

MAC[®]

V A L V E S



FILLING

Solutions





V A L V E S

MAC'S ADVANTAGE

RELIABILITY = NON STICKING

MAC Valves Inc. is a global leader in air valve solutions for the filling industry. Speed and repeatability, critical filling parameters, are inherent benefits of MAC's product design. Thanks to these characteristics, MAC valves have been proven to optimize cycle time and significantly improve fill consistency.

DESIGN FEATURES = PERFORMANCE BENEFITS

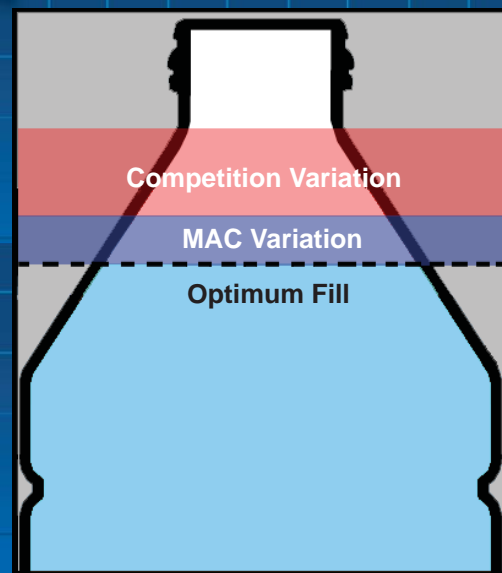
- **Balanced Design** ————— ● *Unaffected by fluctuations in air pressure*
- **Wiping Action** ————— ● *Virtually unaffected by typically contaminated air*
- **Calibrated Strokes** ————— ● *Extremely repeatable response times & flow*
- **High Shifting Forces** ————— ● *High Speed & Reliability*



More Repeatable = \$ Savings \$

Response Time Comparisons (ms)

	Competition	MAC Bullet Valve
01	39.2	28.8
02	40.8	28.8
03	40.0	28.8
04	41.6	29.6
05	40.8	28.8
06	39.2	28.8
07	43.2	28.8
08	40.0	29.6
09	40.0	28.8
10	40.8	28.8
11	40.0	28.8
12	38.4	28.8
13	42.4	29.6
14	36.8	30.4
15	40.2	29.6
16	42.4	30.4
Variance	+ / - 3.2	+ / - .8



Valves That Don't StickSM

FILLING SOLUTIONS



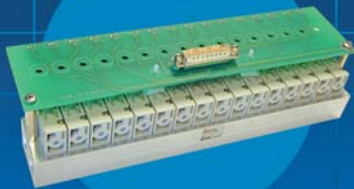
MAC ADVANTAGES

- **Bullet Valve® Technology**
- **Longer-Life**
- **More Reliable**
- **More Repeatable**
- **Consistent Fill Levels**
- **Simplified Field Service**
- **Drop-in Manifold Replacement**

MAC Solutions



Existing Configurations



CURRENT CHALLENGES

- **Poor Reliability - Sticking**
- **Difficult to Service**
- **Inconsistent Fill Levels**
- **High Cost of Ownership**

MAC[®]

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