### **CRADLE PACK MANIFOLDS FOR 6, 12 & 16 CYLINDER**

## **SCMB Series**

Superior's SCMB series is the ideal, low cost replacement header to fit most commercially available cylinder cradles. The body is machined from 1 1/2" yellow brass bar stock. Includes proper CGA valves or RPV valves\* and 24" flexible, stainless steel pigtails PTFE lined for standard gas service or ETFE lined for high purity and lighter than air gases (hydrogen and helium) or 3,600 PSI Post Sintered PTFE. Also available with armor guarded flex pigtails for heavy duty service. The modular design and removable flexible pigtails allow for quick, easy repairs.



Available to order			
6 pack, stainless steel PTFE lined pigtails 6 pack, stainless steel ETFE lined pigtails 6 pack, single loop copper pigtails 6 pack, stainless steel 3,600 PSIG PTFE Lined Pigtail	GMA-SCMB-XXX-06 GMA-SCMB-XXXTZ-06 GMA-SCMB-XXX-06-RGD GMA-SCMB-XXX-36-06		
12 pack, stainless steel PTFE lined pigtails 12 pack, stainless steel ETFE lined pigtails 12 pack, single loop copper pigtails 12 pack, stainless steel 3,600 PSIG PTFE Lined Pigtail	GMA-SCMB-XXX-12 GMA-SCMB-XXXTZ-12 GMA-SCMB-XXX-12-RGD GMA-SCMB-XXX-36-12		
16 pack, stainless steel PTFE lined pigtails 16 pack, stainless steel ETFE lined pigtails 16 pack, single loop copper pigtails 16 pack, stainless steel 3,600 PSIG PTFE Lined Pigtail	GMA-SCMB-XXX-16 GMA-SCMB-XXXTZ-16 GMA-SCMB-XXX-16-RGD GMA-SCMB-XXX-36-16		

\* For **ArmorGuard** Option add "**AG**" to part number Example: GMA-SCMB-XXXAG-06-PTFE GMA-SCMB-XXXTZAG-06-ETFE GMA-SCMB-XXX36AG-06-PTFE 3,600 PSI

\* For **Residual Pressure Valve** add "**RPV**" to part number Example: GMA-SCMB-XXXRPV-06 Please Note 3,600 PSIG PTFE is Post Sintered

Other CGA's available upon request
 Optional Tee with gauge available between valve and block

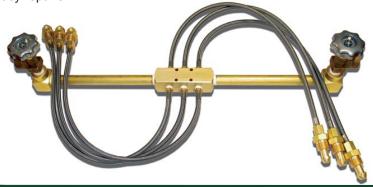
Available for the following gases, replace **XXX** in part number with **CGA#** 

Carbon Dioxide	CGA 320
Nitrous Oxide	<b>CGA 326</b>
Air	<b>CGA 346</b>
Hydrogen	CGA 350
Propane/Acetylene	CGA 510
Oxygen	CGA 540
Inert Gases	CGA 580

#### **CRADLE PACK MANIFOLDS FOR 6, 12 & 16 CYLINDER**

## **CPR Series**

Superior's CPR series is a cradle pack replacement header to fit most common size cylinder cradles. The body is machined from 1 1/2" yellow brass bar stock. Includes proper CGA valves or RPV valves, 24" flexible, stainless steel pigtails PTFE lined for standard gas service, ETFE lined for high purity and lighter than air gases (hydrogen and helium) or 3,600 PSIG Post Sintered PTFE. Also available with armor guarded flexible pigtails for heavy duty service. The modular design and removable flexible pigtails allow for quick, easy repairs.



