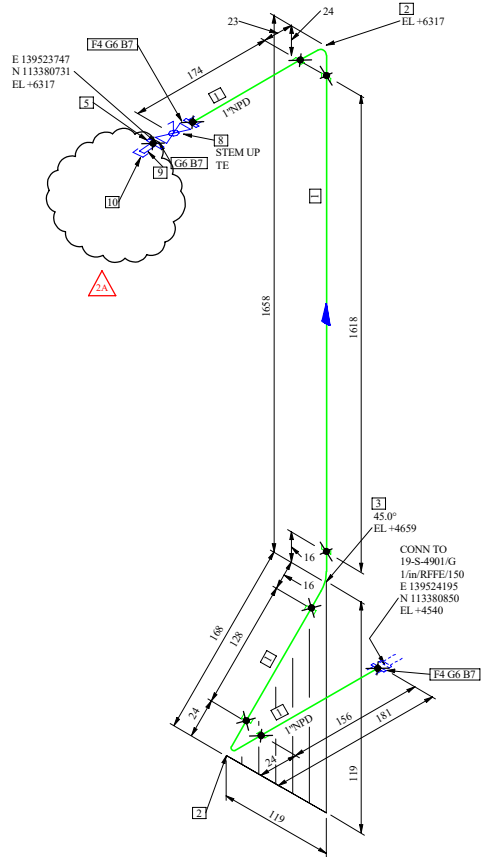


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STREAM NO.: 4556    STREAM REV. NO.: 10    REV. CAUSE ID: 10

EXTR. DATE: 28-03-2024 20:14:44



### BILL OF MATERIAL

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
<b>PIPE</b>					
1	PIPE - A106-B PE SMLS T01AC03Z02 S-XS <PIPA010A11XS> (L-6679)	1	1132793	2.0 M	
<b>FITTINGS</b>					
2	90 ELBOW ASME B16.11 3000# A105N SWE SWE - R31FNC441103 NREQD <90FA300LBK1> (L-178)	1	11651296	2	
3	45 ELBOW ASME B16.11 3000# A105N SWE SWE - R32FNC441101 NREQD <45FA300LBK1> (L-184)	1	11651292	1	
<b>FLANGES</b>					
4	SW FLANGE ASME B16.5 150# A105N RFFE SWE 125 - 250 AARH F02CDC44B105 S-XS <SWFA300R151XS> (L-295)	1	15378343	2	
5	BLIND FLANGE ASME B16.5 150# A105N RFFE NREQD 125 - 250 AARH F10CDC44B005 <BLFA300R151> (L-140)	1	11652357	1	
<b>GASKETS</b>					
6	SPIRAL WOUND GASKET ASME B16.20 150# RFFE 304/P1FE CARBON STEEL SS 304 ASME B16.5 G03GDB11G12 <SPAQ505R1EA1> (L-SPA04)	1	12230476	3	
<b>BOLTS</b>					
7	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE 1010B0301 <SBRS1G1/221/2> - 2 NUTS PER BOLT - 65 mm Length	1/2	153437190	12	
<b>VALVES / IN-LINE ITEMS</b>					
8	BALL VALVE API 608 150# A216-WCB RFFE 316/R-P1FE, GF B7/2H 125 - 250 AARH 2PSB-FULL BORE FLOATING BALL OHW ASME B16.5 V04JDC29BZZG NREQD <N/A> (N/A)	1	110013687	1	
9	NIPPLE - A106-B PE MTE SMLS LENGTH 100mm R03AQ03ZW04 S-XS <NTOA010E1121624> (L-7888)	1	12221194	1	
10	CAP ASME B16.11 3000# A105N FTE NREQD - R41FNC442001 NREQD <CATA300KBK1> (L-79)	1	11651687	1	

### REMARKS FOR MECHANICAL SUBCONTRACTOR:

- 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 FED19.

### SUPPORTS LEGEND:

□ DENOTES PARTS LIST NO  
— PIPE SUPPORT  
A = RESTING SUPPORT WHERE A WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.  
G = GUIDE  
F = AXIAL STOP  
B = ANCHOR  
M = SPRING  
S = TIE/ON PAD

02A	ISSUED FOR CONSTRUCTION - SITE REVISION	09/12/24	W.DONOFRIO	F.CARRA	M.PECILE	STRESS CALC. N°
02	ISSUED FOR REFERENCE	29-MAR-24	M.YADAV	P.VAZE	G.PAGANONI	-
01	ISSUED FOR REFERENCE	09-FEB-24	M.YADAV	P.VAZE	G.PAGANONI	P & ID
00	ISSUED FOR REFERENCE	30-JUN-23	U.CHAVAN	P.VAZE	G.PAGANONI	19-L-19-000-2-00-80602
REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT
						19-L-19-000-2-00-86196 sheet 2

ISSUED FOR  
REFERENCE

Signature for construction is shown  
on Iso list of relevant CWA

TITLE:  
**ISOMETRIC DRAWING  
LINE**

1"-VZ-49A01-1C14

PIPE MATERIAL	<b>NOTES:</b> 1. FOR TECHNICAL DETAILS SEE LINE LIST. 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. 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 (PWHT)			
N			
PAINTING SCHEME (3)			
1	CONTRACTOR:	CONTRACTOR DRAWING NUMBER:	PROJECT:
PIPING CLASS		4274-XH-DL-2121VZ49A01-1	4001008
WELDING CLASS (4)	<b>LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS</b> <b>CLIENT / COMPLEX</b> FOR PROJECT - ALBA PROJECT <b>REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX</b>		
E-2			
PED CATEGORY			
II			
INSULATION CODE / THK. (mm)	ANNEX 19	SPEC. L	DRAWING NUMBER 19-000-2-02-00001 sheet 2121VZ49A01-1
N 0			REV: 2A