



Strategy

Engineering

Title: **Technical Strategy:  
Refurbishment of Boiler  
and Turbine Isolating  
valves during outages at  
Kriel Power Station.**

Unique Identifier: **559-254486345**

Alternative Reference Number: **N/A**

Area of Applicability: **Engineering**

Documentation Type: **Strategy**

Revision: **1**

Total Pages: **14**

Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED  
DISCLOSURE**

---

Date: 2025/06/05

.....

Date: 13/06/2025

.....

Date:

2025/06/18

.....

## CONTENTS

	Page
<b>1. INTRODUCTION.....</b>	<b>3</b>
1.1 SCOPE .....	3
1.1.1 Items to be supplied and refurbished .....	5
1.2 NORMATIVE/INFORMATIVE REFERENCES.....	13
1.2.1 Normative.....	13
1.2.2 Informative .....	13
1.3 DEFINITIONS .....	13
1.4 ABBREVIATIONS .....	13
<b>2. AUTHORISATION .....</b>	<b>14</b>
<b>3. REVISIONS.....</b>	<b>14</b>
<b>4. DEVELOPMENT TEAM.....</b>	<b>14</b>
<b>5. ACKNOWLEDGEMENTS.....</b>	<b>14</b>

### ***Table of Content***

Table 1: Boiler Valve Listing.....	5
Table 2: Condensate and Auxiliary valves .....	8
Table 3: HP HEATER VALVES.....	9
Table 4: LP HEATER VALVES .....	10
Table 5: TURBINE CONDENSER VALVES .....	10

### **CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

## 1. INTRODUCTION

Kriel Power Station is situated approximately 10 kilometres from the town of Kriel in Mpumalanga. Access to the station is by road.

The purpose of this scope is to briefly outline the refurbishment (servicing) of the Boiler and Turbine valves at Kriel Power Station, on an as and when required basis. This will ensure quality and sustainable maintenance basis for all plant work required to provide optimal plant performance at the lowest cost possibly. These valves are required to be serviced on as when required basis during “Outages and Maintenance” and must be accompanied with the required servicing data packs or documents for technical data/ information, equipment dimensions and drawings and most important, as per the Eskom approved valve repair standard.

### 1.1 SCOPE

The primary instructions to the service provider includes but not limited to:

Repair, replacement, component re-instatement and general mechanical components/fittings refurbishment as stipulated on the sub instructions below:

- 1) The Service provider should develop and submit QCP for approval by the end user – System Engineer prior to commence of any activities.
- 2) Visual Inspection (internal and external valve body and components) to be carried out together with Eskom and contractor Quality Inspectors. *Take photos if necessary.* The inspection sheet is to be completed for each valve.
- 3) Valves to be inspected (NDT or Visual) must first be released by Eskom’s Quality Inspector. **NDT service provider will be the responsibility of Eskom.** This includes providing both NDT and Visual Inspection request and reports.
- 4) Spindle or Valve Stem to be inspected for scoring, pitting and erosion and surface crack tested (NDT) and conduct dimensional checks. Perform spindle run out test. Spindle to be repaired or replaced if defects are noted or the spindle is found to be deformed; the spindles are supplied through a sole source and also made stock items.
- 5) All gland retaining washers, studs and nuts to be removed and inspected. All washers, studs and nuts to be of same dimension with respect to the valve.
- 6) Gland stuffing boxes to be cleaned and inspected and conducts dimensional checks, Wall thickness analysis.
- 7) Worn press-in neck rings in stuffing boxes are to be replaced.
- 8) Ensure that the density of the required packing graphite rings is within the required rating or specification of the originally used packing and also the graphite rings are to be used on all valves (as per the OEM specification), and the material and specification defining certificates to be made available.
- 9) Valve bonnet retaining nuts and studs are to be removed and inspected for damage to threads, corrosion and stretching of studs. Replace damaged or out of specification nuts, washers and studs.
- 10) Studs holes to be inspected for thread damage and repaired as required. All nuts to be free and not seized on studs. When a valve is assembled, ensure that washers are in place (at least 3-4 the thread pitch is exposed on the studs when nuts are tightened).

