



Industrial de Válvulas, S.A. de C.V.

CERTIFICATE OF MATERIALS & TEST REPORT (CMTR)
 (CERTIFICADO DE CALIDAD DE MATERIALES Y REPORTE DE PRUEBAS CMTR)
 ACCORDING TO EN 10204 TYPE 3.1

Industria Ite 16 S/N Fracc. Industrial el Trébol de
 Tapotzotlán, Estado de México, México C.P. 54610

No. código interno (Product Code Nr.): **ER080ADE1MRN1B1Y** No. Serie (Serial Number): **16R2715**
 Fecha (Date): **October 6, 2016** No. De Tag (Tag Number): _____
 Clientes (Customer): **PLESA ANAHUAC Y CIAS, 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**

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

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

Parte (Component)	Material (Material)	Colada (Heat)	% P	% S	%	%	%	%	%	%	%	%	%	%
CUERPO (BODY)	ASTM_A_126_GR_B	C66Y	0.088	0.052	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DISCO 1 (DISC 1)	ASTM_A_126_GR_B	C557	0.050	0.070	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
TAPA 1 (COVER 1)	ASTM_A_126_GR_B	C66Y	0.088	0.052	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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)		
						1st	2nd	1st	2nd	3rd	AVG		
CUERPO (BODY)	C66Y	NO APLICA	0.0000	38.4100	0	0	0	0	0	0	0	0	0
DISCO 1 (DISC 1)	C557	NO APLICA	0.0000	36.2500	0	0	0	0	0	0	0	0	0
TAPA 1 (COVER 1)	C66Y	NO APLICA	0.0000	38.4100	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)
HIESTRATICA DE CASCO (HYDROSTATIC SHELL)	350	0.5 min	ACEPTADO (ACCEPTED)		
PRUEBA HIDROSTATICA SELLOT (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 uno 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 600 STEEL GLOBE VALVES - FLANGED AND BUTTWELDING ENDS; BOLTED BONNETS
 API 602 STEEL GLOBE VALVES - FLANGED AND BUTTWELDING ENDS
 API 604 TYPE TESTING OF FISING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FLUGTIVE EMISSIONS
 API 607 STEEL GLOBE VALVES - FLANGED AND BUTTWELDING ENDS
 ANSI B16.1 FORGED FITTINGS, SOCKET, WELDING AND THREADED
 ANSIRAMA MRN172/ISO 15136-1 MATERIALS FOR USE IN H2S-CONTAINING ENVIRONMENTS IN OIL AND GAS PRODUCTION
 ISO 15136-1 MATERIALS FOR USE IN H2S-CONTAINING ENVIRONMENTS IN OIL AND GAS PRODUCTION
 MSS-SP-91 PRESSURE TESTING OF STEEL VALVES

[Signature]

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