



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

(Numero) Number V07C29035
 (Fecha) Date 27/09/2007

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.)

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|-------------|---|-------------|---|
| 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. **AC041A09MAA**

Description (Codigo) **4" Fig. 5202 F A WCB, API TRIM No. 9 7900000**

Description (DESCRIPCION)
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)

TEST	VALUE	TEST	VALUE	TEST	VALUE
PRESSURE TEST (PRUEBAS DE PRESSION)		SHELL (CASCO)	450	BACK (SEAT)	450
HYDROSTATIC (PSI) (HIDROSTATICA)	450			SIDE (LADO)	N/A
PNEUMATIC (PSI) (NEUMATICA)	80				80

CHEMICAL COMPOSITION (%)

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	COMPOSICION QUIMICA (%)															
			C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	W	TENS (KPSI CVN/D)	YIELD (KPSI 1ST)	ELG (% 2ND)	RED (% 3RD)	BHN AVG
BONNET BONETE	WH16439	ASTM A-216/WCB	0.205	0.970	0.028	0.013	0.491	0.052	0.068	0.019	0.024	0.006		73.51	44.51	31	54	156
BODY CUERPO	WH16434	ASTM A-216/WCB	0.210	0.930	0.033	0.018	0.469	0.223	0.032	0.030	0.021	0.006		72.70	46.98	34	55	158
WEDGE DISCO	WH12666	ASTM A-216/WCB	0.194	0.934	0.030	0.011	0.487	0.041	0.029	0.026	0.027	0.010	0.000	74.53	47.56	25	50	153

MECHANICAL TESTS (PROP. MECANICAS)

FACIO-21 REV "2"

CERTIFICADO POR: ASEGURAMIENTO DE CALIDAD

CERTIFIED BY: 
 Sandra Ruiz

QUALITY ASSURANCE