

|                                                                                   |               |                      |
|-----------------------------------------------------------------------------------|---------------|----------------------|
|  | Scope of Work | Camden Power Station |
|-----------------------------------------------------------------------------------|---------------|----------------------|

Title: **Scope of Work For Supply & Refurbishment of Common Plant Valves Spares at Camden Power Station For 36 Months.**

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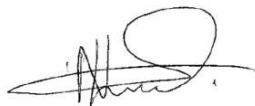
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## **1. Introduction**

Valves are essential part of the Auxiliary plant systems. In this document Auxiliary plant refers to the following plant areas: Water treatment plant, Hydrogen plant, Ash plant and effluent systems. The availability of spare valves is of paramount importance for effective plant maintenance. Common plant spares are required to ensure the availability, redundancy and reliability of the plant. It is essential that a 36 Months contract is establish 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 valves specifications, quantities of spares to be supplied by the supplier, supplier' requirements and conditions for acceptance. The scope also includes the refurbishment of some valves which are Marked RF in Appendix A.

#### **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**

This scope is applicable to all the interested stakeholders involved in the supply and delivery of spares at Camden Power Station.

#### **2.1.3 Normative References**

- [1] ISO 9001 Quality Management Systems.
- [2] 32-1034 Eskom Procurement and Supply Chain Management Procedure

#### **2.1.4 Informative References**

- [3] 240-105020315 Eskom Standard for Low Pressure Valves
- [4] 240-56227413 Hydrogen System Specification

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## **2.2 Definitions**

| <b>Term</b>          | <b>Definition</b>                                                                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Refurbishment        | Restoration to a sustainable usable state or as near as possible to new state (within agreed limits).                                                                                                  |
| Quality Control Plan | A document specifying the activities to be inspected throughout the execution of the project, inclusive of test methods, procedures and acceptance criteria. (This term is equivalent to QIP and ITP). |
| Supplier             | Entity supplying the final product to the client.                                                                                                                                                      |

## **2.3 Abbreviations**

| <b>Abbreviation</b> | <b>Definition</b>                              |
|---------------------|------------------------------------------------|
| QCP                 | Quality Control Plan                           |
| DCF                 | Data Capture Form                              |
| ISO                 | International Organization for Standardization |
| OEM                 | Original Equipment Manufacture                 |
| RF item             | Refurbish item                                 |

## **2.4 Related/Supporting Documents**

- Not applicable

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### 3. Scope of Work

The scope of work for the supply, delivery and refurbishment includes all the listed spares on appendix A for a duration of 36 months. The supply of spares will be on an as and when required where a purchase order will be placed with the supplier requesting a number of spares required by the employer. Each spare is identifiable by means of Material number, description, and quantities.

***(Note: the quantities are estimated number of spares required therefore might not be exactly the number of spares delivered through the duration of the contract. The spares will be delivered only as and when the spares are required)***

This scope of work stipulates all the requirements from the supplier to the employer. The process to be followed in acceptance of the spares, packaging.

#### 3.1 Supplier's requirements

The following are the *Supplier's* requirements:

- Supply procures spares as requested by the *Employer* through an order number.
- Collection and transportation of RF items from Camden to the workshop and back to Camden through an order number.
- The contractor to fully comply with Eskom Standard for Low Pressure Valves (240-105020315).
- The *Supplier* will ensure that the correct spare is supplied and will be liable for damage at his/her cost if the incorrect or defective spare/s is supplied and Eskom will issue a Non-conformance to the contractor. If a damaged valve is delivered, it is the responsibility of the contractor or supplier to replace/correct the valve deficiencies, at the contractors own cost.
- The *Employer's* (i.e. Eskom Holdings SOC) acceptance of delivered spare/s does not absolve the *Supplier* of the liability to supply the correct and/or defect free spare.
- The *Supplier* may, at the *Employer's* discretion, be given access to the plant to verify the information of the installed spare.
- The *Supplier* will supply any additional information such as brochure, general arrangement drawing, certificates, detailed specification and datasheets where applicable.
- The *Supplier* shall supply preservation and storage procedure/s, where applicable.
- Where the spare requires testing, the *Supplier* will inform the *Employer* to invite or make available the *Employer's* System Engineer to witness the tests.
- 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.

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- Where the spare requires testing, QC, inspection, strip and quote etc. the *Supplier* will inform the *Employer* to witness the activities.
- Invite the *Employer* or representative thereof three (3) working days in advance for witness/hold points, if applicable, as agreed.
- It is the responsibility of the manufacturer or contractor to perform a pressure test before delivering the valves to Eskom to ensure that the valves are capable of perform under the specified operating conditions. Pressure test result and certificates will form part of the final data book and be reviewed and accepted by Eskom.
- The contractor shall ensure that Valves are tested for leakage at the specified working pressures. Each valve shall be tested according to their own design to ensure compliance with standards. If the tested leakage rate is acceptable in all flow directions (bi or unit directional as per requirements), the valve is fit for use.
- Contractor shall ensure that all valves shall be protected against corrosion.

NB: For the RF items the scope of work will vary according to the defect, hence the final scope of work for each purchased order will be finalised after the valve has been stripped and inspected. The following is the generic scope for RF items:

- ✓ Dismantle valve.
- ✓ Clean exterior of valve.
- ✓ Clean interior of valve.
- ✓ Clean components.
- ✓ Inspect components.
- ✓ Lap valve body seats / spindle seats. At least 90% sealing area is to be achieved across the seat before Eskom Engineering inspection.
- ✓ Repair (or replace if necessary) all damaged components
- ✓ Reassemble valve using new consumables, if necessary
- ✓ Lubricate.

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#### **4. Acceptance**

This document has been seen accepted by the following

| <b>Name &amp; Surname</b> | <b>Designation</b>                         |
|---------------------------|--------------------------------------------|
| Nosipho Mjelo             | Senior Advisor common plant maintenance    |
| Giel Kruger               | Senior Technician common plant maintenance |
| Jeffery Nkuna             | Senior Technician common plant maintenance |
| Natasha Naidu             | System Engineer Water Treatment Plant      |

#### **5. Revisions**

| <b>Date</b> | <b>Rev.</b> | <b>Compiler</b> | <b>Remarks</b> |
|-------------|-------------|-----------------|----------------|
| March 2022  | 01          | GN Nkuna        | Original Scope |

#### **6. Development Team**

- Gift Nkuna
- Yamkela Mgwebi
- Nosipho Mjelo
- Giel Kruger
- Jeffrey Nkuna

#### **7. Acknowledgements**

- Not applicable

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## 8. Appendix – Spares Required List

### Ash\_H2 & CW Plant valves

| Material No. | Description                                 | Detailed Description                                                                                                                                                                                                                                                                                          | Quantity | RF | None RF |
|--------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|---------|
| 704768       | Solenoid valve 1.2mm orifice, Normally open | VALVE, SOLENOID: PIPE SIZE: 1/4 IN; STYLE: 1 WAY; POTENTIAL: 24 VDC; DESIGN RATING: 0-50 BAR; CONNECTION: FNPT; BODY MATERIAL: SS GR302; OPERATED: ELECTRIC; ENCLOSURE RATING: IP65; MEDIUM: HYDROGEN GAS; POWER: 19.7 W; ORIFICE SIZE: 1.2 MM; SOFTGOODS: SEAL EPDM; SUPPL P/N: TPL22353                     | 5        |    | x       |
| 666729       | N2 Regulator                                | REGULATOR, PRESSURE: TYPE: NITROGEN; INLET PRESSURE: 0-30000 KPA; OUTLET PRESSURE: 0-1600 MPA; CONNECTION: BOLT ON 22.57 MM; BODY MATERIAL: STL; MATERIAL DATA SHEET TO BE SUPPLIEDVENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE). | 5        |    | x       |

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|        |                                        |                                                                                                                                                                                                                                                                                                                   |   |  |   |
|--------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|---|
| 666728 | H2 Regulator                           | REGULATOR, PRESSURE: TYPE:HYDROGEN;INLET PRESSURE: 0-30000 KPA; OUTLET PRESSURE: 0-1600 MPA; CONNECTION: BOLT ON 22.57 MM; BODY MATERIAL: BRS; MATERIAL DATA SHET TO BE SUPPLIEDVENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).        | 8 |  | x |
| 660612 | Regen Flow switch                      | SWITCH, FLOW: MATERIAL: DIE-CAST ALUMINIUM; POTENTIAL: 12 V; CURRENT: 0.5 A; RANGE: 1.2-12 BAR; ACTION: (1) SPDT; CONNECTION: NPT 1/4 IN; ENCLOSURE: IP66; DIMENSIONS: WD 42 X LG 118 MM; PIPE CONNECTION: NPT 1/4 IN; MANUF P/N: PA: 011015978.001; MODEL NO: DK32/K2/S/A-EX; TYPE: REGEN FLOW SWITCH WITH VALVE | 2 |  | x |
| 623258 | Solenoid valve vessels                 | VALVE: TYPE: SAFETY; VALVE SIZE: 3/4 IN; DESIGN RATING: 150-350 BAR; TEMPERATURE RATING: 15-50 DEG C; CONNECTION: DN 6; OPERATED: SET PRESSURE; BODY MATERIAL: BRS; SUPPL P/N: V600/1                                                                                                                             | 2 |  | x |
| 570896 | VALVE:METERING;6 MM;2000 PSIG; 137 BAR | VALVE: TYPE: METERING; VALVE SIZE: 6 MM; DESIGN RATING: 2000 PSIG; 137 BAR; TEMPERATURE RATING: -23 TO 204 DEG C; CONNECTION: SCREWED; OPERATED: MANUAL; BODY MATERIAL: SS GR 316; MANUF P/N: SS-SS6MM-SC11; 5 SERIES; TUBE CONNECTION ARE 6 MM SC11 SPECIALLY CLEANED; -10 TO 400 F                              | 2 |  | x |

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|        |                                        |                                                                                                                                                                                                                                                                                                                                                                                                       |   |  |   |
|--------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|---|
| 569265 | VALVE,RELIEF:9.5MM X 3/4 INCH BSP      | VALVE, RELIEF: VALVE SIZE: NPT 1/2 X NPT 3/4 FEMALE IN; SET PRESSURE: 27.5 BAR; TEMPERATURE RATING: -40 TO 190 DEG C; CONNECTION: NPT 1/2 X NPT 3/4 MALE IN; BODY MATERIAL: SS; TRIM: SS; FACE TO FACE LENGTH: 116 MM; OPERATED: SPRING LOADED ENCLOSED DISCHARGE; APPLICATION: SAFETY VALVE; DESIGN RATING: 0.48-55.2 BAR; PRESSURE RANGE: 0.48-55.5 BAR; MANUFACTURER CODE: 64610 C 1293 - 27.5 BAR | 8 |  | x |
| 568996 | REGULATOR,PRESS:HYDROGEN;OUT 0-60 PSIG | REGULATOR, PRESSURE: TYPE: HYDROGEN; INLET PRESSURE: MAX 4000 PSIG; OUTLET PRESSURE: 0-60 PSIG; CONNECTION: FNPT 1/4 IN; BODY MATERIAL: SS GR 316L; MANUF P/N: 1R 40015K 3 POL 4B; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).                                                                                         | 2 |  | x |
| 600161 | REGULATOR,PRESS:HYDROGEN ;IN 400 BAR   | REGULATOR, PRESSURE: TYPE: HYDROGEN; INLET PRESSURE: 400 BAR; OUTLET PRESSURE: 0-100 BAR; CONNECTION: FNPT 1/4 IN; BODY MATERIAL: SS GR 316L; MANUF P/N: 1033634; REFERENCE NO: BS2-02-3-E; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).                                                                                | 3 |  | x |

