



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.): **AG020BA08MA2A1XG**

No. Serie (Serial Number): **V138G0872**

Fecha (Date): **September 29, 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):	Globe	Cuerpo (Shell):	WCB	Otros (Other requirements):	
Diámetro (Nominal diameter):	2	Interiores (Trim):	#08 (UT)		
Presión clase (Pressure class):	150	Figura No (Figure Nr.):	FIG 5275		

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

Parte (Component)	Material (Material)	Colada (Heat)	% C	% Mn	% P	% S	% Si	% Ni	% Cr	% Mo	% Cu	% V	% N	% O	% H	% S ₂	% S ₄	% S ₈
BONETE (BONNET)	ASTM_A_216_GR_WCB	H8296	0.195	0.984	0.023	0.020	0.428	0.026	0.029	0.010	0.028	0.007	0.000	0.000	0.000	0.000	0.000	0.000
CUERPO (BODY)	ASTM_A_216_GR_WCB	K1434	0.180	0.793	0.030	0.028	0.379	0.040	0.076	0.009	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	H1434	0.199	0.727	0.031	0.022	0.431	0.038	0.072	0.018	0.028	0.001	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" (Elong. in 2") (% min)	Reduccion de area (Reduction of area) (% min)	Dureza (Hardness) (Bhn)	Prueba Impacto (Impact Test) (Joules)
BONETE (BONNET)	H8296	(910-940) °C, NORMALIZADO (RECOCIDO) 850 °C ENFRIAMIENTO CON AIRE (910-940) °C, NORMALIZE (ANNEAL) 850 °C AIR COOL	46.1100	74.8200	28	49	162	0 0 0 0 0
CUERPO (BODY)	K1434	(910-940) °C, NORMALIZADO (RECOCIDO) 850 °C ENFRIAMIENTO CON AIRE (910-940) °C, NORMALIZE (ANNEAL) 850 °C AIR COOL	44.5150	72.2100	35	48	152	0 0 0 0 0
DISCO 1 (DISC 1)	H1434	(910-940) °C, NORMALIZADO (RECOCIDO) 850 °C ENFRIAMIENTO CON AIRE (910-940) °C, NORMALIZE (ANNEAL) 850 °C AIR COOL	45.5300	76.1250	34	46	170	0 0 0 0 0

PRUEBAS DE PRESION 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)	450	1 min	ACEPTADO (ACCEPTED)		
HIDROSTATICA DE CASQUILLO (HYDROSTATIC BACK SEAT)	450	1 min	ACEPTADO (ACCEPTED)		
PRUEBA HIDROSTATICA SELLO 1 (HIGH PRESSURE SIDE 1)	315	1 min	ACEPTADO (ACCEPTED)		
PRUEBA NEUMATICA SELLO 1 (LOW PRESSURE SIDE 1)	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 598 WELDED VALVES - FLANGED, THREADED AND WELDING
API 603 WELDED GLOBE VALVES - FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
API 623 STEEL GLOBE VALVES - FLANGED AND BUTT-WELDING ENDS, BOLTED PACKING FOR FUGITIVE EMISSIONS
ANSI B16.1 TYPE TESTING OF RISING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FUGITIVE EMISSIONS
ANSI B16.11 FORGED FITTINGS - SOCKET, WELDING AND THREADED
ANSI B16.12 FORGED FITTINGS - WELDING AND THREADED
ANSI B16.13 FORGED FITTINGS - WELDING AND THREADED
ANSI B16.14 FORGED FITTINGS - WELDING AND THREADED
ANSI B16.15 FORGED FITTINGS - WELDING AND THREADED
ANSI B16.16 FORGED FITTINGS - WELDING AND THREADED
ANSI B16.17 FORGED FITTINGS - WELDING AND THREADED
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Quality Assurance Department
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FAC-24 Rev. Original.