



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. 54600

(Numero) Number V08C13703  
 (Fecha) Date 29/08/2008

# 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:  
 ESTANDARES ULTIMA EDICIÓN)

- API 598 - VALVE INSPECTION AND TESTING
- API 599 - METAL PLUG VALVES - FLANGED, THREADED AND WELDING
- ANSI B16-10 - FACE TO FACE AND END TO END DIMENSIONS OF VALVES
- ANSI B16-34 - VALVES - FLANGED, THREADED AND WELDING ENDS
- MSS-SP61 - PRESSURE TESTING OF STEEL VALVES
- API 6D - PIPELINE VALVES - GATE, PLUG, BALL AND CHECK
- API 600 - STEEL GATE VALVES, FLANGED AND WELDING ENDS
- ANSI B16-11 - FORGED FITTINGS, SOCKET - WELDING AND THREADED
- API 602 - COMPACT STEEL GATE VALVES - FLANGED, THREADED, WELDING AND EXTENDED - BODY ENDS

Part No. AC042A08MAB

(Código) 4" Fig. 5206 F UT WCB, API TRIM No.8 830000K

Description CAST STEEL GATE VALVE (VALVULA COMPUERTA DE ACERO FUNDIDO)

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

| PRESSURE TEST (PRUEBAS DE PRESTION) | SHELL (CASCO) | BACK (SEAT) | SIDE (LADO) |
|-------------------------------------|---------------|-------------|-------------|
| HYDROSTATIC (PSI) (HIDROSTATICA)    | 1125          | 1125        | N A N A     |
| PNEUMATIC (PSI) (PNEUMATICA)        |               |             | 80 80       |

## CHEMICAL COMPOSITION (%)

| ITEM (PARTES) (CODIGOS) | HEAT No. (COLADA) | MATERIAL (ASTM) | C                                     | Mn    | P     | S     | SI    | Ni                          | Cr    | Mo    | Cu     | V     | Cb    | TENS (KSI) (CVN@) | YIELD (KSI) (IST) | ELG (%) (2ND) | RED (%) (3RD) | BHN (AVG) |
|-------------------------|-------------------|-----------------|---------------------------------------|-------|-------|-------|-------|-----------------------------|-------|-------|--------|-------|-------|-------------------|-------------------|---------------|---------------|-----------|
| BONNET BONETE           | WH22458           | ASTM A-216/WCB  | 0.196                                 | 0.910 | 0.030 | 0.016 | 0.440 | 0.047                       | 0.080 | 0.021 | 0.019  | 0.005 |       | 80.91             | 51.62             | 28            | 58            | 150       |
| BODY CUERPO             | WH22642           | ASTM A-216/WCB  | Normalized to (Normalizado a) 930 °C  | 0.194 | 0.933 | 0.027 | 0.015 | Tempor to (Temple a) 650 °C | 0.503 | 0.019 | 0.044  | 0.025 | 0.040 | 78.15             | 44.51             | 29            | 48            | 156       |
| WEDGE DISCO             | D8544             | ASTM A-217/CA15 | Normalized to (Normalizado a) 920 °C  | 0.110 | 0.920 | 0.032 | 0.016 | Tempor to (Temple a) 650 °C | 0.720 | 0.910 | 12.010 | 0.027 | 0.024 | 98.74             | 70.18             | 25            | 47            | 269       |
|                         |                   |                 | Normalizado a (Normalizado to) 970 °C |       |       |       |       | Temple a (Temple to) 630 °C |       |       |        |       |       |                   |                   |               |               |           |

## MECHANICAL TESTS (PROP. MECANICAS)

FAC10-21 REV "3"

CERTIFICADO POR: ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:

QUALITY ASSURANCE JESSICA GARCIA