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|        |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |  |   |
|--------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|---|
| 623339 | VALVE, SOLENOID: PIPE SIZE: G3/4 IN;<br>STYLE: 2; POTENTIAL                            | VALVE, SOLENOID: PIPE SIZE: G3/4 IN; STYLE: 2;<br>POTENTIAL: 230 VAC; DESIGN RATING: 0-40 BAR;<br>CONNECTION: BOLTED; BODY MATERIAL: BRS;<br>OPERATED: COIL; ENCLOSURE RATING: IP69;<br>MEDIUM: HYDROGEN GAS; POWER: 48 W;<br>CURRENT: 0.23 A; ORIFICE SIZE: DN 20;<br>APPLICATION: HYDROGEN VESSEL; SUPPL P/N:<br>GSR K0592790; CONFORMANCE TO PTB 03 ATEX<br>2095 X (CERTIFICATES TO BE PROVIDED);<br>CONFORMS TO CE 0102; TEMPERATURE CLASS: T4<br>130 DEG C | 2 |  | x |
| 247722 | VALVE, SOLENOID: PIPE SIZE: 1/4 IN;<br>STYLE: 1 WAY; POTENTIAL (ORIFICE<br>SIZE 3.2mm) | VALVE, SOLENOID: PIPE SIZE: 1/4 IN; STYLE: 1WAY;<br>POTENTIAL: 24 VDC; DESIGN RATING: 0-50 BAR;<br>BODY MATERIAL: SS GR 303; ENCLOSURE RATING:<br>IP65; MEDIUM: HYDROGEN GAS; POWER: 19.7 W;<br>ORIFICE SIZE: 3.2 MM; COIL: EMXX-F; SOFTGOODS:<br>SEAL EPDM; MANUF P/N: TPL22326; CATALOGUE<br>NO: PV XB262C007E; FLOW COEFFICIENT 0.30<br>MCUB/H, RESPONSE TIME 5-25 MS, TEMPERATURE<br>RANGE -20 TO 90 DEG CEL, CABLE 3 X 0.75 MM3, 4M<br>LG                  | 8 |  | x |
| 253063 | VALVE, SOLENOID: POTENTIAL: 24<br>VDC; DESIGN RATING: 3 MPA                            | VALVE, SOLENOID: POTENTIAL: 24 VDC; DESIGN<br>RATING: 3 MPA; CONNECTION: FNPT; BODY<br>MATERIAL: BRS; OPERATED: PRESSURE; MEDIUM:<br>HYDROGEN GAS; ORIFICE SIZE: 3/4 IN; SUPPL P/N:<br>EFX B 223 B5                                                                                                                                                                                                                                                             | 2 |  | x |

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|--------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|
| 247723 | VALVE, SOLENOID: PIPE SIZE: 1/4 IN;<br>STYLE: 1 WAY; POTENTIAL – (ORIFICE<br>SIZE: 1.2 | VALVE, SOLENOID: PIPE SIZE: 1/4 IN; STYLE: 1 WAY;<br>POTENTIAL: 24 VDC; DESIGN RATING: 0-50 BAR;<br>CONNECTION: FNPT 1/4 IN; BODY MATERIAL: SS GR<br>303; ENCLOSURE RATING: IP65; MEDIUM:<br>HYDROGEN GAS; POWER: 19.7 W; ORIFICE SIZE:<br>1.2 MM; COIL: EMXX-F; SOFTGOODS: SEAL EPDM;<br>MANUF P/N: TPL22326; CATALOGUE NO: PV<br>XB262C080E; FLOW COEFFICIENT 0.05MC UB/H,<br>RESPONSE TIME 5-25 MS, TEMPERATURE RANGE -<br>20 TO 90 DEG CEL, CABLE 3 X 0.75 MM3, 4M LG | 40 |   | x |
| 230133 | VALVE CHECK:DUAL FLOW;300 MM;16<br>BAR;CS                                              | VALVE, CHECK: TYPE: DUAL FLOW; VALVE SIZE:<br>300 MM; DESIGN RATING: 16 BAR; TEMPERATURE<br>RATING: 80 DEG C; CONNECTION: FLANGE; BODY<br>MATERIAL: CS; FACE TO FACE LENGTH: 1.12 M;<br>OPERATED: HANDWHEEL; MODEL NO: DP-DFV300-<br>NL-16-TABLE D-HW-80C, UNK; FLANGED TABLE D;<br>UNLINED, BALL SOLID ALUMINIUM INSERT WITH<br>URETHANE OUTER; BALL SIZE 305MM; SEAT: ROC-<br>TUFF WITH POLYURETHANE INSERT; FOR USE ON<br>THE ASH LINE                                 | 40 | x |   |
| 254653 | VALVE BALL:300<br>PU;HAND;NON RETURN<br>MM;STL                                         | VALVE, BALL: VALVE SIZE: 300 MM; BODY<br>MATERIAL: STL PU; OPERATED: HAND; TYPE: NON<br>RETURN; SUPPL P/N: DP-PBS-350; DIAMETER 350<br>MM, WITH STEEL PLATE                                                                                                                                                                                                                                                                                                               | 30 |   | x |

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|--------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|---|
| 245914 | VALVE GATE:300 MM;WEDGE;16 BAR;FLANGE    | VALVE, GATE: VALVE SIZE: 300 MM; TYPE: WEDGE; DESIGN PRESSURE: 16 BAR; DESIGN TEMPERATURE: -5 TO 30 DEG C; CONNECTION: FLANGE; FACE TO FACE LENGTH: 305 MM; BODY MATERIAL: HIGH GRADE STEEL; TRIM: DISC; ROCK TUFF; OPERATED: HANDWHEEL; SOFTGOODS: GLAND PACKING; TEMPERATURE RATING: -5 TO 30 DEG C; APPLICATION: SLURRY; SPECIAL FEATURES: DUAL ROTARY DISC; GRADE: CRS HIGH; DESIGN RATING: 16 BAR; SUPPL P/N: RDV300-HW; FABRICATED VALVE BODY | 100 | x |   |
| 584511 | VALVE RELF:100 MM;16 BAR;25 DEG C;FLANGE | VALVE, RELIEF: VALVE SIZE: 100 MM; SET PRESSURE: 16 BAR; TEMPERATURE RATING: 25 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CAST SG IRON; TRIM: BONNET CAST SG IRON; FACE TO FACE LENGTH: 350 MM; OPERATED: AUTOMATIC; APPLICATION: ASH LINE/SLURRY; DESIGN RATING: 16 BAR; PRESSURE RANGE: 0-16 BAR; MANUF P/N: DSARY                                                                                                                                | 40  | x |   |
| 234984 | VALVE MM;KNIFE;FLANGE;78 MM;STL GATE:300 | VALVE, GATE: VALVE SIZE: 300 MM; TYPE: KNIFE; CONNECTION: FLANGE; FACE TO FACE LENGTH: 78 MM; BODY MATERIAL: STL; OPERATED: HANDWHEEL; TEMPERATURE RATING: 80 DEG C; DESIGN RATING: 10 BAR; REFERENCE NO: LDHDISRL0300, UNK; BOLT SIZE 6 X M20                                                                                                                                                                                                      | 115 |   | x |

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|--------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| 230535 | VALVE GATE:200 MM;WEDGE DISC;FLANGE FF | VALVE, GATE: VALVE SIZE: 200 MM; TYPE: WEDGE DISC; CONNECTION: FLANGE FF; FACE TO FACE LENGTH: 290 MM; BODY MATERIAL: CI ASTM A126B; TRIM: BRZ; DISC CI BRZ FACING; STEM BRZ ASTM B16; OPERATED: HANDWHEEL; STEM DESIGN: THD; STYLE: BOLTED BONNET; TEMPERATURE RATING: 48.2 DEG C; DESIGN RATING: CL125; FLANGE THICKNESS 29MM; NUMBER OF HOLES 18; PCD IS 292MM TO TABLE D; FLANGE DIA 337MM | 35 | x |
| 552829 | VALVE GATE:100 MM;DUAL ROTARY DISC     | VALVE, GATE: VALVE SIZE: 100 MM; TYPE: DUAL ROTARY DISC; CONNECTION: FLANGE; FACE TO FACE LENGTH: 210 MM; BODY MATERIAL: SGI CAST; OPERATED: HANDWHEEL; STEM DESIGN: RISING SPINDLE OUTSIDE SCREW; TEMPERATURE RATING: 80 DEG C; APPLICATION: ASH WATER; GRADE: BS 4504; DESIGN RATING: 20 BAR; FLANGE DRILLED TO TABLE 10; DRILL DIA: 22CM; PCD: 180MM; HOLE: 8                               | 10 | x |
| 527428 | VALVE IN;WEDGE;FLANGE:200 MM;CS GATE:2 | VALVE, GATE: VALVE SIZE: 2 IN; TYPE: WEDGE; CONNECTION: FLANGE; FACE TO FACE LENGTH: 200 MM; BODY MATERIAL: CS; TRIM: ASTM A216 GR WBC; OPERATED: HANDWHEEL; STEM DESIGN: RISING STEM; STYLE: LINEAR; TEMPERATURE RATING: 15 DEG C; APPLICATION: EFF COOLING WATER; GRADE: WCB; DESIGN RATING: 650 KPA; SUPPL P/N: D36621; PCD 114MM; HOLES 4; HOLE DIA 17MM; DRILL TO BS10 TABLE D            | 10 | x |

