

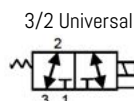
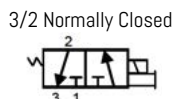
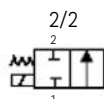
# BV09 - 9mm BULLET VALVE

The BV09 represents yet another evolution in air valve technology from MAC. The Bullet Valve® utilizes “lifting” solenoid technology. The MAC “lifting” configuration is unique, however, in that the valve maintains a balanced design – a signature feature of a MAC valve – shifting forces are consistently high and response times are repeatable regardless of inlet pressure fluctuations. 2-way and 3-way configurations of the BV09 cartridge are available.

Function	Flow [max]	Manifold mounting	Series
2/2, 3/2 N.C., Universal	Up to 0.07 Cv	Cartridge	BV209A, BV309A

## OPERATIONAL BENEFITS

- Short stroke with high shifting forces
- Balanced poppet, immune to pressure fluctuations
- Precise repeatability
- Solenoid isolated from contaminated air
- Very few parts
- Extremely long life
- Unique mounting - no fasteners or screws required



BV309

3-Way, Universal, Cartridge Style  
- 0.07Cv

## 2&3-Way BV209A 9mm BULLET VALVE

BV209A - C X 1 - 00 - X XX X - X XX

1
2
3
4
5
6

### 1 - Spool Type

A 2-Way      C 3-Way N.C.      D 3-Way Universal

### 2 - Solenoid

B Round

### 3 - Voltage

#### 2-Way

GC 24VDC (2.5W)      GE 24VDC (4.0W)  
GH 12VDC (2.5W)      GK 12VDC (4.0W)

#### 3-Way

GA 24VDC (1.0W)      GB 24VDC (1.8W)  
GC 24VDC (2.5W)      GD 24VDC (3.0W)  
GE 24VDC (4.0W)      GF 12VDC (1.0W)  
GG 12VDC (1.8W)      GH 12VDC (2.5W)  
GJ 12VDC (3.0W)      GK 12VDC (4.0W)

### 4 - Lead Length Options

O No Leads      A 18"      B 24"      C 36"  
D 48"      E 72"      F 96"      H 144"

### 5 - Solenoid Can (Round)

C For Top Cover Option and Can w/ Outer Threads

### 6 - Solenoid Cover

JST	Pico	Flying Leads	
TA		BA	No ground wire
TC	PC	BC	Blocking & suppr. diode & LED (no ground)
TE	PE	BE	Blocking & suppr. diode (no ground)
TG	PG	BG	LED (no ground)
TJ	PJ	BJ	MOV (no ground)
TL	PL	BL	LED & MOV (no ground)
	PN		Transfer Board

Note: Pico covers PC-PL have a 3rd pin which is an isolation pin



BV309

3-Way, Manifold Mount, POP with  
BV309 Pilot - 0.25Cv



BV309

4-Way, Manifold Mount, BV309  
Pilot Operated. Paintball Industry

### Modifications

MOD L001 Low Leak Mod for Diaphragm Valve (09 & 10 only)

### How To Order Circuit Bar

Port size	Spacing	Side Cylinder Port	
#10-32 UNF	11mm	*CCMV09A-00AAA-XX	**CCMV09A-00ABA-XX
M5	11mm	*CCMV09A-00AAB-XX	**CCMV09A-00ABB-XX
M7	11mm	*CCMV09A-00AAC-XX	**CCMV09A-00ABC-XX

\* - 2-Way

\*\* - 3-Way

XX = Number of stations

Note: for valves mounted to bar at factory, add -9 to model number.

