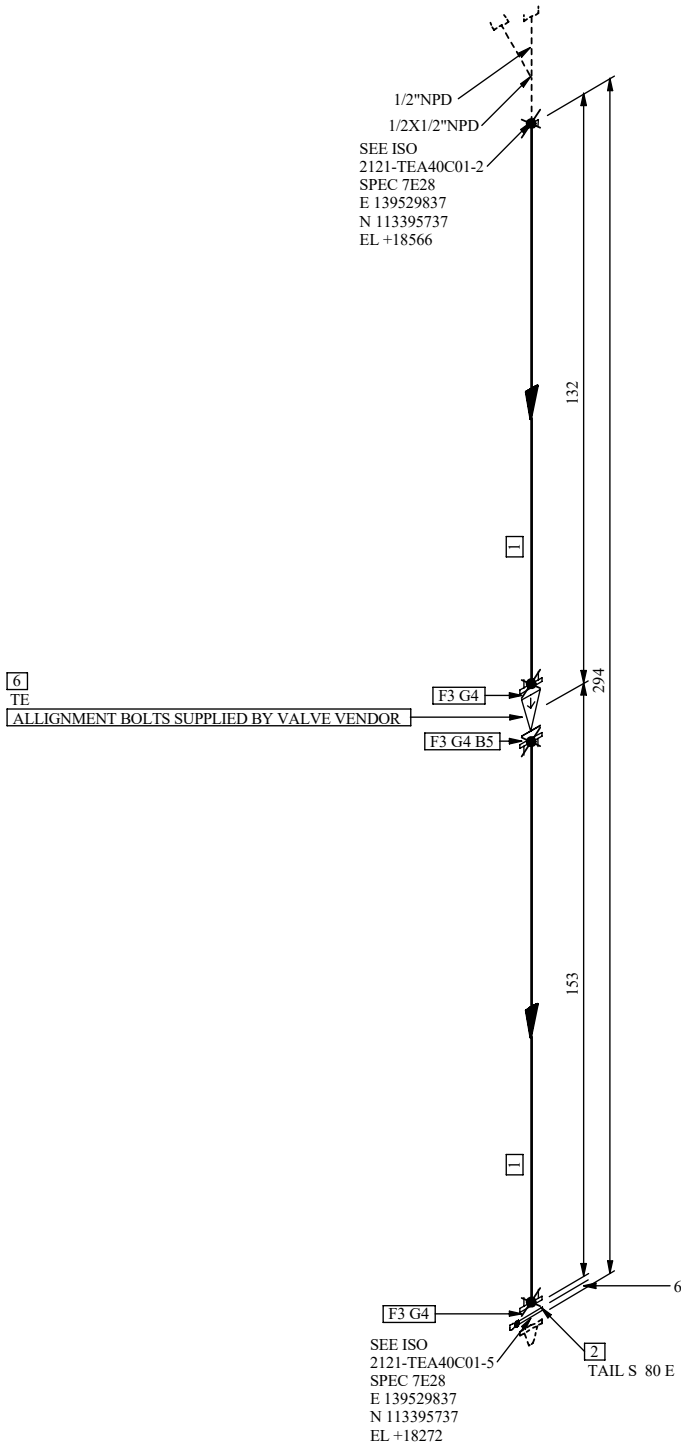


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PREVIOUS AUTHORIZATION OF REPSOL. COMPUTERIZED DRAWING (HANDWRITING STRICTLY FORBIDDEN).






EXTR. DATE: 22-11-2023 10:26:07

STREAM NO.:4036 STREAM REV. NO. : 10 REV. CAUSE ID: 23



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 FE019.

SUPPORTS LEGEND:  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.

| | | | | | | | |
|------|----------------------|-----------|----------|----------|------------|--------------|--|
| | | | | | | | STRESS CALC. N° |
| | | | | | | | - |
| 01 | ISSUED FOR REFERENCE | 24-NOV-23 | M.YADAV | P.VAZE | G.PAGANONI | | P & ID 19-A-19-000-1-01-00001 sheet 32 |
| 00 | ISSUED FOR REFERENCE | 21-JUL-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 5 |

ISSUED FOR
REFERENCE

Signature for construction is shown
on Iso list of relevant CWA

TITLE
ISOMETRIC DRAWING
LINE

1/2"-TEA-40C01-7E28

BILL OF MATERIAL

| PT NO | COMPONENT DESCRIPTION | N.S. (IN) | ITEM CODE | QTY | HOLD STATUS |
|------------------------|--|-----------|-----------|-------|-------------|
| PIPE | | | | | |
| 1 | PIPE - A312-TP304/304L DUAL GR PE SMLS T01AL2CZ02 S-80S <PIPB04DA21/280S> (L-PIP110) | 1/2 | I2257955 | 0.2 M | |
| FITTINGS | | | | | |
| 2 | SPECTACLE DISC ASME B16.48 600# A240-304/304L DUAL GR FFTBE 125 - 250 AARH ASME B16.5 D0601HL2BO03 NREQD <F18B52DF6A10> (L-FI817) | 1/2 | I2383278 | 1 | |
| FLANGES | | | | | |
| 3 | SW FLANGE ASME B16.5 600# A182-F316/316L DUAL GR RFFE SWE 125 - 250 AARH F02CHL1MB105 S-80S <SWFB34D4651/280S> (L-SWF38) | 1/2 | I3184198 | 3 | |
| GASKETS | | | | | |
| 4 | SPIRAL WOUND GASKET ASME B16.20 600# RFTBE 304/GRAFOIL SS 304 SS 304 ASME B16.5 G03GHP1IS04 <N/A> (N/A) | 1/2 | I1169016 | 3 | |
| BOLTS | | | | | |
| 5 | STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE 101OB0301 <SB2R51G1/24> - 2 NUTS PER BOLT - 100 mm Length | 1/2 | I53437072 | 4 | |
| VALVES / IN-LINE ITEMS | | | | | |
| 6 | DISC CHECK WFR VALVE ASME B16.34 600# A351-CF8M RFTBE 316/R-PTFE, GF 125 - 250 AARH SL VERTICAL&HORIZONTAL CRACK. PRESS. 1/2 PSI ASME B16.5 V40JHL08P01 NREQD <N/A> (N/A). | 1/2 | I59422385 | 1 | |

| | | | | |
|-----------------------------|--|---|--|---------|
| PIPE MATERIAL | NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST. 2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102. 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". | | | |
| 304, dual grade | | | | |
| HEAT TREATMENT (PWHIT) | | | | |
| N | | | | |
| PAINTING SCHEME (3) | | | | |
| NR | | | | |
| PIPING CLASS | | | | |
| 7E28 | | | | |
| WELDING CLASS (4) | | | | |
| F-1 | | | | |
| PED CATEGORY | | | | |
| Art 4.3 | | | | |
| INSULATION CODE / THK. (mm) | | | | |
| N 0 | | | | |
| ANNEX 19 | SPEC. L | DRAWING NUMBER 19-000-2-02-00001 sheet 2121TEA40C01-1 | | REV. 01 |