

## Hose Assemblies, Valves, Fittings, and Components

### SPECIFICATIONS AND ORDERING INFORMATION

#### Fittings and Components

All BeaconMedaes DISS valves, bodies, nuts and nipples are manufactured to comply with the latest edition of CGA V-5, Diameter Index Safety System (Non-interchangeable low pressure connections for medical gas applications).

#### Gas Specific DISS Valve or DISS Body

**DISS BODY:** When the DISS nut and nipple are disconnected, gas will continue to flow.

**DISS VALVE:** Contains a valve mechanism and begins to flow gas when the DISS nut and nipple are connected and stops flow when the DISS nut and nipple are disconnected.

DISS valves and valve bodies are available with 1/4 -18 NPT male threads, 1/8 -27 NPT male threads or barbed ends for installation in hose assemblies.

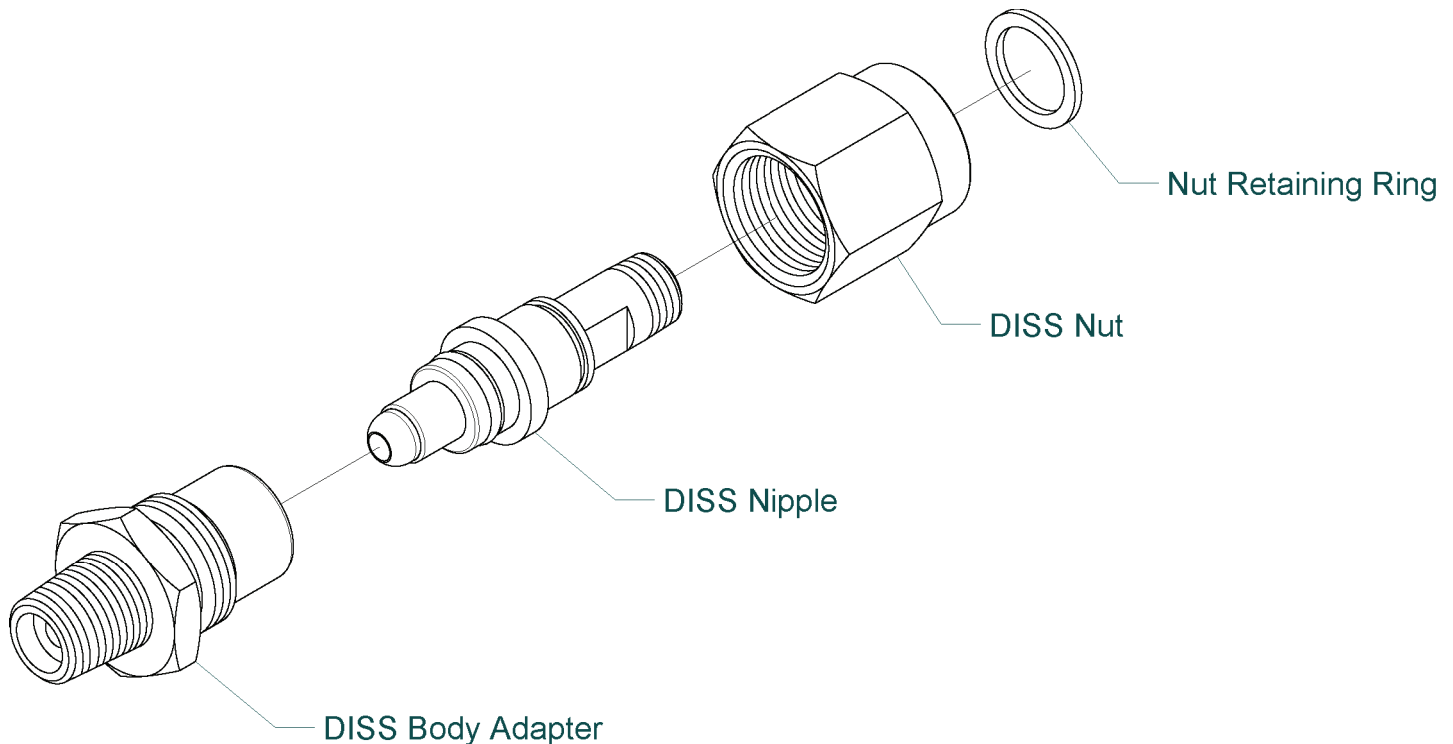
#### Gas Specific DISS Nipples

The gas specific DISS nipple mates with the gas specific DISS valve or valve body. They are supplied with O-rings where required and are available with 1/4 -18 NPT male threads, 1/8 -27 NPT male threads or barbed ends for installation in hose assemblies.

