



Industrial de Válvulas, S.A. de C.V.

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

Industria Ite 16 S/N Fracc. Industrial el Trébol de Tepotzotlán, Estado de México, México C.P. 54610

No. código interno (Product Code Nr.): AC025BA08MA2A1BG

No. Serie (Serial Number): V148C11347

Fecha (Date): June 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):

Línea de producto (Product line): CAST STEEL

RAISED FACE (RF TYPE "A")

Operación (Operation): HANDWHEEL

Tipo de válvula (Type of valve): GATE OS & Y

Exteriores (Ends): WCB

Otros (Other requirements):

Diámetro (Nominal diameter): 2 1/2

Interiores (Trim): #08 (UT)

Presión clase (Pressure class): 150

Figura No (Figure Nr.): FIG 5202

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

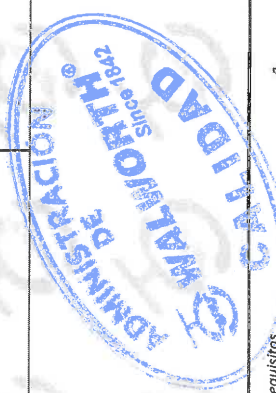
Table with 15 columns: Parte (Component), Material (Material), Colada (Heat), % C, % Mn, % P, % S, % Si, % Ni, % Cr, % Mo, % Cu, % V, % N, % O. Rows include BONETE (BONNET), CUERPO (BODY), and DISCO 1 (DISC 1).

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), Prueba Impacto (Impact Test) (Joules). Rows include BONETE (BONNET), CUERPO (BODY), and DISCO 1 (DISC 1).

PRUEBAS DE PRESION 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), RESULTADO (Result). Rows include HIDROSTATICA DE CASCO (HYDROSTATIC SHELL), HIDROSTATICA DE CASQUILLO (HYDROSTATIC BACK SEAT), PRUEBA NEUMATICA SELLO 1 (LOW PRESSURE CLOSURE SIDE 1), and PRUEBA NEUMATICA SELLO 2 (LOW 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 598 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 602 STEEL GLOBE VALVES - FLANGED AND BUTT-WELDING ENDS; WELDED BONNETS
ANSI B16-10 FACE TO FACE AND END TO END SOCKET WELDING END CONNECTIONS
ANSI B16-11 FORGED FITTINGS: SOCKET - WELDING AND THREADED
ANSI B16-34 FLANGED END CONNECTIONS FOR VALVES, FLANGES, UNIONS, REDUCERS AND ADAPTERS
ASME BPE-2010-1.1 METALS FOR USE IN PIPES CONTAINING ENVIRONMENTS IN OIL AND GAS PRODUCTION
MSS-SP91 PRESSURE TESTING OF STEEL VALVES

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