



Superior Products, LLC

Medical Gas Fittings, Hose Assemblies, and Accessories



www.superiorprod.com



Compressed Gas Association

Superior Products, LLC is a leader in gas management products. We have been manufacturing and distributing compressed gas fittings and assemblies for over 50 years. All our products are precision machined and assembled to the standards of the Compressed Gas Association by experienced personnel with state-of-the-art equipment.

This Hospital Products Catalog presents a comprehensive selection of medical gas fittings, hose assemblies and equipment; providing a wide range of choices and customization options.

ANNOUNCING THE AVAILABILITY OF ONLINE SERVICES to serve you better!

You may now contact us through our website: www.superiorprod.com

Among the online services available:

- Our new online Custom Hose Configurator, a Superior innovation and an industry first, enables you to “design” a hose assembly to your specifications in only two easy selection steps. A third step displays a picture of your hose assembly along with its part number and price.
- You may review this entire catalog

Let Superior be **“Your Medical Gas Fittings Expert”** providing **Engineering, Manufacturing and Logistics** solutions for your medical gas fittings, assemblies and equipment needs.



Compressed Gas Fittings & Equipment - Catalog #17B

Includes the industry's most complete line of CGA nuts, nipples, adaptors, and assemblies. Also features pigtails, check valves, manifold fittings, cryogenic hoses and fittings, flash arrestors, quick connectors, hose repair kits, and valves.



To view catalogs online go to www.superiorprod.com



www.superiorprod.com

TABLE OF CONTENTS

ACCESSORIES

Leak Detector	12
PTFE Tape	12
Pipe Thread Fittings.....	8

CYLINDERS & CYLINDER FITTINGS (REGULATOR)

CGA Inlet Nuts & Nipples	26,27,28
Cylinders.....	7
Outlet Adaptors	26,27,28
Plug & Chain Assemblies	26,27,28
Washers.....	26,27,28
Tee Couplers	9

CHECK VALVES

Body Adaptors	12
Low Pressure NPT Adaptors	12
Low Pressure NPT Hex Nipple	12
High Pressure Inline Check Valves..	12

DEMAND VALVES

DISS Demand Valve	11
Demand valve extension	11
Demand Duplex Adaptors.....	24

DISS FITTINGS

Adaptors 90° & Straight	11
Body Adaptors	2,3,4,5
Nuts & Nipples.....	2,3,4,5
O-Rings.....	2,3,4,5
Orifice Adaptors	11
Plug & Chain Assemblies	5,26,27,28
Retaining Rings	2,3,4,5

DUPLEX OR COUPLERS

Double OR Couplers	23
Triple Outlet Rail Block	10

FLOWMETERS

Oxygen	25
Air	25

HOSES

Bulk Hose	15
Special Hose Assemblies	14,15

HOSE FITTINGS & ACCESSORIES

Barbed & NPT Hose Fittings.....	29
Crimping Tool.....	29
Ferrules	29
Repair Kit.....	29

PIGTAILS

Manifold Replacement Pigtails	9
Rigid Copper.....	9
Stainless Steel Flexible	9

NPT PIPE FITTINGS

Adaptors	8
Crosses	8
Elbows	8
Manifold Block	8
Pipe Extender	8
Pipe Nipples	8
Plugs.....	8
Tees	8

QUICK CONNECTORS

Chemetron	16,17
DISS (Quicknut).....	22
Ohmeda	18,19
Puritan	20
Oxequip	21

RELIEF VALVES

Medical Relief Valves.....	6
----------------------------	---

VALVES

Ball Seat Shut Off	10
Demand	11,24
Y-Valves	10

Y-CONNECTORS

DISS 1240	10
NPT.....	10
Valves	10

YOKES

Pin Index Yokes for all Gases	13
Yoke Replacement Parts	13

SPECIAL MIXTURES		DISS-1020-A	200 PSIG	
Fitting Type	Dimension/Material	Marked	Part Number	
	Nut-Female	7/8" hex, brass chrome plated	"Special"	MN-102
	Nipple w/o-ring Replacement o-ring	1/4" I.D. barb, brass chrome plated EPDM		MNP-407W MR-102
	Body Adaptor	1/4" MNPT, brass chrome plated	"Special"	MA-762

NITROUS OXIDE		DISS-1040-A	200 PSIG	
Fitting Type	Dimension/Material	Marked	Part Number	
	Nut-Female	7/8" hex, brass/chrome	"N ₂ O"	MN-104
	Nut Hand Tight	Brass chrome plated, blue plastic grip	"N ₂ O"	MHN-104P
	Nipple w/o-ring	3/16" I.D. barb, brass/chrome		MNP-305W
	Nipple	1/4" I.D. barb, brass/chrome		MNP-307
	Nipple w/o-ring	1/4" I.D. barb, brass/chrome		MNP-307W
	Nipple	1/8" MNPT w/wrench flat, brass/chrome		MNP-309
	Nipple w/o-ring	1/8" MNPT w/wrench flat, brass/chrome		MNP-309W
	Nipple	1/4" MNPT w/wrench flat, brass/chrome		MNP-311
	Nipple w/o-ring	1/4" MNPT w/wrench flat, brass/chrome		MNP-311W
	Replacement o-ring	EPDM		MR-104
	Body Adaptor	1/8" MNPT, brass/chrome	"N ₂ O"	MA-620
	Body Adaptor	1/4" MNPT, brass/chrome	"N ₂ O"	MA-622
	Body Adaptor	1/4" I.D. barb, brass/chrome	"N ₂ O"	MA-624

HELIUM, HELIUM/O ₂ MIXTURE HELIUM OVER 80%		DISS-1060-A	200 PSIG	
Fitting Type	Dimension/Material	Marked	Part Number	
	Nut-Female	7/8" hex, brass chrome plated	"HE, HE/O ₂ "	MN-106
	Nipple	1/4" I.D. barb, brass chrome plated		MNP-317
	Nipple w/o-ring	1/4" I.D. barb, brass chrome plated		MNP-317W
	Nipple w/o-ring	1/4" MNPT w/wrench flat, brass/chrome		MNP-318W
	Replacement o-ring	EPDM		MR-106
	Body Adaptor	1/4" MNPT, brass chrome plated	"HE, HE/O ₂ "	MA-722

CO ₂ , CO ₂ /O ₂ MIXTURE		DISS-1080-A	200 PSIG	
Fitting Type	Dimension/Material	Marked	Part Number	
	Nut-Female	7/8" hex, brass chrome plated	"CO ₂ , CO ₂ /O ₂ "	MN-108
	Nipple	1/4" MNPT w/wrench flat, brass/chrome		MNP-321
	Nipple w/o-ring	1/4" I.D. barb, brass chrome plated		MNP-327W
	Nipple w/o-ring	1/8" MNPT w/wrench flat, brass/chrome		MNP-329W
	Replacement o-ring	EPDM		MR-108
	Body Adaptor	1/4" MNPT, brass chrome plated	"CO ₂ , CO ₂ /O ₂ "	MA-732

NITROGEN		DISS-1120-A	200 PSIG	
Fitting Type	Dimension/Material	Marked	Part Number	
	Nut-Female	7/8" hex, brass/chrome	"N2"	MN-112
	Nut Hand Tight	Brass chrome plated, black plastic grip	"N2"	MHN-112P
	Nipple	1/4" I.D. barb, brass/chrome		MNP-347
	Nipple w/o-ring	1/4" I.D. barb, brass/chrome		MNP-347W
	Nipple	1/8" MNPT w/wrench flat, brass/chrome		MNP-349
	Nipple w/o-ring	1/8" MNPT w/wrench flat, brass/chrome		MNP-349W
	Nipple	1/4" MNPT w/wrench flat, brass/chrome		MNP-351
	Nipple w/o-ring	1/4" MNPT w/wrench flat, brass/chrome		MNP-351W
	Replacement o-ring	EPDM		MR-112
	Body Adaptor	1/4" MNPT, brass chrome plated	"N2"	MA-662
	Body Adaptor	1/4" I.D. barb, brass chrome plated	"N2"	MA-664

MEDICAL AIR		DISS-1160-A	200 PSIG	
Fitting Type	Dimension/Material	Marked	Part Number	
	Nut-Female	7/8" hex, brass/chrome	"AIR"	MN-116
	Nut Hand Tight	Brass chrome plated, yellow plastic grip	"AIR"	MHN-116P
	Nut Hand Tight	White w/black dot plastic grip Canadian	"AIR"	MHN-116PC
	Nipple	1/4" I.D. barb, brass/chrome		MNP-367
	Nipple w/o-ring	1/4" I.D. barb, brass/chrome		MNP-367W
	Nipple	1/8" MNPT w/wrench flat, brass/chrome		MNP-369
	Nipple w/o-ring	1/8" MNPT w/wrench flat, brass/chrome		MNP-369W
	Nipple	1/4" MNPT w/wrench flat, brass/chrome		MNP-371
	Nipple w/o-ring	1/4" MNPT w/wrench flat, brass/chrome		MNP-371W
	Replacement o-ring	EPDM		MR-116
	Body Adaptor	1/8" MNPT, brass/chrome	"AIR"	MA-680
	Body Adaptor	1/4" MNPT, brass/chrome	"AIR"	MA-682
	Body Adaptor	1/4" I.D. barb, brass/chrome	"AIR"	MA-684

O2/HELIUM MIXTURES		DISS-1180-A	200 PSIG	
HELIUM NOT OVER 80%				
Fitting Type	Dimension/Material	Marked	Part Number	
	Nut-Female	7/8" hex, brass chrome plated	"O2-HE"	MN-118
	Nipple w/o-ring	1/4" I.D. barb, brass chrome plated		MNP-377W
	Replacement o-ring	EPDM		MR-118
	Body Adaptor	1/4" MNPT, brass chrome plated	"O2-HE"	MA-692



Retaining Ring for all nut & nipple combinations except O2 & WAGD/EVAC **XSR-100**



