



Industrial de Válvulas, S.A. de C.V.

Industria Ite 16 S/N Fracc. Industrial el Trébol de Tepetzotlán, 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.): AC040BA08MA2A1BF

No. Serie (Serial Number): V15FC01482

Fecha (Date): May 16, 2016

No. De Tag (Tag Number):

Clientes (Customer):

No Pedido del Cliente (Customer PO Nr.):

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

Partida (Item):

Table with product details: Linea de producto (CAST STEEL), Tipo de válvula (GATE OS & Y), Diámetro (4), Presión clase (150), Extremos (RAISED FACE), Cuerpo (WCB), Interiores (#08 UT), Figura No (FIG 5202), Operación (HANDWHEEL), Otros (Other requirements).

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

Table with 19 columns: Parte (Component), Material (Material), Colada (Heat), % C, % Mn, % P, % S, % Si, % Ni, % Cr, % Mo, % Cu, % V, and 7 empty columns. Rows include BONETE, CUERPO, and DISCO 1.

PROPIEDADES MECANICAS (MECHANICAL TESTING)

Table with 9 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"), Reduccion de area (Reduction of area), Dureza (Hardness), and Prueba Impacto (Impact Test). Rows include BONETE, CUERPO, and DISCO 1.

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), RESULTADO (Result). Rows include HIDROSTATICA DE CASCO, HIDROSTATICA DE CASQUILLO, and PRUEBA NEUMATICA SELLO 1 & 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).

DESIGN IN ACCORDANCE WITH API 600 (CAST STEEL GATE (OS & Y)KE)
API 598 METAL PLUG VALVES - FLANGED, THREADED AND WELDING
API 599 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
ANSI/NACE MR0175/ISO 15156-1 MATERIALS FOR USE IN H2S-CONTAINING ENVIRONMENTS IN OIL AND GAS PRODUCTION
NACE MR0175 MATERIAL RESISTANT TO SULFIDE STRESS CRACKING IN CORROSIVE PETROLEUM ENVIRONMENT
MSS-SP-91 PRESSURE TESTING OF STEEL VALVES

Quality Assurance Department
Yolanda Ponciano Montoya

FAC-24 Rev. Original.