



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

(Numero) Number V08R2888
 (Fecha) Date 11/08/2008

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 EDICION)

- VALVE INSPECTION AND TESTING
- METAL PLUG VALVES - FLANGED, THREADED AND WELDING
- FACE TO FACE AND END TO END DIMENSIONS OF VALVES
- VALVES - FLANGED, THREADED AND WELDING ENDS
- PRESSURE TESTING OF STEEL VALVES
- PIPELINE VALVES - GATE, PLUG, BALL ANF CHECK
- STEEL GATE VALVES, FLANGED AND WELDING ENDS
- FORGED FITTINGS, SOCKET - WELDING AND THREADED
- COMPACT STEEL GATE VALVES - FLANGED, THREADED, WELDING AND EXTENDED - BODY ENDS

Part No. **AR031A12MAA**

(Codigo) **3" Fig. 5341 F 3HF WCB, API TRIM No.12 8300000**

Description **CAST STEEL SWING CHECK VALVE**

(VALVULA RETENCION TIPO COLUMPIO DE ACERO FUNDIDO)
 VALVE WITH LOW EMISSION CONTROL (VALVULA SUMINISTRADA CON CONTROL DE EMISIONES FUGITIVAS A 50 PPM'S MAX)

PRESSURE TEST (PRUEBAS DE PRESION)	SHELL (CASCO)	BACK (SEAL)	SIDE (LADO)
HYDROSTATIC (PSD) (HIDROSTATICA)	450	N A	315
PNEUMATIC (PSD) (NEUMATICA)			N A

MECHANICAL TESTS (PROP. MECANICAS)

CHEMICAL COMPOSITION (%)

COMPOSICION QUIMICA (%)

ITEM (PARTES)	HEAT No. (COLADA)	MATERIAL (ASTM)	C	Mn	P	S	SI	Ni	Cr	Mo	Cu	V	Cb	TENS KPSI CVN@	YIELD KPSI 1ST	ELG %	RED %	BHN AVG
BODY CUERPO	WH25629	ASTM A-216/WCB	0.192	0.940	0.028	0.014	0.477	0.020	0.030	0.007	0.009	0.005		73.37	44.95	28	52	153
WEDGE DISCO	HD3250	ASTM A-216/WCB	Normalized to (Normalizado a) 930 °C 0.190	0.910	0.016	0.018	Temper to (Temple a) 650 °C 0.530	0.078	0.121	0.039	0.041	0.004	Cooled in air:(Cooled in air) (Enfri) 0.004	74.39	47.85	26	48	172
COVER TAPA	WH25354	ASTM A-216/WCB	Normalized to (Normalizado a) 920 °C 0.198	0.864	0.031	0.020	Temper to (Temple a) 650 °C 0.507	0.025	0.072	0.009	0.016	0.004	Cooled in air:(Cooled in air) (Enfri) 0.004	75.40	44.08	30	49	156
			Normalized to (Normalizado a) 930 °C				Temper to (Temple a) 650 °C											

FA010-21 REV -3"

CERTIFICADO POR:
 ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:
 QUALITY ASSURANCE

JESSICA GARCIA