Cap and chain assembly available for all gases except O2 & WAGD/EVAC **MPC-100**
3/4"-16 UNF-2B RH, brass chrome plated

O2/CO2 MIXTURES		DISS-1200-A	200 PSIG	
Fitting Type	Dimension/Material	Marked	Part Number	
	Nut-Female	7/8" hex, brass chrome plated	"O2-CO2"	MN-120
	Nipple	1/4" I.D. barb, brass chrome plated		MNP-387
	Nipple w/o-ring	1/4" I.D. barb, brass chrome plated		MNP-387W
	Replacement o-ring	EPDM		MR-120
	Body Adaptor	1/8" MNPT, brass chrome plated	"O2-CO2"	MA-700
	Body Adaptor	1/4" MNPT, brass chrome plated	"O2-CO2"	MA-702

SUCTION/VACUUM		DISS-1220-A	200 PSIG	
Fitting Type	Dimension/Material	Marked	Part Number	
	Nut-Female	7/8" hex, brass/chrome	"VAC"	MN-122
	Nut Hand Tight	Brass chrome plated, white plastic grip	"VAC"	MHN-122P
	Nut Hand Tight	Yellow plastic grip for Canadian marking	"VAC"	MHN-122PC
	Nipple	1/4" I.D. barb, brass/chrome		MNP-397
	Nipple w/o-ring	1/4" I.D. barb, brass/chrome		MNP-397W
	Nipple	5/16" I.D. barb, brass/chrome		MNP-398
	Nipple w/o-ring	5/16" I.D. barb, brass/chrome		MNP-398W
	Nipple	1/8" MNPT w/wrench flat, brass/chrome		MNP-399
	Nipple w/o-ring	1/8" MNPT w/wrench flat, brass/chrome		MNP-399W
	Nipple	1/4" MNPT w/wrench flat, brass/chrome		MNP-401
	Nipple w/o-ring	1/4" MNPT w/wrench flat, brass/chrome		MNP-401W
	Replacement o-ring	EPDM		MR-122
	Body Adaptor	1/8" MNPT , brass/chrome	"VAC"	MA-710
	Body Adaptor	1/4" MNPT, brass/chrome	"VAC"	MA-712
	Body Adaptor	1/4" I.D. barb, brass/chrome	"VAC"	MA-714



Retaining Ring for all nut & nipple combinations except O2 & WAGD/EVAC

XSR-100

OXYGEN		DISS-1240-A	200 PSIG	
Fitting Type	Dimension/Material	Marked	Part Number	
	Nut-Female	11/16" hex, brass/chrome		MN-124
	Nut-Female	11/16" hex, brass/chrome	"O2"	MN-124-S
	Nut Hand Tight	Brass chrome plated, green plastic		MHN-124P
	Nut Hand Tight	White plastic grip for Canadian marking		MHN-124PC
	Nipple	3/16" I.D. barb, brass/chrome		MNP-435
	Nipple w/o-ring	3/16" I.D. barb, brass/chrome		MNP-435W
	Nipple	1/4" I.D. barb, brass/chrome		MNP-437
	Nipple w/o-ring	1/4" I.D. barb, brass/chrome		MNP-437W
	Nipple	1/8" MNPT broached, brass/chrome 1"		MNP-439
	Nipple w/o-ring	1/8" MNPT broached, brass/chrome 1"		MNP-439W
	Retaining Ring	Ring for all DISS-1240 nut & nipple combos		XMR-009

OXYGEN (CONT)		DISS-1240-A	200 PSIG
Fitting Type	Dimension/Material	Marked	Part Number
	Nipple	1/8" MNPT broached, brass/chrome 1 1/2"	MNP-440
	Nipple w/o-ring	1/8" MNPT broached, brass/chrome 1 1/2"	MNP-440W
	Replacement o-ring	EPDM	MR-124
 	Body Adaptor	1/8" MNPT, brass/chrome	"O2" MA-740
	Body Adaptor	1/4" MNPT, brass/chrome	MA-742
	Body Adaptor	3/16" I.D. barb, brass/chrome	MA-743
	Body Adaptor	1/4" I.D. barb, brass/chrome	MA-744
	Body Adaptor	1/8" FNPT w/wrench flat, brass/chrome	MA-746
	Body Adaptor	1/4" FNPT w/wrench flat, brass/chrome	MA-748
	Hose Coupler	DISS-1240 male x DISS-1240 male	MC-124
	Cap & Chain	DISS-1240 female gas-tight cap	MPC-124

WAGD/EVACUATION		DISS-2220-A	200 PSIG
Fitting Type	Dimension/Material	Marked	Part Number
	Nut-Female	1" hex, brass/chrome	"EVAC" MN-222
	Nut Hand Tight	Brass chrome plated, purple plastic	"EVAC" MHN-222P
	Nipple	1/4" I.D. barb, brass/chrome	MNP-457
	Nipple w/ O-ring	1/4" I.D. barb, brass/chrome	MNP-457W
	Nipple	5/16" I.D. barb, brass/chrome	MNP-458
	Nipple w/ O-ring	5/16" I.D. barb, brass/chrome	MNP-458W
	Nipple	1/4" MNPT w/wrench flat, brass/chrome	MNP-461
	Nipple w/ O-ring	1/4" MNPT w/wrench flat, brass/chrome	MNP-461W
	Replacement O-ring	EPDM	MR-222
	Retaining Ring	Retaining ring for WAGD nut & nipple combo	XMR-007
	Body Adaptor	1/4" MNPT, brass/chrome	"EVAC" MA-752
	Cap & Chain	DISS-222 female gas-tight cap	MPC-124

Instrument Air		DISS-2080	200 PSIG
Fitting Type	Dimension/Material	Marked	Part Number
	Nut-Female	1" hex, brass/chrome	MN-208
	Nipple	1/4" I.D. barb, brass/chrome	MNP-480
	Nipple w/ O-ring	1/4" I.D. barb, brass/chrome	MNP-480W
	Nipple	1/8" MNPT w/ wrench flat, brass/chrome	MNP-481
	Nipple w/ O-Ring	1/8" MNPT w/ wrench flat, brass/chrome	MNP-481W
	Nipple	1/4" MNPT w/ wrench flat, brass/chrome	MNP-482
	Nipple w/ O-Ring	1/4" MNPT w/ wrench flat, brass/chrome	MNP-482W
	Body Adaptor	1/8" MNPT, brass/chrome	"I-AIR" MA-780
	Body Adaptor	1/4" MNPT, brass/chrome	"I-AIR" MA-782

Application

These relief valves are designed for use with medical cryogenic oxygen units. For use in Puritan Bennett, Penox, CA, Caire, MVE, Linde, Invacare, Perry, Mobilaire, Cryo II, CMT, and Pulsair styles.

Features

- Aluminum bodies available in anodized colors (see ordering options) • Repeatable performance
- All valves are cleaned and packaged for oxygen service per CGA G-4.1 • 100% factory tested

MEDICAL RELIEF VALVES ORDERING SPECIFICATIONS:



Type "RM"
Male Pipe Thread - Popoff



Type "RE"
Male Pipe, Extended Body - Popoff

*RE series is not available
in Stainless Steel

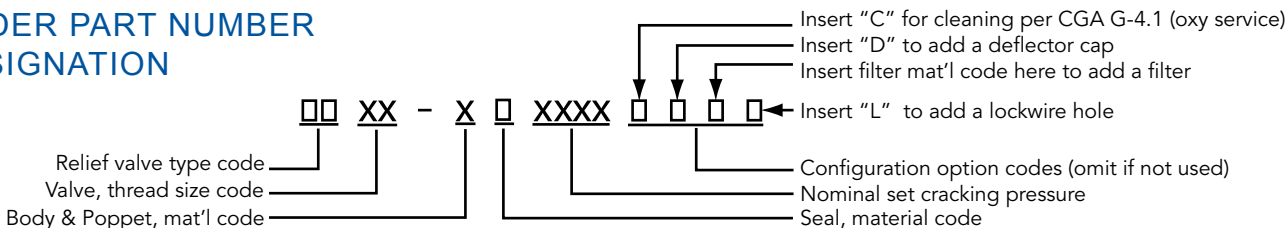


Type "RS"
Male St. Thd. O-Ring Boss Popoff



Type "RL"
Male St. Thd. O-Ring Boss, Ext Body Popoff

ORDER PART NUMBER DESIGNATION



THREAD SIZE CODE

VALVE SIZE, THREADS	SIZE CODE
1/8 - 27 NPT	02
1/4 - 18 NPT	04
3/8 - 18 NPT	06
1/2 - 14 NPT	08
3/4 - 14 NPT	12
1 - 11.5 NPT	16
1 1/4 - 11.5 NPT	20
Straight Thread (SAE)	
.3750-24 UNF-2A	03
.4375-20 UNF-2A	04
.5625-18 UNF-2A	06
.7500-16 UNF-2A	08
.8750-14 UNF-2A	10
1.0625-12 UNF-2A	12
1.3125-12 UNF-2A	16

BODY & POPPET MATERIAL & COLOR OPTIONS

BODY & POPPET MATERIALS	MAT'L CODE
Brass, Plain	1
Brass, Nickel Plate	2
Alum., Anodize - Clear	3
Alum., Anodize - Blue	7
Alum., Anodize - Green	8
Alum., Anodize - Black	9
Alum., Anodize - Red	A
Stainless, 316*	5

*RE series is not available
in Stainless Steel

SEAL MATERIAL OPTIONS

SEAL MATERIAL	MAT'L CODE
Buna N	B
Neoprene	N
Silicone	S
FKM	V
EPR	E
PTFE	T

FILTER OPTIONS

FILTER MATERIAL	MAT'L CODE
Polyethylene	F
Bronze, Sintered	Y

OTHER OPTIONS

D= Deflector Cap*
*Not on 1/8

CRACKING PRESSURES

Insert needed pressure from
.5 to 150 PSIG. Use fourth X
as half PSIG if needed.

