nitrile to BS EN682: \\ Type G Other grades are available - contact Viking Johnson for details \\ \end{tabular}$

Tee Bolts/Bolts

Standard: Steel to BS EN ISO 898-1: property class 4.8 **Option:** Stainless Steel to BS EN ISO 3506-1: grade A4

property class 50

Nuts/Washers

Nuts - Standard: Steel to BS EN 20898-2: property class 8
Option: Stainless Steel to BS EN ISO 3506-2: grade A4
property class 80

Washers - Stainless Steel to BS1449:PART 2: GRADE 304S15

Coatings

Flange adaptor body and end rings coated with: Standard: Rilsan Nylon 11 to WIS 4-52-01 Part 1 Other coatings available: Scotchkote, Primer, Galvanised

Tee bolts, CDX bolts and nuts coated with **Standard:** Sheraplex to WIS 4-52-03

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QuickFit Flange Adaptors - Fabricated (Common Drillings)

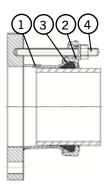
Specifications

QuickFit Flange Drilling Capabilities - Other common drillings

	Flange Details			ASME/A	NSI B16.1/				
AD.	Nam (")	,,, 125			50	2	50	300	
OD	Nom - (")	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?
059.5 - 063.3	2	1	Х	✓	X	✓	✓	Х	Х
075.3 - 079.1	2.5	✓	✓	✓	✓	✓	✓	X	Х
088.1 - 091.9	3	1	1	✓	✓	✓	✓	Х	Х
095.8 - 100.2	3	1	X	✓	Х	✓	✓	Х	Х
107.2 - 111.0	4	1	1	✓	✓	✓	✓	Х	Х
113.5 - 120.2	4	1	1	✓	✓	✓	✓	Х	Х
138.9 - 142.7	5	1	1	✓	✓	✓	✓	Х	Х
158.2 - 162.0	6	1	1	✓	✓	✓	✓	Х	Х
167.5 - 172.3	6	1	1	✓	✓	✓	✓	Х	Х
192.2 - 196.7	8	1	1	✓	✓	X	Х	Х	Х
218.3 - 224.4	8	✓	✓	✓	✓	✓	✓	X	X
272.2 - 276.5	10	1	1	✓	✓	X	X	X	Х
323.1 - 328.6	12	1	✓	✓	✓	X	Х	X	Х

	Flange Details	AWWA C207 Class								
OD.	Now (")	В			D		E	F		
OD	Nom - (")	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?	
107.2 - 111.0	4	1	✓	1	✓	✓	✓	1	✓	
113.5 - 120.2	4	1	1	1	✓	✓	✓	1	✓	
138.9 - 142.7	5	1	1	1	✓	1	✓	1	✓	
158.2 - 162.0	6	✓	✓	1	1	✓	1	1	✓	
167.5 - 172.3	6	1	✓	1	✓	✓	✓	1	✓	
192.2 - 196.7	8	✓	✓	1	1	✓	1	✓	✓	
218.3 - 224.4	8	✓	✓	1	✓	✓	1	✓	✓	
272.2 - 276.5	10	/	✓	1	1	1	1	Х	Х	
323.1 - 328.6	12	1	✓	1	✓	1	✓	X	Х	

	Flange Details	Flange Details AS2129 Table									
O.D.	Na ()		A		C		D	E			
OD	Nom - (mm)	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?		
059.5 - 063.3	50	1	Х	1	Х	✓	Х	1	Х		
075.3 - 079.1	65	/	Х	✓	Х	✓	Х	1	Х		
088.1 - 091.9	80	1	Х	1	Х	✓	Х	1	Х		
095.8 - 100.2	80	1	Х	✓	Х	✓	Х	1	Х		
107.2 - 111.0	100	/	✓	✓	✓	✓	✓	1	1		
113.5 - 120.2	100	1	Х	✓	Х	✓	Х	1	Х		
138.9 - 142.7	125	/	✓	✓	✓	✓	✓	/	✓		
158.2 - 162.0	150	✓	✓	✓	✓	✓	✓	✓	✓		
167.5 - 172.3	150	1	Х	1	Х	1	Х	1	Х		
192.2 - 196.7	200	1	✓	✓	✓	✓	✓	/	✓		
218.3 - 224.4	200	1	Х	1	Х	✓	Х	1	Х		
272.2 - 276.5	250	X	Х	Х	Х	Х	Х	/	✓		
323.1 - 328.6	300	X	Х	✓	✓	✓	✓	1	Х		



