



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): **16R2725**
 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): **FF** Operación (Operation): **N/A**
 Tipo de válvula (Type of valve): **Check Type Swing** Otros (Other requirements):
 Diámetro (Nominal diameter): **8** #E1 (BCE)
 Presión clase (Pressure class): **125** FIG W928

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

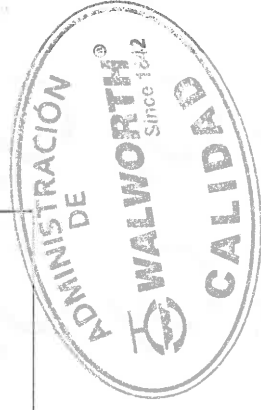
Parte (Component)	Material (Material)	Colada (Heat)	% P	% S	%	%	%	%	%	%	%	%	%	%	%	%	
CUERPO (BODY)	ASTM_A_125_GR_B	C66Y	0.068	0.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DISCO 1 (DISC 1)	ASTM_A_125_GR_B	C48T	0.045	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TAPA 1 (COVER 1)	ASTM_A_125_GR_B	C66Y	0.068	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

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
DISCO 1 (DISC 1)	C48T	NO APLICA	0.0000	46.5450	0	0	0	0	0	0
TAPA 1 (COVER 1)	C66Y	NO APLICA	0.0000	38.4100	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)	TIEMPO (Duration) (min)	TIPO DE PRUEBA (Type of test)	RESULTADO (Result)
HIDROSTATICA DE CASCO (HYDROSTATIC SHELL)	0.5 min	ACEPTADO (ACCEPTED)	ACEPTADO (ACCEPTED)
PRUEBA HIDROSTATICA SELLO 1 (HIGH PRESSURE CLOSURE SIDE 1)	0.5 min	ACEPTADO (ACCEPTED)	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 600 FORGED STEEL VALVES AND WELDING
 API 601 PROCESS VALVE QUALIFICATION PROCEDURE
 API 602 STEEL GLOBE VALVES—FLANGED AND BUTT-WELDING ENDS, BOLTED BONNETS
 API 603 STEEL GLOBE VALVES—FLANGED AND BUTT-WELDING ENDS, SOCKET-WELDING BONNETS
 ANSI B16-10 FACE TO FACE AND END TO END DIMENSIONS OF VALVES
 ANSI B16-11 FORGED FITTINGS, SOCKET-WELDING AND THREADED
 ANSI/ASME B73.1-1985 (1996) STEEL VALVES FOR USE IN SERVICES CONTAINING ENVIROMENTS IN OIL AND GAS PRODUCTION
 MSS-SP81 PRESSURE TESTING OF STEEL VALVES
 MSS-SP87 PRESSURE TESTING OF STEEL VALVES

[Signature]

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