Example Part Number: RM04-3N030CDY
Male Pipe, 1/8, Alum., 30 PSI, Defl. Cap, Bronze Filter

For dimensional, flow, cracking & reset performance data visit our web page
macrotechnologies.com or superiorprod.com

BRASS PLUG & CHAIN ASSEMBLIES

Two-Piece Assemblies

These two-piece nut and blind nipple assemblies are made to CGA standards and make a gas tight seal.



CGA No.	Gases	Connection	Gas Seal (PSI)	Part No.
326	Nitrous Oxide	.830"-14NGO-RH-INT	3000	PC-4326
347	Air	.830"-14NGO-RH-INT	5500	PC-4347
580	Argon/Helium/Nitrogen	.960"-14NGO-RH-EXT	3000	PC-4580

One-Piece Assemblies

These shorter one-piece plug and chains can be used where space is limited, to seal off cylinder valves and still be able to install the cylinder valve cap. The part makes a gas tight seal. Nipples have replaceable soft tips or o-rings.



CGA No.	Gases	Connection	Gas Seal (PSI)	Part No.
320	Carbon Dioxide	.830"-14NGO-RH-INT	500	PC-320
326	Nitrous Oxide	.830"-14NGO-RH-INT	3000	PC-326
346	Air	.830"-14NGO-RH-INT	3000	PC-346
540	Oxygen	.908"-14NGO-LH-INT	3000	PC-540
580	Argon/Helium/Nitrogen	.960"-14NGO-RH-EXT	3000	PC-580



Capacity	M6 (B) 164L	M6A (ML6) 171L	C (M9) 248L	D 415L	E 648L	M60 1723L	M 3453L
Cylinders per pallet	144	81	81	81	81	42	25
Weight lbs.	2.2	2.8	3.7	4.9	7.3	22.5	40.0
Standard Post Valve	MCYL-1013	MCYL-1017	MCYL-1021	MCYL-1025	MCYL-1029		
Standard Post Valve - Pallet	MCYL-1013-P	MCYL-1017-P	MCYL-1021-P	MCYL-1025-P	MCYL-1029-P		
Toggle Valve	MCYL-1014	MCYL-1018	MCYL-1022	MCYL-1026	MCYL-1030		
Toggle Valve - Pallet	MCYL-1014-P	MCYL-1018-P	MCYL-1022-P	MCYL-1026-P	MCYL-1030-P		
CGA-540 valve & carrying handle						MCYL-1040	MCYL-1050
CGA-540 valve & carrying handle - Pallet						MCYL-1040-P	MCYL-1050-P

NPT PIPE FITTINGS

90° Elbow			Female Adaptor		
1000 PSIG	Part No.		3000 PSIG	Part No.	
1/8" x 1/8" NPT Female 1/4" x 1/4" NPT Female	 MPF-201 MPF-202		1/8" x 1/8" NPT Female 1/4" x 1/8" NPT Female 1/4" x 1/4" NPT Female	 MPF-321 MPF-322 MPF-323	
90° Street Elbow			Adaptor		
1000 PSIG	Part No.		3000 PSIG	Part No.	
1/8" Female x 1/8" NPT Male 1/4" Female x 1/8" NPT Male 1/4" Female x 1/4" NPT Male	 MPF-211 MPF-212 MPF-213		1/8" Female x 1/8" NPT Male 1/4" Female x 1/4" NPT Male 1/4" Female x 1/8" NPT Male	 MPF-411 MPF-412 MPF-413	
45° Elbow			Reducer Bushing		
1000 PSIG	Part No.		3000 PSIG	Part No.	
1/8" Female x 1/8" NPT Male 1/4" Female x 1/4" NPT Male	 MPF-221 MPF-222		1/8" Female x 1/4" NPT Male 1/4" Female x 3/8" NPT Male	 MPF-421 MPF-423	
Tees			Pipe Nipple		
1000 PSIG	Part No.		3000 PSIG	Part No.	
1/8" x 1/8" NPT Female 1/4" x 1/4" NPT Female	 MPF-231 MPF-232		1/8" NPT Male x 1-1/2" long 1/8" NPT Male x 2-1/2" long 1/4" NPT Male x 1-1/2" long 1/4" NPT Male x 2-1/2" long	 MPF-101 MPF-102 MPF-103 MPF-104	
Street Tee			Pipe Extender		
1000 PSIG	Part No.		3000 PSIG	Part No.	
1/8" Females x 1/8" NPT Male 1/4" Females x 1/4" NPT Male	 MPF-241 MPF-242		1/8" Female x 1/8" NPT Male x 2-1/2" long 1/4" Female x 1/4" NPT Male x 3" long	 MPF-511 MPF-512	
Cross			Pipe Plug		
1000 PSIG	Part No.		3000 PSIG	Part No.	
1/8" x 1/8" NPT Female 1/4" x 1/4" NPT Female	 MPF-251 MPF-252		1/8" NPT Male 1/4" NPT Male	 MPF-001 MPF-002	
Hex Nipple			Manifold Block		
3000 PSIG	Part No.		3000 PSIG	Part No.	
1/8" x 1/8" NPT Male 1/4" x 1/8" NPT Male 1/4" x 1/4" NPT Male	 MPF-311 MPF-312 MPF-313		Six 1/4" NPT Female ports	 MMB-006	

CGA TEE COUPLERS

3000 PSIG

	Gas Service	Inlet	x	Outlets	Part Number
MC-540 	Carbon Dioxide Tee	CGA 320 Female	x	CGA 320 Male	MC-320
	Nitrous Oxide Tee	CGA 326 Female	x	CGA 326 Male	MC-326
	Medical Air Tee	CGA 346 Female	x	CGA 346 Male	MC-346
	Medical Mixture Tee	CGA 500 Male	x	CGA 500 Female	MC-500
MC-580 	Oxygen Tee	CGA 540 Female	x	CGA 540 Male	MC-540
	Nitrogen, Helium Tee	CGA 580 Male	x	CGA 580 Female	MC-580

NFPA Replacement Pigtails for Hospital Medgas Systems

- 304 Stainless Steel Braid
- PTFE Core
- 3,000 PSI Working Pressure
- 100% Leak Tested & Bagged

- Permanent non removable CGA fitting ends per NFPA code
- Stainless Steel Braid not for use with Oxygen



- Annealed Copper Tubing
- 5/16" OD x .065 wall
- Silver Brazed End Fittings
- 3,000 PSI Working Pressure
- Permanent non removable CGA fitting ends per NFPA code



Aprox. 20"

Gas Service	Inlet/Outlet Threads	Hose Materials	Part No.
Carbon Dioxide	CGA 320 Female Nut	Stainless Steel/PTFE	PTFP-320-24 or 36
Nitrous Oxide	CGA 326 Female Nut	Stainless Steel/PTFE	PTFP-326-24 or 36
Medical Air	CGA 346 Female Nut	Stainless Steel/PTFE	PTFP-346-24 or 36
Medical Mixture	CGA 500 Male Nut	Stainless Steel/PTFE	PTFP-500-24 or 36
Nitrogen, Helium	CGA 580 Male Nut	Stainless Steel/PTFE	PTFP-580-24 or 36
Oxygen	CGA 540 Female Nut	Copper/Brass ends	PT-4540*
Nitrous Oxide	CGA 326 Female Nut	Copper/Brass ends	PT-4326*
Medical Air	CGA 346 Female Nut	Copper/Brass ends	PT-4346*
Nitrogen, Helium	CGA 580 Male Nut	Copper/Brass ends	PT-4580*

*For Check Valves, add "CV" to end of part number

72" Gas Use Pigtails

for use with Dewar manifold systems
after regasification
(not for use with cryogenic liquids)



- Black Urethane perforated cover
- 3/8" ID Nylon Core
- 2,250 PSI Working Pressure
- Permanent non removable CGA fitting ends per NFPA code

Gas Service	Inlet/Outlet Threads	Hose Material	Part No.
Carbon Dioxide	CGA 320 Female Nut	3/8" I.D. Nylon Tube	PFSL-320-72
Nitrous Oxide	CGA 326 Female Nut	3/8" I.D. Nylon Tube	PFSL-326-72
Medical Air	CGA 346 Female Nut	3/8" I.D. Nylon Tube	PFSL-346-72
Medical Mixture	CGA 500 Male Nut	3/8" I.D. Nylon Tube	PFSL-500-72
Oxygen	CGA 540 Female Nut	3/8" I.D. Nylon Tube	PFSL-540-72
Nitrogen, Helium	CGA 580 Male Nut	3/8" I.D. Nylon Tube	PFSL-580-72

The pigtails on this page are specially designed to meet the requirements of NFPA for Hospital medgas manifold systems. The major feature being NFPA's requirement for permanent affixed ends to avoid cross connection through modification or switching of the nut and nipple to hook up a different gas than a system was designed for. The other requirement is a mandatory copper pigtail for use in high pressure oxygen service. Some states also require that because Nitrous Oxide is an oxidizer, copper is also required.

