



### Materials of Construction

#### Flanged Spigot and Flanged Adaptor

Rolled Steel to SANS 1431 Grade 350 WA or EN 10025 - S355 JR. Alternatively all Stainless Steel 304 or 316

#### Centre Ring

Carbon Steel to SANS 1431 Grade 350 WA or EN 10025 - S355 JR. Alternatively all Stainless Steel 304 or 316

#### Protective Coating

Fusion Bonded Epoxy to 300 microns as standard

#### Gaskets

EPDM to SABS 974/ ISO 4633

#### Nuts and Bolts and Tie Rods

Steel to SANS 1143 Grade 8.8 Hot Dipped Galvanised to SANS 763. Alternatively all Stainless Steel 304 or 316

#### Washers

Steel Hot Dipped Galvanised to SANS 763. Alternatively all Stainless Steel 304 or 316

#### Size and Pressure Range

REXUS manufacture couplings to any pipe OD of up to DN1600 and pressures up to PN64 on request.

#### Site Test Pressure

Site test pressure is 1.5 x working pressure.

## REXUS KII Dismantling Joints

The REXUS KII range of Couplings Flange Adaptors and Dismantling Joints are 100% locally manufactured and have been utilised on some of the most significant projects in South Africa. In addition, our products are exported to several countries.

Factors that distinguish REXUS KII Dismantling Joints from competing products are:

**Moulded Rubber Gaskets** - all our rubber gaskets, regardless of size are moulded and not glued providing a superior performance.

**Rubber Gasket Thickness and Profile** - all our gaskets have a specific ribbed sealing profile to ensure drip-tight sealing regardless of the pipe surface.

**Fusion Bonded Epoxy Coating** - all our Couplings regardless of size are fusion bonded epoxy coated to 300 microns as standard. Couplings exposed to sunlight are coated with an additional UV resistant coating.

**Ease of Installation** - Our Dismantling Joints are designed for ease of installation with the Flange Adaptor Barrel and Spigot designed for the best fit and a movement of between 30 and 50mm for ease of installing or removing of any pipeline component.

**Short Lead Times** - REXUS is rapidly becoming the company of choice to design, manufacture and supply couplings for emergency conditions. Our standard turnaround time for emergency items is 24 to 48 hours and for out of stock standard items in large batches is 5 to 10 days.

**Technical Expertise and Aftersales backup** - REXUS is a designer, manufacturer and supplier of all pipeline related products. We therefore have an in depth understanding on pipeline material selection, valve performance and complex pipeline phenomena such as Surge and Waterhammer. We bring all our expertise to bear in every recommendation and back up our products with unparalleled sale support - try us!

## KII Dismantling Joint

REXUS KII provides a Dismantling Joint design that is double flanged and allows for longitudinal adjustment in flanged pipe systems and therefore greater flexibility at the planning, installation and subsequent maintenance stages of flanged pipework systems.

REXUS KII Dismantling Joints accommodates for up to 50mm longitudinal adjustment and can be locked at a required length with the tie rods that are supplied as standard. This allows for fast and simple maintenance of valves and pumps.

Dismantling Joints simplifies future pipework modifications and reduces down time. Tie rods act as flange jointing bolts, reducing the number of flange bolts required. The harnessing capacity accommodated within the bolt circle, eliminates other complex anchoring systems and reduces space requirements.

The gasket is compressed independently of the tie rods. Sealing failure cannot occur once the gasket is compressed to the required torque.

Custom made Dismantling Joints are available on request.

REXUS KII Dismantling Joints are manufactured to the highest possible quality and tested to the most exacting standards to ensure that they outlast the pipes on which they are fitted.

All REXUS KII Dismantling Joints are fully end load resistant and have a pressure rating equal to that of the flange.

**Nuts, Tie Rods and Washers**  
BS 970 Grade 070M020

Hot Dipped Galvanised as standard. Other coating available on request.

**Coating - Sleeve Assembly, Flange Adaptor and End Rings**

High impact, abrasion, weather and chemical resistant Fusion Bonded Epoxy to 300 microns as standard. Other coatings available on request

Harnessing accommodated within the bolt circle eliminating other complex systems and reducing space requirements.

