



Industrial de Válvulas, S.A. de C.V.

Industria Ite 16 S/N Fracc. Industrial el Trébol de Tepozotlán, 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.): **EC080ADE1MR21BY** No. Serie (Serial Number): **16C6212**
 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): **5** Pedido Interno No. (Walworth Sales Nr.): **D000060612** Partida (Item): **5**

Línea de producto (Product line):
 Tipo de válvula (Type of valve):
 Diámetro (Nominal diameter):
 Presión clase (Pressure class):

Extremos (Ends):
 Cuerpo (Shell):
 Interiores (Trim):
 Figura No. (Figure Nr.):

Operación (Operation):
 Otros (Other requirements):

COMPOSICION QUIMICA EN % (CHEMICAL COMPOSITION %)

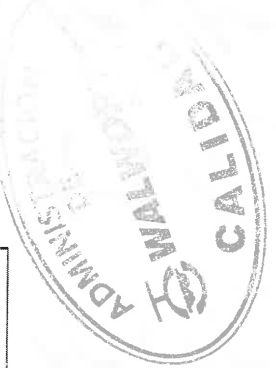
Parte (Component)	Material (Material)	Colada (Heat)	% P	% S	%	%	%	%	%	%	%	%	%	%	%	%	%
BONETE (BONNET)	ASTM_A_125_GR_B	C53G	0.023	0.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CUERPO (BODY)	ASTM_A_125_GR_B	C53G	0.023	0.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DISCO 1 (DISC 1)	ASTM_A_125_GR_B	C4ZC	0.520	0.096	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" (% min)	Reduccion de area (Reduction of area) (% min)	Dureza (Hardness) (Bhn)	Prueba Impacto (Impact Test) (Joules)
							1st 2nd	1st 2nd 3rd AVG
BONETE (BONNET)	C53G	NO APLICA	0.0000	40.8900	0	0	0 0	0 0 0 0
CUERPO (BODY)	C53G	NO APLICA	0.0000	40.8900	0	0	0 0	0 0 0 0
DISCO 1 (DISC 1)	C4ZC	NO APLICA	0.0000	36.4100	0	0	0 0	0 0 0 0

PRUEBAS DE PRESIÓN DE ACUERDO CON MSS SP 70 (PRESSURE TEST IN ACCORDANCE WITH MSS SP 70)

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 SELLO1 (HIGH PRESSURE CLOSURE SIDE 1)	200	0.5 min	ACEPTADO (ACCEPTED)		
PRUEBA HIDROSTATICA SELLO2 (HIGH PRESSURE CLOSURE SIDE 2)	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 588 METAL PLUG VALVES, FLANGED, THREADED AND WELDING
- API 581 PROCESS VALVE QUALIFICATION PROCEDURE
- ANSI B16.3 VALVE END CONNECTIONS
- ANSI B16.10 FACE TO FACE AND END TO END DIMENSIONS OF VALVES
- ANSI B16.11 FORGED FITTINGS, SOCKET-WELDING AND THREADED
- ASME B31.3 PROCESS PIPING SYSTEMS
- ASME B31.4 TRANSMISSION PIPELINES
- ASME B31.12 PROCESS HEAT EXCHANGERS AND BUTT-WELDING ENDS
- ASME B31.15 VALVE ACTUATING DEVICES
- ASME B31.16 VALVE ACTUATING DEVICES
- ASME B31.17 VALVE ACTUATING DEVICES
- ASME B31.18 VALVE ACTUATING DEVICES
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- ASME B31.99 VALVE ACTUATING DEVICES
- ASME B32.00 VALVE ACTUATING DEVICES

[Signature]

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