



**WALWORTH**  
Since 1842

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  
(Fecha) Date

V07C33470  
14/11/2007

## 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 AND 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

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

Description 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
HYDROSTATIC (PSD) (HIDROSTATICA)	BACK (SEAT)	450	N/A
PNEUMATIC (PSD) (NEUMATICA)	SIDE (LADO)	80	80

### MECHANICAL TESTS (PROP. MECANICAS)

CHEMICAL COMPOSITION (%)	COMPOSICIÓN QUIMICA (%)									
	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V

ITEM (PARTE)	HEAT No. (COLADAN)	MATERIAL (ASTM)	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	W	TENS (KPSI CVN@)	YIELD (KPSI 1ST)	ELG (% 2ND)	RED (% 3RD)	BHN (LADO) AVG
BONNET BONETE	WH13258	ASTM A-216/WCB	0.197	0.956	0.029	0.022	0.496	0.040	0.020	0.010	0.050	0.001	0.000	74.24	46.83	28	49	162
BODY CUERPO	WH13247	ASTM A-216/WCB	0.194	0.850	0.027	0.023	0.466	0.030	0.030	0.020	0.040	0.001	0.000	74.96	46.25	25	49	168
WEDGE DISCO	1A984	ASTM A-216/WCB	0.242	0.723	0.009	0.020	0.423	0.085	0.231	0.002	0.094	0.006	0.000	76.39	42.83	29	40	150

Normalized to (Normalizado a) 930 °C Temper to (Temple a) 650 °C

FAC10-21 REV "2"

CERTIFICADO POR: ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:

QUALITY ASSURANCE