

 Eskom	SOW	Camden Power Station
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Title: **Scope of Work for Supply and Delivery of Pipes at Camden Power Station.**

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Authorized by






Y. Mgwebi
**Ash Plant System
Engineer**

M. Ngubeni
**Auxiliary
Maintenance Line
Manager**

O. Tilodi
**Auxiliary
Engineering Line
Manager**

M. Mathabatha
**Engineering
Manager**

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1. Introduction

Spares are essential assets for maintaining the plant. Common plant spares are required to ensure the availability, redundancy and reliability of the plant. It is essential that a contract is established on an as and when required basis in ensuring spares availability in order to improve the plant availability.

2. Supporting Clauses

2.1 Scope

The scope of work specifies the required spares specification, quantities of spares to be supplied by the supplier, supplier's requirements and conditions for acceptance.

2.1.1 Purpose

The purpose of this document is to provide a detailed scope of work to establish a contract with the supplier for the supply of spares on an "as and when required basis" and ensure that all listed maintenance spares in Appendix A are supplied to Camden Power Station and are delivered in-time and meet the required specifications.

2.1.2 Applicability

The document applies to Camden Power Station Auxiliary Engineering Department and Auxiliary Maintenance Department.

2.1.3 Normative References

[1] **ISO 9001** – Quality Management Systems

2.1.4 Informative References

Not applicable

2.2 Definitions

Not applicable

2.3 Abbreviations

N/A

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2.4 Roles and Responsibilities

2.4.1 The *Supplier*

- Supply procured spares as requested by the *Employer*
- Confirm correctness of the supplied spares information
- Provide spares technical information in accordance with this scope of work
- Timeously inform the *Employer* of any delays or when outstanding or additional information from the *Employer* is required
- Responsible to ensure that a quality product is delivered
- Responsible to ensure that every effort is made to keep to the agreed program and plan
- Provide all required technical datasheets and/or product brochures
- Conform to all the other requirements stipulated in this document
- Supply all the necessary test sheets/results, where applicable

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3. Scope of Work

The scope comprises the following but is not limited to supply and delivery of the pipes required at Camden PS on an “as and when” required basis as per the attached appendix list Camden Power Station (PS).

The scope of work include the following pipe as per the appendix list:

- Ash Line pipes
- Other pipes

3.1 Description of the work to be done by the *Supplier*

The following are the *Supplier's* requirements:

- The *Contractor* must supply the spares required on an “as and when” required basis.
- However the *Supplier* may only supply the quantity as specified by the *Employer* in the individual order instruction and does not imply that the Supplier is entitled to supply the total number indicated in the Spares Procurement Limit over the agreed contract period.
- Transport the material required to the *Clients'* premises.
- Always have a contingency spares in case of emergency during the duration of the contract.
- The *Contractor* must then supply all the necessary documentation data material, material certificates.
- The *Supplier* must supply the following additional information data sheet, material certificates, detailed specification.
- The spare must be to the exact same specification as installed in the plant and specified on this works information.
- The *Supplier* shall supply preservation and storage procedure/s, where applicable.
- Spares will be opened for inspection, counting and quality control check at the *Employer's* stores.





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4. Acceptance

This document has been seen and accepted by:

Name	Designation	Signatures
Giel Kruger	Ash Plant Technician	
Jeffery Nkuna	Water Treatment Plant Technician	
Nosipho Mjelo	Senior Advisor	
Natasha Naidu	Water Treatment Plant System Engineer	

5. Revisions

Date	Rev.	Compiler	Remarks
March 2022	01	Y Mgwebi	Original Issue

6. Development Team

- Yamkela Mgwebi
- Giel Kruger
- Nosipho Mjelo
- Natasha Naidu

7. Acknowledgements

N/A

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8. Appendix A – Technical Specification

8.1 Ash Lines

Description	Material number	Full Description	Quantities for 5 Years	Usage in 5 Years
Y-piece	39071	CASTING: TYPE: FORGING; DIMENSIONS: ID 300 X OD 346 X LG 990 MM; MATERIAL: CAST IRON; REFERENCE NO: 0.36/21209; MINIMUM OPERATING PRESSURE: 16 BAR; MINIMUM OPERATING TEMPERATURE: 23 DEG C; FLANGE THICKNESS: 1 OF 25 AND 2 OF 25; HOLES: 12; BOLTS: M20; MATERIAL: CAST IRON GRADE 17; PCD: 406 MM; CHEMICAL ANALYSIS %, C: 3.6, SI: 2.66, MN: 0.75, CR: 0.48, P: 0.046, S: 0.09	15	11
Flange 400 PCD	598800	FLANGE, PIPE: TYPE: WELD ON; BORE: 323.9 MM; PIPE SIZE: 300 MM; MATERIAL: MILD STEEL; RATING: 16 BAR; STYLE: FF; GRADE: SANS 1123; PCD: 400 MM; BOLT HOLES: 12; BOLT HOLE SIZE: 22 MM; FLANGE DIAMETER: 445 MM; FLANGE: 300 MM; FLANGE: 22 MM THK; BOLT: M20; PCD 400 MM; ASHLINE WELDON FLANGE (2015)	4000	311
Flange 400 PCD	256426	FLANGE, PIPE: TYPE: WELD ON; BORE: 445 MM; PIPE SIZE: 300 MM; MATERIAL: MS; RATING: 10 BAR; STYLE: LAPPED FACE; SPECIFICATION: BS 4504 TABLE 10; PCD: 400 MM; BOLT HOLES: 12; BOLT HOLE SIZE: M22; FLANGE DIAMETER: 445 MM	1500	102
Flange 405 PCD	599698	FLANGE: TYPE: WELD ON; DIMENSIONS: ID 323.9 X OD 457.2 X THK 19 MM; MATERIAL: STL; STYLE: LAPPED FACE; RATING: 10 BAR; SPECIFICATION: BS 10T-D; PCD 406.4 MM; 12 HOLES; 22.2 MM HOLES; ASH LINE PIPE FLANGE 406 MM	1500	115
Flange Big (ceramic pipe)	606428	FLANGE: TYPE: LAPPED FACE; DIMENSIONS: ID 327 X OD 528 X THK 22 MM; MATERIAL: MS; NUMBER OF HOLES: 12; HOLE DIAMETER: 24 MM; ASH LINE X-OVER FLANGE; PCD: 470 MM	150	20

