

# MATERIAL SPECIFICATIONS

## COUPLINGS

<b>Centre Sleeve</b>		
<b>Dedicated</b>		
Up to 140mm OD	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997
Over 140mm OD	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
<b>Ranger</b>		
Up to 300mm OD (315 -332)	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
Over 300mm OD (incl. 322-340)	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997
<b>End Ring</b>		
<b>Dedicated</b>		
Up to 328mm OD	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997
Over 328mm OD	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
<b>Ranger</b>		
Up to 600mm OD	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997

## FLANGE ADAPTORS

<b>Flange Adaptor Body</b>		
<b>Dedicated</b>		
Up to 140mm OD	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997
Over 140mm OD	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
<b>Ranger</b>		
Up to 600mm (315-332mm)	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997
	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
<b>End Ring</b>		
<b>Dedicated</b>		
Up to 328mm OD	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997
Over 328mm OD	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
<b>Ranger</b>		
Up to 600mm OD	Ductile Iron	BS EN 10025:2004 Grade FE430A BS EN 10025:2004
<b>Table Flange</b>		
	Steel Plate	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275



## RUBBER COMPRESSION SEALING GASKET: MATERIAL

<b>E.P.D.M</b>	SABS 974:1986 related ISO 4633:1983 BS EN 681-1:1996 Nitrile sealing gaskets available on request.
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Certified Non Toxic for use on potable water distribution systems in accordance with BS 6920 (WRAS approved)

## BOLTS: MATERIAL

<b>LOW Carbon Unalloyed Steel</b>	SABS 1143:1977 Grade 4.8 (8.8 for higher pressure) BS 970-1:1996
<b>Hot Dipped Galvanised</b>	SABS 763:1988 BS EN ISO 1461:1999
<b>Electro Galvanised</b>	BS EN 12329:2000/ BS EN 12330:2000
<b>Stainless Steel</b>	Available on request

## NUTS: MATERIAL

<b>LOW Carbon Unalloyed Steel</b>	SABS 135:1991 BS 970-1:1996
<b>Electro Galvanised</b>	BS EN 12329:2000/ BS EN 12330:2000
<b>Hot Dipped Galvanised</b>	BS 729:1986

## STUDS: MATERIAL

<b>Carbon Steel</b>	BS 970-1:1996
<b>Stainless Steel</b>	Available on request

## LOCATING CENTER REGISTER

<b>Removable Centre Register</b>	Mild Steel Cadmium Plated
<b>Fixed Centre Register</b>	Mild Steel

## HARNESS LUGS

<b>Steel Plate</b>	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
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## HARNESS / RESTRAINED FLANGE ADAPTOR TIE ROD BOLTS

<b>Carbon Steel Bar</b>	SANS 1431:1987 Grade 300 WA BS 970-1:1996 Grades 4.8 or 8.8 Dependant on Pressure
<b>Coating</b>	Uncoated or Electro-galvanised zinc to BSEN 12329:2000/ BSEN 12330:2000
<b>Stainless Steel</b>	Available on request

## SPECIALISED COATINGS

Fusion Bonded Epoxy to SABS 1217:1984

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