

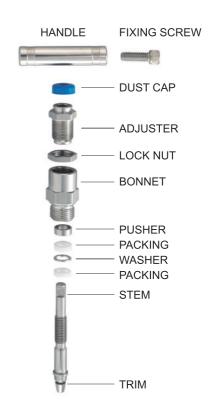
Hexagonal Bar Stock Needle Valve HBNV Series



Features

- ■Maximum working pressure: 6000 psi (414bar) at 100°F (38°C) 10000 psi (690bar) at 100°F (38°C)
- ■Working temperature: -65°F (-54°C) to 464°F (240°C) -65°F (-54°C) to 842°F (450°C)
- ■Teflon® packings can be adjusted to extend the valve
- Non rotating stem design to reduce the galling and provide excellent seal on seat.
- Stem threads are rolled and lubricated to prevent galling and reduce operating torque.
- Sealing area below the threads protects from the contaminant by process and prevents lubricant washout.
- Safety back seating seal in fully open position to perform a secondary stem seal.
- ■Body to bonnet seal creates metal to metal constant and reliable compression.
- ■Bonnet lock pin prevents accidental removal while in service.
- Optional sour gas service conforms to NACE MR0175.
- ■Hydro test performed with pure water at 1.5 times of working pressure
- ■100% factory test
- Material traceability

Material of Construction

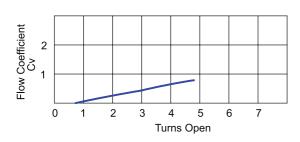


	Valve Body Material				
Component	316L S.S.	Carbon Steel			
Body	316L S.S./A479	Carbon Steel /A108			
Bonnet	316L S.S./A479	Carbon Steel /A108			
Stem	316L S.S./A276	304 S.S./A276			
Adjuster	316L S.S./A276	Carbon Steel /A108			
Lock Nut	316L S.S./A276	Carbon Steel /A108			
Handle	303 S.S./A276	Carbon Steel /A108			
Fixing Screw	302 S.S.	Zinc plated steel			
Packing	Teflon® 1	Teflon® 1			
Washer	316 S.S./A276	316 S.S./A276			
Pusher	316 S.S./A276	316 S.S./A276			
Dust Cap	NBR	NBR			
Lock Pin	303 S.S./A276	303 S.S./A276			
Bleed Screw ²	316 S.S./A276	316 S.S./A276			

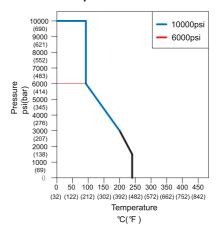
- 1. Packing is optional with graphite for high temperature to 450°C.
- 2. Optional with bleed screw



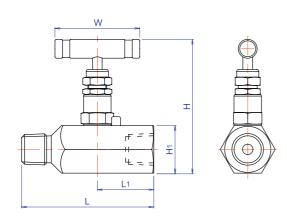
Flow Characteristics

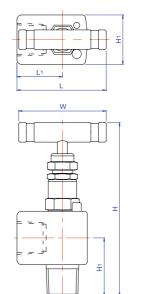


Pressure Vs. Temperature



Dimensions





Ordering No.	End Connection		Orifice	Dimensions (mm)					
Ordering No.	Inlet	Outlet	(bore)	L	L1	H	H1	W	
HBNV□8MF	1/2"NPT male	1/2"NPT female	6	89	38	90	32	57	
HBNV□8FF	1/2"NPT female	1/2"NPT female	6	76	38	90	32	57	
HBNV□3412MF	3/4"NPT male	1/2"NPT female	6	89	38	90	32	57	
HBNV□12MF	3/4"NPT male	3/4"NPT female	6	89	38	93	35	57	
HBNV□12FF	3/4"NPT female	3/4"NPT female	6	76	38	93	35	57	
HBNV□16MF	1"NPT male	1"NPT female	6	94	42.5	99	41	57	
HBNV□16FF	1"NPT female	1"NPT female	6	85	42.5	99	41	57	
HBNV□8MF90	1/2"NPT male	1/2"NPT female	6	-	-	121.3	37.5	57	

All dimensions shown are for reference and subject to change without prior notice.

Sizes listed are standard. Other sizes and end types are available upon request. Refer to ordering information.



Standard Material

Valve	Body	Bonnet	Stem	Packing	Trim
316L SS	316-A479	316-A479	316-A276	Teflon®	316-A276
Carbon Steel	A108	A108	304-A276	Teflon [®]	304-A276

Ordering Information

HBNV		S		8	N	ЛF	10 B		
Series	Body Material		Size		End Connection		Optional		
HBNV	S	316L S.S.	4	1/4"	M	Male	90	Angle pattern	
	С	Carbon Steel	6	3/8"	F	Female	10	10,000 psi	
			8	1/2"			В	Bleeding screw	
			12	3/4"			G	Graphite	
			16	1"			BSPT	BSPT thread	

Note:

- 1. Viton®, Teflon® and Delrin® are all registered trademarks of DuPont. Refer to chemical resistance guide and choose suitable elastomer for your application.
- 2. Carbon steel valves are yellow zinc plated to resist corrosion.