TRIPLE OUTLET RAIL BLOCK

200 PSIG

Fitting Type	Dimensions	Part Number
Bracket	Aluminum wall mounting bracket	MTO-001
NPT Block	1/8" FNPT inlet x 1/4" FNPT outlets	MTO-004
DISS-1040 Block	DISS-1040 female swivel inlet x DISS -1040 male outlets	MTO-104
DISS-1160 Block	DISS-1160 female swivel inlet x DISS -1160 male outlets	MTO-116
DISS-1220 Block	DISS-1220 female swivel inlet x DISS -1220 male outlets	MTO-122
DISS-1240 Block	DISS-1240 female swivel inlet x DISS -1240 male outlets	MTO-124
DISS-1240 Block	DISS-1240 female hand tight inlet x DISS -1240 male DV out	MTO-124DV



Y CONNECTORS

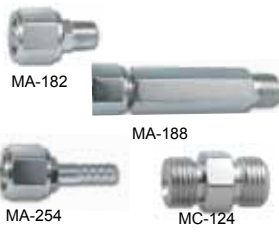
Fitting Type	Inlet	x	Outlet	Part Number
 MYV-050	 MY-080	 MY-050	 MY-184	
NPT Y Connector	1/8" FNPT inlet x 1/4" FNPT outlets			MY-184
NPT Y Connector	1/4" MNPT inlet x 1/4" FNPT outlets			MY-224
DISS-1240 Y Adaptor	DISS-1240 female nut inlet x DISS -1240 male outlets w/o valves			MY-050
DISS-1240 Y Adaptor	DISS-1240 female nut inlet x 1/4" NPT female outlets w/o valves			MY-080
DISS-1240 Y Adaptor	DISS-1240 female nut inlet x DISS -1240 male outlets w/valves			MYV-050

BALL SEAT SHUT OFF VALVES WITH STAINLESS STEEL STEM

200 PSIG

Valve Type	Inlet	x	Outlet	Handle	Part #
	Oxygen	DISS-1240 male inlet x DISS-1240 male outlet		brass	MV-050
	Oxygen	DISS-1240 male inlet x DISS-1240 male outlet		plastic	MV-050P
	Oxygen	DISS-1240 female swivel inlet x DISS-1240 male outlet		brass	MV-052
	Oxygen	DISS-1240 female swivel inlet x DISS-1240 male outlet		plastic	MV-052P
	Oxygen	DISS-1240 male inlet x 1/4" NPT male outlet		brass	MV-076
	Oxygen	DISS-1240 male inlet x 1/4" NPT male outlet		plastic	MV-076P
	Oxygen	1/4" NPT male inlet x DISS-1240 male outlet		brass	MV-088
	Oxygen	1/4" NPT male inlet x DISS-1240 male outlet		plastic	MV-088P
3000 PSI					
	All Gases	1/8" NPT male inlet x 1/8" NPT male outlet		brass	MV-301
	All Gases	1/8" NPT male inlet x 1/8" NPT male outlet		plastic	MV-301P
	All Gases	1/4" NPT male inlet x 1/4" NPT male outlet		brass	MV-333
	All Gases	1/4" NPT male inlet x 1/4" NPT male outlet		plastic	MV-333P
	All Gases	1/4" NPT female inlet x 1/4" NPT male outlet		brass	MV-334
	All Gases	1/4" NPT female inlet x 1/4" NPT male outlet		plastic	MV-334P
	All Gases	1/4" NPT male inlet x 1/4" NPT female outlet		brass	MV-335
	All Gases	1/4" NPT male inlet x 1/4" NPT female outlet		plastic	MV-335P

DISS ADAPTORS

Fitting Type	Inlet	x	Outlet	Part Number
	Straight Adaptor	DISS-1240 female nut	x 1/8" NPT male 1 1/2" long	MA-182
	Straight Adaptor	DISS-1240 female nut	x 1/4" NPT male 2 1/2" long	MA-188
	Straight Adaptor	DISS-1240 female nut	x 1/4" NPT male 1 1/2" long	MA-192
	Straight Adaptor	DISS-1240 female nut	x 1/4" I.D. hose barb	MA-254
	Hose Coupler	DISS-1240 male	x DISS-1240 male	MC-124
	90° Adaptor	DISS-1240 female nut	x 1/4" NPT male	MA-194
	90° Adaptor	DISS-1240 female nut	x DISS-1240 male	MA-322
	90° Adaptor	DISS-1240 female nut	x DISS-1240 male 1 3/4" long	MA-328
	90° Adaptor	DISS-1240 male	x 1/4" NPT male	MA-334

DEMAND FLOW VALVES

Fitting Type	Inlet	x	Outlet	Part Number
	Nitrous Oxide Demand Valve	DISS-1040 male	x 1/8" NPT male	MA-620DV
	Nitrous Oxide Demand Valve	DISS-1040 male	x 1/4" NPT male	MA-622DV
	Nitrogen Demand Valve	DISS-1120 male	x 1/4" NPT male	MA-662DV
	Air Demand Valve	DISS-1160 male	x 1/8" NPT male	MA-680DV
	Air Demand Valve	DISS-1160 male	x 1/4" NPT male	MA-682DV
	Vacuum Demand Valve	DISS-1220 male	x 1/4" NPT male	MA-712DV
	Oxygen Demand Valve	DISS-1240 male	x 1/8" NPT male	MA-740DV
	Oxygen Demand Valve	DISS-1240 male	x 1/4" NPT male	MA-742DV
	WAGD Demand Valve	DISS-2220 male	x 1/4" NPT male	MA-752DV
	Demand Valve Extension	1/4" NPT male	x 1/8" NPT female	MD-002

DEMAND FLOW VALVES WITH HAND TIGHT GRIP

Fitting Type	Inlet	x	Outlet	Part Number
	Nitrous Oxide	DISS-1040 male	x 1/4" ID Hose Barb	MA-622 DVHT
	Nitrogen	DISS-1120 male	x 1/4" ID Hose Barb	MA-662 DVHT
	Air	DISS-1160 male	x 1/4" ID Hose Barb	MA-682 DVHT
	Vacuum	DISS-1220 male	x 1/4" ID Hose Barb	MA-712 DVHT
	Vacuum	DISS-1220 male	x 5/16" ID Hose Barb	MA-715 DVHT
	Oxygen	DISS-1240 male	x 1/4" ID Hose Barb	MA-742 DVHT
	WAGD	DISS-2220 male	x 1/4" ID Hose Barb	MA-752 DVHT
	WAGD	DISS-2220 male	x 5/16" ID Hose Barb	MA-755 DVHT

Body Adaptors with One-Way Check Valve**200 PSIG**

Service	Thread Size	Part Number
Nitrous Oxide, DISS 1140-A	1/8" NPT Male, 3/4"-16 Thread	MA-620CV
Nitrous Oxide, DISS 1040-A	1/4" NPT Male, 3/4"-16 Thread	MA-622CV
Nitrogen, DISS 1120-A	1/4" NPT Male, 3/4"-16 Thread	MA-662CV
Medical Air, DISS 1160-A	1/8" NPT Male, 3/4"-16 Thread	MA-680CV
Medical Air, DISS 1160-A	1/4" NPT Male, 3/4"-16 Thread	MA-682CV
Oxygen, DISS 1240	1/8" NPT Male, 9/16"-18 Thread	MA-740CV
Oxygen, DISS 1240	1/4" NPT Male, 9/16"-18 Thread	MA-742CV

Low Pressure NPT Adaptors with One-Way Check Valve**200 PSIG**

Description	Part Number
Flows from 1/4" NPT Female to 1/4" NPT Male	MB-219CV
Flows from 1/4" NPT Male to 1/4" NPT Female	MB-220CV

Low Pressure NPT Hex Nipple with One-Way Check Valve**200 PSIG**

Description	Part Number
1/4" NPT Male x 1/4" NPT Male	MB-215CV

High Pressure Inline Check Valves**3000 PSIG**

Inlet	Flow	Outlet	Part Number
1/4" MNPT	—>	1/4" MNPT	MCV-215
1/4" MNPT	—>	1/4" FNPT	MCV-219
1/4" FNPT	—>	1/4" FNPT	MCV-229
1/4" FNPT	—>	1/4" MNPT	MCV-230

ACCESSORIES**PTFE Thread Tape (Oxygen Compatible)**

MIL SPEC T-27730A



1/4" wide x 520" long	TT-001
1/2" wide x 520" long	TT-003
1/2" wide x 520" long (green color)	TTG-003

