

Convenient and easy to use, Western Innovator BI Series is specifically designed to regulate and provide uninterrupted gas supply for industrial applications. Factory-set functional components are protected inside a tamper-resistant case. A green light indicates the service

bank is functioning and the reserve bank is ready for service. A red light alerts the user that the unit has changed over and one or both banks are depleted (except on fuel gas units). A simple rotation of the control lever resets the unit.

**specifications**

- Connects to remote alarms systems. (Up to 3 amps 30 VDC or 2 amps 250 VAC)
- Maximum inlet pressure:
  - BI 3000 psig
  - BI (CO<sub>2</sub> & N<sub>2</sub>O) 2000 psig
  - BI (Acetylene, LPG) 400 psig
  - BIHL (CO<sub>2</sub> & N<sub>2</sub>O) 2000 psig
  - BIHP 3000 psig
  - BIHP (CO<sub>2</sub> & N<sub>2</sub>O) 2000 psig
- Maximum flow rate:
  - BI 1200 scfh
  - BI (Acetylene) 300 scfh
  - BI (LPG) 400 scfh
  - BI (CO<sub>2</sub> & N<sub>2</sub>O) 35 scfh
  - BIHL (CO<sub>2</sub> & N<sub>2</sub>O) 500 scfh
  - BIHP 1200 scfh
- Internal adjustable line regulator:
  - BI & BIHL 30-125 psig
  - Acetylene 0-15 psig
  - LPG 0-30 psig
  - BIHP 50-200 psig
- Manifold outlet: 1/2" NPT.
- Relief valve outlet: 3/4" NPT.
- 24" flexible stainless steel pigtails with check valves.
- 1/2" Brass, silver brazed headers.
- Acetylene systems include:
  - 300 scfh flashback arrestor and piping.
  - Pigtails with individual flashback arrestors and check valves.



**HOW TO ORDER**

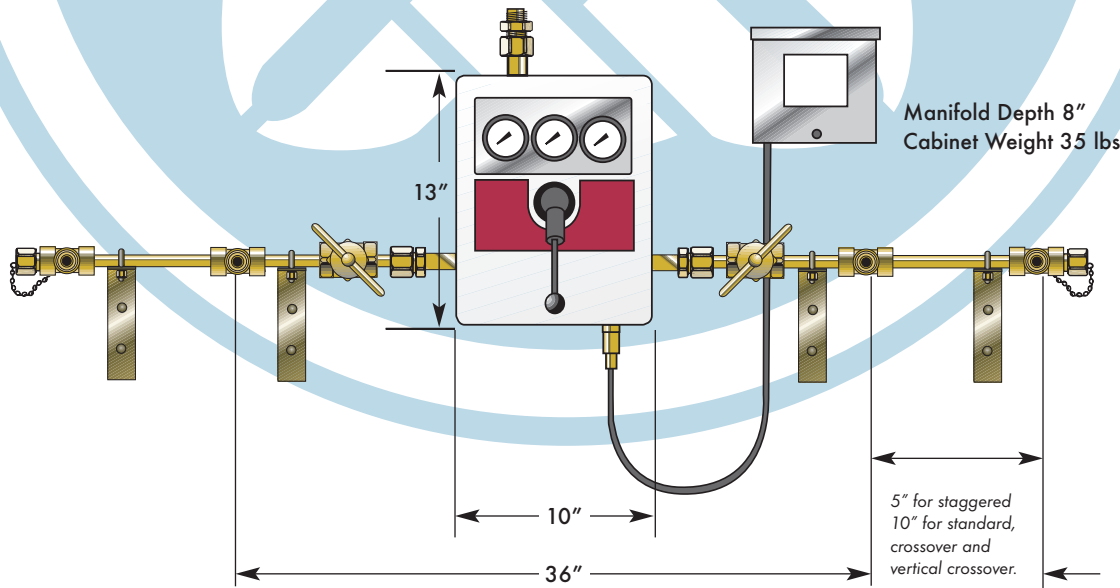
**Specify: Control Type (V) - Service (W) - Number**

**Example 1: BI-9-12VF represents BI with oxygen gas service and a vertical**  
**Example 2: BIHP-7-6 represents BIHP with nitrogen gas service with a standard**

CONTROL TYPE (V)	GAS SERVICE (W)	# OF CYL'S (X)
BI (30 to 125 psig) Acetylene (0-15 psig) LPG (0-30 psig)	(1) Acetylene (POL) CGA-510	
	(1A) Acetylene (Commercial) CGA-300	
	(2) Compressed Air CGA-346	
BIHL (30 to 125 psig) (500 SCFH heater included in HL model for CO <sub>2</sub> and N <sub>2</sub> O)	(3) Argon CGA-580	
	(4) Carbon Dioxide CGA-320	
	(5) Helium CGA-580	
BIHP (50 to 200 psig) (Higher delivery pressure - to 235 psig available upon request)	(6) Hydrogen CGA-350	
	(6A) Argon/Methane Mixtures CGA-350	
	(7) Nitrogen CGA-580	
	(7A) Industrial Air/Nitrogen OP CGA-590	
	(8) Nitrous Oxide CGA-326	
	(9) Oxygen CGA-540	
	(10) Liquefied Fuel Gases (LPG) CGA-510	

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**Example:** BI - 9 - 4 - Oxygen (9=CGA-540) Manifold for 4 Cylinders

**Design Lengths**

TOTAL NO. OF CYLINDERS	2	4	6	8	10	12	16
Standard (10" CENTERS) Overall Manifold Length	2'-0" (0.61M)	5'-5" (1.65M)	7'-1" (2.16M)	8'-9" (2.67M)	10'-5" (3.18M)	11'-9" (3.58M)	15'-3" (4.65M)
Staggered Design (5" CENTERS) Overall Manifold Length	2'-0" (0.61M)	4'-7" (1.40M)	5'-5" (1.65M)	6'-3" (1.91M)	7'-1" (2.16M)	7'-11" (2.4M)	9'-7" (2.92M)
Vertical Crossover (10" CENTERS) Overall Manifold Length	N/A	3'-9" (1.14M)	N/A	5'-5" (1.65M)	N/A	7'-1" (2.16M)	8'-9" (2.67M)
Crossover (10" CENTERS) Overall Manifold Length	N/A	3'-9" (1.14M)	N/A	5'-5" (1.65M)	N/A	7'-1" (2.16M)	8'-9" (2.67M)
Acetylene Manifold (13" CENTERS) Overall Manifold Length	2'-0" (0.61M)	5'-9" (1.75M)	8'-0" (2.44M)	10'-2" (3.10M)	12'-4" (3.76M)	14'-5" (4.40M)	16'-7" (5.06M)



of Cylinders (X) Header Configuration (Y) Mounting (Z)	
HEADER CONFIGURATION (Y)	MOUNTING (Z)
<p><b>BLANK</b> - Standard 10 inches on center 13 inches on center for Acetylene &amp; LPG</p> <p><b>S</b> - Staggered 5 inches on center 6.5 inches on center for Acetylene &amp; LPG</p> <p><b>V</b> - Vertical crossover Standard 10 inches on center 13 inches on center for Acetylene &amp; LPG</p> <p><b>C</b> - Crossover (Floor Mount Only) Standard 10 inches on Center 13 inches on center for Acetylene &amp; LPG</p> <p><b>U-Shaped</b> - Drawing Required</p> <p><b>L-Shaped</b> - Drawing Required</p>	<p><b>BLANK</b> = Wall mount</p> <p><b>F</b> = Floor mounted</p>