

SPECIFICATIONS:

- PSI / Temperature Rating:** 600 wog
- Body Material:** Forged Brass ASTM B283-06
- Flow Element:** Brass Venturi
- End Connections:** Brass – NPT or Sweat
- Union Seal:** EPDM O-ring
- Body Tappings¹:** Two Combination P/T Test Valve and Manual Air Vent (CPTA)
- Assembly:** Valve comes fully assembled
- Installation:** Straight sections of piping upstream and downstream of the Metering Station aren't necessary for proper pressure measurement.
- Options:** Insulation Option

FLOW RATES (+/-3%)

| OUTLET SIZE | MODEL NO. | FLOW GPM ⁽²⁾ AT 4 FT/SEC | Cv ⁽³⁾ | GPM RANGE FOR 5"-100" W.C. ΔP (SET W/100" GAUGE) | GPM RANGE FOR 5"-300" W.C. ΔP (SET W/300" GAUGE) |
|-------------|-----------|-------------------------------------|-------------------|--|--|
| 1/2", 3/4" | MS0 | 3.8 | 0.39 ⁴ | 0.15 – 0.67 | 0.15 – 1.16 |
| | | | 1.1 | 0.3 – 1.4 | 0.3 – 2.4 |
| | | | 2.5 | 0.6 – 2.8 | 0.6 – 4.6 |
| | | | 4.2 | 1.2 – 5.4 | 1.2 – 9.4 |
| 1" | MS1 | 10.8 | 1.8 | 0.6 – 2.8 | 0.6 – 5.0 |
| | | | 3.8 | 1.3 – 5.6 | 1.3 – 9.7 |
| | | | 7.6 | 2.6 – 11.5 | 2.6 – 19.9 |
| | | | 12.2 | 3.9 – 17.3 | 3.9 – 30.0 |
| 1-1/4" | MS2 | 18.7 | 10.0 | 3.4 – 15.0 | 3.4 – 26.2 |
| 1-1/2" | MS2 | 25.4 | 21.8 | 7.2 – 32.3 | 7.2 – 55.9 |
| | | | 54.7 | 13.9 – 62.0 | 13.9 – 107.4 |
| 2" | MS3 | 41.9 | 105.2 | 21.6 – 96.5 | 21.6 – 167.1 |

DIMENSIONS & WEIGHTS (NOMINAL)

| SIZE | A - FIXED END CONNECTION | | B - UNION END CONNECTION ⁵ | | | | | | H OVERALL HEIGHT | WEIGHT (LBS.) | | |
|--------|--------------------------|-----|---------------------------------------|-----------------------|-----------------------------------|----------------|---------------|------------|------------------|---------------|-----|--------|
| | FNPT | SWT | FNPT | | MNPT | | SWT | | | | | |
| 1/2" | 2.0 | 1.9 | 1/2":1.0 | 3/4":N/A ⁶ | 1/2":1.0 | 3/4":1.2 | 3/8",1/2":0.8 | | 3/4":1.1 | 3.0 | 0.5 | |
| 3/4" | 1.9 | 1.9 | | | | | 1/2":0.7 | | | | | 1":1.3 |
| 1" | 2.2 | 2.2 | 1/2",3/4":1.0 | 1":N/A ⁶ | 1/2"-3/4":1.0 | 1":1.4 | 3/8",3/4":1.0 | 1/2":0.7 | 1":1.3 | 3.8 | 1.4 | |
| 1-1/4" | 2.6 | 2.6 | 1",1-1/4",1-1/2":1.7 | | 1",1-1/4",1-1/2":1.7 ⁷ | | 1",1-1/4":1.7 | | 1-1/2":1.4 | | 4.5 | 2.9 |
| 1-1/2" | 2.8 | 2.8 | | | | | | | | | | |
| 2" | 2.8 | 2.8 | 1-1/4",1-1/2":1.6 | 2": N/A ⁶ | 1",1-1/4":1.8 | 1-1/2", 2":1.6 | 1-1/4",2":1.6 | 1-1/2":1.7 | | 5.2 | 3.9 | |

NOTES

- ¹ Body Tappings for accessories are a leak proof metal to metal seal and do not require pipe dope or tape. Tape or dope should not be used.
- ² The generally accepted upper limit as recommended by ASHRAE to prevent pipe noise is 4 ft/sec.
- ³ Cv's are used to calculate the permanent pressure drop. $PSID=(Flow/Cv)^2$. Use the Flow Curve for flow measurement.
- ⁴ Cv of .39 is not available in the 3/4" size.
- ⁵ For overall length, add union end connection length to body length.
- ⁶ Tailpiece is not available for this size. Male tailpiece used with coupling.
- ⁷ 1-1/4"-1-1/2" valves can also take 1/2"-3/4" MNPT tailpieces.

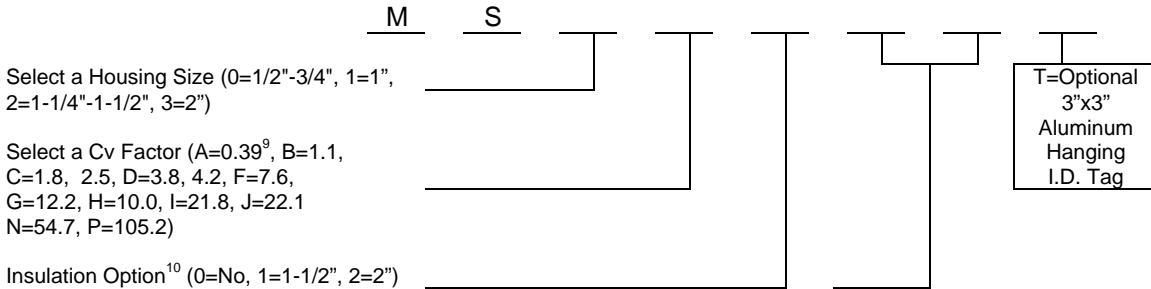
Replaces form F-4204

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MODEL NUMBER SELECTION⁸



| Valve | FIXED END OR UNION END ¹¹ (No Union Tailpiece=Z) | | UNION END ONLY ¹¹ |
|-------|---|---|--|
| | Female Threaded | Female Sweat | Male Threaded |
| MS0 | 1/2"=E, 3/4"=F ⁶ | 3/8"=K ¹² , 1/2"=L, 3/4"=M | 1/2"=H, 3/4"=I |
| MS1 | 1/2"=E ¹² , 3/4"=F ¹² , 1"=G ⁶ | 3/8"=K ¹² , 1/2"=L ¹² , 3/4"=M ¹² , 1"=N | 1/2"=H, 3/4"=I, 1"=J |
| MS2 | 1"=G ¹² , 1-1/4"=P, 1-1/2"=Q | 1"=N ¹² , 1-1/4"=K, 1-1/2"=W | 1/2"=H, 3/4"=I, 1"=J, 1-1/4"=S, 1-1/2"=T |
| MS3 | 1-1/4"=P ¹² , 1-1/2"=Q ¹² , 2"=R ⁶ | 1-1/4"=K ¹² , 1-1/2"=W ¹² , 2"=Y | 1-1/4"=S, 1-1/2"=T, 2"=U |

NOTES

⁸ Model no. and flow rate are indicated on label affixed to body.

⁹ Cv of .39 is not available in the 3/4" size.

¹⁰ Insulation Option includes Accessory extensions.

¹¹ Select the Fixed End First and the Union End Second.

¹² Fixed end not available for this size. Union tailpiece only.

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