

	Supply and Delivery of Mechanical Valves and Diaphragms SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		


Project Name: Supply and Delivery of Mechanical Valves and Diaphragms

Project Address: *Kusile Power Station, R545 Kendal/Balmoral Road, Haartebeesfontein Farm, Witbank 1035*

Scope of the project: Supply and Delivery of Mechanical Valves and Diaphragms

Eskom Contract's Manager


Name: Amander Mngomezulu

Signature: 

Date: 26.05.2022

Eskom's Health and Safety Manager

Name: Ntokozo Mashita

Signature: 

Date: 26/05/2022

Eskom's Procurement Manager

Name: Matshdiso Kgafane

Signature: 

Date: 30 May 2022

Eskom's Safety Officer

Name: N/A

Signature: N/A

Date: N/A

Eskom's Quality Manager

Name: Sazi Zungu

Signature: 

Date: 26.05.2022

Eskom's Environmental Manager

Name: Lesiba Kgobe


Signature: 

Date: 26/05/2022

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1. INTRODUCTION

Eskom Kusile Power Station's responsibility and commitment is to ensure a safe working environment is in line with its Safety, Health, Environmental and Quality Policy, along with legislative obligations.

This SHE specification is Eskom Kusile Power Station's minimum requirements which are required to be met for the specific contract and for the duration of the contract period by contractors and where required, the delivery organisation.

Eskom in no way assumes the contractor's legal responsibilities. The contractor is and remains accountable for the quality and the execution of his/her health and safety programme for his/her employees and appointed contractor employees.

This SHE specification reflects minimum requirements and should not be construed as all encompassing.

Note 1: All the requirements listed hereunder are in relation to the contract and do not supersede or replace any organizational SHE requirements.

Note 2: In terms of Eskom requirements, a section of this professional contract falls within the requirements of the Construction Regulations.

Although there are requirements listed in this specification that do not pertain directly to air charter, the requirements are expect of an air charter contractor business to conform to. These requirements are in line with Eskom's Zero Harm value.

Where requirements listed are already in place, then the organisational requirements must be taken cognisance of and listed in the respective SHE plans. If there are any additional Eskom and or legislative requirements listed in the SHE specification, then these must be addressed.

2. SUPPORTING CLAUSES

2.1 SCOPE

This SHE specification lists the legislative and Eskom requirements and where applicable, any requirements pertaining to Local Authorities / Municipal by-laws / Environmental legislation that must be met by the contractor.

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2.1.1 Purpose

To indicate OHS requirements applicable to the supply and delivery of Mechanical Valves and Diaphragms to Kusile Power Station

2.1.2 Applicability

This SHE specification is applicable to all suppliers to supply and deliver Mechanical Valves and Diaphragms to Kusile Power Station

2.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

- [1] Basic Conditions of Employment Act No 75 of 1997.
- [2] Occupational Health and Safety Act and Regulations No 85 of 1993.
- [3] National Environmental Management Act 107 of 1998.
- [4] National Road Traffic Act 93 of 1996.
- [5] 32-37 Eskom Substance Abuse Procedure.
- [6] Civil Aviation Act 13 of 2009.
- [7] Air Services Licence Act 115 of 1990.

2.2.2 Informative

- [8] 32-726 Contracts and Contractor OHS Management Standard
- [9] 240-62196227 Eskom Life Saving Rules
- [10] Tobacco Products Control Act 83 of 1993 (Updated 2011.05.19)
- [11] SANS 1186 Symbolic Safety Signs
- [12] Constitution of the Republic of South Africa No 108 of 1996
- [13] 32-95 Eskom Procedure Manual for Performing Occupational Health & Safety Management: Conducting EH&S Incident Management,

Definitions

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Definition	Explanation
Appointed contractor	Means a contractor appointed by the principal contractor
Baseline risk assessment	(32-520) baseline operational risks refer to the health and safety risks associated with all standard processes and routine activities in the business
Client	Eskom representative (Internal – Asset Owner), also referred to as the contract administrator/custodian or agent or project manager (as defined in the contract). He/she is the person responsible for ensuring that the works or services are executed in terms of the contract, as well as adherence to legislation pertaining to the contract.
Competent person	(OHS Act) means any person having the knowledge, training, experience, and qualifications, specific to the work or task being performed, provided that, where appropriate, qualifications and training are registered in terms of the South African Qualifications Authority Act, 1995 (Act No. 58 of 1995)
Contractor – includes appointed contractor	means an employer as defined in section 1 of the Act who performs contract work and includes principal contractors
Consultant	means a person providing professional advice
Duty of care to the environment	(32-136) anybody who causes or has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing, or recurring. If such harm to the environment is authorised by law or cannot reasonably be avoided or stopped, such person must minimise and rectify such pollution or degradation of the environment
Employee	(OHS Act) means, subject to the provisions of subsection (2), any person who is employed by or works for an employer and who receives or is entitled to receive any remuneration or who works under the direction or supervision of an employer or any other person
Employer	(OHS Act) means, subject to the provisions of subsection (2), any person who employs or provides work for any person and remunerates that person or expressly or tacitly undertakes to remunerate him/her, but excludes a TES (ex labour broker) as defined in section 1(1) of the Labour Relations Act 1956 (Act No. 28 of 1956)
Eskom requirements	a) Eskom requirements flowing from directives, policies, standards, procedures, specifications, work instructions, guidelines, or manuals
Hazard	(OHS Act) means a source of, or exposure to, danger
Hazard identification	(OHS Act) means the identification and documenting of existing or expected hazards to the health and safety of persons, which are normally associated with the type of construction work being executed or to be executed
Health and safety file	(OHS Act) means a file or other record, containing the information in writing required by the construction regulations.
Health and safety plan	(OHS Act) means a site, activity or project specific document plan in accordance with the client's health and safety specifications.
Health and safety specification	(OHS Act) means a site, activity or project specific document prepared by the client pertaining to all health and safety requirements related to construction work.

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Health and safety requirements	means comprehensive health and safety requirements for a contract, project, site, and scope of work. This specification is intended to ensure the health and safety of persons, both workers and the public, and the duty of care to the environment. The health and safety requirements must be specific to each contract, project, site, and scope of work
Medical certificate of fitness	(OHS Act) means a certificate specific to the work to be performed and issued by an occupational health practitioner in the form of Annexure 3 of the construction regulations.
Medical surveillance	(OHS Act) means a planned programme or periodic examination (which may include clinical examinations, biological monitoring, or medical tests) of employees by an occupational health practitioner or, in prescribed cases, by an occupational medicine practitioner
Method statement	(OHS Act) means a written document detailing the key activities to be performed in order to reduce, as reasonably as practicable, the hazards identified in any risk assessment
Organisation	may be defined as a group of individuals (large or small) that is cooperating under the direction of executive leadership in accomplishment of certain common objects
Pre-job meetings	(34-227) means a meeting that is held prior to the commencement of the day's work and that is attended by all the relevant employees associated with the work task
Principal contractor	(In the text of this document) Means an employer, as defined in section 1 of the OHS Act, who intends to tender for or has signed a contract with Eskom for services rendered.
Provincial director	(OHS Act) means the provincial director as defined in Regulation 1 of the General Administrative Regulations under the Act
Responsible Manager	Is a Manager of a department, section or operating/business unit who has been appointed as part of the Eskom delegation of authority process with the aim to assist the applicable 16(2) assigned person in executing his/her duties in terms of the Occupational Health and Safety Act
Risk assessment	(OHS Act) means a programme to determine any risk associated with any hazard at a construction site in order to identify the steps needed to be taken to remove, reduce, or control such hazard.
Site	(34-228) means an Eskom department, unit, complex, building, specific project, work site, or the site where agents, clients, principal contractors, contractors, suppliers, vendors, and service providers provide a service to Eskom, directly or indirectly
Service provider	any private person or legal entity that provides any service(s) to Eskom for compensation
Task	(34-227) a segment of work that requires a set of specific and distinct actions for its completion
Toolbox talks	(34-227) where the team leader, after conducting pre-task planning, shares all the tasks at hand and discusses task allocation, the identified risks, and the control measures with all his/her team members on site before commencing a specific task and documenting the agreed strategy. (This shall be done to ensure common understanding of the tasks, risks, and control measures required.)