**Rubber Gasket**

EPDM to ISO 4633/ SABS 974

Distinct circumferential ribs provides maximum sealing on scored, corroded and pitted pipe

Gasket is compressed independently of the tie rods.

Sealing failure cannot occur once the gasket is compressed to the required torque

**Ring**

Rolled Steel: SABS 1431 Gr. 350 WA or EN 10025 - S355 JR

Rigourously tested for strength and life expectancy of 50 years or more

**Sleeve**

Rolled Steel: SABS 1431 Gr. 350 WA or EN 10025 - S355 JR

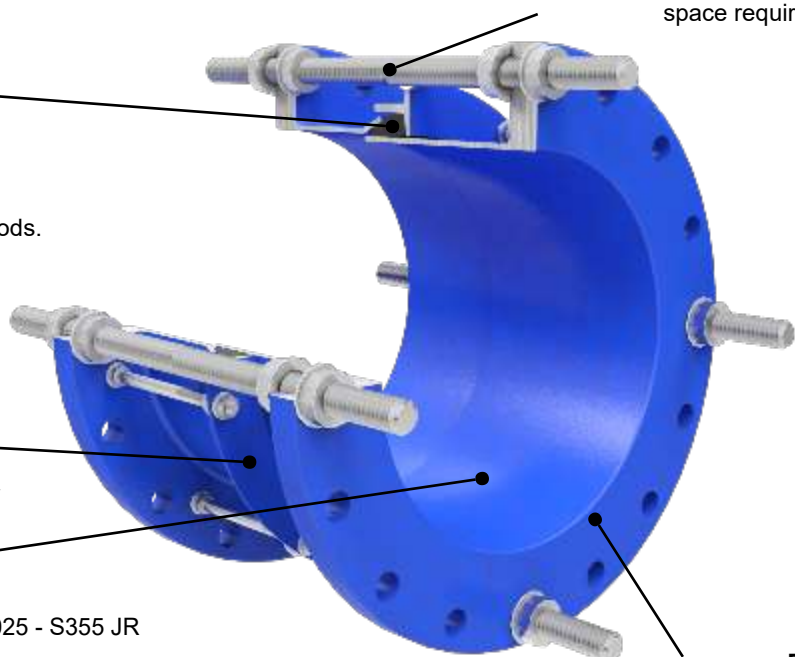
Accommodates for 50mm of longitudinal adjustment

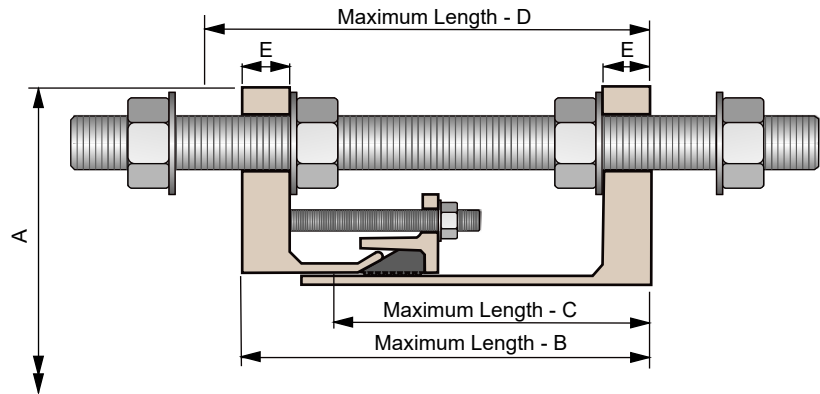
Flared ends to provide deep gasket chamber and allow for maximum possible pipe adjustment

**Flanges**  
Steel SABS 1431 Gr. 350 WA or EN 10025 - S355 JR

Flanges are flat faced as standard

Flanges available to SANS 1123 or BS 4504 or EN 1092 in pressure ratings of PN10 to PN40 as standard





