



# VALVULAS UNIVAL DE MEXICO®, S.A. DE C.V.

REG. FED. DE CAUS. VUM-990517-C99  
 MARCONI No. 8  
 PARQUE INDUSTRIAL SAN NICOLAS, TLALNEPANTLA, EDO. DE MEXICO, C.P. 54030  
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|                         |
|-------------------------|
| FECHA                   |
| 15 DE DICIEMBRE DE 2003 |
| Nº DE CERTIFICADO       |
| 1890                    |

## CERTIFICADO DE CALIDAD

|          |  |             |       |
|----------|--|-------------|-------|
| Cliente: | 00043 INDUSTRIAL DE VALVULAS, S.A. DE C.V. | Referencia: | R-957 |
|----------|--|-------------|-------|

| CODIGO | 06U33XUWCBNR | CANT. | 2.00 | FIG. | U-33-XU-WCB-N-R | PARTIDA: | 3 |
|--------|--------------|-------|------|------|-----------------|----------|---|
|--------|--------------|-------|------|------|-----------------|----------|---|

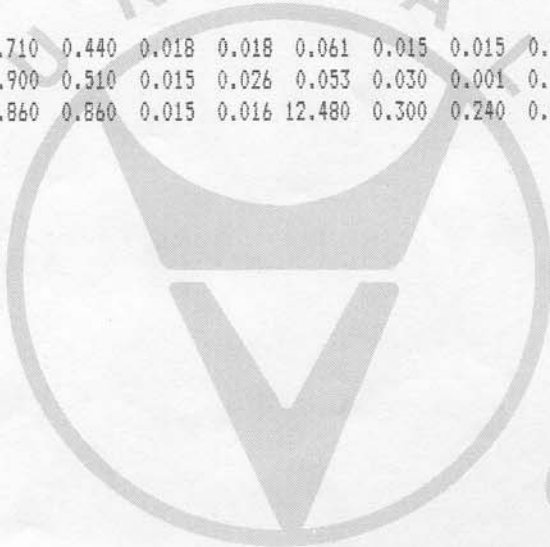
DESCRIPCION: 6" COMPUERTA 300#RF DS&Y WCB-N/API 8

**CERTIFICAMOS QUE LAS VALVULAS MENCIONADAS EN ESTA ORDEN CUMPLEN CON LOS REQUISITOS Y NORMAS ESPECIFICADAS SEGÚN SEA EL CASO COMO:**

- API600 > STEEL GATE VALVES-FLANGED AND BUT-WELDING ENDS
- API 6 D > PIPELINE VALVES-GATE, PLUG, BALL AND CHECK
- API 598 > VALVE INSPECTION AND TESTING
- ANSI B 16.10 > FACE TO FACE AND TO END DIMENSIONS OF VALVES
- ANSI B 16.34 > VALVES-FLANGED, THREADED AND WELDING ENDS
- ANSI B 16.5 > PIPE-FLANGES AND FLANGED FITTINGS
- MSS-SP61 > PRESSURE TESTING OF STEEL VALVES

| PRUEBA DE PRESION  | CUERPO | ASIENTO POSTERIOR | LADO |     | INSPECCION:        |
|--------------------|--------|-------------------|------|-----|--------------------|
|                    |        |                   | 1    | 2   |                    |
| HIDROSTATICA (PSI) | 1125   | 1125              | 815  | 815 | <i>[Signature]</i> |
| NEUMATICA (PSI)    | N/A    | N/A               | 80   | 80  |                    |

| PARTIDA      | Nº DE COLADA | MATERIAL | COMPOSICIÓN QUÍMICA |       |       |       |       |        |       |       |       |       |       | PROPIEDADES MECÁNICAS |       |    |    |     |  |
|--------------|--------------|----------|---------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-----------------------|-------|----|----|-----|--|
|              |              |          | C                   | Mn    | Si    | S     | P     | Cr     | Ni    | Mo    | W     | Cu    | V     | TS                    | YS    | E  | R  | HB  |  |
|              |              |          |                     |       |       |       |       |        |       |       |       |       |       | PSI                   | %     |    |    |     |  |
| 023-001-002  |              |          |                     |       |       |       |       |        |       |       |       |       |       |                       |       |    |    |     |  |
| CUERPO       | L2830        | WCB      | 0.210               | 0.920 | 0.420 | 0.026 | 0.038 | 0.039  | 0.049 | 0.009 | 0.000 | 0.079 | 0.002 | 77595                 | 49313 | 26 | 53 | 153 |  |
| BONETE       | E0988        | WCB      | 0.220               | 0.770 | 0.470 | 0.019 | 0.020 | 0.062  | 0.004 | 0.014 | 0.000 | 0.015 | 0.003 | 76144                 | 51923 | 28 | 60 | 150 |  |
| DISCO        | C0744        | CA15     | 0.100               | 0.810 | 0.600 | 0.017 | 0.016 | 12.100 | 0.380 | 0.280 | 0.000 | 0.000 | 0.000 | 103266                | 74839 | 25 | 39 | 272 |  |
| 1133-016-007 |              |          |                     |       |       |       |       |        |       |       |       |       |       |                       |       |    |    |     |  |
| CUERPO       | E0829        | WCB      | 0.230               | 0.710 | 0.440 | 0.018 | 0.018 | 0.061  | 0.015 | 0.015 | 0.000 | 0.014 | 0.005 | 76870                 | 50328 | 27 | 58 | 145 |  |
| BONETE       | L5665        | WCB      | 0.230               | 0.900 | 0.510 | 0.015 | 0.026 | 0.053  | 0.030 | 0.001 | 0.000 | 0.047 | 0.005 | 76144                 | 48587 | 28 | 52 | 148 |  |
| DISCO        | C0897        | CA15     | 0.100               | 0.860 | 0.860 | 0.015 | 0.016 | 12.480 | 0.300 | 0.240 | 0.000 | 0.000 | 0.000 | 98335                 | 76434 | 24 | 40 | 263 |  |



CONTROL DE CALIDAD