

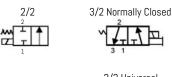
BV14 - 14mm BULLET VALVE

The BV14 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 BV14 cartridge are available.

Function	Flow [max]	Manifold mounting	Series
2/2, 3/2 N.C., Universal	Up to 0.24Cv	Cartridge	BV214, BV314

OPERATIONAL BENEFITS

- 2-Way (BV214) & 3-Way (BV314) configurations available
- Very few parts
- Long life lifting solenoid
- One piece poppet / armature
- Balanced Design
- Solenoid isolated from contaminated air
- Unique mounting







3-Way, Universal Cartridge Style - 0.24Cv

2-Way 14mm Bullet Valve

1 - Spool Type

- A 2-Way (Standard) B 2-Way (Axial Flow)
- 2 Solenoid
- B Round

3 - Voltage

2-Way

EG 24 VDC (4.0w) EH 24 VDC (2.5w) EJ 12 VDC (4.0w) EK 12 VDC (2.5w)

4 - Lead Length Options

U	No Leads	Α	18"	В	24"	C	36"
D	48"	Ε	72"	F	96"	Н	144"

5 - Solenoid Can (round)

C For Top Cover Option and Can with 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
		∱GA	MAC JAC Connector

Note: Pico covers PC-PL have a 3rd Pin which

† Requires special spacing - consult MVP

Modifications

MOD LOO1 Low Leak Mod for Diaphragm Valve (09 & 10 only)



2-Way, Cartridge Style - 0.08Cv



2-Way, Normally Closed, Plastic Cartridge Style - 0.24Cv

How To Order Circuit Bar

Standard 2-	Way					
Port Size	Spacing	Cylinder Port				
М7	17mm	*CCMV14A-00AAA-XX	**CCMV14A-00BAA-XX			
1/8"	17mm	*CCMV14A-00AAB-XX	**CCMV14A-00BAB-XX			
5/32"***	17mm	*CCMV14A-00AAC-XX	**CCMV14A-00BAC-XX			
Axial Flow 2	-Way					
M7 17mm			**CCMV14A-00BDA-XX			
1/8"	17mm		**CCMV14A-00BDB-XX			
* - Side Cylin	der Port	** - Bottom Cylinder Port				

XX = Number of stations

Note: For valves mounted to bar at factory, add -9 to model number. Common inlet & exhaust are 1/4" NPTF. For BSPPL or BSPTR threads consult MVP



2-Way, Normally Closed or Normally Open, Plastic Cartridge Body - 0.4Cv

BV314A - CX1 - 00 - X XX X - X XX T T T T T 1 2 3 4 5 6

1 - Spool Type										
С 3	3-Way Normall	y Clo	sed	D	3-/	Way Univ	/ersal			
2 - Sc	olenoid									
В	Round									
3 - Va	oltage									
НА	24VDC (1.0W	/)		ΗВ	24	4VDC (1.	(W8.			
HC 24VDC (2.5W)			HD 24VDC (3.0W)							
HE 24VDC (4.0W)				HF	12	2VDC (1.	(W0			
HG 12VDC (1.8W)			НН	1	2VDC (2	.5W)				
HJ	12VDC (3.0W	/)		НΚ	12	2VDC (4.	(W0.			
4 - Lead Length Options										
0	No Leads	Α	18"		В	24"		С	36"	
D	48"	Ε	72"		F	96"		Н	144"	

5 - Solenoid Can (round)

C For Top Cover Option and Can w/ Outer Threads

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Е	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					
			∱GA	MAC JAC Connector					

Note: Pico covers PC-PL have a 3rd Pin which † Requires special spacing - consult MVP



3-Way, Conveyer Ind. - 0.24Cv



3-Way, Manifold Mount, Non Plug-In - 0.24Cv

Modifications

MOD LOO1 Low Leak Mod for Diaphragm Valve (09 & 10 only)

How To Order Circuit Bar

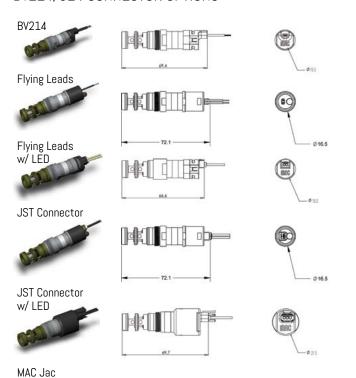
Standard 2-Way

Port Size	Spacing	*Cylinder Port		
M7	17mm	*CCMV14A-00ABA-XX	**CCMV14A-00BBA-XX	
1/8"	17mm	*CCMV14A-00ABB-XX	**CCMV14A-00BBB-XX	
5/32"***	17mm	*CCMV14A-00ABC-XX	**CCMV14A-00BBC-XX	

- * Side Cylinder Port
- ** Bottom Cylinder Port
- *** Tube Receptacle
- XX = Number of stations

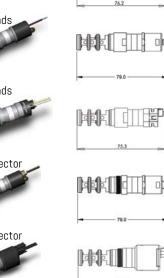
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BV214/314 CONNECTOR OPTIONS



















MAC Jac