

Double Block and Bleed Needle Valve

» Pressures to 22,500 psi (1,550 bar)



YDB VALVES LLP

- Competitive Price
- Better Product Flexibility
- Consistency & Optimum Service

Innovations designed to improve operations and profitability



Our Company

YDB VALVES LLP, a pioneer manufacturing company having good experience in the designing and manufacturing of a new concept instrumentation Valves: Manifolds, Monoflanges, SBB & DBB Valves both in needle and ball types, Floating and Trunnion design Ball Valves, strictly produced in according to the most stringent quality standards of safety and efficiency.

We have a fully well-equipped modern in-house manufacturing facility using CNC lathes, VMC, etc. with highly motivated team and up to date technology assisting us to achieve reliable products at competitive price with better product flexibility, consistency and optimum service.

Our experience in the understanding of applications requirements, combined with our high flexibility, allows us to develop customized solutions designed for customers' specific needs.

Our products are machined from the materials CF8M, SS316, SS316L, Duplex, Super Duplex, Monel, Inconel, etc.

Moreover, our valves production can be completed with complementary accessories, something that makes YDB VALVES a favourite and reliable partner for those companies that supply 'packages' of various matching goods. Our products are widely use in the Chemical, Petrochemical, Oil & Gas, Off-Shore, On-Shore, Power Generation, Naval industries, etc., used as components of plants and machineries with a high technological value.

Double Block and Bleed Needle Valve

Pressures to 22,500 psi (1550 bar)

YDB valves series DBNV double block and bleed valve is a three system manifold valve providing an economical and convenient method of blocking and bleeding in applications such as pressure monitoring and test, chemical injection and drain line isolation. The valve utilizes our standard valve packing and stem design to make it compact and easy to use. Manifold style valves reduce the number of fittings and space required for installation.



Block and Bleed Features:

- HDBBNV Series valve design provides large valve performance in a small package.
- Tubing sizes: 1/4" to 1".
- Rising stem/barstock body design.
- Metal-to-metal seating achieves bubble-tight shut-off, longer stem/seat life in abrasive flow, greater durability for repeated on/off cycles and excellent corrosion resistance.
- PTFE encapsulated packing provides dependable stem and body sealing.
- Stem and packing gland design have been selected to achieve extended thread cycle life and reduced handle torque.
- Temperatures from -100°F (-73°C) to 600°F (316°C)

BENEFITS

YDB valves Double Block and bleed valves are used in many applications such as the chemical/petrochemical, and oil and gas industries. This valve utilizes the coned and threaded design for bubble-tight seal performance in gas and liquid service. This three valve system provides a convenient method of blocking, bleeding and calibrating pressure transducers and gauges. These valves are complemented by a complete line of fittings, tubing and accessories.

Double Block and Bleed Needle Valve

Pressures to 22,500 psi (1550 bar)

Tube Outer Diameter size Inches	Connection Type	Orifice size Inches (mm)	Related Cv	Pressure Rating psi (bar) @ Room Temperature
1/4	4T	0.093 (2.36)	0.10	22,500 (1550)
3/8	6T	0.093 (2.36)	0.27	22,500 (1550)
9/16	9T	0.093 (2.36)	0.27	22,500 (1550)

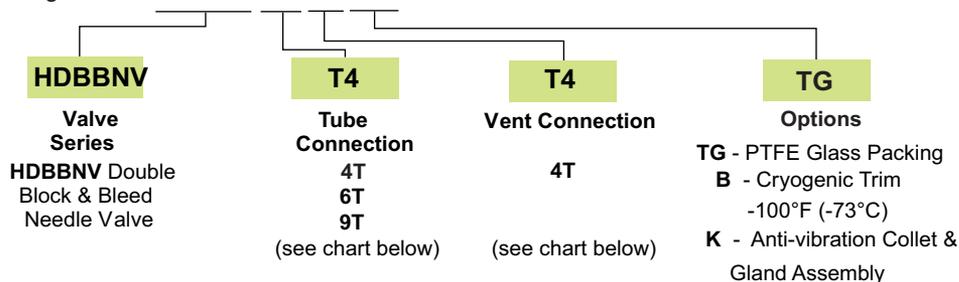
HDBBNV Valve Series	4T Connection	4N Vent Connection
HDBBNV	4T - 1/4"	4N - 1/4" NPT
	6T - 3/8"	6N - 3/8" NPT
	9T - 9/16"	8N - 1/2" NPT
	9T - 9/16"	4T - 1/4"



Ordering Procedure

For complete information on available end connections, see end connections options below. HDBBNV valves are furnished complete with tube connections.