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The Act	(OHS Act) means the Occupational Health and Safety Act No. 85 of 1993, as amended, and the Regulations thereto
Visitor	any person visiting a workplace with the knowledge of, or under the supervision of, an employer.

2.3 Abbreviations

Abbreviation	Description
BU	Business Unit
CE	Chief Executive
COID Act	Compensation for Occupational Injuries and Diseases Act
CR	Construction Regulations
DMR	Driven Machinery Regulations
DoL	Department of Labour (Inspection and Enforcement services – Provincial office)
EP	Emergency Preparedness
EAP	Employee Assistance Program
ERfW	Environmental Regulations for Workplaces
GAR	General Administrative Regulations
GSR	General Safety Regulations
HCS	Hazardous Chemical Substances
LDV	Light Delivery Vehicle
MSDS	Material Safety Data Sheets
NEMA	National Environmental Management Act
OHS Act	Occupational Health and Safety Act and Regulations, 85 of 1993
SABS	South African Bureau Standard
SANS	South African National Standard

2.5 Related/Supporting Documents

Eskom OHS Act section 37 (2) agreement (to be completed by the contract responsible manager).

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3. Specification

3.1 Scope of work

A copy of the scope of works must be retained by the contractor.

Note: The contractor who will be awarded this contract will be known as the “principal contractor” and any contractor appointed by the principal contractor will be known as the “appointed contractor”.

Material Number	Long Description
614304	VALVE, BUTTERFLY: TYPE: DOUBLE ACTING; VALVE SIZE: NB 80; DESIGN RATING: 900 KPA; TEMPERATURE RATING: MAX 40 DEG C; CONNECTION: FLANGE BS 4504 PN 10; BODY MATERIAL: CI GRAY GR 260 BSP 1420; FACE TO FACE LENGTH: 46 MM; OPERATED: ACTUATOR; SPECIAL FEATURES: MAINTENANCE FREE WITH SELF-LUBRICATING BEARINGS, SQUARE DRIVE SHAFTS FOR POSSIBLE DIRECT MOUNTING OF ACTUATORS
614305	VALVE, BUTTERFLY: TYPE: DOUBLE ACTING; VALVE SIZE: NB 50; DESIGN RATING: 900 KPA; TEMPERATURE RATING: -15 TO 105 DEG C; CONNECTION: FLANGE BS 4504 PN 10; BODY MATERIAL: CI GRAY GR 260 BSP 1420; FACE TO FACE LENGTH: 43 MM; OPERATED: ACTUATOR PNEUMATIC; SPECIAL FEATURES: MAINTENANCE FREE WITH SELF-LUBRICATING BEARINGS, SQUARE DRIVE SHAFTS FOR POSSIBLE DIRECT MOUNTING OF ACTUATORS
614306	VALVE, BUTTERFLY: TYPE: PINLESS DISC; VALVE SIZE: NB 100; DESIGN RATING: 900 KPA; TEMPERATURE RATING: -15 TO 105 DEG C; CONNECTION: WAFER; BODY MATERIAL: CI ASTM A126 CL B; FACE TO FACE LENGTH: 52 MM; OPERATED: MANUALLY; SPECIAL FEATURES: MAINTENANCE FREE WITH SELF-LUBRICATING BEARINGS, SQUARE DRIVE SHAFTS FOR POSSIBLE DIRECT MOUNTING OF ACTUATORS; FLANGE DIMENSIONS AND DRILLING IN ACCORDANCE WITH ISO STANDARD 5211/1
620151	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 100 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 52 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER TREATMENT PLANT; GRADE: 65-45-12; SPECIFICATION: S30-324; STYLE: WAFER; DRAWING NO: BV-1/BV-6/BV-7&BV-8 REV 0; SUPPL P/N: DN100/200400-110AT328/CF69

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620152	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 80 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 100 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 46 MM; OPERATED: MANUAL; TRIM: DISC ASTM A747 TYPE CB7CU EPDM; SEAT EPDM; STEM ACETAL; STEM BUSHING BUNA-N; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S21-328; STYLE: LUG; SUPPL P/N: DN80/210300-110AT328/CF69
620153	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 50 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 100 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 43 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC ASTM A747 TYPE CB7CU EPDM; SEAT EPDM; STEM BUSHING BUNA-N; STEM SEAL ACETAL; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S20-328; STYLE: WAFER; DRAWING NO: BV-1A/BV-7A&BV-8A REV 0; SUPPL P/N: DN50/200200-110AT328/CF69; POSSIBLE SUPPLIER: BRAY ARMATUREN AND ANTRIEBE EUROPA
0620154	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 65 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 100 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 46 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC ASTM A747 TYPE CB7CU EPDM; SEAT EPDM; STEM ACETAL; STEM BUSHING BUNA-N; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S20-328; STYLE: WAFER; DRAWING NO: BV-1A&BV-7A REV 0; SUPPL P/N: DN65/200250-110AT328/CF69; POSSIBLE SUPPLIER: BRAY ARMATUREN AND ANTRIEBE EUROPA
0620155	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 300 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 78 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S30-324; STYLE: WAFER; SUPPL P/N: DN300/301200-110AT324/CF69
0620156	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 250 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 68 MM; OPERATED: MANUAL; TRIM: DISC STEM ASTM A747 TYPE CB7CU-1/EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S21-328; STYLE: LUG; SUPPL P/N: DN250/211000-110AT328/CF69; POSSIBLE SUPPLIER: BRAY ARMATUREN AND ANTRIEBE EUROPA

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0620157	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 150 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 68 MM; OPERATED: MANUAL; TRIM: DISC STEM ASTM A747 TYPE CB7CU-1/EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S20-328; STYLE: WAFER; SUPPL P/N: D150/200600-110AT328/CF69
0620158	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 600 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; FACE TO FACE LENGTH: 151 MM; OPERATED: MANUAL; TRIM: DISC STEM ASTM A747 TYPE CB7CU-1/EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S36-324; STYLE: FLANGED WAFER; SUPPL P/N: DN600/362400-11075324/CF69
0620159	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 500 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; FACE TO FACE LENGTH: 127 MM; OPERATED: MANUAL; TRIM: DISC STEM ASTM A747 TYPE CB7CU-1/EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S30-324; STYLE: WAFER; SUPPL P/N: DN500/302000-110AT324/CF69
0620160	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 450 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; FACE TO FACE LENGTH: 108 MM; OPERATED: MANUAL; TRIM: DISC STEM ASTM A747 TYPE CB7CU-1/EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S30-324; STYLE: WAFER; SUPPL P/N: DN450/301800-110AT324/CF69

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0620161	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 400 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; FACE TO FACE LENGTH: 102 MM; OPERATED: MANUAL; TRIM: DISC STEM ASTM A747 TYPE CB7CU-1/EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S30-324; STYLE: WAFER; SUPPL P/N: ND400/301600-110AT324/CF69
0620162	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 350 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; FACE TO FACE LENGTH: 78 MM; OPERATED: MANUAL; TRIM: DISC STEM ASTM A747 TYPE CB7CU-1/EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S30-324; STYLE: WAFER; SUPPL P/N: DN350/301400-110AT324/CF69
0620163	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 200 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 100 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: DISC SS GR CF8M ASTM A351; SEAT EPDM; STEM BUSHING ACETAL; FACE TO FACE LENGTH: 60 MM; OPERATED: MANUAL; TRIM: DISC STEM ASTM A747 TYPE CB7CU-1/EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S20-328; STYLE: WAFER; SUPPL P/N: DN200/200800-110AT328/CF69
0621098	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 50 MM; DESIGN RATING: 1000 KPA G; TEMPERATURE RATING: 100 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 43 MM; OPERATED: MANUAL; TRIM: DISC ASTM A747 TYPE CB7CU EPDM; SEAT EPDM; STEM BUSHING BUNA-N; STEM SEAL ACETAL; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S21-328; STYLE: LUG; DRAWING NO: BV-3A REV 0; SUPPL P/N: 210200-110AT328/CF69

