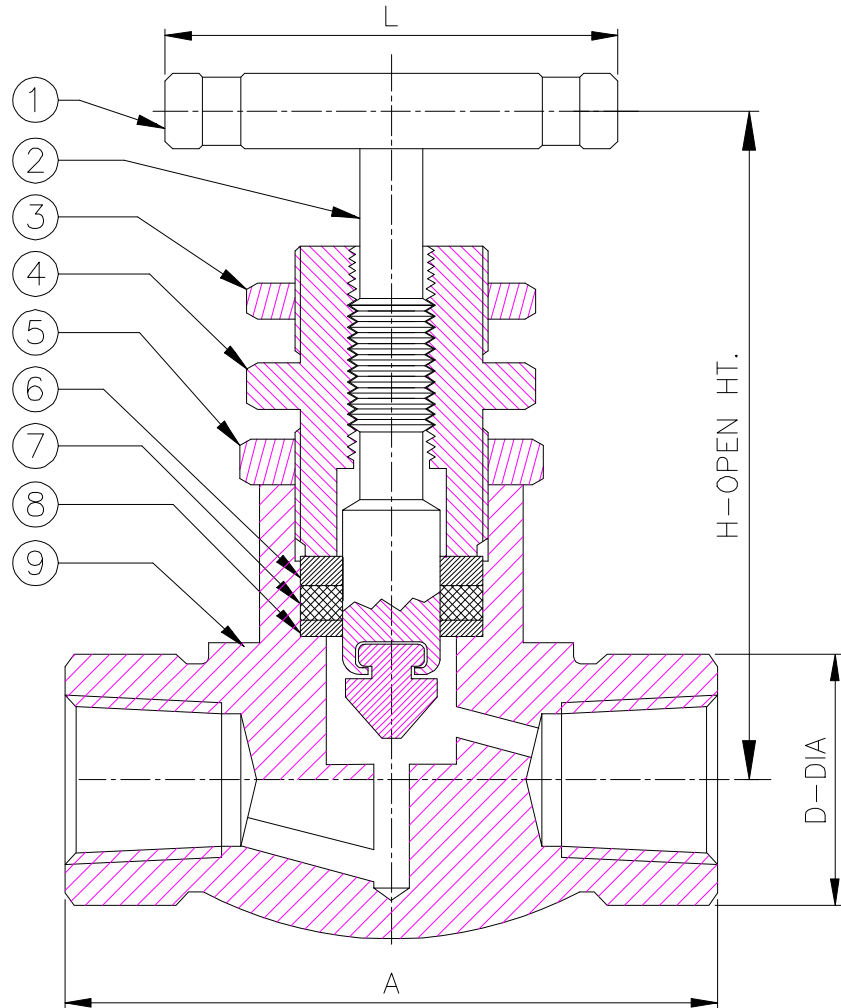


IF IN DOUBT, PLEASE ASK



### PARTS LIST

| S.NO. | PART NAME     | QTY. | MATERIAL                |
|-------|---------------|------|-------------------------|
| 1     | HANDLE        | 1    | AISI304 . ALU.COATED    |
| 2     | STEM          | 1    | S.S.316 STELLITED V TIP |
| 3     | PANEL NUT     | 1    | AISI316 /A276           |
| 4     | BONNET        | 1    |                         |
| 5     | LOCKNUT       | 1    |                         |
| 6     | GLAND         | 1    |                         |
| 7     | GLAND PACKING | 1    | PTFE/GRAPHOIL           |
| 8     | GLAND WASHER  | 1    | AISI316                 |
| 9     | BODY          | 1    | ASTM A182/F316          |

**FEATURES:**

316 SS CONSTRUCTION FOR CORROSION RESISTANCE.  
 EXCELLENT FLOW REGULATION & LEAK TIGHT.  
 ONE PIECE BODY CONSTRUCTION. NO WELDING USED.  
 PACKING BELOW STEM THREADS ISOLATE THREADS FROM SYSTEM FLUIDS.  
 BACK SEATING ARRANGEMENT.

**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<br>NPTF/BSPF/BSPTF | A  | D-DIA | H<br>OPEN HT. | L  |
| 6000 PSI<br>(41300 kpa) | PTFE<br>-20 to 250° F<br>(-29° to 121°C)    | 0.65 | 5 mm.   | 1/4"                          | 45 | 20    | 80            | 50 |
|                         | 3/8"  |      |         | 27                            |    |       |               |    |
|                         | GRAFOIL<br>-20 to 600° F<br>(-29° to 315°C) | 0.80 | 6.5mm.  | 1/2"                          | 63 | 31    | 110           | 60 |
|                         |   | 1.90 | 9.5mm.  | 3/4"                          | 82 | 38    | 125           | 70 |
|                         |   |      | 9.5mm.  | 1"                            |    | 43.5  | 150           |    |

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