



**WALWORTH**  
VALVES & FITTINGS

Industrial de Válvulas, S.A. de C.V.

Industria No. 16 S/N Fracc. Industrial el Trébol de Tepotzotlán, 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.): **ER080ADE1MRN1BY**

No. Serie (Serial Number): **16R2309**

Fecha (Date): **September 1, 2016**

No. De Tag (Tag Number):

Clientes (Customer Item):

No Pedido del Cliente (Customer PO Nr.):

Partida (Customer Item):

Pedido Interno No. (Walworth Sales Nr.):

Partida (Item):

Línea de producto (Product line):

Extremos (Ends):

Cast Iron

Operación (Operation):

Check Type Swing

GRAY IRON

Cuerpo (Shell):

Tipo de válvula (Type of valve):

Interiores (Trim):

#E1 (BCE)

Otros (Other requirements):

Diámetro (Nominal diameter):

Figura No. (Figure Nr.):

FIG W928

Presión clase (Pressure class):

FF

**COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)**

Parte (Component)	Material (Material)	Colada (Heat)	% C	% S	% Mn	% P	% S	% Mn	% P	% Mn	% P	% Mn	% P	% Mn	% P	% Mn	% P
CUERPO (BODY)	ASTM_A_128_GR_B	C5XT	0.055	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
DISCO 1 (DISC 1)	ASTM_A_128_GR_B	C58Y	0.052	0.066	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
TAPA 1 (COVER 1)	ASTM_A_128_GR_B	C58D	0.050	0.063	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
CUERPO (BODY)	C5XT	NO APLICA	0.0000	40.6000	0	0	0	0	0	0
DISCO 1 (DISC 1)	C58Y	NO APLICA	0.0000	37.8450	0	0	0	0	0	0
TAPA 1 (COVER 1)	C58D	NO APLICA	0.0000	41.7600	0	0	0	0	0	0

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)		
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)		



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 588 METAL PLUG VALVES - FLANGED, THREADED AND WELDING
- API 589 STEEL GLOBE VALVES - FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
- API 584 TYPE TESTING OF RISING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FUGITIVE EMISSIONS
- ANSI B16.1 FORGED STEEL FLANGES AND FLANGE FITTINGS
- ANSI B16.3 FORGED STEEL SOCKET WELDING ENDS AND TEE ENDS
- ANSI B16.11 FORGED STEEL GATE VALVES, GLOBE VALVES AND GLOBE CHECK VALVES
- ANSI B16.42 WELDED END STEEL BUTT-WELDING END ORGANS
- ANSI B16.47 FORGED STEEL BUTT-WELDING END ORGANS
- ANSI B16.51 FORGED STEEL BUTT-WELDING END ORGANS
- ANSI B16.52 FORGED STEEL BUTT-WELDING END ORGANS
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