



Industrial de Valvulas, S.A de C.V.  
 Av. de La Industria Lote 16 Fracc. Industrial El Trebol  
 Tepotzotlan, Estado de Mexico C.P. 54600

(Numero) Number  
 (Fecha) Date

V074B369  
 09/05/2008

# QUALITY ASSURANCE CERTIFICATE OF COMPLIANCE

(ACCORDING TO EN10204 TYPE 3.1)  
 ASSEGURAMIENTO DE CALIDAD CERTIFICADO DE CUMPLIMIENTO

WE CERTIFY THAT THE PRODUCT LISTED BELOW WAS DESIGNED, MANUFACTURED AND TESTED ACCORDING TO OUR QUALITY SYSTEM AND REQUIREMENTS GIVEN IN ONE OR MORE OF THE FOLLOWING STANDARDS LAST EDITION:

(CERTIFICAMOS QUE EL PRODUCTO LISTADO ABAJO FUE DISEÑADO, FABRICADO Y PRABADO DE ACUERDO CON NUESTRO SISTEMA DE CALIDAD Y CON REQUISITOS ESTABLECIDOS EN UNO O MAS DE LOS SIGUIENTES ESTANDARES ULTIMA EDICION.)

- API 598 - VALVE INSPECTION AND TESTING
- API 599 - METAL PLUG VALVES - FLANGED, THREADED AND WELDING
- ANSI B16-10 - FACE TO FACE AND END TO END DIMENSIONS OF VALVES
- ANSI B16-34 - VALVES - FLANGED, THREADED AND WELDING ENDS
- MSS-SP61 - PRESSURE TESTING OF STEEL VALVES
- API 6D - PIPELINE VALVES - GATE, PLUG, BALL AND CHECK
- API 600 - STEEL GATE VALVES, FLANGED AND WELDING ENDS
- ANSI B16-11 - FORGED FITTINGS, SOCKET - WELDING AND THREADED
- API 602 - COMPACT STEEL GATE VALVES - FLANGED, THREADED, WELDING AND EXTENDED - BODY ENDS

Part No. **CB1603A2AAB**  
 (Codigo) **16" Fig. 8622 F A105, TH0000B**  
 Description **STEEL BALL VALVE**  
 (VALVULA ESFERA DE ACERO)

MANUFACTURED TO MEET NACE MR-01-75 REQUIREMENTS FIRE TEST API 6FA, API 07, REV 2003 (VALVULA SERVICIO NACE MR-01-75/SISO S156 ED 2003 PRUEBA DE FUEGO API 6FA, API 607)

<b>PRESSURE TEST</b> (PRUEBAS DE PRESION)	<b>SHELL</b> (CASCO)	<b>BACK</b> (SEAL)	<b>SIDE</b> (LADO)
<b>HYDROSTATIC (PSI)</b> (HIDROSTATICA)	2225		1 1630 2 1630
<b>PNEUMATIC (PSI)</b> (NEUMATICA)			1 80 2 80

**MECHANICAL TESTS (PROP. MECANICAS)**

**CHEMICAL COMPOSITION (%)**      **COMPOSICIÓN QUIMICA (%)**

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	C	Mn	P	S	SI	NI	Cr	Mo	Cu	V	Cb	TENS KPSI CVN/6	YIELD KPSI 1ST	ELG %	REDD %	BHN AVG
BALL BOLA	B130	ASTM A-105N	0.220	0.845	0.016	0.007	0.270	0.060	0.140	0.020	0.185	0.012		77.14	45.24	30	40	170
BODY CUERPO	06010153	ASTM A-105N	0.200	0.870	0.023	0.007	0.230	0.070	0.120	0.030	0.100	0.003		73.58	49.64	35	63	148
END1 EXTREMO1	06010153	ASTM A-105N	0.200	0.870	0.023	0.007	0.230	0.070	0.120	0.030	0.100	0.003		73.58	49.64	35	63	148
END2 EXTREMO2	06010153	ASTM A-105N	0.200	0.870	0.023	0.007	0.230	0.070	0.120	0.030	0.100	0.003		73.58	49.64	35	63	148

FAC10-21 REV "3"

CERTIFICADO POR:  
 ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:  
 QUALITY ASSURANCE

SANDRA RUIZ