



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

(Numero) Number 0115/2008  
 (Fecha) Date 05/02/2008

## 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 PRABADO 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 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 ANF 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. BCSB076E08AAB**  
 (Codigo)  
**3/4" Fig. 950 S UT A105, API TRIM No.8 830000C**  
 Description  
**FORGED STEEL GATE VALVE**  
**(VALVULA COMPUERTA DE ACERO FORJADO)**  
 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 (PSID)                 | 2970          | 2970        | N A         |
| PNEUMATIC (PSID)                   |               |             | 80          |

Invoice(Factura) 90968 Item(Partida) 2  
 Qty(Cantidad) 206

### CHEMICAL COMPOSITION (%)

| ITEM (PARTE) | HEAT No. (CODIGO) | MATERIAL (ASTM) | C     | Mn    | P     | S     | Si    | NI    | Cr    | Mo    | Cu    | V     | Cb    | TENS (KPSI CVM@) | YIELD (KPSI 1ST) | ELG (%) 2ND | RED (%) 3RD | BHN AVG |
|--------------|-------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|------------------|-------------|-------------|---------|
| BODY CUERPO  | CAX               | ASTM A-105N     | 0.220 | 0.720 | 0.022 | 0.008 | 0.270 | 0.050 | 0.030 | 0.020 | 0.050 |       |       | 79.31            | 52.92            | 35          | 54          | 170     |
| BODY CUERPO  | CCH               | ASTM A-105N     | 0.230 | 0.680 | 0.019 | 0.007 | 0.250 | 0.100 | 0.100 |       | 0.220 |       |       | 78.30            | 52.20            | 27          | 58          | 170     |
| BODY CUERPO  | CCI               | ASTM A-105N     | 0.220 | 0.890 | 0.020 | 0.007 | 0.210 | 0.100 | 0.100 | 0.100 |       |       |       | 79.02            | 55.10            | 32          | 60          | 170     |
| BODY CUERPO  | CCL               | ASTM A-105N     | 0.210 | 0.780 | 0.019 | 0.008 | 0.270 | 0.040 | 0.020 | 0.030 | 0.070 |       |       | 79.02            | 55.10            | 37          | 54          | 170     |
| YOKE YUOGO   | CAV               | ASTM A-105N     | 0.260 | 0.810 | 0.018 | 0.007 | 0.240 | 0.050 | 0.050 | 0.100 | 0.220 | 0.010 | 0.000 | 76.12            | 50.75            | 32          | 54          | 170     |
| YOKE YUOGO   | CAX               | ASTM A-105N     | 0.220 | 0.720 | 0.022 | 0.008 | 0.270 | 0.050 | 0.030 | 0.020 | 0.050 |       |       | 79.31            | 52.92            | 35          | 54          | 170     |
| YOKE YUOGO   | CCI               | ASTM A-105N     | 0.220 | 0.890 | 0.020 | 0.007 | 0.210 | 0.100 | 0.100 | 0.100 |       |       | 0.000 | 79.02            | 55.10            | 32          | 60          | 170     |
| YOKE YUOGO   | CCK               | ASTM A-105N     | 0.230 | 0.750 | 0.018 | 0.009 | 0.220 | 0.050 | 0.080 | 0.200 | 0.080 |       |       | 78.30            | 55.82            | 35          | 55          | 170     |
| YOKE YUOGO   | CCL               | ASTM A-105N     | 0.210 | 0.780 | 0.019 | 0.008 | 0.270 | 0.040 | 0.020 | 0.030 | 0.070 |       |       | 79.02            | 55.10            | 37          | 54          | 170     |

FACIO-21 REV 2\*

CERTIFICADO POR: ASEGURAMIENTO DE CALIDAD

CERTIFIED BY: Sandra Ruiz