	Available to order				
6 6 6	pack, stainless steel PTFE lined pigtails pack, stainless steel ETFE lined pigtails pack, stainless steel 3,600 PSIG PTFE lined pigtails pack, single loop copper pigtails	GMA-CPR-XXX-06 GMA-CPR-XXXTZ-06 GMA-CPR-XXX-36-06 GMA-CPR-XXX-06-RGD			
12	pack, stainless steel PTFE lined pigtails	GMA-CPR-XXX-12			
12	pack, stainless steel ETFE lined pigtails	GMA-CPR-XXXTZ-12			
12	pack, stainless steel 3,600 PSIG PTFE lined pigtails	GMA-CPR-XXX-36-12			
12	pack, single loop copper pigtails	GMA-CPR-XXX-12-RGD			
16	pack, stainless steel PTFE lined pigtails	GMA-CPR-XXX-16			
16	pack, stainless steel ETFE lined pigtails	GMA-CPR-XXXTZ-16			
16	pack, stainless steel 3,600 PSIG PTFE lined pigtails	GMA-CPR-XXX-36-16			
16	pack, single loop copper pigtails	GMA-CPR-XXX-16-RGD			

\* For **ArmorGuard** Option add "**AG**" to part number Example: GMA-CPR-XXXAG-06-PTFE GMA-CPR-XXXTZAG-06-ETFE

GMA-CPR-XXX36AG-06-PTFE 3,600 PSI

\* For **Residual Pressure Valve** add "**RPV**" to part number Example: GMA-CPR-XXXRPV-06

\*Please Note 3,600 PSIG PTFE is Post Sintered

• Other CGA's available upon request

Available for the following gases, replace **XXX** in part number with **CGA** 

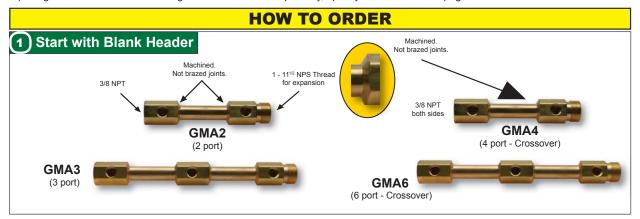
CGA 320
<b>CGA 326</b>
<b>CGA 346</b>
CGA 350
CGA 510
CGA 540
CGA 580

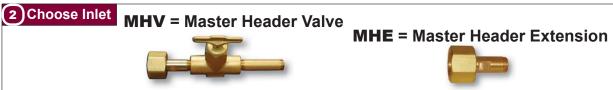
#### **HEADERS & OPEN STYLE MANIFOLDS**

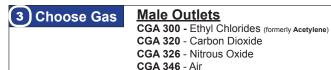
## MODULAR NON-BRAZED SIMPLEX HEADERS FOR INDUSTRIAL, SPECIALTY GAS & HOSPITAL MANIFOLD SYSTEMS

Modular simplex manifold headers are a single unit design manufactured from free cutting brass bar stock. This design eliminates all brazed joints. Each unit is tested to full operating pressure and cleaned for oxygen service per CGA-G4.1. Manifold headers can be shipped complete with master valve, individual check valve inlets, flexible stainless steel or rigid copper pigtails, mounting hardware, and CGA inlet connections. Systems available include simplex, MHV series with flexible stainless pigtails, CMHV with rigid copper pigtails, MHE and CMHE series header extensions. Headers are ordered in 2 or 3 cylinder configurations to arrive at the desired number of cylinders. Custom configurations are also available for U-shaped and L-shaped to meet your space requirements. Headers are available with an optional manifold regulator. To order, add an R to the type of manifold ex. GMA-MHVR-540-02.

**Configuration**: Systems are available in three different basic configurations, for 2 or 3 cylinder sections. Five inch center to center spacing is standard. To order 90 degree elbow sections separately, specify GMF-3710. See page 70.







CGA 350 - Hydrogen CGA 540 - Oxygen CGA 555 - Propane

CGA 577 - Oxygen

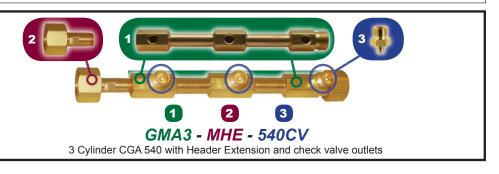
Female Outlets
CGA 500 - Medical Mixtures
CGA 510 - Acetylene
CGA 580 - Inert Gases

CGA 580 - Inert Gases CGA 590 - Sulfur HexaFlouride (formerly Industrial Air)

