

CERTIFICATE OF MATERIALS & TEST REPORT (CMTR)
 (CERTIFICADO DE CALIDAD DE MATERIALES Y REPORTE DE PRUEBAS CMTR)
 ACCORDING TO EN 10204 TYPE 3.1

 No. código interno (Product Code Nr.): EE025ADE1MR21BY

 No. Serie (Serial Number): 16C4000

 Fecha (Date): April 27, 2016

No. De Tag (Tag Number): _____

 Clientes (Customer): PLESA ANAHUAC Y CIAS, S.A DE C.V.

 No Pedido del Cliente (Customer PO Nr.): 22817

 Partida (Customer Item): 20 Pedido Interno No (Walworth Sales Nr.): D000060182

 Partida (Item): 20

| | | | | | |
|-----------------------------------|---|-------------------------|-----------------------|-----------------------------|------------------|
| Linea de producto (Product line): | <u>CAST IRON</u> | Extremos (Ends): | <u>FLAT FACE (FF)</u> | Operación (Operation): | <u>HANDWHEEL</u> |
| Tipo de válvula (Type of valve): | <u>IRON GATE NOT RISING STEM FIXED STEM</u> | Cuerpo (Shell): | <u>GRAY IRON</u> | Otros (Other requirements): | _____ |
| Diámetro (Nominal diameter): | <u>2 1/2</u> | Interiores (Trim): | <u>#E1 (BCE)</u> | | |
| Presión clase (Pressure class): | <u>125</u> | Figura No (Figure Nr.): | <u>FIG W719</u> | | |

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

| Parte (Component) | Material (Material) | Colada (Heat) | % P | % S | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % |
|-------------------|---------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BONETE (BONNET) | ASTM_A_126_GR_B | C54V | 0.050 | 0.066 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CUERPO (BODY) | ASTM_A_126_GR_B | C59D | 0.050 | 0.053 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| DISCO 1 (DISC 1) | ASTM_A_126_GR_B | C587 | 0.051 | 0.063 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

PROPIEDADES MECANICAS (MECHANICAL TESTING)

| Parte (Component) | Colada (Heat) | Condición de TT Normalizado & revenido Heat Treatment condition (Normalized & tempered) | Cedencia (Yield strength) (Kpsi) | Tensión (Tensile strength) (Kpsi) | Alar. En 2" (Elong. In 2") (% min) | Reduccion de area (Reduction of area) (% min) | Dureza (Hardness) (Bhn) | | Prueba Impacto (Impact Test) (Joules) | | | | | |
|-------------------|---------------|---|----------------------------------|-----------------------------------|------------------------------------|---|-------------------------|-----|---------------------------------------|-----|-----|-----|---|---|
| | | | | | | | 1st | 2nd | 1st | 2nd | 3rd | AVG | | |
| BONETE (BONNET) | C54V | NO APLICA NOT APPLICABLE | 0.0000 | 37.5550 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CUERPO (BODY) | C59D | NO APLICA NOT APPLICABLE | 0.0000 | 41.7600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| DISCO 1 (DISC 1) | C587 | NO APLICA NOT APPLICABLE | 0.0000 | 42.3400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

PRUEBAS DE PRESIÓN DE ACUERDO CON MSS SP 70 (PRESSURE TEST IN ACCORDANCE WITH MSS SP 70)

| TIPO DE PRUEBA (Type of test) | PRESION (Pressure) (Psi) | TIEMPO (Duration) (min) | RESULTADO (Result) | TIPO DE PRUEBA (Type of test) | RESULTADO (Result) |
|--|--------------------------|-------------------------|---------------------|-------------------------------|--------------------|
| HIDROSTATICA DE CASCO (HYDROSTATIC SHELL) | 350 | 0.5 min | ACEPTADO (ACCEPTED) | | |
| PRUEBA HIDROSTATICA SELLO 1 (HIGH PRESSURE CLOSURE SIDE 1) | 200 | 0.5 min | ACEPTADO (ACCEPTED) | | |
| PRUEBA HIDROSTATICA SELLO 2 (HIGH PRESSURE CLOSURE SIDE 2) | 200 | 0.5 min | ACEPTADO (ACCEPTED) | | |

Certificamos que este producto ha sido diseñado, fabricado y probado de acuerdo con nuestro sistema de administración de calidad y con los requisitos establecidos en una o más de las siguientes normas en su última edición. (We hereby certify this product has been designed, manufactured and tested according to our quality management system and requirements stated in one or more of the following standards on their latest edition).

DESIGN IN ACCORDANCE WITH MSS SP 70 (IRON GATE NOT RISING STEM (FIXED STEM))
 API 609 METAL PLUG VALVES - FLANGED, THREADED AND WELDING
 API 601 PROCESS VALVE QUALIFICATION PROCEDURE
 API 623 STEEL GLOBE VALVES - FLANGED AND BUTT WELDING ENDS, BOLTED BONNETS
 API 624 TYPE TESTING OF RISING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FUGITIVE EMISSIONS
 ANSI B16-10 FACE TO FACE AND END TO END DIMENSIONS OF VALVES
 ANSI B16-11 FORGED FITTINGS, SOCKET WELDING AND THREADED
 ANSIBONACE MR0175/ISO 15156-1 MATERIALS FOR USE IN H₂S-CONTAINING ENVIRONMENTS IN OIL AND GAS PRODUCTION
 NACE MR0103 MATERIAL RESISTANT TO SULFIDE STRESS CRACKING IN CORROSIIVE PETROLEUM ENVIRONMENT
 MSS-SP-61 PRESSURE TESTING OF STEEL VALVES



 Quality Assurance Department
 Jessica Garcia Perez

FAC-24 Rev. Original.