



WALWORTH

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.): **EC040ADE1MR21BY** No. Serie (Serial Number): **16C4908**
Fecha (Date): **September 26, 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 Iron	Extremos (Ends):	FF
Tipo de válvula (Type of valve):	Gate	Cuerpo (Shell):	GRAY IRON
Díametro (Nominal diameter):	4	Interiores (Trim):	#E1 (BCE)
Presión clase (Pressure class):	125	Figura No (Figure Nr.):	FIG W726

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

Parte (Component)	Material (Material)	Colada (Heat)	% P	% S	% Mn	% Si	% Ni	% Cu	% Cr	% Mo	% Nb	% Ti	% N	% O	% H	% C
BONETE (BONNET)	ASTM_A_128_GR_B	C57B	0.044	0.058	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
DISCO 1 (DISC 1)	ASTM_A_128_GR_B	C57E	0.057	0.059	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 (Normalized & tempered)	Cedencia (Yield strength) (Kpsi)	Tensión (Tensile strength) (Kpsi)	Alar. En 2" (% min)	Reduccion de area (Reduction of area) (% min)	Dureza (Hardness) (Bhn)			Prueba Impacto (Impact Test) (Joules)				
							1st	2nd	3rd	1st	2nd	3rd	AVG	
BONETE (BONNET)	C57B	NO APLICA	0.0000	41.7500	0	0	0	0	0	0	0	0	0	0
CUERPO (BODY)	C572	NO APLICA	0.0000	41.3250	0	0	0	0	0	0	0	0	0	0
DISCO 1 (DISC 1)	C57E	NO APLICA	0.0000	41.0350	0	0	0	0	0	0	0	0	0	0

PRUEBAS DE PRESION 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 600 METAL VALVES, FLANGES, FORGED AND WELDING
API 601 PROCESS VALVE QUALIFICATION PROCESSED AND WELDING
API 603 STEEL GLOBE VALVES, FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
ANSI B16.10 TESTING OF FISHING STEEL VALVES EQUIPPED WITH GRAPHITE PACKING FOR FUBTIVE EMISSIONS
ANSI B16.11 TESTING OF STEEL VALVES EQUIPPED WITH GRAPHITE PACKING FOR FUBTIVE EMISSIONS
ANSI B16.12 FORGED FITTINGS, SOCKET, WELDING AND TAPERED
ANSI B16.13 FORGED FITTINGS, SOCKET, WELDING AND TAPERED
ANSI B16.14 TESTING OF STEEL VALVES EQUIPPED WITH GRAPHITE PACKING FOR FUBTIVE EMISSIONS
ANSI B16.15 TESTING OF STEEL VALVES EQUIPPED WITH GRAPHITE PACKING FOR FUBTIVE EMISSIONS
MSS-SP61 PRESSURE TESTING OF STEEL VALVES

Quality Assurance Department
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FAC-24 Rev. Original.