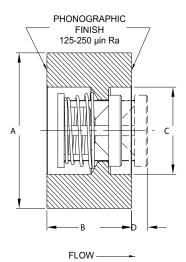






The Wafer Insert (WV) valve is designed to fit between two mating ANSI flanges. Two gaskets are required, instead of the one normally used in a flanged joint. The "drop in" valve body fits inside the bolt circle for quick installation and removal in rigid piping applications where the use of the F1, F6, or FP (see our Flange Insert series on page 5) is not practical. Many valves in this series can meet API 594 and/or B16.34 requirements. Consult the factory for more information.

The Wafer Insert valve can also be used as a low pressure relief valve or vacuum breaker by using the desired spring settings.



Nom. Pipe Size	Size Code	А	В	С	D @	Orifice Diameter
1/2	D	1-3/8	1.38	0.62	N/A	0.348
3/4	F	1-3/4	1.38	0.82	N/A	0.464
1	Н	2	1.38	1.05	0.35	0.593
1-1/4	I	2-1/2	1.63	1.38	0.27	0.890
1-1/2	J	2-7/8	1.63	1.61	0.54	1.135
2	K	3-5/8	2.38	2.07	0.18	1.385
2-1/2	L	4-1/4 ⁰	2.62	2.47	0.32	1.555
3	М	5	2.88	3.07	0.43	2.025
4	N	6-3/16	2.88	4.03	1.26	2.560

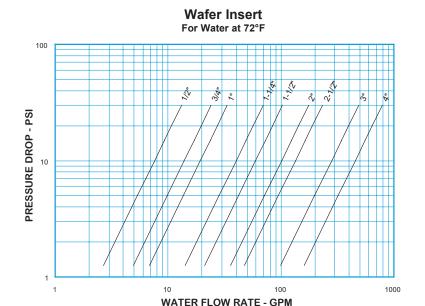
- Due to material availability, may be 4-1/8".
- 2 Maximum nominal dimension for a fully open valve with no spring.

Phone: 515-224-2301

Fax: 515-224-2326

Body Material [€]	Nominal Pipe Size	Non-Shock Pressure-Temp. Rating
316 Stainless Steel (SS) Carbon Steel (CS)	1/2" - 1"	ANSI Class 150 - 2500 (1500 PSIG @ 100°F for o-ring seats)
Alloy 20 (A2) Alloy C-276 (HC)	1-1/4" - 2-1/2"	ANSI Class 150 - 1500 (1500 PSIG @ 100°F for o-ring seats)
Alloy B (HB) MONEL [®] 400 or Alloy R405 (MO)	3"	ANSI Class 150 - 900 (1500 PSIG @ 100°F for o-ring seats)
Titanium (TI)	4"	ANSI Class 150 - 600
Brass (BR)	1/2" - 4"	ANSI Class 150 - 300

³ See page 58 for material grade information.

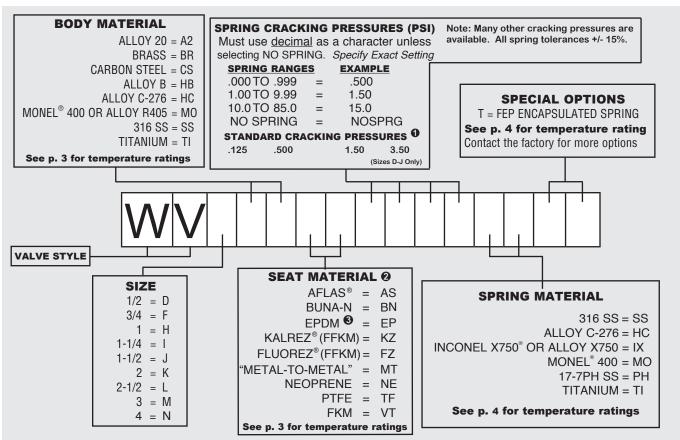


Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE WV C _V VALUES & VALVE WEIGHTS							
C _v	SIZE SS & CS		BRASS				
2.4	1/2	9.5 oz.	10.2oz.				
4.4	3/4	12.6 oz.	13.5 oz.				
6.1	1	1.0 lb.	1.1 lb.				
12.7	1-1/4	1.8 lb.	1.9 lb.				
18.8	1-1/2	2.4 lb.	2.5 lb.				
32.0	2	5.2 lb.	5.6 lb.				
42.5	2-1/2	7.8 lb.	8.4 lb.				
89.0	3	11.4 lb.	12.4 lb.				
144	4	17.2 lb.	18.4 lb.				

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

HOW TO ORDER CHECK-ALL STYLE WV



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

- .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.
- 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 54 for allowable leakage rates.
- EP seats not recommended for use with Carbon Steel valves.