



Industrial de Valvulas, S.A. de C.V.
 Av. de La Industria Lot# 16 Fracc. Industrial El Trébol
 Tepotzotlan, Estado de Mexico C.P. 54600

(Numero) Number
 (Fecha) Date

V11EC1451
 25/10/2011

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 PROBADO DE ACUERDO CON NUESTRO SISTEMA DE CALIDAD Y CON REQUISITOS ESTABLECIDOS EN UNO O MAS DE LOS SIGUIENTES ESTANDARES ULTIMA EDICIÓN.)

API 598
 API 599
 ANSI B16-10
 ANSI B16-34
 MSS-SP61

- 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

API 6D
 API 600
 ANSI B16-11
 API 602

- PIPELINE VALVES - GATE, PLUG, BALL AND 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. **AC041A08MAB830000+**
 (Código) **4" Fig. 5202 F UT WCB, API TRIM No.8 830000**
 Description **CAST STEEL GATE VALVE 150 CLASS**
 Descripción **(VALVULA COMPUERTA DE ACERO FUNDIDO CLASE 150)**

VALVE WITH LOW EMISSION CONTROL (50 PPM'S MAX.) (VALVULA SUMINISTRADA CON CONTROL DE BAJAS EMISIONES FUGITIVAS (50 PPM'S MAX.))

| 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 (%) | | | | | TENS | YIELD | ELG | RED | BHN |
|------------------|----------------------|--------------------------|--------------------------------------|-------|-------|-------|-----------------------------|-------|-------|-------|------------------------------------|-------|-------------------------|--------------|-------------|----------|----------|------|-------|-----|-----|-----|
| ITEM (PARTE) | HEAT No. (COLADA) | MATERIAL (ASTM) | C | Mn | P | S | Si | Ni | Cr | Mo | Cu | V | Cb | KPSI CVN@ | KPSI 1ST | % 2ND | % 3RD | AVG | | | | |
| BODY CUERPO | HC0390 | ASTM A-216/WCB | 0.200 | 0.920 | 0.027 | 0.014 | 0.480 | 0.026 | 0.103 | 0.038 | 0.026 | 0.002 | | 76.85 | 49.30 | 32 | 51 | 153 | | | | |
| BONNET BONETE | HC0380 | ASTM A-216/WCB | Normalized to (Normalizado a) 930 °C | | | | Temper to (Temple a) 650 °C | | | | Cooled in air. (Enfriado en aire.) | | | 72.50 | 43.50 | 27 | 47 | 150 | | | | |
| WEDGE DISCO | HC0381 | ASTM A-216/WCB | Normalized to (Normalizado a) 930 °C | | | | Temper to (Temple a) 650 °C | | | | Cooled in air. (Enfriado en aire.) | | | 72.50 | 44.23 | 28 | 46 | 148 | | | | |
| | | | Normalized to (Normalizado a) 930 °C | | | | Temper to (Temple a) 650 °C | | | | Cooled in air. (Enfriado en aire.) | | | | | | | | | | | |

CERTIFICADO POR:
 ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:
 QUALITY ASSURANCE

Yolanda Ponciano