



**WALWORTH**

Industrial de Válvulas, S.A. de C. V.

Industria Ite 16 SN Fracc. Industrial el Trébol de  
Tapotzotlán, 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): **16C4874**

Fecha (Date): **September 26, 2018**

Clientes (Customer):

No. De Tag (Tag Number):

Partida (Customer Item):

No Pedido del Cliente (Customer PO Nr.):

Pedido interno No (Walworth Serie Nr.):

Partida (Item):

Línea de producto (Product line):

Tipo de válvula (Type of valve):

Diámetro (Nominal diameter):

Presión clase (Pressure class):

Extremos (Ends):

Cuerpo (Shell):

Interiores (Trim):

Figura No (Figure Nr.):

Operación (Operation):

Otros (Other requirements):

FF

GRAY IRON

#E1 (BCE)

FIG W726

**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	C57E	0.057	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	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)	Prueba Impacto (Impact Test) (Joules)
							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
CUERPO (BODY)	C572	NO APLICA NOT APPLICABLE	0.0000	41.3250	0	0	0 0	0 0 0 0
DISCO 1 (DISC 1)	C57E	NO APLICA NOT APPLICABLE	0.0000	41.0350	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 PLUG VALVES - FLANGED, THREADED AND WELDING
- API 605 STEEL GLOBE VALVES - FLANGED AND WELDING ENDS
- API 607 STEEL GLOBE VALVES - FLANGED AND WELDING ENDS
- API 608 STEEL GLOBE VALVES - FLANGED AND WELDING ENDS
- API 609 TYPE TESTING OF RUBING STEEL VALVES EQUIPPED WITH GRAPHITE PACKING FOR FLUGITIVE EMISSIONS
- ANSI B16.10 FACE TO FACE AND END TO END DIMENSIONS OF VALVES
- ANSI B16.34 FLANGED END CONNECTIONS FOR VALVES
- ANSI B16.47 DIMENSIONS AND WEIGHTS OF FLANGES
- ANSI B16.50 DIMENSIONS AND WEIGHTS OF FLANGES
- ANSI B16.51 DIMENSIONS AND WEIGHTS OF FLANGES
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- ANSI B16.99 DIMENSIONS AND WEIGHTS OF FLANGES
- ANSI B16.100 DIMENSIONS AND WEIGHTS OF FLANGES

Quality Assurance Department  
Yolanda Ponciano Montoya

FAC-24 Rev. Original.