

## product description guide

**Superior Products, Inc.** has made every effort to publish the most helpful and comprehensive catalog of compressed gas products available. With safety and accurate product specification as top priorities, our product descriptions include information on sizes, operating pressures, application, construction materials, CGA numbers, and all other relevant information.

**CGA numbers** identify products intended for specific gas services. All Superior fittings are manufactured to Compressed Gas Association standards.

In addition to CGA numbers, many popular fittings are commonly referred to as “**A**”, “**B**”, “**C**”, and “**D**” sized fittings. For your convenience, these letter identifications are also included in our product descriptions as “**A**”, “**B**”, “**C**”, and “**D**”. **Pressure ratings** on A, B, C, and D sized fittings included on these pages are limited by the CGA to 200 PSI (1400 kPa) maximum working pressure. Kilopascals (kPa) are the metric equivalent of Pounds Per Square Inch (PSI).

### gas acronyms used

(not all standard)

<b>CGA</b> Compressed Gas Association	<b>RH</b> Right Handed
<b>NGO</b> National Gas Outlet	<b>LH</b> Left Handed
<b>NPT</b> National Pipe Thread	<b>WT</b> Wrench Tight
<b>UNS</b> Unified Numbering System	<b>HT</b> Hand Tight
<b>PSI</b> Pounds per Square Inch	<b>QC</b> Quick Connect
<b>EXT</b> External (M - Male Thread)	<b>CP</b> Chrome Plated
<b>INT</b> Internal (F - Female Thread)	<b>ID</b> Inside Diameter
<b>CS</b> Countersunk	<b>OD</b> Outside Diameter

### metric conversion

### PSI to kPa to Bar

The following conversions are used throughout this catalog, rounded off for ease of use. Kilopascals & Bar conversions are provided whenever possible. (1 PSI = 6.89 kPa = .07 Bar)

200 PSI = 1379 kPa = 14 Bar	3000 PSI = 20685 kPa = 207 Bar
400 PSI = 2758 kPa = 28 Bar	4500 PSI = 27580 kPa = 310 Bar
500 PSI = 3400 kPa = 35 Bar	5500 PSI = 37920 kPa = 380 Bar
1000 PSI = 6895 kPa = 70 Bar	6000 PSI = 41370 kPa = 414 Bar

### maximum gas withdrawal rates for liquified gases

#### **CRYOGENIC CYLINDERS**

CO<sub>2</sub> - 110 SCFH

NITROUS OXIDE - 80 SCFH

ARGON, NITROGEN, OXYGEN - 75 SCFH

#### **HIGH PRESSURE W/LIMITED WITHDRAWL RATE**

CO<sub>2</sub> 50 - SCFH

NITROUS OXIDE - 50 SCFH

ACETELYNE - 1/10 CYL CAPACITY/HOUR

### part type letter prefix

Adaptors - Outlet	<b>A</b>
Bushings - Pipe	<b>B</b>
Brass Tubing	<b>BT</b>
Cable Connectors	<b>CN</b>
Check Valves	<b>CV</b>
Couplers - Tees	<b>C</b>
Copper Tubing	<b>CT</b>
Crimping Tools	<b>KT</b>
Dust Caps & Chain	<b>CC</b>
Elbow	<b>EL</b>
Cryogenic Elbow	<b>CEL</b>
Cryogenic Flexible Hose	<b>CHF</b>
Cryo Hand Tight with Elbow	<b>CHTE</b>
Cryogenic Phase Separator	<b>CPS</b>
Check Valves	<b>CV</b>
Filters	<b>F</b>
Flare Adaptors	<b>FA</b>
Flash Back Arrestor	<b>FA</b>
Gas Manifold Assemblies	<b>GMA</b>
Gas Manifold Fittings	<b>GMF</b>
Hand Tight Cryogenic	<b>HTC</b>
Hand Tight Nuts	<b>HTN</b>
Hose Repair Kits	<b>RK</b>
Manifold Blocks	<b>MB</b>
Chrome Nuts	<b>MN</b>
Chrome Nipples	<b>MNP</b>
Leak Detector	<b>LD</b>
Flexible Pigtaills	<b>PTF</b>
Nipples	<b>NP</b>
Nuts	<b>N</b>
NPT Male	<b>MNPT</b>
NPT Female	<b>FNPT</b>
'O' Rings	<b>OR</b>
Pigtaills Rigid	<b>PT</b>
Pigtaills Flexible	<b>PTF</b>
Plastic Tips	<b>T</b>
Plugs & Chains	<b>PC</b>
Power Cable Holders	<b>PCH</b>
Reverse Flow Check Valve	<b>RCV</b>
Splicers	<b>S</b>
Stainless Steel	<b>SS</b>
Snap Rings	<b>SR</b>
Valves	<b>V</b>
Washers	<b>W</b>
"Y" Connectors	<b>Y</b>
"Y" Connectors with Valves	<b>YV</b>