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|        |                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |   |
|--------|-------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|
| 237334 | VALVE GATE:3<br>SPINDLE;FLANGE            | IN;RISING | VALVE, GATE: VALVE SIZE: 3 IN; TYPE: RISING<br>SPINDLE; CONNECTION: FLANGE; FACE TO FACE<br>LENGTH: 272 MM; BODY MATERIAL: CI ASTM A126;<br>TRIM: B62; OPERATED: MANUAL; TEMPERATURE<br>RATING: 232 DEG C; APPLICATION: CONDENSER<br>FILL UP; DESIGN RATING: PN16; PCD 146MM, NO OF<br>HOLES 4, HOLE DIA 17MM                                                                                                  | 26 |   | x |
| 623513 | VALVE GATE:4 IN;WEDGE;400 KPA;60<br>DEG C |           | VALVE, GATE: VALVE SIZE: 4 IN; TYPE: WEDGE;<br>DESIGN PRESSURE: 400 KPA; DESIGN<br>TEMPERATURE: 60 DEG C; CONNECTION: FLANGE;<br>FACE TO FACE LENGTH: 250 MM; BODY MATERIAL:<br>CAST IRON; TRIM: BRS; OPERATED: HANDWHEEL;<br>DESIGN RATING: CL125; PCD: 180 MM; NUMBER OF<br>HOLES: 8                                                                                                                         | 10 |   | x |
| 234226 | VALVE GATE:100<br>DISC;FLANGE             | MM;ROTARY | VALVE, GATE: VALVE SIZE: 100 MM; TYPE: ROTARY<br>DISC; CONNECTION: FLANGE; FACE TO FACE<br>LENGTH: 210 MM; BODY MATERIAL: SGI CAST;<br>TRIM: SGI CAST; OPERATED: HANDWHEEL;<br>SOFTGOODS: PU; STEM DESIGN: RISING OUTSIDE<br>SCREW; STYLE: THD BONNET; TEMPERATURE<br>RATING: 80 DEG C; DESIGN RATING: 20 BAR;<br>SLUICE WAY NOZZELS, TABLE 10, BS 4504, 8 HOLE,<br>ALSO CAN SUIT 4 HOLE DRILLING CM22, PCD180 | 25 | x |   |

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|--------|--------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 598293 | VALVE<br>MM; ISOLATING; FLANGE             | GATE: 250 | VALVE, GATE: VALVE SIZE: 250 MM; TYPE: ISOLATING; CONNECTION: FLANGE; FACE TO FACE LENGTH: 330 MM; BODY MATERIAL: CAST IRON; OPERATED: ACTUATOR ELECTRIC, GEARBOX; TEMPERATURE RATING: 0-50 DEG C; APPLICATION: WATER; DESIGN RATING: 16 BAR; FLANGE: SANS 1123-1600/3; VALVE IS OPERATED BY ASB-V2 4:1 RATIO GEARBOX; AWR BARGE PUMP DISCHARGE VALVE                                      | 7  |  | x |
| 584503 | BREATHING: AIR<br>VALVE; SS; 1/2 IN        | RELEASE   | BREATHING: TYPE: AIR RELEASE VALVE; MATERIAL: SS; DIMENSIONS: 1/2 IN; CONNECTION: FLANGE; MANUF P/N: 050RBX2501; APPLICATION: VENT-O-MAT; PIPE INLET WITH FLANGE CONNECTION; FLANGE HOLE: 4; MAXIMUM PRESSURE: 2500 KPA; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).                                        | 5  |  | x |
| 250484 | VALVE CHECK: COVER LID; 250 MM; 16 BAR; CS |           | VALVE, CHECK: TYPE: COVER LID; VALVE SIZE: 250 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: 5-30 DEG C; CONNECTION: FLANGE ID 355 X OD 405 MM, (12) DIA 22 MM, BS 4504; BODY MATERIAL: CS; FACE TO FACE LENGTH: 635 MM; OPERATED: STOP START PUMP; STYLE: SQ TOP COVER; TRIM: BUSHES BR; DISC CI; DISC RING BRZ/SS; PIN STL; SOFTGOODS: RING GASKET KLINGERSIL; APPLICATION: SLUICE PUMP | 20 |  | x |

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|--------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 603674 | VALVE CHECK:DOUBLE DOOR;350 MM;16 BAR   | VALVE, CHECK: TYPE: DOUBLE DOOR; VALVE SIZE: 350 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -25 TO 95 DEG C; CONNECTION: STUD; BODY MATERIAL: CI GR GG25; FACE TO FACE LENGTH: 127 MM; OPERATED: MANUAL; SOFTGOODS: DISC SS; GASKET EPDM RUBBER; SPRING SS; OD: 438 MM; WEIGHT: 55 KG; STEM: SS 13% CHROME; BODY: EPOXY POWDER COATED; SPRING: SS AWR BARGE PUMP FOOT VALVE | 25 |  | x |
| 250293 | VALVE BALL:1 IN;2500 LB;50 DEG C;SS     | VALVE, BALL: VALVE SIZE: 1 IN; DESIGN RATING: 2500 LB; TEMPERATURE RATING: 50 DEG C; CONNECTION: THD FEMALE; BODY MATERIAL: SS; FACE TO FACE LENGTH: 69 MM; OPERATED: LEVER; PORT TYPE: BALL; APPLICATION: JACKING OIL SYSTEM; GRADE: 316                                                                                                                                       | 10 |  | x |
| 72519  | VALVE:1 IN;BALL BRS                     | VALVE: VALVE SIZE: 1 IN; TRIM: BALL BRS; HP                                                                                                                                                                                                                                                                                                                                     | 35 |  | x |
| 246904 | VALVE GATE:1 IN;THD;66.6 MM;STL;CR PLTD | VALVE, GATE: VALVE SIZE: 1 IN; CONNECTION: THD; FACE TO FACE LENGTH: 66.6 MM; BODY MATERIAL: STL; TRIM: CR PLTD; OPERATED: HANDLE; STEM DESIGN: NON RISING INSIDE SCREW; TEMPERATURE RATING: 0-30 DEG C; APPLICATION: ASH PLANT WATER; DESIGN RATING: 10 BAR                                                                                                                    | 35 |  | x |

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|--------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|---|
| 612258 | VALVE BTRFLY:ISOLATING;14 IN;16 BAR;CI | VALVE,BUTTERFLY: TYPE: ISOLATING; VALVE SIZE: 14 IN; DESIGN RATING: 16 BAR; TEMPERATURE RATING: 5-27 DEG C; CONNECTION: WAFER; BODY MATERIAL: CI; FACE TO FACE LENGTH: 85 MM; OPERATED: GEARBOX; SOFTGOODS: LINER NBR                                                                                                                                                                                                     | 2   |   | x |
| 707204 | VALVE GATE:NB 400;WEDGE;16 BAR;FLANGE  | VALVE, GATE: VALVE SIZE: NB 400; TYPE: WEDGE; DESIGN PRESSURE: 16 BAR; DESIGN TEMPERATURE: 5-40 DEG C; CONNECTION: FLANGE; FACE TO FACE LENGTH: 470 MM; BODY MATERIAL: CAST IRON; TRIM: DISC SS; OPERATED: HANDWHEEL; STEM DESIGN: RISING SPINDLE; TEMPERATURE RATING: 5 TO 40 DEG C; APPLICATION: WATER; SPECIFICATION: CLASS 1600/3; DESIGN RATING: 16 BAR; FLANGE OD: 580 MM; NUMBER OF HOLE: 16; HOLE DIAMETER: 26 MM | 8   | x |   |
| 623469 | FRAME:STRAINER SCREEN;STL GALV         | FRAME: TYPE: STRAINER SCREEN; SIZE: WD 2.06 M X LG 3.5 M X THK 45 MM MM; MATERIAL: STL GALV; DRAWING NO: 36/ 21313 REV 0                                                                                                                                                                                                                                                                                                  | 50  |   | x |
| 600428 | SEAL:BLADE;WD 22 X LG 40 X THK 3 MM    | SEAL: TYPE: BLADE; DIMENSIONS: WD 22 X LG 40 X THK 3 MM; MATERIAL: RUBBER; RAW WATER APPLICATION                                                                                                                                                                                                                                                                                                                          | 120 |   | x |

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|--------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|---|
| 576278 | VALVE BTRFLY:WAFER/EXTENDED<br>NECK;450 MM | VALVE, BUTTERFLY: TYPE: WAFER/EXTENDED<br>NECK; VALVE SIZE: 450 MM; DESIGN RATING: 16<br>BAR; TEMPERATURE RATING: 5-40 DEG F;<br>CONNECTION: WAFER; BODY MATERIAL: CI; FACE<br>TO FACE LENGTH: 110 MM; OPERATED:<br>HANDWHEEL, GEARBOX; APPLICATION: COOLING<br>TOWER DRAIN                                                                                                                                                                                                    | 4   |  | x |
| 704765 | END:FLAP;WD 240 X LG 460 X THK 170<br>MM   | END: TYPE: FLAP; DIMENSIONS: WD 240 X LG 460 X<br>THK 170 MM; MATERIAL: SS304; TO OPEN MAXIMUM<br>15 DEGREES ; STAINLESS STEEL END FLAP TO BE<br>ATTACHED TO A CLASS D, PVC REDUCER WITH A<br>M10 SETSCREW; NUT AND WASHER; PVC PIPE<br>REDUCER ID 170MM TO 183MM, LENTH 240MM;<br>STAINLESS FLAP MUST HAVE A 3MM RUBBER<br>GASKET ; STAINLESS STEEL HANDEL 350MM X<br>12MM ROUND; FLAP OD 170MM X 3MM THICK ;<br>STAINLESS STEEL STRAP THAT ATTACHES TO PVC<br>PIPE 27MM WIDE | 500 |  | x |
| 599033 | VALVE GATE:300<br>KNIFE;FLANGE;117 MM      | VALVE, GATE: VALVE SIZE: 300 MM; TYPE: SQ<br>KNIFE; CONNECTION: FLANGE; FACE TO FACE<br>LENGTH: 117 MM; BODY MATERIAL: STEEL;<br>OPERATED: HANDWHEEL, MANUAL;<br>TEMPERATURE RATING: 20-150 DEG C;<br>APPLICATION: ASH HYDROVAC; DESIGN RATING:<br>10 BAR; REFERENCE NO: 45074 EAA 1139 EAEA;<br>MUST BE CERTIFIED TO CARRY WEIGHT OF ONE<br>TON; 16 HOLE RULA BULK MATERIALS                                                                                                  | 200 |  | x |

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|--------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|---|
| 599699 | DRIVER NUT:ID 24 X OD 30 MM;LG 70 MM   | DRIVER, NUT: SIZE: ID 24 X OD 30 MM; LENGTH: 70 MM; SHAFT: SOLID; HANDLE: STEEL; MANUF P/N: 45074EAA1352EAEA; SPINDLE NUT FOR FFP HYDROVAC SQUARE VALVE; WD 29 MM X HT 46 MM; THREADED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE). | 100 |  | x |
| 600427 | SPINDLE:HANDWHEEL;30 MM;LG 500 MM;STL  | SPINDLE: TYPE: HANDWHEEL; DIAMETER: 30 MM; LENGTH: 500 MM; MATERIAL: STL; MANUF P/N: 45074EAA 1351EA EA                                                                                                                                                                                                            | 100 |  | x |
| 600425 | BLADE:VALVE;WD 290 X LG 450 X THK 6 MM | BLADE: TYPE: VALVE; DIMENSIONS: WD 290 X LG 450 X THK 6 MM; MATERIAL: SS; MANUF P/N: 45074EAA 1350EA EA; FFP SLIDE GATE VALVE BLADE                                                                                                                                                                                | 10  |  | x |
| 600426 | HANDWHEEL:VALVE SQ;268 MM;STL          | HANDWHEEL: TYPE: VALVE SQ; DIAMETER: 268 MM; MATERIAL: STL; MANUF P/N: 45074 EAA 1346 EA EA; THREE SPOKE HANDWHEEL; FFP HOPPER SLIDE GATE; ASH PLANTVENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).                                     | 20  |  | x |
| 647333 | BRG THRST:BALL;ID 26 MM;OD 67 MM       | BEARING, THRUST: ROLLING ELEMENT: BALL; INSIDE DIAMETER: 26 MM; OUTSIDE DIAMETER: 67 MM; WIDTH: 26 MM; MANUF P/N: 45074 EAA 1345EAEA; NUMBER OF HOLES: 2; 970 MM APART                                                                                                                                             | 60  |  | x |

