



WALWORTH

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.): EC040ADE1MR21BY

Fecha (Date): September 26, 2016

Clientes (Customer):

Partida (Customer Item):

No. Serie (Serial Number): 16C4907

No. De Tag (Tag Number):

No Pedido del Cliente (Customer PO Nr.):

Pedido interno No (Walworth Sales Nr.):

Línea de producto (Product line):

Tipo de válvula (Type of valve):

Díámetro (Nominal diameter):

Presión clase (Pressure class):

Cast Iron

Gate

4

125

Extremos (Ends):

Cuerpo (Shell):

Interiores (Trim):

Figura No (Figure Nr.):

FF

GRAY IRON

#E1 (BCE)

FIG W726

Operación (Operation):

Otros (Other requirements):

Partida (Item):

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

Parte (Component)	Material (Material)	Colada (Heat)	% P	% S	%	%	%	%	%	%	%	%	%	%	%	%	%
BONETE (BONNET)	ASTM_A_128_GR_B	C57B	0.044	0.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CUERPO (BODY)	ASTM_A_128_GR_B	C572	0.051	0.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DISCO 1 (DISC 1)	ASTM_A_128_GR_B	C53J	0.037	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PROPIEDADES MECANICAS (MECHANICAL TESTING)

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	1st	2nd	3rd	AVG
BONETE (BONNET)	C57B	NO APLICA NOT APPLICABLE	0.0000	41.7600	0	0	0	0	0	0	0	0	0
CUERPO (BODY)	C572	NO APLICA NOT APPLICABLE	0.0000	41.3250	0	0	0	0	0	0	0	0	0
DISCO 1 (DISC 1)	C53J	NO APLICA NOT APPLICABLE	0.0000	43.9350	0	0	0	0	0	0	0	0	0

PRUEBAS DE PRESIÓN DE ACUERDO CON MSS SP 70 (PRESSURE TEST IN ACCORDANCE WITH MSS SP 70)

TIPO DE PRUEBA (Type of test)	PRESION (Pressure) (Psi)	TIEMPO (Duration) (min)	RESULTADO (Result)	TIPO DE PRUEBA (Type of test)	RESULTADO (Result)
HIDROSTATICA DE CASCO (HYDROSTATIC SHELL)	350	0.5 min	ACEPTADO (ACCEPTED)		
PRUEBA HIDROSTATICA SELLO 1 (HIGH PRESSURE CLOSURE SIDE 1)	200	0.5 min	ACEPTADO (ACCEPTED)		
PRUEBA HIDROSTATICA SELLO 2 (HIGH PRESSURE CLOSURE SIDE 2)	200	0.5 min	ACEPTADO (ACCEPTED)		



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 608 METAL VALVE QUALIFICATION, THREADS AND WELDING
- API 609 METAL VALVE QUALIFICATION, THREADS AND WELDING
- API 607 PROCESS VALVE QUALIFICATION, THREADS AND WELDING
- API 603 STEEL GLOBE VALVES-FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
- ANSI B16.10 TYPE TESTING OF RISING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FLUGITIVE EMISSIONS
- ANSI B16.11 FORGED FITTINGS, SOCKETS, WELDING AND DRILLING
- ANSI B16.11 FORGED FITTINGS, SOCKETS, WELDING AND DRILLING
- ANSI B16.11 FORGED FITTINGS, SOCKETS, WELDING AND DRILLING
- ANSI B16.11 FORGED FITTINGS, SOCKETS, WELDING AND DRILLING
- MSS-SP81 PRESSURE TESTING OF STEEL VALVES

Signature

Quality Assurance Department
Yolanda Ponciano Montoya

FAC-24, Rev. Original.