



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. 34600

(Numero) Number
 (Fecha) Date

V08C21494
 03/09/2008

QUALITY ASSURANCE CERTIFICATE OF COMPLIANCE

(ACCORDING TO EN10204 TYPE 3.1)

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 EDICION)

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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. AC031A08MAA8300000

(Codigo) 3" 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 SEMINSTRADA CON CONTROL DE EMISIONES FUGITIVAS A 50 PPM'S MAX)

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

CHEMICAL COMPOSITION (%)

COMPOSICIÓN QUÍMICA (%)

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	Cb
BONNET BONETE	WH22766	ASTM A-216 WCB	0.201	0.983	0.019	0.014	0.488	0.031	0.046	0.044	0.034	0.002	
BODY CUERPO	WH22649	ASTM A-216 WCB	Normalized to (Normalizado a) 930 °C	0.203	0.916	0.025	0.008	0.469	0.020	0.020	0.055	0.004	
WEDGE DISCO	D3264	ASTM A-217 CA15	Normalized to (Normalizado a) 930 °C	0.090	0.750	0.014	0.012	0.940	0.310	12.460	0.036	0.001	
			Normalized a (Normalizado to) 970 °C								Enfriado en aire. (Enfriado en aire. (C)		

MECHANICAL TESTS (PROP. MECANICAS)

TENS (KPSI)	YIELD (KPSI)	ELG (% 2ND)	RED (% 3RD)	BHN (AVG)
76.42	46.11	25	47	164
78.44	41.18	35	54	153
99.03	70.61	26	47	275

JESSICA GARCIA