



FLUID CONTROLS PVT. LTD

T-169, MIDC, Bhosari, Pune-411026.

**VALVE LOW/CRYOGENIC TEMPRATURE TEST REPORT**

Item Code / Description:-NEEDLE VALVE		Pressure Rating/Class:-PN 400	
Valve Size:-1/2" BSP FEMALE		Test Procedure no:- FC/GL/23/00	
Type:-NEEDLE TYPE		Date:- 28/11/2015	
Sr No:-241115-01			
Material Grade:-A479 SS316		Cooling Media:-	Liquid Nitrogen
Equipment Used :- Fluid Controls Cryogenic Test Setup			

**Test Observation Table:-**

Time in Min	Ambient Temp.(° C)	Chamber Temp.(° C)	Valve Temp.(° C)	Testing			
<b>Pre Cryo Test</b>					Pressure (Bar)	Hold Time.(min)	Observation
Start	28.5	Out of Chamber	28.7	Hydrostatic Seat Test	440	1	No Leak
		28.9		Hydrostatic Shell Test	660	1	No Leak
				Pneumatic Seat Test	40	1	No Leak
				Pneumatic Shell Test	-	-	No Leak
<b>During Cryo Test</b>							
5	28.5	20	20	Pneumatic Seat Test	40	Gradually increase from 0 to 3 minutes	No Leak
10	28.6	10	9.9				
15	28.8	4	4.2				
20	28.8	-3	-3				
25	28.8	-13	-12.8				
30	28.7	-21	-21.3				
35	29	-30	-29.9				
40	29.1	-38	-37.9				
45	29.3	-45	-44.9				
75	29.3	-45.1	-45.5				
80	29.5	-45.2	-45.6	Pneumatic Shell Test		10 Minutes	No Leak
<b>Post Cryo Test</b>							
End	31	Out of Chamber	28.7	Hydrostatic Seat Test	440	1	No Leak
		28.9		Hydrostatic Shell Test	660	1	No Leak
				Pneumatic Seat Test	40	1	No Leak
				Pneumatic Shell Test	-	-	No Leak

Remark:- Valve Successfully passed the test

*[Signature]*  
Tested By

*[Signature]*  
Reviewed by

*[Signature]*  
Approved/Witnessed By

