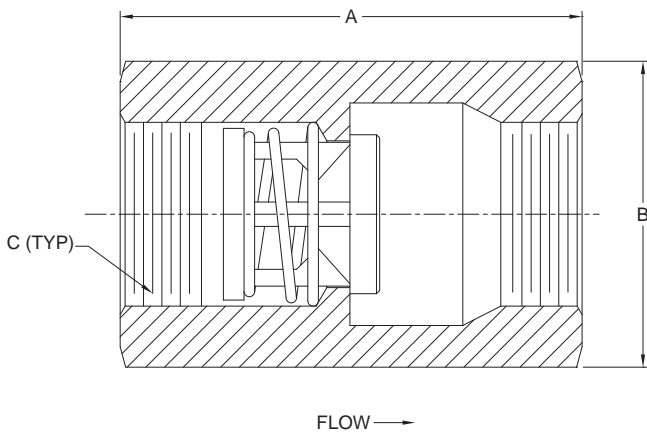




The **Universal Low Pressure (U3)** check valve is a one piece body machined from bar stock and is designed for minimum pressure drop. The valve has a light weight compact design that provides maintenance-free dependable service. Also available with ISO 7 “Rp” threads. (UR)



Nom. Pipe Size	Size Code	A	Hex <sup>①</sup> Size B	C <sup>②</sup>	Orifice Diameter
3/8	C	2.16	13/16	3/8 NPT	0.348
1/2	D	2.71	1-1/8	1/2 NPT	0.464
3/4	F	2.95	1-1/4	3/4 NPT	0.593
1	H	3.64	1-5/8	1 NPT	0.890
1-1/4	I	3.91	2-1/4	1-1/4 NPT	1.135
1-1/2	J	4.36	2-1/2	1-1/2 NPT	1.385
2	K	5.85	3	2 NPT	1.555
2-1/2	L	5.50	3-3/4	2-1/2 NPT	1.555
3	M	6.25	4-1/2	3 NPT	2.025
4	N	7.13	5-1/2	4 NPT	2.560

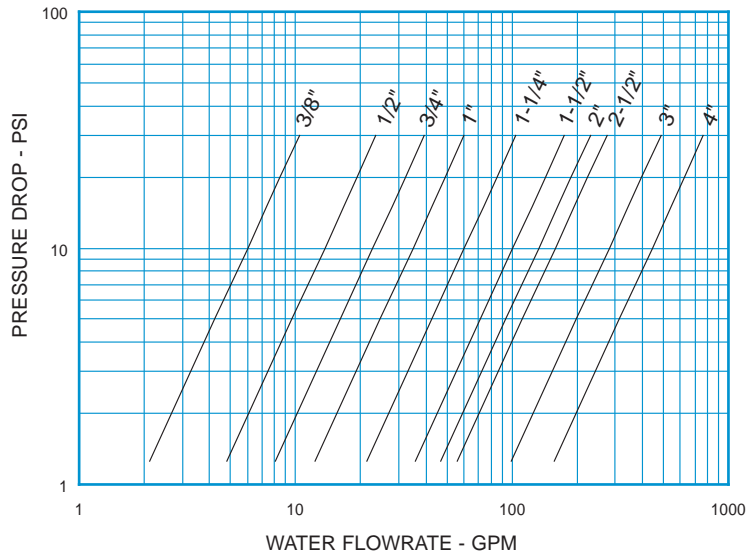
<sup>①</sup> May be larger and/or round.

<sup>②</sup> Consult factory for ISO 7 “Rp” threads.

Body Material <sup>③</sup>	Availability	Non-Shock Pressure-Temperature Rating	
316 Stainless Steel (SS)	Standard	3/8 - 3	4
Carbon Steel (CS)			
Brass (BR)			
Alloy 20 (A2)	Semi-standard	3000 PSIG @ 100°F (1500 PSIG for o-ring seats)	1500 PSIG @ 100°F
Hastelloy® C (HC)			
Mone® (MO)			
Hastelloy® B (HB)	Contact the factory for these or other materials		
Titanium (TI)			

<sup>③</sup> See page 53 for material grade information.

