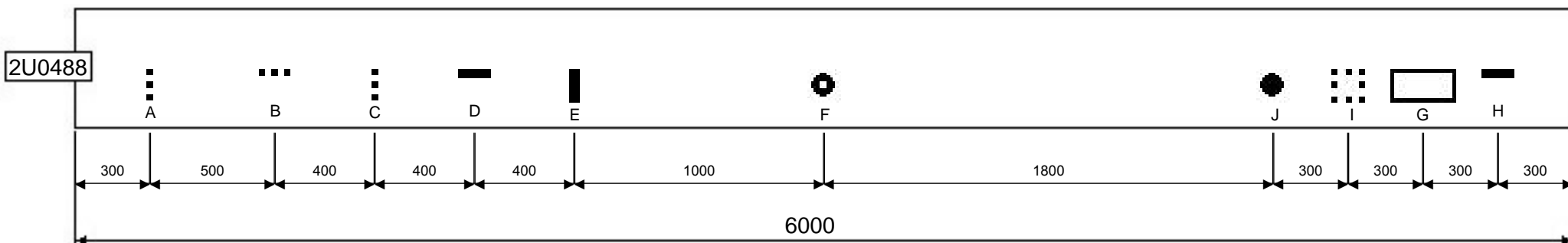


Tubo patrón número
Reference standard #

2U0488

Datos del Producto Product Information

| | | | | | |
|--------------------------------|-------|---------------------------------------|----------------------|-----------------------------------|-----------|
| Diametro [mm] Diameter | 168,3 | Cliente Client | PETROBRAS AMERICA | Ciclo Product | 86606 |
| Espesor [mm] Wall Thickness | 8,7 | Tratamiento Termico Heat Treatment | SI | Colada Heat | 57625 |
| Trazabilidad Traceability | 318 | | | Expediente Manufacturing Order | 5/5445-01 |



Valores Pedidos / Requested Values

Valores Medidos / Measured Values

| Posicion Position | Tipo de Notch Notch Type | Ancho / Diam Max [mm] Max Width / Diam | Profundidad Nominal [%] Depth | Tolerancia [%] Tolerance | Profundidad Maxima [mm] Max Depth | Profundidad Minima [mm] Min Depth | Profundidad Nominal [mm] Nom Depth | Longitud Maxima [mm] Max Length | Longitud [mm] Length | Profundidad A [mm] Depth A | Profundidad B [mm] Depth B | Ancho / Diam [mm] Width / Diam | Responsable Responsible | Fecha Date |
|----------------------|---|--|-------------------------------------|--------------------------------|---|---|--|---------------------------------------|----------------------------|----------------------------------|----------------------------------|--------------------------------------|----------------------------|---------------|
| A | Transversal Interno Transverse ID | 1,00 | 5 | ±15 | 0,500 | 0,370 | 0,435 | 50,00 | 40,40 | 0,416 | 0,446 | 0,84 | Dante Antunez | 10/07/08 |
| B | Longitudinal Interno Longitudinal ID | 1,00 | 5 | ±15 | 0,500 | 0,370 | 0,435 | 50,00 | 47,60 | 0,450 | 0,436 | 0,82 | Dante Antunez | 10/07/08 |
| C | Transversal Interno Transverse ID | 1,00 | 5 | ±15 | 0,500 | 0,370 | 0,435 | 50,00 | 41,30 | 0,409 | 0,453 | 0,81 | Dante Antunez | 10/07/08 |
| D | Longitudinal Externo longitudinal OD | 1,00 | 5 | ±15 | 0,500 | 0,370 | 0,435 | 50,00 | 48,60 | 0,494 | 0,486 | 0,83 | Dante Antunez | 10/07/08 |
| E | Transversal Externo Transverse OD | 1,00 | 5 | ±15 | 0,500 | 0,370 | 0,435 | 50,00 | 42,90 | 0,495 | 0,492 | 0,83 | Dante Antunez | 10/07/08 |
| F | Agujero Pasante Drilled hole | 3,20 | - | - | - | - | - | - | - | - | - | 3,20 | Dante Antunez | 10/07/08 |
| G | Chavetero Grove | 6,00 | 50 | +40-0 | 6,090 | 4,350 | 4,350 | 15,00 | 14,70 | 4,200 | 4,200 | 5,50 | Dante Antunez | 10/07/08 |
| H | Longitudinal Externo longitudinal OD | 1,00 | 5 | ±15 | 0,500 | 0,370 | 0,435 | 50,00 | 48,60 | 0,493 | 0,472 | 0,82 | Dante Antunez | 10/07/08 |

Notas:

- 1.-Todas las dimensiones son en milímetros 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

Tubo patrón número
Reference standard #**2U0488****Datos del Producto**
Product Information

| | | | | | |
|--------------------------------|-------|---------------------------------------|----------------------|-----------------------------------|-----------|
| Diametro [mm] Diameter | 168,3 | Cliente Client | PETROBRAS AMERICA | Ciclo Product | 86606 |
| Espesor [mm] Wall Thickness | 8,7 | Tratamiento Termico Heat Treatment | SI | Colada Heat | 57625 |
| Trazabilidad Traceability | 318 | | | Expediente Manufacturing Order | 5/5445-01 |

| Posicion Position | Tipo de Notch Notch Type | Ancho / Diam Max [mm] Max Width / Diam | Profundidad Nominal [%] Depth | Tolerancia [%] Tolerance | Profundidad Maxima [mm] Max Depth | Profundidad Minima [mm] Min Depth | Profundidad Nominal [mm] Nom Depth | Longitud Maxima [mm] Max Length | Longitud [mm] Length | Profundida d A [mm] Depth A | Profundida d B [mm] Depth B | Ancho / Diam [mm] Width / Diam | Responsable Responsible | Fecha Date |
|----------------------|---------------------------------|--|-------------------------------------|--------------------------------|---|---|--|---------------------------------------|----------------------------|-----------------------------------|-----------------------------------|--------------------------------------|----------------------------|---------------|
| I | Reduccion de espesor interno | 6,40 | 13 | ±0 | 1,088 | 1,088 | 1,088 | 25,40 | 24,00 | - | - | 6,30 | Dante Antunez | 16/03/09 |
| J | Cono Interno ID Cone | 25,00 | 30 | ±15 | 3,002 | 2,219 | 2,610 | - | - | 3,000 | - | 21,00 | Dante Antunez | 16/03/09 |

Instrumentos de Medicion Utilizados:**Proyector de Perfiles Mitutoyo PJ-A3000 Codigo: 302-711A****Calibre Pie de Rey Codigo:**

Notas:

- 1.-Todas las dimensiones son en milímetros 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**