



Industrial de Válvulas, S.A. de C.V.

Industria Ite 16 S/N Fracc. Industrial el Trébol de Tepotzotlán, 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

Form fields for product and customer information: No. código interno (Product Code Nr.), Fecha (Date), Clientes (Customer), Partida (Customer Item), No. Serie (Serial Number), No. De Tag (Tag Number), No Pedido del Cliente (Customer PO Nr.), Operación (Operation), and others.

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

Table with 16 columns: Parte (Component), Material (Material), Colada (Heat), % C, % Mn, % P, % S, % Si, % Ni, % Cr, % Mo, % Cu, % V, Dureza (Hardness), and Prueba Impacto (Impact Test).

PROPIEDADES MECANICAS (MECHANICAL TESTING)

Table with 10 columns: Parte (Component), Colada (Heat), Condición de TT Normalizado & revenido Heat Treatment condition, Cedencia (Yield strength), Tensión (Tensile strength), Alar. En 2" (Elong. In 2"), Reducción de area (Reduction of area), Dureza (Hardness), and Prueba Impacto (Impact Test).

PRUEBAS DE PRESIÓN DE ACUERDO CON API 598 (PRESSURE TEST IN ACCORDANCE WITH API 598)

Table with 6 columns: TIPO DE PRUEBA (Type of test), PRESION (Pressure), TIEMPO (Duration), RESULTADO (Result), TIPO DE PRUEBA (Type of test), and RESULTADO (Result).



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 598 METAL FLUID VALVES, FLANGES, THREADED AND WELDING
API 591 PROCESS VALVE QUALIFICATION PROCEDURE
API 623 STEEL GLOBE VALVES-FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
ANSI 601 TYPE TESTING OF PRESSURE VALVES EQUIPPED WITH GRAPHITE PACKING FOR FLUGITIVE EMISSIONS
ANSI B16.1 FORGED FITTINGS, SOCKET, WELDING AND THREADED
ANSI B16.11 FORGED FITTINGS, SOCKET, WELDING AND THREADED
ANSI/NACE MR0175/ISO 15156-1 MATERIALS FOR USE IN H2S-CONTAINING ENVIRONMENTS IN OIL AND GAS PRODUCTION
MSS-SP81 PRESSURE TESTING OF STEEL VALVES

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