

Flexible Gas Hose, Fittings and Accessories



KONEX

Industrial Gas Hoses
Specialty Gas Hoses
Liquid Cylinder Hoses
CO₂ Transfer Hose
Tube Trailer Hose
Bulk Cryogenic Hose
Quick Connects
CGA & Pipe Fittings



Flexible Gas Hose, Fittings and Accessories

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PTFE LINED STAINLESS STEEL GAS PIGTAILS

KONEX offers the compressed gas industry the most complete high quality line of PTFE lined high pressure hoses and pigtails. All KONEX hoses are designed with custom machined end fittings, stainless steel locking collars and 304 stainless reinforcing braid for a highly durable assembly with excellent flexibility. Each hose assembly is 100% pressure tested to 1-1/2 times the rated working pressure, and all hoses surpass CGA E-9 requirements.

STANDARD SERIES SINGLE BRAID – 3000PSI

CF, CM & CMF Series – Light and flexible value hose for most standard gas services.

*3000PSI maximum working pressure, 4500PSI test pressure, 12,000PSI minimum burst pressure

Part Number	with Armor	1/4" NPT	1/4" NPT
CF-XX	CF-XXAR	Female	Female
CM-XX	CM-XXAR	Male	Male
CMF-XX	CM-FXXAR	Male	Female

Replace "XX" with length in inches. Example: CF24 equals a 24" overall length hose

POST SINTERED DOUBLE BRAIDED – 3600PSI

CFP Series – The gas industries most popular post sintered hose reduces permeation by approximately 75% and is equipped with double spiral braid for 3600PSI working pressure.

*3600PSI maximum working pressure, 5400PSI test pressure, 14,400 minimum burst pressure

Part Number	with Armor	1/4" NPT	1/4" NPT
CFP-XX	CFP-XXAR	Female	Female
CMP-XX	CMP-XXAR	Male	Male
CMFP-XX	CMFP-XXAR	Male	Female

Replace "XX" with length in inches. Example: CFP24 equals a 24" overall length hose

ULTRA HIGH PRESSURE DOUBLE BRAIDED – 6000PSI

CFHP Series – These hoses are KONEX highest pressure rating hoses carrying a rating of 6000PSI due to the extra heavy stainless steel braiding and double spiral wrap reinforcing.

*6000PSI maximum working pressure, 9,00PSI test pressure, 24,000 minimum burst pressure

Part Number	with Armor	1/4" NPT	1/4" NPT
CFHP-XX	CFHP-XXAR	Female	Female
CMHP-XX	CMHP-XXAR	Male	Male
CMFHP-XX	CMFHP-XXAR	Male	Female

Replace "XX" with length in inches. Example: CFHP24 equals a 24" overall length hose

All hoses are cleaned and tagged for oxygen service per CGA G-4.1 and manufactured CGA E9 standards. **(Note: CFHP Series are not oxygen cleaned unless requested)** All pigtails are constructed with series 300 stainless steel reinforcing and stainless steel crimped collars.

Style	Avg. I.D. (In)	Avg. O.D. (In) w/armor w/o armor	Max W.P. (PSI)	Min. Burst (PSI)	Min. Bend Radius (In) w/armor w/o armor	Weight (Lbs/Ft) w/armor w/o armor	*Temperature Rating	Liner Conductive (Yes/No)
CF, CM, CMF	0.25	0.55 0.375	3,000	12,000	3.0 3.0	0.277 0.098	-65° to 450°	No
CFP, CMP, CMFP	0.25	0.64 0.420	3,600	14,400	3.0 3.0	0.300 0.136	-65° to 450°	No
CFHP, CMFHP, CMHP	0.229	0.69 0.430	6,000	24,000	5.0 3.0	0.454 0.240	-65° to 400°	Yes

* Based on intermittent service

SPECIALTY AND HIGH PURITY GAS HOSES

KONEX offers the specialty gas industry hoses dedicated for use with smaller molecule gases offering a range from minimum permeation 77% less PTFE to zero permeation for the most critical specialty gas requirements. All KONEX hoses are designed with custom machined end fittings, stainless steel locking collars and 304 stainless reinforcing braid for a highly durable assembly with excellent flexibility. Each hose assembly is 100% pressure tested to 1-1/2 times the rated working pressure, and all hoses surpass CGA E-9 requirements.

ETFE LINED STAINLESS STEEL BRAIDED – 3000PSI

CFTZ Series – Features flexibility and reduced permeation with 77% lower effusion than standard PTFE hoses. The Tefzel smooth bore liner is designed for use with small molecule gases a fraction of the cost of welded all metal stainless steel hoses. (Not for use in Oxygen).

- 3000PSI maximum working pressure, 4500PSI test pressure, 12,000PSI minimum burst pressure

Part Number	with Armor	1/4" NPT	1/4" NPT
CFTZ-XX	CFTZ-XXAR	Female	Female
CMTZ-XX	CMTZ-XXAR	Male	Male
CMFTZ-XX	CMFTZ-XXAR	Male	Female

Replace "XX" with length in inches. Example: CFTZ24 equals a 24" overall length hose

ALL 316SS METAL CORE STAINLESS STEEL BRAIDED – 3850PSI

CFSS Series – KONEX ultra flexible stainless steel core hoses are the ultimate product for demanding, high end specialty gas applications. The hoses are designed with annular close-corrugation 316 stainless steel core, ensuring high-purity, zero effusion, and excellent flexibility combined with two stainless steel braids for high working pressure "ZERO PERMEATION".

- 3850PSI maximum working pressure, 4800PSI test pressure, 15,400PSI minimum burst pressure

Part Number	with Armor	1/4" NPT	1/4" NPT
CFSS-XX	CFSS-XXAR	Female	Female
CMSS-XX	CMSS-XXAR	Male	Male
CMFSS-XX	CMFSS-XXAR	Male	Female

Replace "XX" with length in inches. Example: CFSS24 equals a 24" overall length hose

ALL MONEL CORE STAINLESS STEEL BRAIDED – 3850PSI

CFMONEL Series – KONEX ultra flexible Monel inner core hoses are the premium product for high purity corrosive gas applications featuring zero effusion. The hoses are designed with annular close-corrugation Monel core, ensuring high-purity, zero effusion, and excellent flexibility combined with two stainless steel braids for high working pressure. End fittings are machined from Monel.

- 3850PSI maximum working pressure, 4500PSI test pressure, 15,400PSI minimum burst pressure

Part Number	with Armor	1/4" NPT	1/4" NPT
CFMONEL-XX	CFMONEL-XXAR	Female	Female
CMMONEL-XX	CMMONEL-XXAR	Male	Male
CMFMONEL-XX	CMFMONEL-XXAR	Male	Female

Replace "XX" with length in inches. Example: CFMONEL24 equals a 24" overall length hose

All hoses are cleaned and tagged for oxygen service per CGA G-4.1 and manufactured CGA E9 standards. **(Note: Exception of CFTZ Series)** All pigtailed are constructed with series 300 stainless steel reinforcing and stainless steel crimped collars.

CFTZ SERIES

Part #	Nom. Hose Size	Avg. I.D. (In)	Avg. O.D. (In)	Operating Pressure (PSI)	Burst Pressure (PSI)	Bend Radius (In)	Weight (Lbs/Ft)	Max Cont. Lengths (Feet)
CFTZ	5/16"	0.250	0.375	3000	12,000	3.0	0.08	500

CFSS SERIES

Part#	Hose Size (In)	No. of Braids	O.D. w/o armor (In)	O.D. w/ armor (In)	Max WP (PSIG)	Burst Pressure (PSIG)	Mas Flow Rate (Gas)	Max Flow Rate (Liquid)	Min. Dynamic Blend w/ armor (In)	Min. Dynamic Blend w/o armor (In)
CFSS	1/4	2	0.640	0.810	3,850	15,400	240 ft3/ hr	120 ft3/ hr	6.25	4.00

CFMONEL SERIES

Part #	Hose Size (In)	No. of Braids	O.D. w/o armor (In)	O.D. w/armor (In)	Max WP (PSIG)	Burst Pressure (PSI)	Min. Dynamic Bend Radius w/armor (In)
CFMONEL	1/4	2	0.65	0.79	3,000	12,000	10.0

KONEX offers the compressed gas industry various tube trailer hoses to meet all gas application requirements. All KONEX hoses are designed with custom machined end fittings, stainless steel locking collars and 304 stainless reinforcing braid for a highly durable assembly with excellent flexibility. Each hose assembly is 100% pressure tested to 1-1/2 times the rated working pressure, and all hoses surpass CGA E-9 requirements.



PTFL LINED 5000PSIG (For flow rates ABOVE 150 ft / sec)

TSHP Series – is KONEX most popular product and works well with oxygen and inert gases. TSHP is constructed with a smooth-bore PTFE liner for even product flow and low permeation. The high density steel braids provide the highest working pressure possible for tube trailer service. The optional stainless steel armor casing ensures safety by offering anti-kink characteristics and protecting the stainless steel braid.

- 5000PSI maximum working pressure, 9000PSI test pressure, 20,000PSI minimum burst pressure
Temperature: -65F to +450F



Part Number	with Armor	1/2" NPT	1/2"NPT	Length	Oxygen Clean
8TSHP-24-24-120	8TSHP-24-24-120-AR	Female	Female	10'	No
8TSHP-24-24-120-CCB	8TSHP-24-24-120-AR-CCB	Female	Female	10'	YES
8TSHP-21-21-120	8TSHP-21-21-120-AR	Male	Male	10'	No
8TSHP-21-21-120-CCB	8TSHP-21-21-120-AR-CCB	Male	Male	10'	YES
8TSHP-24-21-120	8TSHP-24-21-120-AR	Female	Male	10'	No
8TSHP-24-21-120-CCB	8TSHP-24-21-120-AR-CCB	Female	Male	10'	YES

Note: Standard hoses are 10 feet. Hoses are available in increments of 1 foot up to 35 total feet.



STAINLESS STEEL INNERCORE 3700PSIG (For flow rates BELOW 150 ft / sec)

SF32HP Series – is KONEX zero permeation, all welded stainless steel inner core hose. This tube trailer hose is perfect for specialty gas tube trailer transfill applications of small molecule gases such as hydrogen and helium below 150 ft sec. The optional stainless steel armor casing ensures safety by offering anti-kink characteristics and protecting the stainless steel braid.

- 3700PSI maximum working pressure, 5550PSI test pressure, 14,800PSI minimum burst pressure
Temperature: Cryogenic to +1500F.



Part Number	with Armor	1/2" NPT	1/2"NPT	Length	Oxygen Clean
SF32HP-24-24-120	SF32HP-24-24-120-AR	Female	Female	10'	No
SF32HP-24-24-120-CCB	SF32HP-24-24-120-AR-CCB	Female	Female	10'	YES
SF32HP-21-21-120	SF32HP-21-21-120-AR	Male	Male	10'	No
SF32HP-21-21-120-CCB	SF32HP-21-21-120-AR-CCB	Male	Male	10'	YES
SF32HP-24-21-120	SF32HP-24-21-120-AR	Female	Male	10'	No
SF32HP-24-21-120-CCB	SF32HP-24-21-120-AR-CCB	Female	Male	10'	YES

Note: Standard hoses are 10 feet. Hoses are available in increments of 1 foot up to 35 total feet.

Style	Nominal Size	OD	OD with armor	Braids	Bend Radius	Working PSI	Burst PSI
8TSHP	1/2"	.615"	.86"	2	3.0"	5000	20,000
SF32HP	1/2"	.94"	1.25"	2	5.7"	3700	14,800

CRYOGENIC LIQUID CYLINDER HOSE

KONEX offers two levels of quality liquid cylinder hoses to meet your specific requirements whether being value or performance. Each hose assembly is leak tested to 120 PSIG, and all hoses surpass the most stringent industry qualifications.



ULTRAFLEX – ULTRA FLEXIBLE LIQUID CYLINDER HOSE 1160PSI

ULTRAFLEX by KONEX is the industry's most flexible and durable hose for use with cryogenic liquid cylinders. The unique internal disymmetrical omega configuration results in ease of bending and cycle-life of 50,000 plus per ISO 10380 standards. The optional stainless steel armor casing ensures safety by offering anti-kink characteristics and protecting the stainless steel braid.

