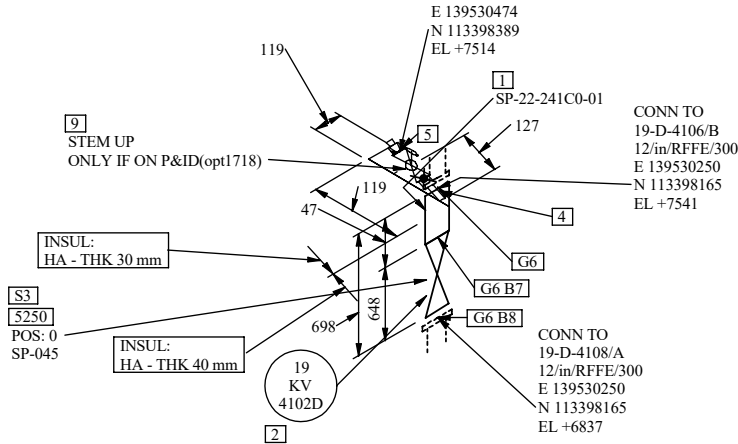
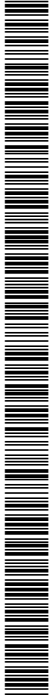




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EXTR. DATE: 22-09-2023 14:09:20      STREAM NO.:4802      STREAM REV. NO. : 10      REV. CAUSE ID: 23



BILL OF MATERIAL					
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
FITTINGS					
1	SPECIALTY COMPONENT	12	SP-22-241C0-01	1	
INSTRUMENTS					
2	INSTRUMENT COMPONENT	12	19-KV-4102D	1	
PIPE SUPPORTS					
3	SPECIALITY SUPPORT - SP-045	12	5250	1	
FITTINGS					
4	NIPPLE - - A106-B PE MTE SMLS LENGTH 100mm R03AQC03ZW04 S-160 <NTQA010E1110324> (L-7881)	3/4	12221177	1	
5	PLUG ROUND HEAD ASME B16.11 - A105N MTE NREQD - R42FQC44W001 NREQD <PLUA300CK3/4> (L-77)	3/4	110088232	1	
GASKETS					
6	SPIRAL WOUND GASKET ASME B16.20 300# RFFE 304/PTFE CARBON STEEL SS 304 ASME B16.5 G03GFB1IG12 <SPAQ505R3EA12> (L-SPA05)	12	163598752	3	
BOLTS					
7	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G11/883/4> - 2 NUTS PER BOLT - 225 mm Length	1.1/8	153438074	16	
8	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G11/863/4> - 2 NUTS PER BOLT - 175 mm Length	1.1/8	153438064	16	
VALVES / IN-LINE ITEMS					
9	BALL VALVE ASME B16.34 800# A105N SWE FTE 316/R-PTFE, GF 3PSB-RED BORE FLOATING BALL OHW FIRE SAFE :API 607 & ANTISTATIC DEVICES "A60T series" TEAL V04JIC44126IG NREQD <N/A> (N/A)	3/4	166567923	1	

<b>REMARKS FOR MECHANICAL SUBCONTRACTOR:</b> 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 ✕ , ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT 4) FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. 5) GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002. 6) CROSSING 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) WHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/ 4274 -NN-DW-00000002 AND ASSEMBLY NO FEA005 AND FE019.						
<b>SUPPORTS LEGEND:</b> □ DENOTES PARTS LIST NO    PIPE SUPPORT    A=RESTING SUPPORT    G=GUIDE    F=AXIAL STOP    B=ANCHOR    M=SPRING    S=TEFLON PAD    WHERE □ WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.						
02	ISSUED FOR CONSTRUCTION	22-SEP-23	M.YADAV	P.VAZE	G.PAGANONI	STRESS CALC. N° -
01	ISSUED FOR CONSTRUCTION	10-AUG-23	M.YADAV	P.VAZE	G.PAGANONI	P & ID 19-A-19-000-1-01-00001 sheet 54
00	ISSUED FOR CONSTRUCTION	27-JAN-23	U.CHAVAN	P.VAZE	G.PAGANONI	LINE LIST N° 19-L-19-000-2-00-80602
REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT
						PIPE LAYOUT N° 19-L-19-000-2-00-86197 sheet 3

APPROVED FOR CONSTRUCTION  Signature for construction is shown on Iso list of relevant CWA		PIPE MATERIAL	NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST. 2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-800102. 3. WELDING ACCORDING TO 45-L-45-000-2-00-80021. 4. PAINTING ACCORDING TO 45-A-45-000-1-00-20160. 5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "<N/A>" MEANS UNICODE IS "NOT AVAILABLE".		
		CS			
		HEAT TREATMENT (P/WHIT)			
		N			
		PAINTING SCHEME (3)	20	CONTRACTOR:	CONTRACTOR DRAWING NUMBER:
		PIPING CLASS	1E64		4274-XH-DL-2121VZ41C01-1
		WELDING CLASS (4)	A-5	 LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT	
		PED CATEGORY	Art 4.3		
		INSULATION CODE / THK. (mm)	HA 40	ANNEX 19	SPEC. L
				DRAWING NUMBER 19-000-2-02-00001 sheet 2121VZ41C01-1	
ISOMETRIC DRAWING LINE  12"-VZ-41C01-1E64 (HA)		CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX			REV. 02