## Dismantling Joint PN10

Flange Details		Flange To Flange Details					Tie Rod Details		
Nom	Drilling	Flg. Thickness	Flg. OD	Nominal Lg.	Minimum Lg.	Maximum Lg.	Steel Tie Rod		
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Dia x Length (mm)	No.	Total Weight of DJ (kg)
50	PN10	17	165	194	175	213	M16 x 300	4	8
80	PN10	17	200	194	175	213	M16 x 300	4	10
100	PN10	17	220	194	175	213	M16 x 300	4	11
150	PN10	17	285	194	175	213	M20 x 310	4	17
200	PN10	20	340	194	175	213	M20 x 310	4	24
250	PN10	19	395	194	175	213	M24 x 330	4	32
300	PN10	19	445	194	175	213	M24 x 330	4	40
350	PN10	18	505	295	270	320	M20 x 430	4	58
400	PN10	18	565	295	270	320	M24 x 440	4	69
450	PN10	23	615	300	275	325	M24 x 450	4	88
500	PN10	23	670	300	275	325	M24 x 460	5	97
550	PN10	23	730	300	275	325	M27 x 470	5	110
600	PN10	23	780	300	275	325	M27 x 470	5	118
650	PN10	23	835	300	275	325	M27 x 480	6	130
700	PN10	23	895	300	275	325	M27 x 480	6	145
800	PN10	23	1015	300	275	325	M27 x 500	6	168
900	PN10	25	1115	307	277	337	M30 x 520	6	214
1000	PN10	25	1230	307	277	337	M30 x 530	7	250
1100	PN10	38	1340	320	290	350	M33 x 540	7	295
1200	PN10	38	1466	320	290	350	M33 x 570	8	430
1400	PN10	38	1675	320	290	350	M39 x 600	8	535
1500	PN10	38	1785	320	290	350	M39 x 610	9	635
1600	PN10	38	1915	320	290	350	M39 x 630	9	728
1800	PN10	38	2115	320	290	350	M45 x 650	11	890
2000	PN10	60	2325	440	390	490	M45 x 810	12	1 040
2200	PN10	60	2550	440	390	490	M52 x 840	13	2 740
2400	PN10	60	2760	462	412	512	M52 x 880	14	2 040

**Note:** Flanges as standard are Flat Faced Drilled to SANS 1123/3 specifications up to DN1000 and to BS EN1009-2 for larger sizes. Flanges are available with raised faces upon request.