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|--------|-----------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|---|
| 246904 | VALVE GATE:1<br>MM;STL;CR PLTD          | IN;THD;66.6 | VALVE, GATE: VALVE SIZE: 1 IN; CONNECTION:<br>THD; FACE TO FACE LENGTH: 66.6 MM; BODY<br>MATERIAL: STL; TRIM: CR PLTD; OPERATED:<br>HANDLE; STEM DESIGN: NON RISING INSIDE<br>SCREW; TEMPERATURE RATING: 0-30 DEG C;<br>APPLICATION: ASH PLANT WATER; DESIGN<br>RATING: 10 BAR                                                                                                                                            | 40  |  | x |
| 63805  | VALVE GATE:20 MM;WEDGE;THD;52<br>MM;BRS |             | VALVE, GATE: VALVE SIZE: 20 MM; TYPE: WEDGE;<br>CONNECTION: THD; FACE TO FACE LENGTH: 52<br>MM; BODY MATERIAL: BRS; TRIM: DISC/STEM BRS;<br>OPERATED: HANDWHEEL; STEM DESIGN: NON<br>RISING SPINDLE; STYLE: THD BONNET;<br>TEMPERATURE RATING: 175 DEG C; DESIGN<br>RATING: 1600 KPA; REFERENCE NO: 1001-125, UNK;<br>SUPPLIER NOTE: TO BE SUPPLIED ACCORDING TO<br>S.A.B.S. SPECIFICATION WITH A PRESSURE<br>CERTIFICATE | 30  |  | x |
| 251829 | VALVE:1/2 IN;SS;316                     |             | VALVE: CONNECTION: 1/2 IN; BODY MATERIAL: SS;<br>GRADE: 316; SUPPL P/N: SS-266FT-050                                                                                                                                                                                                                                                                                                                                      | 400 |  | x |
| 613996 | VALVE BTRFLY:ISOLATING;6 IN;16<br>BAR   |             | VALVE, BUTTERFLY: TYPE: ISOLATING; VALVE SIZE:<br>6 IN; DESIGN RATING: 16 BAR; TEMPERATURE<br>RATING: -25 TO 135 DEG C; CONNECTION: WAFER<br>PATTERN; BODY MATERIAL: SS GR 316; FACE TO<br>FACE LENGTH: 55.8 MM; OPERATED: GEARBOX;<br>SUPPLY VALVE WITH A BEVEL GEARBOX; WAFER<br>TYPE                                                                                                                                   | 300 |  | x |

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|--------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 618453 | VALVE PINCH:STRAIGHT THROUGH;4<br>IN;16 BAR | VALVE, PINCH: TYPE: STRAIGHT THROUGH; VALVE<br>SIZE: 4 IN; WORKING PRESSURE: 16 BAR;<br>TEMPERATURE RANGE: 10-30 DEG C; BODY<br>MATERIAL: AL CAST; SLEEVE MATERIAL: EPDM;<br>CONNECTION TYPE: FLANGE; FACE TO FACE<br>LENGTH: 305 MM; OPERATED: HANDWHEEL;<br>SPECIFICATION: BS 4504 TABLE 16; RISING<br>SPINDLE VALVE; MATERIAL SPECIFICATION:<br>NEOPRENE; VITON AND HYPALON; SLEEVE<br>MATERIAL | 20 |  | x |
| 623513 | VALVE GATE:4 IN;WEDGE;400 KPA;60<br>DEG C   | VALVE, GATE: VALVE SIZE: 4 IN; TYPE: WEDGE;<br>DESIGN PRESSURE: 400 KPA; DESIGN<br>TEMPERATURE: 60 DEG C; CONNECTION: FLANGE;<br>FACE TO FACE LENGTH: 250 MM; BODY MATERIAL:<br>CAST IRON; TRIM: BRS; OPERATED: HANDWHEEL;<br>DESIGN RATING: CL125; PCD: 180 MM; NUMBER OF<br>HOLES: 8                                                                                                             | 40 |  | x |
| 246098 | VALVE CHECK:FLAP;100 MM;1000<br>KPA;STL     | VALVE, CHECK: TYPE: FLAP; VALVE SIZE: 100 MM;<br>DESIGN RATING: 1000 KPA; TEMPERATURE<br>RATING: 0-50 DEG C; CONNECTION: FLANGE PCD<br>180 MM, BS 4504 TABLE 10; BODY MATERIAL: STL;<br>FACE TO FACE LENGTH: 295 MM; TRIM: DISC SS;<br>SOFTGOODS: GASKET KLINGERITE; APPLICATION:<br>HOPPER SPRAY NRV; OPERATED WATER FLOW,<br>CLASS 16                                                            | 15 |  | x |

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|--------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 618455 | VALVE:PRESSURE REDUCING;4 IN;16 BAR    | VALVE: TYPE: PRESSURE REDUCING; VALVE SIZE: 4 IN; DESIGN RATING: 16 BAR; TEMPERATURE RATING: 5-35 DEG C; FACE TO FACE LENGTH: 250 MM; CONNECTION: FLANGE; OPERATED: PRESSURE; BODY MATERIAL: CI; MODEL NO: BFR-100; BAKER ELITE CONTROL VALVE; OPERATING PRESSURE: 150 KPA - 1600 KPA; NUMBER OF FLANGE HOLES: 4                                                                             | 20 |  | x |
| 618454 | VALVE CHECK:DOUBLE DOOR;4 IN;16 BAR;CI | VALVE, CHECK: TYPE: DOUBLE DOOR; VALVE SIZE: 4 IN; DESIGN RATING: 16 BAR; TEMPERATURE RATING: 10-30 DEG C; CONNECTION: WAFER; BODY MATERIAL: CI; FACE TO FACE LENGTH: 64 MM; OPERATED: SPRING LOADED; TRIM MATERIAL: DOOR SS; STEM: SS; SEAT: NRB RUBBER/EPDM; SPRING: SS; COATING: EPOXY POWDER COATED; OD: 162 MM; ID: 91 MM                                                               | 20 |  | x |
| 230536 | VALVE GATE:250 MM;WEDGE DISC;FLANGE FF | VALVE, GATE: VALVE SIZE: 250 MM; TYPE: WEDGE DISC; CONNECTION: FLANGE FF; FACE TO FACE LENGTH: 330 MM; BODY MATERIAL: CI ASTM A126B; TRIM: BRZ; DISC CI BRZ FACING; OPERATED: HANDWHEEL; STEM DESIGN: THD; STYLE: BOLTED BONNET; TEMPERATURE RATING: 48.2 DEG C; DESIGN RATING: CL150; FLANGE THICKNESS IS 30MM; NUMBER OF HOLES IS 12; POD IS 356 TO TABLE E; ID IS 255MM; FLANGE DIA 406MM | 8  |  | x |

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|--------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|---|
| 612044 | VALVE:WEDGE;3 IN;150 LB;-29 TO 425 DEG C | VALVE: TYPE: WEDGE; VALVE SIZE: 3 IN; DESIGN RATING: 150 LB; TEMPERATURE RATING: -29 TO 425 DEG C; FACE TO FACE LENGTH: 203 MM; CONNECTION: FLANGE TABLE D; OPERATED: HANDWHEEL; BODY MATERIAL: A216; STYLE: 2 WAY BOLTED BONNET; TRIM: ASTM A105; GRADE: ASTM A216 GR WCB; SPECIFICATION: API 600; SOFTGOODS: PACKING FLEXIBLE GRAPHITE; SPECIAL FEATURES: FLANGE DRILLED; SUPPLY VALVE WITH TWO MACHINING: 150 LB TABLE D FLANGES | 8 |  | x |
| 612048 | VALVE:WEDGE;3 IN;300 LB;-29 TO 425 DEG C | VALVE: TYPE: WEDGE; VALVE SIZE: 3 IN; DESIGN RATING: 300 LB; TEMPERATURE RATING: -29 TO 425 DEG C; FACE TO FACE LENGTH: 282 MM; CONNECTION: FLANGE TABLE D; OPERATED: HANDWHEEL; BODY MATERIAL: WCB ASTM A216; STYLE: 2 WAY BOLTED BONNET; TRIM: ASTM A105; SPECIFICATION: API 600; SOFTGOODS: PACKING FLEXIBLE GRAPHITE; SPECIAL FEATURES: FLANGE DRILLED; SUPPLY VALVE WITH TWO MACHINED 300 LB TABLE D FLANGES                   | 8 |  | x |
| 621093 | VALVE CHECK:SWING;3 IN;300 LB;0-40 DEG C | VALVE, CHECK: TYPE: SWING; VALVE SIZE: 3 IN; DESIGN RATING: 300 LB; TEMPERATURE RATING: 0-40 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CS; FACE TO FACE LENGTH: 315 MM; OPERATED: MANUAL; APPLICATION: SEAL WATER; NRV FLANGES MUST BE DRILLED ACCORDING TO TABLE D FLANGE DRILLING                                                                                                                                                 | 8 |  | x |

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|--------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|
| 250484 | VALVE CHECK:COVER LID;250 MM;16 BAR;CS | VALVE, CHECK: TYPE: COVER LID; VALVE SIZE: 250 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: 5-30 DEG C; CONNECTION: FLANGE ID 355 X OD 405 MM, (12) DIA 22 MM, BS 4504; BODY MATERIAL: CS; FACE TO FACE LENGTH: 635 MM; OPERATED: STOP START PUMP; STYLE: SQ TOP COVER; TRIM: BUSHES BR5; DISC CI; DISC RING BRZ/SS; PIN STL; SOFTGOODS: RING GASKET KLINGERSIL; APPLICATION: SLUICE PUMP | 12 |   | x |
| 242465 | VALVE GATE:250 MM;DISC;280 MM;MS       | VALVE, GATE: VALVE SIZE: 250 MM; TYPE: DISC; CONNECTION: FLANGE (12) HOLES, TABLE D; FACE TO FACE LENGTH: 280 MM; BODY MATERIAL: MS; OPERATED: ACTUATOR; DESIGN RATING: 15 BAR; SUPPL P/N: 0912399                                                                                                                                                                                          | 12 | x |   |

