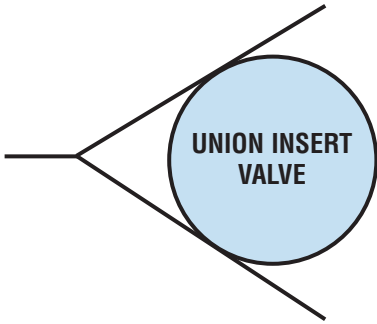




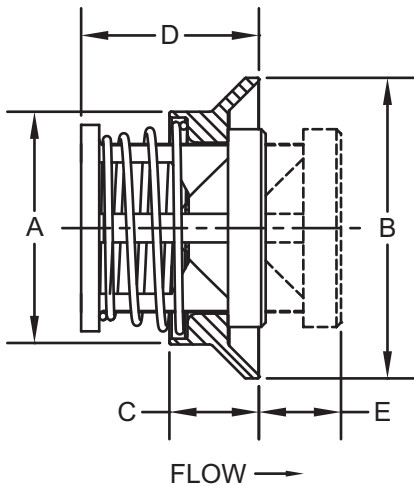
See page 56
Non-PED statement



Union not included.

The **Union Insert (UV)** valve is the threaded pipe counterpart of the Flange Insert Valve. Designed to be inserted into most standard and hammer type ground joint unions, it provides the simplest and most economical way to install a check valve in a threaded pipe system. A check valve may be installed anywhere in the system where there is a union. The valve works equally well in either a horizontal or vertical position with proper spring selection. Each Union Insert valve is furnished with a **metal tag**, which is quickly attached to the union when the valve is installed. This provides a **permanent visual** notification that the union contains a check valve. The UV valve can also be used as a low pressure relief valve or vacuum breaker by using the desired spring settings.

NOTE: Bore of union must be equal to I.D. of schedule 40 pipe. Use ground joint unions with 45° seat only (union not included).



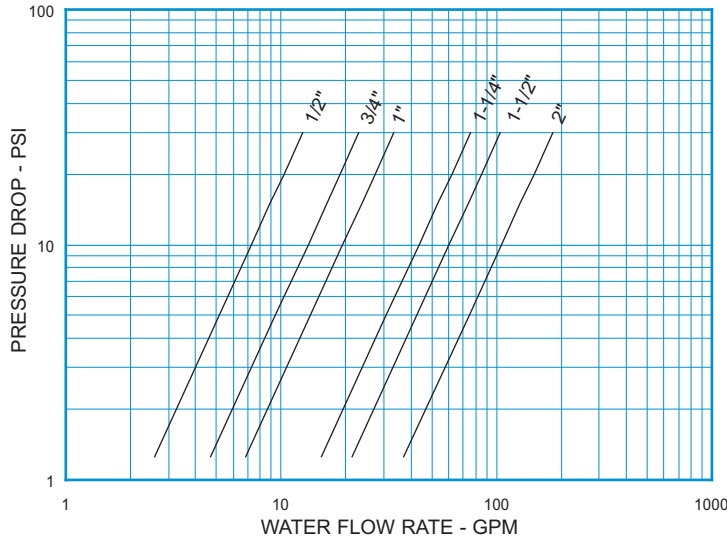
Nom. Pipe Size	Size Code	A	B	C	D	E ①	Orifice Diameter
1/2	D	0.587	0.937	0.42	0.78	0.41	0.348
3/4	F	0.794	1.125	0.40	0.81	0.44	0.464
1	H	1.032	1.437	0.45	1.09	0.56	0.593
1-1/4	I	1.365	1.750	0.56	1.19	0.70	0.890
1-1/2	J	1.598	2.000	0.60	1.32	0.80	1.135
2	K	2.005	2.500	0.67	1.57	0.92	1.385

① Maximum nominal dimension for a fully open valve with no spring.

Body Material ②	Availability	Non-Shock Pressure-Temperature Rating
316 Stainless Steel (SS)	Standard	3000 PSIG @ 100°F (1500 PSIG for o-ring seats)
Carbon Steel (CS)		
Brass (BR)		
Alloy 20 (A2)	Semi-standard	
Alloy C-276 (HC)		
Alloy 400 or Monel® (MO)	Contact the factory for these or other materials	
Alloy B (HB)		
Titanium (TI)		

② See page 54 for material grade information.

Union Insert Valve
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 UV C _v VALUES & VALVE WEIGHTS		
C _v	SIZE	ALL MATL
2.3	1/2	0.5 oz.
4.2	3/4	0.8 oz.
6.1	1	1.6 oz.
13.8	1-1/4	2.8 oz.
19.0	1-1/2	4.3 oz.
33.3	2	7.8 oz.

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

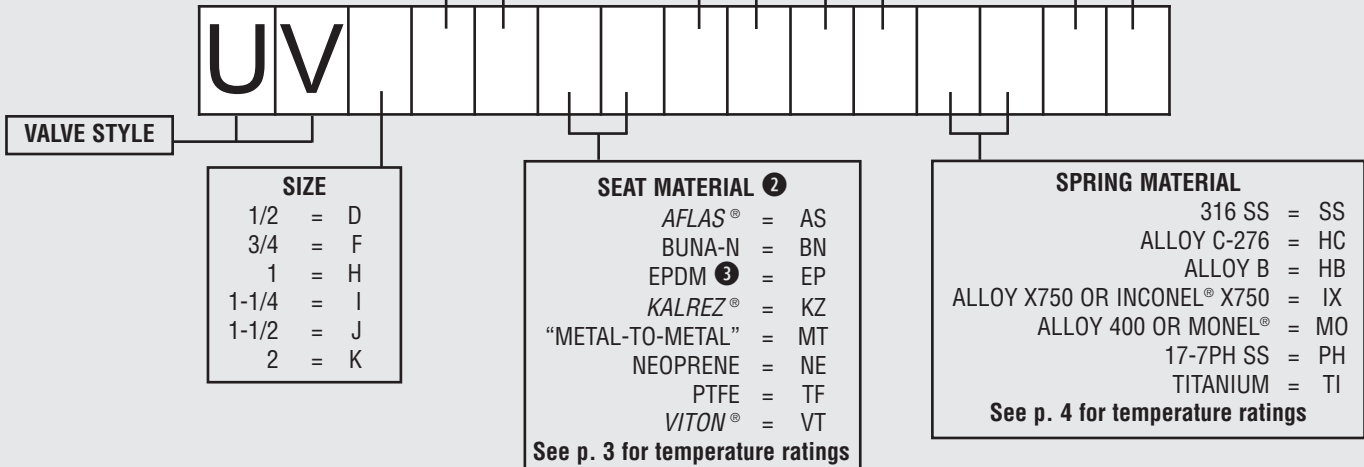
**HOW TO ORDER
CHECK-ALL STYLE UV**

BODY MATERIAL
 ALLOY 20 = A2
 BRASS = BR
 CARBON STEEL = CS
 ALLOY B = HB
 ALLOY C-276 = HC
 ALLOY 400 OR MONEL® = MO
 316 SS = SS
 TITANIUM = TI
 See p. 3 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 D-J Only)

Note: Many other cracking pressures are available. All spring tolerances +/- 15%.

SPECIAL OPTIONS
 T = FEP ENCAPSULATED SPRING
 See p. 4 for temperature rating
 Contact the factory for more options



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.
- ② 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.