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Expansion bellow (300NB)	576277	BELLOWS, PRESSURE: TYPE: HYDRO FORMED; PRESSURE RANGE: 16 BAR; MATERIAL: SS; DIMENSIONS: DIA 300 MM; APPLICATION: ASH PUMP DISCHARGE; END CONNECTION TYPE: FLANGE BS10/D; FLANGE THK: 35MM; FACE TO FACE: 260MM; BENNOX INSERT AND THREE ADJUSTABLE TIRODS MUST BE SUPPLIED	300	25
Expansion bellow (250 NB)	598801	BELLOWS, PRESSURE: TYPE: HYDRO FORMED; PRESSURE RANGE: 16 BAR; MATERIAL: SS; END CONNECTION TYPE: FLANGE; WITH BENNOX INSERTAND THREE ADJUSTABLE TIRODS; FLANGE: FACE TO FACE 225 MM; PCD 355 MM; 12 X 26 MM HOLE SIZE; FLANGE 30 MM THK; SANS 1123-1600/3; ASH PUMP BOTTOM BELLOWS	90	70
300NB Ash line pipe (Flanged)	55810	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 323.9 MM; MATERIAL: MS; LENGTH: 12 M; WALL THICKNESS: 8 MM; CONSTRUCTION: SEAMLESS; END TYPE: FLANGE; MAXIMUM OPERATING PRESSURE: 16 BAR; SCHEDULE: 30; MAXIMUM OPERATING TEMP: 23 DEG C; SPECIFICATION: BS 4504-T10; APPLICATION: ASH PLANT; PIPE OD 324MM	9000 m	703
300NB Ash line pipe (not flanged)	256842	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 300 MM; MATERIAL: MS; LENGTH: 12 M; WALL THICKNESS: 8 MM; SPECIFICATION: SABS 719; APPLICATION ASH LINES	10000 m	4887m
250NB pipe (not flanged)	707197	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: DIA NB250; MATERIAL: MILD STEEL; LENGTH: 12 M; WALL THICKNESS: 6 MM; MAXIMUM OPERATING PRESSURE: 16 BAR; MAXIMUM OPERATING TEMP: 5-40 DEG C; GRADE: SABS 719; 3.1 MATERIAL CERTIFICATE TO BE SUPPLIED WITH EVERY DELIVERY	3000 m	0
400NB pipe (not flanged)	707199	PIPE BEND, METALLIC: DIAMETER: NB 300; CONNECTION: WELDED; MATERIAL: MILD STEEL; GRADE: SABS 719; DEGREE: 90 DEG; RADIUS: SHORT; PRESSURE RATING: 16 BAR; WALL THICKNESS: 8 MM; 3.1 MATERIAL CERTIFICATE TO BE SUPPLIED WITH EVERY DELIVERY	3000 m	0

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400NB Flange	707201	FLANGE: TYPE: PIPE; DIMENSIONS: OD 580 X THK 35 MM; MATERIAL: MS; STYLE: LAPPED FACE; RATING: 16 BAR; SPECIFICATION: CLASS SABS 1123-16000/3; PCD: 525 MM; NUMBER OF HOLES: 16; HOLE DIAMETER: 26 MM; DATA SHEET TO BE SUPPLIED WITH EVERY DELIVERY	3000 m	0
Clamp 600 x 300NB	252951	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 323 MM; MATERIAL: SS; LENGTH: 500 MM; SUPPL P/N: TUC1-0325; TWO BOLTS FOR TENSIONING; BORE 300MM; CLAMP RUBBER LINED; CLAMP RANGE 320 - 330MM	330	26
Johnson Coupling 300 x 300 NB	231665	COUPLING: TYPE: JOHNSON; SIZE: DIA 323.9 X LG 300 MM; MATERIAL: STL; COUPLING RANGE: 315 - 328MM	6000	53
Johnson Coupling 600 x 300NB	231664	COUPLING, PIPE: SIZE: ID 323.9 X WD 600 MM; MATERIAL: STL; SPECIFICATION: JOHNSON (VJ); COLOR CODING: GREEN; MEDIA FOR WHICH DESIGNED: ASH WATER; TYPE AQUALOCK COUPLINGS; FOR 300NB PIPE; SEAMLESS	1000	79
Clamp 356-366mm (GRP pipe)	554194	CLAMP, PIPE REPAIR: PIPE SIZE: 350 MM; MATERIAL: SS; PRESSURE RATING: 16 BAR; MANUF P/N: TUC1-0361-40; WIDTH: 500MM/600MM; TWO BOLTS FOR TENSIONING; CLAMP RUBBER LINED WITH HIGH PRESSURE RUBBER NO: 2008/05746; RANGE: 356-366MM	100	8
U-Bolts	562731	BOLT, U: NOMINAL SIZE: 323.9 MM; DIAMETER: M16; LOAD RATING: 695 KG; INSIDE LENGTH: 380 MM; THREAD LENGTH: 80 MM; THREAD: 1.5 MM; MATERIAL: STL; INSIDE WIDTH: 353 MM; PIPE NOMINAL BORE IS 300MM	220	185
Reducer 250-200mm	563029	REDUCER, PIPE: TYPE: CONCENTRIC; NOMINAL SIZE: 200 X 250 MM; CONNECTION: NPT X FNPT; MATERIAL: CARBON STEEL; GRADE: SABS/SANS719; RATING: 16 BAR; SCHEDULE: 40; STRUCTURE: SEAMLESS; MEDIA FOR WHICH DESIGNED: ASH WATER	40	27
Ash Pump Reducer 300-250mm	563030	REDUCER, PIPE: TYPE: CONCENTRIC; NOMINAL SIZE: 300 X 250 MM; CONNECTION: NPT X FNPT; MATERIAL: CARBON STEEL; GRADE:	10	5