### CONTROLLED DISCLOSURE

- 11) Special attention to be prioritised or given to gasket sealing areas. Gaskets are to be checked to conform to the recommended material with respect to temperature and pressure rating per valve.
- 12) Ensure that correct gasket dimensions by verifying with the specification and the contractor will be liable for the installation of lower rating gasket when higher rating gasket is required.
- 13) Proper or Gasket installation or torque procedure to be applied fitting the gasket, to ensure that there are no premature failures.
- 14) Valves fitted with the required pressure seals to be inspected for wear of retaining segments and segment location areas. Plug jacking screws to be inspected for thread damage and should not be seized.
- 15) All heads to be inspected for stretching, pitting or oversize. Replace retaining screws as required. Pressure seals to be replaced, ensuring correct size and density. Plug size and body size to be checked to ensure tolerances are correct to avoid extrusions of pressure seal. The material and specification defining certificates to be made available.
- 16) All open valves, pipes, to be closed by the contractor to avoid ingress of debris. Covers to be constructed as to prevent persons from removing them. Plastic will not be acceptable for this purpose
- 17) Mechanical artisans and Fitters to be available to carry out any necessary rework, and to assist with commissioning of valves with actuators
- 18) Magnetic particle testing or suitable NDE (e.g. UT or Replication (remnant life monitoring (Eskom Standard GST 36-702)) will be carried out on valves and may necessitate in situ repairs or replacing valve bodies and jet cages on all the valves to be services.
- 19) Due to loss of components on previous General Overhauls the contractor will be responsible for storage of all valves components. In the event of components being misplaced because of poor housekeeping or security, the contractor will be responsible to replace any items, at his own cost.
- 20) QCP showing all witness, inspection and hold points to be provided by the contractor with tender and approved by Eskom before any work commences.
- 21) Contractor to have his/her staff available during pressure test and unit commissioning to fix any defects that might arise during test since the valves are part of the valves examination or test plan.
- 22) The contractor shall provide a technical report of the inspection findings and repairs conducted on every valve. The report should as a minimum include the following:
  - The initial condition of the valve after stripping – report on debris, wear, and defects noted on the valves and associated components.
  - The repairs/replacements conducted to restore the valves mechanical integrity.
  - Measured dimensions vs. allowable tolerances.
  - List of recommended actions and/or spares for the next overhaul.
  - Photographs of all notable defects.

**CONTROLLED DISCLOSURE**

### 1.1.1 Items to be supplied and refurbished

**Table 1: Boiler Valve Listing**

Valve Description	Size (mm)	Drive Type	Valve Type
CRH Spraywater Main Isol valve	139.7	Motorized	Screw down control valve
CRH att 1.1 isol valve	50	Motorized	Parallel slide valve
CRH att 1.2 isol valve	50	Motorized	Parallel slide valve
CRH att 1.3 isol valve	50	Motorized	Parallel slide valve
CRH att 1.4 isol valve	50	Motorized	Parallel slide valve
CRH inlet bottom LH drain isol valve 1	50	Hand	Parallel slide valve
CRH inlet bottom LH drain isol valve 2	50	Hand	Parallel slide valve
CRH inlet bottom RH drain isol valve 3	50	Hand	Parallel slide valve
CRH inlet bottom RH drain isol valve 4	50	Hand	Parallel slide valve
CRH inlet top LH drain isol valve 1	50	Hand	Parallel slide valve
CRH inlet top LH drain isol valve 2	50	Hand	Parallel slide valve
CRH inlet top RH drain isol valve 3	50	Hand	Parallel slide valve
CRH inlet top RH drain isol valve 4	50	Hand	Parallel slide valve
HRH outlet bottom LH drain isol valve 1	50	Hand	Parallel slide valve
HRH outlet bottom LH drain isol valve 2	50	Hand	Parallel slide valve
HRH outlet bottom RH drain isol valve 3	50	Hand	Parallel slide valve
HRH outlet bottom RH drain isol valve 4	50	Hand	Parallel slide valve
HRH outlet top LH drain isol valve 1	50	Hand	Parallel slide valve
HRH outlet top LH drain isol valve 2	50	Hand	Parallel slide valve
HRH outlet top RH drain isol valve 3	50	Hand	Parallel slide valve
HRH outlet top RH drain isol valve 4	50	Hand	Parallel slide valve
SH att 2.1 to 2.4 spray water stop valves	50	Motorized	Parallel slide valve
SH att 3.1 to 3.4 spray water stop valves	50	Motorized	Parallel slide valve
SH Spraywater Main Isol valve	139.7	Motorized	Parallel slide valve
Blr circulating drain valve bottom	25	Hand wheel	Globe valve
Blr circulating drain valve top	25	Hand wheel	Globe valve
Evap screw drain valve LH bottom	42.4	Hand wheel	Globe valve
Evap screw drain valve LH top	42.4	Hand wheel	Globe valve
Evap screw drain valve RH bottom	42.4	Hand wheel	Globe valve
Evap screw drain valve RH top	42.4	Hand wheel	Globe valve
Boiler master drain stop valve	101.6	Hand wheel	Globe valve
Distribution header drain valve 1	63.5(50)	Hand wheel	Globe valve
Distribution header drain valve 2	63.5(50)	Hand wheel	Globe valve

