



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

(Numero) Number V064B2480  
 (Fecha) Date 06/11/2007

## QUALITY ASSURANCE CERTIFICATE OF COMPLIANCE

### ASEGURAMIENTO 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:  
 (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.)

- VALVE INSPECTION AND TESTING
- METAL PLUG VALVES - FLANGED, THREADED AND WELDING
- FACE TO FACE AND END TO END DIMENSIONS OF VALVES
- VALVES - FLANGED, THREADED AND WELDING ENDS
- PRESSURE TESTING OF STEEL VALVES
- PIPELINE VALVES - GATE, PLUG, BALL ANF CHECK
- STEEL GATE VALVES, FLANGED AND WELDING ENDS
- FORGED FITTINGS, SOCKET - WELDING AND THREADED
- COMPACT STEEL GATE VALVES - FLANGED, THREADED, WELDING AND EXTENDED - BODY ENDS

**Part No. CB0403A1AAB**  
 (Codigo)  
**Description 4" Fig. 8612 F A105, TH0000B**  
 Descripción STEEL BALL VALVE (VALVULA ESFERA DE ACERO)  
 MANUFACTURED TO MEET NACE MR-01-75 REQUIREMENTS FIRE TEST API 6FA, API 607.  
 REV 2003 (VALVULA SERVICIO NACE MR-01-75 PRUEBA DE FUEGO API 6FA, API 607)

PRESSURE TEST (PRUEBAS DE PRESION)	SHELL (CASCO)	BACK (SEAT)	SIDE (LADO)
HYDROSTATIC (PSI) (HIDROSTATICA)	2220		1630 1630
PNEUMATIC (PSI) (NEUMATICA)			80 80

### CHEMICAL COMPOSITION (%)

ITEM (PARTS)	HEAT No. (COLDAS)	MATERIAL (ASTM)	COMPOSICIÓN QUÍMICA (%)											MECHANICAL TESTS (PROP. MECANICAS)						
			C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	W	TENS KPSI (CNSI)	YIELD KPSI (IST)	ELG % 2ND	RED % 3RD	BHN AVG		
BALL BOLA	B067	ASTM A-105N	0.220	0.830	0.009	0.004	0.230	0.040	0.080	0.031	0.130	0.007				81.10	49.29	35	52	160
BODY CUERPO	063-2041	ASTM A-105N	0.210	0.790	0.025	0.023	0.200	0.030	0.051	0.001	0.030	0.001				76.00	53.99	38	66	171
END1 EXTREMO1	063-2041	ASTM A-105N	0.210	0.790	0.025	0.023	0.200	0.030	0.051	0.001	0.030	0.001				76.00	53.99	38	66	171
END2 EXTREMO2	063-2041	ASTM A-105N	0.210	0.790	0.025	0.023	0.200	0.030	0.051	0.001	0.030	0.001				76.00	53.99	38	66	171

CERTIFICADO POR: ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:   
 SANDRA RUIZ

QUALITY ASSURANCE