

## CERTIFICADO PATRON DE CND

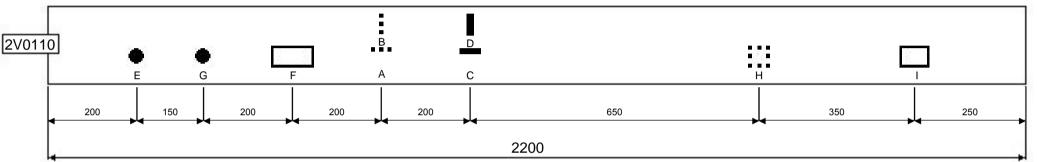
**TEND** 

NDT Reference Standard Certificate

Tubo patrón número
Reference standard #

2V0110





Valores Pedidos / Requested Values

Valores Medidos / Measured Values

| Posicion<br>Position | Tipo de Notch<br>Notch Type                           | Ancho / Diam<br>Max [mm]<br>Max Width / Diam | Profundidad<br>Nominal [%]<br>Depth | Tolerancia<br>[%]<br>Tolerance | Profundidad<br>Maxima [mm]<br>Max Depth | Profundidad<br>Minima [mm]<br>Min Depth | Profundidad<br>Nominal [mm]<br>Nom Depth | Longitud<br>Maxima<br>[mm]<br>Max Length | Longitud<br>[mm]<br>Length | Profundida<br>d A [mm]<br>Depth A | Profundida<br>d B [mm]<br>Depth B | Ancho / Diam<br>[mm]<br>Width / Diam | Responsable<br>Responsible | Fecha<br>Date |
|----------------------|---|--|-------------------------------------|--------------------------------|---|---|--|--|----------------------------|-----------------------------------|-----------------------------------|--------------------------------------|----------------------------|---------------|
| Α                    | Longitudinal Interno<br>Longitudinal ID               | 0,84   | 5                                   | ±15                            | 0,408                                   | 0,302                                   | 0,355                                    | 47,00                                    | 47,00                      | 0,356                             | 0,362                             | 0,84                                 | Dante Antunez              | 13/12/12      |
| В                    | Transversal Interno Transverse ID                     | 1,00   | 5                                   | ±0                             | 0,355                                   | 0,355                                   | 0,355                                    | 50,80                                    | 46,90                      | 0,355                             | 0,355                             | 0,87                                 | Dante Antunez              | 13/12/12      |
| С                    | Longitudinal Externo longitudinal OD                  | 1,00   | 5                                   | ±15                            | 0,408                                   | 0,302                                   | 0,355                                    | 50,80                                    | 49,30                      | 0,386                             | 0,389                             | 0,83                                 | Dante Antunez              | 13/12/12      |
| D                    | Transversal Externo Transverse OD                     | 1,00   | 5                                   | ±15                            | 0,408                                   | 0,302                                   | 0,355                                    | 50,80                                    | 46,00                      | 0,398                             | 0,384                             | 0,84                                 | Dante Antunez              | 13/12/12      |
| Е                    | Agujero Fondo Plano<br>Flat bottom hole               | 6,40   | 33                                  | +15-0                          | 2,721                                   | 2,366                                   | 2,366                                    | -  | -                          | 2,300                             | -                                 | 6,20                                 | Pablo Mazzeo               | 13/12/12      |
| F                    | Chavetero<br>Grove                                    | 6,00   | 33                                  | +15-0                          | 2,721                                   | 2,366                                   | 2,366                                    | 16,00                                    | 15,00                      | 2,350                             | 2,350                             | 5,20                                 | Pablo Mazzeo               | 13/12/12      |
| G                    | Agujero Fondo Plano<br>Flat bottom hole               | 6,35   | 33                                  | +15-0                          | 2,694                                   | 2,343                                   | 2,343                                    | -  | ı                          | 2,200                             | 1                                 | 6,00                                 | Pablo Mazzeo               | 05/04/13      |
| Н                    | Reduccion de espesor interno Wall thickness reduction | 25,40  | 13                                  | ±0                             | 0,888                                   | 0,888                                   | 0,888                                    | 50,80                                    | 43,00                      | -                                 | -                                 | 23,00                                | Default Default            | 23/11/15      |

## Notas:

- 1.-Todas las dimensiones son en milimetros excepto que se indique lo contrario.
- 2.-Minima Profundidad Nominal de las ranuras 0.3 mm.

CERTIFICADO CON REPLICA SI

## Notes:

- 1.-All dimensions in milimeters unless stated.
- 2.-Minimum notch nominal depth 0.3 mm.
- CERTIFIED WITH PLASTIC REPLICA YES

OT-PMANT | Fecha | 17/09/2020 | Hoja | 1/2 | Documento | TAND-001-05 | Date | 01:35:04 p.m. | Page | 1/2 | Vigencia | 17/04/2006



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| Datos del Producto Product Information |       |                                       |        |                                   |          |  |  |  |  |  |
|--|-------|---------------------------------------|--------|-----------------------------------|----------|--|--|--|--|--|
| Diametro [mm] Diameter                 | 168,3 | Cliente<br>Client                     | ARAMCO | Ciclo<br>Product                  | 61123    |  |  |  |  |  |
| Espesor [mm]<br>Wall Thickness         | 7,1   | Tratamiento Termico<br>Heat Treatment | NO     | Colada<br><sub>Heat</sub>         | 26815    |  |  |  |  |  |
| Trazabilidad<br>Traceability           | 0     |                                       |        | Expediente<br>Manufacturing Order | /2603.06 |  |  |  |  |  |

| osicion<br>Position | Tipo de Notch<br>Notch Type       | Ancho / Diam<br>Max [mm]<br>Max Width / Diam | Nominal [%] |   | Profundidad<br>Maxima [mm]<br>Max Depth |   |   |   | Longitud<br>[mm]<br>Length | Profundida<br>d A [mm]<br>Depth A | Profundida<br>d B [mm]<br>Depth B | Ancho / Diam<br>[mm]<br>Width / Diam | Responsable<br>Responsible | Fecha<br>Date |
|---------------------|-----------------------------------|--|-------------|---|---|---|---|---|----------------------------|-----------------------------------|-----------------------------------|--------------------------------------|----------------------------|---------------|
|                     | Defecto Natural<br>Natural defect | -  | -           | - | -                                       | - | - | - | -                          | -                                 | -                                 | -                                    | Default Default            | 17/09/20      |

Instrumentos de Medicion Utilizados:

Proyector de Perfiles Mitutoyo PJ-A3000 Codigo: 302-711A

Calibre Pie de Rey Codigo:

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Notes:

1.-All dimensions in milimeters unless stated.

2.-Minimum notch nominal depth 0.3 mm.

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