Typical catalog number: **HDBBNV 4T 4T TG**



Connection Options

Catalogue Number	Tube Connection Number	Pressure Rating psi (bar) @ Room Temperature	Vent Connection Number
HDBBNV-225-4T-4T	4T	22,500 (1550)	4T
HDBBNV-225-6T-4T	6T	22,500 (1550)	4T
HDBBNV-225-9T-4T	9T	22,500 (1550)	4T

Valve Options

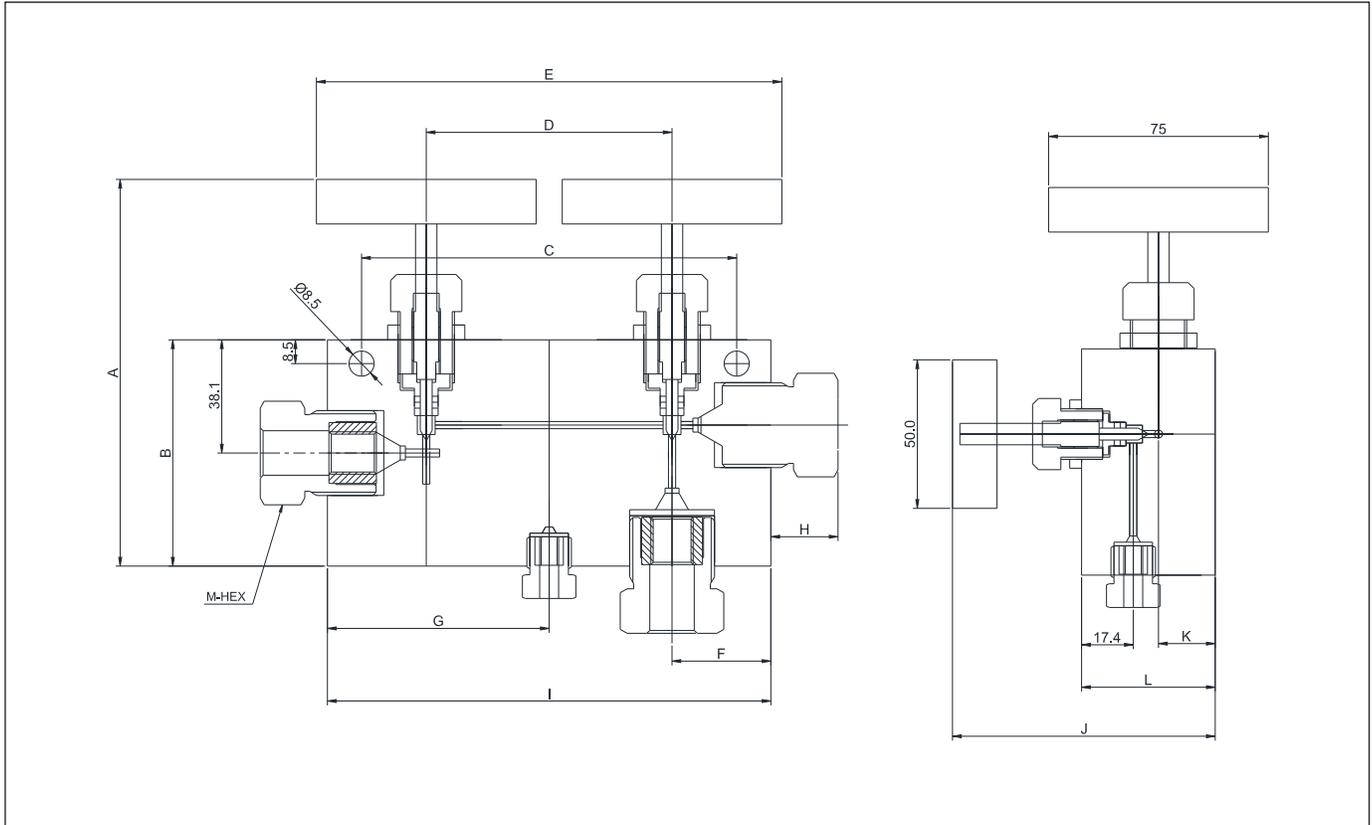
Extreme Temperatures

Standard YDB valves with PTFE packing may be operated to 450°F (232°C). High temperature packing is available for service from 0°F (-17.8°C) to 800°F (427°C) by adding the following suffixes to catalog order number.

TG standard valve with PTFE glass packing to 600°F (316°C).

B standard valve with cryogenic trim material and PTFE packing to - 100°F (-73°C).

Double Block and Bleed Needle Valves : Series - HDBBNV



Standard Configurations Dimensions

O.D. tube in.	Orifice in. (mm)														PART NO.
		A	B	C	D	E	F	G	H	I	J	K	L	M	
1/4	0.11 (2.7)	4.882 (124)	2.13 (54.1)	4.63 (117.6)	3.252 (82.6)	6.205 (157.6)	1.00 (25.4)	2.626 (66.7)	0.378 (9.6)	5.252 (133.4)	3.012 (76.5)	0.50 (12.7)	1.50 (38.1)	0.50 (12.7)	HDBBNV-225-4T-4T
1/4	0.11 (2.7)	4.882 (124)	2.13 (54.1)	4.63 (117.6)	3.252 (82.6)	6.205 (157.6)	1.00 (25.4)	2.626 (66.7)	0.378 (9.6)	5.252 (133.4)	3.012 (76.5)	0.50 (12.7)	1.50 (38.1)	0.50 (12.7)	HDBBNV-225-4T-4N