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0621099	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 50 MM; DESIGN RATING: 1000 KPA G; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 43 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S30-324; STYLE: WAFER; DRAWING NO: BV-1/BV-6/BV-7/BV-8 REV 0; SUPPL P/N: 300200-110AT324/CF69
0621100	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 300 MM; DESIGN RATING: 1000 KPA G; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 78 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC ASTM A747 TYPE CB7CU EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S20-328; STYLE: WAFER; SUPPL P/N: 201200-11AT328/CF69
0621101	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 300 MM; DESIGN RATING: 1000 KPA G; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 78 MM; OPERATED: MANUAL; TRIM: DISC ASTM A747 TYPE CB7CU EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S21-328; STYLE: LUG; SUPPL P/N: 211200-110AT328/CF69
0621102	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 250 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 68 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S30-324; STYLE: WAFER; SUPPL P/N: 301000-110AT324/CF69
0621103	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 250 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 68 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC STEM ASTM A747 TYPE CB7CU-1/EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S20-328; STYLE: WAFER; DRAWING NO: BV-6A REV 0; SUPPL P/N: 2012000-110AT328/CF69

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0621104	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 200 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 60 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S30-324; STYLE: WAFER; SUPPL P/N: 201000-110AT328/CF69
0621105	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 150 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 100 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 56 MM; OPERATED: MANUAL; TRIM: DISC STEM ASTM A747 TYPE CB7CU-1/EPDM; SEAT EPDM; STEM BUSHING ACETAL; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S21-328; STYLE: LUG; DRAWING NO: BV-3A REV 0; SUPPL P/N: 210600-110AT328/CF69
0621106	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 150 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 56 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S30-324; STYLE: WAFER; DRAWING NO: BV-1/BV-2/BV-8 REV 0; SUPPL P/N: 300600-110AT324/CF69
0621107	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 150 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 56 MM; OPERATED: MANUAL; TRIM: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S31-324; STYLE: LUG; DRAWING NO: BV-3 REV 0; SUPPL P/N: 310600-110AT324/CF69
0621108	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 100 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 100 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 52 MM; OPERATED: MANUAL; TRIM: DISC ASTM A351 GR CF8M; SEAT EPDM; STEM ASTM A276 GR 316; STEM SEAL BUNA-N; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S20-328; STYLE: WAFER; DRAWING NO: BV-1A REV 0

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0621109	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 80 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 100 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 46 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC ASTM A747 TYPE CB7CU EPDM; SEAT EPDM; STEM ACETAL; STEM BUSHING BUNA-N; APPLICATION: CHEMICAL; GRADE: 65-45-12; SPECIFICATION: S20-328; STYLE: WAFER; DRAWING NO: BV-1A/BV-6A/BV-7A REV 0; SUPPL P/N: 200300-110AT328/CF69
0621110	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 80 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 46 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S31-324; STYLE: LUG; DRAWING NO: BV-3 REV 0; SUPPL P/N: 310300-110AT324/CF69
0621111	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: 80 MM; DESIGN RATING: 1000 KPA; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A536 POLYESTER COATED; FACE TO FACE LENGTH: 46 MM; OPERATED: ACTUATOR PNEUMATIC, MANUAL; TRIM: DISC SS GR CF8M ASTM A351; RETAINING RING SS GR 304; SEAT EPDM; STEM BUSHING ACETAL; STEM RETAINER BRS; STEM SS GR 316 ASTM A276; THRUST WASHER BRS; SOFTGOODS: STEM SEAL BUNA-N; APPLICATION: WATER; GRADE: 65-45-12; SPECIFICATION: S30-324; STYLE: WAFER; DRAWING NO: BV-1/BV-6/BV-7/BV-8 REV 0; SUPPL P/N: 300300-110AT324/CF69
0647652	VALVE, BUTTERFLY: VALVE SIZE: DN 200; DESIGN RATING: PN40; SPECIFICATION: AB550N/SG400; SUPPL P/N: L1-200D-AA11SG; COMPLETE VALVE; L1 WITH ROTORK GEARBOX AND HANDWHEEL
0647653	VALVE, BUTTERFLY: VALVE SIZE: DN 250; DESIGN RATING: PN40; SPECIFICATION: AB880N/SG400; SUPPL P/N: L1-250D-AA11SG; COMPLETE VALVE; L1 WITH ROTORK GEARBOX AND HANDWHEEL
0647654	VALVE, BUTTERFLY: VALVE SIZE: DN 150; DESIGN RATING: PN40; SPECIFICATION: AB550N/PS200; SUPPL P/N: L1-150D-AA11SG; L1 WITH ROTORK GEARBOX AND HANDWHEEL

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0648248	VALVE, BUTTERFLY: TYPE: WAFER; VALVE SIZE: 80 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 40 DEG C; CONNECTION: FLANGE BS 4504 PN 10; BODY MATERIAL: CI; FACE TO FACE LENGTH: 45 MM; OPERATED: MANUAL; SOFTGOODS: BLOCK RING 65MN; DOWNSTEM 45/416; GASKET 201; O-RING EPDM; SEAT EPDM/NBR/VITON; UPSTEM 45/416; APPLICATION: PJFFP BLOW ROOMS AERATION; SPECIFICATION: BS 5155; SUPPL P/N: 556.0029
0649955	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 150 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 20 DEG C; CONNECTION: FLANGE; BODY MATERIAL: CI JS1030 (3G); FACE TO FACE LENGTH: 56 MM; OPERATED: LEVER SR 330 MM; SOFTGOODS: DISC SGI CAST JS1030; EPMD (3X); LINER EPMD XA(XA); SHAFT SS 1.4029 (6K); APPLICATION: CHLORIDE BLOWDOWN; SPECIFICATION: ISORIA 10 DN 150 T4 PN10 3G6K3XXA; RAISED FACE-T4
0649956	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 100 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 20 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: CI JS1030 (3G); FACE TO FACE LENGTH: 52 MM; OPERATED: MR 25 MARINE; SOFTGOODS: DISC SGI CAST JS1030; EPMD (3X); LINER EPMD XA(XA); SHAFT SS 1.4029 (6K); APPLICATION: CHLORIDE BLOWDOWN; SPECIFICATION: ISORIA 10 DN 100 T4 PN10 3G6K3XXA
0653265	VALVE, BUTTERFLY: TYPE: ISOLATING; APPLICATION: AUXILIARY BOILER 1 DEMINERALISED WATER SUPPLY SYSTEM INLET; SUPPL P/N: SP-KUS-F2-05434
0654615	VALVE, BUTTERFLY: VALVE SIZE: DN 100; DESIGN RATING: PN40; SPECIFICATION: PS160; SUPPL P/N: L1.AB210N/DN100
0654622	VALVE, BUTTERFLY: VALVE SIZE: DN115; DESIGN RATING: PN40; SPECIFICATION: PS160; SUPPL P/N: L1.AB210N/DN115
0654816	VALVE, BUTTERFLY: CONNECTION: BW; SUPPL P/N: II.D168.3/D1
0654817	VALVE, BUTTERFLY: CONNECTION: BW; SUPPL P/N: II.D76.1/D70
0655980	VALVE, BUTTERFLY: TYPE: DOUBLE ECCENTRIC; VALVE SIZE: DN 150; DESIGN RATING: PN16; APPLICATION: MILL 10-50 COAL FEEDER SCAVENGING AIR ISOLATING; SUPPL P/N: CONAXE20W20; HIGH PERFORMANCE
0655987	VALVE, BUTTERFLY: VALVE SIZE: DN 100; DESIGN RATING: PN16; BODY MATERIAL: AL; FACE TO FACE LENGTH: 52 MM; TRIM: DISC: STL 1.4408; APPLICATION: MILL 10-50 COAL FEEDER SCAVENGING AIR ISOLATING; SUPPL P/N: AK151-100/4IN-DN100/PN16

