



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

(Numero) Number V07C8448  
 (Fecha) Date 28/09/2007

## 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 PROBADO 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 ANF CHECK
- API 600 - STEEL GATE VALVES, FLANGED AND WELDING ENDS
- ANSI B16-111 - FORGED FITTINGS, SOCKET - WELDING AND THREADED
- API 602 - COMPACT STEEL GATE VALVES - FLANGED, THREADED, WELDING AND EXTENDED - BODY ENDS

Part No. **AC101A12MAB**

(Codigo) **10" Fig. 5202 F 3HF WCB, API TRIM No.12 790000M**  
 Descripción **CAST STEEL GATE VALVE (VALVULA COMPUERTA DE ACERO FUNDIDO)**

MANUFACTURED TO MEET NACE MR-01-75-2003 REQUIREMENTS \*TS AND LOW FUGITIVE EMISSIONS CONTROL  
 (VALVULA SERVICIO NACE MR-01-75 \*Y CONTROL DE EMISIONES FUGITIVAS 50 PPM'S)

PRESSURE TEST (PRUEBAS DE PRESION)	SHELL (CASCO)	BACK (SEAT)	SIDE (LADO)	
HYDROSTATIC (PSI) (HIDROSTATICA)	450	450	1	2
PNEUMATIC (PSI) (NEUMATICA)			80	80

### CHEMICAL COMPOSITION (%)

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	W	MECHANICAL TESTS (PROP. MECANICAS)				
BONNET BONETE	WH21371	ASTM A-216/WCB	0.205	0.922	0.027	0.017	0.532	0.052	0.056	0.016	0.025	0.001		TENS KPSI CVM/g	YIELD KPSI 1ST	ELG % 2ND	RED % 3RD	BHN AVG
BODY CUERPO	WH2151	ASTM A-216/WCB	Normalized to (Normalizado a) 930 °C	0.187	0.969	0.016	0.017	0.492	0.023	0.022	0.039	0.001		70.91	37.85	27	42	159
WEDGE DISCO	WH20265	ASTM A-216/WCB	Normalized to (Normalizado a) 930 °C	0.211	0.969	0.030	0.019	0.510	0.048	0.048	0.020	0.002		73.66	42.92	27	47	164
			Normalized to (Normalizado a) 920 °C					Temper to (Temple a) 650 °C						72.50	46.98	31	59	158

FACI0-21 REV "2"

CERTIFICADO POR: ASEGURAMIENTO DE CALIDAD

CERTIFIED BY: QUALITY ASSURANCE

  
 Sandra Ruiz