Leak Test Solution

OXYGEN SAFE



8 oz. Refillable plastic bottle
1 gallon jug

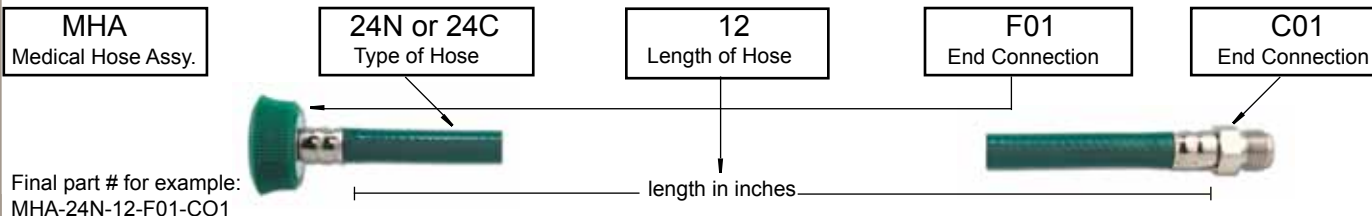
LD-008
LD-128



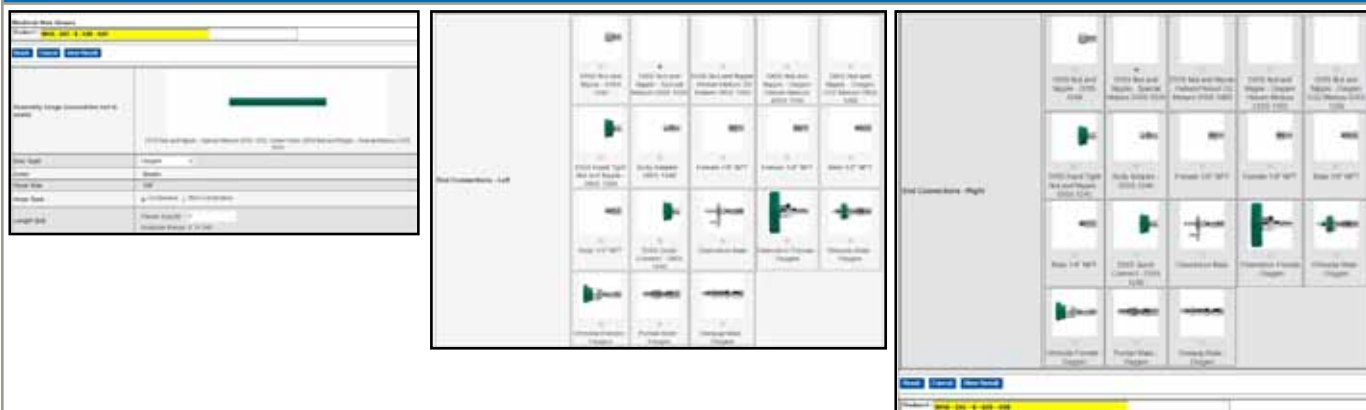
OXYGEN			CO2/OXYGEN MIXTURE CO2 OVER 7%		
CGA 870	Inlet	Part Number	CGA 940	Inlet	Part Number
Yoke w/HT grip x CGA 540 male		MFY-870-1H	Yoke w/HT grip x 1/4" NPT male		MFY-940-4H
Yoke w/T-handle x CGA 540 male		MFY-870-1	Yoke w/T-handle x 1/4" NPT male		MFY-940-4
Yoke w/HT grip x 1/4" NPT male		MFY-870-4H	Yoke w/HT grip x 1/2" NPT male		MFY-940-8H
Yoke w/T-handle x 1/4" NPT male		MFY-870-4	Yoke w/T-handle x 1/2" NPT male		MFY-940-8
Yoke w/HT grip x 1/2" NPT male		MFY-870-8H			
Yoke w/T-handle x 1/2" NPT male		MFY-870-8			
CO2/OXYGEN MIXTURE CO2 NOT OVER 7%			MEDICAL AIR		
CGA 880	Inlet	Part Number	CGA 950	Inlet	Part Number
Yoke w/HT grip x 1/4" NPT male		MFY-880-4H	Yoke w/HT grip x 1/4" NPT male		MFY-950-4H
Yoke w/T-handle x 1/4" NPT male		MFY-880-4	Yoke w/T-handle x 1/4" NPT male		MFY-950-4
Yoke w/HT grip x 1/2" NPT male		MFY-880-8H	Yoke w/HT grip x 1/2" NPT male		MFY-950-8H
Yoke w/T-handle x 1/2" NPT male		MFY-880-8	Yoke w/T-handle x 1/2" NPT male		MFY-950-8
HELIUM/OXYGEN MIXTURE HELIUM NOT OVER 80%			NITROGEN		
CGA 890	Inlet	Part Number	CGA 960	Inlet	Part Number
Yoke w/HT grip x 1/4" NPT male		MFY-890-4H	Yoke w/HT grip x 1/4" NPT male		MFY-960-4H
Yoke w/T-handle x 1/4" NPT male		MFY-890-4	Yoke w/T-handle x 1/4" NPT male		MFY-960-4
Yoke w/HT grip x 1/2" NPT male		MFY-890-8H	Yoke w/T-handle x 1/2" NPT male		MFY-960-8
Yoke w/T-handle x 1/2" NPT male		MFY-890-8	Yoke w/HT grip x 1/2" NPT male		MFY-960-8H
NITROUS OXIDE			MEDICAL GAS MIXTURES		
CGA 910	Inlet	Part Number	CGA 973	Inlet	Part Number
Yoke w/HT grip x 1/4" NPT male		MFY-910-4H	Yoke w/HT grip x 1/4" NPT male		MFY-973-4H
Yoke w/T-handle x 1/4" NPT male		MFY-910-4	Yoke w/T-handle x 1/4" NPT male		MFY-973-4
Yoke w/HT grip x 1/2" NPT male		MFY-910-8H	Yoke w/T-handle x 1/2" NPT male		MFY-973-8
Yoke w/T-handle x 1/2" NPT male		MFY-910-8	Yoke w/HT grip x 1/2" NPT male		MFY-973-8H
HELIUM/OXYGEN MIXTURE HELIUM OVER 80%			Replacement Parts for all Yokes		
CGA 930	Inlet	Part Number	T-handle		MYP-001
Yoke w/HT grip x 1/4" NPT male		MFY-930-4H	Hand tight handle		MYP-002
Yoke w/T-handle x 1/4" NPT male		MFY-930-4	Inlet bushing 1/4" NPT male		MYP-004
Yoke w/HT grip x 1/2" NPT male		MFY-930-8H	Inlet bushing 1/2" NPT male		MYP-008
Yoke w/T-handle x 1/2" NPT male		MFY-930-8	Tefzel washer		MYP-010
			Nylon washer		MYP-011
			FKM washer		MYP-012
			Sintered inlet filter		MYP-015
			Stainless steel pin		MYP-020
			Inlet bushing CGA 540 male w/filter*		MYP-540
			* For CGA 870 yoke only		

How to order

Superior Medical hose assemblies are made to order, tested and individually bagged. Each configured part number consists of five elements: (see below) The 1st place holder specifies the type of item, MHA or medical hose assembly. The 2nd place holder specifies the type of hose: gas service & conductive C or non-conductive N. The 3rd place holder specifies the length of hose in inches. The 4th & 5th section designate the connections required at each end.



superiorprod.com Online Custom Hose Configurator



Configure your custom Medical Gas Hoses online by selecting: Gas Type, Hose Type, Length, End Connections
Minimum Length = 8" **Maximum Length = 3,600" (Non-Conductive) / 240" (Conductive)**

TYPES OF HOSE

	Non-Conductive	Conductive		Non-Conductive	Conductive
Nitrous Oxide 1/4" (Blue)	04N	04C	WAGD 5/16" (Purple)	50N	N/A
CO ₂ 1/4" (Gray)	N/A	08C	Suction/Vacuum 1/4" (White)	22N	22C
Nitrogen 1/4" (Black)	12N	12C	Suction/Vacuum 5/16" (White)	N/A	52C
Medical Air 1/4" (Yellow)	16N	16C	Oxygen 1/4" (Green)	24N	24C

END CONNECTIONS

A DISS Nut & Nipple

Oxygen DISS 1240	01
Vacuum DISS 1220 1/4"	02
Vacuum DISS 1220 5/16" FNPT	52
Medical Air DISS 1160	03
Nitrogen DISS 1120	04
Nitrous Oxide DISS 1040	05
Special Mixtures DISS 1020	06
Helium/Helium O ₂ Mixture DISS 1060	07
CO ₂ /CO ₂ O ₂ Mixture DISS 1080	08
Oxygen Helium Mixture DISS 1180	09
Oxygen CO ₂ Mixture DISS 1200	10
WAGD/EVAC DISS 2220	51



B DISS Hand Tight Nut & Nipple

Oxygen DISS 1240	01
Vacuum DISS 1220 1/4"	02
Vacuum DISS 1220 5/16"	52
Medical Air DISS 1160	03
Nitrogen DISS 1120	04
Nitrous Oxide DISS 1040	05
WAGD/EVAC DISS 2220	51



C Body Adaptor

Oxygen DISS 1240	01
Vacuum DISS 1220 1/4"	02
Vacuum DISS 1220 5/16"	52
Medical Air DISS 1160	03
Nitrogen DISS 1120	04
Nitrous Oxide DISS 1040	05
CO ₂ /CO ₂ O ₂ Mixture DISS 1080	08
WAGD/EVAC DISS 2220	51



D Female NPT

1/8" NPT	01
1/4" NPT	02



E Male NPT

1/8" NPT	01
1/4" NPT	02
1/4"-5/16" Hose	04



END CONNECTIONS (CONT.)

F DISS Quick Connect (Quicknut)

Oxygen DISS 1240	01
Vacuum DISS 1220 1/4"	02
Vacuum DISS 1220 5/16"	52
Medical Air DISS 1160	03
Nitrogen DISS 1120	04
Nitrous Oxide DISS 1040	05
WAGD/EVAC DISS 2220	51

G Chemetron Male

Oxygen	01
Vacuum 1/4"	02
Vacuum 5/16"	52
Medical Air	03
Nitrous Oxide	05
CO2	08
WAGD/EVAC	51

H Chemetron Female

Oxygen	01
Vacuum 1/4"	02
Vacuum 5/16"	52
Medical Air	03
Nitrous Oxide	05
CO2	08
WAGD/EVAC	51

I Ohmeda Male

Oxygen	01
Vacuum 1/4"	02
Vacuum 5/16"	52
Medical Air	03
Nitrous Oxide	05
CO2	08
WAGD/EVAC	51

J Ohmeda Female

Oxygen	01
Vacuum 1/4"	02
Vacuum 5/16"	52
Medical Air	03
Nitrous Oxide	05
CO2	08
WAGD/EVAC	51

K Puritan Male

Oxygen	01
Vacuum 1/4"	02
Vacuum 5/16"	52
Medical Air	03
Nitrous Oxide	05
CO2	08
WAGD/EVAC	51

L Oxequip Male

Oxygen	01
Vacuum 1/4"	02
Vacuum 5/16"	52
Medical Air	03
Nitrous Oxide	05

BULK HOSE



- FDA Medical Grade PVC
- 250 PSIG Working Pressure at 70°F
- 1000 PSIG Burst Pressure 70°F
- Two Layer Construction w/Polyester Braid
- CGA C-9 Color Coded
- 250 Foot Reels - Conductive
- 300 Foot Reels - Non-Conductive
- 3" Bend Radius
- Working temperature range -25°F to 150°F

**Non-Conductive**

Gas Service/I.D./Color	Part Number
General 1/4" (Clear)	MH-100-04N
Nitrous Oxide 1/4" (Blue)	MH-104-04N
Nitrogen 1/4" (Black)	MH-112-04N
Medical Air 1/4" (Yellow)	MH-116-04N
WAGD 5/16" (Purple)	MH-222-05N
Vacuum/Suction 1/4" (White)	MH-122-04N
Oxygen 1/4" (Green)	MH-124-04N

Conductive (effective to 20')

