

**CERTIFICADO DE CALIDAD  
 INSPECTION CERTIFICATE**  
 (DIN EN 10204:2004E - ISO 10474 3.1.B)

Vendido a: **PLESA ANAHUAC Y CIA. S.A. DE C.V.** Pedido del Cliente No: 2327 -  
 Sold to: **PLESA ANAHUAC Y CIA. S.A. DE C.V.** Customers Order No: 2327 -  
 Especificaciones y Grados / Standard or Specification and Steel Grade Dimensiones y tolerancias / Dimension and tolerances  
 Seamless Fittings according to ASTM A 234-97, A 234-05a, NACE MR 01-75-2003 ASME B 16.9 - 2003 and ASME B 16.28 - 1994  
 Conform to ASME II Ed. 2001 ASME SA-234, Grade WPP

Numero: 17171  
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Lista de Empaque: 8774 Fecha/Date: 4 de Enero de 2007  
 Packing List: 8774

Factural/Invoice: Bocas / Ends  
 Biselado / Bevelled ends

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION			PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C					
ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
34	QHS	5	TEE RED. 4 X 2 CED-XS	313	469	48	156					
35	KYS	10	TEE RED. 4 X 3 CED-XS	313	469	48	156					

**ANALISIS QUIMICO / CHEMICAL ANALYSIS**

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	QHS	202282	0.300	0.170	0.640	0.011	0.001	0.250	0.060	0.100	0.010	0.040	0.001	0.001
HF	KYS	20282	0.300	0.170	0.640	0.011	0.001	0.250	0.060	0.100	0.010	0.040	0.001	0.001

The Products described herein were produced in accordance with the above referenced specification and are identified with the "R" which is permanently marked on each fitting.

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son verdaderos o una copia fiel de los certificados enviados por el Fabricante y/o el proveedor de Materia Prima (Tuberia Sin Costura) conforme ASTM A106 Grado B con N°. We certify that result of chemical analysis and mechanical test are true and correct copy of the test certificate issued by the manufacturer and/or supplier. Raw material (Seamless Pipe) certs conform to ASTM A106 Grade B N°. 42376 42230

\*Este material cumple con los requerimientos especificados en la orden\*  
 \*The material of this certificate heat number mentioned above is in compliance with the requirements specified in the order.\*

Notas: Hot formed fittings in a range from 620°C to 980°C, cooled in still air.  
 Cold formed normalized at 940°C max.  
 Holding time 10'.  
 Visual dimensional check. Satisfactory.  
 Inspección Dimensional Satisfactoria.  
 Visual dimensional check. Satisfactory.  
 Inspección Dimensional Satisfactoria.  
 CF: FORMADO EN FRIOCALD FORMED

**Jefe de Calidad:**  
**Quality Manager:** ING. JOSE MARTINEZ MACIAS  
 CC-008