

52 Series Maniflex High Purity Modular Gas Distribution System



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.

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
- Metal to metal field-assembled joints allow for easy leak-tight field assembly
- Silver-brazed or TIG welded connectors for contamination-free installation

Specifications

Maximum Inlet Pressure: 3000 PSIG (210BAR)

Temperature Range: -40° F to 140° F

Header: 0.625 OD x 0.188 wall (Brass)

0.625 OD x 0.095 wall (Stainless)

Diaphragm valve: Brass or stainless steel barstock body

PCTFE seat

303/304 stainless steel stems

Elgiloy[®] diaphragms

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Chromatographic Reference Materials

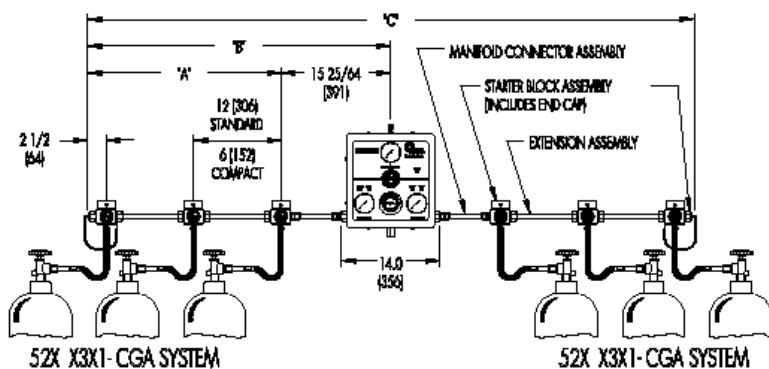


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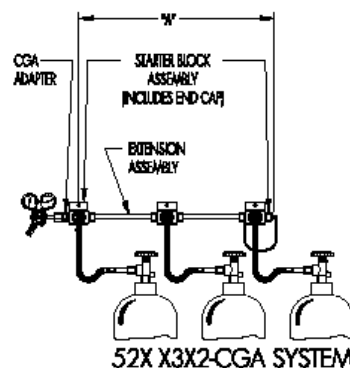
Dimensions ("A", "B", and "C" refer to the lengths specified on the diagram below)

Cylinders per Side	1	2	3	4	5	6	7	8
"A" Standard (Single Row)	2.5"	14.5"	26.5"	38.5"	50.5"	62.5"	74.5"	86.5"
"B" Standard (Single Row)	17.891"	29.891"	41.891"	53.891"	65.891"	77.891"	89.891"	101.891"
"C" Standard (Single Row)	35.781"	59.781"	83.781"	107.78"	131.78"	155.78"	179.78"	203.78"
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
Weight Standard (Steel Single 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
"A" Compact (Single Row)	2.5"	8.5"	14.5"	20.5"	26.5"	32.5"	38.5"	44.5"
"B" Compact (Single Row)	17.891"	23.891"	29.891"	35.891"	41.891"	47.891"	53.891"	59.891"
"C" Compact (Single Row)	35.781"	47.781"	59.781"	71.781"	83.781"	95.781"	107.78"	119.78"
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
Weight Compact (Steel Single 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

Cylinders per Side	9	10
"A" Standard (Single Row)	98.5"	110.5"
"B" Standard (Single Row)	113.89"	125.89"
"C" Standard (Single Row)	227.78"	251.78"
Weight Standard (Brass Single Row)	32.41 lbs	36.03 lbs
Weight Standard (Steel Single Row)	28.29 lbs	31.41 lbs
"A" Compact (Single Row)	50.5"	56.5"
"B" Compact (Single Row)	65.891"	71.891"
"C" Compact (Single Row)	131.78"	143.78"
Weight Compact (Brass Single Row)	28.81 lbs	31.98 lbs
Weight Compact (Steel Single Row)	26.85 lbs	29.79 lbs



Switchover System



Regulator System





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Ordering Information

52X-	A	B	C	D	-CON
Series 52B Brass	Orientation	Stations	Pigtail Styles	Outlet Connection	Pigtail Connection
52C Chrome- Plated Brass	1: Standard single row (right or left) (one cylinder/station) 2: Standard double row (right or left) (two cylinders/stations) 3: Standard single duplex (right and left) one cylinder/station	0: 10 stations 1: 1 station 2: 2 stations 3: 3 stations 4: 4 stations 5: 5 stations 6: 6 stations 7: 7 stations 8: 8 stations 9: 9 stations	0: None 2: 24" Flexible 316 Stainless Steel with Check Valve 3: 36" Flexible 316 Stainless Steel with Check Valve 6: 72" Flexible 316 Stainless Steel with Check Valve	1: 1/4" FPT Connection 2: Cylinder Connection Adapter	CGA DIN 477 BS 341 and others available
52S Stainless Steel	4: Compact single row (right or left) (one cylinder/station) 5: Compact double row (right or left) (two cylinders/stations) 6: Compact single duplex (right and left) (one cylinder/station)				

Maniflex Accessories

Option	Order No.	Description
Pigtail Assemblies (3 feet)	529-0029-CGA 529-0031-CGA	Flexible 316 stainless steel (1/4" MPT x stainless steel CGA)* Flexible 316 stainless steel (1/4" MPT x brass CGA)*
Pigtail Assemblies (2 feet)	529-0070-CGA 529-0071-CGA	Flexible 316 stainless steel (1/4" MPT x stainless steel CGA)* Flexible 316 stainless steel (1/4" MPT x brass CGA)*
Pigtail (6 feet)	529-0055-CGA 529-0056-CGA	Flexible 316 stainless steel (1/4" MPT x brass CGA)* Flexible 316 stainless steel (1/4" MPT x stainless steel CGA)*

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