



INDUSTRIAL DE VALVULAS, S.A DE C.V.
 CALIDAD Y SEGURIDAD

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

(Numero) Number V09C13373
 (Fecha) Date 15/04/2009

QUALITY ASSURANCE CERTIFICATE OF COMPLIANCE

(ACCORDING TO EN10204 TYPE 3.1)
 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 LAST EDITION:

(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 ULTIMA EDICIÓN.)

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|-------------|---|-------------|---|
| API 598 | - VALVE INSPECTION AND TESTING | API 6D | - PIPELINE VALVES - GATE, PLUG, BALL AND 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. AC031A08MAA83MW000
 (Código)
Description 3" Fig. 5202 F UT WCB, API TRIM No.8 83MW000
 Descripción CAST STEEL GATE VALVE 150 PSI
 (VALVULA COMPUERTA DE ACERO FUNDIDO 150 PSI)

VALVE WITH LOW EMISSION CONTROL (VALVULA SUMINISTRADA CON CONTROL DE EMISIONES FUGITIVAS A 50 PPM'S MAX)
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PRESSURE TEST (PRUEBAS DE PRESION)	SHELL (CASCO)	BACK (SEAT)	SIDE (LADO)	
			1	2
HYDROSTATIC (PSI) (HIDROSTATICA)	450	450	N A	N A
PNEUMATIC (PSI) (NEUMATICA)			80	80

MECHANICAL TESTS (PROP. MECANICAS)

CHEMICAL COMPOSITION (%) **COMPOSICIÓN QUIMICA (%)**

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	CHEMICAL COMPOSITION (%)										TENS KPSI CVN@	YIELD KPSI 1ST	ELG % 2ND	RED % 3RD	BHN AVG
			C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V					
BODY CUERPO	WH20878	ASTM A-216/WCB	0.205	0.983	0.027	0.045	0.478	0.007	0.001	0.005	0.026	0.001	86.86	52.06	32	48	160
			Normalized to (Normalizado a) 930 °C Temper to (Temple a) 650 °C Cooled in air.(Cooled in air. (Enfr)														
BONNET BONETE	WH28734	ASTM A-216/WCB	0.194	0.895	0.029	0.028	0.490	0.006	0.035	0.087	0.026	0.003	83.52	43.50	34	49	161
			Normalized to (Normalizado a) 930 °C Temper to (Temple a) 650 °C Cooled in air.(Cooled in air. (Enfr)														
WEDGE DISCO	D2811	ASTM A-217/CA15	0.110	0.710	0.012	0.015	0.900	0.540	12.400	0.030	0.044	0.002	99.62	70.62	26	46	271
			Normalized a (Normalizado to) 970 °C Temple a (Temper to) 630 °C Enfriado en aire.(Enfriado en aire. (C)														

FAC10-21 REV "3"

CERTIFICADO POR: ASEGURAMIENTO DE CALIDAD CERTIFIED BY: QUALITY ASSURANCE

JESSICA GARCIA