



VALVULAS WORCESTER DE MEXICO, S.A. DE C.V.

RHINO VALVES WORLDWIDE



CERTIFICADO DE CALIDAD/QUALITY CERTIFICATE

EN 10 204 3.1 B

| Factura / Invoice: | Cantidad / Quantity: | Certificado / Certificate: | Fecha / Date: |
|---|----------------------|----------------------------|---------------|
| 112923 | 72.00 | EE112923/12 | 4/Ene/06 |
| Descripción / Description: | | | |
| 411-T 2" S.E. NPT | | | |
| Cliente / Customer: | | | |
| 7 PLESA ANAHUACAPULCUIAS., S.A. DE C.V. | | | |

Numeros de Rastreabilidad / Traceability Number:

05K00539 A 05K00544,05E14399 A 05E14410,05E14471 A 05E14476
05K00635 A 05K00640,05E14375 A 05E14386,05E14435 A 05E14440
05E14465 A 05E14470,05K00611 A 05K00616,05K00581 A 05K00586
05K00533 A 05K00538

Válvulas Worcester de México, S.A. de C.V., certifica que el material indicado cumple con nuestras especificaciones como se describe en nuestros catálogos, hojas de especificación, dibujos y en otra literatura. Los productos, partes, materiales indicados aquí han sido comprados, fabricados, inspeccionados y probados de acuerdo con estas especificaciones, a nuestro sistema de calidad ISO 9001, y ASME/ANSI B16.34-1998 inciso (7).

Válvulas Worcester de México, S.A. de C.V., hereby certifies that the material supplied is in accordance with our specifications as describe in our catalog, specification sheets, drawings, and other literature. The products, parts and materials identified herein have been purchased, manufactured, inspected and tested in accordance with these specifications, our ISO 9001 quality assurance program, and ASME/ANSI B16.34-1998 part (7,

Elaboro / Elaborated by:

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Metrologista

Aprobo / Aproved by:

Ing. Saturnino Padilla Becerra.
Gerente de Aseguramiento de Calidad
Quality Ass. Manager.

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CERTIFICADO / CERTIFICATE:

EE112923/12

| No. | COMPONENTES | MATERIAL |
|-----|-----------------|--------------------|
| 1 | CUERPO / BODY | ASTMB214 C377000 |
| 2 | TAPA / PIPE END | ASTM B214 C37700 |
| 3 | VASTAGO / STEM | ASTM 316 |
| 4 | ESFERA / SPHERE | UNI EN 12164CW614N |

| No. | C% | Mn% | Si% | P% | S% | Cr% | Mo% | Ni% | Cu% | V% | Fe% | Al% | N% | Zn% | Pb% | Sn% | PROPIEDADES MECANICAS / MECHANICAL PROPERTIES | | | | |
|-----|-------|-------|-------|-------|-------|--------|-------|--------|--------|----|-------|-------|----|--------|-------|-------|---|--------------------------------------|------------------------------|-------------------------------------|--------------------|
| | | | | | | | | | | | | | | | | | RESISTENCIA A LA TENSION TENSILE STRENGTH | LIMITE DE CEDENCIA YIELD STRENGTH | % ELONGACION % ELONGATION | REDUCCION DE AREA REDUCTION AREA | DUREZA HARDNESS |
| 1 | X | 0.000 | 0.003 | X | X | 0.004 | X | X | 58.580 | X | 0.308 | 0.000 | X | 39.170 | 1.890 | 0.043 | X | X | 60 RB | | |
| 2 | X | 0.001 | 0.003 | X | X | 0.004 | X | X | 58.150 | X | 0.300 | 0.013 | X | 34.610 | 1.880 | 0.041 | X | X | 60 RB | | |
| 3 | 0.030 | 1.640 | 0.410 | 0.039 | 0.028 | 16.590 | 2.170 | 10.770 | X | X | X | X | X | X | X | X | 82218 Psi | 39192 Psi | 57 | X | 143 HB |
| 4 | X | X | X | X | X | 59.000 | X | 0.200 | X | X | 0.200 | 0.050 | X | X | 2.000 | 0.200 | 0.000 | 0.000 | 0 | X | 0.000 |

| TIPO DE PRUEBA TYPE OF TEST | PSI | RESULTADO RESULT |
|--|-------|-----------------------------------|
| PRUEBA HIDRAULICA DEL CUERPO HYDRAULIC TEST ON BODY | 900 | "OK" NO LEAKAGE FOUND SIN FUGA |
| PRUEBA HIDRAULICA EN ASIENTOS HYDRAULIC TEST ON SEATS | 700 | "OK" NO LEAKAGE FOUND SIN FUGA |
| PRUEBA NEUMATICA EN ASIENTOS NEUMATIC TEST ON SEATS | 50-80 | "OK" NO LEAKAGE FOUND SIN FUGA |