

**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE**

01.75 ed. 02 - Conform to ASME II Ed. 200

Pedido del Cliente No: 3440, 3441

Customers Order No:

Dimensiones y tolerancias / Dimension and tolerances

ASME B 16.9 and ASME B 16.28 edition 2001

Biselado / Bevelled ends

Numero: Number:	Página/Página:
11581	1 DE 1
Lista de Embarque:	Bocas / Ends
6536	
Fecha/Date:	13 de Febrero de 2004

Vendido a: VALVULAS Y TUBOS DE MEXICO
 Especificaciones y Grados / Standard or Specification and Steel Grade
 Seamless Fittings according to ASTM/ASME ASA 234 WPB - NACE MR
 01.75 ed. 02 - Conform to ASME II Ed. 2001

ART. 3M	COLADA HEAT CODE	CANTIDA QUANTITY	DESCRIPCION / DESCRIPTION	PRUEBAS MECANIZAS / MECHANICAL TEST			PRUEBA DE IMPACTO -0°C / IMPACT TEST -0°C				
				ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPURA TENSILE STRENGTH (Mpa)	ELONG. %Z ²	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules
1	TN05	3	RED. CONC. 14 X 12 CED STD	328	478	35	144				
2	TN05	5	RED. CONC. 14 X 6 CED STD	315	486	42	144				
3	TN05	5	TEE 14 CED STD	339	474	50	141				
4	TCS	200	TEE 2 CED STD	338	489	36	197				
5	R25	150	TEE 3 CED STD	325	478	25	121				
6	RUS	40	TEE 3 CED XS	309	465	40	132				
7	TAJ6	100	TEE 4 CED STD	311	487	41	129				
8	SH5	40	TEE 4 CED XS	346	481	37	111				
9	TBX6	100	TEE 6 CED STD	308	474	44	124				

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS												
			%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb	
CF	TN05	98665	0.326	0.190	0.660	0.010	0.003	0.290	0.050	0.065	0.046	0.030	0.000	0.000	0.000
CF	TN05	97212	0.314	0.180	0.670	0.008	0.001	0.270	0.040	0.070	0.034	0.040	0.000	0.000	
CF	TN05	10733	0.325	0.180	0.670	0.009	0.003	0.270	0.060	0.081	0.064	0.040	0.000	0.000	
CF	TCS	EG98CO	0.308	0.170	0.740	0.008	0.006	0.250	0.040	0.040	0.010	0.020	0.001	0.000	
CF	R25	EG02LF	0.310	0.180	0.710	0.009	0.004	0.210	0.030	0.010	0.010	0.020	0.010	0.000	
CF	RUS	KJ02RW	0.309	0.170	0.740	0.006	0.004	0.210	0.050	0.020	0.010	0.030	0.001	0.000	
CF	TAJ6	L3369	0.320	0.180	0.690	0.015	0.001	0.270	0.060	0.060	0.036	0.030	0.000	0.000	
CF	SH5	BM02PP	0.331	0.190	0.700	0.012	0.006	0.210	0.070	0.020	0.020	0.050	0.010	0.000	
CF	TBX6	14495	0.309	0.170	0.650	0.012	0.003	0.270	0.070	0.093	0.036	0.050	0.000	0.000	

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son verdaderas o una copia fiel de los certificados enviados por el Fabricante o el proveedor de Materia Prima 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 certs N°.

02019474 02018022 03010841
 0468 0468 0468
 03017149 0468 03020922

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:
 Formado en caliente a 780°C/1450°C, enfriado al aire.
 Formed in the normalized to 540°C max.
 Tiempo de permeancia IV
 Holding time IV

Inspeccion Dimensional Satisfactoria
 Visual dimensional satisfactory
 CF FORMADO EN CALIENTE/NOT FORME

Notas:
 Hot formed fittings in a range from 780°C to 1450°C, cooled in still air.
 Cold formed normalized at 540°C max
 Holding time IV

Visual dimensional satisfactory
 Visual dimensional satisfactory
 CF FORMADO EN CALIENTE/NOT FORME

Gerente de Aseguramiento de Calidad: Quality Assurance Manager:

 ING. JOSÉ MARTÍNEZ MACÍAS

Empresas Riga, S.A. De CV
 Carr. Mty-Laredo Km. 24.2
 Cd. de Flores, N.L. 65550
 Tel: (81) 83-44-88-60
 Fax: (81) 83-44-88-01

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