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		SABS/SANS719; RATING: 16 BAR; SCHEDULE: 40; STRUCTURE: SEAMLESS; MEDIA FOR WHICH DESIGNED: ASH WATER		
Intermediate Pipe 90' Bend 250NB	528368	BEND, PIPE: MATERIAL: MILD STEEL; DEGREE: 90 DEG; SPECIFICATION: SABS 719; MEDIA FOR WHICH DESIGNED: WATER; 250NB; WALL THICKNESS 6MM; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	55	43
Intermediate Pipe 45' Bend 250NB	528369	BEND, PIPE: MATERIAL: MILD STEEL; DEGREE: 45 DEG; SPECIFICATION: SABS 719; MEDIA FOR WHICH DESIGNED: WATER; 100NB; WALL THICKNESS 6MM; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	20	14
Flange – PCD 350mm – 12 hole	629164	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 275 X OD 405 MM; MATERIAL: STEEL; RATING: 16 BAR; PCD: 350 MM; NUMBER OF HOLES: 12; HOLE DIAMETER: 22 MM; TEST CERTIFICATE MUST BE SUPPLIED WITH EVERY DELIVERY	400	0
Flange – PCD 360mm – 12 hole	635594	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 275 X OD 405 X THK 15 MM; MATERIAL: STEEL; RATING: 0-16 BAR; PCD: 360 MM; NUMBER OF HOLES: 12; HOLE DIAMETER: 22 MM; TEST CERTIFICATE MUST BE SUPPLIED WITH EVERY DELIVERY	20	0
Flange – PCD 360mm – 8 hole	636824	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 275 X OD 405 MM; MATERIAL: STEEL; RATING: 16 BAR; PCD: 360 MM; NUMBER OF HOLES: 8; HOLE DIAMETER: 22 MM; TEST CERTIFICATE TO BE SUPPLIED WITH EVERY DELIVERY	16	8
Flange – PCD 355mm – 8 hole	669955	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 275 X OD 405 MM; MATERIAL: STEEL; STYLE: LAPPED FACE; RATING: 16 BAR; FLANGE PCD: 355 MM; NUMBER OF HOLES: 8; HOLE DIAMETER: 22 MM; MATERIAL CERTIFICATE TO BE SUPPLIED	20	0
Flange – PCD 355mm – 12 hole	635594	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 275 X OD 405 X THK 15 MM; MATERIAL: STEEL; RATING: 0-16 BAR; PCD: 360 MM; NUMBER OF HOLES: 12;	400	0

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		HOLE DIAMETER: 22 MM; TEST CERTIFICATE MUST BE SUPPLIED WITH EVERY DELIVERY		
FLANGE: ID 116 X OD 220	685015	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 116 X OD 220 MM; MATERIAL: CARBON STEEL; RATING: PN16; PCD: 180 MM; NUMBER OF HOLES: 8; HOLE DIAMETER: 18 MM; PRESSURE: 16 BAR; MATERIAL CERTIFICATE TO BE SUPPLIED	20	0
80NB x 6m x 5.5mm Supply pipe	250438	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: ID 80 X OD 88.9 MM; MATERIAL: MS; LENGTH: 6 M; WALL THICKNESS: 5.5 MM; CONSTRUCTION: SEAMLESS; END TYPE: MACHINED; SCHEDULE: 40; SPECIFICATION: BS 3601-ZZ; API 5L GR A; WEIGHT 11.3KG/M	80	7
100NB x 6m x 6mm supply pipe	250434	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: ID 100 X OD 114.3 MM; MATERIAL: MS; LENGTH: 6 M; WALL THICKNESS: 6 MM; CONSTRUCTION: SEAMLESS; END TYPE: BEVELLED; SCHEDULE: 40; SPECIFICATION: BS 3601-22; API 5L GR A; SUPPLIER NOTE: ONLY WITH 3.2 MATERIAL CERTIFICATE WILL BE ACCEPTED	80	10
Bend, 90' , 100NB	528366	BEND, PIPE: OUTSIDE DIAMETER: 108 MM; CONNECTION: NPT; MATERIAL: MILD STEEL; DEGREE: 90 DEG; RADIUS: LONG; SPECIFICATION: SABS 62; MEDIA FOR WHICH DESIGNED: WATER; 100NB; WALL THICKNESS 6MM; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	30	19
FLANGE:ID 120 X OD 215 MM	623468	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 120 X OD 215 MM; MATERIAL: STEEL; RATING: 16 BAR; FLANGE PCD: 180 MM; NUMBER OF HOLES: 4; HOLE DIAMETER: 18 MM	260	10
Manifold Clamp 107 – 117mm	252952	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 112 MM; MATERIAL: SS; LENGTH: 200 MM; SUPPL P/N: TUC1-0112; TWO BOLTS FOR TENSIONING; BORE 100MM; CLAMP RUBBER LINED; CLAMP RANGE 107 -117MM	50	46
Bend 90' Elbow SS - 90mm	528363	ELBOW: SIZE: 90 MM; CONNECTION: FLANGE; MATERIAL: SS; DEGREE: 90 DEG; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	50	18

