



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

(Numero) Number V064B4598  
 (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)

- 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. CB0401A1AAB**  
 (Codigo)  
**4" Fig. 8112 F A105, TH0000B**  
 Description 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)	430		313 313
PNEUMATIC (PSI) (NEUMATICA)			80 80

### MECHANICAL TESTS (PROP. MECANICAS)

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	CHEMICAL COMPOSITION (%)											COMPOSICION QUIMICA (%)											
			C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	W	TENS KPSI CVM@	YIELD KPSI 1ST	ELG % 2ND	RED % 3RD	BHN AVG							
BODY CUERPO	506-476	ASTM A-105N	0.220	0.800	0.022	0.025	0.230	0.180	0.150	0.001	0.130	0.001													
WEDGE DISCO	B078	ASTM A-105N	0.220	0.800	0.013	0.004	0.250	0.090	0.200	0.005	0.140	0.002													
END1 EXTREMO1	506-476	ASTM A-105N	0.220	0.800	0.022	0.025	0.230	0.180	0.150	0.001	0.130	0.001													
END2 EXTREMO2	506-476	ASTM A-105N	0.220	0.800	0.022	0.025	0.230	0.180	0.150	0.001	0.130	0.001													

FAC10-21 REV 22

CERTIFICADO POR:  
 ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:  
 QUALITY ASSURANCE  
  
 Sandra Ruiz