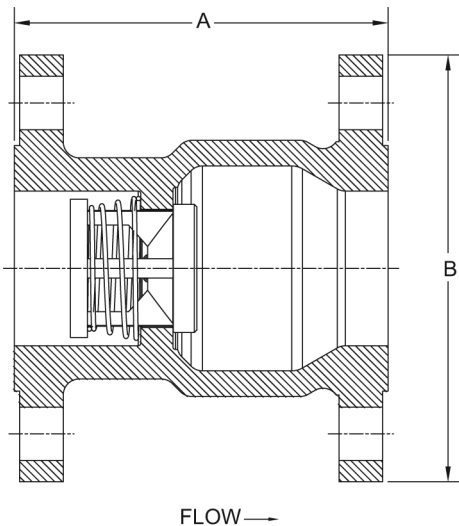


The Check-All® Flanged & Drilled (HV) check valve is a one piece cast body valve with ASME/ANSI B16.5 Class 150 flanged ends. The HV series valve is used when higher flow rates and lower pressure drops are required. The valve is available in sizes 1 inch through 10 inches and standard materials of CF8M (cast 316 stainless) and WCB/WCC (cast carbon steel). The HV series valve is designed for use with mating ANSI Class 150 flanges. Other materials are available upon request. The HV valve can also be used as a low pressure relief valve or vacuum breaker by using the desired spring settings.

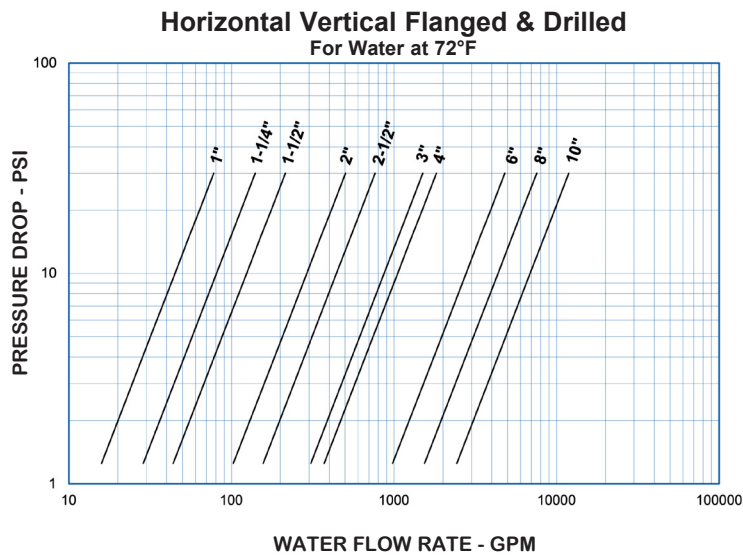
NOTE: Many valves in this series can be supplied with B16.34 certification. Consult the factory for more information.



Nom. Pipe Size	Size Code	A	B	Orifice Diameter
1	H	3.75	4-1/4	0.890
1-1/4	I	3.80	4-5/8	1.135
1-1/2	J	4.38	5	1.385
2	K	5.13	6	2.025
2-1/2	L	7.28	7	2.560
3	M	8.38	7-1/2	3.280
4	N	9.69	9	3.875
6	P	13.75	11	6.380
8	Q	15.10	13-1/2	7.670
10	R	19.25	16	9.650

Cast Body Material ^❶	Availability	Non-Shock Pressure-Temperature Rating
CF8M Stainless Steel (SS)	Standard	ASME/ANSI B16.5 Class 150
WCB/WCC Carbon Steel (CS)		

^❶ See page 58 for material grade information.



Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs.

STYLE HV C _v VALUES & VALVE WEIGHTS		
C _v	SIZE	SS & CS
14.2	1	4.3lb.
25.6	1-1/4	5.3lb.
39.2	1-1/2	7.8lb.
91.9	2	11.5lb.
140	2-1/2	20.7lb.
275	3	25.9lb.
333	4	44lb.
878	6	88lb.
1375	8	142lb.
2175	10	263lb.

See page 53 for Flow Formulae.
Valve weights are approximate.

HOW TO ORDER CHECK-ALL STYLE HV

CAST BODY MATERIAL

WCB/WCC CARBON STEEL = CS
CF8M STAINLESS STEEL = SS

See p. 4 for temperature ratings

SPRING CRACKING PRESSURES (PSI)

Must use decimal as a character unless selecting NO SPRING. Specify Exact Setting

SPRING RANGES	EXAMPLE
.000 TO .999	= .500
1.00 TO 9.99	= 1.50
10.0 TO 85.0	= 15.0
NO SPRING	= NOSPRG

STANDARD CRACKING PRESSURES ①

.125	.500	1.50	3.50
(Sizes H-L Only)	(Sizes H-L Only)	(Sizes H-L Only)	(Sizes H-L Only)

SPECIAL OPTIONS

T = FEP ENCAPSULATED SPRING

See p. 4 for temperature rating

Contact the factory for more options

HV

VALVE STYLE

SIZE

1 = H
1-1/4 = I
1-1/2 = J
2 = K
2-1/2 = L
3 = M
4 = N
6 = P
8 = Q
10 = R

SEAT MATERIAL ②

AFLAS® = AS
BUNA-N = BN
EPDM ③ = EP
KALREZ® (FFKM) = KZ
FLUOREZ® (FFKM) = FZ
“METAL-TO-METAL” = MT
NEOPRENE = NE
PTFE = TF
FKM = VT

See p. 3 for temperature ratings

SPRING MATERIAL

316 SS = SS
ALLOY C-276 = HC
ALLOY B = HB
INCONEL® X750 OR ALLOY X750 = IX
MONEL® 400 = MO
17-7PH SS = PH
TITANIUM = TI

See p. 4 for temperature ratings

Listed above are the most common material selections. Please contact the factory for additional options.

- ① .500 PSI is the only standard cracking pressure for spring materials other than Stainless Steel. 0.125 PSI springs are not recommended for installations with flow vertical down.
- ② “Metal-to-Metal” and PTFE seats are not resilient. See page 54 for allowable leakage rates.
- ③ EP seats not recommended for use with Carbon Steel valves.