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0656114	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 50 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE PN16; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 43 MM; OPERATED: LEVER-SR-180MM; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SS 1.4401/1.4406 WITH COATING P16 (16); APPLICATION: MIST ELIMINATOR; SUPPL P/N: 16DN50.T4.PN16.3G6K6XA-LEVER180MM; LINER-EPDM XA (XA); WITH RAISED FACE; ISORIA
0656117	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 50 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 43 MM; OPERATED: LEVER-SR-180MM; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030; EPDM(3X); APPLICATION: ABSORBER BLEED SYSTEM; SUPPL P/N: 10DN50.T4.PN10.3G6K3XXA-LEVER180MM; ISORIA
0656120	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 80 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 46 MM; OPERATED: LEVER-SR-260MM; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030; EPDM(3X); APPLICATION: ABSORBER BLEED SYSTEM; SUPPL P/N: 10DN80.T4.PN10.3G6K3XXA-LEVER-SR-260MM; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0656122	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 100 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE PN16; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 52 MM; OPERATED: LEVER-SR-330MM; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SS 1.4401/1.4406 WITH COATING P16 (16); APPLICATION: FIRE FIGHTING AND RAW WATER SUPPLY; SUPPL P/N: 16DN100.T4.PN16.3G6K6XA-LEVER-SR-330MM; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0656124	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 150 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE PN16; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 56 MM; OPERATED: LEVER-SR-330MM; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SS 1.4401/1.4406 WITH COATING P16 (16); APPLICATION: FGD WATER SYSTEM; SUPPL P/N: 16DN150.T4.PN16.3G6K6XA-LEVER-SR-330MM; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA

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0656125	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 150 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 56 MM; OPERATED: LEVER-SR-330 MM; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030; EPDM(3X); APPLICATION: RECLAIMING WATER TANKS DRAIN; SUPPL P/N: 10DN150.T4.3G6K3XXA-LEVER-SR-330MM; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0656127	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 200 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE PN16; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 60 MM; OPERATED: MR-25-MARINE; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SS 1.4401/1.4406 WITH COATING P16 (16); APPLICATION: FGD WATER SYSTEM; SUPPL P/N: 16DN200.T4.PN16.3G6K6XA-MR25-MARINE; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0656129	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 200 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 60 MM; OPERATED: MR-25-MARINE; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030; EPDM (3X); APPLICATION: RECLAIMING WATER; SUPPL P/N: 10DN200.T4.PN10.3G6K3XXA-MR-25-MARINE; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0656131	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 200 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -20 TO 120 DEG C; CONNECTION: FLANGE PN16; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 60 MM; OPERATED: MR-25-MARINE; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030 WITH HARD RUBBER COATING (3P); APPLICATION: ABSORBER RECYCLE WATER SUPPLY; SUPPL P/N: 16DN200.T4.PN16.3G6K3PXA-MR-25-MARINE; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0656133	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 250 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -20 TO 20 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 68 MM; OPERATED: MR-50-MARINE; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030 WITH HARD RUBBER COATING (3P); APPLICATION: RAPID DRAIN TANK DRAIN; SUPPL P/N: 16DN250.T4.PN10.3G6K3PXA-MR-50-MARINE; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA

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0656134	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 250 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -20 TO 20 DEG C; CONNECTION: FLANGE PN16; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 68 MM; OPERATED: LEVER-SM-530 MM; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SS 1.4408 (6K); APPLICATION: FGD WATER SYSTEM; SUPPL P/N: 16DN250.T4.PN16.3G6K6XA-LEVER-SM-530MM; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0656135	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 250 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: -20 TO 20 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 68 MM; OPERATED: MR-25-MARINE; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030; EPDM(3X); APPLICATION: RECLAIM WATER ISOLATING; SUPPL P/N: 10DN250.T4.PN10.3G6K3XXA-MR-25-MARINE; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0656137	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 300 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: -20 TO 20 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 78 MM; OPERATED: MR-25-MARINE; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030; EPDM(3X); APPLICATION: WFGD; SUPPL P/N: 10DN300.T4.PN10.3G6K3XXA-MR-50-MARINE; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0656138	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 300 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -20 TO 20 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 78 MM; OPERATED: MR-50-MARINE; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030 WITH HARD RUBBER COATING (3P); APPLICATION: FILTER FEED TANK DRAIN; SUPPL P/N: 16DN300.T4.PN10.3G6K6XA-MR-50-MARINE; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0656139	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 300 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -10 TO 20 DEG C; CONNECTION: FLANGE PN16; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 78 MM; OPERATED: MR-50-MARINE; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SS 1.4408 (6K); APPLICATION: FGD WATER SYSTEM; SUPPL P/N: SORIA16DN300.T4.PN16.3G6K6XA-MR-50-MARINE; WITH RAISED FACE-T4; LINER-EPDM XA (XA)

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0656141	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 400 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: -10 TO 20 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 102 MM; OPERATED: MR-100-MARINE; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030; EBONITE COATED (3P); APPLICATION: FGD WATER SYSTEM; SUPPL P/N: 10DN400.T4.PN10.3G6K3PXA-MR-100-MARINE; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0656142	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 100 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: -20 TO 120 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 52 MM; OPERATED: MR-25-MARINE; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030; EPDM(3X); APPLICATION: AREA SUMP VALVES; SUPPL P/N: 10DN100.T4.PN10.3G6K3XXA-MR-25-MARINE; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA
0659302	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 350 MM; DESIGN RATING: PN10; TEMPERATURE RATING: 50-80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: ASTM A536 GR.65-45-12; FACE TO FACE LENGTH: 78 MM; OPERATED: ACTUATOR SGM12.1; TRIM: DISC: ASTM A536 GR.65-45-12 + EPDM; LINER: EPDM; SHAFTS: UNS S17400(17-4-PH); BUSHING: AL/BRNZ; FLANGE: ASTM 516 GR.70; SOFTGOODS: O-RING NBR; APPLICATION: RECLAIMING WATER SYSTEM FGD COMMON; UNITISED PLANT; SPECIAL FEATURES: CENTERED RUBBER SEATED; DRAWING NO: 100009-02112247380000-ICASS-0001-022/PN10 REV 0; FLANGE HOLE: 16 THREADED THROUGH; DIA: M20; DS SERIES
0659303	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 250 MM; DESIGN RATING: PN10; TEMPERATURE RATING: 50-80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: ASTM A536 GR.65-45-12; FACE TO FACE LENGTH: 69 MM; OPERATED: ACTUATOR SGM10.1; TRIM: DISC: ASTM A536 GR.65-45-12 + EPDM; LINER: EPDM; SHAFTS: UNS S17400(17-4-PH); PLUGS: CS ZINC COATED; SOFTGOODS: O-RING NBR; APPLICATION: REAGENT SYSTEM FGD COMMON; UNITISED PLANT; SPECIAL FEATURES: CENTERED RUBBER SEATED VALVES; DRAWING NO: 100009-02112247380000-ICASS-0001-023/PN10 REV 0

