

# DCG Spec-Brief™

## 52 Series Maniflex High Purity Modular Gas Distribution System

SB – 131

The 52B, 52C, and 52S series Maniflex are modular gas distribution systems that may be connected to regulators, dual regulator switchovers and AutoSwitch systems. A modular gas distribution system allows the user to size the inlet capacity of a system so that cylinder changes will not be as frequent. The Maniflex system provides the user with the capability of purchasing an unlimited number of manifold stations connected to a single header. The maniflex headers themselves may be purchased as a complete system (unassembled) or as individual components

### **Specifications:**

- Max. Inlet Pressure: 3000 PSIG (210 Bar)
- Temp. Range: -40°F to 140°F
- Header: 0.625 OD x 0.188 Wall (BRASS)  
0.625 OD x 0.095 wall (STAINLESS STEEL)
- Diaphragm Valve: Brass or Stainless Steel Barstock

*DCG's Spec Brief™*

*Consult the following Spec's for related Application:*

*SB-111 405 Series High Purity Brass Line*

*Regulator*

*SB-114 425 Series Stainless Steel*

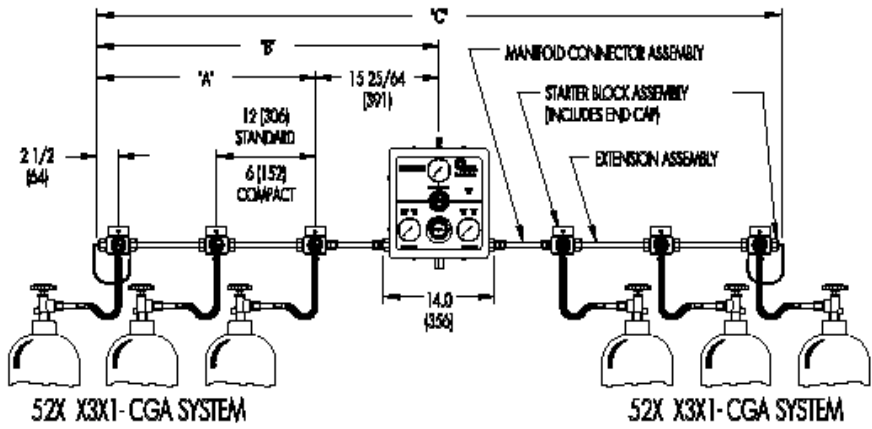
*Regulator*

*SB-132 CGA Fitting*

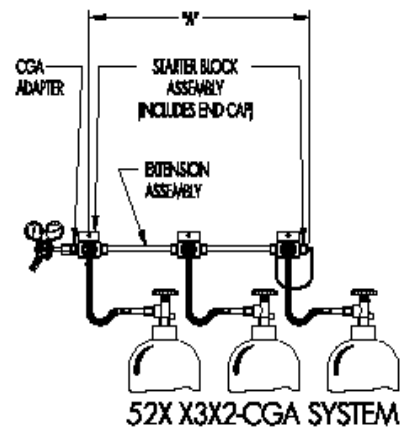


### **Advanced Features:**

- Modular design allows for flexible field installation
- Integral Diaphragm Valves provide leak-tight integrity coupled with independent shut-off capability
  - Expandable system for future growth
  - Brass, Chrome-plated Brass or Stainless Steel
  - Easy leak-tight field assembly
  - Silver-Brazed or TIG welded connectors for contamination-free installation



Switchover System



Regulator System

Cylinders per Side	1	2	3	4	5	6	7	8	9	10
"A" Standard (Single Row)	2.5"	14.5"	26.5"	38.5"	50.5"	62.5"	74.5"	86.5"	98.5"	110.5"
"B" Standard (Single Row)	17.891"	29.891"	41.891"	53.891"	65.891"	77.891"	89.891"	101.89"	113.89"	125.89"
"C" Standard (Single Row)	35.781"	59.781"	83.781"	107.78"	131.78"	155.78"	179.78"	203.78"	227.78"	251.78"
Weight Standard (Brass Single Row)	3.45 lbs	7.07 lbs	10.69 lbs	14.31 lbs	17.93 lbs	21.55 lbs	25.17 lbs	28.79 lbs	32.41 lbs	36.03 lbs
Weight Standard (Stainless Steel Row)	3.33 lbs	6.45 lbs	9.57 lbs	12.69 lbs	15.81 lbs	18.93 lbs	22.05 lbs	25.17 lbs	28.29 lbs	31.41 lbs
"A" Compact (Single Row)	2.5"	8.5"	14.5"	20.5"	26.5"	32.5"	38.5"	44.5"	50.5"	56.5"
"B" Compact (Single Row)	17.891"	23.891"	29.891"	35.891"	41.891"	47.891"	53.891"	59.891"	65.891"	71.891"
"C" Compact (Single Row)	35.781"	47.781"	59.781"	71.781"	83.781"	95.781"	107.78"	119.78"	227.78"	251.78"
Weight Compact (Brass Single Row)	3.45 lbs	6.62 lbs	9.79 lbs	12.96 lbs	16.13 lbs	19.3 lbs	22.47 lbs	25.64 lbs	28.81 lbs	31.98 lbs
Weight Compact (Stainless Steel Row)	3.33 lbs	6.27 lbs	9.21 lbs	12.15 lbs	15.09 lbs	18.03 lbs	20.97 lbs	23.91 lbs	26.85 lbs	29.79 lbs

Option	Order Number	Description
Pigtail Assemblies (3 Feet)	529-0029-CGA	Flexible 316 Stainless Steel (1/4" MPT x stainless steel CGA)*
	529-0031-CGA	Flexible 316 Stainless Steel (1/4" MPT x Brass CGA)*
Pigtail Assemblies (2 Feet)	529-0070-CGA	Flexible 316 Stainless Steel (1/4" MPT x stainless steel CGA)*
	529-0071-CGA	Flexible 316 Stainless Steel (1/4" MPT x Brass CGA)*
Pigtail (6 feet)	529-0055-CGA	Flexible 316 Stainless Steel (1/4" MPT x Brass CGA)*
	529-0056-CGA	Flexible 316 Stainless Steel (1/4" MPT x stainless steel CGA)*

\*Pigtail assembly includes Check valve at cylinder end

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