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Bend 45' Elbow	528365	BEND, PIPE: OUTSIDE DIAMETER: 86 MM; CONNECTION: FNPT; MATERIAL: MILD STEEL; DEGREE: 45; RADIUS: LONG; SPECIFICATION: SABS 62; MEDIA FOR WHICH DESIGNED: WATER; 80NB; WALL THICKNESS 6MM; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	50	12
2" SS 90' Bend	61712	BEND, PIPE: OUTSIDE DIAMETER: 86 MM; CONNECTION: FNPT; MATERIAL: MILD STEEL; DEGREE: 45; RADIUS: LONG; SPECIFICATION: SABS 62; MEDIA FOR WHICH DESIGNED: WATER; 80NB; WALL THICKNESS 6MM; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	20	13
Threaded bar 12mm x 1m	85234	ROD, THREADED: DIAMETER: 12 MM; THREAD: 1.75 MM; LENGTH: 1 M; MATERIAL: MS; FULL THREAD	4000	233
Threaded Bar 16mm x 1m	85235	ROD, THREADED: DIAMETER: 16 MM; LENGTH: 1 M; MATERIAL: MS; FULL	300	186
Threaded Bar 20mm x 1m	85236	ROD, THREADED: DIAMETER: 20 MM; LENGTH: 1 M; MATERIAL: MS; FULL	400	318
Threaded Bar 30mm x 1m	238640	ROD, THREADED: DIAMETER: 30 MM; THREAD: 3.5 MM; LENGTH: 1 M; MATERIAL: HTS	180	129
Threaded Bar 36mm x 1m	254770	ROD, THREADED: DIAMETER: 36 MM; LENGTH: 1 M; MATERIAL: MS	300	180
Plate 10mm	583807	PLATE, METAL: DIMENSIONS: WD 1.2M X LG 3M X THK 10MM; MATERIAL: GR430A; WEIGHT: 2826 KG; PROCESS: HOT ROLLED; SPECIFICATION: BS 1501-161; GRADE: 430A; CERTIFICATE 3.1 WILL BE REQUIRED ON EVERY DELIVERY; NO MATERIAL WILL BE ACCEPTED WITHOUT THE CERTIFICATE	30	25
Plate 20mm	298167	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 20 MM; MATERIAL: MILD STEEL GRADE: S355JA	8	4
Plate 30mm	596610	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 30 MM; MATERIAL: MILD STEEL; WEIGHT: 706.77 KG; GRADE: S355JA	8	1
Plate 40mm	596611	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 40 MM; MATERIAL: MILD STEEL; WEIGHT: 942.36 KG; GRADE: S355JA	3	1

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Plate 50mm	595471	PLATE, METAL: DIMENSIONS: WD 2.5 M X LG 1.2 M X THK 50 MM; MATERIAL: MILD STEEL; WEIGHT: 1.178 T; GRADE: 350WA; STELL PLATE FOR ASH PUMP BASE	3	1
Layflat - 20 Bar	604183	PIPE, NON METALLIC: NOMINAL PIPE SIZE DESIGNATION: 150 MM; MATERIAL: RUBBER; LENGTH: 100 M; WALL THICKNESS: 3 MM; MAXIMUM OPERATING TEMP: 40 DEG C; MAXIMUM OPERATING PRESSURE: 20 BAR; EXTERIOR COLOUR: BLACK	2000	1500
Flexible Pipe Clamp	593070	CLAMP, HOSE: TYPE: CLIP; INSIDE DIAMETER: 150 MM; WIDTH: 30 MM; MATERIAL: STL; FASTENING DEVICE TYPE: BOLT/NUT; CLAMP SIZE SHOULD BE IN A RANGE: 154 TO 168MM	140	112
Lifting Liner	39068	LINER: TYPE: LIFTING; DIMENSIONS: DIA 570 MM X LG 1.175 M; MATERIAL: CI; SUPPL P/N: R33198; ID: 750 MM; LENGTH 1: 1175 MM; LENGTH 2: 900 MM; HEIGHT: 970 MM; THK: 23 MM; LINER MUST HAVE 4 TAPPED HOLES ON TOP FOR FASTENING THE SPINDLE PLATE	8	4
AWR Barge Suction Pipe	605469	PIPE, ASSEMBLY: CONNECTION: FLANGE; DIMENSIONS: DIA 250 MM; MATERIAL: GLASS REINFORCED PLASTIC; 250NB GRP OFF SET SUCTION PIPE; COMPLETE WITH CARRYING COLLAR; SUCTION TO SUPPORT FLANGE FACE TO CENTRE: 787 MM; SUPPORT FLANGE TO BOTTOM FLANGE: 928 MM; SUCTION FLANGE PCD: 355 MM; HOLE DIAMETER: 20 MM; NUMBER OF HOLES: 12; THK: 50 MM; OD: 396 MM; SPECIFICATION: BS 10 TABLE E; CARRYING COLLAR SUPPORT FLANGE OUTSIDE DIAMETER: 764 MM; THK: 30; NUMBER OF HOLES: 4; HOLE DIAMETER: 19 MM; HOLES ARE 525 MM AND 310 MM APART; 4 BRACES TO SUPPORT COLLAR; AWR BARGE PUMP SUCTION PIPE	2	1
AWR Barge Discharge First 90' Bend	605479	PIPE BEND, NON METALLIC: DIAMETER: 250 MM; CONNECTION: FLANGE; MATERIAL: GLASS REINFORCED PLASTIC; DEGREE: 90 DEG; GRP 250NB - 200NB REDUCTION	2	0

