

Cylinder connections are used for connecting various items of gas handling apparatus (such as pressure regulators or pigtailed) directly to high pressure gas cylinders. The actual connection varies depending on the gas in the cylinder and is designated by a three digit code (CGA Connection Number) as set forth in Compressed Gas Association publication V-1. Cylinder connections consist of a CGA nut and CGA nipple and in some cases require a washer for sealing purposes.

Praxair offers cylinder connections in a variety of configurations and materials. One configuration, available in either brass or type 316 stainless steel, features a check valve housed within the CGA nipple. This configuration restricts flow to only one direction, and prevents "backflow" from the process to the cylinder.

Also offered are special type 316L stainless steel cylinder connections which end in a male vacuum-type face seal fitting for use in systems utilizing VCR® or VCR® compatible type fittings.



Specifications		Materials			
<ul style="list-style-type: none"> <li>Pressure Range</li> <li><b>CGA 347, 680, 695 and 701:</b> 3001–5500 psig</li> <li><b>CGA 677, 702 and 703:</b> 5501–7500 psig</li> <li><b>CGA 290, 510, 678 and 679:</b> 0–500 psig</li> <li><b>All Others:</b> 0–3000 psig</li> </ul>	<b>Part Number</b> PRSSG6650-(CGA) PRSSG6650-(CGA)CV PRSSG6651-(CGA) PRSSG6651-(CGA)CV PRSSG6651-(CGA)VM PRSSG6652-(CGA)	<b>CGA Nipple</b> Brass Brass Type 316 Stainless Steel Type 316 Stainless Steel Type 316L Stainless Steel Monel	<b>CGA Nut</b> Brass Brass Type 316 Stainless Steel Type 316 Stainless Steel Type 316 Stainless Steel Monel	<b>Check Valve Seat</b> NA EPDM NA Viton® NA NA	*(CGA)* shown above indicates that the various CGA connections, listed in the Ordering Information, are used to make up complete part numbers.

Ordering Information – Brass and Monel							
CGA Number	Brass		Brass with Check Valve		Monel		Teflon® Washers (Package of 25)
	Part Number	Outlet Connection	Part Number	Outlet Connection	Part Number	Outlet Connection	Part Number
170	PRSSG6650-170*	1/8" NPT male	–	–	–	–	PRSSG3542
180	PRSSG6650-180	1/8" NPT male	–	–	–	–	PRSSG3541
320	PRSSG6650-320	1/4" NPT male	PRSSG6650-320CV	1/4" NPT male	PRSSG6652-320	1/4" NPT male	PRSSG6076
326	PRSSG6650-326	1/4" NPT male	PRSSG6650-326CV	1/4" NPT male	–	–	–
330	–	–	–	–	PRSSG6652-330	1/4" NPT male	PRSSG6076
346	PRSSG6650-346	1/4" NPT male	PRSSG6650-346CV	1/4" NPT male	–	–	–
350	PRSSG6650-350	1/4" NPT male	PRSSG6650-350CV	1/4" NPT male	–	–	–
500	PRSSG6650-500*	1/4" NPT male	–	–	–	–	–
510	PRSSG6650-510	1/4" NPT male	PRSSG6650-510CV	1/4" NPT male	–	–	–
540	PRSSG6650-540	1/4" NPT male	PRSSG6650-540CV	1/4" NPT male	–	–	–
580	PRSSG6650-580	1/4" NPT male	PRSSG6650-580CV	1/4" NPT male	–	–	–
590	PRSSG6650-590	1/4" NPT male	PRSSG6650-590CV	1/4" NPT male	–	–	–
660	PRSSG6650-660	1/4" NPT male	–	–	PRSSG6652-660	1/4" NPT male	PRSSG6075
670	–	–	–	–	PRSSG6652-670	1/4" NPT male	PRSSG6075

\* Connection is chrome-plated brass.

Ordering Information – Cylinder Connections (Stainless Steel)							
CGA Number	Type 316 Stainless Steel		Type 316 SS with Check Valve		Type 316L Stainless Steel		Teflon Washers (Package of 25)
	Part Number	Outlet Connection	Part Number	Outlet Connection	Part Number	Outlet Connection	Part Number
180	PRSSG6651-180	1/8" NPT male	–	–	–	–	PRSSG3541
320	PRSSG6651-320	1/4" NPT male	PRSSG6651-320CV	1/4" NPT male	PRSSG6651-320VM	1/4" male Vacuum*	PRSSG6076
326	PRSSG6651-326	1/4" NPT male	PRSSG6651-326CV	1/4" NPT male	PRSSG6651-326VM	1/4" male Vacuum*	–
330	PRSSG6651-330	1/4" NPT male	PRSSG6651-330CV	1/4" NPT male	PRSSG6651-330VM	1/4" male Vacuum*	PRSSG6076
346	PRSSG6651-346	1/4" NPT male	PRSSG6651-346CV	1/4" NPT male	PRSSG6651-346VM	1/4" male Vacuum*	–
350	PRSSG6651-350	1/4" NPT male	PRSSG6651-350CV	1/4" NPT male	PRSSG6651-350VM	1/4" male Vacuum*	–
510	PRSSG6651-510	1/4" NPT male	PRSSG6651-510CV	1/4" NPT male	PRSSG6651-510VM	1/4" male Vacuum*	–
540	PRSSG6651-540	1/4" NPT male	PRSSG6651-540CV	1/4" NPT male	PRSSG6651-540VM	1/4" male Vacuum*	–
580	PRSSG6651-580	1/4" NPT male	PRSSG6651-580CV	1/4" NPT male	PRSSG6651-580VM	1/4" male Vacuum*	–
590	PRSSG6651-590	1/4" NPT male	PRSSG6651-590CV	1/4" NPT male	PRSSG6651-590VM	1/4" male Vacuum*	–
660	PRSSG6651-660	1/4" NPT male	PRSSG6651-660CV	1/4" NPT male	PRSSG6651-660VM	1/4" male Vacuum*	PRSSG6075
670	PRSSG6651-670	1/4" NPT male	PRSSG6651-670CV	1/4" NPT male	PRSSG6651-670VM	1/4" male Vacuum*	PRSSG6075
677	PRSSG6651-677	1/4" NPT male	PRSSG6651-677CV	1/4" NPT male	–	–	–
678	PRSSG6651-678	1/4" NPT male	–	–	PRSSG6651-678VM	1/4" male Vacuum*	PRSSG6077
679	PRSSG6651-679	1/4" NPT male	–	–	PRSSG6651-679VM	1/4" male Vacuum*	PRSSG3543**
680	PRSSG6651-680	1/4" NPT male	–	–	–	–	–
695	PRSSG6651-695	1/4" NPT male	–	–	–	–	–
702	PRSSG6651-702	1/4" NPT male	–	–	–	–	–
703	PRSSG6651-703	1/4" NPT male	–	–	–	–	–
705	PRSSG6651-705	1/4" NPT male	–	–	–	–	PRSSG6078

\* Connection is compatible with 1/4" VCR® fittings.

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