3/8	0.11 (2.7)	4.776 (121.3)	2.13 (54.1)	4.63 (117.6)	3.252 (82.6)	6.205 (157.6)	1.00 (25.4)	2.626 (66.7)	0.48 (12.2)	5.252 (133.4)	3.012 (76.5)	0.50 (12.7)	1.50 (38.1)	0.625 (15.88)	HDBBNV-225-6T-6T
3/8	0.11 (2.7)	4.776 (121.3)	2.13 (54.1)	4.63 (117.6)	3.252 (82.6)	6.205 (157.6)	1.00 (25.4)	2.626 (66.7)	0.48 (12.2)	5.252 (133.4)	3.012 (76.5)	0.50 (12.7)	1.50 (38.1)	0.625 (15.88)	HDBBNV-225-6T-6N
9/16	0.11 (2.7)	5.646 (143.4)	3.00 (76.2)	4.638 (117.8)	3.26 (82.8)	6.213 (157.8)	1.311 (33.3)	2.941 (74.7)	6.3 (16)	5.882 (149.4)	3.283 (83.4)	0.752 (19.1)	1.772 (45)	0.937 (23.8)	HDBBNV-225-9T-9T
9/16	0.11 (2.7)	5.646 (143.4)	3.00 (76.2)	4.638 (117.8)	3.26 (82.8)	6.213 (157.8)	1.311 (33.3)	2.941 (74.7)	6.3 (16)	5.882 (149.4)	3.283 (83.4)	0.752 (19.1)	1.772 (45)	0.937 (23.8)	HDBBNV-225-9T-8N
9/16	0.11 (2.7)	5.646 (143.4)	3.00 (76.2)	4.638 (117.8)	3.26 (82.8)	6.213 (157.8)	1.311 (33.3)	2.941 (74.7)	0.941 (23.9)	5.882 (149.4)	3.283 (83.4)	0.752 (19.1)	1.772 (45)	1.187 (30.16)	HDBBNV-225-9T-4T

Dimensions are for reference only and subject to change



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