



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  
 (Fecha) Date

V05BA11305  
 29/10/2007

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

#### Part No. CB0601A2AAB

#### (Código) 6" Fig. 8122 F A105, THKK00B

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)  
 (VALVULA CON RECUBRIMIENTO EXTERIOR DE PINTURA PARA AMBIENTE MARINO)

PRESSURE TEST (PRUEBAS DE PRESION)	SHELL (CASCO)	BACK (SEAT)	SIDE (LADO)	
			1	2
HYDROSTATIC (PSD) (HIDROSTATICA)	430		313	313
PNEUMATIC (PSD) (NEUMATICA)			80	80

#### CHEMICAL COMPOSITION (%)

#### COMPOSICIÓN QUÍMICA (%)

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	W	TENS KPSI CVN <sub>60</sub>	YIELD KPSI 1ST	ELG %	RED %	BHN AVG
BALL BOLA	B076	ASTM A-105N	0.210	0.850	0.024	0.010	0.290	0.080	0.240	0.010	0.200	0.006		73.58	45.28	36	46	160
BODY CUERPO	053-1257	ASTM A-105N	0.200	0.720	0.014	0.013	0.190	0.040	0.100	0.002	0.040	0.001		78.23	56.46	28	53	156
END1 EXTREMO1	053-1257	ASTM A-105N	0.200	0.720	0.014	0.013	0.190	0.040	0.100	0.002	0.040	0.001		78.23	56.46	28	53	156
END2 EXTREMO2	053-1257	ASTM A-105N	0.200	0.720	0.014	0.013	0.190	0.040	0.100	0.002	0.040	0.001		78.23	56.46	28	53	156

#### MECHANICAL TESTS (PROP. MECANICAS)