- 1160PSI maximum working pressure
Temperature: -450F to +1500F.

INERT GAS SERVICE

Part Number	with Armor	ENDS	Length
NASFF-48	NASFF-48AR	CGA295, 1/2" FLARE	48"
NASFF-72	NASFF-72AR	CGA295, 1/2" FLARE	72"

OXYGEN SERVICE

Part Number	with Armor	ENDS	Length
OSFF-48	OSFF-48AR	CGA440, 5/8" FLARE	48"
OSFF-72	OSFF-72AR	CGA440, 5/8" FLARE	72"

Note: Liquid cylinder hoses may be ordered in increments of 1 foot. Specify length in inches at time of order. National pipe thread ends can be ordered special.



SUPERFLEX –LIQUID CYLINDER HOSE 1330PSI

SUPERFLEX by KONEX are dependable, rugged, and economical for most liquid cylinder applications. The optional stainless steel armor casing ensures safety by offering anti-kink characteristics and protecting the stainless steel braid.

- 1330PSI maximum working pressure
Temperature: -450F to +1500F.

INERT GAS SERVICE

Part Number	with Armor	ENDS	Length
NASFF-48-E	NASFF-48AR-E	CGA295, 1/2" FLARE	48"
NASFF-72-E	NASFF-72AR-E	CGA295, 1/2" FLARE	72"

OXYGEN SERVICE

Part Number	with Armor	ENDS	Length
OSFF-48-E	OSFF-48AR-E	CGA440, 5/8" FLARE	48"
OSFF-72-E	OSFF-72AR-E	CGA440, 5/8" FLARE	72"

Note: Liquid cylinder hoses may be ordered in increments of 1 foot. Specify length in inches at time of order. National pipe thread ends can be ordered special.

ULTRAFLEX SPECIFICATIONS

Hose Size (In)	No. of Braids	O.D. w/o armor (In)	O.D. w/armor (In)	Max WP (PSIG)	Min. Static Bend Radius w/armor (In)	Wgt. Per Ft. w/o armor (Lbs)	Wgt. Per Ft. w/armor (Lbs)
1/2	1	0.79	0.94	1,160	4.9	0.25	0.65

Note: Ultraflex hose is also available in T316 stainless steel

SUPERFLEX SPECIFICATIONS

Hose Size (In)	No. of Braids	O.D. w/o armor (In)	O.D. w/armor (In)	Max WP (PSIG)	Min. Static Bend Radius w/armor (In)	Wgt. Per Ft. w/o armor (Lbs)	Wgt. Per Ft. w/armor (Lbs)
1/2	1	0.89	1.08	1,330	6.0	0.34	0.61

Note: Superflex hose is also available in T316 stainless steel

45° Degree Adapter

Part # QFC-NAS-45
CGA295 Inert Gas Nitrogen / Argon
Part # QFC-OS-45
CGA440 Oxygen service



Straight Adapter

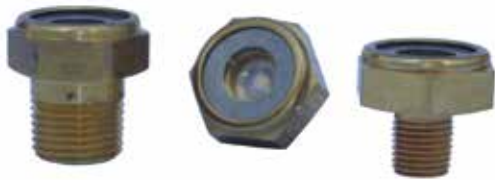
Part # QFC-NAS-180
CGA295 Inert Gas Nitrogen / Argon
Part # QFC-OS-180
CGA440 Oxygen service

90° Degree Adapter

Part # QFC-NAS-90
CGA295 Inert Gas Nitrogen / Argon
Part # QFC-OS-90
CGA440 Oxygen service

CRYOQUICK Spin-on Adapters

Part Number	CGA Connection	Angle	Gas Service
QFC-NAS-45	CGA295, 1/2" Flare	45°	Inert gas service
QFC-OS-45	CGA440, 5/8" Flare	45°	Oxygen gas service
QFC-NAS-90	CGA295, 1/2" Flare	90°	Inert gas service
QFC-OS-90	CGA440, 5/8" Flare	90°	Oxygen gas service
QFC-NAS-180	CGA295, 1/2" Flare	180°	Inert gas service
QFC-OS-180	CGA440, 5/8" Flare	180°	Oxygen service



Liquid Cylinder Burst Discs

Part Number	Container Description	Inlet	Burst Disc
OTU-14-200	22 to 100PSI	1/4" M.NPT	200PSI
OTU-14-400	235PSI	1/4" M.NPT	400PSI
OUT-14-600	350PSI	1/4" M.NPT	600PSI



Lance Adapter

Part # LAN-NAS-1
CGA295 Inert Gas Nitrogen / Argon
Part # LAN-OS-1
CGA440 Oxygen service

Elbow Adapter

Part # EL-NAS-90
CGA295 Inert Gas Nitrogen / Argon
Part # EL-OS-90
CGA440 Oxygen service

Liquid Cylinder Hose Adapters

Part Number	CGA Connection	Angle	Gas Service
LAN-NAS-1	CGA295, 1/2" Flare	180°	Inert gas service
LAN-OS-1	CGA440, 5/8" Flare	180°	Oxygen gas service
EL-NAS-90	CGA295, 1/2" Flare	90°	Inert gas service
EL-OS-90	CGA440, 5/8" Flare	90°	Oxygen gas service

Safety Relief Adapter

Part # SRV-NAS-1V
CGA295 Inert Gas Nitrogen / Argon with vent valve
Part # SRV-OS-1V
CGA440 Oxygen service with vent valve



Relief valve not included

Liquid Cylinder Safety Relief Connector

Part Number	CGA Connection	Relief	Gas Service
SRV-NAS-1	CGA295, 1/2" Flare	1/4" F	Inert gas service
SRV-OS-1	CGA440, 5/8" Flare	1/4" F	Oxygen gas service

Safety Tee

Part # ST-295-xxx
CGA295 Inert Gas Nitrogen / Argon
Part # ST-440-xxx
CGA440 Oxygen service



Liquid Cylinder Safety Tee

Part Number	CGA Connection	Gas Service
ST-295-XXX	Safety tee	CGA295, 1/2" Flare, Inert gas
ST-440-XXX	Safety tee	CGA440, 5/8" Flare, Oxygen

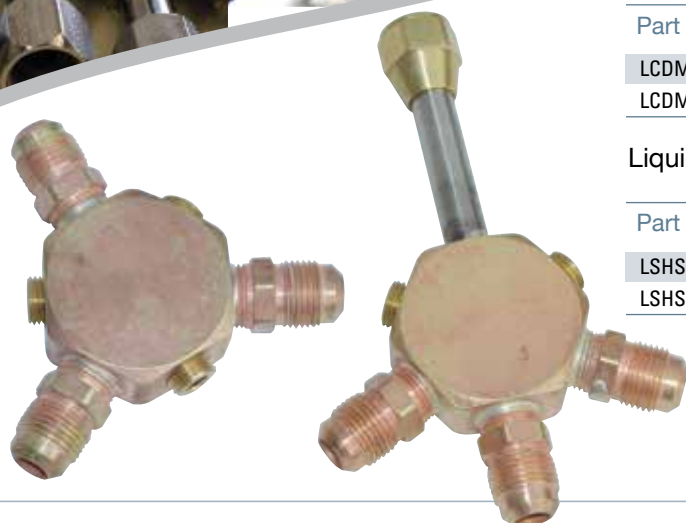


Liquid Cylinder Hose 5 Port Manifolds

Part Number	Description	GasService
LCDM-295	Distribution manifold	CGA295, 1/2" Flare, Inert gas
LCDM-440	Distribution manifold	CGA440, 5/8" Flare, Oxygen

Liquid Cylinder Hose Splitters

Part Number	Description	GasService
LSHS-295	Hose splitter	CGA295, 1/2" Flare, Inert gas
LSHS-440	Hose splitter	CGA440, 5/8" Flare, Oxygen



Liquid Cylinder Burst Discs

Part Number	Container Description	Inlet	Burst Disc
OTU-14-200	22 to 100PSI	1/4" M.NPT	200PSI
OTU-14-400	235PSI	1/4" M.NPT	400PSI
OUT-14-600	350PSI	1.4" M.NPT	600PSI



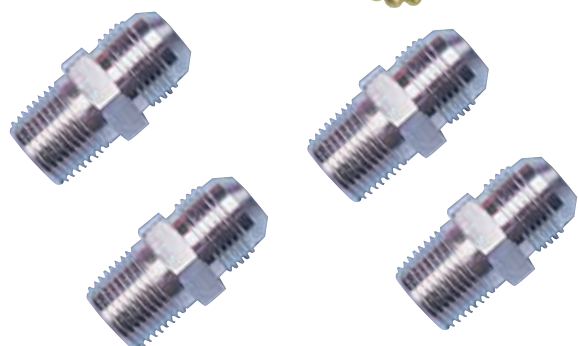
Phase Separators

Part Number	Description	Dimensions
PS-18-A	Phase separator	1 1/4" x 1/2" OD (1/8" F.NPT)
PS-38-A	Phase separator	1 1/4" x 1" OD (3/8" F.NPT)
PS-38-B	Phase separator	2 3/4" x 1 3/8" OD (3/8" F.NPT)
PS-12-B	Phase separator	2 3/4" x 1 3/8" OD (1/2" F.NPT)



Dust Plugs & Caps for Cryogenic Hoses

Part Number	Description	CGA	Gas Service
DP295M	Dust Plug	295	1/2" Flare (M), Inert
DP440M	Dust plug	440	5/8" Flare (M), Oxy
DC295F	Dust cap	295	1/2" Flare (F), Inert
DC440F	Dust cap	440	5/8" Flare (F), Oxy



Cryogenic Brass CGA Flare Adapters x NPT

Part Number	CGA End	Male End	Description
FA-2952	295, 1/2" Flare	1/4" NPT	Argon, Nitrogen
FA-2953	295, 1/2" Flare	3/8" NPT	Argon, Nitrogen
FA-2954	295, 1/2" Flare	1/2" NPT	Argon, Nitrogen
FA4402	440, 5/8" Flare	1/4" NPT	Oxygen
FA4403	440, 5/8" Flare	3/8" NPT	Oxygen
FA4404	440, 5/8" Flare	1/2" NPT	Oxygen
FA4405	440, 5/8" Flare	3/4" NPT	Oxygen

KONEX offers the compressed gas industry the best quality bulk cryogenic hoses designed specifically for loading and unloading cryogenic vessels. All KONEX hoses are designed with custom machined end fittings. Each hose assembly is 100% leak tested.

SF21 Series – The KONEX “Superflex” is a durable all stainless steel hose for the bulk transfer of cryogenic liquid. Hoses are available in 1 inch, 1.5 inch and 2 inch diameters. Each assembly is constructed with a 321 stainless steel corrugated inner core, a 304 stainless steel single braid, and 304 stainless steel female NPT threaded coupling each end to accommodate an appropriate CGA threaded fitting. All hoses are supplied standard with 18” casing cuffs. Assemblies can be supplied with brazed on CGA fittings as a special order.

- 518 to 571 PSI working pressure, 2140 to 2284 Maximum Burst Pressure
- Temperature: Cryogenic to +1500F



1" ID BULK HOSE -571PSI WORKING PRESSURE

Part Number	Ends	Service	Length
SF21-100-24-21-A18-192	SS 1" FNPT x MNPT	Inert	16 feet
SF21-100-24-21-A18-192-CCB	SS 1" FNPT x MNPT	Oxygen	16 feet

1.5" ID BULK HOSE -472PSI WORKING PRESSURE

Part Number	Ends	Service	Length
SF21-150-24-24-A18-168	SS 1.5" FNPT	Inert	14 feet
SF21-150-24-24-A18-168-CCB	SS 1.5" FNPT	Oxygen	14 feet

2" ID BULK HOSE -516PSI WORKING PRESSURE

Part Number	Ends	Service	Length
SF21-200-24-24-A18-192	SS 2" FNPT	Inert	14 feet
SF21-200-24-24-A18-192-CCB	SS 2" FNPT	Oxygen	14 feet

Options:

- No casing cuffs – Remove the A18 from the part number.
- Double braiding – Change SF21 to SF22.
- Full Armor Casing – Add AR to end of part number.

