



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

(Numero) Number  
 (Fecha) Date

V07C36002  
 10/12/2007

## 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 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. AC031A08MAA

(Codigo) 3" Fig. 5202 F UT WCB, API TRIM No.8 7900000

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 (SEAL)	SIDE (LADO)
HYDROSTATIC (PSID) (HIDROSTATICA)	450	450	N A N A
PNEUMATIC (PSD) (NEUMATICA)			80 80

### MECHANICAL TESTS (PROP MECANICAS)

### CHEMICAL COMPOSITION (%)

### COMPOSICION QUIMICA (%)

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	W	TENS KPSI CVN <sub>60</sub>	YIELD KPSI 1ST	ELG %	RED %	BHN AVG
BONNET	WH18782	ASTM A-216/WCB	0.192	0.877	0.021	0.011	0.461	0.036	0.060	0.016	0.019	0.001		76.27	49.73	28	51	161
BONNET	WH17495	ASTM A-216/WCB	0.190	0.988	0.024	0.014	0.463	0.045	0.057	0.024	0.019	0.005		79.90	44.37	32	54	153
WEDGE DISCO	WH18465	ASTM A-217/CA15	0.118	0.826	0.026	0.017	0.427	0.067	12.810	0.007	0.023	0.001		100.78	68.59	32	57	304

FAC10-21 REV "2"

CERTIFICADO POR:  
 ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:  
 QUALITY ASSURANCE

Sandra Ruiz