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(Numero) Number

V12LR0725

(Fecha) Date

02/10/2013

## 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 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 AND 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. **AR021A08MAB83000H**  
 (Código)  
 Description **2 1/2" Fig. 5341 F UT WCB, API TRIM No.8 830000**

Descripción **CAST STEEL SWING CHECK VALVE 150 CLASS**  
**(VALVULA RETENCIÓN TIPO COLUMPIO DE ACERO FUNDIDO CLASE 150)**

VALVE WITH LOW EMISSION CONTROL (50 PPM'S MAX.) (VALVULA SUMINISTRADA CON CONTROL DE BAJAS EMISIONES FUGITIVAS (50 PPM'S MAX.))

| PRESSURE TEST<br>(PRUEBAS DE PRESION) | SHELL<br>(CASCO) | BACK<br>(SEAT) | SIDE (LADO) |    |
|---------------------------------------|------------------|----------------|-------------|----|
|                                       |                  |                | 1           | 2  |
| HYDROSTATIC (PSI)<br>(HIDROSTATICA)   | 450              | NA             | 315         | NA |
| PNEUMATIC (PSI)<br>(NEUMATICA)        |                  |                | NA          | NA |

### MECHANICAL TEST (PROP. MECANICAS)

### CHEMICAL COMPOSITION (%)

### COMPOSICIÓN QUIMICA (%)

| ITEM<br>(PARTE) | HEAT No.<br>(COLADA) | MATERIAL<br>(ASTM) | CHEMICAL COMPOSITION (%)  |       |       |       |       |       |        |       |       |       |    | MECHANICAL TEST (PROP. MECANICAS) |                      |                 |                 |            |       |    |    |     |
|-----------------|----------------------|--------------------|---|-------|-------|-------|-------|-------|--------|-------|-------|-------|----|-----------------------------------|----------------------|-----------------|-----------------|------------|-------|----|----|-----|
|                 |                      |                    | C   | Mn    | P     | S     | Si    | Ni    | Cr     | Mo    | Cu    | V     | Cb | TENS<br>KPSI<br>CVN@              | YIELD<br>KPSI<br>1ST | ELG<br>%<br>2ND | RED<br>%<br>3RD | BHN<br>AVG |       |    |    |     |
| BODY<br>CUERPO  | 8065                 | ASTM A-216/WCB     | 0.210   | 0.780 | 0.023 | 0.024 | 0.500 | 0.024 | 0.023  | 0.008 | 0.031 | 0.003 |    |                                   |                      |                 |                 | 75.97      | 42.34 | 25 | 44 | 155 |
|                 |                      |                    | Normalized (Normalizado a) 930 °C Temper to (Temple a) 650 °C Air Cooled. (Enfriado en aire.) |       |       |       |       |       |        |       |       |       |    |                                   |                      |                 |                 |            |       |    |    |     |
| COVER<br>TAPA   | 8063                 | ASTM A-216/WCB     | 0.230   | 0.740 | 0.022 | 0.017 | 0.470 | 0.031 | 0.038  | 0.003 | 0.027 | 0.002 |    |                                   |                      |                 |                 | 75.26      | 42.34 | 30 | 42 | 154 |
|                 |                      |                    | Normalized (Normalizado a) 930 °C Temper to (Temple a) 650 °C Air Cooled. (Enfriado en aire.) |       |       |       |       |       |        |       |       |       |    |                                   |                      |                 |                 |            |       |    |    |     |
| WEDGE<br>DISCO  | 1828                 | ASTM A-217/CA15    | 0.110   | 0.900 | 0.032 | 0.016 | 0.950 | 0.880 | 12.440 | 0.053 | 0.040 | 0.002 |    |                                   |                      |                 |                 | 99.33      | 71.63 | 28 | 44 | 273 |
|                 |                      |                    | Normalized (Normalizado a) 970 °C Temple a (Temple a) 630 °C Air Cooled. (Enfriado en aire.)  |       |       |       |       |       |        |       |       |       |    |                                   |                      |                 |                 |            |       |    |    |     |

FACIO-21 REV "3"

CERTIFICADO POR:  
ASEGURAMIENTO DE

CERTIFIED BY:  
QUALITY ASSURANCE

  
Yolanda Ponciano