Gas Service/I.D./Color	Part Number
General 1/4" (Clear)	N/A
Nitrous Oxide 1/4" (Blue)	MH-104-04C
CO ₂ 1/4" (Gray)	MH-108-04C
Nitrogen 1/4" (Black)	MH-112-04C
Medical Air 1/4" (Yellow)	MH-116-04C
Vacuum/Suction 1/4" (White)	MH-122-04C
Suction/Vacuum 5/16" (White)	MH-122-05C
Oxygen 1/4" (Green)	MH-124-04C

Select inlet
connection
required from
the left hand
column



Select gas service requirements from top row

INLET	OXYGEN	AIR	VACUUM	N ₂ O	WAGD	CO ₂
 1/8" MNPT	M-CM-OX-1	M-CM-AR-1	M-CM-SC-1	M-CM-NO-1	M-CM-EV-1	M-CM-CO-1
 1/4" HOSE *5/16" HOSE	M-CM-OX-2	M-CM-AR-2	M-CM-SC-2	M-CM-NO-2	*M-CM-EV-8	M-CM-CO-2
 DISS MALE	M-CM-OX-3	M-CM-AR-3	M-CM-SC-3	M-CM-NO-3	M-CM-EV-3	M-CM-CO-3
 1/4" MNPT	M-CM-OX-4	M-CM-AR-4	M-CM-SC-4	M-CM-NO-4	M-CM-EV-4	M-CM-CO-4
 1/8" FNPT	M-CM-OX-5	M-CM-AR-5	M-CM-SC-5	M-CM-NO-5	M-CM-EV-5	M-CM-CO-5
 DISS HANDTIGHT	M-CM-OX-6	M-CM-AR-6	M-CM-SC-6	M-CM-NO-6	M-CM-EV-6	N/A
 DISS NUT & NIPPLE	M-CM-OX-7	M-CM-AR-7	M-CM-SC-7	M-CM-NO-7	M-CM-EV-7	M-CM-CO-7

Select inlet
connection
required from
the left hand
column



Select gas service requirements from top row

INLET	OXYGEN	AIR	VACUUM	N ₂ O	WAGD
 1/8" MNPT	F-CM-OX-1	F-CM-AR-1	F-CM-SC-1	F-CM-NO-1	F-CM-EV-1
 1/4" HOSE *5/16" HOSE	F-CM-OX-2	F-CM-AR-2	F-CM-SC-2	F-CM-NO-2	*F-CM-EV-8
 DISS MALE	F-CM-OX-3	F-CM-AR-3	F-CM-SC-3	F-CM-NO-3	F-CM-EV-3
 1/4" MNPT	F-CM-OX-4	F-CM-AR-4	F-CM-SC-4	F-CM-NO-4	F-CM-EV-4
 1/8" FNPT	F-CM-OX-5	F-CM-AR-5	F-CM-SC-5	F-CM-NO-5	F-CM-EV-5
 DISS HANDTIGHT	F-CM-OX-6	F-CM-AR-6	F-CM-SC-6	F-CM-NO-6	F-CM-EV-6
 DISS NUT & NIPPLE	F-CM-OX-7	F-CM-AR-7	F-CM-SC-7	F-CM-NO-7	F-CM-EV-7

Select inlet
connection
required from
the left hand
column



Select gas service requirements from top row

INLET	OXYGEN	AIR	VACUUM	N ₂ O	WAGD	CO ₂
 1/8" MNPT	M-OH-OX-1	M-OH-AR-1	M-OH-SC-1	M-OH-NO-1	M-OH-EV-1	M-OH-CO-1
 1/4" HOSE *5/16" HOSE	M-OH-OX-2	M-OH-AR-2	M-OH-SC-2	M-OH-NO-2	*M-OH-EV-8	M-OH-CO-2
 DISS MALE	M-OH-OX-3	M-OH-AR-3	M-OH-SC-3	M-OH-NO-3	M-OH-EV-3	M-OH-CO-3
 1/4" MNPT	M-OH-OX-4	M-OH-AR-4	M-OH-SC-4	M-OH-NO-4	M-OH-EV-4	M-OH-CO-4
 1/8" FNPT	M-OH-OX-5	M-OH-AR-5	M-OH-SC-5	M-OH-NO-5	M-OH-EV-5	M-OH-CO-5
 DISS HAND TIGHT	M-OH-OX-6	M-OH-AR-6	M-OH-SC-6	M-OH-NO-6	M-OH-EV-6	N/A
 DISS NUT & NIPPLE	M-OH-OX-7	M-OH-AR-7	M-OH-SC-7	M-OH-NO-7	M-OH-EV-7	M-OH-CO-7

Select inlet connection required from the left hand column



Select gas service requirements from top row

INLET	OXYGEN	AIR	VACUUM	N ₂ O	WAGD	CO ₂
 1/8" MNPT	F-OH-OX-1	F-OH-AR-1	F-OH-SC-1	F-OH-NO-1	F-OH-EV-1	F-OH-CO-1
 1/4" HOSE *5/16" HOSE	F-OH-OX-2	F-OH-AR-2	F-OH-SC-2	F-OH-NO-2	*F-OH-EV-8	F-OH-CO-2
 DISS MALE	F-OH-OX-3	F-OH-AR-3	F-OH-SC-3	F-OH-NO-3	F-OH-EV-3	F-OH-CO-3
 1/4" MNPT	F-OH-OX-4	F-OH-AR-4	F-OH-SC-4	F-OH-NO-4	F-OH-EV-4	F-OH-CO-4
 1/8" FNPT	F-OH-OX-5	F-OH-AR-5	F-OH-SC-5	F-OH-NO-5	F-OH-EV-5	F-OH-CO-5
 DISS HAND TIGHT	F-OH-OX-6	F-OH-AR-6	F-OH-SC-6	F-OH-NO-6	F-OH-EV-6	N/A
 DISS NUT & NIPPLE	F-OH-OX-7	F-OH-AR-7	F-OH-SC-7	F-OH-NO-7	F-OH-EV-7	F-OH-CO-7

Select inlet
connection
required from
the left hand
column



Select gas service requirements from top row

INLET	OXYGEN	AIR	VACUUM	N ₂ O	WAGD
 1/8" MNPT	M-PR-OX-1	M-PR-AR-1	M-PR-SC-1	M-PR-NO-1	M-PR-EV-1
 1/4" HOSE *5/16" HOSE	M-PR-OX-2	M-PR-AR-2	M-PR-SC-2	M-PR-NO-2	*M-PR-EV-8
 DISS MALE	M-PR-OX-3	M-PR-AR-3	M-PR-SC-3	M-PR-NO-3	M-PR-EV-3
 1/4" MNPT	M-PR-OX-4	M-PR-AR-4	M-PR-SC-4	M-PR-NO-4	M-PR-EV-4
 1/8" FNPT	M-PR-OX-5	M-PR-AR-5	M-PR-SC-5	M-PR-NO-5	M-PR-EV-5
 DISS HANDTIGHT	M-PR-OX-6	M-PR-AR-6	M-PR-SC-6	M-PR-NO-6	M-PR-EV-6
 DISS NUT & NIPPLE	M-PR-OX-7	M-PR-AR-7	M-PR-SC-7	M-PR-NO-7	M-PR-EV-7

Select inlet
connection
required from
the left hand
column

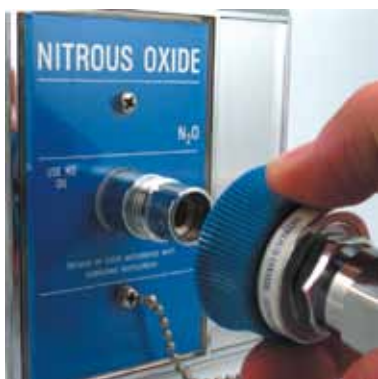


Select gas service requirements from top row

INLET	OXYGEN	AIR	VACUUM	N ₂ O
 1/8" MNPT	M-OX-OX-1	M-OX-AR-1	M-OX-SC-1	M-OX-NO-1
 1/4" HOSE	M-OX-OX-2	M-OX-AR-2	M-OX-SC-2	M-OX-NO-2
 DISS MALE	M-OX-OX-3	M-OX-AR-3	M-OX-SC-3	M-OX-NO-3
 1/4" MNPT	M-OX-OX-4	M-OX-AR-4	M-OX-SC-4	M-OX-NO-4
 1/8" FNPT	M-OX-OX-5	M-OX-AR-5	M-OX-SC-5	M-OX-NO-5
 DISS HANDTIGHT	M-OX-OX-6	M-OX-AR-6	M-OX-SC-6	M-OX-NO-6
 DISS NUT & NIPPLE	M-OX-OX-7	M-OX-AR-7	M-OX-SC-7	M-OX-NO-7

THE INDUSTRY'S ONLY DISS QUICK CONNECT

The patented Superior Medical Quicknut is the industry's only available DISS quick connect. The segmented thread sections allow the nut to be pushed on. Then a 1/4 turn locks & seals the connection. Quicknut can be used anywhere a standard DISS nut & nipple combination is used. Conversion kits are also available.



