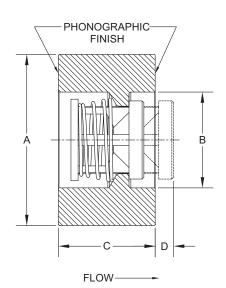






The **Wafer Insert (WV)** valve is designed to fit between two mating ANSI flanges. Two gaskets are required, instead of the one normally used in a flanged joint. The "drop in" valve body fits inside the bolt circle for quick installation and removal in rigid piping applications where the use of the 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	A	В	С	D <b>0</b>	Orifice Diameter
1/2	D	1-3/8	0.62	1.38	N/A	0.348
3/4	F	1-3/4	0.82	1.38	N/A	0.464
1	Н	2	1.05	1.38	0.35	0.593
1-1/4		2-1/2	1.38	1.63	0.27	0.890
1-1/2	J	2-7/8	1.61	1.63	0.54	1.135
2	K	3-5/8	2.07	2.38	0.17	1.385
2-1/2	L	4-1/8	2.47	2.62	0.31	1.555
3	M	5	3.07	2.88	0.42	2.025
4	N	6-3/16	4.03	2.88	1.25	2.560

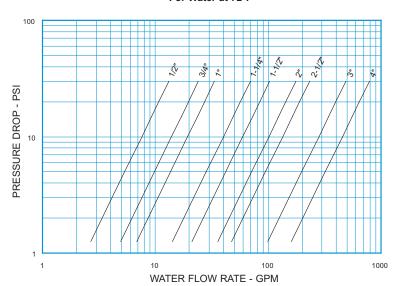
• Maximum nominal dimension for a fully open valve with no spring.

Body Material <b>2</b>	Nominal Pipe Size	Non-Shock Pressure-Temperature Rating	
316 Stainless Steel (SS) Carbon Steel (CS)	1/2" - 2-1/2"	ANSI Class 150 - 1500 (1500 PSIG for o-ring seats)	
Alloy 20 (A2) Alloy C-276 (HC) Alloy B (HB)	3"	ANSI Class 150 - 900 (1500 PSIG for o-ring seats)	
Alloy 400 or Monel ® (MO) Titanium (TI)	4"	ANSI Class 150 - 600	
Brass (BR)	1/2" - 4"	ANSI Class 150 - 300	

2 See page 54 for material grade information.

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## Wafer Insert For Water at 72°F

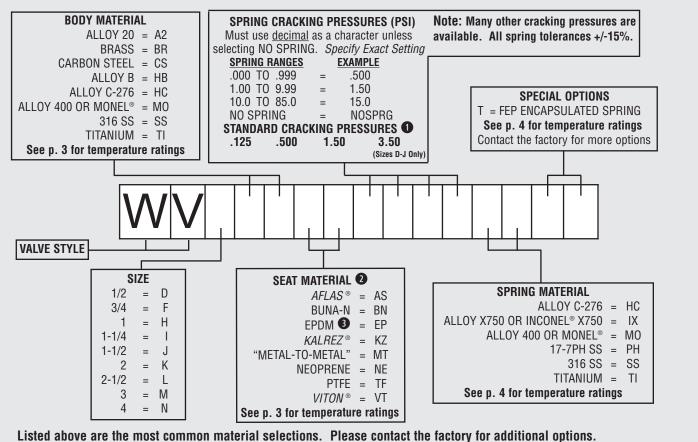


Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE WV C <sub>V</sub> VALUES & VALVE WEIGHTS							
C <sub>V</sub>	SIZE	SS & CS ALLOYS	BRASS				
2.4	1/2	9.5 oz.	10.2 oz.				
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	7.2 lb.	7.7 lb.				
89.0	3	11.4 lb.	12.4 lb.				
144	4	17.2 lb.	18.4 lb.				

See page 49 for Flow Formulae. Valve weights are approximate.

## **HOW TO ORDER CHECK-ALL STYLE WV**



- .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 50 for allowable leakage rates.
- **3**EP seats not recommended for use with Carbon Steel valves.