

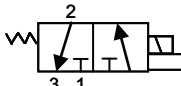
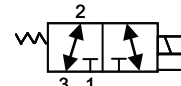
Function	Flow [max]	Manifold mounting	Series
3/2 NC, Universal	Up to 0.09 Cv	Cartridge	BV310A

OPERATIONAL BENEFITS

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

How To Order

VALVE

Type	3 Way N.C.	3 Way Universal
		
Cartridge (Standard)	BV310A-CC1-00- xxxx-xxx	BV310A-CD1-00- xxxx-xxx



SOLENOID OPERATOR

		X X X X - X X X			
Solenoid	Voltage	Lead wire length	Solenoid can (round)	Solenoid cover	
B Round	HA 24VDC (1.0W)	HF 12VDC (1.0W)	C For Top Cover Option and Can w/ Outer Threads	JST Pico Flying Leads	
	HB 24VDC (1.8W)	HG 12VDC (1.8W)		TA	BA No ground wire
	HC 24VDC (2.5W)	HH 12VDC (2.5W)		TC PC	Blocking & suppr. diode & LED(no ground)
	HD 24VDC (3.0W)	HJ 12VDC (3.0W)		TE PE	Blocking & suppr. diode (no ground)
	HE 24VDC (4.0W)	HK 12VDC (4.0W)		TG PG	LED (no ground)
				TJ PJ	MOV (no ground)
				TL PL	LED & MOV (no ground)
				PN	Transfer Board

* High wattage - high speed options - consult factory

** ERC wattage reduction options - consult factory

† Not available for flying leads cover
Only option for Pico cover

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

CIRCUIT BAR

Port size	Spacing (mm)	Side cylinder port
# 10-32 UNF	12	CCMV10A-00ABA- xx
M5	12	CCMV10A-00ABB- xx
M7	12	CCMV10A-00ABC- xx

xx = Number of stations

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

* High wattage configurations require intermittent duty cycles.