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0659308	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 150 IN; DESIGN RATING: PN16; TEMPERATURE RATING: 50-80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: ASTM A536 GR.65-45-12; FACE TO FACE LENGTH: 57 MM; OPERATED: ACTUATOR SGM05.1; TRIM: DISC: ASTM A536 GR.65-45-12 + EPDM; LINER: EPDM; SHAFTS: ASTM A182 GR.F6A; PLUGS: CS; SOFTGOODS: O-RING NBR; APPLICATION: FGD COMMON; UNITISED PLANT; SPECIAL FEATURES: CENTERED RUBBER SEATED; DRAWING NO: 100009-02112247380000-ICASS-0001-024/PN16 REV 0; FLANGE HOLE: 8 THREADED THROUGH; DIA: M20; DS SERIES
0659309	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 150 MM; DESIGN RATING: PN16; TEMPERATURE RATING: 50-80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: ASTM A536 GR.65-45-12; FACE TO FACE LENGTH: 57 MM; OPERATED: ACTUATOR SGM05.1; TRIM: DISC: UNS N26022; LINER: EPDM; SHAFTS: UNS N10276; PLUGS: CS; BUSHING: AL/BRNZ; SOFTGOODS: O-RING NBR; APPLICATION: FGD COMMON; UNITISED PLANT; SPECIAL FEATURES: CENTERED RUBBER SEATED; DRAWING NO: 100009-02112247380000-ICASS-0001-025/PN16/8IN REV 0; FLANGE HOLE: 8 THREADED THROUGH; DIA: M20; DS SERIES
0659310	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 300 MM; DESIGN RATING: PN10; TEMPERATURE RATING: 50-80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: ASTM A536 GR.65-45-12; FACE TO FACE LENGTH: 79 MM; OPERATED: ACTUATOR SGM12.1; TRIM: DISC: ASTM A536 GR.65-45-12 + EPDM; LINER: EPDM; SHAFTS: UNS S17400(17-4-PH); PLUGS: CS ZINC COATED; SOFTGOODS: O-RING NBR; APPLICATION: FILTER FEED SYSTEM FGD COMMON; UNITISED PLANT; SPECIAL FEATURES: CENTERED RUBBER SEATED; DRAWING NO: 100009-02112247380000- ICASS-0001-023/PN10/12IN REV 0; FLANGE HOLE: 12 THREADED THROUGH; DIA: M20; DS SERIES
0659311	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 100 MM; DESIGN RATING: PN16; TEMPERATURE RATING: 50-80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: ASTM A536 GR.65-45-12; FACE TO FACE LENGTH: 53 MM; OPERATED: ACTUATOR SGM05.1; TRIM: DISC: ASTM A536 GR.65-45-12 + EPDM; LINER: EPDM; SHAFTS: ASTM A182 GR.F6A; PLUGS: CS; SOFTGOODS: O-RING NBR; APPLICATION: RECLAIMING WATER SYSTEM FGD COMMON; UNITISED PLANT; SPECIAL FEATURES: CENTERED RUBBER SEATED; DRAWING NO: 100009-02112247380000-ICASS-0001- 024/PN16/4IN REV 0; FLANGE HOLE: 8 THREADED THROUGH; DIA: M20; DS SERIES

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0659312	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 400 MM; DESIGN RATING: PN10; TEMPERATURE RATING: 50-80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: ASTM A536 GR.65-45-12; FACE TO FACE LENGTH: 102 MM; OPERATED: ACTUATOR SGM12.1; TRIM: DISC: ASTM A536 GR.65-45-12 + EPDM; LINER: EPDM; SHAFTS: ASTM A182 GR.F6A; GASKET: ARAMIDIC FIBER+ FIBER; BUSHING: AL/BRNZ; SOFTGOODS: O-RING NBR; APPLICATION: RECLAIMING SYSTEM FGD COMMON; UNITISED PLANT; SPECIAL FEATURES: CENTERED RUBBER SEATED; DRAWING NO: 100009-02112247380000-ICASS-0001-026/PN10 REV 0; FLANGE HOLE: 8 THREADED THROUGH; DIA: M24; DS SERIES
0659313	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 80 MM; DESIGN RATING: PN16; TEMPERATURE RATING: 50-80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: ASTM A536 GR.65-45-12; FACE TO FACE LENGTH: 46 MM; OPERATED: ACTUATOR SGM05.1; TRIM: DISC: UNS N26022; LINER: EPDM; SHAFTS: UNS N10276; O-RING: NBR; BUSHING: AL/BRNZ; SOFTGOODS: O-RING NBR; APPLICATION: REAGENT SYSTEM TO ABSORBER; SPECIAL FEATURES: CENTERED RUBBER SEATED; DRAWING NO: 100009-02112247380000-ICASS-0001-025/PN16/3IN REV 0; FLANGE HOLE: 8 THREADED THROUGH; DIA: M16; DS SERIES
0659315	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 200 MM; DESIGN RATING: PN10; TEMPERATURE RATING: 50-80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: ASTM A536 GR.65-45-12; FACE TO FACE LENGTH: 60 MM; OPERATED: ACTUATOR SGM07.1; TRIM: ASTM A536 GR.65-45-12 + EPDM; LINER: EPDM; SHAFTS: ASTM A182 GR.F6A; PLUGS: CS; SOFTGOODS: O-RING NBR; APPLICATION: ABSORBER BLEED SYSTEM; SPECIAL FEATURES: CENTERED RUBBER SEATED; DRAWING NO: 100009-02112247380000-ICASS-0001-024/PN10 REV 0
0659316	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 50 MM; DESIGN RATING: PN16; TEMPERATURE RATING: 50-80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: A536 GR.65-45-12; FACE TO FACE LENGTH: 44 MM; OPERATED: ACTUATOR SGM05.1; TRIM: DISC: ASTM A536 GR.65-45-12 + EPDM; LINER: EPDM; SHAFTS: ASTM A182 GR.F6A; BUSHING: AL/BRNZ; SOFTGOODS: O-RING NBR; APPLICATION: REAGENT TO ABSORBER; SPECIAL FEATURES: CENTERED RUBBER SEATED; DRAWING NO: 100009-02112247380000-ICASS-0001-024/PN16/2IN REV 0

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0659317	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 8 IN; DESIGN RATING: PN10; TEMPERATURE RATING: 50-80 DEG C; CONNECTION: FLANGE; BODY MATERIAL: ASTM A536 GR.65-45-12; FACE TO FACE LENGTH: 60 MM; OPERATED: ACTUATOR SGM07.1; TRIM: DISC: UNS N26022; LINER: EPDM; SHAFTS: UNS N10276; PLUGS: CS; BUSHING: AL/BRNZ; SOFTGOODS: O-RING NBR; APPLICATION: ABSORBER BLEED SYSTEM; SPECIAL FEATURES: CENTERED RUBBER SEATED; DRAWING NO: 100009-02112247380000-ICASS-0001-024/PN10/200MM REV 0
0659838	VALVE, BUTTERFLY: TYPE: RESILIENT SEATED; VALVE SIZE: DN100 MM; DESIGN RATING: 1000 KPA G; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: DUCTILE IRON; FACE TO FACE LENGTH: 52 MM; OPERATED: MANUAL; TRIM: DISC: SS 316 (PASSIVATING STL); STEM: SS 316; STEM BUSHING: ACETAL; SPLIT RING: BRASS; THRUST WASHER: BRASS; RETAINING RING: ASTM SS304; SOFTGOODS: STEM SEAL: BUNA-N; APPLICATION: WTP; STYLE: WAFER; DRAWING NO: S03-0400-2-S01-136712-10 REV 0; SUPPL P/N: S03-31G; BRAY ARMATUREN AND ANTRRIEBE EUROPA
0669959	VALVE, BUTTERFLY: TYPE: ISOLATING; VALVE SIZE: 50 MM; DESIGN RATING: 10 BAR; TEMPERATURE RATING: 90 DEG C; CONNECTION: FLANGE; BODY MATERIAL: SS 316; FACE TO FACE LENGTH: 300 MM; OPERATED: MANUAL; TRIM: LOWER STEM; TAPPER PIN; UPPER STEM: SS 316; SOFTGOODS: O RING: NEOPRENE RUBBER; BUSH: PTFE; APPLICATION: CHILLER UNIT COOLING WATER ISOLATION VALVE; MODEL NO: SEPL.AV.SE-50MBFV
0671690	VALVE, BUTTERFLY: TYPE: SWING; VALVE SIZE: DN350; DESIGN RATING: PN10; TEMPERATURE RATING: 545 DEG C; CONNECTION: FLANGE; BODY MATERIAL: GGG-40.3; FACE TO FACE LENGTH: 200 MM; OPERATED: HAND; APPLICATION: STOP VALVE OUTLET FUEL OIL STORAGE TANK 1; 0 0EGB30 AA501; SUPPL P/N: 4B73660BFD3F21A3E0401EAC4EFA61EA; INSPECTION CERTIFICATE ACC. EN 10204 - 3.1; LOCATION OF ERECTION: OUTDOOR NOT WEATHER PROTECTED
0674743	VALVE, BUTTERFLY: TYPE: CONTROL; VALVE SIZE: DN100; DESIGN RATING: PN16; TEMPERATURE RATING: 150 DEG C; CONNECTION: FLANGE ANSI 150/PN16; BODY MATERIAL: CS GG25 A126B; FACE TO FACE LENGTH: 52 MM; OPERATED: MANUAL; TRIM: DISC: SS316; SEAT: EPDM; SOFTGOODS: O RING: EPDM; APPLICATION: PJFF FLUIDIZING; SPECIFICATION: BS4504; SPECIAL FEATURES: INSPECTION AND TESTING: API 598; CORROSION PROTECTED; LIGHT BLUE COUPLING ACTUATOR AND SPACER (35X82MM)

