

## CERTIFICADO PATRON DE CND

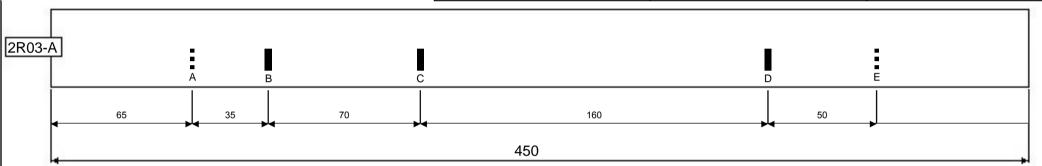
**TEND** 

NDT Reference Standard Certificate



2R03-A

| Datos del Producto Product Information |       |                     |                    |                                   |       |  |  |  |  |
|--|-------|---------------------|--------------------|-----------------------------------|-------|--|--|--|--|
| Diametro [mm]                          | 114,3 | Cliente<br>Client   | REPSOL<br>YPF CUBA | Ciclo<br>Product                  | 65864 |  |  |  |  |
| Espesor [mm]<br>Wall Thickness         | 10,92 | Tratamiento Termico | SI                 | Colada<br><sub>Heat</sub>         | 44632 |  |  |  |  |
| Trazabilidad<br>Traceability           | 0     |                     |                    | Expediente<br>Manufacturing Order |       |  |  |  |  |



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                    | Transversal Interno Transverse ID | 1,00   | 5                                   | ±15                            | 0,628                                   | 0,464                                   | 0,546                                    | 25,40                                    | 25,00                      | 0,614                             | 0,617                             | 0,85                                 | Daniel Carcacha            | 14/04/11      |
| В                    | Transversal Externo Transverse OD | 1,00   | 5                                   | ±15                            | 0,628                                   | 0,464                                   | 0,546                                    | 25,40                                    | 25,00                      | 0,614                             | 0,610                             | 0,85                                 | Daniel Carcacha            | 14/04/11      |
| С                    | Transversal Externo Transverse OD | 1,00   | 5                                   | ±15                            | 0,628                                   | 0,464                                   | 0,546                                    | 25,40                                    | 25,00                      | 0,610                             | 0,613                             | 0,85                                 | Daniel Carcacha            | 14/04/11      |
| D                    | Transversal Externo Transverse OD | 1,00   | 5                                   | ±15                            | 0,628                                   | 0,464                                   | 0,546                                    | 25,40                                    | 25,00                      | 0,614                             | 0,615                             | 0,85                                 | Daniel Carcacha            | 14/04/11      |
| E                    | Transversal Interno Transverse ID | 1,00   | 5                                   | ±15                            | 0,628                                   | 0,464                                   | 0,546                                    | 25,40                                    | 25,00                      | 0,600                             | 0,605                             | 0,85                                 | Daniel Carcacha            | 14/04/11      |

## Instrumentos de Medicion Utilizados:

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

## 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 14/04/2011 Hoja 1/2 Documento TAND-001-05 Vigencia 17/04/2006