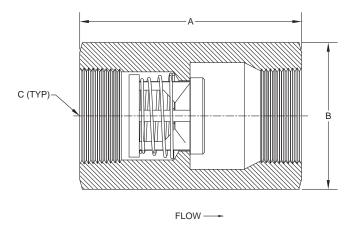


The **Universal Low Pressure (U3, UR)** check valve is a one piece body machined from bar stock and is designed for minimum pressure drop. The valve has a light-weight, compact design that provides maintenance-free, dependable service. NPT threads are per ASME B1.20.1. Also available with ISO 7 "Rp" threads. (UR). These valves can also be used as a low pressure relief valve or vacuum breaker by using the desired spring settings.

**NOTE:** Many valves in this series can be supplied with B16.34 certification. Consult the factory for more information.



Nom. Pipe Size	Size Code	A	Hex <b>1</b> Size B	C	Orifice Diameter
3/8	С	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	Н	3.64	1-5/8	1 NPT	0.890
1-1/4		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	Ĺ	5.50	3-3/4	2-1/2 NPT	1.555
3	М	6.25	4-1/2	3 NPT	2.025
4	Ν	7.13	5-1/2	4 NPT	2.560

• May be larger and/or round.

Body Material 🛛	Availability	Non-Shock Pressure-Temperature Rating			
316 Stainless Steel (SS)					
Carbon Steel (CS)	Standard				
Brass (BR)		3/8" - 3"			
Alloy 20 (A2)		0/0 - 0	4"		
Alloy C-276 (HC)	Semi-standard	3000 PSIG @ 100°F	1500 PSIG @ 100°F		
Alloy 400 or Monel ® (MO)		(1500 PSIG for o-ring seats)			
Alloy B (HB)	Contact the factory for these or				
Titanium (TI)	other materials				

**2**See page 54 for material grade information.

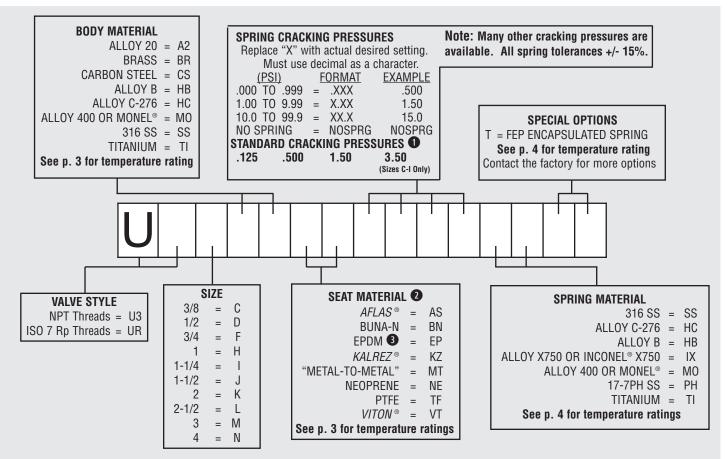
WATER FLOW RATE - GPM

**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 C <sub>V</sub> VALUES & VALVE WEIGHTS						
Cv	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 lb.			
89.0	3	14.3 lb.	15.5 lb.			
140	4	21.7 lb.	23.9 lb.			
Soo page 40 for Flow Formulae						

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

## HOW TO ORDER CHECK-ALL STYLE U3



## 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. .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.

BEP seats not recommended for use with Carbon Steel valves.

AF M

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