



WALWORTH
SPECIALTY VALVES

Industrial de Válvulas, S.A. de C.V.

Industria Ite 16 S/N Fracc. Industrial el Trébol de Tepiczoatlán, 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**
Fecha (Date): September 15, 2016
Clientes (Customer): _____
Partida (Customer Item): _____

No. Serie (Serial Number): **16C7298**
No. De Tag (Tag Number): _____
No Pedido del Cliente (Customer PO 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	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)	ASTM_A_126_GR_B	C65J	0.084	0.089	0.000	0.000	0.000	0.000	0.000
CUERPO (BODY)	ASTM_A_126_GR_B	C65R	0.082	0.078	0.000	0.000	0.000	0.000	0.000
DISCO 1 (DISC 1)	ASTM_A_126_GR_B	C65G	0.083	0.071	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)
BONETE (BONNET)	C65J	NO APLICA	0.0000	31.1750	0	0	0	0
CUERPO (BODY)	C65R	NOT APPLICABLE	0.0000	31.1750	0	0	0	0
DISCO 1 (DISC 1)	C65G	NOT APPLICABLE	0.0000	32.6250	0	0	0	0

PRUEBAS DE PRESION 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 589 METAL PLUG VALVES - FLANGED, THREADED AND WELDING
- API 591 PRESSURE OBTAINING VALVES - FLANGED AND BUTT WELDING ENDS, BOLTED BONNETS
- API 594 PRESSURE OBTAINING VALVES - FLANGED AND BUTT WELDING ENDS, BOLTED BONNETS
- API 624 TYPE TESTING OF RISING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FLUGITIVE EMISSIONS
- ANSI B16-10 FACE TO FACE AND END TO END DIMENSIONS OF VALVES
- ANSI B16-34 FLANGED END TO END DIMENSIONS OF VALVES
- ANSI/AISC M07/SS0 15198-1 MATERIALS FOR USE IN H2S-CONTAINING ENVIRONMENTS IN OIL AND GAS PRODUCTION
- NACE MR0103 MATERIAL RESISTANT TO SULFIDE STRESS CRACKING IN CORROSIVE PETROLEUM ENVIRONMENT
- MSS-SP61 PRESSURE TESTING OF STEEL VALVES

[Signature]

Quality Assurance Department
Yolanda Ponciano Montoya
FAC-24 Rev. Original.