



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

MATERIAL OF CONSTRUCTIONS:

FEATURES:
 316 SS CONSTRUCTION FOR CORROSION RESISTANCE.
 EXCELLENT FLOW REGULATION & LEAK TIGHT.
 SLOW OPENING PREVENTS SUDDEN PRESSURE SURGE & INSTRUMENT DAMAGE. INTERCHANGEABLE BONNET FOR 1/4", 1/2" MALE TO FEMALE PIPE ENDS. ONE PICE BODY CONSTRUCTION. NO WELDING USED.

APPLICATION:
 REFINERIES, LIQUID PETROLIUM GAS PROCESSING PLANT. PETRO DIFFICULT TO 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. ARE AVAILABLE UPON REQUESTS.

LUBRICATION:
 MOLLY ANTI- SEIZE LUBRICANT.

- NOTES:-**
- OPTIONAL PACKING GRAPHOIL AVAILABLE FOR HIGH TEMPERATURE WITH BALL TIP DESIGN WHICH FORMS A BEARING JOINT WITH THE STEM, ELEMENT ROTATION BETWEEN BALL & SEAT AT CLOSER. THIS PREVENTS SCORING AND GALLING UP THE VALVE SEAT & INSURE LONG LIFE IN REPETITIVE SHUT OFF SERVICE. CLEAN OUT HOLE PREVENTS CLOGGING. SERIER OF END CONNECTION LIKE A MALE, FEMALE PIPE ENDS, POWER LOCK TUBE CONNECTIONS WITH STRAIGHT & ANGLE PATTERNS. GLAND NUT OPTIONAL.
 - DIMENSIONS ARE FOR REFERENCE ONLY. SUBJECT TO CHANGE.

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

TABLE OF DIMENSIONS:			
SIZE	A	H-OPEN	H-CLOSED
1/4"	50	-	-
3/8"	50	84	75
1/2"	68	108	96
3/4"	70	115	105
1"	80	120	110

TITLE:- NEEDLE VALVES TUBE OD			
DRN.	CDG	SCALE	N.T.S.
CHD.	ET	DATE	30.07.2001
APPD.	JP	DRG.NO :	PNV-1B-0DT

PANAM ENGINEERS
 MUMBAI