

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)

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

CO₂ - 110 SCFH

NITROUS OXIDE - 80 SCFH

ARGON, NITROGEN, OXYGEN - 75 SCFH

HIGH PRESSURE W/LIMITED WITHDRAWL RATE

CO₂ 50 - SCFH

NITROUS OXIDE - 50 SCFH

ACETELYNE - 1/10 CYL CAPACITY/HOUR

part type letter prefix

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