



**MATERIAL OF CONSTRUCTION**

S.NO.	PART NAME	QTY.	MATERIAL
1	BODY	1	ASTM A182/F316
2	STEM	1	AISI316/A276 . STELLITED V TIP
3	PANNEL NUT	1	AISI316 /A276
4	GLAND NUT	1	
5	WASHER	1	
6	PACKING	1	PTFE/GRAPHOIL
7	PACKING WASHER	1	AISI316/A276
8	GRUB SCREW	1	STEEL PLATED
9	HANDLE	1	AISI304 . ALU.COATED

**FEATURES:**  
 316 SS CONSTRUCTION FOR CORROSION RESISTANCE.  
 EXCELLENT FLOW REGULATION & LEAK TIGHT.  
 ONE PIECE BODY CONSTRUCTION. NO WELDING USED.

**TESTING:**  
 STANDARD TEST: - EACH VALVES IS TESTED WITH NITROGEN AT 1000 PSI FOR SEAT & PACKING LEAKAGE, WITH A MAX. ALLOWABLE LEAK RATE OF 0.1 SEC. / MIN.  
 HYDRO TEST: - PERFORMED WITH PURE WATER AT 1-1/2 TIMES OF THE WORKING PRESSURE.

**LUBRICATION:**  
 MOLLY ANTI-SEIZE LUBRICANT.

**NOTES: -**  
 OPTIONAL GRAPHOIL PACKING AVAILABLE FOR HIGH TEMPERATURE APPLICATION . SERIES OF END CONNECTIONS LIKE MALE/FEMALE NPT, BSP PIPE THREADED ENDS WITH STRAIGHT PATTERN. PANEL NUT STD.  
 VALVE CAN BE SUPPLIED TO MEET CURRENT REVISION OF NACE MR-01-75. (SOURGAS SERVICE)  
 DIMENSIONS ARE FOR REFERENCE ONLY. SUBJECT TO CHANGE.

TECHNICAL DATA				TABLE OF DIMENSION				
Pr. Rat.	Temp.Rat.	Cv	ORIFICE	P-THREADS NPTF/BSPF/BSPTF	A	D-DIA	H OPEN HT.	L
6000 PSI (41300 kpa)	PTFE -20 to 250° F (-29° to 121°C)	0.65	5 mm.	1/4"	47.5	20	55	50
				3/8"		27	70	
	GRAFOIL -20 to 600° F (-29° to 315°C)	0.80	6.5mm.	1/2"	65	31	80	70
				3/4"		38	90	
		1.90	9.5mm.	1"	84	43.5	110	

TITLE: - "FB" SERIES NEEDLE VALVE- F X F			
DRN.		SCALE	N.T.S.
CHD.	<b>DJS</b>	DATE	<b>16/03/2010</b>
APPD.		<b>DRG. NO. P/INV-FB-FF</b>	
<b>PIONEER INDUSTRIES</b> ISO 9001 - 2008			