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**HN-LOK**  
Fittings & Valves

Catalog No. HV1-2022. January

# HV1 Series Ball Valves

for use with 1/8" thru 2" Tube and Piping System



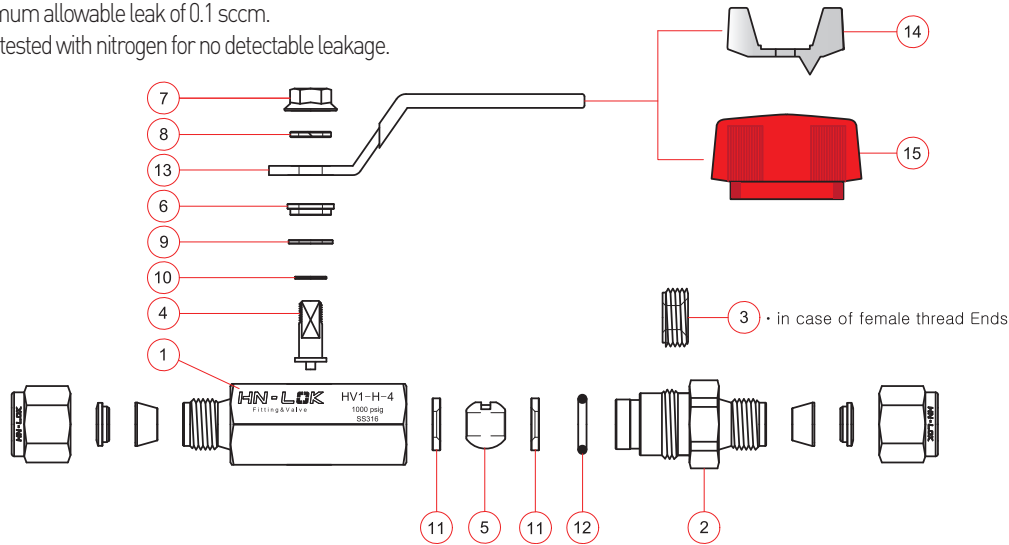
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## Design Features

- Working pressure up to 1000psig (69bar) at 100°F(38°C)
- Compact design with one piece hexagon body.
- Low torque for easy operation.
- Size range of from 1/8" to 1" tubing and 2" piping.
- Butterfly & nylon handle available for better installation in a restricted space.

## Factory Test

- Every valve is factory tested with nitrogen 600psig (41bar) for leakage at the seat to a maximum allowable leak of 0.1 sccm.
- The packing is tested with nitrogen for no detectable leakage.



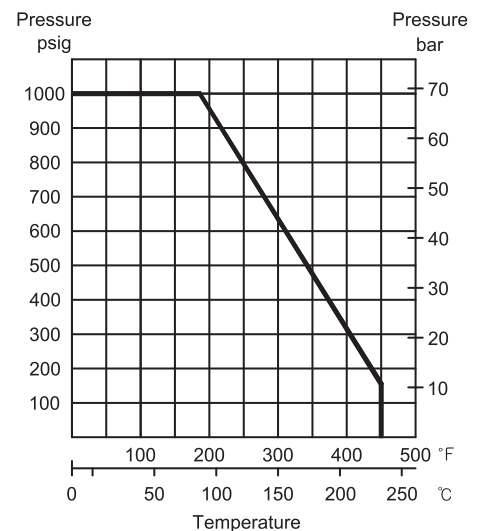
## Application

HV1 series offers a safe and reliable performance for a wide range of applications. Chemical plants, refineries, steel mills, fuel lines, heavy Vehicles.

## Material of Construction

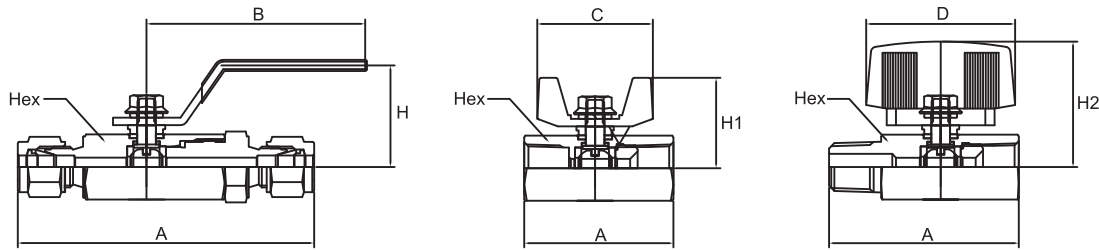
Item	Component	Material / ASTM Specification	
		Stainless Steel	Brass
1	Body	ASTM A276 / A479 TYPE316 ASTM A351 CF8M	ASTM B16 or H3250
2	End Connector	ASTM A276 / A479 TYPE316	ASTM B16 or H3250
3	Insert		
4	Stem	ASTM A276 / A479 TYPE316	ASTM A276 / A479 TYPE316
5	Ball		
6	Out Washer		
7	Lock Nut	Stainless Steel	Stainless Steel
8	Spring Washer		
9	Out Packing	Reinforced PTFE / D1710	Reinforced PTFE / D1710
10	Inner Packing		
11	Ball Seat		
12	O - Ring	FKM (e.g Viton) Standard (NBR) on Request.	
13	Handle	Stainless Steel lever Handle PVC Coating	
14		ZINC / ASTM B240 Butterfly Handle, Chrome -plated	
15		Dielectric Nylon Handle	

## Pressure-Temperature Rating



### SAFETY in VALVE SELECTION

The selection of a valve for any application or system design must be considered to ensure safe performance. Valve function, valve rating, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. HN-Tech accepts no liability for any improper selection, installation, operation or maintenance.



