



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.): **AC030BA08MAZA1XG** No. Serie (Serial Number): **V11KC0140**
 Fecha (Date): **August 23, 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 Steel	Extremos (Ends):	RF Series A	Operación (Operation):	Handwheel
Tipo de válvula (Type of valve):	Gate	Cuerpo (Shell):	WCB	Otros (Other requirements):	
Díametro (Nominal diameter):	3	Interiores (Trim):	#08 (UT)		
Presión clase (Pressure class):	150	Figura No (Figure Nr.):	FIG 5202		

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	H1535	0.191	0.821	0.023	0.021	0.392	0.061	0.052	0.003	0.052	0.001	0.000	0.000	0.000	0.000	0.000
CUERPO (BODY)	ASTM_A_216_GR_WCB	H1645	0.196	0.826	0.022	0.019	0.396	0.043	0.062	0.009	0.047	0.001	0.000	0.000	0.000	0.000	0.000
DISCO 1 (DISC 1)	ASTM_A_216_GR_WCB	1680	0.212	0.891	0.025	0.030	0.443	0.042	0.060	0.013	0.071	0.001	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)	H1535	(910-940) °C, NORMALIZADO (RECOCIDO) 650 °C ENFRÍAMIENTO CON AIRE AIR COOL	47.1250	75.4000	32	42	151	0	0	0	0	0	0
CUERPO (BODY)	H1645	(910-940) °C, NORMALIZADO (RECOCIDO) 650 °C ENFRÍAMIENTO CON AIRE AIR COOL	44.9500	75.4000	31	41	162	0	0	0	0	0	0
DISCO 1 (DISC 1)	1680	(910-940) °C, NORMALIZADO (RECOCIDO) 650 °C ENFRÍAMIENTO CON AIRE AIR COOL	42.1950	71.6300	25	39	168	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)	450	1 min	ACEPTADO (ACCEPTED)		
HIDROSTATICA DE CASQUILLO (HYDROSTATIC BACK SEAT)	450	1 min	ACEPTADO (ACCEPTED)		
PRUEBA NEUMATICA SELLO 1 (LOW PRESSURE CLOSURE SIDE 1)	80	1 min	ACEPTADO (ACCEPTED)		
PRUEBA NEUMATICA SELLO 2 (LOW PRESSURE CLOSURE SIDE 2)	80	1 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 599 METAL FLUE VALVES - FLANGED AND WELDING
- API 600 METAL FLUE VALVES - FLANGED AND WELDING ENDS, BOLTED BONNETS
- API 623 STEEL GLOBE VALVES-FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
- API 624 TYPE TESTING OF RISING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FLUGITIVE EMISSIONS
- ANSI B16.1 FORGED STEEL FLANGES AND FLANGE ENDS
- ANSI B16.3 FORGED FITTINGS, SOCKET WELDINGS AND THREADED
- ANSI B16.4 FORGED STEEL GLOBE VALVES
- ANSI B16.5 FORGED STEEL GATE VALVES
- ANSI B16.11 FORGED STEEL BALL VALVES
- ANSI B16.12 FORGED STEEL BUTT WELDING ENDS
- ANSI B16.13 FORGED STEEL GATE VALVES
- ANSI B16.14 FORGED STEEL GLOBE VALVES
- ANSI B16.15 FORGED STEEL CHECK VALVES
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- ANSI B16.100 FORGED STEEL CHECK VALVES

Quality Assurance Department
 Yolanda Ponciano Montoya

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