



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 V064B2477
 (Fecha) Date 06/11/2007

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 | - 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. **CB0403A1AAB**

(Codigo) **4" Fig. 8612 F A105, TH0000B**

Description **STEEL BALL VALVE (VALVULA ESFERA DE ACERO)**
 MANUFACTURED TO MEET NACE MR-01-75 REQUIREMENTS FIRE TEST API 6FA, API 607.
 REV 2003 (VALVULA SERVICIO NACE MR-01-75 (VALVULA DE FUEGO API 6FA, API 607))
 PRUEBA DE FUEGO API 6FA, API 607)

| | | | | |
|--|-------------------------|-----------------------|-----------------------|------|
| PRESSURE TEST (PRUEBAS DE PRESION) | SHELL (CASCO) | BACK (SEAT) | SIDE (LADO) | |
| | 2220 | | 1 | 2 |
| HYDROSTATIC (PSD) (HIDROSTATICA) | | | 1630 | 1630 |
| PNEUMATIC (PSD) (PNEUMATICA) | | | 80 | 80 |

CHEMICAL COMPOSITION (%)

| ITEM (PARTES) (CODADA) | HEAT No. (ASTM) | MATERIAL (ASTM) | COMPOSICIÓN QUIMICA (%) | | | | | | | | | | | MECHANICAL TESTS (PROP. MECANICAS) | | | | |
|------------------------|-----------------|-----------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|------------------------------------|----------------------|----------|----------|------------|
| | | | C | Mn | P | S | Si | Ni | Cr | Mo | Cu | V | W | TENS KPSI CVN60 | YIELD KPSI 1ST | ELG % | RED % | BHN AVG |
| BODY CUERPO | 063-2041 | ASTM A-105N | 0.210 | 0.790 | 0.025 | 0.023 | 0.200 | 0.030 | 0.051 | 0.001 | 0.030 | 0.001 | | 76.00 | 53.99 | 38 | 66 | 171 |
| WEDGE DISCO | B067 | ASTM A-105N | 0.220 | 0.830 | 0.009 | 0.004 | 0.230 | 0.040 | 0.080 | 0.031 | 0.130 | 0.007 | | 81.10 | 49.29 | 35 | 52 | 160 |
| END1 EXTREMO1 | 063-2041 | ASTM A-105N | 0.210 | 0.790 | 0.025 | 0.023 | 0.200 | 0.030 | 0.051 | 0.001 | 0.030 | 0.001 | | 76.00 | 53.99 | 38 | 66 | 171 |

Sandra Ruiz