## Ordering Information and Table of Dimensions

Basic Part NO.	Orifice mm (in)	Cv	End Connection Inlet / Outlet	Dimensions mm (in)							
				A	H	H1	H2	B	C	D	Hex
HV1-H-2	5 (0.19)	0.2	1/8" HN-LOK	76 (2.99)	27.3 (1.07)	24.3 (0.95)	33.8 (1.33)	58.6 (2.30)	31 (1.22)	40 (1.57)	17.46 (11/16)
HV1-H-4		1.25	1/4" HN-LOK	79.4 (3.12)							
HV1-H-6M		1.25	6mm HN-LOK	79.4 (3.12)							
HV1-F-4N		1.35	1/4" Female NPT	40 (1.57)							
HV1-F-2N		1.25	1/8" Female NPT	49 (1.92)							
HV1-MF-4N		1.35	1/4" M / F NPT	52.4 (2.06)							
HV1-H-6	7.5 (0.30)	2.5	3/8" HN-LOK	89.6 (3.52)	34.6 (1.36)	30.8 (1.21)	39.3 (1.54)	78.2 (3.07)	42 (1.65)	50 (1.96)	22.22 (7/8)
HV1-H-8M		2.5	8mm HN-LOK	89.3 (3.51)							
HV1-H-10M		2.6	10mm HN-LOK	91 (3.58)							
HV1-F-6N		2.6	3/8" Female NPT	45 (1.77)							
HV1-MF-6N		2.6	3/8" M / F NPT	53.5 (2.10)							
HV1-H-8	9 (0.35)	9.25	1/2" HN-LOK	101 (3.97)	37 (1.45)	35.7 (1.40)	41.7 (1.64)	78.2 (3.07)	46 (1.81)	50 (1.96)	26.98 (1-1/16)
HV1-H-12M		9.25	12mm HN-LOK	101 (3.97)							
HV1-F-8N		9.25	1/2" Female NPT	54.5 (2.15)							
HV1-MF-8N		9.25	1/2" M / F NPT	66.6 (2.62)							
HV1-H-10	12.5 (0.49)	10.6	5/8" HN-LOK	107.5 (4.23)	44 (1.73)	38.2 (1.50)	51.2 (2.01)	99 (3.89)	49 (1.92)	60 (2.36)	31.75 (1-1/4)
HV1-H-12		12.65	3/4" HN-LOK	107.5 (4.23)							
HV1-H-16M		10.6	16mm HN-LOK	107.5 (4.23)							
HV1-F-12N		12.65	3/4" Female NPT	61 (2.40)							
HV1-MF-12N	12.65	3/4" M / F NPT	75.8 (2.98)								
HV1-H-14	16 (0.63)	17.35	7/8" HN-LOK	124.1 (4.88)	47.2 (1.85)	45.5 (1.79)	54.4 (2.14)	99 (3.89)	59 (2.32)	60 (2.36)	38.1 (1-1/2)
HV1-H-16		17.35	1" HN-LOK	132.8 (5.22)							
HV1-H-25M		17.35	25mm HN-LOK	132.8 (5.22)							
HV1-F-16N		17.35	1" Female NPT	75 (2.95)							
HV1-F-20N	21	-	1-1/4" Female NPT	89 (3.50)	64.7	-	-	151	-	-	50
HV1-F-24N	24	-	1-1/2" Female NPT	95 (3.74)	67.8	-	-	151	-	-	55
HV1-F-32N	32	-	2" Female NPT	110 (4.33)	73.2	-	-	151	-	-	70

## Ordering Information

Select valve ordering number, and applicable options.

HV1 — H — 4 — LB — S

Valve Type	End Connection Designator	Size Designator	Handle Designator	Body Material Designator
HN-Lok Valve Series	<ul style="list-style-type: none"> <li>• H: HN-Lok Tube Fitting</li> <li>• F: Female Pipe Thread</li> <li>• M: Male Pipe Thread</li> </ul>		<ul style="list-style-type: none"> <li>• LB: Standard lever Handle Color-Red</li> <li>• BF: Optional butterfly Handle Chrome-plated</li> <li>• NY: Optional Nylon Handle</li> </ul>	<ul style="list-style-type: none"> <li>• S: 316 Stainless Steel</li> <li>• BS: Brass</li> <li>• MO: Monel</li> </ul>

Optional Color  
• LB: Blue, Yellow • NY: Red, Blue, Black  
Examples: HV1-H-4-LB-S-Blue

Tube O.D.								
O.D (in)	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1
Designator	2	4	6	8	10	12	14	16
O.D (mm)	6	8	10	12	15	16	22	25
Designator	6M	8M	10M	12M	15M	16M	22M	25M

NPT (ISO / BSP)								
Thread (in)	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
Designator	4N(R)	6N(R)	8N(R)	12N(R)	16N(R)	20N(R)	24N(R)	32N(R)



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