



* HYDROSTATIC TEST PRESSURE INDICATED APPLIES FOR COMPLETE REPLACEMENT. OWNER TO SPECIFY TEST PRESSURE FOR PARTIAL REPLACEMENT			
DESIGN CODE: EN13480-3			
CONDITIONS	PRESS (kPa)	TEMP (°C)	
LINE CLASS: N/A	DESIGN 4300 kPa (g)	70 °C	
LINE COMMODITY: OIL	OPERATING 2700 kPa (g)	50 °C	
INSULATION: NONE	HYDROSTATIC TEST PRESSURE *	_____ kPa	

LEGEND			
AG	- ABOVE GRADE	RF	- RAISED FACE
BE	- BEVELLED END	SCH	- SCHEDULE
EL	- ELEVATION	SO	- SLIP ON
CL	- CENTRELINE	LR	- LONG RADIUS
DRG	- DRAWING	STL	- STEEL
TOE	- THREADED ONE END	TBE	- THREADED BOTH END
WT	- WALL THICKNESS	FW	- FIELD WELD
FLG	- FLANGE	WN	- WELDING NECK
FS	- FINISHED SURFACE		

PRELIMINARY

PIPING DESIGNER DECLARATION		
I, THE UNDERSIGNED, BEING EXPERIENCED AND COMPETENT IN THE APPLICABLE FIELD OF PIPING DESIGN AS REQUIRED BY SANS 347 ANNEX B, DECLARE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS REVISION OF THE DESIGN IS COMPLETE, ACCURATE AND COMPLIES WITH THE REQUIREMENTS OF THE APPLICABLE HEALTH AND SAFETY STANDARD.		
DESIGN CODE: EN 34580	PR. ENGR. PR. TECH	
CONFORMANCE	SANS 347: 2012	REGISTRATION NO.
HAZARD CATEGORY	II	REGISTRATION BODY
CONFORMITY ASSESSMENT MODULE	DATE	

MATERIAL LIST				
ITEM No.	QTY	SIZE	DESCRIPTION	REV.
01	9m	5"	PIPE 139,7 x 4,0 SMLS DIN 2448 AND DIN 17 175 ST 35.8 III	0
02	1m	2"	PIPE 60,3 x 4,0 SMLS DIN 2448 AND DIN 17 175 ST 35.8 III	
03	2m	1/2"	PIPE 20,5 x 2,5 SMLS DIN 2448 AND DIN 17 175 ST 35.8 III	
04	7	1/2"	PIPE COLD BEND 50 2.5mmWT DIN 2606 SMLS ST 35.8 III	
05	8	5"	ELL 90 DEG 1,50 4mmWT DIN 2605 ST 35.8 III	
06	2	2"	ELL 45 DEG 1,50 4mmWT DIN 2605 ST 35.8 III	0
07	1	5"	TEE STRAIGHT 4mmWT DIN 2615 ST 36.8 III	0
08	1	5" x 2"	TEE REDUCING 4mmWT DIN 2615 ST 36.8 III	0
09	1	6" x 5"	REDUCER CONC 4mmWT DIN 2616 ST 35.8 III	0
10	1	6"	FLG WN PN 64 RF BW 4.5mmWT DIN 2636 C22.3	
11	1	6"	GASKET PN 64 304 SS SP WND GRAFOIL 4,5MM	0
12	8	M30x150mm	STUD BOLT FORM L/N DIN 2510 24Cr Mo5 W/ DIN 2510 C35 NUTS	0
13	6	5"	FLG WN PN 64 RF BW 4.5mmWT DIN 2636 C22.3	0
14	6	5"	GASKET PN 64 304 SS SP WND GRAFOIL 4,5MM	
15	6	M27x130mm	STUD BOLT FORM L/N DIN 2510 24Cr Mo5 W/ DIN 2510 C35 NUTS	
16	8	M27x130mm	STUD BOLT FORM L/N DIN 2510 24Cr Mo5 W/ DIN 2510 C35 NUTS	
17	2	2"	FLG WN PN 64 RF BW 4.5mmWT DIN 2636 C22.3	
18	2	2"	GASKET PN 64 304 SS SP WND GRAFOIL 4,5MM	
19	8	M20x110mm	STUD BOLT FORM L/N DIN 2510 24Cr Mo5 W/ DIN 2510 C35 NUTS	
20	1	2"	GLOBE NP 64 RF OS&Y TYPE DIN 3202 C22.8 BODY BB	
21	2	1/2"	GLOBE PN 64 BW OS&Y TYPE DIN 3202 C22.8 WB	
22	2	5"	CHECK PN 64 RF TYPE DIN 3202 15Mo3 BODY 13CrMo STEEL TRIM BB	
23	4	1/4"	ELL 90 DEG 1,50 4mmWT DIN 2605 ST 35.8 III	
24	1	1/4"	WELDED STUB	
25	5m	1/4"	PIPE 42.2 x 3.56 SMLS DIN 2448 AND DIN 17 175 ST 35.8 III	
26	1	3 WAY	SAFETY BLOCK	

PIPE SUPPORT MATERIAL			
06	1m	1/2"	PIPE 273,0 x 9mm ERW SANS 719 GR B
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- GENERAL NOTES:
- WELDRODS FOR ROOTS & FILLER RUNS AND FOR CAPPING.SEE???
 - F.W. - DENOTES FIELD FIT WELD PLUS 150mm FOR SITE ADJUSTMENT.
 - UNDERGROUND PIPING TO BE COATED & WRAPPED AS PER INSPECTION DOC. No.???
 - RADIOGRAPHYSEE ?????
 - WELD HARDNESS200.....BHN
 - PAINTING TO PAINT PROCEDURE No.SEE ???
 - WELDING PROCEDURE SPEC.???????
 - PIPING INSTALLATION PROCEDURE SPEC.???
 - ALL DIMENSIONS ARE IN MILLIMETERS(mm), UNLESS OTHERWISE STATED.

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--	1	23/08/2019	THIS DRAWING SUPERSEDES 063/14685SHT*001 REV F AND AS-IS AS PER ESKOM REQUEST				---	---									
00	0	---	RESERVED FOR AFC				ML	---	0.63/70093	SC/TURBINE CONTROL FLUID P&ID							
D.O. REV		DATE	REVISION				REV BY	CHKD BY	APP BY	AUTH BY	KKS APP	REFERENCE DRAWINGS					
AUTHORISED FOR ESKOM BY:			CLASSIFICATION D00228 - ISOMETRIC PBS PATH SC11				LETHABO POWER STATION UNIT 4 CONTROL FLUID DELIVERY PIPING - OIL ROOM PIPELINE TO FILTER A&B ----- -----										
CODIFICATION BY:																	
APPROVED BY:																	
CHECKED BY:																	
CREATED BY:																	
M.LEBENYA																	
SCALE			N.T.S														
SHT			REV			SIZE A2L											
003			1														