#### DISS Nut

The DISS nut is used to secure the DISS nipple to the valve or valve body. Often times the DISS nut may be used on several different gases. The valve or body and the nipple are the components to make the system gas specific.

For assistance in determining the components you may require, please call 1-888-4MEDGAS to speak with one of our specialists.



#### HOSE ASSEMBLIES

To order hose assemblies:

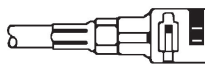
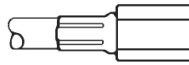

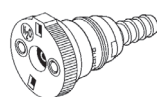
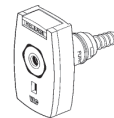
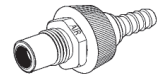
1. Select the fitting for each end of the hose assembly—one from (A) and one from (C) using the matrix shown.
2. Choose the appropriate part number according to the gas service required (B).
3. Replace the XX with a two-digit number from the chart (D). This two-digit number corresponds with the length of the hose required.

**Example:** A hose assembly for oxygen that is five feet long and uses a Geometric valve on one end and a Diameter-Index Safety System (DISS) nut and nipple on the other end would carry a part number of 139103-05

#### **NOTE:**

Maximum length is thirty feet. Unless otherwise specified, all assemblies utilize 1/4" ID hose.

**Hose Assemblies**

		<b>C</b>			
		DISS Nut and Nipple	Geometric Adaptor	Latch Key Adaptor	Pin Index Adaptor
<b>A</b>	<b>B</b>				
Schrader Quick-Connect 	O <sub>2</sub>	139180-XX			
	N <sub>2</sub> O	139181-XX			
	AIR	139182-XX			
	N <sub>2</sub>	139184-XX			
	Instrument Air	139185-XX			
DISS Nut and Nipple 	O <sub>2</sub>	132106-XX	132026-XX		132500-XX
	N <sub>2</sub> O	132107-XX	132027-XX		132501-XX
	AIR	132110-XX	132028-XX		132502-XX
	VAC 5/16"	132111-XX	132029-XX		132503-XX
	N <sub>2</sub>	132112-XX			
	Instrument Air	132117-XX			
	CO <sub>2</sub>	132118-XX			
Geometric Valve 	O <sub>2</sub>	139103-XX	139012-XX		
	N <sub>2</sub> O	139105-XX	139013-XX		
	AIR	139109-XX	139014-XX		
	VAC 5/16"	139500-XX	139501-XX		
	WAGD	139366-XX	139340-XX		
Pin Index Valve 	O <sub>2</sub>	139380-XX			139391-XX
	N <sub>2</sub> O	139381-XX			139392-XX
	AIR	139382-XX			139393-XX
	VAC 5/16"	139502-XX			139503-XX
	WAGD	139384-XX			139395-XX
Latch Key Valve 	O <sub>2</sub>	139370-XX		139396-XX	
	N <sub>2</sub> O	139371-XX		139397-XX	
	AIR	139372-XX		139398-XX	
	VAC 5/16"	139504-XX		139505-XX	
	WAGD	139374-XX		139400-XX	
DISS Male Valve 	O <sub>2</sub>	139140-XX	139016-XX		139440-XX
	N <sub>2</sub> O	139141-XX	139017-XX		139441-XX
	AIR	139142-XX	139018-XX		139442-XX
	VAC 5/16"	139506-XX	139507-XX		139443-XX
	N <sub>2</sub>	139144-XX			
	WAGD	139149-XX	139390-XX		139449-XX
	CO <sub>2</sub>	139385-XX			
Instrument Air	139518-XX				

**D**


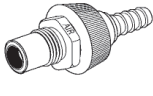
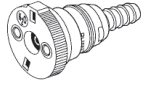
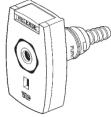
Refer to the table below for overall length of hose assembly. Use the numbers in the XX column to denote hose length.


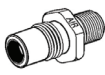
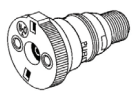

XX	Hose Length <sup>1</sup> (ft)	XX	Hose Length <sup>1</sup> (ft)	XX	Hose Length <sup>2</sup> (in)	NOTE
01	1	09	9	31	32"	1. XX numbers 01 through 30 represent hose length in feet. <b>DOES NOT INCLUDE END FITTINGS.</b> 2. XX numbers 31 through 36 represent special application sizes (ceiling drop hoses) in inches. <b>INCLUDES END FITTINGS.</b>
02	2	10	10	32	38"	
03	3	11	11	33	44"	
04	4	12	12	34	50"	
05	5	15	15	35	56"	
06	6	22	22	36	68"	
08	8	30	30			

**Valves**

The check valves below operate smoothly and are available with U.S. or international color coding. Gas-specific components are permanently indexed to prevent accidental incorrect assembly.

