

GUIDE TO PRODUCT DESCRIPTIONS

Compressed Gas Association (CGA) numbers identify products intended for specific gas services. All Western fittings are manufactured to CGA standards.

In addition to CGA numbers, many popular fittings commonly are referred to as A-Size, B-Size, C-Size and D-Size. These letter identifications also are included in our product descriptions.

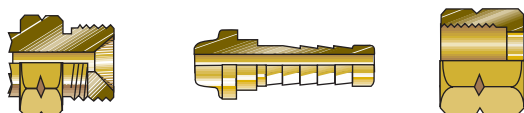
CGA limits pressure ratings on A, B, C and D sized fittings to 200 PSIG (1,378 kPa) maximum working pressure. Kilopascals (kPa) are the metric unit of measure similar to Pounds Per Square Inch Gauge (PSIG). BAR is the British unit of measure similar to PSIG.

(See Conversion Chart Below)

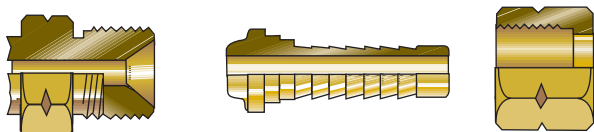
A-B-C-D-SIZES FOR OXYGEN/FUEL GAS



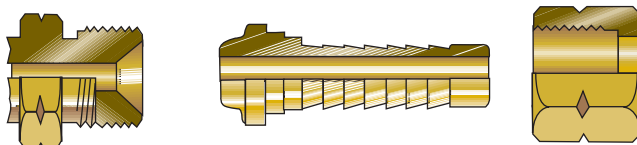
A-SIZE: 3/8"-24 UNF
RH Connection: CGA-020 For Oxygen
LH Connection: CGA-021 For Fuel Gases



B-SIZE: 9/16"-18 UNF
RH Connection: CGA-022 For Oxygen
LH Connection: CGA-023 For Fuel Gases

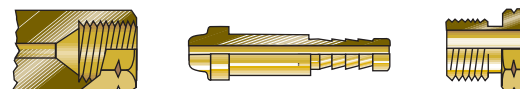


C-SIZE: 7/8"-14 UNF
RH Connection: CGA-024 For Oxygen
LH Connection: CGA-025 For Fuel Gases

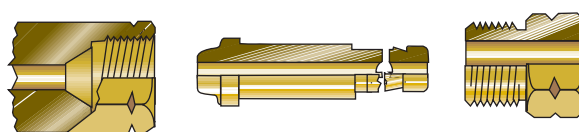


D-SIZE: 1-1/4"-12 UNF
RH Connection: CGA-026 For Oxygen
LH Connection: CGA-027 For Fuel Gases

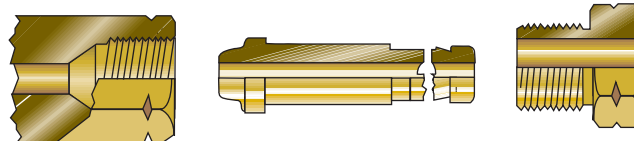
A-B-C-D-SIZES FOR GAS/WATER/AIR



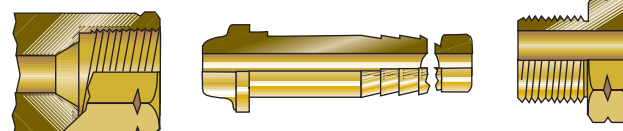
A-SIZE: 3/8"-24 UNF
RH Connection: CGA-030 For Inert Gases
LH Connection: CGA-031 For Water & Industrial Air



B-SIZE: 5/8"-18 UNF
RH Connection: CGA-032 For Inert Gases
LH Connection: CGA-033 For Water & Industrial Air



C-SIZE: 7/8"-14 UNF
RH Connection: CGA-034 For Inert Gases
LH Connection: CGA-035 For Water & Industrial Air



D-SIZE: 1-1/4"-12 UNF
RH Connection: CGA-036 For Inert Gases
LH Connection: CGA-037 For Water & Industrial Air

