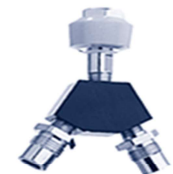


Medical Gas Fittings Product Catalog



"Make Hallowell your source for medical gas fittings, custom assemblies & accessories."



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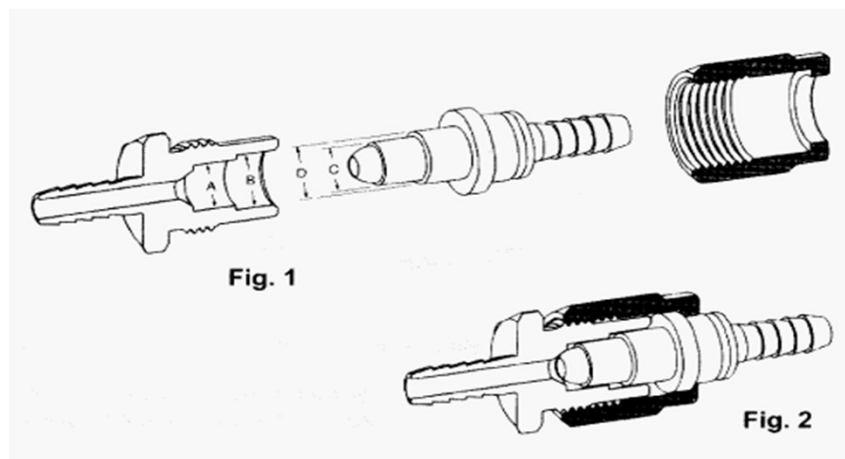
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The fittings shown in this catalog are described and illustrated to provide as much information as possible to assist in the selection of the proper connections to be used for every application.

DIAMETER-INDEX SAFETY SYSTEM



















The Compressed Gas Association (CGA) developed the Diameter-Index Safety System (DISS) to establish a standard for non-interchangeable, removable connections for use with Medical Gases (200psi max), Instrument Air, Vacuum (*Suction*), and WAGD (*Waste Anesthetic Gas Disposal*). Non-interchangeable indexing is achieved by a series of increasing and decreasing diameters in the components of the connections. These specific diameters act in key-like fashion, so that fittings within the gas service "family" will connect only with their own "family members." In place of diameter indexing, Oxygen (*DISS 1240*) has been assigned the long established 9/16"-18 thread connections as its safety standards.

Each connection of the D.I.S.S. SAFETY SYSTEM consists of a Body, Nipple and Nut (Fig #1), designed specifically for various gases to achieve non-interchangeability between different connections. The mating threads for each connection are standard and conform to basic critical dimensions. As the diameter of the Body Adaptor (A & B) increases/decreases, the diameter of its mating nipple (C&D) increases/decreases proportionally. In this way, only the properly mated and intended parts fit together to permit thread engagement (Fig #2). Nipples are in varying lengths with pipe threads or barbs, and nuts are provided with several design features. This, in no way, affects the basic safety features of the DIAMETER - INDEX SAFETY SYSTEM. All D.I.S.S. fittings are machined to strict tolerances, from brass that meets all specifications of Government Agencies and Engineering Societies on Material content. Fittings are nickel-chrome plated under new modern techniques, producing a high quality finish and a product that meets all standards of the Safety System.



COLOR-CODING EXPLANATION

Color-coding is used as a gas identifier worldwide for medical gas fittings and connections. The following color-coding chart shows the USA color-coding standards on the left and the ISO color-coding standards on the right.

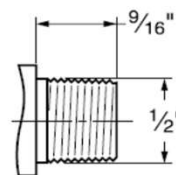
	USA	ISO
Carbon Dioxide	 Grey	 Grey
He-O₂	 Brown and Green	 Brown and White
Medical Air	 Yellow	 Black and White
Nitrogen	 Black	 Black
Nitrous Oxide	 Blue	 Blue
O₂-He	 Green and Brown	 White and Brown
Oxygen	 Green	 White
Vacuum (Suction)	 White	 Yellow
WAGD (EVAC)	 Purple	 Purple

Thread Comparisons Guide:

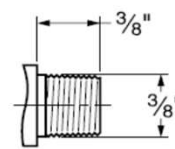
(Actual Size shown)

Compare your old fittings to the threads to determine the NPT size you need.