## Materials & Relevant Standards

### Flange Drilling

BS EN1092-1 ISO7005

### Flange Adaptor

**Body** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

**End Rings/Sleeve** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

### Flanged Spigot

**Flange** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

**Spigot** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

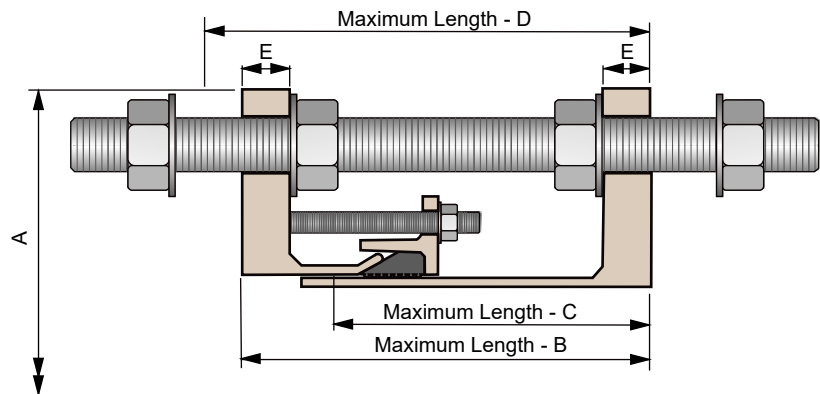
### Gaskets

ISO 4633

### Steel Tie Rods & Nuts

**Tie Rods, Tie Rods, Nuts, Studs and Washers** - Hot Dipped Galvanised to SANS 763

**Alternatively** - Stainless Steel 304 or 316



**Dismantling Joint Dimensions PN16**

Flange Details		Flange To Flange Details					Tie Rod Details		
Nom	Drilling	Flg. Thickness	Flg. OD	Nominal Lg.	Minimum Lg.	Maximum Lg.	Stainless Steel Tie Rod		
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Dia x Length (mm)	No.	Total Weight of DJ (kg)
50	PN16	17	165	194	175	213	M16 x 300	4	8
80	PN16	17	200	194	175	213	M16 x 300	4	10
100	PN16	17	220	194	175	213	M16 x 300	4	11
150	PN16	17	285	194	175	213	M20 x 310	4	17
200	PN16	20	340	194	175	213	M20 x 310	4	24
250	PN16	19	405	194	175	213	M24 x 330	4	32
300	PN16	19	460	194	175	213	M24 x 330	4	40
350	PN16	18	520	295	270	320	M24 x 450	4	65
400	PN16	18	580	295	270	320	M27 x 460	4	76
450	PN16	23	640	300	275	325	M27 x 470	5	98
500	PN16	23	715	300	275	325	M30 x 480	5	122
550	PN16	23	775	300	275	325	M30 x 490	5	135
600	PN16	23	840	300	275	325	M33 x 500	5	155
650	PN16	23	860	300	275	325	M33 x 510	6	155
700	PN16	23	910	300	275	325	M33 x 520	6	165
800	PN16	23	1025	300	275	325	M36 x 540	8	192
900	PN16	25	1125	307	277	337	M36 x 570	10	252
1000	PN16	25	1255	307	277	337	M39 x 590	10	308
1100	PN16	38	1355	320	290	350	M39 x 610	12	439
1200	PN16	38	1485	320	290	350	M45 x 640	10	531
1400	PN16	38	1685	320	290	350	M45 x 660	14	646
1500	PN16	38	1820	320	290	350	M52 x 770	12	830
1600	PN16	38	1930	320	290	350	M52 x 800	12	905
1800	PN16	38	2130	320	290	350	M52 x 810	16	1 078
2000	PN16	60	2345	462	412	512	M56 x 1020	18	1 900
2200	PN16	60	2555	462	412	512	M56 x 1040	20	2 147
2400	PN16	60	2765	462	412	512	M56 x 1070	24	2 469

**Note:** Flanges as standard are Flat Faced Drilled to SANS 1123/3 specifications Up to DN1000 and to BS EN1009-2 for larger sizes. Flanges are available with raised faces upon request.

