



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 V07C8439  
 (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 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

API 598  
 API 599  
 ANSI B16-10  
 ANSI B16-34  
 MSS-SP61

API 6D  
 API 600  
 ANSI B16-11  
 API 602

**Part No. AC101A12MAB**  
 (Codigo)  
**Description 10" Fig. 5202 F 3HF WCB, API TRIM No.12 790000M**  
 Descripción  
**CAST STEEL GATE VALVE**  
**(VALVULA COMPUERTA DE ACERO FUNDIDO)**  
 MANUFACTURED TO MET NACE MR-01-75-2003 REQUIREMEN \*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	1 315	2 315
PNEUMATIC (PSI) (NEUMATICA)			80	80

### CHEMICAL COMPOSITION (%)

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	COMPOSICIÓN QUIMICA (%)															
			C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	W	TENS (KPSI C/INCH)	YIELD (KPSI 1ST)	ELG (% 2ND)	RED (% 3RD)	BHN (LADO) AVG
BONNET	WH19175	ASTM A-216/WCB	0.203	0.805	0.026	0.022	0.483	0.044	0.044	0.013	0.021	0.001		84.68	38.71	33	43	158
BONETE			Normalized to (Normalizado a) 930 °C															
BODY	WH21454	ASTM A-216/WCB	0.201	0.909	0.021	0.011	0.464	0.052	0.044	0.018	0.020	0.003		80.33	53.36	34	57	150
CUERPO			Normalized to (Normalizado a) 920 °C															
WEDGE	WH2314	ASTM A-216/WCB	0.186	0.912	0.024	0.017	0.535	0.019	0.045	0.019	0.030	0.006		72.36	45.68	29	49	162
DISCO			Normalized to (Normalizado a) 920 °C															
			Temper to (Temple a) 650 °C															

### MECHANICAL TESTS (PROP. MECANICAS)

FACI0-21 REV "2"

CERTIFICADO POR:  
 ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:  
 QUALITY ASSURANCE