(Measurements given are approximate.)
















1/4 NPT



1/8 NPT













CHEMETRON QUICK CONNECTS



<i>Available in ISO Colors</i>	 Oxygen	 Air	 Vacuum	 Nitrous Oxide	 WAGD/Evac
 1/8" NPT Male	1M11	1M21	1M31	1M41	1M51
 1/8" NPT Female	1M12	1M22	1M32	1M42	1M52
 1/4" NPT Male	1M13	1M23	1M33	1M43	1M53
 DISS Male	1M18	1M28	1M38	1M48	1M58
 DISS Hex Nut	1M19	1M29	1M39	1M49	1M59
 Hose Barb	1/4" Hose Barb 1M16	1/4" Hose Barb 1M26	1/4" Hose Barb 1M36	1/4" Hose Barb 1M46	1/4" Hose Barb 1M56
			5/16" Hose Barb 1M37		5/16" Hose Barb 1M57
 DISS Male w/DV	1M18-DV	1M28-DV	1M38-DV	1M48-DV	
 DISS Hand Tight	1M110	1M210	1M310	1M410	1M510

CHEMETRON CHECK UNITS (Female Couplers)



<i>ISO Colors NOT Available</i>	 Oxygen	 Air	 Vacuum	 Nitrous Oxide	 WAGD/Evac
 1/8" NPT Male	1F11	1F21	1F31	1F41	1F51
 1/8" NPT Female	1F12	1F22	1F32	1F42	1F52
 1/4" NPT Male	1F13	1F23	1F33	1F43	1F53
 DISS Male	1F18	1F28	1F38	1F48	
 DISS Hex Nut	1F19	1F29	1F39	1F49	
 Hose Barb	1/4" Hose Barb 1F16	1/4" Hose Barb 1F26	1/4" Hose Barb 1F36 5/16" Hose Barb 1F37	1/4" Hose Barb 1F46	1/4" Hose Barb 1F56 5/16" Hose Barb 1F57
 DISS Hand Tight	1F110	1F210	1F310	1F410	

OHMEDA QUICK CONNECTS



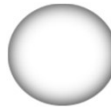
*Available
in ISO Colors*



Oxygen



Air



Vacuum



Nitrous Oxide



WAGD/Evac

	2M11	2M21	2M31	2M41	2M51
1/8" NPT Male					
	2M12	2M22	2M32	2M42	2M52
1/8" NPT Female					
	2M13	2M23	2M33	2M43	2M53
1/4" NPT Male					
	2M18	2M28	2M38	2M48	2M58
DISS Male					
	2M19	2M29	2M39	2M49	2M59
DISS Hex Nut					
	1/4" Hose Barb 2M16	1/4" Hose Barb 2M26	1/4" Hose Barb 2M36	1/4" Hose Barb 2M46	1/4" Hose Barb 2M56
			5/16" Hose Barb 2M37		5/16" Hose Barb 2M57
Hose Barb					
	2M18-DV	2M28-DV	2M38-DV	2M48-DV	
DISS Male w/DV					
	2M110	2M210	2M310	2M410	2M510
DISS Hand Tight					

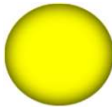
OHMEDA CHECK UNITS (Female Couplers)



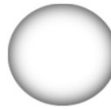
*Available
in ISO Colors*



Oxygen



Air










Vacuum



Nitrous Oxide



WAGD/Evac

 1/8" NPT Male	2F11	2F21	2F31	2F41	2F51
 1/8" NPT Female	2F12	2F22	2F32	2F42	2F52
 1/4" NPT Male	2F13	2F23	2F33	2F43	2F53
 DISS Male	2F18	2F28	2F38	2F48	
 DISS Hex Nut	2F19	2F29	2F39	2F49	
 Hose Barb	1/4" Hose Barb 2F16	1/4" Hose Barb 2F26	1/4" Hose Barb 2F36	1/4" Hose Barb 2F46	1/4" Hose Barb 2F56
			5/16" Hose Barb 2F37		5/16" Hose Barb 2F57
 DISS Hand Tight	2F110	2F210	2F310	2F410	

