



Industrial de Válvulas, S.A. de C.V.

Industria Ite 16 S/N Fracc. Industrial el Trébol de Tapotzotlán, 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): **16R2710**
 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**

Linea de producto (Product line): **Cast Iron** Extremos (Ends): **FF** Operación (Operation): **N/A**
 Tipo de válvula (Type of valve): **Check Type Swing** Cuerpo (Shell): **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 %)

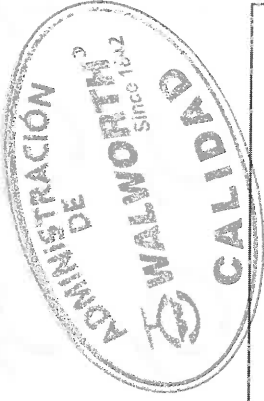
Parte (Component)	Material (Material)	Colada (Heat)	% C	% S	% P	% Mn	% Si	% Ni	% Cu	% Cr	% Mo	% Nb	% Ti	% N	% O	% H	% As	% Sb	% Sn	% Bi	% Pb	% Zn	% Al	% Fe
CUERPO (BODY)	ASTM_A_126_GR_B	C66Y	0.088	0.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DISCO 1 (DISC 1)	ASTM_A_126_GR_B	C51P	0.027	0.074	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
TAPA1 (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 (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	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)	C51P	NO APLICA	0.0000	37.9900	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	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

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 SELLOT (HIGH PRESSURE CLOSURE SIDE 1)	200	0.5 min	ACEPTADO (ACCEPTED)		



[Signature]

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 600 METAL GLOBE VALVES - FLANGED AND BUTTWELDING ENDS, BOLDED BONNETS
 API 603 STEEL GLOBE VALVES - FLANGED AND BUTTWELDING ENDS, BOLDED BONNETS
 API 604 TYPE TESTING OF RISING STEM VALVES EQUIPPED WITH GRAPHITE PACKING FOR FUGITIVE EMISSIONS
 API 607 METAL GATE VALVES - FLANGED AND BUTTWELDING ENDS, BOLDED BONNETS
 ANSI B16.1 FORGED FITTINGS, SOCKET END CONNECTIONS OF VALVES
 ANSI B16.11 FORGED FITTINGS, SOCKET END CONNECTIONS OF VALVES
 ANSI B16.34 FLANGED END CONNECTIONS OF VALVES
 NACE MR0175/ISO 15156-1 MATERIALS FOR USE IN H₂S-CONTAINING ENVIRONMENTS IN OIL AND GAS PRODUCTION
 MSS-SP-91 PRESSURE TESTING OF STEEL VALVES

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