



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 **V074B915**  
 (Fecha) Date **28/03/2008**

## 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:  
 ESTANDARES ULTIMA EDICIÓN.)

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

**Part No. CB0203A1AAB**  
 (Codigo) **2<sup>o</sup> Fig. 8612 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 (SEAL)	SIDE (LADO)	
			1	2
HYDROSTATIC (PSD) (HIDROSTATICA)	2225		1630	1630
PNEUMATIC (PSD) (NEUMATICA)			80	80

### CHEMICAL COMPOSITION (%)

ITEM (PARTE)	HEAT No. (COTADA)	MATERIAL (ASTM)	COMPOSICIÓN QUIMICA (%)																			
			C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	Cb									
BALL BOLA	B069	ASTM A-105N	0.205	0.760	0.010	0.002	0.200	0.080	0.240	0.010	0.260	0.006										
BODY CUERPO	07-2-111	ASTM A-105N	0.200	0.830	0.015	0.006	0.250	0.100	0.110	0.010	0.160	0.001										
END1 EXTREMO1	07-2-114	ASTM A-105N	0.190	0.860	0.017	0.005	0.240	0.090	0.150	0.010	0.160	0.001										
END2 EXTREMO2	07-2-114	ASTM A-105N	0.190	0.860	0.017	0.005	0.240	0.090	0.150	0.010	0.160	0.001										

### MECHANICAL TESTS (PROP. MECANICAS)

TENS	YIELD	ELG	RED	BHN	
					KPSI
	1ST	2ND	3RD		
	76.20	44.99	36	46	162
	72.86	54.43	33	72	160
	73.29	50.94	33	58	152
	73.29	50.94	33	58	152

CERTIFIED BY:  

 Sandra Ruiz