PURITAN QUICK CONNECTS



*Available
in ISO Colors*



Oxygen



Air



Vacuum



Nitrous Oxide



WAGD/Evac

	3M11	3M21	3M31	3M41	3M51
1/8" NPT Male					
	3M12	3M22	3M32	3M42	3M52
1/8" NPT Female					
	3M13	3M23	3M33	3M43	3M53
1/4" NPT Male					
	3M18-HT	3M28-HT	3M38-HT	3M48-HT	3M58-HT
DISS Male					
	3M19	3M29	3M39	3M49	3M59
DISS Hex Nut					
	1/4" Hose Barb	1/4" Hose Barb	1/4" Hose Barb	1/4" Hose Barb	1/4" Hose Barb
	3M16-HT	3M26-HT	3M36-HT	3M46-HT	3M56-HT
Hose Barb			5/16" Hose Barb		5/16" Hose Barb
			3M37-HT		3M57-HT
	3M18-HT-DV	3M28-HT-DV	3M38-HT-DV	3M48-HT-DV	3M58-HT-DV
DISS Male w/DV					
	3M110	3M210	3M310	3M410	3M510
DISS Hand Tight					

SCHRADER QUICK CONNECTS



Oxygen



Air



Vacuum



Nitrous Oxide



Nitrogen

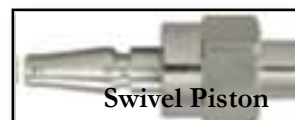
	4M11	4M21	4M31	4M41	4M61
1/8" NPT Male					
	4M12	4M22	4M32	4M42	4M62
1/8" NPT Female					
	4M18	4M28	4M38	4M48	4M68
DISS Male					
	4M19	4M29	4M39	4M49	4M69
DISS Hex Nut					
	1/4" Hose Barb 4M16	1/4" Hose Barb 4M26	1/4" Hose Barb 4M36 5/16" Hose Barb 4M37	1/4" Hose Barb 4M46	1/4" Hose Barb 4M66
Hose Barb					
	4M18-DV	4M28-DV	4M38-DV	4M48-DV	4M68-DV
DISS Male w/DV					
	4M110	4M210	4M310	4M410	4M610
DISS Hand Tight					

Schrader Piston Identification











Hex Piston








(Standard)



Swivel Piston

(Add "S" to Part Number)







PURITAN CHECK UNITS (Female Couplers)					
Available in ISO Colors					
	Oxygen	Air	Vacuum	Nitrous Oxide	WAGD/Evac
	3F13	3F23	3F33	3F43	3F53
1/4" NPT Male					
	1/4" Hose Barb 3F16	1/4" Hose Barb 3F26	1/4" Hose Barb 3F36 5/16" Hose Barb 3F37	1/4" Hose Barb 3F46 5/16" Hose Barb 3F57	1/4" Hose Barb 3F56 5/16" Hose Barb 3F57
Hose Barb					





SCHRADER CHECK UNITS (Female Couplers)					
Available in ISO Colors					
	Oxygen	Air	Vacuum	Nitrous Oxide	
	4F13	4F23	4F33	4F43	
1/4" NPT Male					
	1/4" Hose Barb 4F16	1/4" Hose Barb 4F26	1/4" Hose Barb 4F36 5/16" Hose Barb 4F37	1/4" Hose Barb 4F46	
Hose Barb					

DISS NUT & NIPPLE COMBINATIONS

(For BELOW selected Medical Gases)



