

PANAM

NEEDLE VALVE

H. B. Series



Catlogue No. NV-HB-1
June 2003.

H. B. Series - Needle Valve

PANAM "HB" Series Needle Valves are specially designed and ruggedly manufactured for use in corrosive & hazardous environment. These valves are used in Process control, instrumentation and flow control application.

Valves are precision machined, designer durability and maximum efficiency to provide high quality and low cost alternatives in fluid and gaseous control systems of different applications, to meet the exacting standards of our growing and demanding customers.

PANAM "HB" Series valves are available in High Grade Stainless Steel, Carbon steel, Brass and Monel materials in variety of end connections includes Male / Female threaded NPT, BSP, BSPT, ISO, DIN and JIS tapered pipe ends.

Valves can be supplied to meet current revision of NACE MR01-75 (Sour Gas Service)

All valves are 100% factory tested and complete traceability is available upon request.

FEATURES - BENEFITS

Non Rotating Vee / Ball tip design - which forms a bearing joint with the stem eliminates rotation between plug & seat at closure. This prevents scoring and galling up the valve seat and ensure long life in repetitive shut off service

Safety Bonnet Lock - Prevents accidental disassembly

Stem thread Rolled & Hard Plated - Provides additional strength & maximum service life

Mirror Finish Stem, burnished to a 16RMS - Extends packing life and smooth stem operation

Adjustable Packing Below Stem threads - Prevents stem lubrication washout and isolate threads from process contamination.

Safety Back Seating - Provides secondary stem seal in full open position, prevents stem blow out

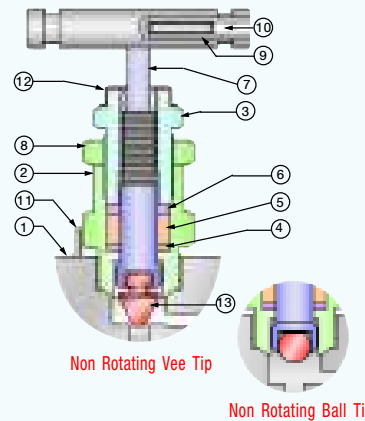
Stainless Steel Handle - For proper actuation

Body to Bonnet seal - Metal to Metal constant compression, Isolate bonnet threads from system fluids and eliminates possible tensile

Dust Cap - Prevents contaminants and lubricant washout of bonnet assembly

Material of Construction

Sr No.	Part	Qty.	Material
1	Body	1	A479-316 / A-105
2	Gland Body	1	A479-316 / A-105
3	Gland Retainer	1	A479-316 / A-105
4	Washer	1	A479-316 / A-105
5	Packing	1	PTFE / Graphoil
6	Packing Washer	1	A276-316 / A-105
7	Spindle	1	A276-316
8	Lock Nut	1	A479-316 / A-105
9	Grub Screw	1	Steel
10	Handle	1	A276-304 / A-105
11	Lock Pin	1	A479-316 / A-105
12	Dust Cap	1	Plastic LD.
13	Vee Tip / Ball Tip	1	Titanium / 17-4 PH



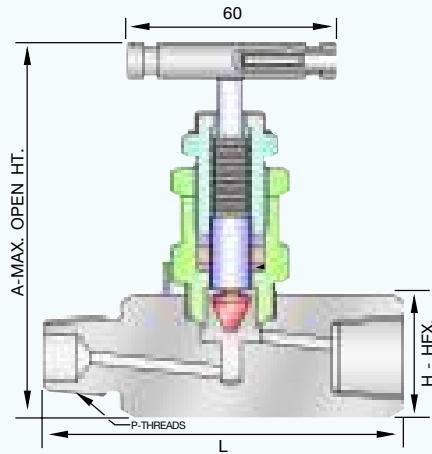
Pressure / Temperature Ratings :-

Valve Size	Orifice	Cv	Max.Working Pressure	Temp	Pressure @ Max. Pressure
1/4"	3.5mm	0.31	6000 psi (41300 kpa)	PTFE	
3/8"				-20° to 250° F	4000 psi @
	-29° to 121° C	230° C			
1/2"	4.8mm	0.52		GRAPHOIL	
3/4"	6.4mm	1.40	-29° to 600° F	3600 psi @	
			-29° to 315° C	230° C	

Standard Testings :-

Every **PANAM** "HB" series Needle Valve is 100% tested with nitrogen gas at 1200psig (80 Bar) for leakage at seal & seat. Hydrostatic test performed with pure water at 1 and 1/2 times of the working pressure. Other optional tests like helium , temperature, seismic are available upon request.

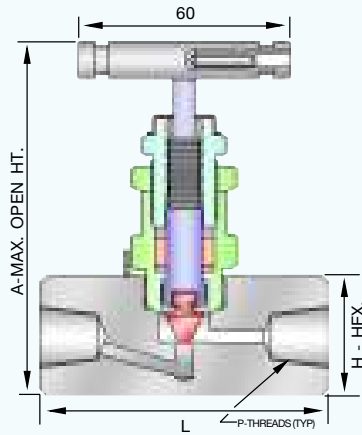
Needle Valve Hard Seat MF



Dimensions:-

Part No.	P-NPTF	L	H-HEX	A-OP	WT.*
PNV-H-S-4-MF	1/4"	60	25	92	300 gms
PNV-H-S-6-MF	3/8"	60	25	92	300 gms
PNV-H-S-8-MF	1/2"	80	32	98	600 gms
PNV-H-S-12-MF	3/4"	80	36	114	800 gms

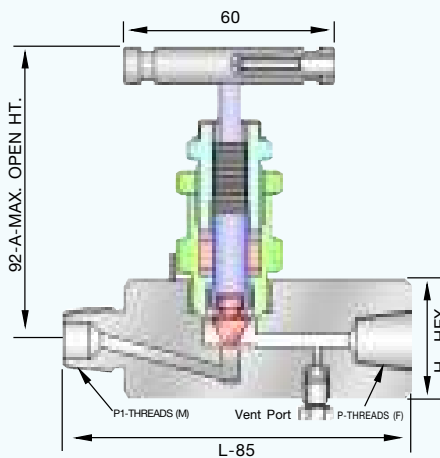
Needle Valve Hard Seat FF



Dimensions:-

Part No.	P-NPTF	L	H-HEX	A-OP	WT.*
PNV-H-S-4-FF	1/4"	53	25	92	300 gms
PNV-H-S-6-FF	3/8"	53	25	92	300 gms
PNV-H-S-8-FF	1/2"	75	32	98	600 gms
PNV-H-S-12-FF	3/4"	75	36	114	800 gms

Needle Valve Block & Bleed



Dimensions:-

Part No.	P-NPTF	P1-NPTM	H-HEX	WT.*
PBB-H-S-88-MF	1/2"	1/2"	32	650 gms
PBB-H-S-128-MF	1/2"	3/4"	32	750 gms

■ Approximate

* NEEDLE VALVE H. B. SERIES ARE ALSO AVAILABLE IN SOFT SEAT

WARNING: Inadequate care improper utilisation of the product can cause intense and excessive damage to life and property. PANAM's products are at your liable use and at the behest of the user's responsibility to check and analyse the product in which it is going to be further inserted in to, so that the same functions properly and the relevant product is also very important for all safe guard and also precautions to be taken before the user puts the product in to service.

* Specification are subject to change with out prior Notice



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