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		FLANGE 90 DEG BEND; FACE TO CENTRE VERTICAL: 585 MM; HORIZONTAL: 411 MM; COMPLETE WITH FLOATING FLANGE ON 200NB; MATERIAL: SS; THK: 15 MM; NUMBER OF HOLES: 8; HOLE DIAMETER: 22 MM; PCD: 297 MM; OD: 343 MM; FIXED FLANGE 250NB PCD: 355 MM; NUMBER OF HOLES: 12; HOLE DIAMETER: 22 MM; SPECIFICATION: BS 10 TABLE E; COMPLETE WITH TAPPING POINT ON TOP; FACE TO CENTRE HORIZONTAL: 300 MM; TAPPING POINT OD: 72 MM; ID: 30 MM; LG: 200 MM; FLANGE OD: 102 MM; THK: 40 MM WITH FLOATING FLANGE; FLOATING FLANGE PCD: 125 MM; OD: 160 MM; THK: 11 MM; ID: 80 MM; MATERIAL: SS; NUMBER OF HOLES: 4; AWR BARGE PUMP FIRST 90 BEND		
AWR Barge Distance Piece	605421	PIPE, NON METALLIC: NOMINAL PIPE SIZE DESIGNATION: 250 MM; MATERIAL: GLASS REINFORCED PLASTIC; LENGTH: 290 MM; WALL THICKNESS: 40 MM; RATING: 16 BAR; MAXIMUM OPERATING PRESSURE: 16 BAR; PIPE MUST BE COMPLETED WITH TWO FLANGEES; FACE TO FACE: 290 MM; PCD: 355 MM; NUMBER OF HOLES: 12; HOLE DIAMETER: 22 MM; SPECIFICATION: BS 10 TABLE E; AWR BARGE PUMP DISTANCE PIECE	2	1
AWR Barge Discharge Second 90' Bend	605468	PIPE BEND, NON METALLIC: DIAMETER: 250 MM; CONNECTION: FLANGE; MATERIAL: GLASS REINFORCED PLASTIC; DEGREE: 90 DEG; GRP 250NB 90 DEG BEND; FACE TO CENTRE VERTICAL: 610 MM; HORIZONTAL: 605 MM; COMPLETE WITH FLANGES; THK: 50 MM; PCD: 355; NUMBER OF HOLES: 12; HOLE DIAMETER: 22 MM; SPECIFICATION: BS 10 TABLE E; COMPLETE WITH TAPPING POINT ON SIDE; TAPPING SIDE FACE TO CENTRE VERTICAL: 406 MM; HORIZONTAL: 300 MM; TAPPING POINT OD: 50 MM; ID: 25 MM; LG: 130 MM; FLANGE THICKNESS: 17 MM; FLANGE OD WITH FLOATING FLANGE: 63 MM; FLOATING FLANGE OVER TAPPING POINT; MATERIAL: SS; PCD: 85 MM;	4	2

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		NUMBER OF HOLES: 4; HOLE DIAMETER: 14 MM; THK: 10 MM; AWR BARGE PUMP SECOND 90 BEND		
600NB x 6 m Rubber pipe	585538	HOSE, NON METALLIC: INSIDE DIAMETER: 600 MM; LENGTH: 6 M; CONNECTION: FLANGE; MATERIAL: RUBBER SYNTHETIC BRAIDED; MAXIMUM OPERATING PRESSURE: 700 KPA; TYPE: AWR; EXTERIOR COLOR: BLACK; MEDIA FOR WHICH DESIGNED: PULP AND SLURRY; MANUF P/N: CFX-6010/6; LINER: HIGH WET ABRASION RESISTANT NATURAL RUBBER COMPOUND; COVER: NR/SBR BLEND COMPOUND ABRASION WEATHER OZONE RESISTANT; REINFORCEMENT: HIGH STRAIN WIRE HELIX EMBEDDED IN PLIES OF HIGH STRENGTH STEEL TYRE CORD; FLANGE: ROTATING ON D-RING; AWR BARGE MANIFOLDS INTERCONNECTOR; TABLE 1000/3 FLANGES; INCLUDE STORAGE REQUIREMENTS ON DATA PACK; PROVIDE MATERIAL DATA SHEET ON EVERY DELIVERY	18	12
600NB x 4 m Rubber pipe	-	HOSE, NON METALLIC: INSIDE DIAMETER: 600 MM; LENGTH: 4 M; CONNECTION: FLANGE; MATERIAL: RUBBER SYNTHETIC BRAIDED; MAXIMUM OPERATING PRESSURE: 700 KPA; TYPE: AWR; EXTERIOR COLOR: BLACK; MEDIA FOR WHICH DESIGNED: PULP AND SLURRY; MANUF P/N: CFX-6010/6; LINER: HIGH WET ABRASION RESISTANT NATURAL RUBBER COMPOUND; COVER: NR/SBR BLEND COMPOUND ABRASION WEATHER OZONE RESISTANT; REINFORCEMENT: HIGH STRAIN WIRE HELIX EMBEDDED IN PLIES OF HIGH STRENGTH STEEL TYRE CORD; FLANGE: ROTATING ON D-RING; AWR BARGE MANIFOLDS INTERCONNECTOR; TABLE 1000/3 FLANGES; INCLUDE STORAGE REQUIREMENTS ON DATA PACK; PROVIDE MATERIAL DATA SHEET ON EVERY DELIVERY	2	0