**CONTROLLED DISCLOSURE**

Dividing wall drain valve front bottom	42.4(32)	Hand wheel	Globe valve
Dividing wall drain valve front top	42.4(32)	Hand wheel	Globe valve
Dividing wall drain valve rear bottom	42.4(32)	Hand wheel	Globe valve
Dividing wall drain valve rear top	42.4(32)	Hand wheel	Globe valve
Dividing wall (ATT 1 Outlet drain) LH bottom isol valve	42.4(32)	Hand wheel	Globe valve
Dividing wall (ATT 1 Outlet drain) LH top isol valve	42.4(32)	Hand wheel	Globe valve
Economiser LH bottom isol valve	32	Hand wheel	Globe valve
Economiser LH top isol valve	32	Hand wheel	Globe valve
SH 1.1 outlet drain A top isol valve	25	Hand wheel	Globe valve
SH 1.1 outlet drain A bottom isol valve	25	Hand wheel	Globe valve
SH 1.2 outlet drain B top isol valve	25	Hand wheel	Globe valve
SH 1.2 outlet drain A top isol valve	25	Hand wheel	Globe valve
SH 2.1 outlet drain A bottom isol valve	25	Hand wheel	Globe valve
SH 2.1 outlet drain A bottom isol valve	25	Hand wheel	Globe valve
SH 2.2 outlet drain B top isol valve	25	Hand wheel	Globe valve
SH 2.2 outlet drain B bottom isol valve	25	Hand wheel	Globe valve
SH 2.3 outlet drain C top isol valve	25	Hand wheel	Globe valve
SH 2.3 outlet drain C bottom isol valve	25	Hand wheel	Globe valve
SH 2.4 outlet drain D top isol valve	25	Hand wheel	Globe valve
SH 1.1 outlet drain D bottom isol valve	25	Hand wheel	Globe valve
SH 3.1 outlet drain A top isol valve	25	Hand wheel	Globe valve
SH 3.1 outlet drain A bottom isol valve	25	Hand wheel	Globe valve
SH 3.2 outlet drain B top isol valve	25	Hand wheel	Globe valve
SH 3.2 outlet drain B bottom isol valve	25	Hand wheel	Globe valve
SH 3.3 outlet drain C top isol valve	25	Hand wheel	Globe valve
SH 3.3 outlet drain C bottom isol valve	25	Hand wheel	Globe valve
SH 3.4 outlet drain D top isol valve	25	Hand wheel	Globe valve
SH 3.4 outlet drain D bottom isol valve	25	Hand wheel	Globe valve
SH Master drain valve	75	Hand wheel	Parallel slide valve
Reheat inlet vent LH bottom isol valve	20	Hand wheel	Globe
Reheat inlet vent LH top isol valve	20	Hand wheel	Globe
Reheat inlet vent RH bottom isol valve	20	Hand wheel	Globe
Reheat inlet vent RH top isol valve	20	Hand wheel	Globe
BLR R/H 1.1 Inl vent vlv	20	Hand wheel	Globe
BLR R/H 1.2 Inl vent vlv	20	Hand wheel	Globe

**CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

BLR R/H 1.3 Inl vent vlv	20	Hand wheel	Globe
BLR R/H 1.4 Inl vent vlv	20	Hand wheel	Globe
BLR R/H 2.1 steam Inl Press Isol vlv	20	Hand wheel	Globe
BLR R/H 2.2 steam Inl Press Isol vlv	20	Hand wheel	Globe
BLR R/H 2.3 steam Inl Press Isol vlv	20	Hand wheel	Globe
BLR R/H 2.4 steam Inl Press Isol vlv	20	Hand wheel	Globe
SH 1 inlet vent LH bottom isol valve	20	Hand wheel	Globe
SH 1 inlet vent LH top isol valve	20	Hand wheel	Globe
SH 1 inlet vent RH bottom isol valve	20	Hand wheel	Globe
SH 1 inlet vent RH top isol valve	20	Hand wheel	Globe
SH 2 inlet vent LH bottom isol valve	20	Hand wheel	Globe
SH 2 inlet vent LH top isol valve	20	Hand wheel	Globe
SH 2 inlet vent RH bottom isol valve	20	Hand wheel	Globe
SH 2 inlet vent RH top isol valve	20	Hand wheel	Globe
SH 3 inlet vent LH bottom isol valve	20	Hand wheel	Globe
SH 3 inlet vent LH top isol valve	20	Hand wheel	Globe
SH 3 inlet vent RH bottom isol valve	20	Hand wheel	Globe
SH 3 inlet vent RH top isol valve	20	Hand wheel	Globe
Sootblower main steam isol valve	32	Hand wheel	Parallel Slide valve
Sootblower main steam hand isolating valve	50	Hand wheel	Parallel Slide valve
Sootblower station safety valve	50	Hand wheel	Parallel slide valve
Sootblower main steam Control valve	32	Motorized	Parallel slide valve
Sootblower section 3 valve	65	Motorized	Parallel slide valve
Sootblower section 3 isolating valve	65/ 50	Hand wheel	Parallel slide valve
Sootblower section 4 valve	75	Motorized	Parallel slide valve
Sootblower section 4 isolating valve	75/50	Hand wheel	Parallel slide valve
SB manifold drain isolating valve	50	Hand wheel	Parallel slide valve
Coll vessel 33 % drain stop valve	200	Motorized	Parallel slide valve
Coll vessel 33 % drain bypass valve	20	Motorized	Globe v/v
Coll vessel 66% drain stop valve	200	Motorized	Parallel slide valve
Coll vessel 66 % drain bypass valve	20	Motorized	Globe v/v
Circ pump suction stop valve	305	Motorized	Parallel slide valve
Circ pump suction stop bypass valve	20	Motorized	Parallel slide valve
Circ pump discharge stop valve	305	Motorized	Parallel slide valve
Circ pump discharge stop bypass valve	20	Motorized	Parallel slide valve
Circ pump Non return valve	305	Manual	NRV-Flip Disc

**CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

Circ pump leak-off isol valve	125	Hand wheel	Parallel slide valve
MS leg drain isol valve A	50	Hand wheel	Parallel slide valve
MS leg drain isol valve B	50	Hand wheel	Parallel slide valve
MS leg drain isol valve C	50	Hand wheel	Parallel slide valve
MS leg drain isol valve D	50	Hand wheel	Parallel slide valve
MS leg drain common isolating valve	50	Hand wheel	Parallel slide valve
HRH leg drain stop valve A	50	Hand wheel	Parallel slide valve
HRH leg drain stop valve B	50	Hand wheel	Parallel slide valve
HRH leg drain stop valve C	50	Hand wheel	Parallel slide valve
HRH leg drain stop valve D	50	Hand wheel	Parallel slide valve
MS Non-Return Valve A	50	NRV	Piston NRV
MS Non-Return Valve B	50	NRV	Piston NRV
MS Non-Return Valve C	50	NRV	Piston NRV
MS Non-Return Valve D	50	NRV	Piston NRV
HRH Non-Return Valve A	50	NRV	Piston NRV
HRH Non-Return Valve B	50	NRV	Piston NRV
HRH Non-Return Valve C	50	NRV	Piston NRV
HRH Non-Return Valve D	50	NRV	Piston NRV
CR leg drain stop valve A	50	Hand wheel	Parallel slide valve
CR leg drain stop valve B	50	Hand wheel	Parallel slide valve
CRH Non-Return Valve A	50	NRV	Piston NRV
CRH Non-Return Valve B	50	NRV	Piston NRV
HP Turbine Exhaust RH	50	Motorized	Parallel slide valve
HP Turbine Exhaust RH	50	Motorized	Parallel slide valve

