



Industrial de Válvulas, S.A. de C.V.  
 Av. de la Industria Lote 16 Fracc. Industrial el Trebol  
 Tepozotlan, Estado de México C.P. 54600

(Numero) Number  
 (Fecha) Date

V064B20  
 25/07/2007

## 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.)

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

**Part No. CB2001A2AAB**  
 (Codigo)  
**Description 20" Fig. 8122 F A105, TH0000B**  
 (Descripción)  
**VALVULA ESFERA DE ACERO**  
 (STEEL BALL VALVE)  
 MANUFACTURED TO MEET NACE MR-01-75 REQUIREMENTS \*TIRE TEST API 6FA, API 607  
 (VALVULA SERVICIO NACE MR-01-75 \*PRUEBA DE FUEGO API 6FA, API 607)

| PRESSURE TESTS<br>(PRUEBAS DE PRESSION) | SHELL<br>(CASCO) | BACK<br>SEAT | SIDE<br>(Lado) |     |
|---|------------------|--------------|----------------|-----|
|   |                  |              | 1              | 2   |
| HYDROSTATIC (PSI)<br>(HIDROSTATICA)     | 430              |              | 313            | 313 |
| PNEUMATIC (PSI)<br>(NEUMATICA)          |                  |              | 80             | 80  |

#### CHEMICAL COMPOSITION (%)

| ITEM<br>(PARTE)  | HEAT No.<br>(COLADA) | MATERIAL<br>(ASTM) | COMPOSICION QUIMICA (%) |       |       |       |       |       |       |       |       |       |   | MECHANICAL TESTS (PROP. MECANICAS) |            |            |                   |     |
|------------------|----------------------|--------------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|------------------------------------|------------|------------|-------------------|-----|
|                  |                      |                    | C                       | Mn    | P     | S     | SI    | NI    | Cr    | Mo    | Cu    | V     | W | TENS<br>YIELD<br>KPSI<br>CVN@      | ELG<br>1ST | RED<br>2ND | BHN<br>3RD<br>AVG |     |
| BODY<br>CUERPO   | 054-1495             | ASTM A-105N        | 0.220                   | 0.650 | 0.012 | 0.016 | 0.270 | 0.060 | 0.130 | 0.002 | 0.030 | 0.001 |   | 70.97                              | 51.52      | 30         | 59                | 150 |
| BONNET<br>BONETE | 054-1495             | ASTM A-105N        | 0.220                   | 0.650 | 0.012 | 0.016 | 0.270 | 0.060 | 0.130 | 0.002 | 0.030 | 0.001 |   | 70.97                              | 51.52      | 30         | 59                | 150 |
| WEDGE<br>DISCO   | B036                 | ASTM A-105N        | 0.205                   | 0.800 | 0.013 | 0.005 | 0.220 | 0.050 | 0.190 | 0.020 | 0.195 | 0.011 |   | 76.92                              | 44.99      | 31         | 40                | 170 |

CERTIFICADO POR  
 ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:  
 QUALITY ASSURANCE

Sandra Ruiz