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600NB 70' HDPE Pipe Bend	647835	PIPE BEND, NON METALLIC; DIAMETER: 600 MM; CONNECTION: FLANGE; MATERIAL: HDPE; DEGREE: 70 DEG; RADIUS: SHORT; FLANGE OD: 790 MM; NUMBER OF HOLE: 20; HOLE DIAMETER: M24; PCD: 730 MM; THICKNESS: 43 MM; ROTATING FLANGE	2	1
Coupling 150 – 165mm	248376	COUPLING, PIPE: SIZE: 165-150 MM; CONNECTION: COMPRESSION; MATERIAL: MS	50	22
Coupling 159 – 182mm	625034	COUPLING, PIPE: SIZE: 159-182 MM; CONNECTION: SLIP ON; MATERIAL: STL/UPVC; RATING: 16 BAR; MEDIA FOR WHICH DESIGNED: WATER	100	52
Coupling 230 – 247mm	0625377	COUPLING, PIPE: SIZE: 230-247 MM; CONNECTION: SLIP ON; MATERIAL: STL/UPVC; RATING: 16 BAR; MEDIA FOR WHICH DESIGNED: WATER	40	23
Coupling 250 – 267mm	629165	COUPLING, PIPE: SIZE: 265-250 MM; CONNECTION: SLIP ON; MATERIAL: STL/UPVC; RATING: 16 BAR; COLOR CODING: RED; MEDIA FOR WHICH DESIGNED: WATER	40	23
Flat Bar 25mm x 6mm x 6m	557417	BAR, FLAT: WIDTH: 25 MM; LENGTH: 6 M; THICKNESS: 6 MM; MATERIAL: MS	100	48
Flat Bar 40mm x 6mm x 6m	017081	BAR, FLAT: WIDTH: 40 MM; LENGTH: 6 M; THICKNESS: 6 MM; MATERIAL: MS BS 4360; PROCESS: HOT ROLLED; GRADE: 43A; WEIGHT: 1.88 KG/M	700 kg	500 kg
Flat Bar 50mm x 6mm x 6m	017082	BAR, FLAT: WIDTH: 50 MM; LENGTH: 6 M; THICKNESS: 6 MM; MATERIAL: MS BS 4360; PROCESS: HOT ROLLED; GRADE: EN43A; WEIGHT: 2.36 KG/M; 14.16 KG/LENGTH	15 000 kg	10 345 kg
CW Screen – Frame	623469	FRAME: TYPE: STRAINER SCREEN; SIZE: WD 2.06 M X LG 3.5 M X THK 45 MM MM; MATERIAL: STL GALV;	70	36

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8.2 Other Spares

Description	Stock no:	Full Description	Quantities for 5 Years
Ranger coupling 150-165	248376	COUPLING, PIPE: SIZE: 165-150 MM; CONNECTION: COMPRESSION; MATERIAL: MS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	30
Ranger coupling 109-128	585942	COUPLING, PIPE: SIZE: 109-128 MM; CONNECTION: BW; MATERIAL: CI; SPECIFICATION: KLAMFLEX RANGER; STYLE: STRAIGHT; COLOR CODING: RED; MEDIA FOR WHICH DESIGNED: SULPHURIC ACID; PRIMER COATED	6
Ranger coupling 250-267	588425	COUPLING, PIPE: SIZE: 250-267 MM; CONNECTION: BOLTED; MATERIAL: CI; SPECIFICATION: AWWA C219-01; STYLE: KLAMFLEX RANGER END CAP; COLOR CODING: BLUE; MEDIA FOR WHICH DESIGNED: POTABLE WATER; APPLICATION: FIRE; OIL SKIMMING PLANT; PRIMER CAP; 250NB; PART NO: 044273	8
Ranger coupling 159-182	248396	COUPLING, PIPE: SIZE: 150 MM; CONNECTION: CLAMP; MATERIAL: CI; OD RANGE 159-182 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	8
Johnson coupling 220-235	248377	COUPLING, PIPE: SIZE: 235-220 MM; CONNECTION: COMPRESSION; MATERIAL: MS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	4
Fenner Flex couplings F70, Flange	48211	FLANGE: TYPE: FLEXIBLE BUSHED; DIMENSIONS: ID 58 MM; MATERIAL: STL; FENNAFLEX, COMPLETE, ITEM MUST BE ORIGINAL PACKED; REFERENCE NO: F70H	6

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Fenner Flex couplings F70, Rubber	18138	INSERT, FLEXIBLE COUPLING: TYPE: TIRE; SIZE: ID 110 X OD 180 X THK 75 MM; MATERIAL: RUBBER; PART NO: F70	6
Fenner Flex couplings F80	237352	COUPLING, SHAFT FLEXIBLE: TYPE: TIRE; BORE DIAMETER: 44.5-42 MM; MATERIAL: RUBBER/STL; 211 MM OUTSIDE DIAMETER; 107 MM LENGTH, WITH A TAPER LOCK, KEY WAY: 12.6 MM WD X 3.2 MM DP; H2 CW BOOSTER PUMP; A3; SERIAL NO: SAS/A80/175, SUPPLIER: JOHN CRANE POWER STREAM	4
Plascon coupling PVC 110mm	528989	COUPLING, SHAFT FLEXIBLE: TYPE: TIRE; BORE DIAMETER: 44.5-42 MM; MATERIAL: RUBBER/STL; 211 MM OUTSIDE DIAMETER; 107 MM LENGTH, WITH A TAPER LOCK, KEY WAY: 12.6 MM WD X 3.2 MM DP; H2 CW BOOSTER PUMP; A3; SERIAL NO: SAS/A80/175, SUPPLIER: JOHN CRANE POWER STREAM	12
Galvansed 100mm	243238	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 100 MM; MATERIAL: STL GALV; LENGTH: 6 M; END TYPE: FLANGE 4 HOLES	15
Galvansed 150mm	243239	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 150 MM; MATERIAL: STL GALV; LENGTH: 6 M; END TYPE: FLANGE 6 HOLES	2
Galvansed 200mm	243237	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 200 MM; MATERIAL: STL GALV; LENGTH: 6 M; END TYPE: FLANGE (8) HOLES	100
Galvansed 212mm	528362	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 212 MM; MATERIAL: GALV STL; LENGTH: 9 M; WALL THICKNESS: 8 MM; END TYPE: FLANGE; PCD 295MM; HOLE 8; DISTANCE BETWEEN HOLES 115MM; BOLT SIZE M16X90MM	20
PVC 110 mm	528514	PIPE, NON METALLIC: NOMINAL PIPE SIZE DESIGNATION: 97 MM; MATERIAL: PVC (HDPE); LENGTH: 50 MM; WALL THICKNESS: 16.5 MM; TYPE: AQUA FLOW; REFERENCE NO: PE100; CLASS 10; CERTIFICATION: ISO9001, ISO14001	7

