



Industrial de Válvulas, S.A. de C.V.

Industria Ite 16 S/N Fracc. Industrial el Trébol de Topotztlán, 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.): **ER080ADE1MRN1B1Y** No. Serie (Serial Number): **16R2314**
 Fecha (Date): **September 27, 2016** No. De Tag (Tag Number):
 Clientes (Customer): **PLESA ANAHUAC Y CIAS, S A DE C.V.** No Pedido del Cliente (Customer PO Nr.): **24176**
 Partida (Customer Item): **1** Pedido Interno No (Walworth Sales Nr.): **D000060586** Partida (Item): **1**

Linea de producto (Product line):	Extremos (Ends):	FF	Operación (Operation):	N/A
Tipo de válvula (Type of valve):	Cuerpo (Shell):	GRAY IRON	Otros (Other requirements):	
Diámetro (Nominal diameter):	Interiores (Trim):	#E1 (BCE)		
Presión class (Pressure class):	Figura No (Figure Nr.):	FIG W928		

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

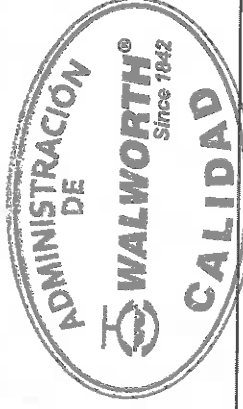
Parte (Component)	Material (Material)	Colada (Heat)	% C	% S	% Mn	% P	% Si	% Ni	% Cu	% Cr	% Mo	% Nb	% Ti	% N	% O	% H	% As	% Sb	% Sn	% Bi	% Pb	% Zn	% Al	% Fe
CUERPO (BODY)	ASTM_A_126_GR_B	C5XT	0.065	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DISCO 1 (DISC 1)	ASTM_A_126_GR_B	C56Y	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TAPA 1 (COVER 1)	ASTM_A_126_GR_B	C59D	0.050	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	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
CUERPO (BODY)	C5XT	NO APLICA	0.0000	40.6000	0	0	0	0	0	0	0	0	0	0
DISCO 1 (DISC 1)	C56Y	NO APLICA	0.0000	37.8450	0	0	0	0	0	0	0	0	0	0
TAPA 1 (COVER 1)	C59D	NO APLICA	0.0000	41.7600	0	0	0	0	0	0	0	0	0	0

PRUEBAS DE PRESIÓN DE ACUERDO CON MSS SP 71 (PRESSURE TEST IN ACCORDANCE WITH MSS SP 71)

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)		



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 603 METAL FLUG VALVES - FLANGES, THREADS AND WELDING
- API 607 METAL FLUG VALVES - PACKING
- API 609 METAL FLUG VALVES - BOLTED BONNETS
- API 610 METAL FLUG VALVES - PACKING
- API 617 TYPE TESTING OF IRISING STEEL VALVES EQUIPPED WITH PACKING FOR FUGITIVE EMISSIONS
- ANSI B16.10 FACE TO FACE AND END TO END DIMENSIONS OF VALVES
- ANSI B16.34 FLANGES FOR USE IN HIGH-CORROSION SERVICE
- ANSI B16.35 FLANGES FOR USE IN CORROSION RESISTANT SERVICE
- ANSI B16.36 FLANGES FOR USE IN CORROSION RESISTANT SERVICE
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[Signature]

Quality Assurance Department
 Yolanda Ponciano Montoya

FAC-24 Rev. Original.