



Industrial de Válvulas, S.A. de C.V.

Industria Ite 16 SN Fracc. Industrial el Trébol de Tapotzotlán, Estado de México, México C.P. 54610

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.): EC040ADE1MR21BY No. Serie (Serial Number): 16C4878 Fecha (Date): September 26, 2016 No. De Tag (Tag Number): Clientes (Customer): No Pedido del Cliente (Customer PO Nr.): Partida (Customer Item): Partida (Item):

Linea de producto (Product line): Cast Iron Extremos (Ends): FF Tipo de válvula (Type of valve): Gate Cuerpo (Shell): GRAY IRON Diámetro (Nominal diameter): 4 Interiores (Trim): #E1 (BCE) Presión clase (Pressure class): 125 Figura No (Figure Nr.): FIG W726 Operación (Operation): Handwheel Otros (Other requirements):

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

Table with 14 columns: Parte (Component), Colada (Heat), Material (Material), % C, % P, % S, % Mn, % Si, % Ni, % Cu, % Cr, % Mo, % Nb, % Ti, % N, % O. Rows include BONETE (BONNET), CUERPO (BODY), and DISCO 1 (DISC 1).

PROPIEDADES MECANICAS (MECHANICAL TESTING)

Table with 10 columns: Parte (Component), Colada (Heat), Condición de TT Normalizado & revenido (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), and Prueba Impacto (Impact Test) (Joules). Rows include BONETE (BONNET), CUERPO (BODY), and DISCO 1 (DISC 1).

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

Table with 5 columns: TIPO DE PRUEBA (Type of test), PRESION (Pressure) (Psi), TIEMPO (Duration) (min), RESULTADO (Result), and RESULTADO (Result). Rows include HIDROSTATICA DE CASCO (HYDROSTATIC SHELL), PRUEBA HIDROSTATICA SELLO 1 (HIGH PRESSURE CLOSURE SIDE 1), and PRUEBA HIDROSTATICA SELLO 2 (HIGH PRESSURE CLOSURE SIDE 2).



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).

API 600 VALVES, CLASS 1500, FORGED AND WELDED
API 600 PROCESS VALVES, CLASS 1500, FORGED AND WELDED
API 600 STEEL GLOBE VALVES—FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
API 600 TYPE TESTING OF FIBING STEEL VALVES EQUIPPED WITH GRAPHITE PACKING FOR FLUORINE EMISSIONS
ANSI B16.10 FORGED FITTINGS, SOCKET, WELDING AND THREADED
ANSI B16.11 FORGED FITTINGS, SOCKET, WELDING AND THREADED
ANSI B16.34 FLANGED END STEEL VALVES FOR USE IN REBOILING CONDENSERS
ANSI B16.36 FLANGED END STEEL VALVES FOR USE IN REBOILING CONDENSERS
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Signature

Quality Assurance Department Yolanda Ponciano Montoya FAC-24 Rev. Original