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0674744	VALVE, BUTTERFLY: TYPE: CONTROL; VALVE SIZE: DN100; DESIGN RATING: PN16; TEMPERATURE RATING: 150 DEG C; CONNECTION: FLANGE ANSI 150/PN16; BODY MATERIAL: CS GG25 A126B; FACE TO FACE LENGTH: 52 MM; OPERATED: ACTUATOR; TRIM: DISC: SS316; SEAT: EPDM; SOFTGOODS: O RING: EPDM; APPLICATION: PJFF FLUIDIZING; SPECIFICATION: BS4504; SPECIAL FEATURES: INSPECTION AND TESTING: API 598; CORROSION PROTECTED; LIGHT BLUE WITH HANDLE ACTUATED
0674745	VALVE, BUTTERFLY: TYPE: WATER; VALVE SIZE: DN 50; DESIGN RATING: PN16; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE ANSI 150/PN16; BODY MATERIAL: CS GG25 A126B; FACE TO FACE LENGTH: 42 MM; OPERATED: ACTUATOR; TRIM: DISC: SS ASTM A351 CF8M; STEM: SS 416; BUSHING: PTFE; SEAT: EPDM REMOVABLE LINER; SOFTGOODS: O RING: EPDM; APPLICATION: PJFF FLUIDIZING; SPECIFICATION: CE0038; SPECIAL FEATURES: INSPECTION AND TESTING: API 598
0674746	VALVE, BUTTERFLY: TYPE: CONTROL; VALVE SIZE: 80 MM; DESIGN RATING: PN16; TEMPERATURE RATING: 150 DEG C; CONNECTION: FLANGE ANSI 150/PN16; BODY MATERIAL: CS GG25 A126B; FACE TO FACE LENGTH: 45.2 MM; OPERATED: ACTUATOR; TRIM: DISC: SS 316; SEAT: EPDM; SOFTGOODS: O RING: EPDM; APPLICATION: PJFF FLUIDIZING; SPECIFICATION: BS4504; SPECIAL FEATURES: INSPECTION AND TESTING: API 598; CORROSION PROTECTED; LIGHT BLUE HANDLE ACTUATED
0674747	VALVE, BUTTERFLY: TYPE: CONTROL; VALVE SIZE: 80 MM; DESIGN RATING: PN16; TEMPERATURE RATING: 150 DEG C; CONNECTION: FLANGE ANSI 150/PN16; BODY MATERIAL: CS GG25 A126B; FACE TO FACE LENGTH: 45.2 MM; OPERATED: MANUAL; TRIM: DISC: SS 316; SEAT: EPDM; SOFTGOODS: O RING: EPDM; APPLICATION: PJFF FLUIDIZING; SPECIFICATION: BS4504; SPECIAL FEATURES: INSPECTION AND TESTING: API 598
0674748	VALVE, BUTTERFLY: TYPE: WATER; VALVE SIZE: DN 100; DESIGN RATING: PN16; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE ANSI 150/PN16; BODY MATERIAL: CS GG25 A126B; FACE TO FACE LENGTH: 45.2 MM; OPERATED: ACTUATOR; TRIM: DISC: SS ASTM A351 CF8M; STEM: SS 416; BUSHING: PTFE; SEAT: EPDM REMOVABLE LINER; SOFTGOODS: O RING: EPDM; APPLICATION: PJFF FLUIDIZING; SPECIFICATION: CE0038; SPECIAL FEATURES: INSPECTION AND TESTING: API 598

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0695157	VALVE, BUTTERFLY: TYPE: DRYER; VALVE SIZE: 4 IN; DESIGN RATING: 285 PSIG; TEMPERATURE RATING: 100 DEG F; CONNECTION: FLANGED CLASS 150; BODY MATERIAL: WCB; FACE TO FACE LENGTH: 2.03 IN; OPERATED: PNEUMATIC ACTUATOR; TRIM: DISC: CF8M; STEM: 17-4PH; SOFTGOODS: SEAT: RPTFE; SEAL: PTFE; APPLICATION: COMPRESSED AIR DRYER; SPECIFICATION: ASME B16.34; SUPPL P/N: 23815871
0695158	VALVE, BUTTERFLY: TYPE: DRYER; VALVE SIZE: 6 IN; DESIGN RATING: 285 PSIG; TEMPERATURE RATING: 100 DEG F; CONNECTION: FLANGED CLASS 150; BODY MATERIAL: WCB; FACE TO FACE LENGTH: 2.23 IN; OPERATED: PNEUMATIC ACTUATOR; TRIM: DISC: CF8M; STEM: 17-4PH; SOFTGOODS: SEAT: RPTFE; SEAL: PTFE; APPLICATION: COMPRESSED AIR DRYER; SPECIFICATION: ASME B16.34; REFERENCE NO: 400600-11001466; C13046946; SUPPL P/N: 38059440
0696636	VALVE, BUTTERFLY: TYPE: CENTERED DISC; VALVE SIZE: 6 IN; DESIGN RATING: PN40; TEMPERATURE RATING: 100 DEG C; CONNECTION: BW; BODY MATERIAL: 1.4571; FACE TO FACE LENGTH: 400 MM; OPERATED: MANUAL; TRIM: STL; SOFTGOODS: GASKETS; APPLICATION: INSTRUMENT VALVES; 4 0LCE10 AA301; SPECIFICATION: AV-15-63-SE-HR-G-XX-00; SUPPL P/N: 6343EEA4FEA8559FE0401EAC37FA7116
0696637	VALVE, BUTTERFLY: TYPE: CENTERED DISC; VALVE SIZE: 4 IN; DESIGN RATING: PN45; TEMPERATURE RATING: 100 DEG C; CONNECTION: BW; BODY MATERIAL: 1.4571; FACE TO FACE LENGTH: 389 MM; OPERATED: MANUAL; TRIM: STL; SOFTGOODS: GASKETS; APPLICATION: INSTRUMENT VALVES; 4 0LCE10 AA302; SPECIFICATION: AV-15-63-SE-HR-G-XX-00; SUPPL P/N: 6343EEA4FEA9559FE0401EAC37FA7116
0696638	VALVE, BUTTERFLY: TYPE: CENTERED DISC; VALVE SIZE: 3 IN; DESIGN RATING: PN35; TEMPERATURE RATING: 0-100 DEG C; CONNECTION: BW; BODY MATERIAL: 1.4571; FACE TO FACE LENGTH: 400 MM; OPERATED: MANUAL; TRIM: STL; SOFTGOODS: GASKETS; APPLICATION: DRAIN VALVE 1 TURBINE HOUSE UNIT 4; 4 0LCE10 AA401; SPECIFICATION: AV-25-63-SE-HR-G-XX-00; SUPPL P/N: 63906F3C7C3F09C3E0401EAC37FA0A05