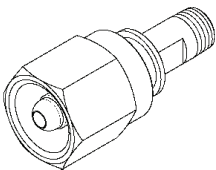
**NOTE:** Unless otherwise specified, hose barb check valves are for 1/4" ID hose.

	Geometric	DISS Valve	Pin Index	Latch Key
				
HOSE BARB CONNECTION				
Gas	Geometric	DISS	Pin Index	Latch Key
Oxygen	121200-10	121201-10	121202-10	121203-10
Nitrous Oxide	121200-11	121201-11	121202-11	121203-11
Air	121200-12	121201-12	121202-12	121203-12
Vacuum 1/4" ID Hose	121200-13	121201-13	121202-13	121203-13
Vacuum 5/16" ID Hose	121200-53	121201-53	121202-53	121203-53
Nitrogen		121201-14		
Instrument Air		121201-18		
WAGD	121200-19	121201-19	121202-19	121203-19
Carbon Dioxide CO <sub>2</sub> -O <sub>2</sub>		121201-20		
INTERNATIONAL COLOR CODING				
Oxygen	121200-15	121201-15	121202-15	121203-15
Air	121200-16	121201-16	121202-16	121203-16
Vacuum 1/4" ID Hose	121200-17	121201-17	121202-17	121203-17
Vacuum 5/16" ID Hose	121200-57	121201-57	121202-57	121203-57

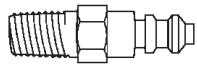
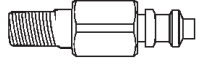
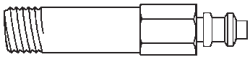
	Geometric	DISS Valve	Pin Index	Latch Key
				
1/4 - 18 NPT CONNECTION				
Gas	Geometric	DISS	Pin Index	Latch Key
Oxygen	121210-10	121211-10	121212-10	121213-10
Nitrous Oxide	121210-11	121211-11	121212-11	121213-11
Air	121210-12	121211-12	121212-12	121213-12
Vacuum	121210-13	121211-13	121212-13	121213-13
Nitrogen		121211-14		
Instrument Air		121211-18		
WAGD	121210-19	121211-19	121212-19	121213-19
Carbon Dioxide CO <sub>2</sub> -O <sub>2</sub>		121211-20		
O <sub>2</sub> -CO <sub>2</sub>		121211-22		
Helium, He-O <sub>2</sub>		121211-23		
O <sub>2</sub> -He		121211-24		
INTERNATIONAL COLOR CODING				
Oxygen	121210-10	121211-10	121212-15	121213-15
Air	121210-16	121211-12	121212-16	121213-16
Vacuum	121210-17	121211-13	121212-17	121213-17
1/8 - 27 NPT CONNECTION				
Gas	Geometric	DISS	Pin Index	Latch Key
Oxygen		121208-10		
Nitrous Oxide		121208-11		
Air		121208-12		
Nitrogen		121208-14		


**DISS Fittings**

DISS NIPPLES WITH O-RINGS TO MALE PIPE THREAD		
PART NUMBER		DESCRIPTION
NUT	NIPPLE	
825000-00	510016-00	Nipple, oxygen with o-ring to 1/8-27 NPT male
511511-00	511605-00	Nipple, nitrous oxide with o-ring to 1/4-18 NPT male
511511-00	511604-00	Nipple, air nipple with o-ring to 1/4-18 NPT male
511511-00	512070-01	Nipple, vacuum with o-ring to 1/4-18 NPT male
511511-00	511603-00	Nipple, nitrogen with o-ring to 1/4-18 NPT male
511518-00	511620-00	Nipple, instrument air with o-ring to 1/4-18 NPT male
511510-00	510079-00	Nipple, WAGD with o-ring to 1/8-27 NPT male
511511-00	511612-00	Nipple, carbon dioxide, CO <sub>2</sub> -O <sub>2</sub> mixture with o-ring to 1/4-18 NPT male
511511-00	511614-00	Nipple, O <sub>2</sub> -CO <sub>2</sub> mixture with o-ring to 1/4-18 NPT male
511511-00	511616-00	Nipple, helium, He-O <sub>2</sub> mixture with o-ring to 1/4-18 NPT male
511511-00	511617-00	Nipple, O <sub>2</sub> -He with o-ring to 1/4-18 NPT male

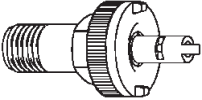
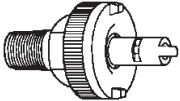
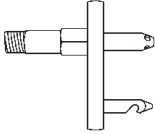

