E 139523508 N 113361470 · EL +6384 5 1.1/2X3/4"NPD-E 139523508 7 CONN TO 19-PK-4001/TP-6 1.5/in/RFFE/150 E 139524770 N 113361470 4 1.1/2X1.1/2X1/2"NPD /SP-15-240B3-02 SEE ISO 2121-N91M0L-2 SPEC 1C13 E 139523341 N 113360734 EL +4624 18 STEM WEST

BILL OF MATERIAL HOLD COMPONENT DESCRIPTION STATUS ITEM CODE (IN) PIPE - A106-B PE SMLS T01AC03Z02 S-XS <PIPA010A111/2XS> (L-6679) 1.1/2 I132809 PIPE - A106-B PE SMLS T01AC03Z02 S-XS < PIPA010A111/2XS > (L-6679). 1.1/2 I132809 2.9 M PIPE - A106-B PE SMLS T01AC03Z02 S-XS < PIPA010A11/2XS > (L-6679) 1/2 I132777 0.1 M FITTINGS 1.1/2X 1.1/2X1/2 REDUCING TEE ASME B16.11 3000# A105N SWE SWE - R12FNC441101 NREQD 1.1/2X3/4 I1651306 <RTEA300KBK11/23/4> (L-RTE15) 90 ELBOW ASME B16.11 3000# A105N SWE SWE - R31FNC441103 NREOD 11651297 1.1/2<90FA300LBK11/2> (L-178) 90 ELBOW ASME B16.11 3000# A105N SWE SWE - R31FNC441103 NREOD 1 1/2 11651297 <90FA300LBK11/2>(L-178). NIPPLE - - A106-B PE MTE SMLS LENGTH 100mm R03AQC03ZW04 S-XS I2221184 <NTOA010E1111624> (L-7888) CAP ASME B16.11 3000# A105N FTE NREQD - R41FNC442001 NREQD <CATA300KBK3/4> 3/4 I1651686 PLUG ROUND HEAD ASME B16.11 - A105N MTE NREQD - R42FQC44W001 NREQD I10088243 <PLUA300CK1/2>(L-77) FLANGES 1 SW FLANGE ASME B16.5 150# A105N RFFE SWE 125 - 250 AARH F02CDC44B105 S-XS 1.1/2 15378345 <SWFA300R1511/2XS> (L-295) 2 SW FLANGE ASME B16.5 150# A105N RFFE SWE 125 - 250 AARH F02CDC44B105 S-XS I5378345 <SWFA300R1511/2XS> (L-295). 3 SPIRAL WOUND GASKET ASME B16.20 150# RFFE 304/PTFE CARBON STEEL SS 304 ASME 1.1/2 12230478 B16.5 G03GDB1IG12 < SPAQ505R1EA11/2> (L-SPA04) 14 STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 I53437201 <SB2R51G1/223/4> - 2 NUTS PER BOLT - 70 mm Length 5 STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 I53437079 <SB2R51G1/251/4> - 2 NUTS PER BOLT - 130 mm Length VALVES / IN-LINE ITEMS 6 DISC CHECK WFR VALVE ASME B16.34 150# A216-WCB RFTBE 316/VITON 125 - 250 19921128 AARH SL VERTICAL&HORIZONTAL CRACK. PRESS. 1/2 PSI ASME B16.5 V40JDC29P02 NREOD < N/A> (L-CK1492C). GATE VALVE API 602 800# A105N SWE SWE 8-F6&HF WB-OS&Y SOW PTFE HW 163559258 V01GIC4411BM4 NREOD < G611 2L-GA1423A > (L-GA1423A). GATE VALVE API 602 800# A105N SWE FTE 8-F6&HF WB-OS&Y SOW PTFE HW I63559274 V01GIC4412BM4 NREQD < G71 2L-GA1424A > (L-GA1424A)

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STRE		RKS FOR MECHANICAL SUBCONTRACTOR:								T
Ø		1) LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED.								
		2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION.								
		3) FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL ズ, ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT								
		4) FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603.								
<u></u>	5) GUS	5) GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002.								
~;		OSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED.								
7 IN CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN. 8) ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF.TO 4274-LZ-PC-00000603).										
_	9) WHI	ERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO	ASSEMBLY NO	) FEA005 AND FE019.						
$\tilde{z}$	NIDC - A PROPRIORITION OF CHIEF TANKING TO A PROPRIOR OF THE CARLO								Si	
5	SUPPORTS LEGEND:  DENOTES PARTS LIST NO PIPE A-RESTING SUPPORT G-GUIDE F-AXIAL STOP B-ANCHOR M-SPRING S-TEFLON PAD WHERE A WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.									
7	WHEALE WITHOUT NOWIDEANOUS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.									
9									STRESS CALC. Nº	TITI
<u> </u>									_	
5										- T(
									P & ID	I
μ									19-A-19-000-1-01-00001 sheet 110	
EXTR. DATE:									LINE LIST Nº	1
	00	ISSUED FOR REFERENCE		23-JUN-23	U.CHAVAN	P.VAZE	G.PAGANONI		19-L-19-000-2-00-80602	
										4
	DEV	DESCRIPTION		DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	PIPE LAYOUT N°	
	REV.								19-L-19-000-2-00-86192 sheet 2	

N 113360830

REFERENCE Signature for construction is shown on Iso list of relevant CWA

**ISSUED FOR** 

CS

HEAT TREATMENT (PWHT)

INSULATION CODE / THK. (mm)

ISOMETRIC DRAWING LINE 1-1/2"-N-91M0L-1C13

PIPE MATERIAL NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST.

REPSQL

ANNEX

2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102

3. WELDING ACCORDING TO 45-L-45-000-2-00-80021

5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "<N/A>" MEANS UNICODE IS "NOT AVAILABLE"

PAINTING SCHEME (3) CONTRACTOR: CONTRACTOR DRAWING NUMBER: PROJECT:

DRAWING NUMBER

PIPING CLASS 4001008 4274-XH-DL-2121N91M0L-1 WELDING CLASS (4) LOW LINEAL DENSITY POLYETHILENE (PEL) AND POLYPROPYLENE (PP) PLANTS PED CATEGORY FOR PROJECT - ALBA PROJECT

CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX

19-000-2-02-00001 sheet 2121N91M0L-1