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0696639	VALVE, BUTTERFLY: TYPE: CENTERED DISC; VALVE SIZE: 2 IN; DESIGN RATING: PN16; TEMPERATURE RATING: 0-100 DEG C; CONNECTION: BW; BODY MATERIAL: 1.4571; FACE TO FACE LENGTH: 300 MM; OPERATED: MANUAL; TRIM: STL; SOFTGOODS: GASKETS; APPLICATION: DRAIN VALVE 2 TURBINE HOUSE UNIT 4; 4 0LCE10 AA402; SPECIFICATION: AV-25-63-SE-HR-G-XX-00; SUPPL P/N: 63906F3C7C4009C3E0401EAC37FA0A05
0696640	VALVE, BUTTERFLY: TYPE: CENTERED DISC; VALVE SIZE: 5 IN; DESIGN RATING: PN16; TEMPERATURE RATING: 0-100 DEG C; CONNECTION: BW; BODY MATERIAL: 1.4571; FACE TO FACE LENGTH: 300 MM; OPERATED: MANUAL; TRIM: STL; SOFTGOODS: GASKETS; APPLICATION: STOP VALVE 1 TURBINE HOUSE UNIT 4; 4 0LCE10 AA501; SPECIFICATION: AV-50-63-SE-HR-G-XX-00; SUPPL P/N: 6343EEA4FEA6559FE0401EAC37FA7116
0696641	VALVE, BUTTERFLY: TYPE: CENTERED DISC; VALVE SIZE: 1 IN; DESIGN RATING: PN10; TEMPERATURE RATING: 0-50 DEG C; CONNECTION: BW; BODY MATERIAL: 1.4571; FACE TO FACE LENGTH: 301 MM; OPERATED: MANUAL; TRIM: STL; SOFTGOODS: GASKETS; APPLICATION: STOP VALVE 2 TURBINE HOUSE UNIT 4; 4 0LCE10 AA502; SPECIFICATION: AV-50-63-SE-HR-G-XX-00; SUPPL P/N: 6343EEA4FEA7559FE0401EAC37FA7116
0697035	VALVE, BUTTERFLY: TYPE: SHUT-OFF; VALVE SIZE: DN60; DESIGN RATING: 50 BAR; TEMPERATURE RATING: 123 DEG C; CONNECTION: BW; BODY MATERIAL: 1.4571; FACE TO FACE LENGTH: 328 MM; OPERATED: MANUAL; TRIM: MS; SOFTGOODS: GASKET; APPLICATION: STOP VALVE 2 TURBINE HOUSE UNIT 1; 6 0LCE10 AA502; GRADE: AA; SPECIFICATION: AV-50-63-SE-HR-G-XX-00; SUPPL P/N: 6343EEA4FE8F559FE0401EAC37FA7116
0697036	VALVE, BUTTERFLY: TYPE: SHUT-OFF; VALVE SIZE: DN62; DESIGN RATING: 50 BAR G; TEMPERATURE RATING: 135 DEG C; CONNECTION: BW; BODY MATERIAL: 1.4571; FACE TO FACE LENGTH: 300 MM; OPERATED: MANUAL; TRIM: MS; SOFTGOODS: GASKET; APPLICATION: STOP VALVE 1 TURBINE HOUSE UNIT 1; 6 0LCE10 AA501; GRADE: AA; SPECIFICATION: AV-50-63-SE-HR-G-XX-00; SUPPL P/N: 6343EEA4FE8E559FE0401EAC37FA7116
0697037	VALVE, BUTTERFLY: TYPE: SHUT-OFF; VALVE SIZE: DN70; DESIGN RATING: 70 BAR G; TEMPERATURE RATING: 432 DEG C; CONNECTION: BW; BODY MATERIAL: GP240GH; FACE TO FACE LENGTH: 300 MM; OPERATED: MANUAL; TRIM: MS; SOFTGOODS: GASKET; APPLICATION: STOP VALVE WARM UP V 2; 6 0LCE22 AA201; GRADE: AA; SPECIFICATION: AV-50-63-SE-HR-G-XX-00; SUPPL P/N: 6343EEA4FE8B559FE0401EAC37FA7116

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0697038	VALVE, BUTTERFLY: TYPE: SHUT-OFF; VALVE SIZE: DN25; DESIGN RATING: 7 MPA; TEMPERATURE RATING: 230 DEG C; CONNECTION: FLANGE; BODY MATERIAL: G-X7CRNIMONB18 10; FACE TO FACE LENGTH: 300 MM; OPERATED: ACTUATOR (WITH SPRINGS); TRIM: MS; SOFTGOODS: GASKET; APPLICATION: STOP VALVE WARM UP V 1; 6 0LCE21 AA201; GRADE: AA; SPECIFICATION: AV-50-63-SE-HR-G-XX-00; SUPPL P/N: 6343EEA4FE8D559FE0401EAC37FA7116
0697039	VALVE, BUTTERFLY: TYPE: SHUT-OFF; VALVE SIZE: DN85; DESIGN RATING: 40 BAR G; TEMPERATURE RATING: 523 DEG C; CONNECTION: BW; BODY MATERIAL: STL; FACE TO FACE LENGTH: 250 MM; OPERATED: ACTUATOR (WITH SPRINGS); TRIM: STL; SOFTGOODS: GASKET; APPLICATION: STOP VALVE WARM UP V 2; 5 0LCE22 AA201; GRADE: AA; SUPPL P/N: 6343EEA4FEAB559FE0401EAC37FA7116

Non-negotiable tender Returnable

The following returnable are non-negotiable:

- Signed Annexure B
- OHS plan / OHS manual
- Baseline SHE risk assessment
- Valid letter of good standing or equivalent
- SHE policy (must be signed)
- Signed 37 (2) agreement

3.2 LEGAL COMPLIANCE

3.2.1 Section 37(2) (Legal) Agreement

A section 37(2) agreement must be signed between Eskom and the principal contractor at the time of awarding the contract. The principal contractor must ensure that a section 37(2) agreement is compiled between the principal contractor and all their appointed contractors for the contract.

The original copy of the section 37(2) agreement must be retained by the contractor and a copy retained by the responsible manager.

A copy all the agreements must form part of the respective contractor's SHE files.

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3.2.2 Hazardous Work by Children (Child Labour)

The constitution of the Republic of South Africa, in the “Bill of Rights” is clear on the rights of children, especially when it comes to:

1. being protected from exploitative labour practices.
2. not to be required or permitted to perform work or provide services that
 - i. are inappropriate for a person of that child’s age; or
 - ii. place at risk the child’s well-being, education, physical or mental health or spiritual, moral or social development.

and the Basic Conditions of Employment Act, Chapter six Section 43 “Prohibition of employment of children”.

Before resorting to the use of child labour, due consideration must be given to the rights of the child in terms of the constitution. Where work is being performed which is not prohibited in terms of the constitution, then such work must be conducted in terms of the OHS Act “Regulations on Hazardous Work by Children in South Africa” with emphasis on paragraph 2 Purpose and Interpretation. Eskom does not condone the use of child labour and therefore all effort must be exercised, and child labour should not be used.

3.2.3 OHS Act

The principal contractor and appointed contractors shall have an up-to-date copy of the OHS Act and regulations which will be available to all employees.

3.2.4 Legislative Compliance

All contractors will comply with all the legislation pertaining to this contract being:

- The Constitution of the Republic of South Africa (particularly Section 24 of the Bill of Rights).
- Occupational Health and Safety Act 1993 (Act 85 of 1993) and its Regulations.
- Compensation for Occupational Injuries and Diseases Act.

3.3 Kusile Power Station requirements

All contractors shall, before commencement of the charter ensure that all their employees are familiar with the relevant Eskom SHE documentation that is applicable to supply and delivery services.

