



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.): AC030GA08MA2A1BH
No. Serie (Serial Number): V12LC13902
Fecha (Date): April 27, 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 4 columns: Linea de producto (Product line), Tipo de válvula (Type of valve), Diámetro (Nominal diameter), Presión clase (Pressure class) and Extremos (Ends), Cuerpo (Shell), Interiores (Trim), Figura No (Figure Nr.).

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

Table with 20 columns for chemical composition: Parte (Component), Material (Material), Colada (Heat), % C, % Mn, % P, % S, % Si, % Ni, % Cr, % Mo, % Cu, % V, and 17 empty columns.

PROPIEDADES MECANICAS (MECHANICAL TESTING)

Table with 10 columns for mechanical properties: 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).

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).



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 (OG & YOKE))
API 598 METAL PLUG VALVES - FLANGED, THREADED AND WELDING
API 591 PROCESS VALVE QUALIFICATION PROCEDURE
API 603 STEEL GLOBE VALVES - FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
API 604 FIRE TESTING OF TRIM 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/MSS 312 150# 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-SPR1 PRESSURE TESTING OF STEEL VALVES

Quality Assurance Department
Jessica Garcia Perez

FA-24 Rev. Original.