



TECHNICAL DATA				
ORIFICE	Cv	Pr. Rat.		Temp. Rat.
		SS	BRASS	
3.5 mm.	0.31	4000 PSI (27600 kpa)	3000 PSI (20700 kpa)	-20 to 250° F (-29° to 121°C)

S.NO.	PART NAME	QTY.	MATERIAL
11	O-RING	1	VITON
10	GRUB SCREW	1	STEEL PLATED
9	HANDLE	1	STAINLESS STEEL
8	SPINDLE	1	17-4PH/TITANIUM
7	PACKING WASHER	1	A 479-316
6	PACKING	1	PTFE/GRAPHOIL
5	WASHER	1	A 479-316
4	GLAND NUT	1	A 479-316
3	PANEL NUT	1	A 479-316
2	GLAND BODY	1	A 479-316
1	BODY	1	A 479-316

### MATERIAL OF CONSTRUCTION

**FEATURES:**  
BRASS/316SS. CONSTRUCTION FOR CORROSION RESISTANCE. EXCELLENT FLOW REGULATION & LEAK TIGHT. SLOW OPENING PREVENT SUDDEN PRESSURE SURGE & INSTRUMENT DAMAGE.

**APPLICATION:**  
REFINERIES, LIQUID PETROLEUM GAS PROCESSING PLANT, PETRO CHEMICALS PLANTS, 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: - LIKE THE VIBRATIONS,TEMPERATURES,HELIUM ETC.

**LUBRICATION:** ARE AVAILABLE UPON REQUESTS.  
MOLLY ANT- SEIZE LUBRICANT.  
**NOTE:** DIMENSIONS ARE FOR REFERENCE ONLY, SUBJECT TO CHANGE.

REV.	REVISIONS	DATE	BY	APPD.

  

<b>TOLERANCES</b> 1 - PLACE DIMENSION ±0.05 2 - PLACE DIMENSION ±0.01 3 - PLACE DIMENSION ±0.005 \$ - STD CASINGS ±0.03		<b>CLIENT-</b> TITLE: NEEDLE VALVE-MINI SERIES PTFE PKG. (PxF)	
DO NOT SCALE THE DRAWINGS.	DRN.	SCALE	N.T.S.
UNLESS OTHERWISE SPECIFIED	CHD.	DATE	26.05.2004
MACHINE - 63 MICRO IN.	MT	DATE	
CAST - 125 MICRO IN.	JP	DATE	

REMOVE ALL BURRS & SHARP EDGES. PARTS TO BE FREE OF OIL OR OTHER CONTAMINATION.  
ALL DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED.



**PANAM ENGINEERS**  
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