- The contractor must submit a SHE Plan in line with the scope of work
- Company own organogram
- Relevant legal appointments
- Inspection reports/records of the vehicle used to transport goods
- Driver competencies to operate the vehicle
- Methodology/work instruction for off-loading goods

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- Route risk assessment
- Where the off-loading is done by the goods operator a task risk assessment must be conducted and authorised by the end user/receiver of the goods
- Baseline risk assessment addressing all associated activities as per issued scope of work
- Valid medical certificates of fitness
- Valid letter of good standing
- All drivers must be competent risk assessors
- The contractor to provide a list of drivers to do deliveries
- All drivers must have First aid level 1
- Proof of company own induction
- Proof that vehicles meet legal requirements

3.3.1 Appointment of a Contractor

The appointed contractor will be appointed by Eskom Kusile Power Station on the awarding of the contract and will be responsible and accountable for all legislative and Eskom requirements for the duration of the contract.

3.3.2 Appointment of sub-contractors

The appointed contractor may appoint sub-contractors to assist in the contract. All appointments shall be done in writing and will form part of the SHE plans that is required to be submitted to Eskom. Adequate training and instruction must be given to the appointees and the principal contractor must ensure that all the appointed contractors understand their roles and responsibilities.

Note: Copies of contractor appointments must be kept in the respective SHE files.

3.3.3 SHE Policy

A SHE policy is a statement of intent and a commitment by the organisation's CE and senior management in relation to the relevant SHE roles and responsibilities, the achievement of their strategic objectives, values of integrity, customer satisfaction, excellence, and innovation.

The principal contractor and all appointed contractors, if already not in place, will be required to compile an organisational SHE policy in line with their SHE responsibilities. The policy must be signed by the organisation's CE or the appointed assistant to the CE OHS Act Section 16(2). The policy must be displayed in a prominent place within the workplace. A copy of the policy must be filed in all the contract SHE files and as an annexure the SHE Plans

3.3.4 COID

The principal contractor and all his/her appointed contractors shall be registered with an appropriate employment compensation commissioner and have available a valid letter of good

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standing (LoGS) from such commissioner. The obligation lies with the contractors to ensure that the LoGS remains valid throughout the contract period. A copy of the LoGS must be filed in the entire contract SHE files and as an annexure the SHE Plans.

3.4 PERSONNEL HEALTH / HYGIENE FACILITIES

N/A

3.4.1 Ablution facilities

N/A

3.4.2 Drinking Water

n/a

3.4.3 Changing areas and Lockers

N/A

3.4.4 Camp / Office Welfare

N.A

3.5 FOOD HANDLING HYGIENE

N/A

3.6 OCCUPATIONAL HEALTH, HYGIENE AND REHABILITATION,

All contractors are required to develop an Occupational Health, Hygiene and Rehabilitation program. The program is intended to ensure that the risks to health are identified and controlled.

3.6.1 Medicals

Note: Eskom will only accept medical surveillances conducted by an Occupational Health Practitioner who holds a qualification in occupational health.

1. Principle contractors must ensure that their and their appointed contractors have a medical surveillance program whereby their employees under go entry, periodic and exit medical fitness examinations.
2. For the appropriate medical examinations to be conducted, each employee must have a person job specification (profile), which must indicate the description of work, list of hazards and potential occupational exposure limits, physical hazards and required physical attributes.

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3. For employees working on the contract, medical fitness certificates shall be renewed annually for employees who are not office bound including drivers and once every 3 years for employees that are office bound. This shall be maintained until completion of the contract.
4. The Principal Contractor must ensure that his / her employees and sub-contractor employees have undergone pre-entry medical examination before starting work on the contract, should it be for longer than three (3) days.
5. The principal contractor shall provide a documented process for managing those employees who are issued with a conditional certificate of fitness.

3.6.2 Health and wellness HIV / Aids

Contractors shall submit details of their Employee Health and Wellness Programme as part of their Health and Safety Plan which should include awareness training, support for contracted illness and sharing knowledge with members of the public in the immediate work environment

3.7 APPOINTMENTS

For the duration of the contract, the principal contractor and all appointed contractors shall appoint competent employees who will meet the requirements of the OHS Act. Where appointments are made, contractors shall ensure that the appointees have been suitably trained and or informed of their responsibilities before getting them to accept such appointment. The relevant statutory appointments shall be made in accordance with the requirements of the OHS Act which includes the requirement of a competent person being appointed in the relevant roles. The statutory appointments should include but not limited to: Fire Fighter and Evacuation warden, First Aider, 16(2) appointments.

3.8 ROLES AND RESPONSIBILITIES

All contractors are required to list employee's roles and responsibilities pertaining to the contract.

3.9 RISK ASSESSMENTS

It is a legal requirement in terms of Section 8 (2)(d) of the OHS Act for an employer to carry out risk assessments to establish what hazards to the health and safety of persons are attached to any work which is performed, any article or substance which is, handled, stored, transported. A risk assessment is defined as an identification of the hazards present in an organisation and an estimate of the extent of the risks involved, considering whatever precautions are already being taken. It is essentially a three-stage process:

- identification of all hazards.
- evaluation of the risks.
- measures to control the risks.

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Risk assessments are required to be maintained. This means that significant changes to a process or activity, or any new process or activity should be subjected to a risk assessment and that if new hazards come to light during the work process, then these should also be subjected to risk assessments. Risk assessments for long term processes should be periodically reviewed and updated. Method statements or written safe work procedures are an effective method as information and record of the way jobs / tasks must be performed. Prior to start of work, risk assessments on every job / task are ideal to allow managers and employees to assess any inherent risks that could have been overlooked during the initial risk assessment or any changes that might have occurred in a period of absence. In particular, if a job / task is extended over a day or halted due to inclement weather.

3.10 INCIDENT INVESTIGATION

All incidents shall be investigated in terms of OHS Act General Administrative Regulations 8 and 9, using Eskom Procedure 32-95 as a reference, and where injuries as contemplated in sections 24 and 25 have been sustained, be reported to the Department of Labour.

Contractors shall use the standard General Administrative Regulation Annexure 1 "Recording of an Incident" form for all incident investigation reports. The objective of incident investigation, not only being a legal requirement, is to establish why and how the incident occurred, but to find out the real causes of the incident and to decide on precautionary measures that are required to address the causes to prevent any further recurrences of the same or similar incidents.

3.11 EMERGENCY MANAGEMENT

1. The art of emergency preparedness and response is to minimise the effects of any emergency and to restore normal activities as soon as practical. The supplier must develop their own emergency response in their work premises. The Eskom employees attending training must be made aware of the emergency process and the assembly points. Where any office and or site is located within any Local Authorities area, then the plans must include their involvement. Emergency preparedness

Periodic emergency drills must be undertaken to test the effectiveness of the plan. This must be recorded and provided on request.


3.11.1 Non-Conformance and Compliance

1. Any non-compliance to any health and safety requirement in this SHE specification is subject to discipline in terms of the Eskom Procurement and Supply Management Procedure.
2. Principal contractors are required to implement a non-conformance procedure (if not already in place) for issuing to contractors for transgressions. The procedure can include "quality" related non-conformance issues. Similarly, appointed contractors must implement a non-conformance procedure.
3. The procedure for the issuing and closing off non-conformance reports shall be strictly adhered to.

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4. Contract management must close out non-conformances issued, in not doing so, will not ensure that any recommendations made have been carried out and or implemented.
5. Where non-conformances are issued by Eskom, then one of the close-out steps of the procedure will be for the offender to be called on by the contractor responsible manager to explain the non-conformance issued and what they intend doing to prevent a recurrence of the non-conformance.
6. Contractor failure to provide adequate PPE to their employees for the tasks being performed and/or to visitors and failure to enforce the wearing of such PPE will be viewed as a transgression of the legislative and Eskom requirements.

4. AUTHORIZATION

Nil

5. REVISIONS

Date	Rev.	Compiler	Remarks
March 2022	1	V Dlamini T Tsatsi	This provides the initial SHE specification requirements that must be met by the relevant contractors who have been awarded a contract for the work to be performed for Eskom.

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