1 = Body2 = End Ring

3 = Gasket4 = Studs

 $Y/N = \checkmark = Can make QFFA$ with this drilling

> x = Cannot make QFFA with this drilling

Tied? = \checkmark = Can offer as tied FA - notching not required

> x = Cannot offer as tied FA - bolts clash with end ring - cannot notch

Materials & Relevant Standards

Flange

Steel to BS EN 10025-2: Grade S275JR

Steel Tube to BS EN 10216-1::Grade P265TRI or Steel Tube to BS EN 10217-1: or Steel BS EN10025-2: Grade S275JR

Tee Bolts/Bolts

Standard: Steel to BS EN ISO 898-1: property class 4.8 Stainless Steel to BS EN ISO 3506-1: grade A4

property class 50

Nuts/Washers

Nuts - Standard: Steel to BS EN 20898-2: property class 8 Option: Stainless Steel to BS EN ISO 3506-2: grade A4 property class 80

Washers - Stainless Steel to BS1449:PART 2: GRADE 304S15

End Rings

Ductile Iron to BS EN1563: Symbol EN GJS-450-10

Standard: EPDM to BS EN681-1, TYPE WA, WC Nitrile to BS EN682: Type G Other grades are available - contact Viking Johnson.

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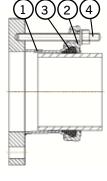
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QuickFit Flange Adaptors - Fabricated (Standard Drillings)

Specifications

New QuickFit Flange Drilling Capabilities - Standard drillings

	Flange Details		BS EN 1092											
0.0	Nom	PN	2.5	P	N6	PN	110	PN	116	PN	125	PN	140	
OD	(mm)	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?	
059.5 - 063.3	50	/	X	/	Х									
075.3 - 079.1	65	/	X	/	X					/	✓	/	1	
088.1 - 091.9	80	/	X	/	X									
095.8 - 100.2	80	/	X	/	X									
107.2 - 111.0	100	✓	✓	/	✓					/	✓	/	1	
113.5 - 120.2	100	/	X	/	X					/	✓	/	1	
138.9 - 142.7	125	✓	X	✓	X					✓	✓	✓	✓	
158.2 - 162.0	150	/	X	/	X					/	✓	Х	X	
167.5 - 172.3	150	✓	X	✓	X					✓	✓	Х	X	
192.2 - 196.7	200	✓	1	✓	1					✓	1	Х	X	
218.3 - 224.4	200	✓	X	✓	X					✓	✓	Х	X	
272.2 - 276.5	250	✓	X	✓	X					✓	1	X	X	
323.1 - 328.6	300	✓	X	1	X					X	X	X	X	



1 = Body

2 = End Ring

3 = Gasket

4 = Studs

= Denotes standard cast product

	Flange Details		BS 10:1962 Table										
	Nom		A		D		E		F	Н		J	
OD	(")	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?	Y/N	Tied?
059.5 - 063.3	2	/	Х	/	Х	/	Х	/	/	/	/	Х	Х
075.3 - 079.1	2.5	/	X	/	X	/	X	/	✓	/	1	Х	X
088.1 - 091.9	3	/	X	/	X	/	X	/	✓	/	/	Х	X
095.8 - 100.2	3	/	X	/	X	/	X	/	✓	✓	✓	Х	X
107.2 - 111.0	4	/	✓	/	1	/	✓	/	✓	/	✓	Х	X
113.5 - 120.2	4	✓	✓	✓	✓	/	✓	✓	✓	✓	✓	X	X
138.9 - 142.7	5	/	✓	/	1	/	✓	✓	✓	✓	✓	Х	X
158.2 - 162.0	6	1	✓	1	✓	/	✓	/	✓	/	✓	X	X
167.5 - 172.3	6	/	X	/	X	/	X	✓	✓	/	1	Х	X
192.2 - 196.7	8	/	✓	/	1	✓	✓	✓	✓	Х	X	Х	X
218.3 - 224.4	8	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	X	X
272.2 - 276.5	10	Х	X	Х	X	✓	✓	/	1	/	✓	Х	X
323.1 - 328.6	12	Х	Х	1	/	1	1	Х	X	Х	X	Х	Х

