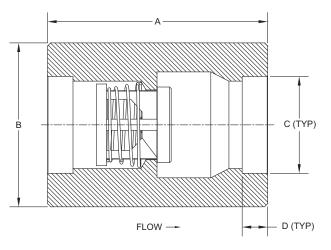


The **Universal Socket Weld (US)** check valve is a one piece body machined from bar stock with socket weld ends and is designed for a minimum pressure drop. It carries rugged, dependable Check-All<sup>®</sup> trim and there are a wide variety of seat materials and cracking pressures to choose from. The socket ends are machined to ASME/ANSI B16.11 dimensions. The US valve can also be used as a low pressure relief valve or vacuum breaker by using the desired spring settings.

**CAUTION:** Please take sufficient measures when welding to prevent heat build-up and possible damage to the valve seat. See page 51 for additional installation information.



Nom. Pipe Size	Size Code	A	В 🚺	C 2	D 2	Orifice Diameter
3/8	С	2.16	1-1/8	0.695	0.385	0.348
1/2	D	2.71	1-5/16	0.860	0.385	0.464
3/4	F	2.95	1-5/8	1.070	0.505	0.593
1	Н	3.64	2-1/4	1.335	0.505	0.890
1-1/4		3.91	2-3/4	1.680	0.505	1.135
1-1/2	J	4.36	3-1/4	1.920	0.505	1.385
2	K	5.85	3-1/2	2.411	0.625	1.555
2-1/2	L	5.00	3-3/4	2.919	0.625	1.555
3	М	5.44	4-1/2	3.545	0.625	2.025
4	Ν	6.80	5-1/2	4.550	0.755	2.560

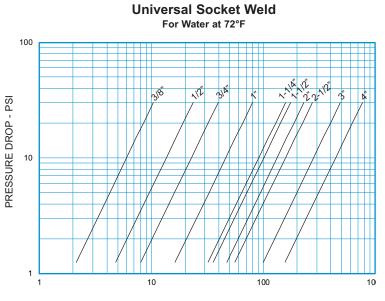
• May be larger.

2 Sockets per ASME/ANSI B16.11.

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

Body Material <b>3</b>	Availability	Non-Shock Pressure-Temperature Rating		
316/316L Stainless Steel (SS)	Standard			
Carbon Steel (CS)	Stanuaru			
Alloy 20 (A2)		3/8" - 2-1/2" 5000 PSIG @ 100°F (1500 PSIG for o-ring seats)	3" 3000 PSIG @ 100°F (1500 PSIG for o-ring seats)	4" 1500 PSIG @ 100°F
Alloy C-276 (HC)	Semi-standard			
Alloy 400 or Monel ® (MO)				
Alloy B (HB)	Contact the factory for these or other materials			

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



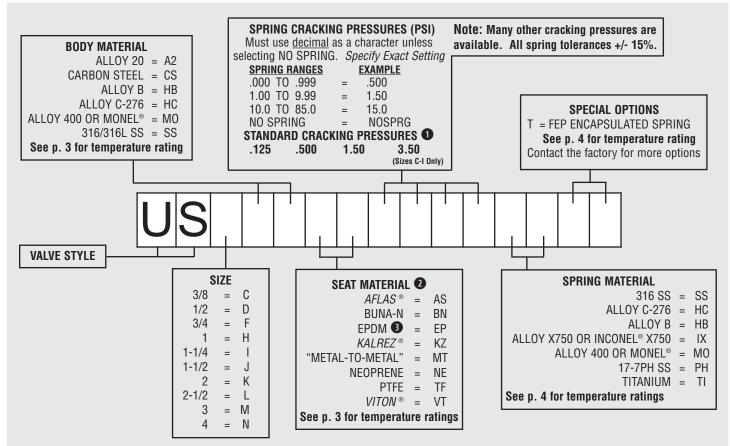
**Note:** All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE US C <sub>V</sub> VALUES & VALVE WEIGHTS					
Cv	SIZE	SS & CS ALLOYS			
1.9	3/8	5.1 oz.			
4.3	1/2	11.5 oz.			
7.2	3/4	1.2 lb.			
11.0	1	3.1 lb.			
19.0	1-1/4	4.9 lb.			
31.9	1-1/2	7.4 lb.			
42.0	2	9.8 lb.			
50.0	2-1/2	8.8 lb.			
89.0	3	13 lb.			
140	4	22.3 lb.			

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

WATER FLOW RATE - GPM

## HOW TO ORDER CHECK-ALL STYLE US



## 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.
- **③**EP seats not recommended for use with Carbon Steel valves.

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ISO 9001 CERTIFIED

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