



Industrial de Válvulas, S.A. de C.V.

Industria de 16 S/N Fracc. Industrial el Trébol de Tepozotlán, Estado de México, México C.P. 54670

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): **16R2307**

Fecha (Date): **September 1, 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 Iron	Extremos (Ends):	FF
Tipo de válvula (Type of valve):	Check Type Swing	Cuerpo (Shell):	GRAY IRON
Diámetro (Nominal diameter):	8	Interiores (Trim):	#E1 (BCE)
Presión clase (Pressure class):	125	Figura No (Figure Nr.):	FIG W928
		Operación (Operation):	N/A
		Otros (Other requirements):	

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

Parte (Component)	Material (Material)	Colada (Heat)	% C	% S	% Mn	% P	% Si	% Ni	% Cu	% Cr	% Mo	% Nb	% Ti	% N	% O	% H	% As	% Sb	% Sn	% Bi	% Pb	% Zn	% Al	% Fe
CUERPO (BODY)	ASTM_A_128_GR_B	C59X	0.065	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DISCO 1 (DISC 1)	ASTM_A_128_GR_B	C4YV	0.310	0.110	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TAPA 1 (COVER 1)	ASTM_A_128_GR_B	C56C	0.048	0.059	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	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	AVG	1st	2nd	3rd	AVG	
CUERPO (BODY)	C59X	NO APLICABLE	0.0000	40.8900	0	0	0	0	0	0	0	0	0	0
DISCO 1 (DISC 1)	C4YV	NO APLICABLE	0.0000	38.5400	0	0	0	0	0	0	0	0	0	0
TAPA 1 (COVER 1)	C56C	NO APLICABLE	0.0000	39.7300	0	0	0	0	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 600 FORGED STEEL BALL VALVES, FLANGED AND WELDING
API 600 PROCESS VALVES, FLANGED AND WELDING ENDS, BOLTED BONNETS
API 603 STEEL GLOBE VALVES, FLANGED AND BUTT-WELDING BONNETS
API 604 TYPE TESTING OF RISING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FUGITIVE EMISSIONS
API 607 FORGED STEEL BALL VALVES, FLANGED AND WELDING ENDS, BOLTED BONNETS
ANSI B16.1 FORGED FITTINGS, SOCKET, WELDING AND THREADED
ASSURANCE MONTAJES 1500-1 MATERIALS FOR USE IN H2S-CONTAINING ENVIRONMENTS IN OIL AND GAS PRODUCTION
MSS-SP50 PRESSURE TESTING OF STEEL VALVES

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Quality Assurance Department
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