Nominal Hose I.D.	O.D. Without Armor	O.D. With Armor	No. of Braids	Dynamic Bend Radius	Working Pressure	Burst Pressure
1-1/2"	2.10"	2.50"	1	11.0"	472 PSIG	2120 PSIG
2"	2.74"	3.19"	1	13.0"	516 PSIG	2140 PSIG



BULK CRYOGENIC HOSE FITTINGS

Fitting Size	Service	CGA Designation	Part #		Part # Tail Plug
			Nut	Filling Sleeve	
1-1/2"	Nitrogen	NI-150	590-000-15	ASK - 40 - 0003	590 - 001 - 15
2"	Nitrogen	NI-250	590-002-25	ASK - 40 - 0050	540 - 006 - 25
1-1/2"	Argon	AR-150	580-002-15	ASK - 40 - 0003	580 - 006 - 15
2"	Argon	AR-250	580-000-25	ASK - 40 - 0050	580 - 001 - 25
1-1/2"	Oxygen	OX-150	540-000-15	ASK - 40 - 0003	540 - 001 - 15
2"	Oxygen	OX-200	540-010-20	ASK - 40 - 0020	540 - 013 - 20

LIQUID AND VAPOR BULK CO₂ TRANSFER HOSE

KONEX offers the compressed gas industry “Blue Arctic” hose specifically designed for the transfer of liquid and gaseous CO₂. The CO₂ transfer hose is engineered for optimum performance and years of service life under the most demanding conditions. All KONEX hoses are designed with custom machined end fittings. Each hose assembly is 100% pressure tested.

Series 2520FOA – The KONEX “Blue Arctic” is a durable rubber hose providing lighter weight and more flexible alternative to metals hoses. The specially formulated elastomer compound is compatible with CO₂ and low temperatures to -65F. Hose assemblies are available up to 100’. Special heavy duty brass bar stock female NPT end fittings are attached with high pressure crimp collars that interlock with brass fittings. Blue Arctic hose meets the requirements of CGA G-6.6 and meets FDA CFR 177.2600.

- 450PSI operating pressure
Temperature: -65F to +180F operating range



1" ID BLUE ARCTIC HOSE – 450PSI Working Pressure

Part Number	Ends	Service	Length
2520FOA-100-14-14-240	Brass 1" FNPT	Vapor or Liquid	Up to 100'
2520FOA-100-14-14-240-CGA	1" CGA E/E	Vapor or Liquid	Up to 100'

1.5" ID BLUE ARCTIC HOSE – 450PSI Working Pressure

Part Number	Ends	Service	Length
2520FOA-150-14-14-240	Brass 1.5" FNPT	Vapor or Liquid	20 feet
2520FOA-150-14-14-240-CGA	1.5" CGA E/E	Vapor or Liquid	20 feet

2" ID BLUE ARCTIC HOSE – 450PSI Working Pressure

Part Number	Ends	Service	Length
2520FOA-200-14-14-240	Brass 2" FNPT	Vapor or Liquid	20 feet
2520FOA-200-14-14-240-CGA	2" CGA E/E	Vapor or Liquid	20 feet

Note: CGA ends are supplied with thread on bulk fittings.



BLUE ARCTIC SPECIFICATIONS

Part #	I.D. (In)	O.D. (In)	Maximum W.P. (PSI)	Minimum Burst (PSI)	Weight Per Foot (Lbs)
2520FOA-100	1	1.58	450	2250	0.83
2520FOA-150	1-1/2	2.08	450	2250	1.19
2520FOA-200	2	2.60	450	2250	1.90

All of Konex's flexible hoses are available with many options such as wrenchtight and handtight CGA connections, shut off valves, check valves, medical yoke connections & elbow fittings. Common pigtail configurations are listed below. Please contact customer service for your custom high pressure pigtail requirements.

COMMON PIGTAIL ASSEMBLIES - 3000PSI

KONEX provides common 3000PSI hoses readily available with CGA fittings.



PTF SERIES

Part Number	Connection	Connection
PTFXXX-XX	Brass Wrenchtight	Brass Wrenchtight
PTFHXXX-XX	Plastic Handtight	Brass Wrenchtight
PTFHXXX-XXH	Plastic Handtight	Plastic Handtight

Replace the "XXX" with appropriate CGA code. Replace the "XX" with the length in inches (18, 24, 36, 48 and 60 are standard lengths)

TF & FC SERIES – ECONOMICAL FLEXIBLE HOSE TRANSFILL MANIFOLDS

Part Number	Description
TFXXX-XX	Single cylinder transfill

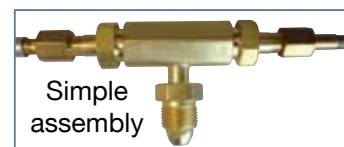
Replace "XXX" with CGA code for gas service you require. Replace the "XX" with hose length.

Part Number	Description
TF870H-60-870H	Single cylinder CGA870 transfill

Adding an H to the end of the CBA denotes "HAND TIGHT CONNECTION"

Part Number	Description
FCX-XXX	Multiple cylinder transfill

Replace the "x" for the number of supply cylinders. Replace "XXX" with CGA code for gas service you require.



Simple
assembly

KONEX has many hose options. Call customer service for your special requests.

Wrenchtight 90° Brass Elbows	Check Valves	Wrenchtight CGA Ends	Shut Off Valves	Handtight CGA Ends	Medical Fill Yokes

THERMOPLASTIC CO₂ TRANSFER HOSE

KONEX offers the compressed gas industry a revolutionary thermoplastic hose specifically designed for the transfer of liquid and gaseous CO₂ for beverage applications. The CO₂ transfer hose is engineered for optimum performance and years of service life under the most demanding conditions. All KONEX hoses are designed with custom machined end fittings.

Series 4770 – The KONEX thermoplastic carbon dioxide hose is commonly used on small bulk delivery trucks as well as flexible lines from the restaurant wall-box to the liquid cylinders. The Series 4770 hose is specially formulated to perform well in temperatures as low as -40F, and the proprietary core tube is plasticizer free and FDA compliant. The KONEX unique bonding process guarantees excellent kink resistance and the heavy cover provides for superior handling and abrasion resistance. All hoses are CGA6.5 compliant and CGA 6.6 Cold bend test compliant.

- 2000PSI operating pressure, Maximum burst pressure 8000PSI
Temperature: -40F to +150F operating range



1/2" ID SERIES 4770 THERMO PLASTIC HOSE – BULK, NO ENDS

Part Number	Description	Service	Length
4770LT-08	Bulk Hose	CO ₂	250'
10FJ-8RT	½" Hose x 5/8" FJIC, Crimp/swage style	CO ₂	20 each

1/2" ID SERIES 4770 THERMO PLASTIC HOSE

Part Number	Ends	Service	Length
4770LT-08-RT-10FJ-10FJ-1200	Plated C.S. 5/8" FJIC	CO ₂	100'
4770LT-08-RT-10FJ-10FJ-900	Plated C.S. 5/8" FJIC	CO ₂	75'
4770LT-08-RT-10FJ-10FJ-780	Plated C.S. 5/8" FJIC	CO ₂	65'
4770LT-08-RT-10FJ-10FJ-600	Plated C.S. 5/8" FJIC	CO ₂	50'

ACCESSORIES

Part Number	Description
PF-100	Hand Swage Machine
4599-FP006	Pusher for ½" Hose
4540-30800	Die for ½" Hose
B78C12-12F	Fill Gun Quick Connect-Wing Nut Style
B78N12-12FWF	Wall Box Fill Nipple w/6 hole flange
9SS-8MP50xFP50-SS-B7657	90 degree stainless steel live swivel for connection reel
N718-25-26-15.5G	Hose Reel w ½" Super Swivel Full Flow, low temp

4770 SPECIFICATIONS

Part #	Nominal I.D.		Maximum O.D.		Minimum Bend Radius	Maximum Working Pressure		Minimum Burst Pressure		Weight		Couplings
	in	mm	in	mm		psi	bar	psi	bar	lbs/100 ft	kg/100 m	
4770-08	1/2	13	0.810	20	4.0	2,000	138	8,000	552	14.8	22.0	TW/RT

CHROME PLATED MEDICAL FILL YOKES

High quality solid brass forged medical fill yokes with chrome plating for durability.

KEY FEATURES

- All medical yokes are cleaned and packaged for oxygen service.
- Available with CGA, 1/4" & 1/2" M.NPT end connections.
- Standard T-Handle and Deluxe handtight connections are available.
- Special order non-chrome plated all brass yokes available.
- All yokes are manufactured for up to 3000PSI service pressure.
- Repeatable performance.



OXYGEN MEDICAL FILL YOKES, CGA870 PIN-INDEXING

Part Number	Description	Operation	Gas Service	CGA Code
MFY-870-1	CGA540 Male Threads	T-Handle	Oxygen	CGA870
MFY-870-1H	CGA540 Male Threads	Deluxe Handtight	Oxygen	CGA870
MFY-870-4	1/4" M. NPT	T-Handle	Oxygen	CGA870
MFY-870-4H	1/4" M. NPT	Deluxe Handtight	Oxygen	CGA870
MFY-870-8	1/2" M. NPT	T-Handle	Oxygen	CGA870
MFY-870-8H	1/2" M. NPT	Deluxe Handtight	Oxygen	CGA870



MEDICAL FILL YOKES FOR OTHER MEDICAL GAS SERVICE

Replace the "XXX" with the CGA code for the gas service you require.

Ex. Part # MFY-910-4 is a yoke for CGA910 medical Nitrous Oxide service.

Part Number	Description	Operation
MFY-XXX-4	1/4" M. NPT	T-Handle
MFY-XXX-4H	1/4" M. NPT	Deluxe Handtight
MFY-XXX-8	1/2" M. NPT	T-Handle
MFY-XXX-8H	1/2" M. NPT	Deluxe Handtight

CGA Codes Available

Yokes are available in the following configurations:

- CGA870 Oxygen
- CGA880 Carbon Dioxide(Not over 7%) - Oxygen Mixtures
- CGA890 Helium(Not over 80%) - Oxygen Mixtures
- CGA910 Nitrous Oxide
- CGA930 Helium(Over 80%) - Oxygen Mixtures
- CGA940 Carbon Dioxide(Over 7%) - Oxygen Mixtures
- CGA950 Medical Air
- CGA960 Medical Nitrogen
- CGA973 Medical Gas Mixtures

The yoke quick connector type TW42 is especially designed for filling gas cylinders with Pin-Index (with or without residual pressure valve). The connector is very light in weight and therefore easy to operate. The design of the TW42 is open allowing for easy connection, especially to cylinder valves with hand wheels and gauges.

Simply place the connector body over the cylinder valve, align the index pins and move handle upwards. The pressure-tight connection is made. The pressure assisted piston prevents accidental disconnection under pressure and provides additional safety.

For gas cylinders with residual pressure valve type, order the connector equipped with a RPV pin for opening the residual pressure valve.