				
	Air	Vacuum	Nitrous Oxide	WAGD/Evac
	3/4"-16 Thread 5H2	3/4"-16 Thread 5H3	3/4"-16 Thread 5H4	7/8"-14 Thread 5H5
	<i>Gas Service Stamped on Nut</i>			
	3/4"-16 Thread 5HT2	3/4"-16 Thread 5HT3	3/4"-16 Thread 5HT4	7/8"-14 Thread 5HT5
	<i>Color-Coded for Gas Service</i>			










	5N21	5N31	5N41	5N51
1/8" NPT Male				
	5N23	5N33	5N43	5N53
1/4" NPT Male				
	5N26	5N36	5N46	5N56
1/4"ID Hose Barb				
		5N37		5N57
5/16"ID Hose Barb				
	<i>Nipples shown with O-rings.</i>			
	<p><i>*When choosing the gas nipple needed from above be sure to select either the Hex Nut or the Hand Tight to go with it.</i></p> <p><i>Diss Nipples are available without o-rings. Add an "X" to the part number.</i></p>			

DISS BODY ADAP'TORS

(For BELOW selected Medical Gases)







*Images are for
reference only.*

				
	Air	Vacuum	Nitrous Oxide	WAGD/Evac
 1/8" NPT Male	3/4"-16 Thread 5BA21	3/4"-16 Thread 5BA31	3/4"-16 Thread 5BA41	7/8"-14 Thread 5BA51
 1/4" NPT Male	3/4"-16 Thread 5BA23	3/4"-16 Thread 5BA33	3/4"-16 Thread 5BA43	7/8"-14 Thread 5BA53
 1/8" NPT Female	3/4"-16 Thread 5BA22	3/4"-16 Thread 5BA32	3/4"-16 Thread 5BA42	
 1/4"ID Hose Barb	3/4"-16 Thread 5BA26			
 Hose Barb w/HT	3/4"-16 Thread 1/4"ID Barb 5BA26-HT	3/4"-16 Thread 1/4"ID Barb 5BA36-HT	3/4"-16 Thread 1/4"ID Barb 5BA46-HT	7/8"-14 Thread 1/4"ID Barb 5BA56-HT
		5/16"ID Barb 5BA37-HT		5/16"ID Barb 5BA57-HT

DISS OXYGEN NUT & NIPPLE COMBINATIONS







			
Oxygen	Hex Nut	Hand Tight	Wing Nut
	9/16"-18 Thread	9/16"-18 Thread	9/16"-18 Thread
	5H1	5HT1	5WN1

5N11-1	5N11-15	3/16"ID Barb 5N15	For Hose With 1/4"-3/8"ID
		1/4"ID Barb 5N16	5N111
			
1/8"NPT Male 1" Long	1/8"NPT Male 1-1/2" Long	Hose Barb Nipple	Tapered Barb Nipple
<i>Nipples shown with O-rings.</i>			
<p><i>*When choosing the Oxygen DISS nipple needed from above be sure to select either the Hex Nut or the Hand Tight to go with it.</i></p> <p><i>Diss Nipples are available w/o o-rings, except for tapered nipple.</i></p> <p><i>Add an "X" to the part number.</i></p>			

DISS OXYGEN BODY ADAPTORS



			
NPT Male	NPT Female	Hose Barb	Barb w/HT
1/8" NPT 5BA11	1/8" NPT 5BA12	For 1/4"ID Hose	For 1/4"ID Hose
1/4" NPT 5BA13	1/4" NPT 5BA14	5BA16	5BA16-HT

DISS OXYGEN ADAPTORS & CONNECTIONS










DISS x DISS Male Coupler	DISS x DISS Female Coupler	DISS Fem x NPT Male	DISS Fem x NPT Female	Cap & Chain Assembly
5MC1	5FC1	1/8" NPT	1/8" NPT	5F1-CAP
		5F11	5F12	
		1/4" NPT	1/4" NPT	
		5F13	5F14	

