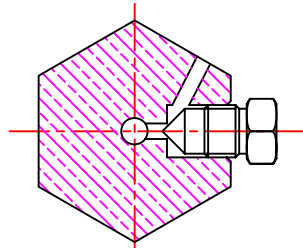
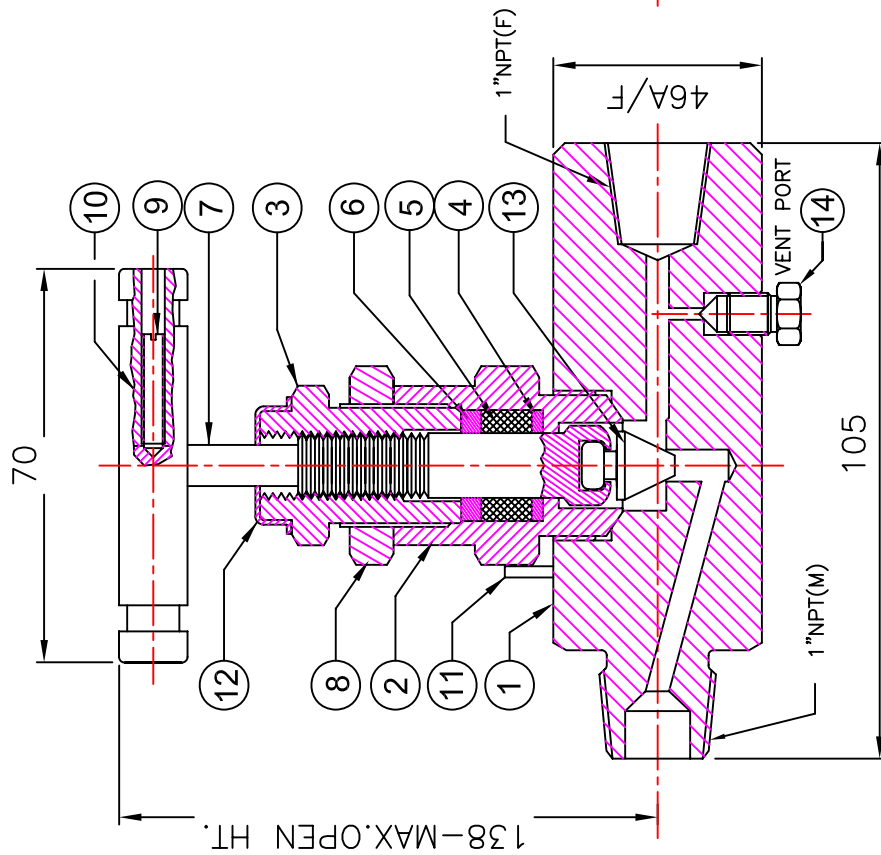


SERVICE TEMPERATURE Degrees F.	WORKING PRESSURE PSIG
-20 to 100	6000
200	5160
300	4660
400	4280
500	3980
600	3760
650	3680
700	3620
750	3560
800	3520
850	3480
900	3460
950	3220
1000	3030
1050	3000
1100	2545
1150	1970
1200	1545



Orifice	Seat	Cv
9.5MM	METAL	2.40

TABLE SS 2004

PANAM VALVE COMPLY WITH ASME STANDARD B16.34--2004 FOR VALVES WITH THREADED AND WELDING ENDS. THESE TABLES MUST BE USED IN ACCORDIANCE WITH ASME STANDARDS. THE USER IS ADVISED THAT A VALVE MUST BE USED UNDER JURISDICTION OF THE ASME BOILER AND PRESSURE VESSEL CODE, ASME CODE FOR PRESSURE PIPING AND CANADIAN GOVERNMENTAL REGULATIONS AND IS SUBJECT TO ANY LIMITATIONS OF THAT CODE OR REGULATION. AT TEMPERATURES OVER 1000 DEGRESS F. MATERIAL SHALL HAVE A MINIMUM CARBON CONTENT OF .04% OR HIGHER TO THE MAXIMUM ALLOWED FOR ASTM GRADE A479-316.

S.NO.	DESCRIPTION	QTY.	MATERIAL
14	VENT PLUG	1	A479-316
13	NON ROTATING VEE TIP	1	A564-630
12	DUST CAP	1	PLASTIC LD.
11	LOCK PIN	1	A479-316
10	HANDLE	1	A479-316
9	GRUB SCREW	1	STEEL
8	LOCK NUT	1	A479-316
7	SPINDLE	1	A479-316
6	PACKING WASHER	1	A479-316
5	PACKING	1	PTFE/GRAFOIL
4	WASHER	1	A479-316
3	GLAND RETAINER	1	A479-316
2	BONNET	1	A479-316
1	BODY	1	A479-316

MATERIAL OF CONSTRUCTIONS

PANAM HB SERIES NEEDLE VALVE ARE ISOLATION VALVES USED IN PROCESS CONTROL, INSTRUMENTATION AND FLOW CONTROL APPLICATIONS.

FEATURES :

316 S.S. BODY CONSTRUCTION FOR SUPERIOR CORROSION RESISTANCE. NON ROTATING VEE TIP PREVENTS GALLING & PROMOTES REPETITIVE SHUT-OFF. PACKING BELOW THREADS/BACK SEAT ARRANGEMENT. MOLLY ANTI-SEIZE LUBRICANT.

TESTING:

PNEUMATIC TEST:-- EACH VALVE IS TESTED WITH NITROGEN AT 100 PSI IN ACCORDANCE WITH MSS-SP-61 FOR SEAT & PACKING LEAKAGE. HYDRO TEST:-- PERFORMED WITH PURE WATER IN ACCORDANCE WITH MSS-SP-61. BODY TESTED AT 1.5 TIMES & SEAT LEAKAGE TESTED AT 1.1 TIMES OF THE WORKING PRESSURE

DESIGN STANDARD :

PRESSURE & TEMPERATURE RATING ARE SELECTED FROM ANSI B16.34 STANDARD CLASS VALVES BASED ON ANSI B16-CLASS 2500 OPTIONAL SOUR GAS SERVICE CONFIRMS TO NACE MR-01-75

REV.	DESCRIPTION	BY	DATE

TITLE:-- HB SERIES NEEDLE VALVE BLOCK & BLEED
1"NPTM X 1"NPTF

DRN.	VPT	SCALE	NTS.
CHD.	VA	DATE	04-02-05
APPD.	JP	DRG.NO.	PBB-H-S-1616-MF
			RO



PANAM ENGINEERS
AN ISO 9001 : 2000 COMPANY
MUMBAI -- INDIA