



**WALWORTH**  
SINCE 1842

Industrial de Válvulas, S.A. de C.V.

Industria Ite 16 S/N Fracc. Industrial el Trébol de Tepicotlán, 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.): **AC080GA08MA2A1B+**

No. Serie (Serial Number): **V12EC17270**

Fecha (Date): August 25, 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):

Línea de producto (Product line):

RF Series A

Operación (Operation): Handwheel

Tipo de válvula (Type of valve):

Extremos (Ends):

WCB

Diámetro (Nominal diameter):

Cuerpo (Shell):

WCB

Presión clase (Pressure class):

Interiores (Trim):

#08 (LT)

Figura No (Figure Nr.):

Figura No (Figure Nr.):

FIG 5206

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

Parte (Component)	Material (Material)	Colada (Heat)	% C	% Mn	% P	% S	% Si	% Ni	% Cr	% Mo	% Cu	% V	%	%	%	%	%	%
BONETE (BONNET)	ASTM_A_216_GR_WCB	WH67786	0.193	0.820	0.029	0.013	0.467	0.051	0.034	0.005	0.035	0.001	0.000	0.000	0.000	0.000	0.000	0.000
CUERPO (BODY)	ASTM_A_216_GR_WCB	WH67883	0.201	0.860	0.032	0.015	0.500	0.068	0.079	0.004	0.042	0.001	0.000	0.000	0.000	0.000	0.000	0.000
DISCO 1 (DISC 1)	ASTM_A_216_GR_WCB	WH42824	0.202	0.951	0.027	0.008	0.479	0.043	0.044	0.004	0.037	0.007	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)	Reducción de área (Reduction of area) (% min)	Dureza (Hardness) (Bhn)			Prueba Impacto (Impact Test) (Joules)				
							1st	2nd	3rd	1st	2nd	3rd	AVG	
BONETE (BONNET)	WH67786	(910-940) °C, NORMALIZADO (RECOCIDO) 650 °C ENFRIAMIENTO CON AIRE (910-940) °C, NORMALIZE (ANNEAL) 650 °C AIR COOL	53.2150	86.8550	27	55	154	0	0	0	0	0	0	0
CUERPO (BODY)	WH67883	(910-940) °C, NORMALIZADO (RECOCIDO) 650 °C ENFRIAMIENTO CON AIRE (910-940) °C, NORMALIZE (ANNEAL) 650 °C AIR COOL	54.9550	81.4900	29	54	159	0	0	0	0	0	0	0
DISCO 1 (DISC 1)	WH42824	(910-940) °C, NORMALIZADO (RECOCIDO) 650 °C ENFRIAMIENTO CON AIRE (910-940) °C, NORMALIZE (ANNEAL) 650 °C AIR COOL	52.6550	88.0150	28	58	153	0	0	0	0	0	0	0

**PRUEBAS DE PRESIÓN DE ACUERDO CON API 598 (PRESSURE TEST IN ACCORDANCE WITH API 598)**

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)	1125	2 min	ACEPTADO (ACCEPTED)		
HIDROSTATICA DE CASQUILLO (HYDROSTATIC BACK SEAT)	1125	2 min	ACEPTADO (ACCEPTED)		
PRUEBA NEUMATICA SELLO 1 (LOW PRESSURE CLOSURE SIDE 1)	80	2 min	ACEPTADO (ACCEPTED)		
PRUEBA NEUMATICA SELLO 2 (LOW PRESSURE CLOSURE SIDE 2)	80	2 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 601 PROCESS VALVE QUALIFICATION PROCEDURES AND WELDING
- API 602 STEEL GLOBE VALVES-FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
- API 603 STEEL GLOBE VALVES-FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
- API 604 TYPE TESTING OF DRIBBING STEEL VALVES EQUIPPED WITH GRAPHITE PACKING FOR FLUORINE EMISSIONS
- ANSI B16.1 FORGED FITTINGS, SOCKET, WELDING AND THREADED
- ANSI B16.3 WELDED FITTINGS, SOCKET, WELDING AND THREADED
- ANSI B16.5 FORGED FITTINGS, SOCKET, WELDING AND THREADED
- ANSI B16.11 FORGED FITTINGS, SOCKET, WELDING AND THREADED
- ANSI B16.12 FORGED FITTINGS, SOCKET, WELDING AND THREADED
- ANSI B16.13 FORGED FITTINGS, SOCKET, WELDING AND THREADED
- ANSI B16.14 FORGED FITTINGS, SOCKET, WELDING AND THREADED
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- ANSI B16.97 FORGED FITTINGS, SOCKET, WELDING AND THREADED
- ANSI B16.98 FORGED FITTINGS, SOCKET, WELDING AND THREADED
- ANSI B16.99 FORGED FITTINGS, SOCKET, WELDING AND THREADED
- ANSI B16.100 FORGED FITTINGS, SOCKET, WELDING AND THREADED

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