** ERC - Energy Reduction Circuitry - Reduces the effective wattage at continuous duty.

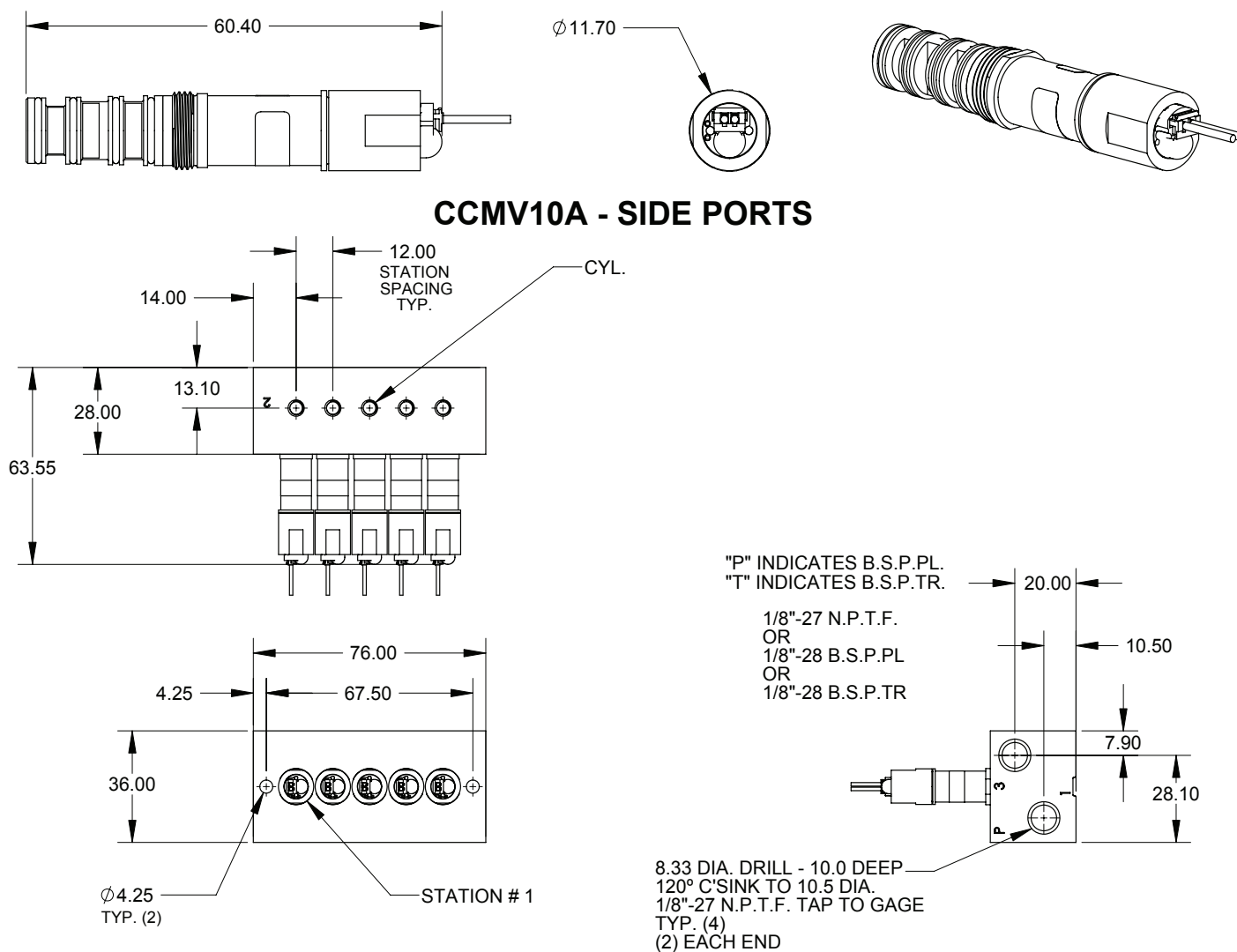
Technical Data

Fluid:	Compressed air, vacuum, inert gases
Pressure range:	Vacuum to 120 PSI
Lubrication:	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration:	40μ
Temperature range:	0°F to 120°F (-18°C to +50°C)
Flow (at 6 bar ΔP=1bar):	Up to 0.09 Cv
Voltage range:	-15% to +10% of nominal voltage

Tools: Manifold cavity step reamer: T-6963 • Insertion/removal socket: AT-1181 (Bit) AT-1185 (Bit Holder) AT-1184 (Handle)

Dimensions

Bullet Valve with "JST" Cover and Circuit Board for LED., MOV., & Diode Options BV310A (3-way) - Standard Watt



Function	Flow [max]	Manifold mounting	Series
3/2 NC, Universal	Up to 0.08 Cv	Manifold mount - Non plug-in	BV310A

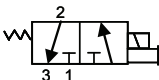
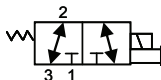
OPERATIONAL BENEFITS

1. Short stroke with high shifting forces
2. Balanced poppet, immune to pressure fluctuations
3. Precise repeatability
4. Solenoid isolated from contaminated air
5. Very few parts
6. Extremely long life



How To Order

VALVE

Type	3 Way N.C.	3 Way Universal
		
Manifold Mount - Non plug-in	BV310A-LC1-00-xxxx-xxx	BV310A-LD1-00-xxxx-xxx

SOLENOID OPERATOR

X XX X - X XX

Solenoid	Voltage	Lead wire length	Solenoid can (round)	Solenoid cover
B Round	HA 24VDC (1.0W) HB 24VDC (1.8W) HC 24VDC (2.5W) HD 24VDC (3.0W) HE 24VDC (4.0W) HF 12VDC (1.0W) HG 12VDC (1.8W) HH 12VDC (2.5W) HJ 12VDC (3.0W) HK 12VDC (4.0W)	† 0 No lead wire A 18" B 24" C 36" D 48" E 72" F 96" H 144"	B Cover For Manifold Body	JST Pico Flying Leads TA PC 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

