



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

(Numero) Number V07C8955
 (Fecha) Date 09/11/2007

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 ANF 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. AC081A12MAB

(Codigo) 8" Fig. 5202 F 3HF WCB, API TRIM No.12 790000M

Description CAST STEEL GATE VALVE
 (VALVULA COMPUERTA DE ACERO FUNDIDO)
 MANUFACTURED TO MEET 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)	
			1	2
HYDROSTATIC (PSI) (HIDROSTATICA)	450	450	315	315
PNEUMATIC (PSI) (NEUMATICA)			80	80

MECHANICAL TESTS (PROP. MECANICAS)

CHEMICAL COMPOSITION (%)

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	COMPOSICION QUIMICA (%)											TENS	YIELD	ELG	RED	BHN
			C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	W	KSI CVN ₅₀	KSI 1ST	% 2ND	% 3RD	AVG
BONNET	WH22305	ASTM A-216/WCB	0.208	0.943	0.014	0.014	0.498	0.024	0.044	0.014	0.040	0.003		74.96	44.08	26	50	164
BONNET	WH22305	ASTM A-216/WCB	Normalized to (Normalizado a) 920 °C															
BODY	WH22232	ASTM A-216/WCB	0.188	0.879	0.017	0.014	0.439	0.019	0.041	0.007	0.032	0.002		74.38	46.25	27	45	166
BODY	WH22232	ASTM A-216/WCB	Normalized to (Normalizado a) 920 °C															
WEDGE	WH21672	ASTM A-216/WCB	0.205	0.899	0.030	0.024	0.481	0.046	0.058	0.019	0.024	0.006		79.46	47.13	32	46	155
WEDGE	WH21672	ASTM A-216/WCB	Normalized to (Normalizado a) 920 °C															
DISCO			Temper to (Temple a) 650 °C															

FAC10-21 REV "2"

CERTIFICADO POR:
 ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:
 QUALITY ASSURANCE

Sandra Ruiz