APPLICATIONS

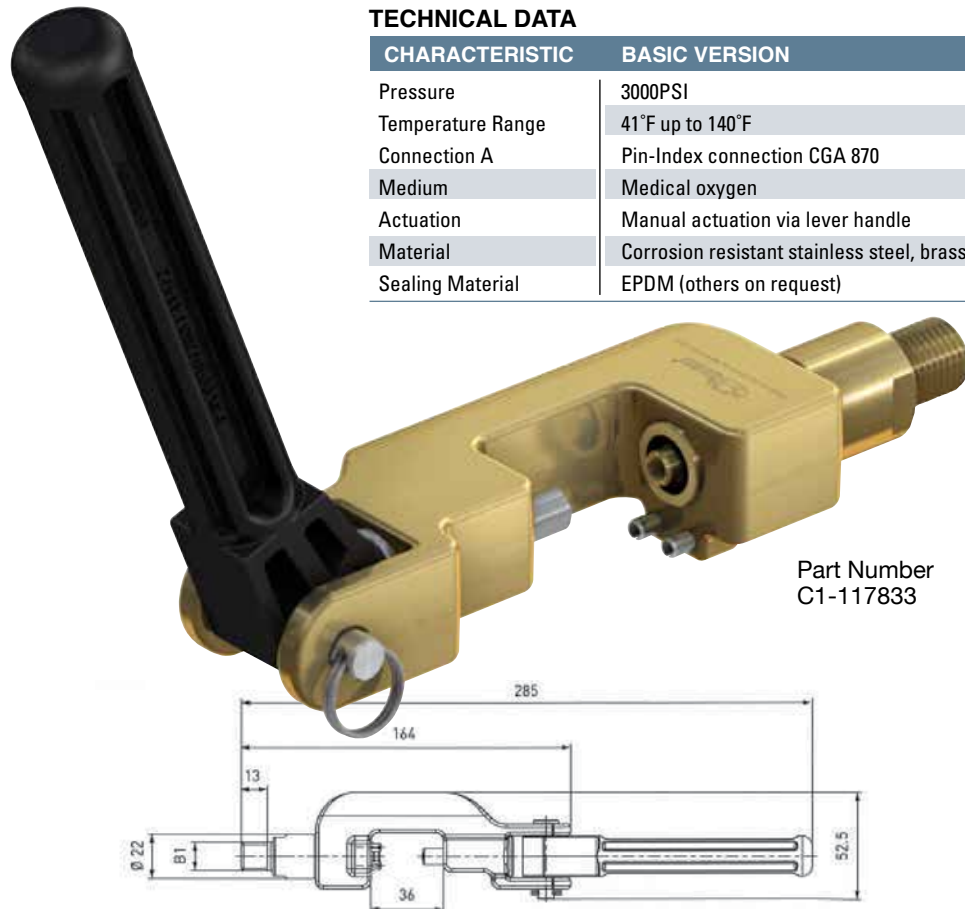
Yoke quick connector for filling of gas cylinders with Pin-Index system.

KEY FEATURES

- For Pin-Index connections
- Super light => only 24.7 oz. (700 grams)
- Monel vetted piston and full brass, enhances safety (heat sink & spark free)
- Open bow body for connection in seconds
- Pressure-assisted piston prevents accidental disconnection under pressure
- High-grade materials

TECHNICAL DATA

CHARACTERISTIC	BASIC VERSION
Pressure	3000PSI
Temperature Range	41°F up to 140°F
Connection A	Pin-Index connection CGA 870
Medium	Medical oxygen
Actuation	Manual actuation via lever handle
Material	Corrosion resistant stainless steel, brass
Sealing Material	EPDM (others on request)



Part Number
C1-117833

Quick Connector TW42

Part Number	Series	Connection A	Inlet B1 (external thread)
C1-117833	TW42	CGA 870	NPT 1/4"
C1-117833-8*	TW42	CGA 870	NPT 1/4"
C1-8-117833	TW42	CGA870	NPT 1/2"

* Equipped with pin for RPV Pin-Index Valves

SPARE PARTS Various parts are available as spares for type TW42:

Part Number	Description
E50-054E	O-ring
E62-3041-010	Index Pins
E67-118238	Lever
W127886	Piston Assembly Complete

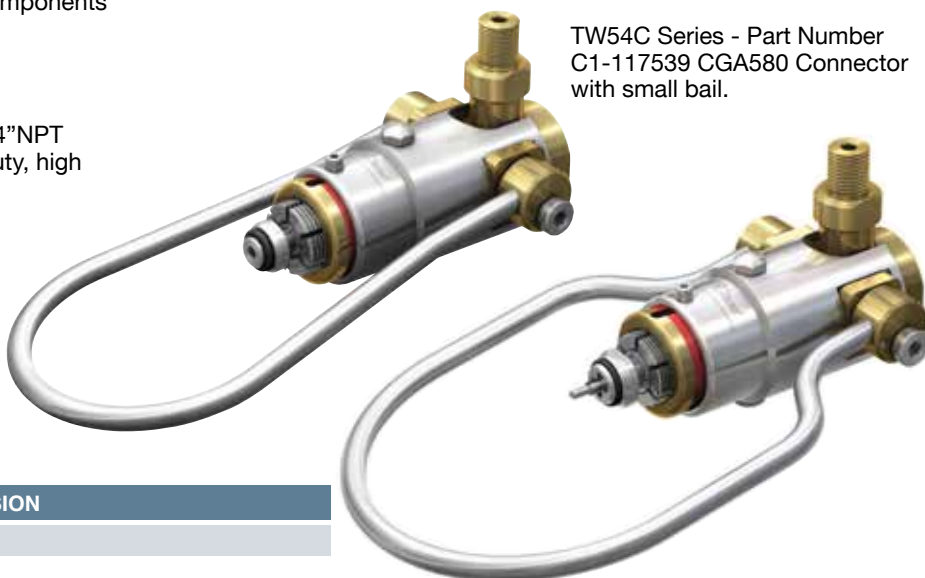
BAIL STYLE QUICK CONNECTS

The WEH® Quick Connectors have been designed for connection to female or male CGA cylinder valve threads. Just flip the bail to connect – no tapes, no thread sealants, no hand-tightening needed, thus reducing operating times and increasing productivity and eliminating carpal tunnel syndrome due to repetitive wrist movements.

WEH® Connectors for oxygen applications are cleaned for oxygen and available with adiabatic oxygen approval and rated for 3,000 psi as per CGA and MAWP 3750PSI. The connectors feature high flow and are available with or without RPV (residual pressure cylinder valves).

KEY FEATURES

- Stainless steel and brass body components
- Bail actuated connectors
- WEH® Jaw Locking Mechanism
- EPDM Elastomer Seals
- Whip connection port:
 - o Male: 90 Degree Right Angle 1/4"NPT
- Specifically designed for heavy duty, high volume filling requirements.
- US Patent No. 6,375,1521B



TW54C Series - Part Number C1-117539 CGA580 Connector with small bail.

TECHNICAL DATA

CHARACTERISTIC	BASIC VERSION
Pressure	3000PSI
Temperature Range	41°F up to 176°F 41°F up to 140°F (O ₂)
Connection A	Internal thread connection acc. to the corresponding national standard e.g. DIN, CGA, BS, NF etc.
Medium	Oxygen, nitrogen, CO ₂ , air, inert gases, medical gases
Actuation	Manual actuation via operating loop
Material	Corrosion resistant stainless steel, brass
Sealing Material	Acc. to gas type
Design	With or without RPV pin
Registration	PED 97/23/EC: CE0036 Adiabatic ignition test available

Other designs on request

Quick Connector TW54 for non-residual pressure valves
approx. dimensions (mm)

TW54C Series - Part Number C1-117540-4 CGA580 Connector with RPV and large bail.



TW57C Series - Part Number C1-134003 CGA540 Connector with small bail.

Part Number	Description	Series	Connection	Inlet
C1-134003	CGA540, Small Bail	TW57C	CGA540	1/4" Female
C1-134003-4	CGA540, Large Bail	TW57C	CGA540	1/4" Female
C1-117539	CGA580, Small Bail	TW54C	CGA580	1/4" Female
C1-117539-4	CGA580, Large Bail	TW54C	CGA580	1/4" Female
C1-117540	CGA580, Small Bail	TW54C	CGA580, With RPV	1/4" Female
C1-117540-4	CGA580, Large Bail	TW54C	CGA580, With RPV	1/4" Female

CGA 540 SLEEVE STYLE QUICK CONNECTS

The TW152 quick connector is designed to achieve easier and more efficient filling of oxygen cylinders because it can be connected directly to the standard thread of the cylinder valve.

The function is quite simple: pull back the sliding sleeve and place the filling connector onto the male thread of the cylinder valve.

The connector has an internal locking mechanism preventing disconnection under pressure.

Type TW152 can be connected to cylinder valves with or without residual pressure valves and valves with integrated pressure regulators. Due to its compact design, it is also suitable for use in confined spaces.

APPLICATIONS

Quick connector for filling of oxygen cylinders with male thread (with or without a residual pressure valve) and pressure regulator.

KEY FEATURES

- For oxygen cylinders with male thread (with or without a residual pressure valve) and pressure regulator
- For RPV connectors, with Monel vetted parts and RPV pin
- Connection in seconds directly to the cylinder valve thread
- No hand tightening required
- Automatic locking of the sliding sleeve under pressure prevents disconnection at pressures exceeding 5 bar
- Inline or 90° version available
- WEH® Jaw locking mechanism
- High-grade materials
- MAWP: 3750 PSI



CGA 540
90 degree PN # C1-137917-N

CGA 540
Inline PN # C1-132462

TECHNICAL DATA

CHARACTERISTIC	BASIC VERSION
Pressure Range	PN = 200 bar PS = 250 bar PT = 375 bar
Temperature Range	+5 °C up to +60 °C (O ₂)
Connection A	External thread connection acc. to the corresponding national standard e.g. DIN, CGA, BS, NF etc.
Medium	Medical oxygen
Actuation	Manual actuation via sliding sleeve
Material	Corrosion resistant stainless steel, brass
Sealing Material	EPDM
Design	With or without RPV pin
Registration	PED 97/23/EC: CE0036 Adiabatic ignition test available BAMA or equivalent Adiabatic ignition / burnout Certification

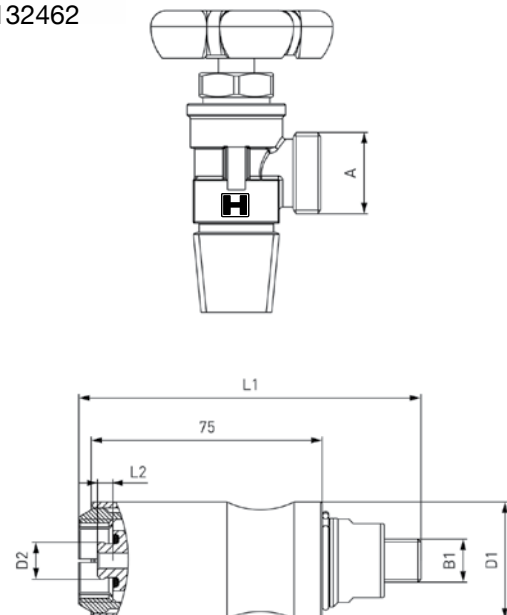
Other designs on request

Quick Connector TW152

Part Number	Series	CGA	Description	D1	L1
C1-155579	TW152	CGA540 RPV	90° NPT 1/4" Female	38	122
C1-49930	TW152	CGA540	90° 1/4" NPT Female	38	111
C1-47060	TW152	CGA540	Inline 1/4" NPT Male	38	111

Replacement O-Ring for TW152:

Part Number	Description
E50-46786-S611	O-ring (for TW152)



HANDTIGHT & WRENCHTIGHT NUTS & NIPPLES

Examples shown are CGA320 connection for Carbon Dioxide service.

Plastic Handtight Nut & Teflon Tip Nipple

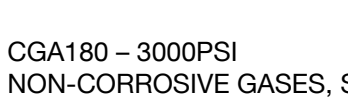
Part # HTN61-P Plastic Handtight & Part # NP150T3 Nipple w/Teflon Tip
Shown as an assembly to the right.

