

**PIPING SYSTEM PTE LTD**

Pipeline Material and Equipment Experts

DRAWING NO.:

PIPE-12-4.57-SS-ASTM A312 GRADE TP304/304L-20260303

DRAWING DATE:

03-Mar-2026

|              |          |             |                                                                                                            |      |      |
|--------------|----------|-------------|------------------------------------------------------------------------------------------------------------|------|------|
| INQUIRY NO.: | OR999999 | Description | PIPE-12INCHES-SCH10S(4.57MM) WALL THICKNESS-SMLS-SS-ASTM A312 GRADE TP304/304L-PE-ASME B36.19M-NACE MR0175 | QTY  | UNIT |
| ITEM NO.:    | 37       |             |                                                                                                            | 1000 | M    |

**PIPE&TUBE DRAWING AND DIMENSIONS DATA**

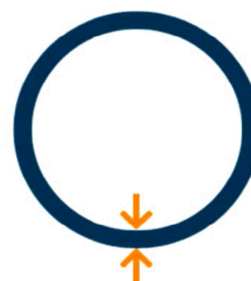
Nominal Pipe Size



Outside Diameter



Inside Diameter



Wall Thickness

| STANDARD |          | ASTM A312 GRADE TP304/304L |             |        |        | kg   |              | kg           |         | m <sup>3</sup> |     | (in mm) |          |                   |
|----------|----------|----------------------------|-------------|--------|--------|------|--------------|--------------|---------|----------------|-----|---------|----------|-------------------|
| NAME     | MATERIAL | NPS                        | OD INCH(ES) | OD     | ID     | WT   | METER WEIGHT | TOTAL WEIGHT | PROCESS | TOTAL VOLUME   | HIC | IGC     | MTC TYPE | REFERENCE HS CODE |
| PIPE     | SS       | 300                        | 12          | 323.90 | 314.76 | 4.57 | 35.99        | 35990.00     | SMLS    | 104.91         | N/A | IGC     | MTC3.1   | 7304 1110.00      |

MATERIAL STANDARD: ASTM A312 GRADE TP304/304L Chemical element composition content (%)

| COMPONENT | C     | Si | Mn | P     | S    | Cr | Ni |
|-----------|-------|----|----|-------|------|----|----|
| Max       | -     | -  | -  | -     | -    | 18 | 8  |
| Min       | 0.035 | 1  | 2  | 0.045 | 0.03 | 20 | 12 |

ASTM A312 GRADE TP304/304L Mechanical Properties

| Tensile Strength | Yield Point |
|------------------|-------------|
| $\sigma_b$       | $\sigma_s$  |
| Mpa              | Mpa         |
| ≥485             | ≥170        |

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BASED IN SINGAPORE, PIPING THE WORLD

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