



WALWORTH  
SINCE 1842

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. 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.): **EC030ADE1MR21BY** No. Serie (Serial Number): **16C5288**  
 Fecha (Date): **September 21, 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):	Gate	Cuerpo (Shell):	GRAY IRON	Otros (Other requirements):	
Diámetro (Nominal diameter):	3	Interiores (Trim):	#E1 (BCE)		
Presión clase (Pressure class):	125	Figura No (Figure Nr.):	FIG W726		

**COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)**

Parte (Component)	Material (Material)	Colada (Heat)	% P	% S	%	%	%	%	%	%	%	%	%	%	%	%
BONETE (BONNET)	ASTM_A_126_GR_B	C54A	0.056	0.057	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	C58C	0.051	0.053	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	C53H	0.029	0.062	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)	C54A	NO APLICA	0.0000	41.4700	0	0	0 0	0 0 0 0
CUERPO (BODY)	C58C	NOT APPLICABLE	0.0000	36.5400	0	0	0 0	0 0 0 0
DISCO 1 (DISC 1)	C53H	NOT APPLICABLE	0.0000	39.5850	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)		



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

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 PLUG VALVES - FLANGED, THREADED AND WELDING  
 API 594 PROCESS VALVE QUALIFICATION PROCEDURE  
 MSS SP-87 METAL PLUG VALVES WITH GRAPHITE PACKING FOR FUGITIVE EMISSIONS  
 API 604 TYPE TESTING OF RISING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FUGITIVE EMISSIONS  
 ANSI B16-10 FACE TO FACE AND END TO END DIMENSIONS OF VALVES  
 ANSI B16-11 FORGED FITTINGS, SOCKET, WELDING AND THREADED  
 MSS SP-61 PRESSURE TESTING OF STEEL VALVES  
 NACE MR0103 MATERIAL RESISTANT TO SULFIDE STRESS CRACKING IN CORROSIVE PETROLEUM ENVIRONMENT  
 MSS-SP61 PRESSURE TESTING OF STEEL VALVES