**Brass Wrenchtight Nut & Nipple**

Part # N61 Brass Nut & Part # NP147 Brass Nipple

**316L Stainless Steel Wrenchtight Nut & Nipple**

Part # N61SS SS Nut & Part # NP147SS SS Nipple

**Brass Wrenchtight Nut & 5/16" OD Tube Nipple**

Part # N61 Brass Nut & Part # NP147C3 5/16" OD Tube Nipple

CGA180 – 3000PSI
NON-CORROSIVE GASES, SMALL CYLINDERS

Part Number	Description
N50	.625-18UNF-2B-RH-INT, Wrenchtight Nut
NP109	1/8"NPT x 1 3/4" Nipple
W65	Teflon Washer

CGA200 – 250PSI
ACETYLENE, "MC" SIZE

Part Number	Description
N57	.628-2NGO-RH-INT, Wrenchtight Nut
NP414	1/8"NPT x 1 1/4" Nipple

CGA280 – 3000PSI
MEDICAL BREATHING MIXTURES

Part Number	Description
N59	.750-14NGO-RH-INT, Wrenchtight Nut
NP118	1/4"NPT x 2 1/2" Nipple
NP117C3	5/16"OD Tube x 1.090" Nipple

CGA296 – 3000PSI
INDUSTRIAL OXYGEN MIXTURES

Part Number	Description
N60	.803-14UNS-2A-RH-EXT, Wrenchtight Nut
HTN60	.803-14UNS-2A-RH-EXT, Handtight Nut, Brass
NP123	1/4"NPT x 3" Nipple
NP123CV	1/4"NPT x 3" Nipple w/ Check Valve
NP123CV-RV	1/4"NPT x 3" Nipple w/ Reverse Flow Check Valve
NP122C3	5/16"OD Tube x 1 3/4" Nipple
NP123W	1/4"NPT x 3" Nipple w/O-ring
NP123WC3	5/16"OD Tube x 2 1/2" Nipple w/O-ring
OR10	Replacement O-ring

CGA300 – 250PSI
ACETYLENE

Part Number	Description
N56	.830-14NGO-RH-INT, Wrenchtight Nut
HTN56	.830-14NGO-RH-INT, Handtight Nut, Brass
NP126	1/4"NPT x 2" Nipple
NP128	1/4"NPT x 2 1/2" Nipple
NP128CV	1/4"NPT x 2 1/2" Nipple w/ Check Valve
NP128CV-RV	1/4"NPT x 2 1/2" Nipple w/ Reverse Check Valve
NP126C2	1/4"OD Tube x 1 1/4" Nipple
NP126C3	5/16"OD Tube x 1 1/4" Nipple
NP128T3	1/4"NPT x 2 1/2" Nipple w/Teflon Tip
NP126T3C3	5/16"OD Tube x 2 1/2" Nipple w/Teflon Tip
T128-3	Replacement Teflon Tip

CGA320 – 3000PSI
CARBON DIOXIDE **PICTURES SHOWN ABOVE

Part Number	Description
N61	.830-14NGO-RH-INT, Wrenchtight Nut
N61SS**	.830-16NGO-RH-INT, Stainless Steel
HTN61	.830-14NGO-RH-INT, Handtight Nut, Brass
HTN61-P**	.830-14NGO-RH-INT, Handtight Nut, Plastic
NP147**	1/4"NPT x 2" Nipple
NP147SS**	1/4"NPT x 2" Nipple, Stainless Steel
NP150	1/4"NPT x 2 1/2" Nipple
NP151	1/4"NPT x 3" Nipple
NP147C2	1/4"OD Tube x 2 1/32" Nipple
NP147C2SS	1/4"OD Tube x 2 1/32" Nipple, Stainless Steel
NP147C3**	5/16"OD Tube x 2 1/32" Nipple
NP150T3**	1/4"NPT x 2 1/2" Nipple w/Teflon Washer
NP147T3C2	1/4"OD Tube x 2 1/2" Nipple w/Teflon Washer
NP147T3C3	5/16"OD Tube x 2 1/2" Nipple w/Teflon Washer
W6, W8	Replacement Fiber Washer or Teflon Washer
W10	Replacement Teflon Washer For Handtight Nipples

CGA326 – 3000PSI
NITROUS OXIDE

Part Number	Description
N82	.830-14NGO-RH-INT, Wrenchtight Nut
HTN82	.830-14NGO-RH-INT, Handtight Nut, Brass
HTN82-P	.830-14NGO-RH-INT, Handtight Nut, Plastic
NP732	1/4"NPT x 2 1/8" Nipple
NP733	1/4"NPT x 2 1/2" Nipple
NP733CV	1/4"NPT x 2 1/2" Nipple w/Check Valve
NP733CV-RV	1/4"NPT x 2 1/2" Nipple w/Reverse Flow Check Valve
NP732C2	1/4"OD Tube x 1 1/4" Nipple
NP732C3	5/16"OD Tube x 1 1/4" Nipple
NP733T1	1/4"NPT x 2 1/2" Nipple w/Kel-F Tip
NP733T1C3	5/16"OD Tube x 2 1/2" Nipple w/Kel-F Tip
T733-1	Replacement Kel-F Tip

Examples shown are CGA346 connection for Breathing Air service.



Brass Wrenchtight Nut & Check Valve Nipple
Part # N84 Brass Nut & Part # NP753CV
Brass Nipple With Check Valves



Brass Wrenchtight Nut & Nipple
Part # N84 Brass Nut & Part # NP753
Brass Nipple



316L Stainless Steel Wrenchtight Nut & Nipple
Part # N84SS SS Nut &
Part # NP753SS SS Nipple

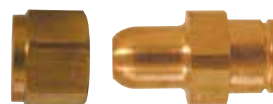
CGA330 – 3000PSI NON-CORROSIVE GASES & CORROSIVE GASES

Part Number	Description
N62	.830-14NGO-LH-INT, Wrenchtight Nut
N62SS	.830-14NGO-LH-INT, Wrenchtight Nut, Stainless Steel*
NP161	1/4"NPT x 2" Nipple
NP161SS	1/4"NPT x 2" Nipple, Stainless Steel*
NP162	1/4"NPT x 2 1/2" Nipple
NP162C2	1/4"OD Tube x 2 1/32" Nipple
NP162C3	5/16"OD Tube x 2 1/32" Nipple
NP161C2SS	1/4"OD Tube x 2 1/32" Nipple, Stainless Steel*
W8	Replacement Teflon Washer*

* Stainless Steel recommended for corrosive gases

CGA346 – 3000PSI BREATHING AIR - **PICTURES SHOWN ABOVE

Part Number	Description
N84**	.830-14NGO-RH-INT, Wrenchtight Nut
N84SS**	.830-14NGO-RH-INT, Wrenchtight Nut, Stainless Steel
HTN84	.830-14NGO-RH-INT, Handtight Nut, Brass
HTN84-P**	.830-14NGO-RH-INT, Handtight Nut, Plastic
NP752	1/4"NPT x 2 1/8" Nipple
NP753**	1/4"NPT x 2 1/2" Nipple
NP753CV**	1/4"NPT x 2 1/2" Nipple w/Check Valve
NP753CV-RV	1/4"NPT x 2 1/2" Nipple w/Reverse Flow Check Valve
NP753SS**	1/4"NPT x 2 1/2" Nipple, Stainless Steel
NP754	1/4"NPT x 3" Nipple
NP752C2	1/4"OD Tube x 1 1/4" Nipple
NP752C2SS	1/4"OD Tube x 1 1/4" Nipple, Stainless Steel
NP752C3**	5/16"OD Tube x 1 1/4" Nipple
NP753T1**	1/4"NPT x 2 1/2" Nipple w/Kel-F Tip
NP752T1C2	1/4"OD Tube x 2" Nipple w/Kel-F Tip
NP752T1C3	1/4"OD Tube x 2" Nipple w/Kel-F Tip
T753-1	Replacement Kel-F Tips



Brass Wrenchtight Nut & 5/16" OD Tube Nipple
Part # N84 Brass Nut & Part # NP752C3
5/16"OD Tube Nipple

Plastic Handtight Nut & Teflon Tip Nipple
Part # HTN84-P Plastic Handtight
Part # NP753T1 Nipple w/Teflon Tip



CGA347 – 3001-5500PSI BREATHING AIR

Part Number	Description
N85	.830-14NGO-RH-INT, Wrenchtight Nut
N85SS	.830-14NGO-RH-INT, Wrenchtight Nut, Stainless Steel
HTN85SS	.830-14NGO-RH-INT, Handtight Nut, Stainless Steel
NP765	1/4"NPT x 2 1/2" Nipple
NP765SS	1/4"NPT x 2 1/2" Nipple, Stainless Steel
NP765SSW	1/4"NPT x 2 1/2" Nipple, Stainless Steel, w/ O-ring

CGA350 – 3000PSI HYDROGEN/METHANE

Part Number	Description
N64	.830-14NGO-LH-INT, Wrenchtight Nut
N64SS	.830-14NGO-LH-INT, Wrenchtight Nut, Stainless Steel
HTN64	.830-14NGO-LH-INT, Handtight Nut, Brass
HTN64-P	.830-14NGO-LH-INT, Handtight Nut, Plastic
NP167	1/4"NPT x 2 1/8" Nipple
NP168	1/4"NPT x 2 1/2" Nipple
NP168CV	1/4"NPT x 2 1/2" Nipple w/Check Valve
NP168CV-RV	1/4"NPT x 2 1/2" Nipple w/Reverse Flow Check Valve
NP168SS	1/4"NPT x 2 1/2" Nipple, Stainless Steel
NP169	1/4"NPT x 3" Nipple
NP168C2	1/4"OD x 1 1/4" Nipple
NP168C3	5/16"OD Tube x 1 1/4" Nipple
NP168C2SS	1/4"OD x 1 1/4" Nipple, Stainless Steel
NP168T3	1/4"NPT x 2 1/2" Nipple w/Teflon Tip
NP168T3C2	1/4"OD Tube x 2" Nipple w/Teflon Tip
NP168T3C3	5/16"OD Tube x 2" Nipple w/Teflon Tip
T168-3	Replacement Teflon Tip

HANDTIGHT & WRENCHTIGHT NUTS & NIPPLES



Brass Wrenchtight Nut & Nipple
Part # N73 Brass Nut & Part # NP188 Brass Nipple

Examples shown are CGA580 connection for Inert Gas service.



Brass Wrenchtight Nut & 5/16" OD Tube Nipple
Part # N73 Brass Nut & Part # NP188C3 5/16" OD Tube Nipple

CGA 500 – 3000PSI
MEDICAL MIXTURE

Part Number	Description
N67	.880-14NGO-RH-EXT, Wrenchtight Nut
HTN67-P	.880-14NGO-RH-EXT, Handtight Nut
NP188	1/4"NPT x 2 1/2" Nipple
NP189	1/4"NPT x 3" Nipple
NP190	1/4"NPT x 3 1/2" Nipple
NP188C2	1/4"OD Tube x 1 3/4" Nipple
NP188C3	5/16"OD Tube x 1 3/4" Nipple
NP190W	1/4"NPT x 3 1/2" Nipple w/O-ring
NP190T3	1/4"NPT x 3 1/2" Nipple w/Teflon Tip
NP188T3C2	1/4"OD Tube x 2 1/2" Nipple w/Teflon Tip
NP188T3C3	5/16"OD Tube x 2 1/2" Nipple w/Teflon Tip
OR11	Replacement O-ring for NP190W
T189-3	Replacement Teflon Tip

CGA510 – 250PSI
ACETYLENE

Part Number	Description
N69	.880-14NGO-LH-EXT, Wrenchtight Nut
N69SS	.880-14NGO-LH-EXT, Wrenchtight Nut, Stainless Steel
HTN69	.880-14NGO-LH-EXT, Handtight Nut, Brass
HTN69-P	.880-14NGO-LH-EXT, Handtight Nut, Plastic
NP188	1/4"NPT x 2 1/2" Nipple
NP188CV	1/4"NPT x 2 1/2" Nipple W/Check Valve
NP188CV-RV	1/4"NPT x 2 1/2" Nipple W/Reverse Flow Check Valve
NP189	1/4"NPT x 3" Nipple
NP190	1/4"NPT x 3 1/2" Nipple
NP188SS	1/4"NPT x 2 1/2" Nipple, Stainless Steel
NP189SS	1/4"NPT x 3" Nipple, Stainless Steel
NP188C2SS	1/4"OD Tube x 2 1/2" Nipple, Stainless Steel
NP190W	1/4"NPT x 3 1/2" Nipple w/O-ring
NP189T3	1/4"NPT x 3" Nipple w/Teflon Tip
NP190T3	1/4"NPT x 3 1/2" Nipple w/Teflon Tip
NP188T3C2	1/4"OD Tube x 2 1/2" Nipple w/Teflon Tip
NP188T3C3	5/16"OD Tube x 2 1/2" Nipple w/Teflon Tip

