



Industrial de Válvulas, S.A. de C.V.

Industria Ite 16 S/N Fracc. Industrial el Trébol de Tepozotlán, 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): V15FC01427
Fecha (Date): June 14, 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):

Linea de producto (Product line): CAST STEEL Extremos (Ends): RAISED FACE (RF TYPE "A") Operación(Operation): HANDWHEEL
Tipo de válvula (Type of valve): GATE OS & Y Cuerpo (Shell): WCB Otros (Other requirements):
Diámetro (Nominal diameter): 4 Interiores (Trim): #08 (UT)
Presión clase (Pressure class): 150 Figura No (Figure Nr.): FIG 5202

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

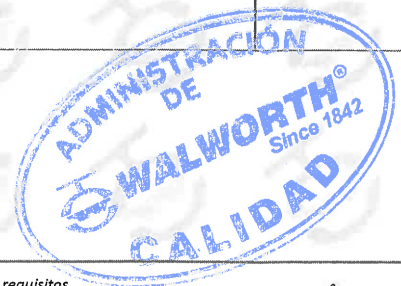
Table with 18 columns: Parte (Component), Material (Material), Colada (Heat), % C, % Mn, % P, % S, % Si, % Ni, % Cr, % Mo, % Cu, % V, and 6 empty percentage columns. Rows include BONETE (ASTM\_A\_216\_GR\_WCB, N2365), CUERPO (ASTM\_A\_216\_GR\_WCB, NL1136), and DISCO 1 (ASTM\_A\_216\_GR\_WCB, 38H).

PROPIEDADES MECANICAS (MECHANICAL TESTING)

Table with 9 columns: 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) 1st 2nd, and Prueba Impacto (Impact Test) (Joules) 1st 2nd 3rd AVG. 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) (Psi), TIEMPO (Duration) (min), RESULTADO (Result), TIPO DE PRUEBA (Type of test), and 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.)

- API 599 METAL PLUG VALVES - FLANGED, THREADED AND WELDING
API 591 PROCESS VALVE QUALIFICATION PROCEDURE
API 623 STEEL GLOBE VALVES-FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
API 624 TYPE TESTING OF RISERG STEAM 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/ASME B16.34 FLANGED END CONNECTIONS FOR VALVES, FITTINGS, FLANGES AND UNIONS
NACE 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 CORROSIVE PETROLEUM ENVIRONMENT
MSS-SP61 PRESSURE TESTING OF STEEL VALVES

Quality Assurance Department
Yolanda Ponciano Montoya

FAC-24 Rev. Original.