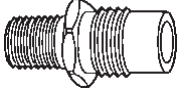
DISS NUT AND NIPPLE ASSEMBLIES WITH O-RINGS TO 1/8-27 NPT MALE THREADS		
	PART NUMBER	DESCRIPTION
	121209-10	Assembly, oxygen nut and nipple with o-ring to 1/8-27 NPT
	121209-11	Assembly, nitrous oxide nut and nipple with o-ring to 1/8-27 NPT
	121209-12	Assembly, air nut and nipple with o-ring to 1/8-27 NPT
	121209-13	Assembly, vacuum nut and nipple with o-ring to 1/8-27 NPT
	121209-14	Assembly, nitrogen nut and nipple with o-ring to 1/8-27 NPT
	121209-19	Assembly, WAGD nut and nipple with o-ring to 1/8-27 NPT
	121209-20	Assembly, carbon dioxide nut and nipple with o-ring to 1/8-27 NPT

**Quick Connect Fittings**

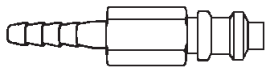
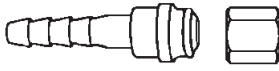
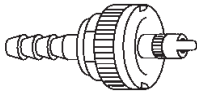
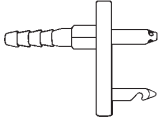
GEOMETRIC QUICK-CONNECT ADAPTORS WITH PIPE THREADS		
	PART NUMBER	DESCRIPTION
	512013-00	Adapter, oxygen, 1-3/4" long with 1/4-18 NPT male thread
	512001-00	Adapter, nitrous oxide, with 1/4-18 NPT male thread
	210636-00	Adapter, air, 1-3/4" long, non-swivel, with 1/4-18 NPT male thread
	512003-00	Adapter, vacuum, with 1/4-18 NPT male thread
	512092-00	Adapter, oxygen, with 1/8-27 NPT male thread
	512094-00	Adapter, vacuum, with 1/8-27 NPT male thread
	512542-00	Adapter, oxygen, 2-15/16" long, with 1/4-18 NPT male thread
	230338-00	Adapter, air, 2-15/16" long, with 1/4-18 NPT male thread
	230348-00	Adapter, WAGD, 2-15/16" long, with 1/4-18 NPT male thread


GEOMETRIC QUICK-CONNECT ADAPTORS WITH DISS THREADS		
	PART NUMBER	DESCRIPTION
	512019-00	Adapter, oxygen, with 9/16-18 DISS male thread

**Quick-Connect Fittings (continued)**


PIN INDEX QUICK-CONNECT ADAPTORS		
	PART NUMBER	DESCRIPTION
	230625-00	Adapter, oxygen, with 1/4-18 NPT male thread
	230624-00	Adapter, oxygen International, with 1/4-18 NPT male thread
	230627-00	Adapter, air, with 1/4-18 NPT male thread
	230628-00	Adapter, vacuum, with 1/4-18 NPT male thread
	231025-00	Adapter, oxygen, with 1/8-27 NPT male thread
	231027-00	Adapter, air, with 1/8-27 NPT male thread
	231026-00	Adapter, air International, with 1/8-27 NPT male thread
	231029-00	Adapter, vacuum, with 1/8-27 NPT male thread
LATCH KEY QUICK-CONNECT ADAPTORS		
	PART NUMBER	DESCRIPTION
	231030-00	Adapter, oxygen, round striker, with 1/4-18 NPT male thread
	231032-00	Adapter, air, rectangular striker, with 1/4-18 NPT male thread
	231034-00	Adapter, vacuum, rectangular striker, with 1/4-18 NPT male thread
DISS BODY ADAPTORS		
	PART NUMBER	DESCRIPTION
	513001-00	Adapter, oxygen, with 1/4-18 NPT male thread
	511554-00	Adapter, nitrogen, with 1/4-18 NPT male thread
	520287-00	Adapter, vacuum, with 1/4-18 NPT male thread
	520395-00	Adapter, nitrous oxide, with 1/4-18 NPT male thread
	520396-00	Adapter, air, with 1/4-18 NPT male thread
	515606-00	Adapter, WAGD, with 1/4-18 NPT male thread
	511558-00	Adapter, instrument air, with 1/4-18 NPT male thread
	520288-00	Adapter, CO <sub>2</sub> and CO <sub>2</sub> -O <sub>2</sub> mixtures, with 1/4-18 NPT male thread

