



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

(Numero) Number
 (Fecha) Date

V10C6489
 01/12/2010

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 | - VALVE INSPECTION AND TESTING | API 6D | - PIPELINE VALVES - GATE, PLUG, BALL AND 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. AC011A16MAA7900000
 (Código)
Description 2" Fig. 5202 F 3HF+HF WCB, API TRIM No. 16 790000
 Descripción CAST STEEL GATE VALVE 150 CLASS
 (VALVULA COMPUERTA DE ACERO FUNDIDO CLASE 150)

VALVE MANUFACTURED TO MEET LOW FUGITIVE EMISSION (50 PPM'S MAX) & NACE SERVICE MR-01-75 (VALVULA SUMINISTRADA CON CONTROL DE BAJAS EMISIONES FUGITIVAS 50 PPM'S MAX.) Y PARA SERVICIO NACE MR-01-75)

| 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 | XS397 | ASTM A-216/WCB | 0.230 | 0.870 | 0.020 | 0.023 | 0.380 | 0.060 | 0.110 | 0.018 | | | | 74.09 | 45.67 | 25 | 42 | 163 | |
| BONNET BONETE | WH14130 | ASTM A-216/WCB | Normalized to (Normalizado a) 920 | | | | Temper to (Temple a) 650 | | | | Cooled in air. (Enfriado en aire.) | | | | 73.66 | 73.66 | 28 | 50 | 165 |
| WEDGE DISCO | D2568. | ASTM A-217/CA15 | Normalized to (Normalizado a) 930 | | | | Temper to (Temple a) 650 | | | | Cooled in air. (Enfriado en aire.) | | | | 100.77 | 68.29 | 25 | 48 | 229 |
| | | | Normalized a (Normalized to) 955 | | | | Temple a (Temper to) 630 | | | | Cooled in air. | | | | | | | | |

FAC10-21 REV "3"

CERTIFICADO POR:
 ASEGURAMIENTO DE CALIDAD

CERTIFIED BY :
 QUALITY ASSURANCE


 Jessica García