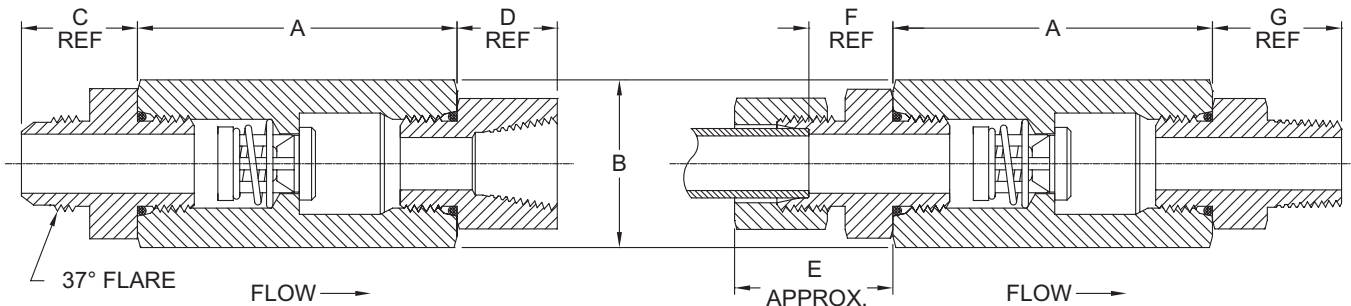


The **Mini-Check (M1 - M8)** is designed for minimum pressure drop. The three-piece construction permits many combinations of end fittings, which makes the valve adaptable for nearly every application. The Mini-Check is available with 1/8, 1/4, and 3/8 inch pipe threads, both male and female. It can also be supplied with a 1/8, 1/4, or 3/8 inch **tubing end** on one side and with a **pipe thread end** on the other. **Combinations** of male and female threads are also available. The Mini-Check 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.

- M1 – Male pipe threads both ends.
- M2 – Female pipe threads both ends.
- M3 – Male pipe **inlet** – female pipe **outlet**.
- M4 – Female pipe **inlet** – male pipe **outlet**.
- M5 – Male pipe **inlet** – tubing **outlet**.
- M6 – Female pipe **inlet** – tubing **outlet**.
- M7 – Tubing **inlet** – male pipe **outlet**.
- M8 – Tubing **inlet** – female pipe **outlet**.

**NOTE:** When ordering styles M5 through M8 be sure to specify whether **compression (-C)** or **37° flare (-F)**.



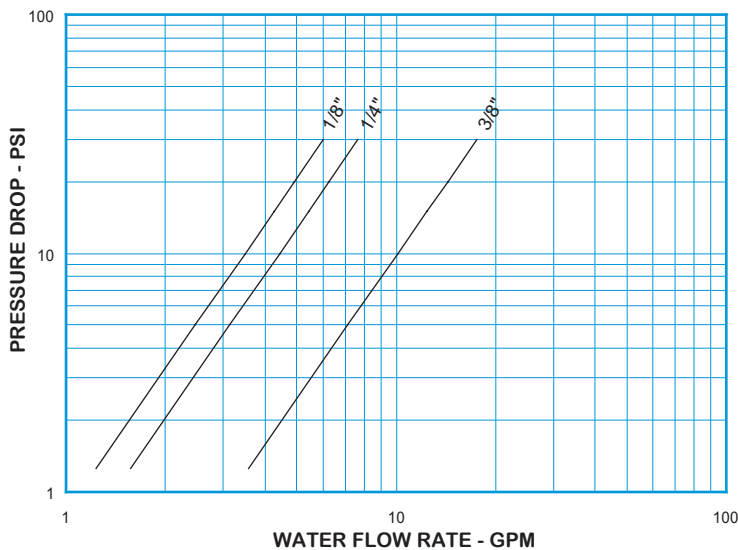
Nom. Pipe & Tube Size	Size Code	A	Hex Size B <sup>①</sup>	C	D	E	F	G	Orifice Diameter
1/8	A	2.16	7/8	0.75	0.71	0.93	0.11	0.73	0.348
1/4	B	2.16	7/8	0.92	0.84	1.23	0.57	0.97	0.348
3/8	C	2.48	1-1/8	0.92	0.91	1.32	0.59	1.00	0.464

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

Body Material <sup>②</sup>	Non-Shock Pressure-Temp. Rating @ 100° F Consult factory for P-T rating above 100° F
316 Stainless Steel (SS)	5000 PSIG (1500 for o-ring seats)
Carbon Steel (CS)	
Brass (BR)	3000 PSIG (1500 for o-ring seats)

<sup>②</sup> See page 56 for material grade information.

**Mini Check**  
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 M1-M8 C <sub>v</sub> VALUES & VALVE WEIGHTS		
C <sub>v</sub>	SIZE	ALL MATL
1.1	1/8	6.2 oz.
1.4	1/4	7.3 oz.
3.2	3/8	11.8 oz.

See page 51 for Flow Formulae.  
Valve weights are approximate.

**HOW TO ORDER  
CHECK-ALL STYLE M1 - M8**

**BODY MATERIAL** ②

BRASS = BR  
CARBON STEEL = CS  
316 SS = SS

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
------	------	------	------

**Special Options**

T = FEP ENCAPSULATED SPRING  
-O = Outer o-ring seals same as seat

**See pages 3 & 4 for temperature rating**

-C = Compression Tube (M5 - M8 only)  
-F = Flared Tube (M5 - M8 only)

**VALVE STYLE**

M1  
M2  
M3  
M4  
M5  
M6  
M7  
M8

**SIZE**

1/8 = A  
1/4 = B  
3/8 = C

SEAT MATERIAL	STANDARD END FITTING O-RING MATERIAL
AFLAS® = AS	PTFE (TF)
BUNA-N = BN	BUNA-N (BN)
EPDM ④ = EP	EPDM ④ (EP)
KALREZ® = KZ	PTFE (TF)
"METAL-TO-METAL" = MT	SEE NOTE BELOW ⑤
NEOPRENE = NE	NEOPRENE (NE)
PTFE (TF) = TF	PTFE (TF)
VITON™ = VT	VITON™ (VT)

**See p. 3 for temp ratings**

**SPRING MATERIAL**

316 SS = SS  
ALLOY C-276 = HC  
INCONEL® X750 OR ALLOY X750 = IX  
MONEL® 400 = MO  
17-7PH SS = PH  
TITANIUM = TI

**See p. 4 for temperature ratings**

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 Brass valves have plated Carbon Steel tube fittings if applicable. Consult factory if other body or fitting materials are desired.
- ③ 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 52 for allowable leakage rates.
- ④ EP seats not recommended for use with Carbon Steel valves.
- ⑤ Fitting o-rings are the same as the seat for standard seat materials. For "metal-to-metal" seated valves, end fitting o-ring are Buna -N for brass and carbon steel valves and VITON™ for stainless steel valves.