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|        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |  |   |
|--------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 576281 | VALVE GATE:250 MM;WEDGE;16<br>BAR;FLANGE | VALVE, GATE: VALVE SIZE: 250 MM; TYPE: WEDGE;<br>DESIGN PRESSURE: 16 BAR; DESIGN<br>TEMPERATURE: 5-40 DEG C; CONNECTION:<br>FLANGE; FACE TO FACE LENGTH: 330 MM; BODY<br>MATERIAL: CI; TRIM: STL; OPERATED: ACTUATOR;<br>STEM DESIGN: RISING SPINDLE; STYLE:<br>RESILIENT; TEMPERATURE RATING: 5-40 DEG C;<br>APPLICATION: SLUICE PUMP DISCHARGE; DESIGN<br>RATING: 16 BAR; NUMBER OF HOLES: 12 ; HOLE<br>DIA: 23MM; PCD: 350MM; HAND WHEEL MUST BE<br>REPLACED WITH A BASE PLATE TO ACCOMMODATE<br>A SAMBO SB-V2 GEARBOX; BASE PLATE<br>DIMENSIONS: OD 220 X THK 25MM ; NUMBER OF<br>HOLES: 4; PCD:165MM ; HOLE DIAMETER TO<br>ACCOMMODATE M20 BOLT | 20 |  | x |
| 527529 | VALVE GATE:250<br>MM;WEDGE;FLANGE;330 MM | VALVE, GATE: VALVE SIZE: 250 MM; TYPE: WEDGE;<br>CONNECTION: FLANGE; FACE TO FACE LENGTH:<br>330 MM; BODY MATERIAL: CAST IRON; OPERATED:<br>HAND; STEM DESIGN: RISING SPINDLE;<br>TEMPERATURE RATING: 30 DEG C; APPLICATION:<br>ASH WATER; SPECIFICATION: BS5163 A; GRADE:<br>SG42; DESIGN RATING: PN16; PRESSURE TEST<br>CERTIFICATE MUST BE ON THE MATERIAL WHEN<br>DELIVERED                                                                                                                                                                                                                                                                      | 20 |  | x |

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|--------|----------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|
| 234225 | VALVE GATE:200<br>DISC;FLANGE    | MM;ROTARY      | VALVE, GATE: VALVE SIZE: 200 MM; TYPE: ROTARY<br>DISC; CONNECTION: FLANGE; FACE TO FACE<br>LENGTH: 318 MM; BODY MATERIAL: SGI CAST;<br>TRIM: SGI CAST; OPERATED: HANDWHEEL;<br>SOFTGOODS: PU; STEM DESIGN: RISING OUTSIDE<br>SCREW; STYLE: THD BONNET; TEMPERATURE<br>RATING: 80 DEG C; DESIGN RATING: 20 BAR; FOR<br>SECTIONALISING ON THE ASH HOPPER SLUIDE<br>WAYS, BS 4504 TABEL 10, 8 HOLES                            | 8  | x |   |
| 230535 | VALVE GATE:200<br>DISC;FLANGE FF | MM;WEDGE       | VALVE, GATE: VALVE SIZE: 200 MM; TYPE: WEDGE<br>DISC; CONNECTION: FLANGE FF; FACE TO FACE<br>LENGTH: 290 MM; BODY MATERIAL: CI ASTM A126B;<br>TRIM: BRZ; DISC CI BRZ FACING; STEM BRZ ASTM<br>B16; OPERATED: HANDWHEEL; STEM DESIGN: THD;<br>STYLE: BOLTED BONNET; TEMPERATURE RATING:<br>48.2 DEG C; DESIGN RATING: CL125; FLANGE<br>THICKNESS 29MM; NUMBER OF HOLES ISEIGHT;<br>PCD IS 292MM TO TABLE D; FLANGE DIA 337MM | 35 |   | x |
| 233579 | VALVE:ROTARY<br>BAR;80 DEG C     | DISC;250 MM;25 | VALVE: TYPE: ROTARY DISC; VALVE SIZE: 250 MM;<br>DESIGN RATING: 25 BAR; TEMPERATURE RATING:<br>80 DEG C; CONNECTION: FLANGE; OPERATED:<br>HANDWHEEL; BODY MATERIAL: SGI CAST; SHOULD<br>BE ABLE TO ACCEPT; RISING SPINDLE; STAINLESS<br>STEEL 304; TO BE DRILL TO TABLE 10; NUMBER OF<br>HOLES 12; FOR USE WITH SLUICE PUMP,<br>PREVIOUS VALUE - VALVE SIZE 280 MM                                                          | 14 | x |   |

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|--------|-----------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 230536 | VALVE GATE:250<br>DISC;FLANGE FF        | MM;WEDGE | VALVE, GATE: VALVE SIZE: 250 MM; TYPE: WEDGE<br>DISC; CONNECTION: FLANGE FF; FACE TO FACE<br>LENGTH: 330 MM; BODY MATERIAL: CI ASTM A126B;<br>TRIM: BRZ; DISC CI BRZ FACING; OPERATED:<br>HANDWHEEL; STEM DESIGN: THD; STYLE: BOLTED<br>BONNET; TEMPERATURE RATING: 48.2 DEG C;<br>DESIGN RATING: CL150; FLANGE THICKNESS IS<br>30MM; NUMBER OF HOLES IS 12; POD IS 356 TO<br>TABLE E; ID IS 255MM; FLANGE DIA 406MM | 8  |  | x |
| 647398 | VALVE GATE:10 IN;ISOLATING;16<br>BAR;DI |          | VALVE, GATE: VALVE SIZE: 10 IN; TYPE: ISOLATING;<br>DESIGN PRESSURE: 16 BAR; DESIGN<br>TEMPERATURE: 150 DEG C; CONNECTION:<br>FLANGE; FACE TO FACE LENGTH: 356 MM; BODY<br>MATERIAL: DI; TRIM: DI; OPERATED: HANDWHEEL;<br>STEM DESIGN: RISING SPINDLE; FLANGE<br>DIAMETER: 406 MM; NUMBER OF HOLES: 22 MM;<br>HOLE DIAMETER: 12; MATERIAL CERTIFICATE TO<br>BE SUPPLIED WITH EVERY DELIVERY                         | 20 |  | x |
| 241897 | VALVE GATE:10 IN;SLIDE;FLANGE;457<br>MM |          | VALVE, GATE: VALVE SIZE: 10 IN; TYPE: SLIDE;<br>CONNECTION: FLANGE; FACE TO FACE LENGTH:<br>457 MM; BODY MATERIAL: CS ASTM A216;<br>OPERATED: ACTUATOR; SOFTGOODS: PACKING<br>GRAPHITE; TEMPERATURE RATING: 263.9 DEG C;<br>GRADE: WCB; DESIGN RATING: 1251 KPA                                                                                                                                                      | 4  |  | x |

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|--------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 230536 | VALVE GATE:250<br>DISC;FLANGE FF MM;WEDGE | VALVE, GATE: VALVE SIZE: 250 MM; TYPE: WEDGE<br>DISC; CONNECTION: FLANGE FF; FACE TO FACE<br>LENGTH: 330 MM; BODY MATERIAL: CI ASTM A126B;<br>TRIM: BRZ; DISC CI BRZ FACING; OPERATED:<br>HANDWHEEL; STEM DESIGN: THD; STYLE: BOLTED<br>BONNET; TEMPERATURE RATING: 48.2 DEG C;<br>DESIGN RATING: CL150; FLANGE THICKNESS IS<br>30MM; NUMBER OF HOLES IS 12; POD IS 356 TO<br>TABLE E; ID IS 255MM; FLANGE DIA 406MM | 10 |  | x |
|--------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|

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**Water Treatment Plant Valve List**

| Material no | Short description              | Description                                                                                                                                                                                                                                                                                                          | Quantity | RF | Non RF |
|-------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|--------|
| 527528      | Cation butterfly valves ND 50  | VALVE, BUTTERFLY; TYPE: WAFER; VALVE SIZE: 50 MM; DESIGN RATING: 1 MPA; TEMPERATURE RATING: 20-120 DEG C; CONNECTION: COMPRESSION; BODY MATERIAL: NI ALLOY/SS; OPERATED: HAND; SOFTGOODS: RUBBER; APPLICATION: DEGAS WATER                                                                                           | 10       |    | X      |
| 213728      | Cation butterfly valves ND 125 | VALVE, BUTTERFLY; TYPE: WAFER; VALVE SIZE: 125 MM; DESIGN RATING: 1 MPA; TEMPERATURE RATING: 85 DEG C; CONNECTION: COMPRESSION; BODY MATERIAL: NI ALLOY/SS; OPERATED: HANDWHEEL; TRIM: STL; SOFTGOODS: RUBBER; DRAWING NO: OEM BESTOBEL W/05/C/05/G/K/A/S/0003; DRAWING NO: W/05/C/05/G/K/A/S/0003; SERIAL NO: 43376 | 15       |    | X      |
| 527532      | Cation butterfly valves ND 80  | VALVE, BUTTERFLY; TYPE: WAFER; VALVE SIZE: 80 MM; DESIGN RATING: 1 MPA; TEMPERATURE RATING: 20-120 DEG C; CONNECTION: COMPRESSION; BODY MATERIAL: NI ALLOY/SS; OPERATED: HANDLEVER; SOFTGOODS: RUBBER; APPLICATION: DEGAS WATER                                                                                      | 15       |    | X      |

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|--------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 609413 | Butterfly, Float, Constant head tower,<br>6"  | VALVE, BUTTERFLY: TYPE: SHUT OFF; VALVE<br>SIZE: 6 IN; DESIGN RATING: 500 KPA;<br>TEMPERATURE RATING: -10 TO 40 DEG C;<br>CONNECTION: FLANGE; BODY MATERIAL: CI;<br>FACE TO FACE LENGTH: 56 MM; OPERATED:<br>FLOAT; APPLICATION: RAW WATER; FLANGE<br>PCD: 230 MM       | 6  |  | X |
| 609412 | Butterfly, Float, Constant head tower,<br>10" | VALVE, BUTTERFLY: TYPE: SHUT OFF; VALVE<br>SIZE: 10 IN; DESIGN RATING: 500 KPA;<br>TEMPERATURE RATING: -10 TO 40 DEG C;<br>CONNECTION: FLANGE; BODY MATERIAL: CI;<br>FACE TO FACE LENGTH: 80 MM; OPERATED:<br>FLOAT; APPLICATION: RAW WATER; FLANGE<br>PCD: 400 MM      | 5  |  | X |
| 243233 | 1/2" stainless steel ball valves              | BALL, VALVE: VALVE SIZE: 1/2 IN; DIAMETER: 1/2<br>IN; MATERIAL: SS; FULL PORT OPENING MALE<br>AND FEMALE THREADED CONNECTION                                                                                                                                            | 20 |  | X |
| 605775 | Valve, ball, 2" , SS                          | VALVE, BALL: VALVE SIZE: 2 IN; DESIGN RATING:<br>500 KPA; TEMPERATURE RATING: -10 TO 40 DEG<br>C; CONNECTION: FLANGE; BODY MATERIAL: SS<br>GR 316; FACE TO FACE LENGTH: 65 MM;<br>OPERATED: HAND; STYLE: 2 WAY; APPLICATION:<br>SULPHURIC ACID TANK; NUMBER OF HOLES: 4 | 30 |  | X |