1) Push on threads

2) 1/4 turn seals it

Select inlet connection required from the left hand column



Select gas service requirements from top row

INLET	OXYGEN	AIR	VACUUM	N ₂ O	WAGD	NITROGEN
 1/8" MNPT	MHN-124Z-2	MHN-116Z-2	MHN-122Z-2	MHN-104Z-2	N/A	MHN-112Z-2
 1/4" HOSE *5/16" HOSE	MHN-124Z-4B	MHN-116Z-4B	MHN-122Z-4B	MHN-104Z-4B	MHN-222Z-4B *MHN-222Z-5B	MHN-112Z-4B
 DISS MALE	MA-1240AZ	MA-1160AZ	MA-1220AZ	MA-1040AZ	MA-2220AZ	MA-1120AZ
 1/4" MNPT	N/A	MHN-116Z-4	MHN-122Z-4	MHN-104Z-4	MHN-222Z-4	MHN-112Z-4

Select inlet &
outlet connection
required from the
left hand column

For configurations not shown here please contact Superior Products

Select gas service requirements from top row

INLET/OUTLET	OXYGEN	AIR	VACUUM	NITROUS OXIDE
 DISS Nut & Nipple	MDO-A01-C01	MDO-A03-C03	MDO-A02-C02	MDO-A05-C05
 DISS Hand tight	MDO-B01-C01	MDO-B03-C03	MDO-B02-C02	MDO-B05-C05
 DISS Quick Connect	MDO-F01-C01	MDO-F03-C03	MDO-F02-C02	MDO-F05-C05
 Chemetron	MDO-G01-H01	MDO-G03-H03	MDO-G02-H02	MDO-G05-H05
 Ohmeda	MDO-I01-J01	MDO-I03-J03	MDO-I02-J02	MDO-I05-J05
 NPT Block NPT Block	1/8" FNPT inlet x 1/4" FNPT outlets 1/4" FNPT inlet x 1/4" FNPT outlets			MDO-002 MDO-004

Select inlet connection
required from the left
hand column

Select gas service requirements from top row

INLET	OXYGEN	AIR	VACUUM	NITROUS OXIDE
 1/8" FNPT	MDO-124-2	MDO-116-2	MDO-122-2	MDO-104-2
 1/4" FNPT	MDO-124-4	MDO-116-4	MDO-122-4	MDO-104-4
 DISS Nut & Nipple	MDO-124-5	MDO-116-5	MDO-122-5	MDO-104-5
 DISS Hand-tight	MDO-124-6	MDO-116-6	MDO-122-6	MDO-104-6
 DISS Quick Connect	MDO-124-7	MDO-116-7	MDO-122-7	MDO-104-7
 Chemetron Inlet	MDO-124-8	MDO-116-8	MDO-122-8	MDO-104-8
 Ohmeda Inlet	MDO-124-9	MDO-116-9	MDO-122-9	MDO-104-9
 Puritan Inlet	MDO-124-10	MDO-116-10	MDO-122-10	MDO-104-10

Select inlet connection
required from the left
hand column

Select gas service & liters per minute from top row

INLET	OXYGEN 1/8 TO 3.5 LPM	OXYGEN 1/4 TO 8 LPM	OXYGEN 1/2 TO 15 LPM	AIR 1 TO 15 LPM
 1/8" FNPT	MFM-124-1D1	MFM-124-2D1	MFM-124-3D1	MFM-116-3D1
 DISS Quick Connect	MFM-124-1F1	MFM-124-2F1	MFM-124-3F1	MFM-116-3F3
 DISS Nut & Nipple	MFM-124-1A1	MFM-124-2A1	MFM-124-3A1	MFM-116-3A3
 DISS HT Nut & Nipple	MFM-124-1B1	MFM-124-2B1	MFM-124-3B1	MFM-116-3B3
 Chemetron Male	MFM-124-1G1	MFM-124-2G1	MFM-124-3G1	MFM-116-3G3
 Ohmeda Male	MFM-124-1I1	MFM-124-2I1	MFM-124-3I1	MFM-116-3I3
 Puritan Male	MFM-124-1K1	MFM-124-2K1	MFM-124-3K1	MFM-116-3K3

FEATURES

- Brass chrome plated body
- Polycarbonate inner & outer tubes for durability
- Available with full line of inlets & quick connects
- Rated to 250 PSI
- Calibrated to 50 PSI
- Power take off model available, add PT to part #
Example: MFM-124-3I1-PT



Individual Power Take Off Assemblies



Oxygen Power Take Off - PTA-001

Air Power Take Off - PTA-002

REGULATOR INLET NUTS & NIPPLES

VALVE OUTLET ADAPTORS

	MEDICAL BREATHING MIXTURES		CGA 280	3000 PSIG
	Fitting Type	Dimension/Material	Part Number	
	Nut-Female	.750"-14NGO-RH-INT brass chrome plated	MN-059	
	Nipple	1/4" NPT, 2.5" long	MNP-118	
	Nipple, CV	1/4" NPT, 2.5" long with check valve	MNP-118CV	
	Nipple, filtered	1/4" NPT, 2.5" long with filter	MNP-118R	
	Plug & Chain	.750"-14NGO-RH-INT brass chrome plated	MPC-280	

	CARBON DIOXIDE		CGA 320	3000 PSIG
	Fitting Type	Dimension/Material	Part Number	
	Nut-Female	.830"-14NGO-RH-INT brass chrome plated	MN-061	
	Nut, Hand tight	.830"-14NGO-RH-INT brass chrome plated	MHN-061	
	Nut, Hand tight	.830"-14NGO-RH-INT brass, plastic grip	MHN-061P	
 	Nipple	1/4" NPT, 2" long	MNP-147	
	Nipple, filtered	1/4" NPT, 2" long with filter	MNP-147R	
	Nipple	1/4" NPT, 2.5" long	MNP-150	
	Nipple, CV	1/4" NPT, 2.5" long with check valve	MNP-150CV	
	Nipple	1/4" NPT, 2.5" long with HT washer	MNP-150P	
	Washer	PTFE replacement washer	W-10	
	Valve Outlet Adaptor	.825"-14NGO-RH-EXT x 1/4" NPT male	MA-541	
	Plug & Chain	.830"-14NGO-RH-INT brass chrome plated	MPC-320	

	NITROUS OXIDE		CGA 326	3000 PSIG
	Fitting Type	Dimension/Material	Part Number	
 	Nut-Female	.830"-14NGO-RH-INT brass chrome plated	MN-082	
	Nut, Hand tight	.830"-14NGO-RH-INT brass chrome plated	MHN-082	
	Nut, Hand tight	.830"-14NGO-RH-INT brass, plastic grip	MHN-082P	
   	Nipple	1/4" NPT, 2.5" long	MNP-733	
	Nipple, CV	1/4" NPT, 2.5" long with check valve	MNP-733CV	
	Nipple, filtered	1/4" NPT, 2.5" long with filter	MNP-733R	
	Nipple, Hand tight	1/4" NPT, 2.5" long with soft tip	MNP-733P	
	Washer	PTFE replacement washer	T733-1	
	Valve Outlet Adaptor	.825"-14NGO-RH-EXT x 1/4" NPT male	MA-631	
	Valve Outlet Adaptor	.825"-14NGO-RH-EXT x 1/4" NPT female	MN-326A	
	Plug & Chain	.830"-14NGO-RH-INT brass chrome plated	MPC-326	

REGULATOR INLET NUTS & NIPPLES

VALVE OUTLET ADAPTORS

MEDICAL AIR		CGA 346	3000 PSIG
Fitting Type	Dimension/Material	Part Number	
	Nut-Female	.830"-14NGO-RH-INT brass chrome plated	MN-084
	Nut, Hand tight	.830"-14NGO-RH-INT brass chrome plated	MHN-084
	Nut, Hand tight	.830"-14NGO-RH-INT brass, plastic grip	MHN-084P
 	Nipple	1/4" NPT, 2.5" long	MNP-753
	Nipple, CV	1/4" NPT, 2.5" long with check valve	MNP-753CV
	Nipple, filtered	1/4" NPT, 2.5" long with filter	MNP-753R
	Nipple	1/4" NPT, 2.5" long with soft tip	MNP-753P
	Soft Tip replacement	PTFE replacement tip	T753-1
	Valve Outlet Adaptor	.825"-14NGO-RH-EXT x 1/4" NPT male	MA-641
	Valve Outlet Adaptor	.825"-14NGO-RH-EXT x 1/4" NPT female	MN-346A
	Plug & Chain	.830"-14NGO-RH-INT brass chrome plated	MPC-346

MEDICAL MIXTURES		CGA 500	3000 PSIG
Fitting Type	Dimension/Material	Part Number	
	Nut-Male	.880"-14NGO-RH-EXT brass chrome plated	MN-067
	Nut, Hand tight	.880"-14NGO-RH-EXT brass, plastic grip	MHN-067P
 	Nipple	1/4" NPT, 2.5" long	MNP-188
	Nipple, CV	1/4" NPT, 2.5" long with check valve	MNP-188CV
	Nipple, filtered	1/4" NPT, 2.5" long with filter	MNP-188R
	Nipple	1/4" NPT, 3" long	MNP-189
	Nipple, filtered	1/4" NPT, 3" long with filter	MNP-189R
	Nipple	1/4" NPT, 3.5" long	MNP-190
	Nipple, filtered	1/4" NPT, 3.5" long with filter	MNP-190R
	Nipple, Hand tight	1/4" NPT, 3.5" w/soft tip	MNP-190P
	Nipple, Hand tight	1/4" NPT, 3.5" w/o-ring	MNP-190W
	Soft Tip replacement	ETFE soft tip replacement	T189-3
	Valve Outlet Adaptor	.885"-14NGO-RH-INT x 1/4" NPT male	MA-571
	Valve Outlet Adaptor	.885"-14NGO-RH-INT x 1/4" NPT female	MN-500A
	Plug & Chain	.880"-14NGO-RH-EXT brass chrome plated	MPC-500

OXYGEN		CGA 540	3000 PSIG
Fitting Type	Dimension/Material	Part Number	
	Nut-Female	.908"-14NGO-RH-INT brass chrome plated	MN-071
	Nut, Hand tight	.908"-14NGO-RH-INT brass chrome plated	MHN-071
	Nut, Hand tight	.908"-14NGO-RH-INT brass, plastic grip	MHN-071P
	Nipple	1/4" NPT, 2" long	MNP-210
	Nipple, CV	1/4" NPT, 2" long with check valve	MNP-210CV