**Universal Low Pressure**  
For Water at 72°F

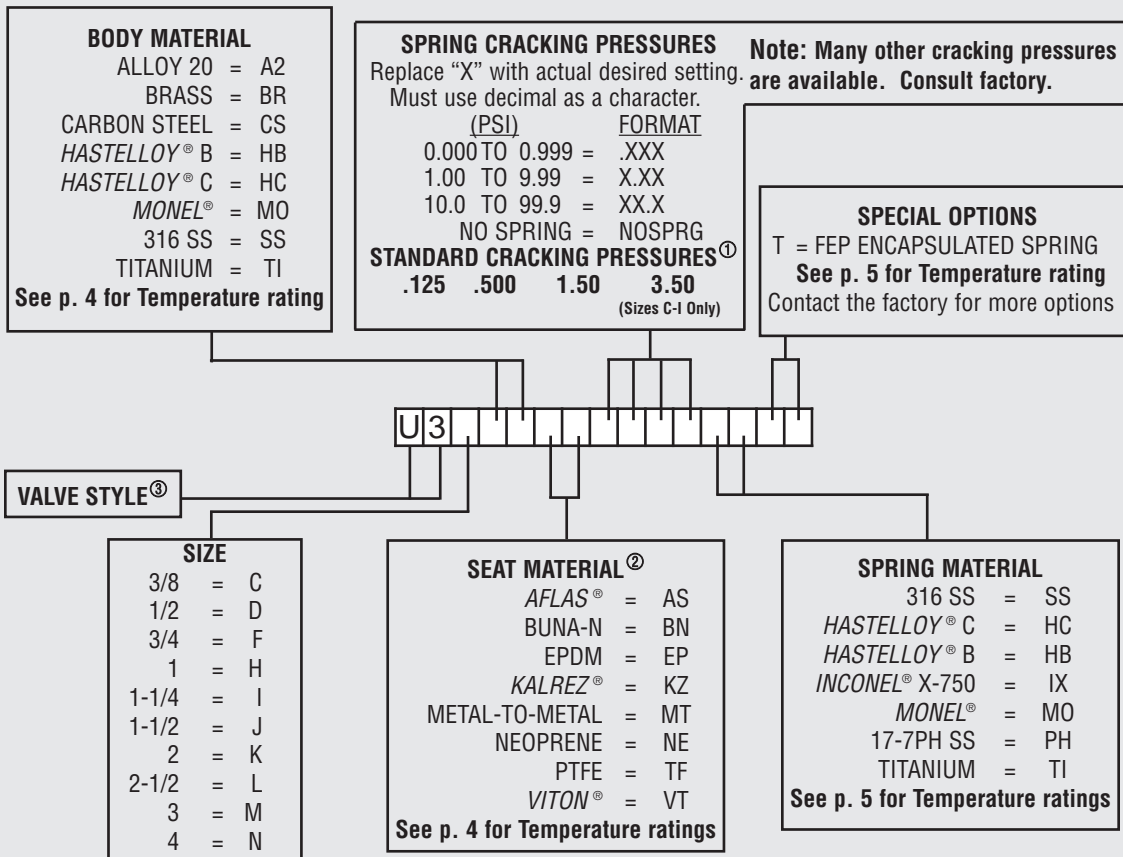


**Note:** All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE U3 (UN-3) C <sub>v</sub> VALUES & VALVE WEIGHTS			
C <sub>v</sub>	SIZE	SS & CS ALLOYS	BRASS
1.9	3/8	3.0 oz.	3.3 oz.
4.3	1/2	8.5 oz.	9.1 oz.
7.2	3/4	9.6 oz.	10.1 oz.
11.0	1	1.2 lb.	1.3 lb.
19.0	1-1/4	2.9 lb.	3.2 lb.
31.9	1-1/2	3.6 lb.	3.9 lb.
42.0	2	6.5 lb.	7.2 lb.
50.0	2-1/2	9.2 lb.	10.0 lb.
89.0	3	14.3 lb.	15.5 lb.
140	4	21.5 lb.	23.3 lb.

See page 48 for Flow Formulae  
Valve weights are approximate.

**HOW TO ORDER**  
**CHECK-ALL STYLE U3 (UN-3)**



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 "UR" for valves with ISO 7 "Rp" threads.