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

(Numero) Number
(Fecha) Date

V07C35988
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 PRUBADO DE ACUERDO CON NUESTRO SISTEMA DE CALIDAD Y CON REQUISITOS ESTABLECIDOS EN UNO O MAS DE LOS SIGUIENTES ESTANDARES.)

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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. 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 SO PPM'S)

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

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 ₆₀)	YIELD (KPSI 1ST)	ELG (% 2ND)	RED (% 3RD)	BHN (AVG)
BONNET BONETE	WH20362	ASTM A-216/WCB	0.199	0.952	0.025	0.011	0.429	0.043	0.046	0.018	0.022	0.002		74.24	44.95	34	46	162
BODY CUERPO	XS410	ASTM A-216/WCB	0.180	0.810	0.025	0.026	0.410	0.060	0.090	0.021				75.54	44.22	25	43	162
WEDGE DISCO	WH81155	ASTM A-217/CA15	0.127	0.674	0.037	0.019	0.613	0.850	13.030	0.023	0.016	0.001		102.37	74.82	25	46	287

MECHANICAL TESTS (PROP. MECANICAS)

Sandra Ruiz