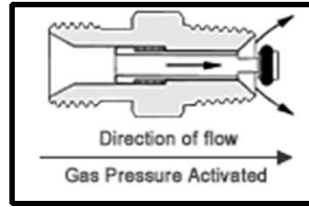
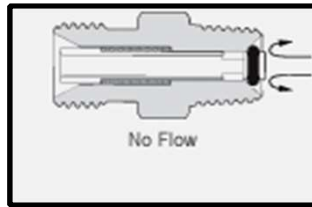
90° DISS Fem x 1/4" NPT 3/4"	90° DISS Fem x 1/8" NPT 1-1/2"	90° DISS Fem x DISS Male 3/4"	90° DISS Fem x DISS Male 1-1/2"	90° DISS Fem x DISS Male 2"
5F13-90	5F11-90	5F18-90-S	5F18-90	5F18-90-L

DISS Bulkhead 5/8-18 x 1/8" FNPT		Bulkhead 5/8-18 x 1/8" FNPT	DISS Bulkhead 5/8-18 x 1/4" ID Barb	
5BH12		BH2	5BH16	

POWER TAKE-OFF ASSEMBLIES






	 Oxygen		 Oxygen
	PT1		PT1-L
	 Air		 Air
	PT2		PT2-L
Compact Power Take-Off		Extended Power Take-Off	
Inlet: 1/8"NPT Female			
Outlets: Vertical DISS DV x Horizontal 1/8"NPT Male			
			
	1/8"NPT All Ports - Extended Version 3" Long		PA-L
	1/8"NPT All Ports - Compact Version 1.22" Long		PA-S
Power Adaptor Block Less Fittings			






DISS ONE-WAY CHECK VALVES



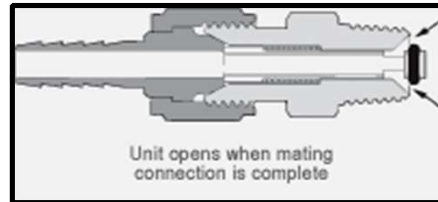
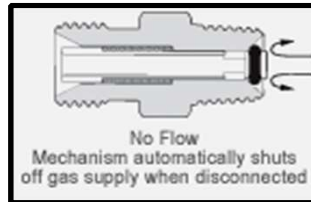
Typical Operation

*Images are for
reference only.
CV Body
Adaptors Shown*


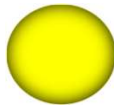
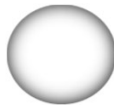







			
	Oxygen	Air	Nitrous Oxide
	9/16"-18 Thread 5BA11-CV	3/4"-16 Thread 5BA21-CV	3/4"-16 Thread 5BA41-CV
	9/16"-18 Thread 5BA13-CV	3/4"-16 Thread 5BA23-CV	3/4"-16 Thread 5BA43-CV

	One-Way Check flows from 1/4"NPT Female to 1/4"NPT Male	
	AB43-CV	
	One-Way Check flows from 1/4"NPT Male to 1/4"NPT Female	
	AB34-CV	
	One-Way Check 1/4"NPT Male x 1/4"NPT Male	
	HN33-CV	
	1/8"NPT Female x 1/8"NPT Male	
	AB21	
	1/4"NPT Female x 1/4"NPT Male	
	AB43	
	<i>* An extension adaptor is necessary when full-free extension of poppet is not obtained.</i>	

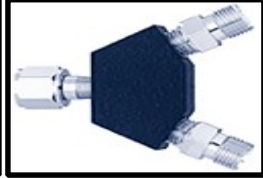
DISS DEMAND VALVE UNITS



Typical Operation

<div>Images are for reference only.</div> <div>DV Body</div> <div>Adaptors Shown</div>						
	Oxygen	Air	Vacuum	Nitrous Oxide	WAGD/Evac	
		9/16"-18 Thread	3/4"-16 Thread		3/4"-16 Thread	
	1/8"NPT Male	5BA11-DV	5BA21-DV		5BA41-DV	
		9/16"-18 Thread	3/4"-16 Thread	3/4"-16 Thread	3/4"-16 Thread	7/8"-14 Thread
	5BA13-DV	5BA23-DV	5BA33-DV	5BA43-DV	5BA53-DV	
1/4"NPT Male						
	9/16"-18 Thread	3/4"-16 Thread	3/4"-16 Thread	3/4"-16 Thread	7/8"-14 Thread	
1/4"ID Barb w/HT	5BA16-HT-DV	5BA26-HT-DV	5BA36-HT-DV	5BA46-HT-DV	5BA56-HT-DV	
			3/4"-16 Thread		7/8"-14 Thread	
5/16"ID Barb w/HT			5BA37-HT-DV		5BA57-HT-DV	
<div>*</div> 	1/8"NPT Female x 1/8"NPT Male					
	AB21					
	1/4"NPT Female x 1/4"NPT Male					
	AB43					
Extension Adaptor						
<div>* An extension adaptor is necessary when full-free extension of poppet is not obtained.</div>						