**METRIC CONVERSION – PSIG TO kPa
1 PSIG = 6.89 kPa OR 1 PSIG = 0.069 BAR**

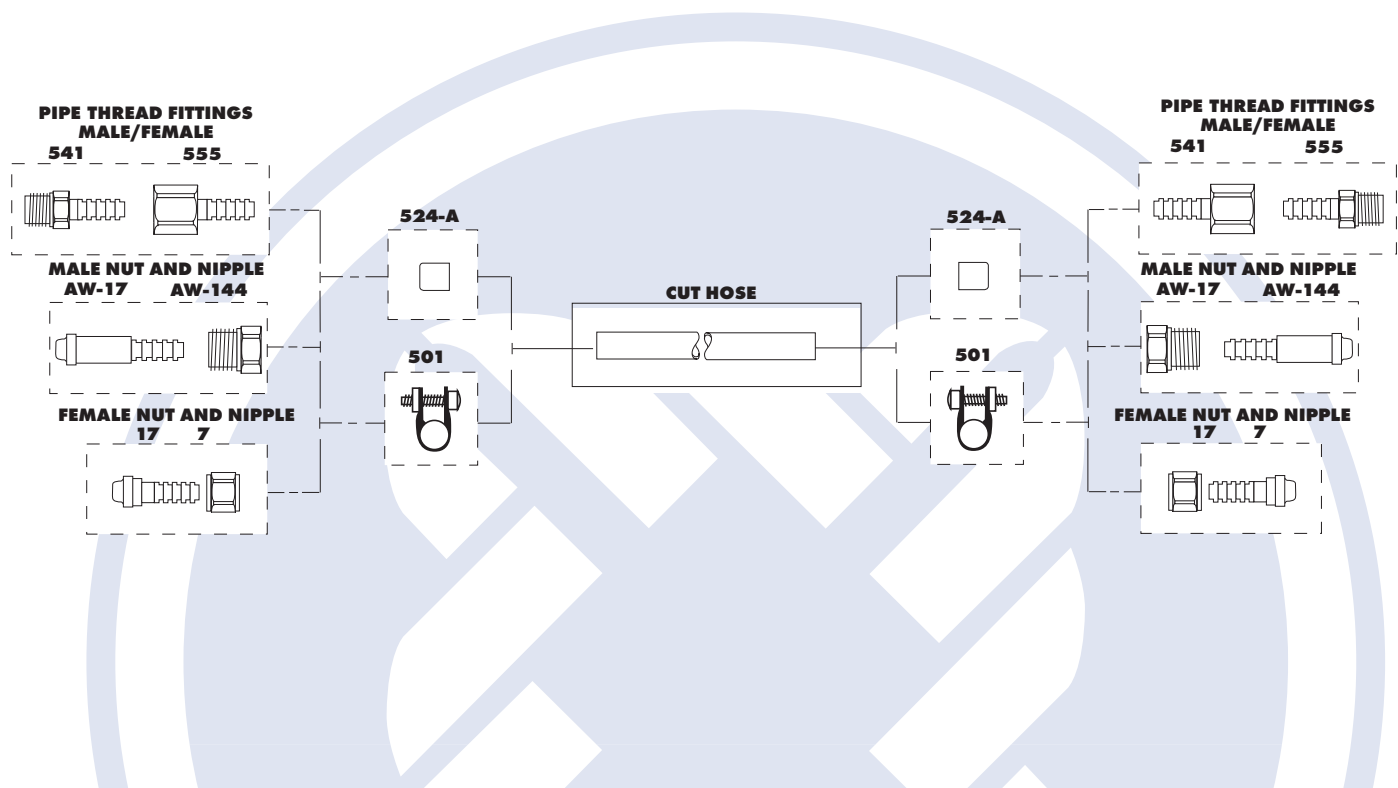
The following PSIG and kPa conversions are used throughout this catalog. Kilopascals conversions are provided whenever possible.

200 PSIG	=1,378 kPa	or 13.8 BAR
400 PSIG	=2,756 kPa	or 27.6 BAR
500 PSIG	=3,445 kPa	or 34.5 BAR
3000 PSIG	=20,670 kPa	or 207 BAR
4000 PSIG	=27,560 kPa	or 276 BAR
5500 PSIG	=37,895 kPa	or 379 BAR
6000 PSIG	=41,340 kPa	or 414 BAR

FITTED HOSE ASSEMBLIES

Barbed hose fittings should be fabricated using clamps or crimped ferrules, (see drawing below). Western barbed hose fittings are rated to 200 PSIG maximum working pressure; however, this rating is applicable only to fitted hose assemblies

fabricated as described and shown in the drawing below. Hose repair kits include the tools needed to fabricate and assemble the fittings on the hose.



COMMON CONVERSIONS USED IN THE COMPRESSED GAS INDUSTRY

PRESSURE

$$\begin{aligned} \text{PSIG} &= 14.5 \times \text{BAR} \\ \text{Pa} &= 6,894.757 \times \text{PSIG} \\ \text{kPa} &= 6.894757 \times \text{PSIG} \\ \text{PSIG} &= \frac{\text{Pa}}{6894.757} \\ \text{PSIG} &= \frac{\text{kPa}}{6.894757} \end{aligned}$$

UNITS

- PSIG:** Pounds Per Square Inch Gauge
- Pa:** Pascal
- kPa:** 1000 Pascal
- SCFH:** Standard Cubic Feet per Hour
- SCFM:** Standard Cubic Feet per Minute
- LPM:** Liters per Minute

FLOW

$$\begin{aligned} \text{SCFH} &= 2.118 \times \text{LPM} \\ \text{SCFH} &= 60 \times \text{SCFM} \\ \text{LPM} &= \frac{\text{SCFM}}{2.118} \end{aligned}$$