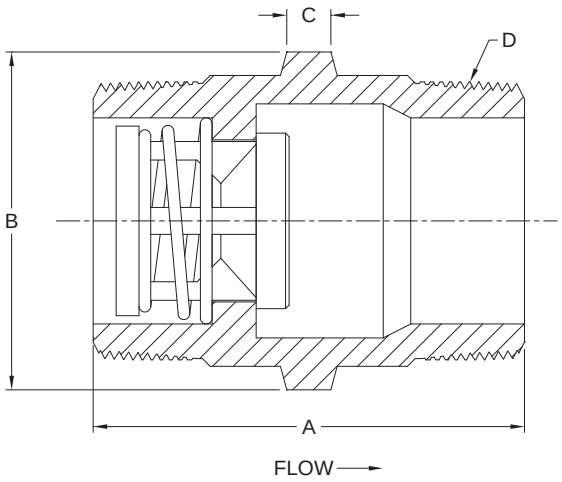
The **Connector (CN)** valve is a check valve with a hex nipple or connector housing. It is designed to be used in installations where a check valve with male pipe threads are required. The Connector valve is adaptable for use as a check valve, vacuum breaker, or low pressure relief valve. Two valves used in combination make an excellent low pressure relief/vacuum breaker. Also available with ISO 7 "R" threads.

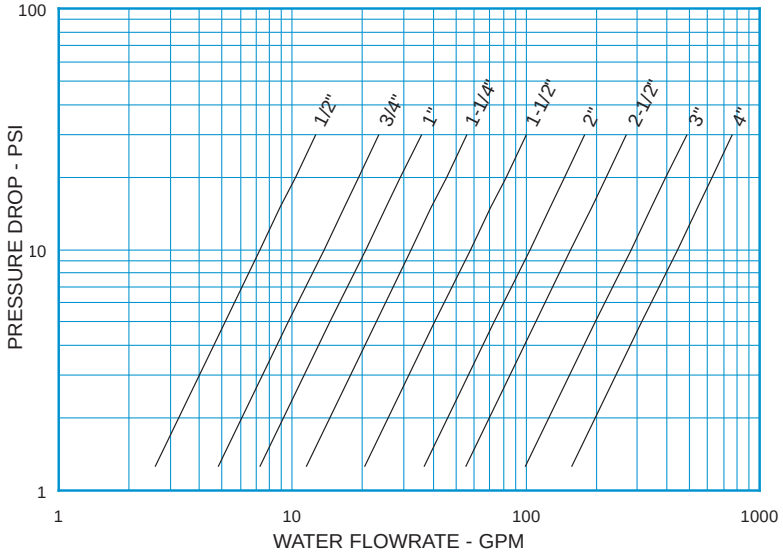


Nom. Pipe Size	Size Code	A	Hex ① Size B	C	D	Orifice Diameter
1/2	D	2.34	7/8	0.28	1/2 NPT	0.348
3/4	F	2.34	1-1/8	0.27	3/4 NPT	0.464
1	H	3.00	1-3/8	0.35	1 NPT	0.593
1-1/4	I	3.00	1-3/4	0.33	1-1/4 NPT	0.890
1-1/2	J	3.19	2	0.32	1-1/2 NPT	1.135
2	K	3.68	2-1/2	0.38	2 NPT	1.385
2-1/2	L	5.00	3-1/4	N/A	2-1/2 NPT	1.555
3	M	5.50	4	N/A	3 NPT	2.025
4	N	5.00	5	0.61	4 NPT	2.560

①May be larger and/or round.

Body Material ②	Availability	Non-Shock Pressure-Temperature Rating	
316 Stainless Steel (SS)	Standard	1/2" - 3" 3000 PSIG @ 100°F (1500 PSIG for o-ring seats)	4" 1500 PSIG @ 100°F
Carbon Steel (CS)			
Brass (BR)			
Alloy 20 (A2)	Semi-standard		
Hastelloy® C (HC)			
Monel® (MO)			
Hastelloy® B (HB)	Contact the factory for these or other materials		
Titanium (TI)			

Connector
For Water at 72°F



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

STYLE CN (CON)
C_V VALUES & VALVE WEIGHTS

C_V	SIZE	ALL MATL
2.3	1/2	2.5 oz.
4.3	3/4	3.9 oz.
6.5	1	7.5 oz.
10.2	1-1/4	10.9 oz.
18.3	1-1/2	1.5 lb.
32.7	2	2.7 lb.
49.2	2-1/2	5.0 lb.
89.0	3	8.9 lb.
140	4	10.3 lb.

See page 48 for Flow Formulae
Valve weights are approximate.

HOW TO ORDER
CHECK-ALL STYLE CN (CON)

BODY MATERIAL
ALLOY 20 = A2
BRASS = BR
CARBON STEEL = CS
HASTELLOY® B = HB
HASTELLOY® C = HC
MONEL® = MO
316 SS = SS
TITANIUM = TI
See p. 4 for Temperature ratings

SPRING CRACKING PRESSURES
Replace "X" with actual desired setting.
Must use decimal as a character.

(PSI)			FORMAT
0.000	TO	0.999	= .XXX
1.00	TO	9.99	= X.XX
10.0	TO	99.9	= XX.X
NO SPRING			= NOSPRG

STANDARD CRACKING PRESSURES① **.125 .500 1.50 3.50** (Sizes D-J Only)

Note: Many other cracking pressures are available. Consult factory.

SPECIAL OPTIONS
T = FEP ENCAPSULATED SPRING
See p. 5 for Temperature rating
Contact the factory for more options

CN

VALVE STYLE③

SIZE
1/2 = D
3/4 = F
1 = H
1-1/4 = I
1-1/2 = J
2 = K
2-1/2 = L
3 = M
4 = N

SEAT MATERIAL②
AFLAS® = AS
BUNA-N = BN
EPDM = EP
KALREZ® = KZ
METAL-TO-METAL = MT
NEOPRENE = NE
PTFE = TF
VITON® = VT
See p. 4 for Temperature ratings

SPRING MATERIAL
316 SS = SS
HASTELLOY® C = HC
HASTELLOY® B = HB
INCONEL® X-750 = IX
MONEL® = MO
17-7PH SS = PH
TITANIUM = TI
See p. 5 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. Cracking pressure tolerance is +/- 15%. .125 PSI springs are not recommended for installations with flow vertical down.**

②**Seat materials other than metal-to-metal have a maximum pressure rating of 1500 PSI. PTFE seats are not resilient. See page 49 for allowable leakage rates.**

③**Use "CR" for valves with ISO 7 "R" threads.**