



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.): **EE040ADE1MR21BY** No. Serie (Serial Number): **16C7293**
 Fecha (Date): **September 15, 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	Operación (Operation):	Handwheel
Tipo de válvula (Type of valve):	Stem Gate Fixed	Cuerpo (Shell):	GRAY IRON	Otros (Other requirements):	
Diámetro (Nominal diameter):	4	Interiores (Trim):	#E1 (BCE)		
Presión clase (Pressure class):	125	Figura No (Figure Nr.):	FIG W719		

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

Parte (Component)	Material (Material)	Colada (Heat)	% P	% S	%	%	%	%	%	%	%	%	%	%	%	%	%
BONETE (BONNET)	ASTM_A_126_GR_B	C65J	0.084	0.088	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
CUERPO (BODY)	ASTM_A_126_GR_B	C4Y1	0.030	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
DISCO 1 (DISC 1)	ASTM_A_126_GR_B	C65G	0.093	0.071	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 (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	Prueba Impacto (Impact Test) (Joules) 1st 2nd 3rd AVG
BONETE (BONNET)	C65J	NO APLICA NOT APPLICABLE	0.0000	31.1750	0	0	0 0	0 0 0 0
CUERPO (BODY)	C4Y1	NO APLICA NOT APPLICABLE	0.0000	40.6000	0	0	0 0	0 0 0 0
DISCO 1 (DISC 1)	C65G	NO APLICA NOT APPLICABLE	0.0000	32.6250	0	0	0 0	0 0 0 0

PRUEBAS DE PRESIÓN DE ACUERDO CON MSS SP 70 (PRESSURE TEST IN ACCORDANCE WITH MSS SP 70)

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)		
PRUEBA HIDROSTATICA SELLO 2 (HIGH PRESSURE CLOSURE SIDE 2)	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 601 USE OF PRESSURE TESTING PROCEDURES AND WELDING
- API 603 USE OF PRESSURE TESTING PROCEDURES AND WELDING
- API 681 PROCESS VALVE QUALIFICATION PROCEDURES AND WELDING
- API 623 STEEL GLOBE VALVES—FLANGED AND BUTT-WELDED ENDS, BOLTED BONNETS
- API 602 STEEL GATE VALVES—FLANGED AND BUTT-WELDED ENDS, BOLTED BONNETS
- ANSI B16.10 PACKING OF PIPING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FUGITIVE EMISSIONS
- ANSI B16.11 FORGED FITTINGS, SOCKET-WELDING AND THREADED
- ANSI B16.11 FORGED FITTINGS, SOCKET-WELDING AND THREADED
- AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) B16.34 FORGED FITTINGS FOR USE IN HIGH-PRESSURE ENVIRONMENTS IN OIL AND GAS PRODUCTION
- MSS-SP61 PRESSURE TESTING OF STEEL VALVES

[Signature]

Quality Assurance Department
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FAC-24 Rev. Original.