## Materials & Relevant Standards

### Flange Drilling

BS EN1092-1 ISO7005

### Flange Adaptor

**Body** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

**End Rings/Sleeve** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

### Flanged Spigot

**Flange** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

**Spigot** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

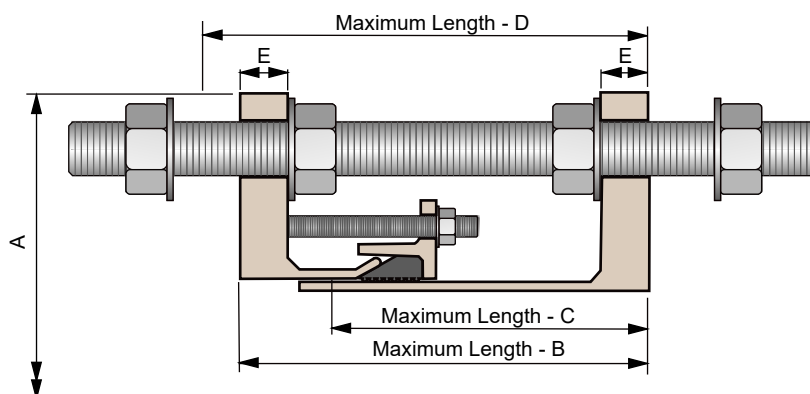
### Gaskets

ISO 4633

### Steel Tie Rods & Nuts

**Tie Rods, Tie Rods, Nuts, Studs and Washers** - Hot Dipped Galvanised to SANS 763

**Alternatively** - Stainless Steel 304 or 316



**Dismantling Joint Dimensions PN25**

Flange Details		Flange To Flange Details					Tie Rod Details		
Nom	Drilling	Flg. Thickness	Flg. OD	Nominal Lg.	Minimum Lg.	Maximum Lg.	Stainless Steel Tie Rod		
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Dia x Length (mm)	No.	Total Weight of DJ (kg)
50	PN25	18	165	194	175	213	M16 x 300	4	8
80	PN25	18	200	194	175	213	M16 x 300	4	10
100	PN25	18	235	194	175	213	M16 x 320	4	11
150	PN25	18	300	194	175	213	M20 x 330	4	17
200	PN25	25	340	194	175	213	M24 x 350	4	24
250	PN25	25	425	194	175	213	M27 x 350	4	32
300	PN25	25	485	194	175	213	M27 x 350	4	40
350	PN25	25	565	302	277	327	M30 x 480	4	90
400	PN25	25	620	302	277	327	M33 x 490	4	105
450	PN25	25	670	302	277	327	M33 x 500	5	120
500	PN25	25	730	302	277	327	M33 x 510	5	135
550	PN25	25	785	302	277	327	M36 x 530	5	150
600	PN25	25	845	302	277	327	M36 x 540	5	165
650	PN25	25	895	302	277	327	M36 x 550	6	195
700	PN25	25	960	302	277	327	M39 x 570	6	210
800	PN25	25	1086	307	277	337	M45 x 630	6	280
900	PN25	25	1185	307	277	337	M45 x 630	7	316
1000	PN25	38	1320	320	290	350	M52 x 740	7	521
1200	PN25	60	1530	462	290	350	M52 x 770	8	640
1400	PN25	60	1755	462	412	512	M56 x 980	9	1185
1600	PN25	60	1975	462	412	512	M56 x 1010	10	1520

**Note:** Flanges as standard are Flat Faced Drilled to SANS 1123/3 specifications up to DN1000 and to BS EN1009-2 for larger sizes. Flanges are available with raised faces upon request.

