



**FEATURES:**

316 SS CONSTRUCTION FOR CORROSION RESISTANCE.  
 EXCELLENT FLOW REGULATION & LEAK TIGHT.  
 SLOW OPENING PREVENTS SUDDEN PRESSURE SURGE & INSTRUMENT DAMAGE.  
 ONE PIECE BODY CONSTRUCTION. NO WELDING USED.

**APPLICATION:**

REFINERIES, LIQUID PETROLIUM GAS PROCESSING PLANT. PETRO CHEMICALS PLANTS WHERE SYSTEMS DIFFICULT TO SHUT OFF DUE TO SOLIDE CONTENTS – DUST, DIRT, RUST ETC.

**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.  
 OTHER TEST: – VIBRATIONS, TEMPERATURES, HELIUM ETC. ARE AVAILABLE UPON REQUEST.

**LUBRICATION:**

MOLLY ANTI-SEIZE LUBRICANT.

**NOTES: –**

OPTIONAL GRAPHOIL PACKING WITH BALL TIP DESIGN AVAILABLE FOR HIGH TEMPERATURE APPLICATION WHICH ENSURE LONG LIFE IN REPETITIVE SHUT OFF SERVICE. SERIES OF END CONNECTIONS LIKE MALE/FEMALE NPT,BSP PIPE THREADED ENDS WITH STRAIGHT AND ANGLE PATTERNS. GLAND NUT OPTIONAL.

VALVE CAN BE SUPPLIED TO MEET CURRENT REVISION OF NACE MR-01-75. (SOURGAS SERVICE)

DIMENSIONS ARE FOR REFERENCE ONLY. SUBJECT TO CHANGE.

8	HANDLE	1	STAINLESS STEEL
7	GRUB SCREW	1	STEEL PLATED
6	GLAND NUT	1	A479-316
5	WASHER	2	A479-316
4	PACKING	1	TEFLON/GRAPHOIL
3	STEM	1	A479-316
2	PANNEL NUT	1	A479-316
1	BODY	1	A479-316
S.NO.	DESCRIPTION	QTY.	MATERIAL

**MATERIAL OF CONSTRUCTIONS:**

TECHNICAL DATA			
ORIFICE	Cv	Pr. Rat.	Temp.Rat.
5 mm.	0.65	6000 PSI	-20 to 250° F
6.5mm.	2	(41300 kpa)	(-29° to 121°C)

TABLE OF DIMENSIONS:					
SIZE	A	S-SQ.	H-OPEN	L	P
1/4"	55	22	69	50	18
3/8"	55	25	69		
1/2"	73	30	83	60	20
3/4"	80	36	89	70	22
1"	88	45	102		26

TITLE: – "IB" NEEDLE VALVE – FF – ANGLE

DRN.		SCALE	N.T.S.
CHD.	DJS	DATE	16/03/2010
APPD.		DRG.:	PINV-IB-FF-A

**PIONEER INDUSTRIES**

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