CGA520 – 250PSI
ACETYLENE

Part Number	Description
N70	.899"-18NGO-RH-INT, Wrenchtight Nut
NP435	1/4"NPT x 1 3/4" Nipple
NP435C2	1/4"OD Tube x 1 1/4" Nipple
NP435C3	5/16"OD Tube x 1 1/4" Nipple

CGA540 – 3000PSI
OXYGEN

Part Number	Description
N71	.908-14NGO-RH-INT, Wrenchtight Nut
N71SS	.908-14NGO-RH-INT, Wrenchtight Nut, Stainless Steel
HTN71	.908-14NGO-RH-INT, Handtight Nut, Brass
HTN71-P	.908-14NGO-RH-INT, Handtight Nut, Plastic
NP210	1/4"NPT x 2 1/8" Nipple
NP210CV	1/4"NPT x 2 1/8" Nipple W/Check Valve
NP210CV	1/4"NPT x 2 1/8" Nipple W/Reverse Flow Check Valve
NP211	1/4"NPT x 2 1/2" Nipple
NP211SS	1/4"NPT x 2 1/2" Nipple, Stainless Steel
NP212	1/4"NPT x 3 Nipple
NP210C2	1/4"OD Tube x 1.109 Nipple
NP210C3	5/16"OD Tube x 1.109 Nipple
NP210C2SS	1/4"OD Tube x 1.109 Nipple, Stainless Steel
NP211T1	1/4"NPT x 2 1/2" Nipple w/Teflon Tip
NP210T1C2	1/4" OD Tube x 1 3/4" Nipple w/ Teflon Tip
NP210T1C3	5/16" OD Tube x 1 3/4" Nipple w/ Teflon Tip
T211-1	Replacement Teflon Tip

**Plastic Handtight Nut & Teflon Tip Nipple**

Part # HTN73-P Plastic Handtight &
Part # NP189T3 Nipple with Teflon Tip

**Plastic Handtight Nut & O-Ring Seal Nipple**

Part # HTN73-P Plastic Handtight &
Part # NP190W Nipple with O-Ring



Examples shown are CGA580 connection for
Inert Gas service.

CGA555 – 250PSI PROPANE, LIQUID WITHDRAWAL

Part Number	Description
N86	.908-14NGO-LH-INT, Wrenchtight Nut
HTN86	.908-14NGO-LH-INT, Handtight Nut
NP210	1/4" NPT x 2 1/8" Nipple
NP211	1/4" NPT x 2 1/2" Nipple
NP210C2	1/4" OD Tube x 1.109 Nipple
NP210C3	5/16" OD Tube x 1.109 Nipple
NP210T1C2	1/4" OD Tube x 1 3/4" Nipple w/ Teflon Tip
NP210T1C3	5/16" OD Tube x 1 3/4" Nipple w/ Teflon Tip

CGA577 – 3001-4000PSI OXYGEN

Part Number	Description
N577	.965-14NGO-RH-INT, Wrenchtight Nut
NP823	1/4" NPT x 3" Nipple

CGA580 – 3000PSI HELIUM, NITROGEN, ARGON (INERT GAS)

Part Number	Description
N73**	.960-14NGO-RH-EXT, Wrenchtight Nut
N73SS	.960-14NGO-RH-EXT, Wrenchtight Nut, Stainless Steel
HTN73	.960-14NGO-RH-EXT, Handtight Nut, Brass
HTN73-P	.960-14NGO-RH-EXT, Handtight Nut, Plastic
NP188**	1/4" NPT x 2 1/2" Nipple
NP189	1/4" NPT x 3" Nipple
NP188CV	1/4" NPT x 2 1/2" Nipple W/Check Valve
NP188CV-RV	1/4" NPT x 2 1/2" Nipple W/Reverse Flow Check Valve
NP190	1/4" NPT x 3 1/2" Nipple
NP188SS	1/4" NPT x 2 1/2" Nipple, Stainless Steel
NP189SS	1/4" NPT x 3" Nipple, Stainless Steel
NP188C2	1/4" OD Tube x 1 3/4" Nipple
NP188C3**	5/16" OD Tube x 1 3/4" Nipple
NP188C2SS	1/4" OD Tube x 2 1/2" Nipple, Stainless Steel
NP190W**	1/4" NPT x 3 1/2" Nipple w/O-ring
NP189T3**	1/4" NPT x 3" Nipple w/Teflon Tip
NP190T3	1/4" NPT x 3 1/2" Nipple w/Teflon Tip
NP188T3C2	1/4" OD Tube x 2 1/2" Nipple w/Teflon Tip
NP188T3C3	5/16" OD Tube x 2 1/2" Nipple w/Teflon Tip
OR11	Replacement O-ring for NP190W
T189-3	Replacement Teflon Tip

** Sample pictures shown above

HANDTIGHT & WRENCHTIGHT NUTS & NIPPLES

Stainless Steel Wrenchtight Nut & Nipple

Part # N80SS SS Nut & Part # NP246SS SS Nipple



Example shown above is CGA677 connection for Inert gas service, 5501-7500 PSIG

**CGA590 – 3000PSI
INDUSTRIAL AIR / OIL PUMP NITROGEN**

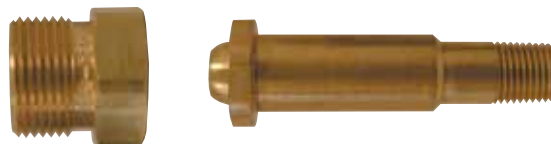
Part Number	Description
N74	.960*14NGO-LH-EXT, Wrenchtight Nut
N74SS	.960*14NGO-LH-EXT, Wrenchtight Nut, Stainless Steel
NP188	1/4"NPT x 2 1/2" Nipple
NP189	1/4"NPT x 3" Nipple
NP188CV	1/4"NPT x 2 1/2" Nipple W/Check Valve
NP188CV-RV	1/4"NPT x 2 1/2" Nipple W/Reverse Flow Check Valve
NP190	1/4"NPT x 3 1/2" Nipple
NP188SS	1/4"NPT x 2 1/2" Nipple, Stainless Steel
NP189SS	1/4"NPT x 3" Nipple, Stainless Steel
NP188C2	1/4"OD Tube x 1 3/4" Nipple
NP188C3	5/16"OD Tube x 1 3/4" Nipple
NP188C2SS	1/4"OD Tube x 2 1/2" Nipple, Stainless Steel
NP190W	1/4"NPT x 3 1/2" Nipple w/O-ring
NP189T3	1/4"NPT x 3" Nipple w/Teflon Tip
NP190T3	1/4"NPT x 3 1/2" Nipple w/Teflon Tip
NP188T3C2	1/4"OD Tube x 2 1/2" Nipple w/Teflon Tip
NP188T3C3	5/16"OD Tube x 2 1/2" Nipple w/Teflon Tip
OR11	Replacement O-ring for NP190W
T189-3	Replacement Teflon Tip

**CGA660 – 3000PSI
REFRIGERANT GASES**

Part Number	Description
N77	1.035-14NGO-RH-INT, Wrenchtight Nut
N77SS	1.035-14NGO-RH-INT, Wrenchtight Nut, Stainless Steel
NP236	1/4"NPT x 1 3/4" Nipple
NP238	1/4"NPT x 2 1/2" Nipple
NP239	1/4"NPT x 3" Nipple
NP238SS	1/4"NPT x 2 1/2" Nipple, Stainless Steel
NP239SS	1/4"NPT x 3" Nipple, Stainless Steel
NP236C2SS	1/4"OD Tube x 1 3/4" Nipple, Stainless Steel
W18	Teflon Washer

Brass Wrenchtight Nut & Nipple

Part # N702 Brass Nut & Part # NP843 Brass Nipple



Example shown above is CGA680 connection for Inert Gas service, 3001-5500PSIG

**CGA677 – 5501-7500PSI
HELIUM, NITROGEN, ARGON (INERT GAS) -**
 **PICTURES SHOWN ABOVE

Part Number	Description
N680	1.040-14NGO-RH-EXT, Wrenchtight Nut
NP843	1/4"NPT x 3" Nipple
NP844	1/4"NPT x 3 1/2" Nipple

**CGA680 – 3001-5500PSI
HELIUM, NITROGEN, ARGON (INERT GAS)**

Part Number	Description
N680	1.040-14NGO-RH-EXT, Wrenchtight Nut
NP843	1/4"NPT x 3" Nipple
NP844	1/4"NPT x 3 1/2" Nipple

**CGA695 – 3001-5500PSI
HYDROGEN/METHANE**

Part Number	Description
N695	1.040-14NGO-LH-EXT, Wrenchtight Nut
NP843	1/4"NPT x 3" Nipple
NP844	1/4"NPT x 3 1/2" Nipple

**CGA701 – 4001-5500PSI
OXYGEN**

Part Number	Description
N701	1.108-18NGO-RH-INT, Wrenchtight Nut
NP863	1/4" NPT x 3" Nipple

**CGA702 • 5501-7500PSI
OXYGEN**

Part Number	Description
N702**	1.120-14NGO-RH-EXT., Wrenchtight Nut
NP843**	1/4"NPT x 3" Nipple
NP844	1/4"NPT x 3 1/2" Nipple

BRASS & STAINLESS STEEL CGA VALVE OUTLET ADAPTERS X NPT



Part # A542
CGA320 x 3/8" M.NPT Adaptor



Part # N811A
CGA326 x 1/4" F.NPT Adaptor



Part # N347A-SS
CGA347 x 1/4" F.NPT Adaptor



Part # A591
CGA540 x 1/4" M.NPT Adaptor



Part # N876A
CGA540 x 1/4" F.NPT Adaptor

**CGA180 – .620-18UNF-2B-RH-EXT – 3000PSI
NON-CORROSIVE GAS OUTLET, SMALL CYLINDERS**

Part Number	Description
A518	CGA180 x 1/4" Male NPT

**CGA296 – .803-UNS-2B-RH-INT – 3000PSI
INDUSTRIAL OXYGEN MIXTURES**

Part Number	Description
N853A	CGA296 x 1/4" Female NPT

**CGA300 – .825-14NGO-RH-EXT – 250PSI
ACETYLENE OUTLET**

Part Number	Description
A531	CGA300 x 1/4" Male NPT
A533	CGA300 x 1/2" Male NPT
A535	CGA300 x 3/4" Male NPT
N830A	CGA300 x 1/4" Female NPT

**CGA320 – .825-14NGO-RH-EXT – 3000PSI
CARBON DIOXIDE OUTLET**

Part Number	Description
A541	CGA320 x 1/4" Male NPT
A542	CGA320 x 3/8" Male NPT
A543	CGA320 x 1/2" Male NPT
A545	CGA320 x 3/4" Male NPT
N854A	CGA320 x 1/4" Female NPT

**CGA326 – .825-14NGO-RH-EXT – 3000PSI
NITROUS OXIDE OUTLET**

Part Number	Description
A631	CGA326 x 1/4" Male NPT
A632	CGA326 x 3/8" Male NPT
A633	CGA326 x 1/2" Male NPT
N811A	CGA326 x 1/4" Female NPT

**CGA346 – .825-14NGO-RH-EXT – 3000PSI
BREATHING AIR OUTLET**

Part Number	Description
A641	CGA346 x 1/4" Male NPT
A641SS	CGA346 x 1/4" Male NPT, Stainless Steel
A643	CGA346 x 1/2" Male NPT
N866A	CGA346 x 1/4" Female NPT
N866ASS	CGA346 x 1/4" Female NPT, Stainless Steel

**CGA347 – .830-14NGO-RH-EXT – 3001-5500PSI
BREATHING AIR OUTLET**

Part Number	Description
N347ASS	CGA347 x 1/4" Female NPT, Stainless Steel

**CGA350 • .825-14NGO-RH-EXT • 3000PSI
HYDROGEN/METHANE OUTLET**

Part Number	Description
A551	CGA350 x 1/4" Male NPT
A553	CGA350 x 1/2" Male NPT
A555	CGA350 x 3/4" Male NPT
N874A	CGA350 x 1/4" Female NPT
N874ASS	CGA350 x 1/4" Female NPT, Stainless Steel