REGULATOR INLET NUTS & NIPPLES

VALVE OUTLET ADAPTORS

OXYGEN (CONT)		CGA 540	3000 PSIG
Fitting Type	Dimension/Material	Part Number	
	Nipple, filtered	1/4" NPT, 2" long with filter	MNP-210R
	Nipple	1/4" NPT, 2.5" long	MNP-211
	Nipple, Hand tight	1/4" NPT, 2.5" w/soft tip	MNP-211P
	Nipple, filtered	1/4" NPT, 2.5" long with filter	MNP-211R
	Nipple	1/4" NPT, 3" long	MNP-212
	Nipple, filtered	1/4" NPT, 3" long with filter	MNP-212R
	Nipple	1/2-27" UNS, 2.5"	MNP-216
	Nipple, filtered	1/2-27" UNS, 2.5" long with filter	MNP-216R
	Soft Tip replacement	ETFE soft tip replacement	T211-1
	Valve Outlet Adaptor	.903"-14NGO-RH-EXT x 1/4" NPT male	MA-591
	Valve Outlet Adaptor	.903"-14NGO-RH-EXT x 1/4" NPT female	MN-540A
	Plug & Chain	.908"-14NGO-RH-INT brass chrome plated	MPC-540

NITROGEN / INERT		CGA 580	3000 PSIG
Fitting Type	Dimension/Material	Part Number	
	Nut-Male	.960"-14NGO-RH-EXT brass chrome plated	MN-073
	Nut, Hand tight	.960"-14NGO-RH-EXT brass chrome plated	MHN-073
	Nut, Hand tight	.960"-14NGO-RH-EXT brass, plastic grip	MHN-073P
	Nipple	1/4" NPT, 2.5" long	MNP-188
	Nipple, CV	1/4" NPT, 2.5" long with check valve	MNP-188CV
	Nipple, filtered	1/4" NPT, 2.5" long with filter	MNP-188R
	Nipple	1/4" NPT, 3" long	MNP-189
	Nipple, filtered	1/4" NPT, 3" long with filter	MNP-189R
	Nipple	1/4" NPT, 3.5" long	MNP-190
	Nipple, filtered	1/4" NPT, 3.5" long with filter	MNP-190R
	Nipple, Hand tight	1/4" NPT, 3.5" w/soft tip	MNP-190P
	Nipple, Hand tight	1/4" NPT, 3.5" w/o-ring	MNP-190W
	Soft Tip replacement	ETFE soft tip replacement	T189-3
	Valve Outlet Adaptor	.965"-14NGO-RH-INT x 1/4" NPT male	MA-601
	Valve Outlet Adaptor	.965"-14NGO-RH-INT x 1/4" NPT female	MN-580A
	Plug & Chain	.960"-14NGO-RH-EXT brass chrome plated	MPC-580

HOSE FITTINGS & ACCESSORIES

Pipe Thread Barbed Hose Fittings			Nickel Plated Hose Ferrules		
					
NPT	Barb	Part Number	ID Ferrule	Length	Part Number
1/8" NPT male x 1/8" ID hose barb		MA-101	.330"	1/2"	M-6231
1/8" NPT male x 3/16" ID hose barb		MA-102	.358"	1/2"	M-833
1/8" NPT male x 1/4" ID hose barb		MA-103	.380"	1/2"	M-622
1/4" NPT male x 1/8" ID hose barb		MA-111	.410"	1/2"	M-620
1/4" NPT male x 3/16" ID hose barb		MA-112	.450"	9/16"	M-769
1/4" NPT male x 1/4" ID hose barb		MA-113	.478"	11/16"	M-4750
1/4" NPT male x 5/16" ID hose barb		MA-114	.500"	1"	M-7322
1/4" NPT male x 3/8" ID hose barb		MA-115	.500"	1/2"	M-624
1/8" NPT female x 1/8" ID hose barb		MA-151	.500"	5/8"	M-624A
1/8" NPT female x 3/16" ID hose barb		MA-152	.525"	1"	M-7323
1/8" NPT female x 1/4" ID hose barb		MA-153	.525"	1/2"	M-625
1/4" NPT female x 1/8" ID hose barb		MA-161	.525"	5/8"	M-625A
1/4" NPT female x 3/16" ID hose barb		MA-162	.548"	31/64"	M-626
1/4" NPT female x 1/4" ID hose barb		MA-163	.564"	3/4"	M-3588
1/4" NPT female x 5/16" ID hose barb		MA-164	.575"	31/64"	M-KK
1/4" NPT female x 3/8" ID hose barb		MA-165			
1/8" NPT male x "bubble" 1/4" hose barb		MA-203			
Vise Grip Hose Crimper			Hose Splicers, Round Center Stop		
					
Vise Grip crimping tool for 1/4" and 3/16" ID hose		KT-28	3/16" x 3/16" ID hose splicer		MS-333
			1/4" x 1/4" ID hose splicer		MS-344

MEDICAL HOSE REPAIR KIT

Contains a selection of popular fittings for 3/16" & 1/4" I.D. hoses with a vise grip style crimping tool.

Part # MRK-001



Qty.	Part #	Description
1	KT-28	Crimping tool
12	M-626	.548" ID Ferrule
8	M-3588	.564" ID Ferrule
12	M-4750	.478" ID Ferrule
6	M-7322	.500" ID Ferrule
8	M-7323	.525" ID Ferrule
2	MA-102	1/8" mnpt x 3/16" barb
2	MA-103	1/8" mnpt x 1/4" barb
3	MA-740	DISS 1240 x 1/8" mnpt
3	MA-742	DISS 1240 x 1/4" mnpt

Qty.	Part #	Description
2	MA-743	DISS 1240 x 3/16" barb
2	MA-744	DISS 1240 x 1/4" barb
4	MHN-124	DISS 1240 HT nut
4	MN-124	DISS 1240 nut
4	MNP-435	DISS 1240 nipple 3/16" barb
4	MNP-435W	DISS 1240 o-ring nipple 3/16"
4	MNP-437	DISS 1240 nipple 1/4" barb
4	MNP-437W	DISS 1240 o-ring nipple 1/4"
2	MS-333	3/16" hose splicer
2	MS-344	1/4" hose splicer





LIMITED WARRANTY

WARRANTY:

The manufacturer warrants the products sold hereunder to be free from defects in material and workmanship at the date of shipment. Please note the distinction between "defects" and "damage" as used in this warranty: defects are covered because we, the manufacturer, are responsible; however, we have no control over damage caused by such things as misuse or improper installation. Therefore, damage for any reason is not covered under this warranty.

WHAT THE MANUFACTURER WILL DO:

If you, the Buyer, meet the eligibility requirements and obligations listed below, then we shall, within thirty (30) days of receipt of a timely claim and the part or parts claimed to be defective, inspect the part or parts and repair or replace, at our option, any part or parts which we determine were defective at the time of shipment from us. However, if we determine that the part or parts were defective and also that circumstances are such as to prevent us from remedying the warranted defects by repair or replacement, then we may at our option, refund you the purchase price of the part or parts.

ELIGIBILITY REQUIREMENTS & OBLIGATIONS OF BUYER:

You are eligible to obtain service under this warranty if you are the original consumer purchaser, either from us directly or from a seller who stocks our product for resale. However, in order for you to obtain service under this warranty, you must do the following:

1. Send a claim in writing along with samples of the part or parts claimed to be defective to us freight prepaid.
2. Have your claim and sample part or parts delivered within ninety (90) days from the date of shipment of the part or parts from our factory. However, if you bought the part or parts for resale, or if you bought the part or parts from someone who bought them for resale, then you must deliver the claim and the part or parts to us within ninety (90) days from the date of resale—except that under no circumstances shall we honor any claim which fails to be delivered to us with the part or parts within one hundred and eighty (180) day from the date of shipment of the part or parts from our factory.

Your claim along with the sample part or parts should be sent to us:

Superior Products, LLC
3786 Ridge Road
Cleveland, Ohio 44144-1175

Your claim should be in typed or printed form and include the following information:

1. Your name and address; and
2. The name and address of the seller of the part or parts; and
3. The date of purchase of the part or parts; and
4. A short description of the alleged defect; and
5. Proof of the purchase of the part or parts, for example, a receipt or cancelled check.

WHAT IS NOT COVERED UNDER THIS WARRANTY (LIMITATION OF LIABILITY):

As stated above, damage for any reason is not covered under this warranty. Furthermore NO OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF OUR PRODUCTS. However, some states do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you. Also, since this is a limited warranty, WE SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR ANY OTHER CHARGES, LABOR COSTS, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSSES OR DAMAGES OF ANY KIND OR DESCRIPTION WHATSOEVER ARISING OUT OF, OR IN ANYWAY RELATING TO, ANY BREACH OF THIS WARRANTY OR CLAIMED DEFECT IN, OR NON-PERFORMANCE OF, OUR PRODUCTS. However, some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you. This warranty also excludes commercial and other non-consumer purchasers other than the original consumer purchaser.

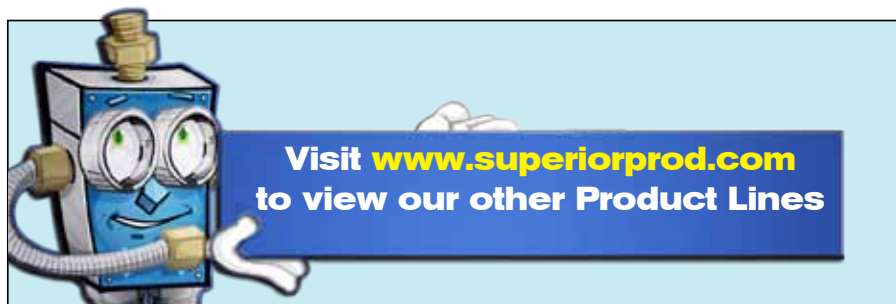
WE HAVE NO AGENTS:

We do not authorize any person to create for us any obligation of liability in connection with our products.

LEGAL RIGHTS:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state (province to province in Canada).

PRICE:
\$8.00



Industrial



Hospital



Specialty



Engineering