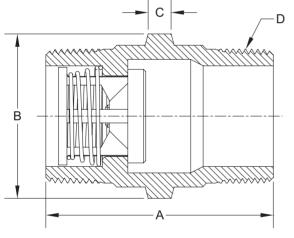






The **Connector** (**CN**, **CR**) valve is a check valve with a pipe nipple or connector housing. It is designed to be used in installations where a check valve with male pipe threads is required. The CN valve is adaptable for use as a low pressure relief valve or vacuum breaker by using the desired spring settings. Two valves used in combination make an excellent pressure vacuum vent. NPT threads are per ASME B1.20.1. Also available with ISO 7 "R" threads (CR).



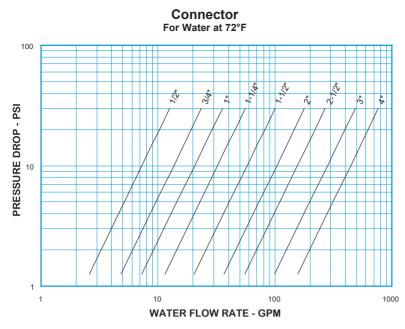
FLOW ---

Nom. Pipe Size	Size Code	А	Hex <b>0</b> Size B	с	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	Н	3.00	1-3/8	0.35	1 NPT	0.593
1-1/4		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	N/A	2 NPT	1.385
2-1/2	L	5.00	3-1/4	N/A	2-1/2 NPT	1.555
3	М	5.50	4	N/A	3 NPT	2.025
4	Ν	5.00	4-1/2	N/A	4 NPT	2.560

• May be larger and/or round.

Body Material	Availability	Non-Shock Pressure-Temp. Rating @ 100° F Consult factory for P-T rating above 100° F	
316 Stainless Steel (SS)			
Carbon Steel (CS)	Standard		
Brass (BR)		1/2" - 3" 3000 PSIG (1500 PSIG for o-ring seats)	4″ 1500 PSIG
Alloy 20 (A2)			
Alloy C-276 (HC)	Semi-standard		
MONEL <sup>®</sup> 400 or Alloy R405			
Alloy B (HB)	Contact the factory for these or		
Titanium (TI)	other materials		

**2** See page 55 for material grade information.

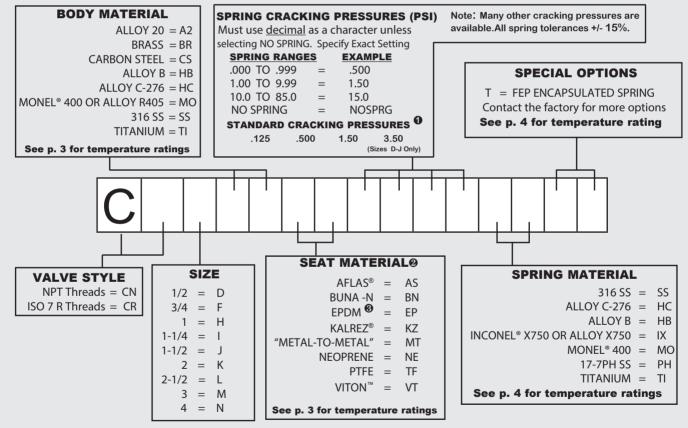


**Note:** All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE CN						
C <sub>V</sub> VALUES & VALVE WEIGHTS						
-						
С <sub>V</sub>	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	11.1 lb.				

See page 51 for Flow Formulae. Valve weights are approximate.

## HOW TO ORDER CHECK-ALL STYLE CN



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. .125 PSI springs are not recommended for installations with flow vertical down.

- Seat materials other than "metal-to-metal" have a maximum pressure rating of 1500 PSI. "Metal-to-Metal" and PTFE seats are not resilient. See page 52 for allowable leakage rates.
- 8 EP seats not recommended for use with Carbon Steel valves.

## www.checkall.com

## sales@checkall.com ISO 9001 CERTIFIED

MADE IN USA 2019

Page information references listed on this cut sheet are available in the printed catalog as well as the digital catalog, which is available at www.checkall.com.

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