

# CGA Cylinder Connections

## Standard Service

For nearly a century, the Compressed Gas Association (CGA) has been dedicated to the development and promotion of safety standards and safe practices in the industrial gas industry. CGA fittings, which are used to attach to gas cylinders, are the gas industry standard and are developed through the combined efforts of more than 200 member companies worldwide. Air Liquide offers CGA fittings for use with various gases.

Gas handling equipment that connects to your gas cylinder must have a compatible CGA fitting to mate with the gas cylinder valve outlet. For safety, it is important that you do not force connections. Moreover, never use any pipe dope or PTFE tape with CGA fittings when mating to the cylinder valve.

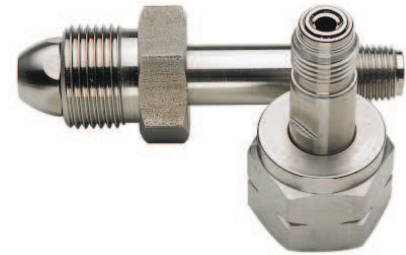
In general, these connections are designed for metal-to-metal sealing. CGA fittings come in brass, chrome-plated and stainless steel, and in a variety of pressures and sizes. A sealing washer is provided on those fittings that do not have a metal-to-metal seal. Adapters from one CGA fitting to another should not be used to connect equipment to a high-pressure cylinder.

Air Liquide offers cylinder connections in a variety of configurations and materials. All Scott™ regulators come equipped with a CGA fitting that matches its intended gas service. Do not change the fitting on regulators. The CGA fitting is specific by gas type. Air Liquide recommends that regulators and sampling systems be dedicated to a specific gas service, especially when the service is with an oxidant or corrosive gas. DISS (Diameter Index Safety Standard) connections are also available for electronic applications—please see our DISS Cylinder Connections datasheet. CGA and DISS illustrations are available, visit [ALspecialtygases.com](http://ALspecialtygases.com) or see catalog page 373.

### Replacement Washers

The CGAs listed below come equipped with a PTFE washer. Replacement washers are shown below.

CGA	Single Washers	Pack of 10 Washers
110	Q6-110-3	Q6-110-3-10
170	Q6-170-3	Q6-170-3-10
180	Q6-180-3	Q6-180-3-10
320 or 330	Q6-330-3	Q6-330-3-10
660 or 670	Q6-660-3	Q6-660-3-10
705	Q6-705-3	Q6-705-3-10



### Benefits/Features

- Connects to cylinder valve
- Includes a PTFE washer when required
- Nonrotating design
- End connection is 1/4" NPT Male

### Optional Configurations

- Integral check valve
- 1/4" male vacuum-type face seal end connections

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CGA Cylinder Connections	Brass		Chrome-Plated Brass	Stainless Steel
	1/4" NPTM	1/4" NPTM with Check Valve	1/4" NPTM	1/4" NPTM
110	Q6-110B-54*		Q6-110C-54	Q6-110SS-54
160	Q6-160B-54*			Q6-160SS-54
165	Q6-165B-54*			Q6-165SS-54*
170	Q6-170B-54*		Q6-170C-54*	Q6-170SS-54*
180	Q6-180B-54*		Q6-180C-54*	Q6-180SS-54*
296	Q6-296B-54	Q6-296B-54CV	Q6-296C-54	Q6-296SS-54
320	Q6-320B-54	Q6-320B-54CV	Q6-320C-54	Q6-320SS-54**
326	Q6-326B-54	Q6-326B-54CV	Q6-326C-54	Q6-326SS-54**
330	Q6-330B-54		Q6-330C-54	Q6-330SS-54**
346	Q6-346B-54	Q6-346B-54CV	Q6-346C-54	
347				Q6-347SS-54
350	Q6-350B-54	Q6-350B-54CV	Q6-350C-54	Q6-350SS-54**
500	Q6-500B-54		Q6-500C-54	
510	Q6-510B-54	Q6-510B-54CV	Q6-510C-54	Q6-510SS-54**
540	Q6-540B-54	Q6-540B-54CV	Q6-540C-54	Q6-540SS-54**
555	Q6-555B-54			
580	Q6-580B-54	Q6-580B-54CV	Q6-580C-54	Q6-580SS-54**
590	Q6-590B-54	Q6-590B-54CV	Q6-590C-54	Q6-590SS-54**
660	Q6-660B-54		Q6-660C-54	Q6-660SS-54**
670				Q6-670SS-54**
677				Q6-677SS-54
678				Q6-678SS-54
679				Q6-679SS-54***
680				Q6-680SS-54
695				Q6-695SS-54
703				Q6-703SS-54
705				Q6-705SS-54

\* Can also be ordered with 1/8" NPT Male.

\*\* Can also be ordered with 1/4" male vacuum-type face seal ends. Connections compatible with 1/4" VCR® fittings.

\*\*\* Washers are constructed of lead and can also be used with CGA 110 connections.