## Materials & Relevant Standards

### Flange Drilling

BS EN1092-1 ISO7005

### Flange Adaptor

**Body** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

**End Rings/Sleeve** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

### Flanged Spigot

**Flange** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

**Spigot** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

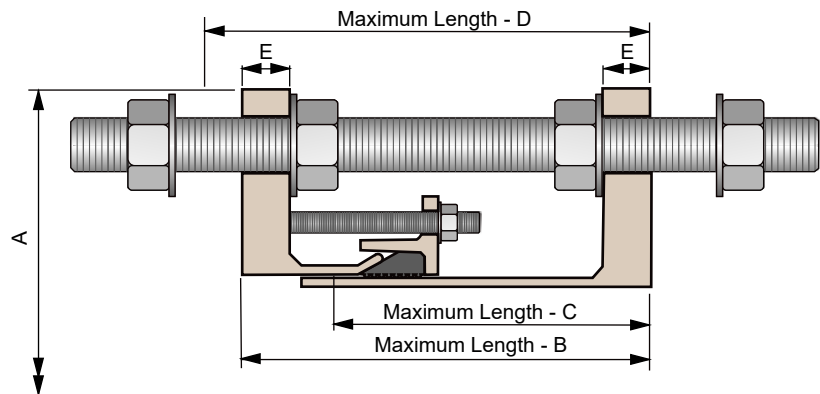
### Gaskets

ISO 4633

### Tie Rods & Nuts

**Tie Rods, Tie Rods, Nuts, Studs and Washers** - Hot Dipped Galvanised to SANS 763

**Alternatively** - Stainless Steel 304 or 316



**Dismantling Joint Dimensions PN40**

Flange Details		Flange To Flange Details					Tie Rod Details		
Nom	Drilling	Flg. Thickness	Flg. OD	Nominal Lg.	Minimum Lg.	Maximum Lg.	Stainless Steel Tie Rod		
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Dia x Length (mm)	No.	Total Weight of DJ (kg)
50	PN40	17	165	194	175	213	M16 x 300	4	8
80	PN40	17	200	194	175	213	M16 x 300	4	10
100	PN40	25	235	194	175	213	M20 x 320	4	11
150	PN40	25	285	194	175	213	M24 x 330	4	17
200	PN40	25	375	194	175	213	M27 x 350	4	24
250	PN40	25	450	194	175	213	M30 x 370	4	32
300	PN40	25	515	194	175	213	M30 x 380	4	40
350	PN40	25	580	307	277	337	M33 x 520	4	115
400	PN40	25	660	307	277	337	M36 x 540	4	140
450	PN40	25	685	307	277	337	M36 x 550	5	149
500	PN40	25	755	307	277	337	M39 x 570	5	175
550	PN40	38	835	320	290	350	M45 x 600	5	292
600	PN40	38	890	320	290	350	M45 x 620	5	310
650	PN40	38	945	320	290	350	M45 x 630	6	365
700	PN40	38	995	320	290	350	M45 x 640	6	380
800	PN40	38	1140	320	290	350	M52 x 680	6	472
900	PN40	38	1250	320	290	350	M52 x 700	7	568
1000	PN40	38	1360	320	290	350	M52 x 720	8	872
1200	PN40	38	1575	320	290	350	M56 x 780	10	1649
1400	PN40	60	1795	462	412	512	M56 x 980	14	1650
1600	PN40	60	2025	462	412	512	M64 x 1040	14	1996

**Note:** Flanges as standard are Flat Faced Drilled to SANS 1123/3 specifications up to DN600 and to BS EN1009-2 for larger sizes. Flanges are available with raised faces upon request.

## Materials & Relevant Standards

### Flange Drilling

BS EN1092-1 ISO7005

### Flange Adaptor

**Body** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

**End Rings/Sleeve** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

### Flanged Spigot

**Flange** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

**Spigot** - Ductile Iron: BS 2789 Gr. 420/12 or Rolled Steel to EN 10025 - S355 JR Fusion Bonded Epoxy Coated to 300 microns

### Gaskets

ISO 4633

### Steel Tie Rods & Nuts

**Tie Rods, Tie Rods, Nuts, Studs and Washers** - Hot Dipped Galvanised to SANS 763

**Alternatively** - Stainless Steel 304 or 316



REXUS KII Coupling Products is a comprehensive range of Couplings, Stepped Couplings, Flanged Adaptors and Dismantling Joints. Other products manufactured by REXUS include:



## Airflo

Variable Orifice Air Valves

Series ESP and ERP Variable Orifice Air Valves is a triple function valve with automatic surge protection with ESP for Water and ERP for Waste Water applications.

Valves are manufactured in fusion bonded epoxy coated Steel or all Stainless Steel 304 or 316. The top cover, jointing and internal trim are in Stainless Steel 304 or 316.

Valves are available in sizes DN25 to DN300 and for pressure ratings PN10 to PN100



## Checkflo

Nozzle Check Valves and Silen Check Valves

CHECKFLO Nozzle Check Valves are available in the reliable Central Shaft design as well as the Annular Disc design for superior surge protection and efficient low head pipeline operation. CHECKFLO also provides Silent Check Valves.

Valves are available in a variety of materials and trim options in both short and long face to face dimensions.

Valves are available in sizes DN50 to DN1200 and for pressure ratings PN10 to PN64



## Veroflo

Fabricated Fittings and Basket Strainers

VEROFLO Fabricated Fittings and Basket Strainers are manufacture to the highest possible standards with stringent quality control.

All products are traceable from drawing to final completion. All coatings are Fusion Bonded Epoxy coating to 300 microns as standard

Fitting and Strainers are available in sizes DN50 to DN1600 and for pressure ratings PN10 to PN64.



## KII

Double Offset Butterfly Valves

KII Double Offset Butterfly Valves are designed for high performance. The disc is specifically profiled to prevent flutter under low flow conditions and the gearbox is liberally designed with precision gearing to prevent backlash and for ease of operation.

Valves are available in sizes DN200 to DN1600 and for pressure ratings PN10 to PN40