



Industrial de Válvulas, S.A. de C.V.

Industria Ite 16 S/N Fracc. Industrial el Trébol de Tepotzotlán, 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.): **ER080ADE1MRN1BY** No. Serie (Serial Number): **16R2717**
 Fecha (Date): **October 6, 2016** No. De Tag (Tag Number): _____
 Clientes (Customer): **PLESA ANAHUAC Y GAS, S.A DE C.V.** No. Pedido del Cliente (Customer PO Nr.): **24310**
 Partida (Customer Item): **9** Pedido Interno No (Walworth Sales Nr.): **D000060612** Partida (Item): **19**

Linea de producto (Product line): _____ Operación (Operation): **N/A**
 Tipo de válvula (Type of valve): _____ Check Type Swing: **GRAY IRON**
 Diámetro (Nominal diameter): **8** Interiores (Trim): **#E1 (BCE)**
 Presión clase (Pressure class): **125** Figura No (Figure Nr.): **FIG W928**
 Otros (Other requirements): _____

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

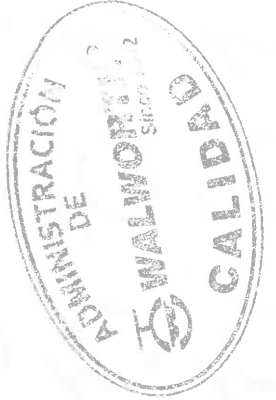
Parte (Component)	Material (Material)	Colada (Heat)	% C	% Mn	% P	% S	% Si	% Ni	% Cr	% Cu	% Mo	% Nb	% Ti	% N	% O	% H	% As	% Sb	% Sn	% Bi	% Pb	% Zn	% Al	% Fe
CUERPO (BODY)	ASTM_A_126_GR_B	C66Y	0.088	0.052	0.088	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DISCO 1 (DISC 1)	ASTM_A_126_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_126_GR_B	C66Y	0.088	0.052	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)			Prueba Impacto (Impact Test) (Joules)														
							1st	2nd	AVG	1st	2nd	3rd	AVG											
CUERPO (BODY)	C66Y	NO APLICA	0.0000	38.4100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DISCO 1 (DISC 1)	C4YV	NOT APPLICABLE	0.0000	38.5400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPA 1 (COVER 1)	C66Y	NOT APPLICABLE	0.0000	38.4100	0	0	0	0	0	0	0	0	0	0	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 899 METAL PLUG VALVES - FLANGED, THREADED AND WELDING
 API 892 STEEL GLOBE VALVES - FLANGED AND BUTTWELDING ENDS, BOLTED BONNETS
 API 893 STEEL GLOBE VALVES - FLANGED AND BUTTWELDING ENDS, BOLTED BONNETS
 API 894 TYPE TESTING OF RISING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FLUGITIVE EMISSIONS
 ANSI B16.1 FORGED STEEL FLANGES AND FLANGE FITTINGS
 ANSI B16.11 FORGED FITTINGS, SOCKETS AND END CONNECTIONS
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 MSS-SP-61 PRESSURE TESTING OF STEEL VALVES

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