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|--------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 608636 | Valve, ball, 1-1/2", SS               | VALVE, BALL: VALVE SIZE: 1-1/2 IN; DESIGN RATING: 500 KPA; TEMPERATURE RATING: -10 TO 35 DEG C; CONNECTION: FLANGE; BODY MATERIAL: SS GR 316; FACE TO FACE LENGTH: 55 MM; OPERATED: MANUAL; APPLICATION: SULPHURIC ACID TANK                                                                            | 10 |  | X |
| 661365 | Valve, ball, 2", SS, flanged, 2 piece | VALVE, BALL: VALVE SIZE: 50 MM; DESIGN RATING: 100 KPA; TEMPERATURE RATING: -10 TO 40 DEG C; CONNECTION: FLANGED; BODY MATERIAL: SS 316; FACE TO FACE LENGTH: 178 MM; OPERATED: MANUAL; APPLICATION: SULPHURIC ACID; TYPE: 3 PIECE CLASS 150; FLANGE ENDS: BS4504 PN16                                  | 15 |  | X |
| 569611 | Degas NRV new spec                    | VALVE, CHECK: TYPE: SWING; VALVE SIZE: 6 IN; DESIGN RATING: 3 BAR; TEMPERATURE RATING: 18 DEG C; CONNECTION: FLANGE; BODY MATERIAL: SS; FACE TO FACE LENGTH: 240 MM; OPERATED: MANUAL; TRIM: SS; APPLICATION: DEGAS WATER; SPECIFICATION: UNI-FLO; PCD: 160MM; HOLE: 8; HOLE DIA: M16; FLANGE OD: 200MM | 15 |  | X |

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|--------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|
| 579103 | Demin pumps NRV's   | VALVE, CHECK: TYPE: WATER FLOW; VALVE SIZE: 150 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: 23 DEG C; CONNECTION: FLANGE; BODY MATERIAL: SS GR 316; FACE TO FACE LENGTH: 356 MM; OPERATED: MANUAL; TRIM: 316 SS; DISC SS; APPLICATION: DEMIN PUMPS; FLANGE DIAMETER: 285MM; FLANGE HOLE: 8; BOLT SIZE TO BE FITTED: M16; PCD: 235MM; DISTANCE BETWEEN CENTRES: 90MM | 9 | x |   |
| 528991 | Service pumps NRV's | VALVE, CHECK: TYPE: NON RETURN; VALVE SIZE: 8 IN; DESIGN RATING: 4 TO 5 BAR; TEMPERATURE RATING: 16 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CAST IRON; FACE TO FACE LENGTH: 490 MM; OPERATED: MANUAL; APPLICATION: SERVICE WATER; PCD: 290MM; HOLE: 12; HOLE DIA: M25X80; CENTRE BETWEEN TWO HOLES: 76MM                                                             | 8 |   | X |

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|--------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 250873 | Service water elec 9"   | VALVE, GATE: VALVE SIZE: 9 IN; TYPE: WEDGE;<br>CONNECTION: FLANGE (8) HOLES DIA 18, PCD<br>320 MM; FACE TO FACE LENGTH: 332 MM; BODY<br>MATERIAL: CI; OPERATED: HANDWHEEL;<br>SOFTGOODS: LINING RUBBER; STEM DESIGN:<br>RISING SPINDLE; TEMPERATURE RATING: -10 TO<br>40 DEG C; DESIGN RATING: 4 BAR; DISTANCE<br>BETWEEN CENTRES 124 MM, PIPE SIZE OD 240<br>NB X ID 2 00 NB, BOLT SIZE M16, HOLES<br>EQUALLY SPACED, NB: VALVE MUST BE<br>SUPPLIED WITH THE MATERIAL CERTIFICATE | 6  |  | X |
| 250876 | Service water diesel 9" | VALVE, GATE: VALVE SIZE: 9 IN; TYPE: WEDGE;<br>CONNECTION: FLANGE (8) HOLES DIA 18, PCD<br>320 MM; FACE TO FACE LENGTH: 256 MM; BODY<br>MATERIAL: CI; OPERATED: HANDWHEEL,<br>MANUAL; SOFTGOODS: LINING RUBBER; STEM<br>DESIGN: RISING SPINDLE; DESIGN RATING: 4<br>BAR; DISTANCE BETWEEN CENTRES 124 MM,<br>PIPE SIZE OD 240 NB X ID 200 NB, HOLES<br>EQUALLY SPACED, BOLT SIZE M16, NB: VALVE<br>MUST BE SUPPLIED WITH THE MATERIAL<br>CERTIFI                                   | 15 |  | X |

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| 249768 | Degas isolating valves 6"           | VALVE, GATE: VALVE SIZE: 6 IN; TYPE: WEDGE;<br>CONNECTION: FLANGE (8) HOLES, PCD 233 MM,<br>STL; FACE TO FACE LENGTH: 212 MM; BODY<br>MATERIAL: CI; OPERATED: HANDWHEEL;<br>SOFTGOODS: LINING RUBBER; STEM DESIGN:<br>RISING SPINDLE; TEMPERATURE RATING: -10 TO<br>40 DEG C; DESIGN RATING: 4 BAR; RESIST ACID<br>AND CORROSION, BOLT SIZE M16                                                                | 20 |   | X |
| 249769 | Demin producing isolating valves 6" | VALVE, GATE: VALVE SIZE: 6 IN; TYPE: WEDGE;<br>CONNECTION: FLANGE (8) HOLES, PCD 233 MM,<br>STL; FACE TO FACE LENGTH: 280 MM; BODY<br>MATERIAL: CI; OPERATED: HANDWHEEL;<br>SOFTGOODS: LINING RUBBER; DESIGN RATING:<br>3-4.5 BAR; RESIST ACID AND CORROSION, MUST<br>BE ROISE UP SPINDLE, BOLT SIZE M16,<br>DEMINERALISED                                                                                     | 12 |   | X |
| 250875 | Portable isolating valve 8"         | VALVE, GATE: VALVE SIZE: 8 IN; TYPE: WEDGE;<br>CONNECTION: FLANGE (8) HOLES DIA M16, PCD<br>293 MM; FACE TO FACE LENGTH: 318 MM; BODY<br>MATERIAL: CI; OPERATED: HANDWHEEL,<br>MANUAL; SOFTGOODS: LINING RUBBER; STEM<br>DESIGN: RISING SPINDLE; DESIGN RATING: 4<br>BAR; DISTANCE BETWEEN CENTRES 112 MM,<br>PIPE SIZE 200 NB, EQUALLY SPACED, NB: VALVE<br>MUST BE SUPPLIED WITH THE MATERIAL<br>CERTIFICATE | 10 | x |   |

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| 250876 | Portable isolating valve 8" | VALVE, GATE: VALVE SIZE: 9 IN; TYPE: WEDGE;<br>CONNECTION: FLANGE (8) HOLES DIA 18, PCD<br>320 MM; FACE TO FACE LENGTH: 256 MM; BODY<br>MATERIAL: CI; OPERATED: HANDWHEEL,<br>MANUAL; SOFTGOODS: LINING RUBBER; STEM<br>DESIGN: RISING SPINDLE; DESIGN RATING: 4<br>BAR; DISTANCE BETWEEN CENTRES 124 MM,<br>PIPE SIZE OD 240 NB X ID 200 NB, HOLES<br>EQUALLY SPACED, BOLT SIZE M16, NB: VALVE<br>MUST BE SUPPLIED WITH THE MATERIAL<br>CERTIFICATE | 11 | x |  |
|--------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|--|

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| 250877 | Portable isolating valve 10" | VALVE, GATE: VALVE SIZE: 10 IN; TYPE: WEDGE;<br>CONNECTION: FLANGE (8) HOLES, PCD 353;<br>FACE TO FACE LENGTH: 357 MM; BODY<br>MATERIAL: CI; OPERATED: HANDWHEEL,<br>MANUAL; SOFTGOODS: LINING RUBBER; STEM<br>DESIGN: RISING SPINDLE; TEMPERATURE<br>RATING: -10 TO 40 DEG C; DESIGN RATING: 4<br>BAR; DISTANCE BETWEEN CENTRES 137 MM,<br>PIPE SIZE 250 NB, BOLT SIZE M20, HOLES<br>EQUALLY SPACED, NB: VALVE MUST BE<br>SUPPLIED WITH THE MATERIAL CERTIFICATE | 20 |  | X |
| 248400 | Producing valves             | VALVE, GATE: VALVE SIZE: 6 IN; TYPE: SLIDE;<br>CONNECTION: FLANGE (8) HOLES, PCD 235 MM;<br>FACE TO FACE LENGTH: 280 MM; BODY<br>MATERIAL: CS; OPERATED: MANUAL;<br>SOFTGOODS: LINING RUBBER; STEM DESIGN:<br>RISING SPINDLE; DESIGN RATING: 1000 KPA;<br>EQUAL SPACED HOLES                                                                                                                                                                                      | 9  |  | X |

