



INSPECTION AND TEST CERTIFICATE  
EN-10204-3.1

VELAN INC.  
7007 Cote de Liesse  
Montreal

Customer Name : EMCO CORP  
Valve Type : Stop Globe  
Figure Number : W05-8076Z-02TS  
Description :

Order :  
Line : 2  
Size : 1" (25 mm)  
Pressure Class : 1690 Class  
Quantity : 36

Certificate : VC00012205  
Date : 3/28/2019

HYDROSTATIC TEST

Test Standard : API-598

Hydro Test Results : ACCEPTABLE

Other Test : ACCEPTABLE

Test Type	Shell	Packing	Seat (H.P.)	Seat (L.P.)	Backseat
Duration (sec)	15	15	15	N/A	15
Pressure (psig)	6275	6275	4600	N/A	4600
Result	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	N/A	ACCEPTABLE

A105-10--

Heat Code	Unit	CHEMICALS										MECHANICALS						
		CE	C	Cr	Cu	Mn	Mo	Ni	P	S	Si	V	ELONG (%)	HS 1 (HB)	HS 2 (HB)	RED (%)	UTS (ksi)	YIELD (ksi)
MMFAZI	BODY	0.39	0.22	0.015	0.002	1.01	0.005	0.004	0.027	0.017	0.24	0.002	35.36	156	167	64.57	75.56	51.92

A105-14--

Heat Code	Unit	CHEMICALS										MECHANICALS						
		CE	C	Cr	Cu	Mn	Mo	Ni	P	S	Si	V	ELONG (%)	HS 1 (HB)	HS 2 (HB)	RED (%)	UTS (ksi)	YIELD (ksi)
MMUPSS	BODY	0.45	0.24	0.16	0.015	1.03	0.005	0.018	0.022	0.022	0.21	0.001	24	149	179	59.04	86.3	63.82
MMXRW1	BODY	0.43	0.233	0.163	0.018	0.98	0.007	0.02	0.008	0.019	0.185	0.001	24	149	179	59.04	87.46	63.82
MMXSXI	BODY	0.43	0.23	0.167	0.017	1	0.007	0.019	0.011	0.023	0.195	0.001	26	149	179	59.04	88.62	64.98



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TEST REPORT (EN 10204 - 2.1)

Valve Item	Specification
DISC	COBALT ALLOYS
NUTS	ASTM-A194 2H
STUD	ASTM-A193 B7

All Velan Valves are tested in accordance with specification required by the design. Valves designed to API specifications API 594, API 600, API 602, API 603, API 608, API 609 and API 623 are tested to API 598. Valves designed to B16.34 are tested to B16.34 and MSS-SP-61.

All materials are dually certifiable to ASTM / ASME.

The header information on this certificate (including customer name, valve description, figure number, and quantity) has been entered by the user of this application and he/she is therefore responsible for the accuracy of the data.

Velan certifies that valve(s) described above are in compliance with the requirements of the identified standards and specifications. This report is based on actual test results of chemical and mechanical properties as well as hydrostatic test, and is in compliance with EN 10204 3.1.

Victor Apostolescu  
Vice President, QA