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Lay-flats pipes NB 80 (100M)	590162	PIPE, NON METALLIC: MATERIAL: RUBBER; NOMINAL PIPE SIZE DESIGNATION: 80 MM; WALL THICKNESS: 1.5 MM; MAXIMUM OPERATING PRESSURE: 400 KPA; CONSTRUCTION: LAY FLAT; LENGTH: 40 M; RE-CIRCULATING PUMP 3 DISCHARGE PIPE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER.	80
Lay-flats pipes NB 150 (100M)	248371	HOSE, NON METALLIC: INSIDE DIAMETER: 150 MM; LENGTH: 100 M; MAXIMUM OPERATING PRESSURE: 12 BAR; TYPE: LAY FLAT; EXTERIOR COLOR: BLUE	7
Stainless steel pipe 81mm	528988	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 110 MM; MATERIAL: SS; LENGTH: 6 M; WALL THICKNESS: 3 MM; CONSTRUCTION: STRAIGHT; END TYPE: BW; MAXIMUM OPERATING PRESSURE: 100 KPA; APPLICATION: SULPHURIC ACID	2
Stainless steel pipe 110mm	585944	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 110 MM; MATERIAL: SS; LENGTH: 6 M; WALL THICKNESS: 3 MM; CONSTRUCTION: STRAIGHT; END TYPE: BW; MAXIMUM OPERATING PRESSURE: 100 KPA; APPLICATION: SULPHURIC ACID	8
Pipes, 125mm	661373	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 10 MM; MATERIAL: CARBON STEEL BS 1501 224 490A; LENGTH: 6 M; WALL THICKNESS: 5 MM; END TYPE: FLANGE	15
Pipes, 75mm	661371	PIPE, NON METALLIC: NOMINAL PIPE SIZE DESIGNATION: 110 MM; MATERIAL: HDPE; LENGTH: 30 M; WALL THICKNESS: 3 MM	15
pipes, 50mm	661366	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 50 MM; MATERIAL: CARBON STEEL BS1501 224 490A; LENGTH: 6 M; WALL THICKNESS: 5 MM	4
Coupling, pipe, 75mm	605956	COUPLING, PIPE: SIZE: 75 MM; CONNECTION: COMPRESSION; MATERIAL: STL; RATING: 16 BAR; MEDIA FOR WHICH DESIGNED: WATER; RANGE: 72-85 MM	6

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Flexible pipe clamps	593070	CLAMP, HOSE: TYPE: CLIP; INSIDE DIAMETER: 150 MM; WIDTH: 30 MM; MATERIAL: STL; FASTENING DEVICE TYPE: BOLT/NUT; CLAMP SIZE SHOULD BE IN A RANGE: 154 TO 168MM	20
Clamps, hose, 76-51mm	61872	CLAMP, HOSE: INSIDE DIAMETER: 76-51 MM; MATERIAL: SS; FASTENING DEVICE TYPE: WORM DRIVE; PART NO: GS40	20
Clamp 180 mm	612127	CLAMP, TUBE: TYPE: RUBBER LINED; COMMERCIAL SIZE: 180 MM; MATERIAL: SS; APPLICATION: FIBRE CEMENT PIPES; LENGTH: 300 MM; RANGE: 180-184 MM; PART NO: TUC1-0184	3
Clamp 188 mm	612128	CLAMP, TUBE: TYPE: RUBBER LINED; COMMERCIAL SIZE: 188 MM; MATERIAL: SS; APPLICATION: FIBRE CEMENT PIPES; LENGTH: 300 MM; RANGE: 188- 194 MM; PART NO: TUC1-0193	3
Coupling 2'	257012	CLAMP, HOLDING: CLAMP MATERIAL: STL GALV; TAP SIZE: 2 IN; APPLICATION SPLIT COUPLING CW EPDM & GASKET	10
Coupling 3'	257016	CLAMP, HOLDING: CLAMP MATERIAL: STL GALV; TAP SIZE: 3 IN; APPLICATION SPLIT COUPLING CW EPDM & GASKET	10
Coupling, clamp, 63mm	579104	COUPLING, PIPE: SIZE: 50 MM; CONNECTION: CLAMP ON; MATERIAL: DI; STYLE: SHOULDERED; MEDIA FOR WHICH DESIGNED: WATER; PIPE OD: 60.3MM; BOLT SIZE: M10X55	6
Coupling, pipe, 114mm, ring, rubber	235300	COUPLING, PIPE: SIZE: 114 MM; CONNECTION: RING; MATERIAL: RUBBER; BLSA RYC 4 IN, GR, LP AND SP, R AND F SERIES	10
Coupling, pipe, 165mm, ring, rubber	235301	COUPLING, PIPE: SIZE: 165 MM; CONNECTION: RING; MATERIAL: RUBBER; BLSA RYC, GR, LP AND SP R AND F SERIES; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	10
Coupling, pipe, 89mm, ring, rubber	235298	COUPLING, PIPE: SIZE: 89 MM; CONNECTION: RING; MATERIAL:	10