## \* Pigtails sold separately

For check valve outlets add "CV" after CGA number

CONFIGURED MANIFOLD EXAMPLE



#### **HEADERS & OPEN STYLE MANIFOLDS**

#### **GAS MANIFOLD ASSEMBLIES**

#### ORDERING INFORMATION:

Each manifold part number consists of four sections. The first section denotes a Gas Manifold Assembly (GMA). The second section denotes the type of manifold and its configuration (only for duplex manifolds) otherwise do not use configuration number. The third section denotes the CGA number or type of gas, and the last section denotes the number of outlets or cylinders. The example below is for a twelve cylinder Oxygen duplex manifold in a standard configuration with outlet adaptor with check valves instead of header valves.

GMA -	DM	-	540CV	-	12
Gas Manifold Assembly	Type of Manifold & Configuration		CGA Number		Number of Cylinder Outlets

Type of Manifold	Type of Configuration	Type of Gases	
SD-Simple Duplex(Manual) SM-Simplex(Manual) DM-Duplex(Manual) HEL-Header Extension, left side HER-Header Extension, right side	Standard Configuration 2-Crossover Configuration 3-"L" Shaped Configuration 4-"U" Shaped Configuration 5-Staggered Configuration	300-Commercial Acetylene 320-Carbon Dioxide 326-Nitrous Oxide 346-Air 350-Hydrogen	510-Acetylene & Propane 540-Oxygen 580-Nitrogen, Helium & Argon 590-Industrial Air

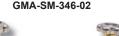
#### SIMPLE DUPLEX MANIFOLDS

The simple duplex manifold is an economical system with a two cylinder capacity, one per side. The unit is furnished with two header valves and two pigtails with check valves or two outlet adaptors with check valves and two regular pigtails, 1/2" NPT tee, a union and a mounting bracket. Manifolds for Acetylene gas will include pigtails with dry type flashback arrestors.



#### SIMPLEX MANIFOLDS WITH MANUAL CONTROLS

The simplex manifold has a master shut off valve with a single row of cylinder modules. Each module consists of 1/2" piping, 1/2" tees, header valves and pigtails with check valves or outlet adaptors with check valve and regular pigtails, a union, a CGA end plug and mounting brackets. The last module will have a plug and chain connected to an adaptor that allows for future expansion. Proper CGA fittings will be furnished for the specified gas. Manifolds for Acetylene gas will include a Hydraulic Flash Arrestor and pigtails with dry type arrestors.



#### **MANIFOLD HEADER EXTENSION ASSEMBLIES**

Header extensions are shipped ready for addition to existing manifolds. Unit includes CGA inlet, CGA end plug, 1/2" piping, 1/2" tees, header valves and pigtails with check valves or outlet adaptors with check valves and flexible pigtails and a mounting bracket. The last module will have a plug and chain connected to an adaptor that allows for future expansion. Specify right side extension (HER) or left side extension (HEL).



#### **HEADERS & OPEN STYLE MANIFOLDS**

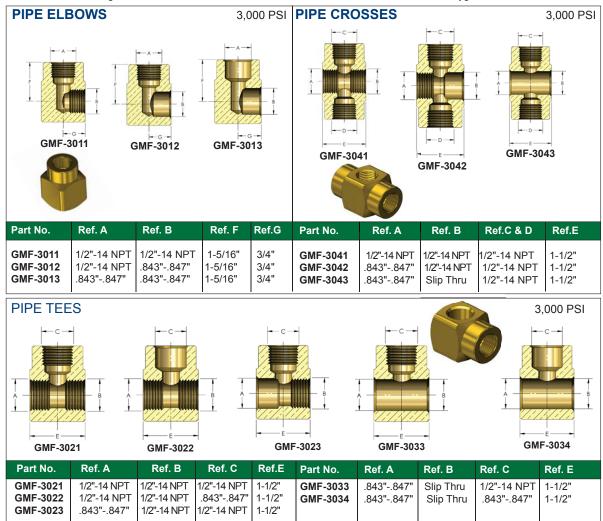
#### **DUPLEX MANIFOLDS WITH MANUAL CONTROLS**