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|        |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |  |   |
|--------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 245963 | Demin tanks isolating valves 8" | <p>VALVE, GATE: VALVE SIZE: 8 IN; TYPE: WEDGE;<br/>CONNECTION: FLANGE (8) HOLES DIA 22, PCD<br/>295 MM; FACE TO FACE LENGTH: 295 MM; BODY<br/>MATERIAL: CS; SOFTGOODS: LINED RUBBER;<br/>STEM DESIGN: RISING SPINDLE; DESIGN<br/>RATING: 5 BAR; OPERATED MANUAL, SIZE OF A<br/>PIPE: 220 MM, BOLTS DIAMETER: M20; SUPPLIER<br/>NOTE: BEFORE COMMENCEMENT OF ANY<br/>WORK THE APPLICATOR AND COATING<br/>MANUFACTURER SHALL COMPILE A DETAILED<br/>APPLICATION FOR THE WORKS; AND SUBMIT A<br/>DETAILED PROGRAMME SHOWING QUALITY<br/>CONTROL PLAN; DETAILED PROGRAM FOR THE<br/>COMPLETE PROJECT (BAR CHART); CLEAR ALL<br/>DIRT BEFORE COATING; ALL PITS IN EXCESS OF<br/>2 &amp; 5MM IN DEPTH SHALL BE FILLED USING 2<br/>COMPONENT SOLVENT FREE EPOXY FILLER;<br/>ABOVE 5MM FILLED BY WELDING; ALL EDGES;<br/>WELD SEAMS; NUTS &amp; BOLTS AND PITS LESS<br/>THAN 2MM IN DEPTH SHALL BE STRIPE COATED;<br/>SURROUNDINGS TO BE PROTECTED FROM<br/>OVERSPRAY&amp; COATING CONTAMINATION;<br/>COATED AREAS SHALL BE TESTED; COATING<br/>SYSTEM GUARANTEE MUST BE SUBMITTED AT<br/>THE TIME OF TENDER MUST BE IN LINE WITH<br/>ISO4628-3 CLAUSE 4.18; LATEST VERSION OF<br/>MATERIAL PRODUCT SHEET AND MATERIAL<br/>SAFETY DATA SHEET</p> | 10 |  | X |
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|--------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|---|
| 245964 | Demin tanks isolating valves 16" | <p>VALVE, GATE: VALVE SIZE: 16 IN; TYPE: WEDGE;<br/>DESIGN PRESSURE: 10 BAR; DESIGN<br/>TEMPERATURE: -10 TO 40 DEG C; CONNECTION:<br/>FLANGE (16) HOLES DIA 26, PCD 515 MM; FACE<br/>TO FACE LENGTH: 480 MM; BODY MATERIAL: CS;<br/>TRIM: CI; OPERATED: MANUAL; SOFTGOODS:<br/>LINING RUBBER; STEM DESIGN: RISING<br/>SPINDLE; APPLICATION: DEMINERALISED<br/>WATER; DESIGN RATING: 5 BAR;<br/>DEMINERALISED WATER PH: 5 - 6;<br/>DEMINERALISED WATER CONDUCTIVITY: 0.060 –<br/>0.100 US/CM; PIPE SIZE: 410MM; BOLT<br/>DIAMETER: M24; SUPPLIER NOTE:<br/>SPECIFICATION OF RUBBER TO BE USED;<br/>PROOF THAT THE VALVE HAS BEEN SOURCED<br/>FROM AN ISO 9001 ACCREDITED OEM; A COPY<br/>OF ISO 9001 CERTIFICATE MUST BE SUBMITTED;<br/>A QC CERTIFICATE THAT INCLUDES BOTH THE<br/>VALVE MANUFACTURING AND RUBBER LINING</p> | 4 |  | X |
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|--------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|---|
| 245965 | Demin tanks isolating valves 12" | <p>VALVE, GATE: VALVE SIZE: 12 IN; TYPE: WEDGE;<br/>CONNECTION: FLANGE DIA 22, PCD 400 MM;<br/>FACE TO FACE LENGTH: 365 MM; BODY<br/>MATERIAL: CS; OPERATED: MANUAL;<br/>SOFTGOODS: LINING RUBBER; STEM DESIGN:<br/>RISING SPINDLE; DESIGN RATING: 5 BAR; BOLT<br/>DIAMETER: M20; BOLTS DIAMETER: M20;<br/>SUPPLIER NOTE: BEFORE COMMENCEMENT OF<br/>ANY WORK THE APPLICATOR AND COATING<br/>MANUFACTURER SHALL COMPILE A DETAILED<br/>APPLICATION FOR THE WORKS; AND SUBMIT A<br/>DETAILED PROGRAMME SHOWING QUALITY<br/>CONTROL PLAN; DETAILED PROGRAM FOR THE<br/>COMPLETE PROJECT (BAR CHART); CLEAR ALL<br/>DIRT BEFORE COATING; ALL PITS IN EXCESS OF<br/>2 &amp; 5MM IN DEPTH SHALL BE FILLED USING 2<br/>COMPONENT SOLVENT FREE EPOXY FILLER;<br/>ABOVE 5MM FILLED BY WELDING; ALL EDGES;<br/>WELD SEAMS; NUTS &amp; BOLTS AND PITS LESS<br/>THAN 2MM IN DEPTH SHALL BE STRIPE COATED;<br/>SURROUNDINGS TO BE PROTECTED FROM<br/>OVERSPRAY&amp; COATING CONTAMINATION;<br/>COATED AREAS SHALL BE TESTED; COATING<br/>SYSTEM GUARANTEE MUST BE SUBMITTED AT<br/>THE TIME OF TENDER MUST BE IN LINE WITH<br/>ISO4628-3 CLAUSE 4.18; LATEST VERSION OF<br/>MATERIAL PRODUCT SHEET AND MATERIAL<br/>SAFETY DATA SHEET; VENDORS ARE<br/>RESPONSIBLE FOR ENSURING THAT THEY ARE</p> | 8 |  | X |
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| 245966 | Demin tanks isolating valves 6" | <p>VALVE, GATE: VALVE SIZE: 6 IN; TYPE: WEDGE;<br/>CONNECTION: FLANGE (8) HOLES DIA 22, PCD<br/>235 MM; FACE TO FACE LENGTH: 290; BODY<br/>MATERIAL: CS; OPERATED: MANUAL;<br/>SOFTGOODS: LINING RUBBER; STEM DESIGN:<br/>RISING SPINDLE; TEMPERATURE RATING: 175<br/>DEG C; DESIGN RATING: 5 BAR; BOLT DIAMETER:<br/>M20; BOLTS DIAMETER: M20; SUPPLIER NOTE:<br/>BEFORE COMMENCEMENT OF ANY WORK THE<br/>APPLICATOR AND COATING MANUFACTURER<br/>SHALL COMPILE A DETAILED APPLICATION FOR<br/>THE WORKS; AND SUBMIT A DETAILED<br/>PROGRAMME SHOWING QUALITY CONTROL<br/>PLAN; DETAILED PROGRAM FOR THE COMPLETE<br/>PROJECT (BAR CHART); CLEAR ALL DIRT<br/>BEFORE COATING; ALL PITS IN EXCESS OF 2 &amp;<br/>5MM IN DEPTH SHALL BE FILLED USING 2<br/>COMPONENT SOLVENT FREE EPOXY FILLER;<br/>ABOVE 5MM FILLED BY WELDING; ALL EDGES;<br/>WELD SEAMS; NUTS &amp; BOLTS AND PITS LESS<br/>THAN 2MM IN DEPTH SHALL BE STRIPE COATED;<br/>SURROUNDINGS TO BE PROTECTED FROM<br/>OVERSPRAY &amp; COATING CONTAMINATION;<br/>COATED AREAS SHALL BE TESTED; COATING<br/>SYSTEM GUARANTEE MUST BE SUBMITTED AT<br/>THE TIME OF TENDER MUST BE IN LINE WITH<br/>ISO4628-3 CLAUSE 4.18; LATEST VERSION OF<br/>MATERIAL PRODUCT SHEET AND MATERIAL<br/>SAFETY DATA SHEET; VENDORS ARE<br/>RESPONSIBLE FOR ENSURING THAT THEY ARE</p> | 9 |  |  |
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|        |                                     | PERFORMING AGAINST THE CORRECT<br>DRAWING REVISION NUMBER.                                                                                                                                                                                                                                                                                                                                                                                                           |    |  |  |
|--------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|--|
| 591615 | Mix trains, cat ion, diaphram w, 5" | VALVE, DIAPHRAGM: TYPE: STRAIGHT; VALVE<br>SIZE: 5 IN; DESIGN RATING: 10 BAR;<br>TEMPERATURE RATING: -30 TO 120 DEG C;<br>CONNECTION: FLANGE; BODY MATERIAL: CI;<br>DIAPHRAGM MATERIAL: RUBBER NATURAL;<br>FACE TO FACE LENGTH: 355 MM; OPERATED:<br>HANDWHEEL; STYLE: BOLTED BONNET;<br>SOFTGOODS: DIAPHRAGM NITRILE;<br>APPLICATION: WATER PLANT; CATION; GRADE:<br>AA; FLANGE OD: 250MM; NUMBER OF HOLES: 8;<br>HOLE DIA: M16; PCD: 210MM; HERCULES LINED<br>BODY | 30 |  |  |

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|--------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|---|
| 612046 | Mix trains, cat ion, diaphragm wv, 3" | VALVE, DIAPHRAGM: TYPE: STRAIGHT; VALVE SIZE: 3 IN; DESIGN RATING: 10 BAR; TEMPERATURE RATING: -10 TO 40 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CAST IRON; DIAPHRAGM MATERIAL: RUBBER NATURAL; FACE TO FACE LENGTH: 254 MM; OPERATED: HANDWHEEL; SOFTGOODS: DIAPHRAGM NITRILE; APPLICATION: WATER PLANT; PCD: 146 MM                                                     | 9 |  | X |
| 666731 | Reclamation NRV's                     | VALVE, GATE: VALVE SIZE: 6 IN; TYPE: WEDGE; CONNECTION: FLANGE (8) HOLES, PCD 233 MM, STL; FACE TO FACE LENGTH: 212 MM; BODY MATERIAL: CI; OPERATED: HANDWHEEL; SOFTGOODS: LINING RUBBER; STEM DESIGN: RISING SPINDLE; TEMPERATURE RATING: -10 TO 40 DEG C; DESIGN RATING: 4 BAR; RESIST ACID AND CORROSION, BOLT SIZE M16                                                  | 6 |  | X |
| 667013 | Reclamation isolating valves          | VALVE, GATE: VALVE SIZE: DN300; TYPE: ISOLATING; DESIGN PRESSURE: 1600 KPA; DESIGN TEMPERATURE: -10 TO 40 DEG C; CONNECTION: FLANGE 410 PCD; FACE TO FACE LENGTH: 356 MM; BODY MATERIAL: SG IRON; TRIM: GATE X SG IRON; NRB/EPDM TOTALLY ENCAPSULATED; OPERATED: HAND WHEEL/MANUAL; STEM DESIGN: RISING SPINDLE; APPLICATION: WATER; FLANGES OG VALVE TO BE: BS4504 PN10/16 | 6 |  | X |

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|--------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|
| 251475 | Raw sewage NRV               | VALVE, CHECK: TYPE: SWING; CONNECTION: FLANGE 200, (4) HOLES, PCD 149 MM; BODY MATERIAL: CI; FACE TO FACE LENGTH: 265 MM; OPERATED: MANUAL; SOFTGOODS: LINING RUBBER; WITH M16 BOLTS                                                                   | 10 |   | X |
| 590166 | Recirculating v/v 1&2 bypass | VALVE, GATE: VALVE SIZE: 3 IN; TYPE: BYPASS; CONNECTION: FLANGE; FACE TO FACE LENGTH: 210 MM; BODY MATERIAL: CAST IRON; OPERATED: MANUAL; TEMPERATURE RATING: - 10 TO 40 DEG C; DESIGN RATING: 400 KPA; PCD: 140 MM                                    | 12 |   | x |
| 590165 | Valve, gate, 6in             | VALVE, GATE: VALVE SIZE: 6 IN; TYPE: INLET ISOLATION; CONNECTION: FLANGE; FACE TO FACE LENGTH: 300 MM; BODY MATERIAL: CAST IRON; OPERATED: MANUAL; TEMPERATURE RATING: -10 TO 40 DEG C; APPLICATION: SEWAGE PLANT; DESIGN RATING: 400 KPA; PCD: 235 MM | 12 | x |   |
| 590167 | Valve, gate, 6in             | VALVE, GATE: VALVE SIZE: 6 IN; TYPE: INLET; CONNECTION: FLANGE; FACE TO FACE LENGTH: 245 MM; BODY MATERIAL: CAST IRON; OPERATED: MANUAL; TEMPERATURE RATING: - 10 TO 40 DEG C; APPLICATION: SEWAGE PLANT; DESIGN RATING: 400 KPA; PCD: 235 MM          | 12 |   | x |