**Table 2: Condensate and Auxiliary valves**

VALVE DESCRIPTION	VALVE SIZE	TYPE
DA VENT ISOL VALVE	40 MM	GLOBE
DA VENT ISOL VALVE	40 MM	GLOBE
CRH TO DST A&B ISOL V/V	80 MM	GATE
CRH TO DST A&B ISOL V/V	100 MM	GATE
DST A&B WARMING STEAM OUTL ISOL V/V	300 MM	GATE
BLED STEAM TO DA ISOL BYPASS VALVE	25 MM	GATE
BLED STEAM TO DA ISOL VALVE	450 MM	GATE
DRAIN FROM BLED STM LINE 5 ISOL VALVE	25 MM	GLOBE

**CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

CRH STEAM TO DA ISOL BYPASS VALVE	25 MM	GLOBE
CRH STEAM TO DA ISOL VALVE	450 MM	GATE
DRAIN FROM BLED STM LINE 5 ISOL VALVE	25 MM	GLOBE
CRH STEAM TO DA ISOL BYPASS VALVE	25 MM	GLOBE
CRH STEAM TO DA ISOL VALVE	350 MM	GATE
DRAIN FROM LINE 1445 TP ADV ISOL VALVE	25 MM	GLOBE
DRAIN FROM LINE 1445 TO ADV ISOL VALVE	25 MM	HW
HPH 6 A B/STEAM ISOL V/V	250 MM	GATE
HPH 6 B B/STEAM ISOL V/V	250 MM	GATE
BYPASS TO BSV 1341 DRAIN ISOL VALVE (warming v/v)	25 MM	GLOBE
HPH 7 A B/STEAM ISOL V/V	200 MM	GATE
HPH 7 B B/STEAM ISOL V/V	200 MM	GATE
SFP SUCT LINE VENT ISOL V/V	25 MM	GLOBE
EFP SUCT LINE VENT ISOL V/V	25 MM	GLOBE
EFP SUCT LINE VENT ISOL V/V	25 MM	GLOBE
SFP SUCTION ISOLATING VALVE	400MM	GATE
DA DRAIN ISOL VALVE	200 MM	GATE
DA DRAIN ISOL VALVE	200 MM	GATE

**Table 3: HP HEATER VALVES**

V/V DESCRIPTION	VALVE SIZE	TYPE
HP HTR A BNK FW FILLING LINE ISOL. V/V	25MM	GLOBE
HP HTR B BNK FW FILLING LINE ISOL. V/V	25MM	GLOBE
HP HTR A BNK FW PRESSURE RELIEF ISOL V/V	25MM	GLOBE
HP HTR B BNK FW PRESSURE RELIEF ISOL V/V	25MM	GLOBE
HP HTR 6B HWL CONTROL ISOL. V/V	150MM	GATE
HP HTR 7B HWL CONTROL ISOL. V/V	100MM	GATE
HP HTR 7A HWL CONTROL ISOL. V/V	100MM	GATE
HP HTR 6A HWL CONTROL ISOL. V/V	150MM	GATE
HP HTR 6B NWL CONTROL ISOL. V/V	150MM	GATE
HP HTR 6A NWL CONTROL ISOL. V/V	150MM	GATE
HP HTR 7B NWL CONTROL ISOL. V/V	150MM	GATE
HP HTR 7A NWL CONTROL ISOL. V/V	150MM	GATE

**CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

HP HTR 7A MAG LEVEL IND ISOL. V/V (BOTTOM)	25MM	GLOBE
HP HTR 7A MAG LEVEL IND ISOL. V/V (TOP)	25MM	GLOBE
HP HTR 7B MAG LEVEL IND ISOL. V/V (BOTTOM)	25MM	GLOBE
HP HTR 7B MAG LEVEL IND ISOL. V/V (TOP)	25MM	GLOBE
HP HTR 6A MAG LEVEL IND ISOL. V/V (BOTTOM)	25MM	GLOBE
HP HTR 6A MAG LEVEL IND ISOL. V/V (TOP)	25MM	GLOBE
HP HTR 6B MAG LEVEL IND ISOL. V/V (BOTTOM)	25MM	GLOBE
HP HTR 6B MAG LEVEL IND ISOL. V/V (TOP)	25MM	GLOBE