The duplex manifold has two master shut off valves allowing replacement of the exhausted bank of cylinders while the full bank of cylinders is in operation. The center section accommodates a single regulator. The manifold is shipped with 1/2" piping, 1/2" tees, header valves and pigtails with check valves or adaptor outlets with check valve and regular pigtails, a union, a CGA end plug and mounting brackets are included with each module. Modules are furnished with a plug and chain on the last module that allows for future expansion. Proper CGA fittings will be furnished for specified gas. Manifolds for Acetylene gas will include a Hydraulic Flash Arrestor and pigtails with dry type arrestors.



#### **BRASS MANIFOLD PIPE AND PIPE FITTINGS**

Fittings Are Machined From CDA-360 Brass, Stress Relieved and Cleaned For Oxygen Service



# Diversco

#### **MANIFOLD FITTINGS & PIPING**

3,000 PSI

#### PIPE NIPPLES, THREADED ENDS

- -Cleaned For Oxygen Service
- -Suitable For Acetylene -Machined From CDA 360 Brass



	GMF-3214		
Part No.	Thread Size	Length	
GMF-3211 GMF-3212 GMF-3213 GMF-3214 GMF-3215 GMF-3216	1/2"-14 NPT 1/2"-14 NPT 1/2"-14 NPT 1/2"-14 NPT 1/2"-14 NPT 1/2"-14 NPT	1-1/2" 2" 4" 6" 9-3/4" 12-3/4"	

#### **PIPE LENGTHS, PLAIN ENDS**

- -Cleaned For Oxygen Service
- -Suitable For Acetylene -Made From CDA 360 Brass
- -Special Lengths Available

Upon Request

GMF-3224

Part No.	Pipe Size	Length
GMF-3222	1/2" Nom.	2"
GMF-3223	1/2" Nom.	4"
GMF-3224	1/2" Nom.	6"
<b>GMF-3225</b>	1/2" Nom.	9-3/4"
GMF-3226	1/2" Nom.	12-3/4"

#### **UNION 90º**



#### **UNION PLUG**

Part No.	Thread
GMA-RH-PLUG GMA-LH-PLUG	1"-11-1/2 NPS RH-INT. 1"-11-1/2 NPS LH-INT.



#### **PIPE LENGTHS, PLAIN ENDS**

<u>-NOT CLEANED</u> For Oxygen Service -Suitable For Acetylene -Made From CDA 360 Brass

Part No.	Pipe Size	Length
	1/2" Nom. 1/2" Nom.	6 FT. 12 FT.

NOTE: GMF-3237 Must ship via Common Carrier



#### **UNION NUTS**

Part No.	Thread
GMF-3311 GMF-3312	1"-11-1/2 NPS RH-INT. 1"-11-1/2 NPS LH-INT.



GMF-3311

#### **UNION NIPPLES**

GMF-3326



Part No.	Thread	Length
GMF-3321	3/8"-18 NPT	2.40"
GMF-3326	1/2"-14 NPT	2.94"



#### **UNION BUSHINGS**



GMF-3332

UNION BUSHINGS WITH FILTER

3,000 PSI

UNION BUSHINGS WITHOUT FILTER

3,000 PSI

Part N	о.	Thread	Pipe Th	read	Length	Part No.	Thread	Pipe Thread	Length
GMF-33 GMF-33 GMF-33	334 1' 337 1'	"-11-1/2 NPS RH "-11-1/2 NPS RH "-11-1/2 NPS LH "-11-1/2 NPS LH	3/8"-18   1/2"-14   3/8"-18 1/2"-14	NPT NPT	3.125" 2.187" 3.125" 2.187"		1"-11-1/2 NPS RH 1"-11-1/2 NPS RH 1"-11-1/2 NPS LH 1"-11-1/2 NPS LH	3/8"-18 NPT 1/2"-14 NPT 3/8"-18 NPT 1/2"-14 NPT	3.125" 2.187" 3.125" 2.187"
GMF-33		Replacement Filter Replacement Snap-F	Ring				-		