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|--------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---|
| 63805  | Valve, gate, fire, 20mm                 | VALVE, GATE: VALVE SIZE: 20 MM; TYPE: WEDGE; CONNECTION: THD; FACE TO FACE LENGTH: 52 MM; BODY MATERIAL: BRS; TRIM: DISC/STEM BRS; OPERATED: HANDWHEEL; STEM DESIGN: NON RISING SPINDLE; STYLE: THD BONNET; TEMPERATURE RATING: 175 DEG C; DESIGN RATING: 1600 KPA; SUPPLIER NOTE: TO BE SUPPLIED ACCORDING TO S.A.B.S. SPECIFICATION WITH A PRESSURE CERTIFICATE; REFERENCE NO: 1001-125 | 60 |  | x |
| 236956 | Valve, angle, 50mm, 0-12 bar            | VALVE, ANGLE: VALVE SIZE: 50 MM; DESIGN RATING: 0-12 BAR; CONNECTION: THD; BODY MATERIAL: BRS; PART NO: 460481009                                                                                                                                                                                                                                                                         | 20 |  | x |
| 235635 | Valve, fire control, 100mm, 12.1 bar    | VALVE: TYPE: FIRE CONTROL; VALVE SIZE: 100 MM; DESIGN RATING: 12.1 BAR; CONNECTION: FLANGE; TYCO WET ALARM VALVE; MODEL NO: AV1-175 WITH RC1                                                                                                                                                                                                                                              | 8  |  | x |
| 235673 | Valve, automatic drain, 15mm            | VALVE: TYPE: AUTOMATIC DRAIN; VALVE SIZE: 15 MM; DESIGN RATING: 2000 KPA; CONNECTION: THD; FIRE CONTROL SYSTEM; MODEL NO: AD-1; PART NO: 527931004                                                                                                                                                                                                                                        | 30 |  | x |
| 235670 | Valve, preactive DV -5, 100mm, 12.1 bar | VALVE: TYPE: PRE ACTION; VALVE SIZE: 100 MM; DESIGN RATING: 12.1 BAR; CONNECTION: FLANGE; DELUGE VALVE ASSEMBLY; FIRE CONTROL SYSTEM; FLANGE: 8 HOLE; TABLE E; MODEL NO: DV-1; REFERENCE NO: DV-5                                                                                                                                                                                         | 6  |  | x |

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| 235669 | Valve, butterfly, semi lug                | VALVE, BUTTERFLY: TYPE: SEMI LUG; VALVE SIZE: 200 MM; DESIGN RATING: 12.1 BAR; CONNECTION: FLANGE; BODY MATERIAL: DI/SS; FIRE CONTROL SYSTEMS; TABLE E; PART NO: 812195200                                                                                                                                                          | 8  |  | x |
| 235674 | Valve, deluge, 150mm, 12.1 bar            | VALVE: TYPE: DELUGE; VALVE SIZE: 150 MM; DESIGN RATING: 12.1 BAR; TEMPERATURE RATING: -10 TO 40 DEG C; CONNECTION: FLANGE; OPERATED: PNEUMATIC; BODY MATERIAL: GUNMETAL LEADED; FIRE CONTROL SYSTEMS; FLANGE 8 HOLE; TABLE E; REFERENCE NO: DV-1; PART NO: 523091015                                                                | 12 |  | x |
| 235676 | Valve, accelerator, 15mm                  | VALVE: TYPE: ACCELERATOR; VALVE SIZE: 15 MM; CONNECTION: THD; BODY MATERIAL: AL ALLOY; TRIM: INTERNALS SS; SOFTGOODS: SEAL EPDM/SILICONE; RATING AIR/WATER 4.8/17.2 BAR; WITH AUSTENITIC SERIES; REFERENCE NO: ACC-1; PART NO: 523111001                                                                                            | 10 |  | x |
| 226161 | Valve, diaphragm, deluge, 150mm, 12.1 bar | VALVE, DIAPHRAGM: TYPE: WEIR; VALVE SIZE: 50 MM; DESIGN RATING: 1200 KPA; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE; BODY MATERIAL: DI; DIAPHRAGM MATERIAL: RUBBER; FACE TO FACE LENGTH: 180 MM; OPERATED: PNEUMATIC; SPECIFICATION: BS 2789-450-10; DELUGE MULTI JET CONTROL; FOR USE ON THE FIRE PROTECTION SYSTEM | 4  |  | x |

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| 226160 | Valve, butterfly, semi lug, 100mm, 1200kpa | VALVE, BUTTERFLY: TYPE: SEMI LUG; VALVE SIZE: 100 MM; DESIGN RATING: 1200 KPA; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: BOLTED; BODY MATERIAL: SS; FACE TO FACE LENGTH: 53 MM; OPERATED: LEVER; FOR USE ON FIRE PROTECTION SYSTEM; PART NO: 812195100 | 4  |  | x |
| 226159 | Valve, butterfly, semi lug, 150mm, 1200kpa | VALVE, BUTTERFLY: TYPE: SEMI LUG; VALVE SIZE: 150 MM; DESIGN RATING: 1200 KPA; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: BOLTED; BODY MATERIAL: SS; FACE TO FACE LENGTH: 58 MM; OPERATED: LEVER; FOR USE ON FIRE PROTECTION SYSTEM; PART NO: 812195150 | 4  |  | x |
| 235297 | Diaphragm valve: 1000kpa, 40mm dia         | DIAPHRAGM, VALVE: DIMENSIONS: DIA 40 MM; MATERIAL: RUBBER; FOR PACE MJ CONTROLS; RATING: 1000 KPA                                                                                                                                                              | 50 |  | x |
| 235296 | Diaphragm valve, 1000kpa, 50mm dia         | DIAPHRAGM, VALVE: DIMENSIONS: DIA 50 MM; MATERIAL: RUBBER; FOR PACE MJ CONTROLS; RATING: 1000 KPA                                                                                                                                                              | 50 |  | x |
| 226169 | Diaphragm valve, 40mm vlv, 16 bar          | DIAPHRAGM, VALVE: DIMENSIONS: DIA 40 MM; MATERIAL: BRS; VALVE SIZE: 40 MM; FOR USE ON THE FIRE PROTECTION SYSTEM; RATING: 16 BAR                                                                                                                               | 50 |  | x |

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| 226168 | Diaphragm valve, 50mm vlv, 16 bar | DIAPHRAGM, VALVE: MATERIAL: BRS; VALVE SIZE: 50 MM; FOR USE ON THE FIRE PROTECTION SYSTEM; RATING: 16 BAR                                                                                                                                                                                                                                                                                              | 60 |  | x |
| 242338 | Valve, hydrant                    | VALVE, GATE: VALVE SIZE: 80 X 65 MM; TYPE: WEDGE; CONNECTION: FLANGE; FACE TO FACE LENGTH: 230 MM; BODY MATERIAL: DI; OPERATED: HANDWHEEL; SOFTGOODS: LINING RUBBER; STEM DESIGN: OUTSIDE SCREW; STYLE: BOLTED BONNET; TEMPERATURE RATING: -10 TO 40 DEG C; APPLICATION: FIRE SYSTEM; SPECIAL FEATURES: EPDM RUBBER; DESIGN RATING: 16 BAR; SERVICE WATER; PART NO: 65-80, MANUFACTURER: AINSWORTH     | 60 |  | x |
| 623669 | Valve, gate, 2.5', deluge system  | VALVE, GATE: VALVE SIZE: 2-1/2 IN; TYPE: WEDGE; DESIGN PRESSURE: 16 BAR; DESIGN TEMPERATURE: -10 TO 40 DEG C; CONNECTION: FLANGE; FACE TO FACE LENGTH: 185 MM; BODY MATERIAL: DI; TRIM: EPDM RUBBER; OPERATED: MANUAL; STEM DESIGN: RISING SPINDLE; APPLICATION: FIRE SYSTEM; PCD: 145 MM; NUMBER OF HOLES: 4; COLOUR: RED; SPECIAL FEATURES: FUSION BONDED POLYESTER RESIN COATING INSIDE AND OUTSIDE | 10 |  | x |

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|--------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|
| 605878 | Valve, gate, 4", deluge system                  | VALVE, GATE: VALVE SIZE: 4 IN; TYPE: WEDGE;<br>CONNECTION: FLANGE; FACE TO FACE LENGTH:<br>229 MM; BODY MATERIAL: DI; OPERATED: HAND;<br>TEMPERATURE RATING: -10 TO 40 DEG C;<br>SPECIAL FEATURES: EPDM RUBBER; DESIGN<br>RATING: 16 BAR; FUSION BONDED POLYESTER<br>RESIN COATING INSIDE AND OUT; PCD: 180 MM;<br>COLOUR: RED; SPECIAL FEATURES: FULLY<br>ENCAPSULATED WITH EPDM RUBBER                                                                                            | 20 | x |   |
| 620938 | Valve, gate, 4", deluge system,<br>Burner front | VALVE, GATE: VALVE SIZE: 4 IN; TYPE: WEDGE;<br>DESIGN PRESSURE: 16 BAR; DESIGN<br>TEMPERATURE: -10 TO 40 DEG C; CONNECTION:<br>FLANGE: FACE TO FACE LENGTH: 250 MM; BODY<br>MATERIAL: DI; TRIM: DISC EPDM; OPERATED:<br>MANUAL; TEMPERATURE RATING: -10 TO 40 DEG<br>C; APPLICATION: FIRE SYSTEM; SPECIAL<br>FEATURES: EPDM RUBBER; RISING SPINDLE;<br>PCD: 180 MM; COLOUR: RED; FULLY<br>ENCAPSULATED WITH EPDM RUBBER; FUSION<br>BONDED POLYESTER RESIN COATING INSIDE<br>AND OUT | 12 |   | x |

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|        |                                |                                                                                                                                                                                                                                                                                                                           |    |   |   |
|--------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|
| 605880 | Valve, gate, 6", deluge system | VALVE, GATE: VALVE SIZE: 6 MM; TYPE: WEDGE;<br>CONNECTION: FLANGE; FACE TO FACE LENGTH:<br>267 MM; BODY MATERIAL: DI; OPERATED: HAND;<br>TEMPERATURE RATING: -10 TO 40 DEG C;<br>APPLICATION: FIRE SYSTEM; DESIGN RATING:<br>16 BAR; FUSION BONDED POLYESTER RESIN<br>COATING INSIDE AND OUT; PCD: 240 MM;<br>COLOUR: RED | 12 | x |   |
| 646056 | Alarm check valve              | VALVE, CHECK: TYPE: ALARM; VALVE SIZE: 100<br>MM; DESIGN RATING: 10 BAR; TEMPERATURE<br>RATING: -10 TO 40 DEG C; CONNECTION:<br>FLANGE; BODY MATERIAL: DI; FACE TO FACE<br>LENGTH: 257 MM; OPERATED: AUTOMATIC;<br>APPLICATION: FIRE SYSTEM; PCD: 180 MM;<br>MODEL NO: AV-1; PART NO: P/N52-203-1-013                     | 10 |   | X |
| 620937 | Diaphragm vv, DN100            | VALVE, DIAPHRAGM: TYPE: STRAIGHT; VALVE<br>SIZE: 3 IN; DESIGN RATING: 10 BAR;<br>TEMPERATURE RATING: -10 TO 40 DEG C;<br>CONNECTION: FLANGED; BODY MATERIAL: CAST<br>IRON; DIAPHRAGM MATERIAL: RUBBER<br>NATURAL; FACE TO FACE LENGTH: 254 MM;<br>OPERATED: MANUAL; APPLICATION: CONTROL<br>AIR; PCD: 160 MM              | 8  |   | X |

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