**CGA500 – .885-14NGO-RH-INT – 3000PSI
MEDICAL GAS MIXTURES OUTLET**

Part Number	Description
A571	CGA500 x 1/4" Male NPT
N807A	CGA500 x 1/4" Female NPT

**CGA510 – .885-14NGO-LH-INT – 250PSI
ACETYLENE OUTLET**

Part Number	Description
A581	CGA510 x 1/4" Male NPT
A582	CGA510 x 3/8" Male NPT
A583	CGA510 x 1/2" Male NPT
A585	CGA510 x 3/4" Male NPT
N800A	CGA510 x 1/4" Female NPT

**CGA540 – .903-14NGO-RH-EXT – 3000PSI
OXYGEN OUTLET**

Part Number	Description
A591	CGA540 x 1/4" Male NPT
A591SS	CGA540 x 1/4" Male NPT, Stainless Steel
A592	CGA540 x 3/8" Male NPT
A593	CGA540 x 1/2" Male NPT (W/CHECK VALVE)
A593CV	CGA540 x 1/2" Male NPT
A595	CGA540 x 3/4" Male NPT
N876A	CGA540 x 1/4" Female NPT
N876ASS	CGA540 x 1/4" Female NPT, Stainless Steel

**CGA555 – .903-14NGO-LH-EXT – 3000PSI
PROPANE (LIQUID WITHDRAWAL) OUTLET**

Part Number	Description
A651	CGA555 x 1/4" Male NPT
A653	CGA555 x 1/2" Male NPT
N885A	CGA555 x 1/4" Female NPT

**CGA580 – .965-14NGO-RH-INT – 3000PSI
HELIUM, NITROGEN, ARGON (INERT GAS) OUTLET**

Part Number	Description
A601	CGA580 x 1/4" Male NPT
A602	CGA580 x 3/8" Male NPT
A603	CGA580 x 1/2" Male NPT
A603CV	CGA580 x 1/2" Male NPT (W/CHECK VALVE)
A605	CGA580 x 3/4" Male NPT
N862A	CGA580 x 1/4" Female NPT
N862ASS	CGA580 x 1/4" Female NPT, Stainless Steel

**CGA590 – .965-14NGO-LH-INT – 3000PSI INDUSTRIAL
AIR OUTLET**

Part Number	Description
A611	CGA590 x 1/4" Male NPT
A613	CGA590 x 1/2" Male NPT
N954A	CGA590 x 1/4" Female NPT

**CGA660 • 1.030-14NGO-RH-EXT • 3000PSI
REFRIGERANT GASES**

Part Number	Description
N880A	CGA660 x 1/4" Female NPT

**CGA677 – 1.035-14NGO-LH-EXT – 5501-7500PSI
HELIUM, NITROGEN, ARGON (INERT GAS)**

Part Number	Description
A671SS	CGA677 x 1/4" Male NPT, Stainless Steel
A673SS	CGA677 x 1/2" Male NPT, Stainless Steel
N677ASS	CGA677 x 1/4" Female NPT, Stainless Steel

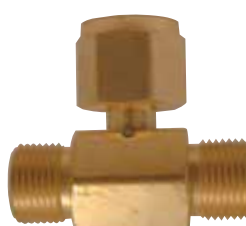
CGA DUST CAP ASSEMBLIES

Dust Cap Assemblies -
Do Not Make
Gas Tight Seal

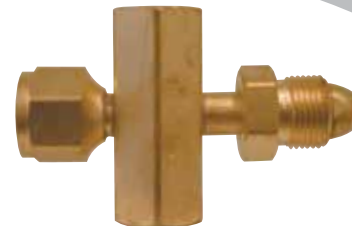
Part #CC8540
CGA540 Dust Cap
& Chain



Part Number	CGA Code	Description
CC8320	320	Carbon Dioxide
CC8346	346	Breathing Air
CC8350	350	Hydrogen
CC8510	510	Acetylene
CC8540	540	Oxygen
CC8580	580	Nitrogen, Argon, Helium

CGA MANIFOLD COUPLER TEES


2 Way Coupler Tee



3 Way Coupler Tee

**COUPLER TEES - 2 CGA OUTLETS, ONE CGA NUT
& NIPPLE**

Standard Part Number	CGA Code	Description	Check Valve Part Number
C2320	320	Carbon Dioxide, 3000PSIG	C2320CV
C2326	326	Nitrous Oxide, 3000PSIG	C2326CV
C2346	346	Breathing Air, 3000PSIG	C2346CV
C2350	350	Hydrogen, 3000PSIG	C2350CV
C2540	540	Oxygen, 3000PSIG	C2540CV
C2580	580	Nitrogen, Argon, Helium 3000PSIG	C2580CV

**COUPLER TEES - 3 CGA OUTLETS, ONE CGA NUT
& NIPPLE**

Standard Part Number	CGA Code	Description	Check Valve Part Number
C4320	320	Carbon Dioxide, 3000PSIG	C4320CV
C4326	326	Nitrous Oxide, 3000PSIG	C4326CV
C4346	346	Breathing Air, 3000PSIG	C4346CV
C4540	540	Oxygen, 3000PSIG	C4540CV
C4580	580	Argon, Helium & Nitrogen	C4580CV

CGA PLUG & CHAIN ASSEMBLIES

Two Piece & "Compact"
One Piece Plug & Chain
Assemblies



Part #PC580
CGA580 Gas Tight Plug

Two Piece Part Number	CGA Code	Description	"Compact" One Piece Part Number
PC4326	326	Nitrous Oxide	PC326
PC4346	346	Breathing Air	PC346
PC4347	347	Breathing Air (Brass)	PC347
PC4347SS	347	Breathing Air (Stainless)	N/A
PC4350	350	Hydrogen	PC350
PC4500	500	Medical Mixtures	PC500
PC4510	510	Acetylene	PC510
PC4540	540	Oxygen	PC540
PC4555	555	Propane (Liquid Withdrawal)	PC555
PC4580	580	Nitrogen, Argon & Helium	PC580
PC4590	590	Industrial Air	PC590

90° BRASS ELBOW FIGURE 1

Part Number	Female Threads
PEL-2HP	1/8" NPT
PEL-4HP	1/4" NPT
PEL-6HP	3/8" NPT
PEL-8HP	1/2" NPT



Figure 1

90° BRASS STREET ELBOW FIGURE 2

Part Number	Female Threads
PL-2HP	1/8" NPT
PL-4HP	1/4" NPT
PL-6HP	3/8" NPT
PL-8HP	1/2" NPT



Figure 2

45° BRASS STREET ELBOW FIGURE 3

Part Number	Female Threads
PSL2-2HP	1/8" NPT
PSL4-4HP	1/4" NPT
PSL6-6HP	3/8" NPT
PSL6-8HP	1/2" NPT



Figure 3

BRASS 3 WAY TEE FIGURE 4

Part Number	Female Threads
PFT-2HP	1/8" NPT
PFT-4HP	1/4" NPT
PFT-6HP	3/8" NPT
PFT-8HP	1/2" NPT



Figure 4

BRASS STREET TEE FIGURE 5

Part Number	Female Threads
PST-2HP	1/8" NPT
PST-4HP	1/4" NPT

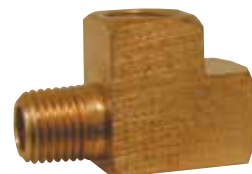


Figure 5

BRASS CROSS FIGURE 6

Part Number	Two Female Thread/ One Male Thread
PCR-2HP	1/8" NPT
PCR-4HP	1/4" NPT
PCR-6HP	3/8" NPT
PCR-8HP	1/2" NPT

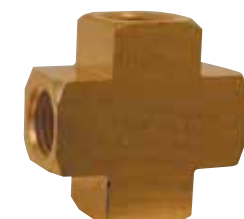


Figure 6

PIPE EXTENSION FIGURE 7

Part Number	One Female Thread/ One Male Thread
B395	1/8" NPT, 2 1/2" OAL
B430	1/4" NPT, 3" OAL

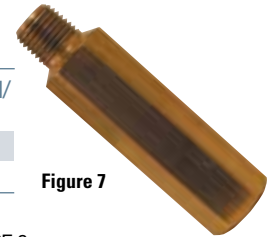


Figure 7

BRASS HEX HEAD PLUG FIGURE 8

Part Number	Male Threads
P2	1/8" NPT
P4	1/4" NPT
P6	3/8" NPT
P8	1/2" NPT

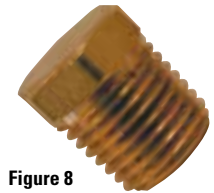


Figure 8

BRASS CAP FIGURE 9

Part Number	Male Threads
P52	1/8" NPT
P54	1/4" NPT
P56	3/8" NPT
P58	1/2" NPT



Figure 9

BRASS ADAPTER FIGURE 10

Part Number	Female Threads	Male Threads
B219	1/4" NPT	1/4" NPT
B293	1/8" NPT	1/8" NPT
B294	1/4" NPT	1/8" NPT
B296	3/8" NPT	1/4" NPT
B299	1/2" NPT	1/4" NPT



Figure 10

BRASS CONNECTOR FIGURE 11

Part Number	Female Threads	Male Threads
B201	1/8" NPT	1/8" NPT
B207	1/4" NPT	1/8" NPT
B218	1/4" NPT	1/4" NPT
B226	3/8" NPT	1/4" NPT
B227	3/8" NPT	3/8" NPT
B231	1/2" NPT	1/4" NPT
B233	1/2" NPT	1/2" NPT



Figure 11

REDUCER BUSHING FIGURE 12

Part Number	Female Threads	Male Threads
B280	1/4" NPT	1/8" NPT
B281	3/8" NPT	1/8" NPT
B282	3/8" NPT	1/4" NPT
B284	1/2" NPT	1/4" NPT
B285	1/2" NPT	3/8" NPT
B286	3/4" NPT	1/4" NPT
B288	3/4" NPT	1/2" NPT



Figure 12

SMALL BRASS PIPE THREAD FITTINGS, 3000PSI

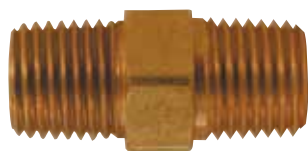


Figure 13

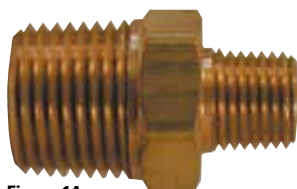


Figure 14

BRASS HEX NIPPLES FIGURE 13*, FIGURE 14*

Part Number	External Thread	External Thread
B200	1/8"NPT	1/8"NPT
B206	1/8"NPT	1/4"NPT
B215*	1/4"NPT	1/4"NPT
B222	3/8"NPT	3/8"NPT
B238	3/8"NPT	1/8"NPT
B239	3/8"NPT	1/4"NPT
B241**	1/2"NPT	1/4"NPT
B242	1/2"NPT	3/8"NPT
B243	1/2"NPT	1/2"NPT
B247	3/4"NPT	3/4"NPT



Figure 15

BRASS ROUND PIPE NIPPLES* FIGURE 15

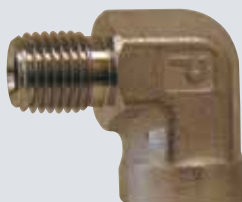
Part Number	External Thread	Overall Length
PNP2-15	1/8"NPT	1 1/2"
PNP4-15	1/4"NPT	1 1/2"
PNP4-20	1/4"NPT	2"
PNP4-25	1/4"NPT	2 1/2"
PNP4-30	1/4"NPT	3"
PNP4-35	1/4"NPT	3 1/2"

316SS HP 6000PSI FITTINGS - CLEANED FOR OXYGEN SERVICE
ECONOMY HP STEEL 5000PSI FITTINGS (• NOT FOR OXYGEN SERVICE)SS - OXYGEN CLEAN
S - NOT CLEAN FOR OXYGEN