DUAL OUTLET Y-CONNECTION



Sample Style Dual Outlet Y-Connections



DISS Oxygen w/
Hex Nut Female Inlet
x DISS Male Outlets



DISS Vac. w/HT
Female Inlet x DISS DV
BA Outlets



Chemtron Male QC
Inlet x Female
Coupler Outlets



Ohmeda Male QC
Inlet x Female
Coupler Outlets



90* DISS Oxygen
w/HT Female Inlet
x DISS Male Outlets

These units can be custom made to fit specific applications.
Use the order format provided below.

Inlet Fitting:

This is the service end of the Y-Connection that is attached to the existing medical gas source. Select the opposite gender fitting to mate with the gas source. The inlet fitting should have a NPT Male thread for block adaption.

example:



Gas Supply:

 Oxygen

 Air

 Vacuum

 Nitrous Oxide

(Available Gas Supply Selections)

Y-Body:

Shown below are Y-Body units. Choose from either the standard or 90* set-up.



Standard

Oxygen
Versions
Pictured



90*

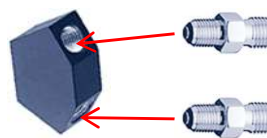
Outlet Fittings:

This end of the Y-Connection consists of two outlets. These fittings are in comparison to the existing medical gas supply fitting being adapted to.

The outlet fittings selected should have a NPT Male thread.

Demand Valve fittings are recommended for these outlets so there is only flow when mating connection is made.

example:



Custom Assembly Ordering Information

<u>Inlet Fitting</u>	<u>Gas Supply</u>	<u>Y-Body</u>	<u>Outlet Fittings</u>

DUAL OUTLET EXTENSION ADAPTOR



Sample Style Dual Outlet Connections



Ohmeda Male QC
Inlet x Female
Coupler Outlets



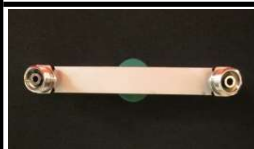
Chemtron Male QC
Inlet x Female
Coupler Outlets



90° DISS Oxygen
w/HT Female Inlet
x DISS Male Outlets



45° DISS Oxygen
w/HT Female Inlet
x DISS Male Outlets



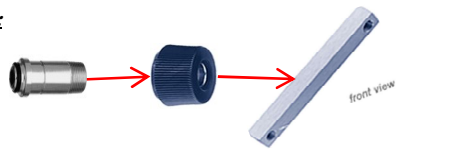
DISS Oxygen
w/HT Female Inlet
x DISS Male Outlets

These units can be custom made to fit specific applications.
Use the order format provided below.

Inlet Fitting:

This is the service end of the Dual Connection that is attached to the existing medical gas source. Select the opposite gender fitting to mate with the gas source.
The inlet fitting should have an 1/8" NPT Male thread for block adaption.


example:



Gas Supply:

 Oxygen

 Air

 Vacuum

 Nitrous Oxide

(Available Gas Supply Selections)

Body Orientation:

Available in 90°, 45° and standard set-up.

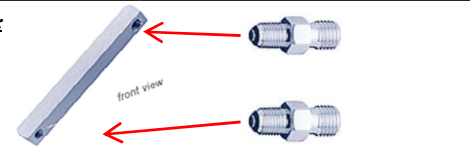


Outlet Fittings:

This end of the Dual Connection consists of two outlets. These fittings are in comparison to the existing medical gas supply fitting being adapted to.