* High wattage - high speed options - consult factory

** ERC wattage reduction options - consult factory

† Not available for flying leads cover
Only option for Pico cover

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

NON PLUG-IN CIRCUIT BAR

Port size	Spacing (mm)	Side cylinder port	Bottom cylinder port
# 10-32 UNF	12	CBMV10A-00ABA-xx	CBMV10A-00BBA-xx
M5	12	CBMV10A-00ABB-xx	CBMV10A-00BBB-xx
M7	12	CBMV10A-00ABC-xx	CBMV10A-00BBC-xx

xx = Number of stations

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

Options

BV310A-LC 1-00-xxxx-xxx

Replace with "0" for no manual operator

How to order bar configured for regulator

CBMV10A-00 A BB- xx

Replace with **D** for regulator - Side ports

Replace with **E** for regulator - Bottom ports

Note: Regulator must be ordered separately - see next page

* High wattage configurations require intermittent duty cycles

**ERC - Energy Reduction Circuitry - Reduces the effectiveness wattage at continuous duty

Technical Data

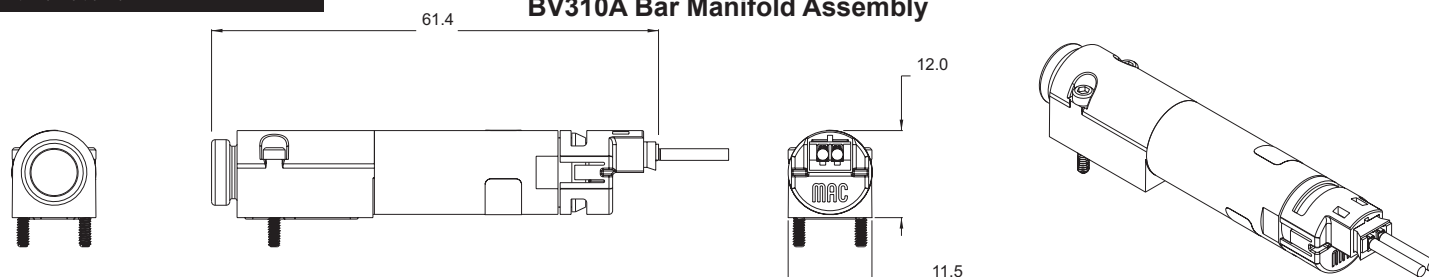
Fluid:	Compressed air, vacuum, inert gases
Pressure range:	Vacuum to 120 PSI
Lubrication:	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration:	40μ
Temperature range:	0°F to 120°F (-18°C to +50°C)
Flow (at 6 bar ΔP=1bar):	Up to 0.08 Cv
Voltage range:	-15% to +10% of nominal voltage

Spare parts:

- Pressure seal, body to base: 16985
 - Mounting screw, body to base: 35166 - 2 pcs required
 - Regulator for bar: PR44A-A0AX
 - Blank Station Cover Plate: N-BV008
- X = A** 0 to 100 PSI
B 0 to 60 PSI
C 0 to 40 PSI
D 0 to 15 PSI