STAINLESS 90° ELBOW

Part # PEL-4SS 1/4"F.NPT x 1/4"F.NPT
Part # PEL-4S• 1/4"F.NPT x 1/4"F.NPT

STAINLESS 90° STREET ELBOW

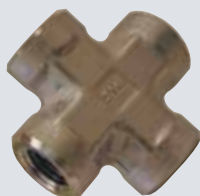
Part # PL-4SS 1/4"F.NPT x 1/4"M.NPT
Part # PL-4S• 1/4"F.NPT x 1/4"M.NPT

STAINLESS 45° STREET ELBOW



Part # PSL-4SS 1/4"F.NPT x 1/4"M.NPT

STAINLESS CROSS

Part # PCR-4SS 1/4"F.NPT All Ports
Part # PCR-4S• 1/4"F.NPT All Ports

STAINLESS TEE

Part # PFT-4SS 1/4"F.NPT All Ports
Part # PFT-4S• 1/4"F.NPT All Ports

STAINLESS CONNECTOR

Part # B218SS 1/4"F.NPT x 1/4"F.NPT
Part # B218S• 1/4"F.NPT x 1/4"F.NPT

STAINLESS HEX NIPPLE

Part # B215SS 1/4"M.NPT x 1/4"M.NPT
Part # B215S• 1/4"M.NPT x 1/4"M.NPT

STAINLESS ADAPTER

Part # B219SS 1/4"M.NPT x 1/4" F.NPT
Part # B219S• 1/4"M.NPT x 1/4" F.NPT



Figure 1
Part # 1050-20 Pipe Nipple



Figure 2
Part # 1075-40 Pipe Nipple



Figure 3
Part # 2233-3HAL
Male x Male Adaptor



Figure 4
Part # 2233-3HL
Male x Male Adaptor



Figure 5
Part # 1125-15 Female x Female Adaptor



Figure 6
Part # 1252 Male x Female Adaptor



Figure 7
Part # 2165-3 Male x Female Adaptor

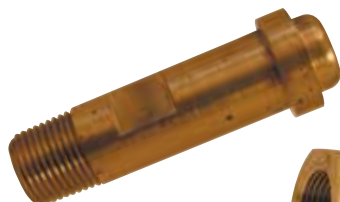


Figure 8
Part # 2233-3A Manifold Tailpiece



Figure 9
Part # 2233-3A Tailpiece & Part # 2223-6
Union Nut Shown as an assembly

STANDARD BRASS MANIFOLD PIPE NOT SHOWN

Part Number	Inside Diameter	Inlet/Outlet Connection	Overall Length	Working Pressure
WHF-3-17	1/2"	Not Available	12 Feet	3600PSI
WHF-3-18	3/4"	Not Available	12 Feet	3600PSI

BRASS MANIFOLD PIPE NIPPLES FIGURE 1 & FIGURE 2

Part Number	Inside Diameter	Inlet/Outlet Connection	Overall Length	Working Pressure
1050-15	1/2"	1/2" M.NPT	1 1/2"	3600PSI
1050-20	1/2"	1/2" M.NPT	2"	3600PSI
1050-40	1/2"	1/2" M.NPT	4"	3600PSI
1050-60	1/2"	1/2" M.NPT	6"	3600PSI
1050-80	1/2"	1/2" M.NPT	8"	3600PSI
1075-20	3/4"	3/4" M.NPT	2"	3600PSI
1075-30	3/4"	3/4" M.NPT	3"	3600PSI
1075-40	3/4"	3/4" M.NPT	4"	3600PSI
1075-50	3/4"	3/4" M.NPT	5"	3600PSI
1075-60	3/4"	3/4" M.NPT	6"	3600PSI

BRASS MANIFOLD MALE X MALE ADAPTERS FIGURE 3 & FIGURE 4

Part Number	Figure	"A" Male Connection	"B" Male Connection	Working Pressure
2233-4HAL	3	1/2" M.NPT	1"-11 1/2" NPS-LH	3000PSI
2233-4HA	N/A	1/2" M.NPT	1"-11 1/2" NPS-RH	3000PSI
2233-4HL	4	3/4" M.NPT	1"-11 1/2" NPS-LH	3000PSI
2233-4H	N/A	3/4" M.NPT	1"-11 1/2" NPS-RH	3000PSI

BRASS MANIFOLD FEMALE X FEMALE ADAPTERS FIGURE 5

Part Number	Figure	"A" Female Connection	"B" Female Connection	Working Pressure
1125-17	N/A	.843-.847	1/2" F.NPT	3000PSI
1125-15	5	1/2" F.NPT	1/2" F.NPT	3000PSI
1044	N/A	3/4" F.NPT	3/4" F.NPT	3000PSI
1125-16	N/A	.843-.847	.843-.847	3000PSI
1044-1	N/A	1.053-1.057	1.053-1.057	3000PSI
1044-2	N/A	1.053-1.057	3/4" F.NPT	3000PSI

BRASS MANIFOLD MALE X FEMALE ADAPTERS FIGURE 6 & FIGURE 7

Part Number	Figure	"A" Male Connection	"B" Female Connection	Working Pressure
1252	6	3/4" M.NPT	1/4" F.NPT	3000PSI
1252A	N/A	3/4" M.NPT	1/2" F.NPT	3000PSI
2165-3	7	1"-11 1/2" NPS-RH	3/4" F.NPT	3000PSI
2165-3B	N/A	1"-11 1/2" NPS-RH	.843-.847	3000PSI
2165-3A	N/A	1"-11 1/2" NPS0-RH	1.053-1.057	3000PSI

BRASS MANIFOLD TAILPIECES FIGURE 8

Part Number	Figure	For Use With Nut 9RH or LH	Pipe Thread or I.D. Pipe	Working Pressure
2233-3A	8	1"-11 1/2" NPS	1/2" M.NPT	3000PSI
2670-35	N/A	1"-11 1/2" NPS	.736 I.D.	3000PSI
GMF-3321	N/A	1"-11 1/2" NPS	3/8" M.NPT	3000PSI
GMF-3326	N/A	1"-11 1/2" NPS	1/2" M.NPT	3000PSI

HEAVY DUTY BRASS ADAPTERS & FITTINGS

BRASS UNION NUTS (USED WITH BRASS TAILPIECES) FIGURE 9

Part Number	Figure	Thread Connection	Working Pressure
2223-6	9	1" - 11 1/2" NPS-RH	3000PSI
2223-6A	9	1" - 11 1/2" NPS-LH	3000PSI

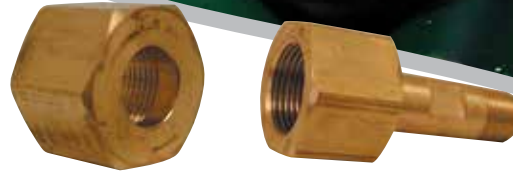


Figure 9
Part # 2223-6 Union Nut

Nut & Tailpiece Combination
Part # 2233-3A Tailpiece & Part # 2223-6 Union Nut
Shown as an assembly

BRASS MANIFOLD ELBOWS FIGURE 10

Part Number	Figure	"A" Female Connection	"B" Female Connection	Working Pressure
1228-1	10	1/2" F.NPT	1/2" F.NPT	3750PSI
HP1228-1	10	1/2" F.NPT	1/2" F.NPT	4500PSI
1043	10	3/4" F.NPT	3/4" F.NPT	4500PSI
1228-2	10	1/2" F.NPT	.843-.847	3750PSI
HP1228-2	10	1/2" F.NPT	.843-.847	4500PSI
2223-2	10	3/4" F.NPT	1.053-1.057	4500PSI
1228-4	10	.843-.847	.843-.847	3750PSI
HP1228-4	10	.843-.847	.843-.847	6000PSI
2223-6	10	1.053-1.057	1.053-1.057	4500PSI

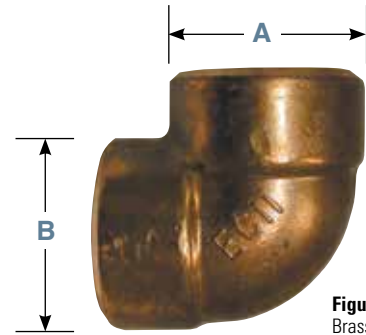


Figure 10
Brass Elbows

HEAVY DUTY BRASS TEES FIGURE 11

Part Number	Figure	"A" Female Connection	"B" Female Connection	"C" Female Connection	Working Pressure
1227-1	11	1/2" F.NPT	1/2" F.NPT	1/2" F.NPT	3750PSI
HP1227-1	11	1/2" F.NPT	1/2" F.NPT	1/2" F.NPT	4500PSI
1042-20	11	3/4" F.NPT	3/4" F.NPT	1/2" F.NPT	4500PSI
1042	11	3/4" F.NPT	3/4" F.NPT	3/4" F.NPT	4500PSI
1227-3	11	1/2" F.NPT	.843-.847	1/2" F.NPT	3750PSI
HP1227-3	11	1/2" F.NPT	.843-.847	1/2" F.NPT	4500PSI
4608-5	11	3/4" F.NPT	1.053-1.057	3/4" F.NPT	4500PSI
1227-28	11	.843-.847	.843-.847	.843-.847	3750PSI
HP1227-28	11	.843-.847	.843-.847	.843-.847	6000PSI
2118-2	11	1.053-1.057	1.053-1.057	1.053-1.057	4500PSI
1227-9	11	.843-.847	.843-.847	1/2" F.NPT	3750PSI
HP1227-9	11	.843-.847	.843-.847	1/2" F.NPT	4500PSI
2223-3	11	1.053-1.057	1.053-1.057	3/4" F.NPT	4500PSI
HP1227-5	11	1/2" F.NPT	1/2" F.NPT	.843-.847	4500PSI
2222-1	11	3/4" F.NPT	3/4" F.NPT	1.053-1.057	4500PSI

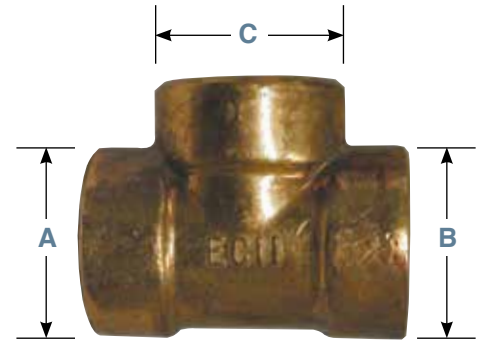


Figure 11
Brass Tees

HEAVY DUTY BRASS CROSSES FIGURE 12

Part Number	Figure	"A" Female Connection	"B" Female Connection	"C" Female Connection	"D" Female Connection	Working Pressure
1225-1	12	1/2" F.NPT	1/2" F.NPT	1/2" F.NPT	1/2" F.NPT	3750PSI
HP1225-1	12	1/2" F.NPT	1/2" F.NPT	1/2" F.NPT	1/2" F.NPT	4500PSI
1045	12	3/4" F.NPT	3/4" F.NPT	3/4" F.NPT	3/4" F.NPT	4500PSI
1225-3	12	.843-.847	.843-.847	1/2" F.NPT	1/2" F.NPT	3750PSI
HP1225-3	12	.843-.847	.843-.847	1/2" F.NPT	1/2" F.NPT	4500PSI
2222-2	12	1.053-1.057	1.053-1.057	3/4" F.NPT	3/4" F.NPT	4500PSI
HP1225-4	12	.843-.847	.843-.847	.843-.847	.843-.847	6000PSI
2222-4	12	1.053-1.057	1.053-1.057	1.053-1.057	1.053-1.057	4500PSI
1045-1	12	1.053-1.057	3/4" F.NPT	3/4" F.NPT	3/4" F.NPT	4500PSI

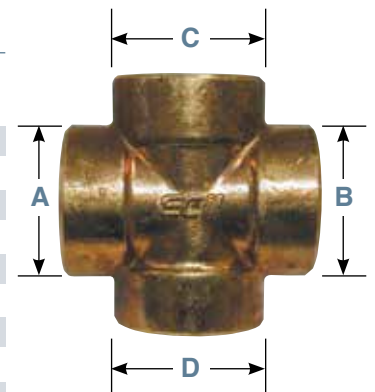


Figure 12
Brass Crosses



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