The outlet fittings selected should have an 1/8" NPT Male thread.
Demand Valve fittings are recommended for these outlets so there is only flow when mating connection is made.

example:



Custom Assembly Ordering Information

<u>Inlet Fitting</u>	<u>Gas Supply</u>	<u>Body</u>	<u>Outlet Fittings</u>

DUAL OUTLET POLE EXTENSION ADAPTOR



These units can be custom made to fit specific applications.
Use the order format provided below.

Pole Size:

Choose clamp size to be attached to the unit for round pole mounting. (See Figure 1)

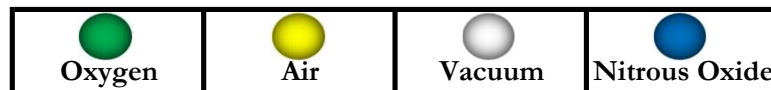
Pole Diameter Clamp Size

#25	25mm - 28mm (.98" - 1.10")
#28	28mm - 32mm (1.10" - 1.25")
#32	32mm - 36mm (1.25" - 1.38")
#36	36mm - 40mm (1.38" - 1.56")
#40	40mm - 46mm (1.56" - 1.75")
#47	47mm - 51mm (1.80" - 2")
#59	59mm - 64mm (2.31" - 2.5")

Inlet Hose Assembly:

This is the service end of the Dual Outlet Extension that is attached to the existing medical gas source. This assembly comes with a 90° swivel fitting (See Figure 2) that is attached to a standard 10' length hose. Select the opposite gender fitting to mate with the gas source.

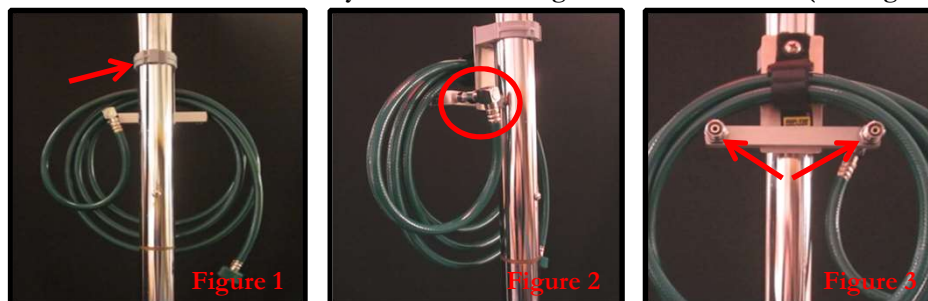
Gas Supply:



(Available Gas Supply Selections)

Outlet Fittings:

This end of the Dual Outlet Extension consists of two outlets. These fittings are in comparison to the existing medical gas supply fitting being adapted to. Demand Valve fittings are recommended for these outlets so there is only flow when mating connection is made. (See Figure 3)



Oxygen Version Pictured

<u>Clamp Size</u>	<u>Hose Inlet Fitting</u>	<u>Gas Supply</u>	<u>Outlet Fittings</u>

MEDICAL GRADE HOSE



CONDUCTIVE

Medical Grade Conductive PVC
(Meets NFPA 99 Requirements)

NON-CONDUCTIVE







Medical Grade PVC



Braid Reinforced Polyester
Outer Cover: Solid Colored PVC
Color Coded to CGA-C9 Standards
Working Pressure: 200 psi max. @70°F
Minimum Bend Radius: 3"
Working Temperature: 25°F to 150°F



Custom Hose Lengths & Assembly Ordering Information

Conductive		Non-Conductive
C1	 Oxygen	NC1
C2	 Air	NC2
C3	 Vacuum	NC3
C6	 Nitrogen	NC6
C5	 WAGD/Evac	NC5
C4	 Nitrous Oxide	NC4