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		RUBBER; BLSA RYC GR, LP AND SP, R AND F SERIES	
Coupling, pipe, 218mm, ring, rubber	235299	COUPLING, PIPE: SIZE: 219 MM; CONNECTION: RING; MATERIAL: RUBBER; BLSA RYC 8 IN, GR, LP AND SP, R AND F SERIES	10
Pipe, MTLC: 323.8mm, MS, LG 9.144m, 324 OD	55810	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 323.9 MM; MATERIAL: MS; LENGTH: 12 M; WALL THICKNESS: 8 MM; CONSTRUCTION: SEAMLESS; END TYPE: FLANGE; MAXIMUM OPERATING PRESSURE: 16 BAR; SCHEDULE: 30; MAXIMUM OPERATING TEMP: 23 DEG C; SPECIFICATION: BS 4504-T10; APPLICATION: ASH PLANT; PIPE OD 324MM	660
Pipe 25 mm	250927	PIPE, METALLIC: MATERIAL: GS; NOMINAL PIPE SIZE DESIGNATION: 25 MM; END TYPE: PLAIN; LENGTH: 6 M; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	6
Pipe 15 mm	250928	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 15 MM; MATERIAL: STL GALV; LENGTH: 6 M; END TYPE: PLAIN	6
Pipe 50 mm	250929	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 50 MM; MATERIAL: STL GALV; LENGTH: 6 M; END TYPE: PLAIN	6
PVC coupling, 50mm	579344	COUPLING, PIPE: SIZE: 50 MM; CONNECTION: COMPRESSION; MATERIAL: PVC; MEDIA FOR WHICH DESIGNED: WATER; COUPLING LENGTH: 201MM	8
PVC coupling, 63mm	579342	COUPLING, PIPE: SIZE: 63 MM; CONNECTION: COMPRESSION; MATERIAL: PVC; MEDIA FOR WHICH DESIGNED: WATER; APPLICATION: WATER TREATMENT PLANT; COUPLING LENGTH: 230MM	8
PVC coupling, 90mm	579341	COUPLING, PIPE: SIZE: 90 MM; CONNECTION: COMPRESSION; MATERIAL: PVC; MEDIA FOR WHICH DESIGNED: WATER; COUPLING LENGTH: 323MM	8

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PVC coupling, 100mm	579343	COUPLING, PIPE: SIZE: 100-114 MM; CONNECTION: COMPRESSION; MATERIAL: MS; COLOR CODING: ORANGE; MEDIA FOR WHICH DESIGNED: WATER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	16
PIPE,MTLC:TUC1-0097;ID 80 X OD 92 MM;SS	252877	PIPE, METALLIC: MATERIAL: SS; NOMINAL PIPE SIZE DESIGNATION: ID 80 X OD 92 MM; LENGTH: 150 MM; TWO BOLTS FOR TENTIONING; CLAMP RUBBER LINER; CLAMP RANGE 92 - 102 MM; PART NO: TUC1-0097, SUPPLIER: UNKNOWN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	8
PIPE,MTLC:TUC1-0112;112 MM;SS;LG 200 MM	252952	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 112 MM; MATERIAL: SS; LENGTH: 200 MM; TWO BOLTS FOR TENSIONING; BORE 100MM; CLAMP RUBBER LINED; CLAMP RANGE 107 - 117MM; PART NO: TUC1-0112	10
PIPE,MTLC:TUC1-0163;168 MM;SS;LG 200 MM	252948	PIPE, METALLIC: MATERIAL: SS; NOMINAL PIPE SIZE DESIGNATION: 168 MM; LENGTH: 200 MM; TWO BOLTS FOR TENSIONING; BORE 150MM; CLAMP RUBBER LINED; CLAMP RANGE 158 - 168MM; PART NO: TUC1-0163, SUPPLIER: UNKNOWN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	10
PIPE,MTLC:TUC1-0223;218 MM;SS;LG 300 MM	252949	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 218 MM; MATERIAL: SS; LENGTH: 300 MM; TWO BOLTS FOR TENSIONING; BORE 200MM; CLAMP RUBBER LINED; CLAMP RANGE 218 - 228MM; PART NO: TUC1-0223	50

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PIPE,MTLC:TUC1-0276;270 MM;SS;LG 300 MM	252950	PIPE, METALLIC: MATERIAL: SS; NOMINAL PIPE SIZE DESIGNATION: 270 MM; LENGTH: 300 MM; TWO BOLTS FOR TENSIONING; BORE 250MM; CLAMP RUBBER LINED; CLAMP RANGE 271 - 281MM; PART NO: TUC1-0276, SUPPLIER: UNKNOWN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	8
PIPE,MTLC:TUC1-0325;323 MM;SS;LG 500 MM	252951	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 323 MM; MATERIAL: SS; LENGTH: 500 MM; TWO BOLTS FOR TENSIONING; BORE 300MM; CLAMP RUBBER LINED; CLAMP RANGE 320 - 330MM; PART NO: TUC1-0325	20
Flanges, pipe, 225mm	554699	FLANGE: TYPE: SLIP ON; DIMENSIONS: DIA 9 IN; MATERIAL: SS; STYLE: DRILLED TO SUIT 2IN PIPE; RATING: BS 10 - TABLE D; GRADE: 316L; SPECIFICATION: BLIND; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004; BS10-TABLE D	20
Flanges, pipe, 100mm	528996	FLANGE: TYPE: MOUNTING; DIMENSIONS: ID 100 X OD 185 X THK 8 MM; MATERIAL: SS GR 316; HOLE: 4; HOLE DIA: M16; DISTANCE BETWEEN TWO HOLES: 105MM; PCD: 145MM	20
Flanges, pipe, 125mm	528997	FLANGE: TYPE: MOUNTING; DIMENSIONS: ID 142 X OD 250 X THK 15 MM; MATERIAL: SS GR 316; HOLE: 8; HOLE DIA: M16; DISTANCE BETWEEN TWO HOLES: 80MM; PCD: 210MM	20
Flanges, pipe, 150mm	528995	FLANGE: DIMENSIONS: ID 170 X OD 280 X THK 15 MM; MATERIAL: SS GR 316; HOLE: 8; HOLE DIA: M16; DISTANCE BETWEEN TWO HOLES: 90MM; PCD: 235MM	20

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