**Table 4: LP HEATER VALVES**

VALVE DESCRIPTION	VALVE SIZE	TYPE
LPH 1&2 COND INLET BYPASS ISOL V/V	25 MM	GLOBE
LPH 1&2 COND INLET ISOL V/V	300 MM	GATE
LPH 1&2 COND B/P ISOL B/PASS V/V	25 MM	GLOBE
LPH 1&2 COND BYPASS ISOL V/V	300 MM	GATE
LPH 1&2 COND OUTLET ISOL V/V	350 MM	GATE
LP HTR 2 EMERG DRN CTRL V/V INL ISOL V/V	250 MM	CONT
LP HEATER 2 EMERG DRN CV OUTL ISOL V/V	250 MM	GATE
LPH 3 COND INLET ISOL BYPASS V/V	25 MM	GLOBE
LPH 3 COND INLET ISOL V/V	350 MM	GATE
LPH 3 COND OUTLET ISOL BYPASS V/V	25 MM	GLOBE
LPH 3 COND OUTLET ISOL V/V	350 MM	GATE
LPH 3 COND B/P ISOL B/PASS V/V	25 MM	GLOBE
LPH 3 COND BYPASS ISOL V/V	300 MM	GATE
LP HTR 3 CNDS INL DRN ISOL V/V	25 MM	GLOBE
LPH 4 IP B STM SUPL MOT ISOL V/V	600 MM	GATE

**Table 5: TURBINE CONDENSER VALVES**

VALVE DESCRIPTION	VALVE	TYPE
1ST STAGE EXTR P/P SUCT DRN ISOL V/V	25 MM	GLOBE
1ST STAGE EXTR P/P SUCT DRN ISOL V/V	25 MM	GLOBE
2ND STAGE EXTR P/P SUCT ISOL B/P V/V	25 MM	GLOBE
2ND STAGE EXTR P/P SUCT ISOL V/V	300 MM	GATE

**CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

2ND STAGE EXT P/P SUCT ISOL V/V	300 MM	GATE
2ND STAGE EXTR P/P SUCT ISOL B/P V/V	25 MM	GLOB
2ND STAGE EXTR P/P DISCH ISOL V/V	300 MM	GATE
2ND STAGE EXTR P/P DISCH ISOL V/V	300 MM	GATE
P/P AND V/V SEALING ISOLATING V/V	50 MM	GLOBE
LPT SPRAY WTR STRN ISOL V/V	200 MM	GATE
LPT SPRAY WTR STRN ISOL V/V	200 MM	GATE
LPT S/WTR STRAINER OUTLET ISOL V/V	200 MM	GATE
LPT S/WTR STRAINER OUTLET ISOL V/V	200 MM	GATE
HOODSPRAY ISOL VALVE	100 MM	GATE
COND DUMP TO D&RWT ISOL V/V	65 MM	GLOBE
LP B/PASS S/WTR CONTROL INL ISOL V/V	150 MM	GATE
COND RECIRC TO MTC CONTR OUL ISOL V/V	100 MM	GATE
CLC INLET BYPASS ISOL V/V	25 MM	GLOBE
CLC INLET ISOL V/V	300 MM	GATE
CLC OUTLET BYPASS ISOL V/V	25 MM	GLOBE
CLC OUTLET ISOL V/V	300 MM	GLOBE
SFP SUCT LINE VENT ISOL V/V	25 MM	GLOBE
EFP SUCT LINE VENT ISOL V/V	25 MM	GLOBE
EFP SUCT LINE VENT ISOL V/V	25 MM	GLOBE
SFP SUCTION ISOLATING VALVE	400MM	GATE
EFP "A" SUCT ISOL VALVE	300 MM	GATE
EFP "B" SUCT ISOL VALVE	300 MM	GATE
BFPT EXTR PUMP A SUCT ISOL V/V	150 MM	GATE
BFPT EXTR PUMP B SUCT ISOL V/V	150 MM	GATE
BFPT EXT P/P A DISCH ISOL V/V	80 MM	GATE
BFPT EXT P/P B DISCH ISOL V/V	80 MM	GATE
BFPT COND TO MTC CONT INL ISOL V/V	80 MM	GATE
BFPT COND TO MTC CONT OUTL ISOL V/V	80 MM	GATE
BFPT COND TO MTC CONT BYPASS ISOL V/V	80 MM	GATE
SEALING WATER TO PUMPS ISOL VALVE	40 MM	GLOBE

**CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

SEALING WATER TO VALVES ISOL VALVE	40 MM	GLOBE
EFP A BODY VENT TO DST A ISOL V/V	50 MM	GLOBE
EFP B BODY VENT TO DST A ISOL V/V	50 MM	GLOBE
EFP BODY VENT TO DST A NRV A ISOL V/V	50 MM	NRV
EFP BODY VENT TO DST A NRV B ISOL V/V	50 MM	NRV
SFP DISCH ISOL BYPASS VALVE	25 MM	GLOBE
SFP DISCH ISOL VALVE	350-300	GATE
SFP MAIN BODY VENT TO DST A ISOL V/V	50 MM	GLOBE
EFP "A" DISCH ISOL BYPASS V/V	25 MM	GLOBE
EFP A DISCH ISOL VALVE	250-200	GATE
EFP "B" DISCH ISOL BYPASS V/V	25 MM	GLOBE
EFP B DISCH ISOL VALVE	250-200	GATE
EFP A REHEAT SW ISOL VALVE	80 MM	GATE
EFP B REHEAT SW ISOL VALVE	80 MM	GATE
SFP REHEAT S/WATER ISOL VALVE	125 MM	GATE
SFP BOOSTER P/P DISCH VENT ISOL V/V	25 MM	GLOBE
SFP BOOSTER P/P DISCH VENT ISOL V/V	25 MM	GLOBE
SFP BOOSTER P/P DISCH VENT ISOL V/V	25 MM	GLOBE
EFP A BOOSTER P/P DISCH VENT ISOL V/V	25 MM	GLOBE
EFP A BOOSTER P/P DISCH VENT ISOL V/V	25 MM	GLOBE
EFP A BOOSTER P/P DISCH VENT ISOL V/V	25 MM	GLOBE
EFP B BOOSTER P/P DISCH VENT ISOL V/V	25 MM	GLOBE
EFP B BOOSTER P/P DISCH VENT ISOL V/V	25 MM	GLOBE
EFP B BOOSTER P/P DISCH VENT ISOL V/V	25 MM	GLOBE
SFP DISCH VENT ISOL VALVE	25 MM	GLOBE
SFP DISCH VENT ISOL VALVE	25 MM	GLOBE
SFP DISCH VENT ISOL VALVE	25 MM	GLOBE
EFP A DISCH VENT ISOL V/V	25 MM	GLOBE
EFP A DISCH VENT ISOL V/V	25 MM	GLOBE
EFP A DISCH VENT ISOL V/V	25 MM	GLOBE
EFP B DISCH VENT ISOL V/V	25 MM	GLOBE

**CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

EFP B DISCH VENT ISOL V/V	25 MM	GLOBE
EFP B DISCH VENT ISOL V/V	25 MM	GLOBE
EFP A LEAK-OFF ISOL V/V	80 MM	GLOBE
EFP B LEAK-OFF ISOL V/V	80 MM	GLOBE
SFP LEAK-OFF ISOL VALVE	100 MM	GLOBE
CPP INLET HAND ISOL VALVES	250MM	GATE
CPP OUTLET HAND ISOL VALVES	250MM	GATE

## 1.2 NORMATIVE/INFORMATIVE REFERENCES

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

### 1.2.1 Normative

- [1] 240-128557196 Procurement Standard of High Pressure and High Temperature Valves in Eskom Coal Fired Stations.
- [2] 240-142257054-Standard Capability Assessment of Providers for Refurbishment of Valves and Fittings Eskom Coal Fired Stations.

### 1.2.2 Informative

N/A

## 1.3 DEFINITIONS

Definition	Description
Pipework	Pipes and fittings are used for the conveyance of steam, water, gases or other fluids.
Valve	A device for shutting-off or controlling the flow of a fluid through a pipe or duct.
Actuator	A device that produces a motion by converting energy and signals going into the system.

## 1.4 ABBREVIATIONS

Definition	Description
HP	High Pressure
QCP	Quality Control Plan
UT	Ultrasonic Testing
NDT	Non-Destructive Testing

### **CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

Definition	Description
Blr	Boiler
SH	Superheater
HRH	Hot Reheat
CRH	Cold Reheat
NRV	Non-Return Valve

## 2. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
	Engineer, Boiler valves and Pressure Parts
	SME – Kriel Boiler Valve System

## 3. REVISIONS

Date	Rev.	Compiler	Remarks
June 2025	0.1		Draft
June 2025	1		Reviews and comments

## 4. DEVELOPMENT TEAM

The following people were involved in the development of this document:

## 5. ACKNOWLEDGEMENTS

- N/A

**CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.