

BILL OF MATERIAL									
PT NO COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD					
PIPE									
1 PIPE - A312-TP304/304L DUAL GR PE SMLS T01AL2CZ02 S-40S <pipb04da23 440s=""></pipb04da23>	3/4	I2257938	2.0 M						
(L-PIP111)									
<u>FITTINGS</u>									
2 COUPLING ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R01FNL2A1101	3/4	I2258104	1						
NREQD <fcpb450lbk3 4=""> (L-FCP08)</fcpb450lbk3>									
3 90 ELBOW ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R31FNL2A1103	3/4	I2258116	2						
NREQD <90FB450LBK3/4> (L-90F05)									
4 SPECIALTY COMPONENT	3/4	19-FX-4101	1						
<u>FLANGES</u>									
5 SW FLANGE ASME B16.5 150# A182-F304/304L DUAL GR RFFE SWE 125 - 250 AARH	3/4	I2260362	1						
F02CDL2AB105 S-40S <swfb450r153 440s=""> (L-SWF30)</swfb450r153>									
GASKETS									
6 SPIRAL WOUND GASKET ASME B16.20 150# RFTBE 304/GRAFOIL SS 304 SS 304 ASME	3/4	11654481	2						
B16.5 G03GDP1IS04 <n a=""> (N/A)</n>									
BOLTS									
7 STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B8M CL2/A194-8MA INCH SIZE	1/2	I63801410	8						
I01OB1601 <sb2r58g1 2="" 221=""> - 2 NUTS PER BOLT - 65 mm Length</sb2r58g1>									
VALVES / IN-LINE ITEMS									
8 GATE VALVE API 602 800# A182-F316/316L DUAL GR SWE SWE 12-316&HF API 602	3/4	I3404186	1						
A193-B8M CL2/8MA BB-OS&Y SOW API 602 HW V01GIL1M114N NREQD < G63_4L-AL021>									
(L-AL021)									

00 ISSUED FOR REFERENCE 28-IIII23 M.V.ADAV P.V.AZE G.PAGANONI LINE LIST Nº													
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 X, 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.  SUPPORTS LEGEND: DENOTES PARTSLIST NO PIPE SUPPORT A-RESTING SUPPORT G-GUIDE F-AXIALSTOP B-ANCHOR M-SPRING S-TEFLON PAD WHERE AWITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.  5 SUPPORTS LEGEND: SUPPORT SUP	1\ T.D.\												
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,	01	ISSUED FOR REFERENCE	08-DEC-23	M.YADAV	P.VAZE	G.PAGANONI		19-A-19-000-1-01-00001 sheet 106					
	01							19-A-19-000-1-01-00001 sheet 106 LINE LIST N°					
	01							19-A-19-000-1-01-00001 sheet 106 LINE LIST N° 19-L-19-000-2-00-80602					
DATE   DRW. BY   CHECK BY   APPR. CLIENT   19-L-19-000-2-00-8		ISSUED FOR REFERENCE	28-JUL-23	M.YADAV	P.VAZE	G.PAGANONI		19-A-19-000-1-01-00001 sheet 106 LINE LIST N°	-				

Signature for construction is shown on Iso list of relevant CWA

**ISSUED FOR** 

REFERENCE

ISOMETRIC DRAWING LINE 3/4"-IA-91F0Q-6C4

NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST.

ANNEX 19

PIPE MATERIAL

304, dual grade

HEAT TREATMENT (PWHT)

WELDING CLASS (4)

PED CATEGORY

INSULATION CODE / THK. (mm)

N

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"

DRAWING NUMBER 19-000-2-02-00001 sheet 2121IA91F0Q-1

PAINTING SCHEME (3) CONTRACTOR: CONTRACTOR DRAWING NUMBER: PROJECT: NR 4001008 PIPING CLASS 4274-XH-DL-2121IA91F0Q-1

> LOW LINEAL DENSITY POLYETHILENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT REPSQL Art 4.3

CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX

01

FILENAME: 19-000-2-02-00001 sheet 2121IA91F0Q-1.dwg