**Hose Barb Adapters, Hose Retractors, Bulk Hoses, and Ferrules**

	Geometric		DISS		Pin Index	Latch Key
						
HOSE BARB ADAPTERS FOR 1/4" ID HOSS (unless otherwise specified)						
Gas	Geometric with Ferrule	Geometric	DISS		Pin Index	Latch Key
			Nipple w/O-ring	Nut		
Oxygen	210221-00	512007-00	512076-00	825000-00	231016-00	232114-00
Nitrous Oxide	210220-00	512018-00	511611-00	511511-00	232129-00	232115-00
Air	210222-00	230339-00	511609-00	511511-00	231018-00	232116-0
Vacuum 1/4" ID Hose	210223-00	512009-00	512077-00	511511-00	231017-00	232117-00
Vacuum 5/16" ID Hose		512115-00	134157-00	511511-00	4107 6522 71	4107 6536 50
Nitrogen			511610-00	511511-00		
Instrument Air			511621-00	511518-00		
WAGD 1/4" ID Hose		230350-00	511515-00	511510-00	232139-00	232118-00
WAGD 5-16" ID Hose		230349-00	511606-00	511510-00	4107 5636 52	4107 6536 51
Carbon Dioxide			511607-00	511511-00		

HOSE RETRACTOR		
Heavy Duty Retractor for all Pressure and Vacuum service • Series B DISS, • DiamondCare DISS • Gemini DISS	4107 2234 82	

BULK HOSE 1/4" ID (SOLD BY 250 FT. ROLL)		
Gas Service	Color Code	Part Number
Oxygen	Green	4107 6565 13
Nitrous Oxide	Blue	4107 6565 12
Air	Yellow	4107 6565 14
WAGD	Purple	4107 6565 10
Nitrogen	Black	4107 6565 11
All Others	Black	4107 6565 11
5/16" ID		
Vacuum	White	4107 6565 08
Vacuum ISO	Yellow	4107 6565 09

FERRULES		
For 1/4" ID Hose (pressure)	355021-00	
For 5/16" ID Hose (vacuum)	405000-00	
Ferrule Hand Crimping Tool	995508-00	

**Fittings and Components**

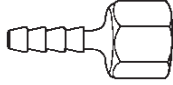
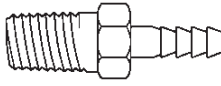
Unless otherwise indicated, the fittings and components listed in this catalog are designed for low pressure medical gas systems where pressure does not exceed 200 psig. In addition to fittings and components that utilize geometric shape indexing and DISS connections, a complete offering of general purpose fittings is also available.

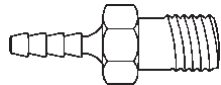
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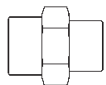
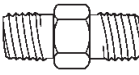
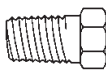

Common threads, crimp or slip-fit connections permit the assembly of components which may permit the cross-indexing of services, unanticipated performance, poor flow, and excessive pressure drops. The user is cautioned to consider such factors when using these components.

BeaconMedaes fittings and components are medical-grade fittings, carefully machined to precise dimensions, and offer outstanding durability.

**Fittings and Couplings**

HOSE/TUBING FITTINGS		
	PART NUMBER	DESCRIPTION
	512012-00	Connector, hose barb for 1/4" ID hose, to 1/4-18 NPT female thread
	512506-00	Connector, hose barb for 5/16" ID hose, to 1/4-18 NPT female thread
	512508-00	Connector, hose barb for 5/16" ID hose, to 1/4-18 NPT male thread
	515002-00	Connector, hose barb for 1/4" ID hose, to 1/4-18 NPT male thread

DISS BODY WITH HOSE BARB		
	PART NUMBER	DESCRIPTION
	520174-00	Adapter, oxygen, for 1/4" ID hose
	525300-53	Adapter, vacuum, large bore, for 5/16" ID hose
	525298-00	Adapter, nitrous oxide, for 1/4" ID hose
	525299-00	Adapter, air, for 1/4" ID hose
	525300-00	Adapter, vacuum, for 1/4" ID hose
	525302-00	Adapter, nitrogen, for 1/4" ID hose
	525303-00	Adapter, WAGD, for 1/4" ID hose
	525301-00	Adapter, carbon dioxide, for 1/4" ID hose

COUPLINGS AND BUSHINGS		
	PART NUMBER	DESCRIPTION
	835020-00	Coupling, 1/4-18 NPT female each end
	513011-00	Coupling, 1/4-18 NPT female to 1/8-27 NPT female
	513003-00	Coupling, 1/4-18 NPT male thread x 1/4-18 NPT male thread
	835000-00	Bushing, 1/4-18 NPT male to 1/8-27 NPT female
	835001-00	Coupling, 1/4-18 NPT female thread x 1/8-27 NPT male