



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

(Numero) Number V07C33556
 (Fecha) Date 08/11/2007

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 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 B16-11 - FORGED FITTINGS, SOCKET - WELDING AND THREADED
- API 602 - COMPACT STEEL GATE VALVES - FLANGED, THREADED, WELDING AND EXTENDED - BODY ENDS

Part No. AC021A08MAA

Description 2 1/2" Fig. 5202 F UT WCB, API TRIM No.8 8300000

CAST STEEL GATE VALVE
 (VALVULA COMPUERTA DE ACERO FUNDIDO)
 VALVE WITH LOW EMISSION CONTROL
 (VALVULA SUMINISTRADA CON CONTROL DE EMISIONES FUGITIVAS A 50 PPM'S MAX)

TEST	REQUIREMENT	ACTUAL	REMARKS
PRESSURE TEST (PRUEBAS DE PRESION)	SHELL (CASCO)	450	450
	BACK (SEAT)	450	450
	SIDE (LADO)	1	2
HYDROSTATIC (PSD) (HIDROSTATICA)		450	N A
PNEUMATIC (PSD) (NEUMATICA)		80	80

CHEMICAL COMPOSITION (%)

ITEM (PARTE)	HEAT No. (COADAN)	MATERIAL (ASTM)	C	Mn	P	S	SI	Ni	Cr	Mo	Cu	V	W	TENS (KPSI CVM@)	YIELD (KPSI 1ST)	ELG (%) 2ND	RED (%) 3RD	BHN AVG
BONNET	WH13293	ASTM A-216/WCB	0.189	0.973	0.029	0.023	0.529	0.030	0.040	0.020	0.040	0.001	0.000	75.40	45.96	27	48	168
BONNET	WH15852	ASTM A-216/WCB	0.219	0.976	0.024	0.015	0.469	0.049	0.042	0.020	0.023	0.001		86.71	41.91	30	46	152
CUERPO	LA984	ASTM A-216/WCB	0.242	0.723	0.009	0.020	0.423	0.085	0.231	0.002	0.094	0.006		76.39	42.83	29	40	150
WEDGE DISCO			Normalized to (Normalizado a) 930 °C															
			Temper to (Temple a) 650 °C															
			Cooled in air:(Cooled in air: (Enfr)															
			Cooled in air:(Cooled in air: (Enfr)															

MECHANICAL TESTS (PROP. MECANICAS)

CERTIFICADO POR: ASEGURAMIENTO DE CALIDAD

CERTIFIED BY: QUALITY ASSURANCE

Sandra Ruiz