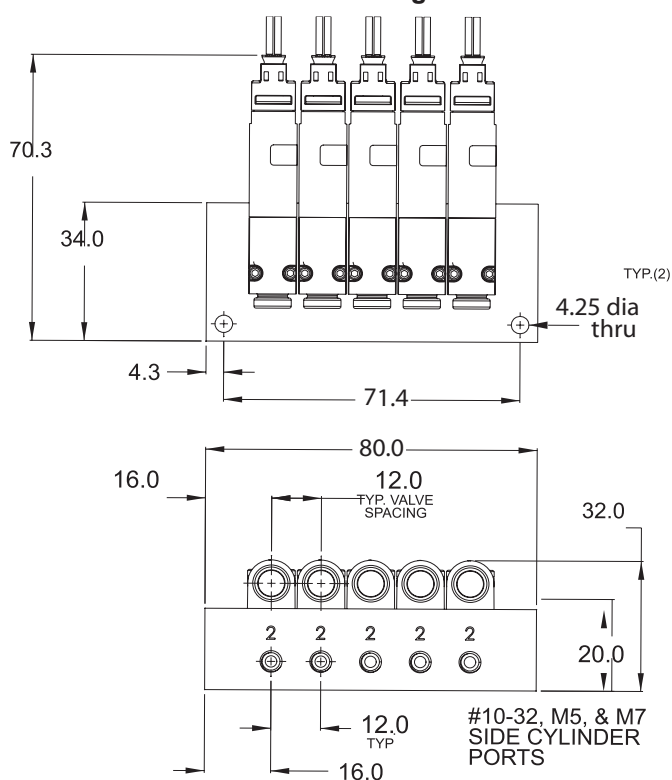
Dimensions

BV310A Bar Manifold Assembly

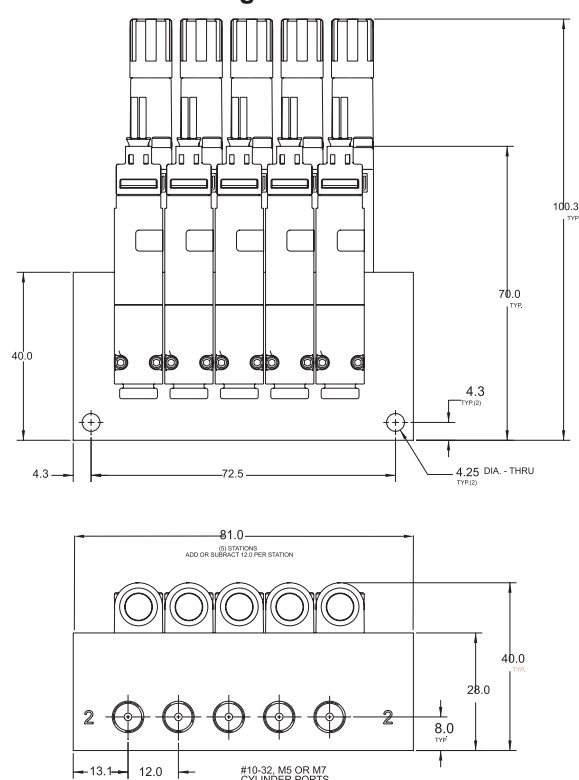


CBMV10A Circuit bar for BV310

Without regulator



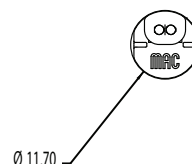
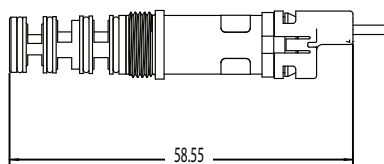
With regulator



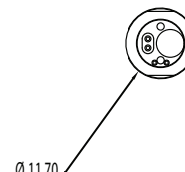
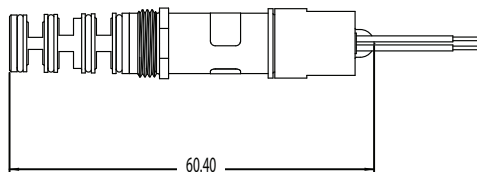
Connector Options

BV310

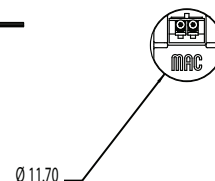
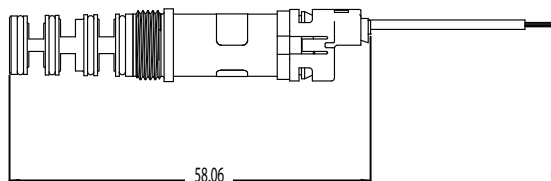
Flying Leads (BA)



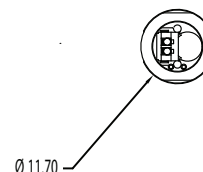
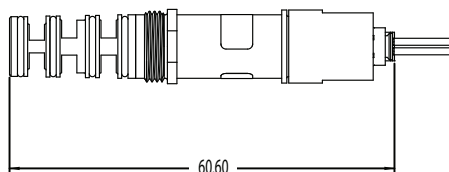
Flying Leads w/ LED (BC, BG, BL)



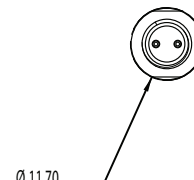
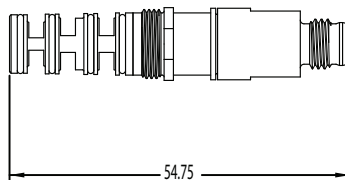
JST Connector (TA)



JST Connector w/ LED (TG, TL)



2 Pin PICO (PN)



3 Pin PICO (PC, PE, PG, PJ, PL)