*1/4" ID Hose Listed
Available in ISO colors when applicable.*





<u>Fitting -1</u>	<u>Type Hose</u>	<u>Length (Ft.)</u>	<u>Fitting -2</u>


PIPE THREAD TO BARBED HOSE ADAPTORS




	1/8"ID Hose Barb	3/16"ID Hose Barb	1/4"ID Hose Barb	5/16"ID Hose Barb
 Male NPT	1/8"NPT Male	1/8"NPT Male	1/8"NPT Male	1/8"NPT Male
	A10	A15	A16	A17
	1/4"NPT Male	1/4"NPT Male	1/4"NPT Male	1/4"NPT Male
	A30	A35	A36	A37
 Female NPT	1/8"NPT Fem	1/8"NPT Fem	1/8"NPT Fem	
	A20	A25	A26	
	1/4"NPT Fem	1/4"NPT Fem	1/4"NPT Fem	1/4"NPT Fem
	A40	A45	A46	A47

 90° Male NPT to Hose Barb	1/8"NPT Male x 1/4"ID Hose Barb	A16-90
	1/4"NPT Male x 1/4"ID Hose Barb	A36-90


 90° Female NPT to Hose Barb	1/8"NPT Female x 1/4"ID Hose Barb	A26-90
	1/8"NPT Female x 5/16"ID Hose Barb	A27-90


 90° Fem. Swivel to Hose Barb	1/8"NPT Female x 1/4"ID Hose Barb	A26-90S
	1/8"NPT Female x 5/16"ID Hose Barb	A27-90S


 Hose Splicers	Barbed for Joining 1/8"ID Hose	HS00
	Barbed for Joining 3/16"ID Hose	HS55
	Barbed for Joining 1/4"ID Hose	HS66


PIPE THREAD FITTINGS





 Female to Male Adaptors	1/8" NPT Female x 1/8" NPT Male	AB21
	1/8" NPT Female x 1/4" NPT Male	AB23
	1/4" NPT Female x 1/8" NPT Male	AB41
	1/4" NPT Female x 1/4" NPT Male	AB43

 90° Street Elbow	1/8" NPT Female x 1/8" NPT Male	EL21
	1/4" NPT Female x 1/8" NPT Male	EL41
	1/4" NPT Female x 1/4" NPT Male	EL43

 Female to Female Couplers	1/8" NPT Female	FC22
	1/4" NPT Female	FC44
	1/4" NPT Female x 1/8" NPT Female	FC42

 Male to Male Hex Nipples	1/8" NPT Male	HN11
	1/4" NPT Male	HN33
	1/4" NPT Male x 1/8" NPT Male	HN31


 45° Elbow	1/8" NPT Female x 1/8" NPT Male	EL21-45
	1/4" NPT Female x 1/4" NPT Male	EL43-45


 Extension Adaptor	1/8" NPT Female x 1/8" NPT Male - 2-1/2" Long	AB21-25
	1/4" NPT Female x 1/4" NPT Male - 3" Long	AB43-3


PIPE THREAD FITTINGS


cont.





 Street Tee	1/8"NPT All Ports	ST212
	1/4"NPT All Ports	ST434


 3-Way Tee	1/8"NPT All Ports	T2
	1/4"NPT All Ports	T4

 Branch Tee	1/8"NPT All Ports	BT212
	1/4"NPT All Ports	BT434

 Cross	1/8"NPT All Ports	CR2
	1/4"NPT All Ports	CR4

 90* Elbow	1/8"NPT All Ports	EL2
	1/4"NPT All Ports	EL4

 1/4"NPT Long Nipple	1-1/2" Long	LN3-15
	2" Long	LN3-2
	2-1/2" Long	LN3-25
	3" Long	LN3-3
	3-1/2" Long	LN3-35

 1/8"NPT Long Nipple	1-1/2" Long	LN1-15
	2" Long	LN1-2
	2-1/2" Long	LN1-25

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Billing Address: _____

Shipping Address: _____

PO# _____

or

Credit Card # _____ CVR Code: _____

Visa/MC/AMEX _____ Exp. Date: _____

Item#	Qty
_____	Qty
_____	Qty
_____	Qty
_____	Qty
_____	Qty
_____	Qty
_____	Qty

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