✓ = Can make QFFA with this drilling

> x = Cannot make QFFAwith this drilling

Tied? = \checkmark = Can offer as tied FA – notching not required

> x = Cannot offer as tiedFA - bolts clash with end ring - cannot notch

Materials & Relevant Standards

Flange

Steel to BS EN 10025-2: Grade S275JR

Sleeve

Steel Tube to BS EN 10216-1: Grade P265TRI or Steel Tube to BS EN 10217-1:

or Steel BS EN10025-2: Grade S275JR

Tee Bolts/Bolts

Standard: Steel to BS EN ISO 898-1: property class 4.8 Stainless Steel to BS EN ISO 3506-1: grade A4

property class 50

Nuts/Washers

Nuts - Standard: Steel to BS EN 20898-2: property class 8 Option: Stainless Steel to BS EN ISO 3506-2: grade A4 property class 80

Washers - Stainless Steel to BS1449:PART 2: GRADE 304S15

End Rings

Ductile Iron to BS EN1563: Symbol EN GJS-450-10

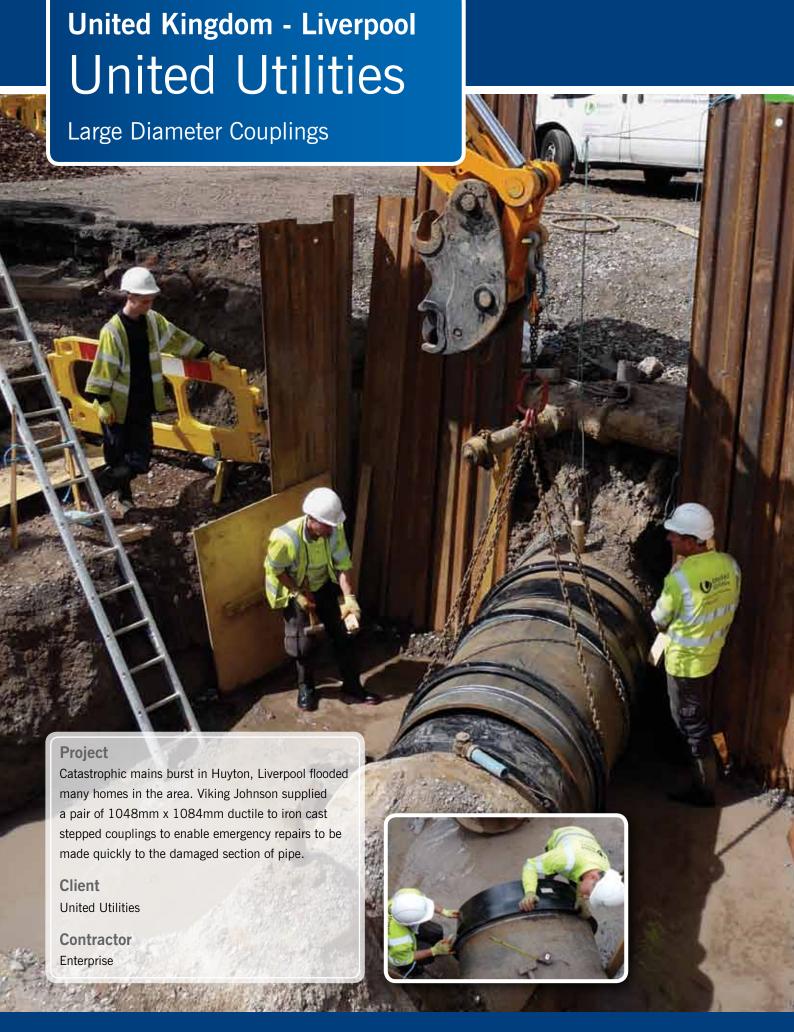
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Standard: EPDM to BS EN681-1, TYPE WA, WC Nitrile to BS EN682: Type G Other grades are available - contact Viking Johnson.

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PIONEERS IN PIPE SOLUTIONS



