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Single
Stage

Dual
Stage

Flow
Control

Pipeline

Liquid
Cylinder

Special
Use

Cutting
Torches

Attachments
& Handles

Cutting
Tips

Heating
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Flowcurves

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Single
StageDual
StageFlow
Control

Pipeline

Liquid
CylinderSpecial
UseCutting
TorchesAttachments
& HandlesCutting
TipsHeating
Tips

Outfits

Accessories

Flowcurves

9600 Series Single Stage Regulator



Heavy Duty Heating and Cutting

Features

- Convuluted Neoprene® Diaphragm
 - *Steady pressure control*
- Large Seat Displacement
 - *High flow capacity*
- 2.5" PSI/kPa Pressure Gauges
 - *Excellent visibility*

Material

- Heavy Forged Brass Body
- PTFE Seat
- Glass Wool Inlet Filter

Specification

- 3000 psi Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-9600 Shown

Gas Service	Stock Number	Inlet CGA	Delivery Range PSIG	Outlet Fittings	Pressure Gauges
Oxygen	806-9600	540	0-180 PSIG	9/16"-18 "B" RH Ext.	400 & 4000 PSIG
	806-9606	540	0-120 PSIG	9/16"-18 "B" RH Ext.	200 & 4000 PSIG
Acetylene, Fuel Gases	806-9602	300	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG
	806-9609	510	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG
MAPP, Propylene, Propane (Not for Acetylene)	806-9632	510	0-40* PSIG	9/16"-18 "B" LH Ext.	60 & 400 PSIG
Argon, Nitrogen, Helium	806-9605	580	0-180 PSIG	5/8"-18 "B" RH Int.	400 & 4000 PSIG
Argon, Helium, W.P. Nitrogen	806-9621	580	0-40 PSIG	5/8"-18 "B" RH Int.	60 & 4000 PSIG
Nitrogen O.P.	806-9622	555	0-180 PSIG	5/8"-18 "B" RH Int.	400 & 4000 PSIG
CO ₂	806-9675	320	0-40 PSIG	5/8"-18 "B" RH Int.	60 & 4000 PSIG

* Acetylene should not be used over 15 PSIG

7400 Series Single Stage Regulator

Light Duty Welding and Cutting

Single
Stage

Features

- Rear entry
 - *Compact design*
- Small Seat Displacement
 - *Moderate flow capacity*
- 1.5" (38mm) Neoprene® Diaphragm
 - *Excellent low end performance*

Material

- Bar Stock Brass Body
- PTFE Seat
- 25 Micron Stainless Inlet Filter

Specification

- 3000 psi Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-7475 Shown

Gas Service	Stock Number	Inlet CGA	Delivery Range PSIG	Outlet Fittings	Pressure Gauges
Acetylene	806-7452	520	0-8 PSIG	3/8-24 "A" LH Ext.	400 PSIG
	806-7462	200	0-8 PSIG	3/8-24 "A" LH Ext.	400 PSIG
L.P. Gas (Not for Acetylene)	806-7432	510	0-40 PSIG	3/8-24 "A" LH Ext.	60 PSIG
	806-7442	510	Preset 15 PSIG	3/8-24 "A" LH Ext.	None
Argon	806-7475 (MIG Kit No. 806-7476)	580	Preset 25 CFH	5/8-18 "B" RH Int.	4000 PSIG
Tote-Weld Regulators** - 1 1/2" Gauges					
Oxygen	806-7416	540	0-60 PSIG	3/8-24 "A" RH Ext.	4000 PSIG
Acetylene	806-7472	200	0-15 PSIG (Max)	3/8-24 "A" LH Ext.	375 PSIG

* Flow Control Model; **Have Built-in Check Valves

6700 Series Single Stage Regulator



High Flow Heavy Duty Heating and Cutting

Features

- ½" Seat and Ports
 - *Ultra high flow*
- Balance Stem Seat
 - *Steady pressure control with decaying inlet conditions*
- Heavy Forged Brass Bonnet
 - *High Durability*

Material

- Heavy Bar Stock Brass Body
- Viton® or Neoprene® Seat
- 40 Micron Stainless Dome Inlet Filter

Specification

- 3000 psi Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-6706 Shown

Series	Gas Service	Stock Number	Inlet CGA	Delivery Range PSIG	Outlet Fittings	Inlet Position
6700	Oxygen	806-6706	540	0-125 PSIG	"C" RH Ext.	200 and 4000 PSIG
		806-6716	540	0-200 PSIG	"C" RH Ext.	400 and 4000 PSIG
		806-6717	540	0-200 PSIG	"B" RH Ext.	400 and 4000 PSIG
	Acetylene*	806-6702	300	0-15 PSIG	"C" LH Ext.	30 and 400 PSIG
		806-6709	510	0-15 PSIG	"C" LH Ext.	30 and 400 PSIG
		806-6710	410	0-15 PSIG	"B" LH Ext.	30 and 400 PSIG
	Fuel Gas**	806-6732	510	0-40 PSIG	"C" LH Ext.	60 and 400 PSIG
		806-6733	510	0-40 PSIG	"B" LH Ext.	60 and 400 PSIG
	Argon, Nitrogen, Helium, CO ₂ Mixtures	806-6703	580	0-200 PSIG	"C" RH Int.	400 and 4000 PSIG
		806-6705	580	0-125 PSIG	"C" RH Int.	200 and 4000 PSIG
	Hydrogen/Methane	806-6707	350	0-125 PSIG	"C" LH Ext.	200 and 4000 PSIG
	Compressed Air	806-6708	346	0-125 PSIG	"C" RH Int.	200 and 4000 PSIG
		806-6718	346	0-200 PSIG	"C" RH Int.	400 and 4000 PSIG
	Carbon Dioxide (CO ₂)	806-6787	320	0-125 PSIG	"C" RH Int.	200 and 4000 PSIG
		806-6788	320	0-200 PSIG	"C" RH Int.	400 and 4000 PSIG

* Acetylene should not be used over 15 PSIG



6600 Series Single Stage Regulator

Single
Stage

Medium-Heavy Duty Rugged Welding, Heating and Cutting

Features

- Heavy Forged Brass Bonnet
 - *High Durability*
- Medium-Large Seat Displacement
 - *Good flow capacity*
- Capsule® Seat Assembly
 - *High cycle life*

Material

- Forged Brass Body
- PTFE Seat
- 25 Micron Bronze Capsule® Filter

Specification

- 3000 psi Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



Gas Service	Stock Number	Inlet CGA	Delivery Range PSIG	Outlet Fittings	Pressure Gauges
Oxygen	806-6606	540	0-120 PSIG	9/19-18 "B" RH Ext.	200 & 4000 PSIG
	806-6686	540	0-250 PSIG	1/4" NPT (M)	400 & 4000 PSIG
Acetylene	806-6602	300	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG
Acetylene, MAPP, Propylene & Propane**	806-6609	510	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG
Propylene, MAPP, Propane (not for acetylene)**	806-6632	510	0-40* PSIG	9/16"-18 "B" LH Ext.	60 & 400 PSIG
Argon, Nitrogen, Helium†	806-6601	580	0-120 PSIG	5/8-18 "B" RH Int.	200 & 4000 PSIG
	806-6611	580	0-250 PSIG	1/4" NPT (M)	400 & 4000 PSIG
Hydrogen Methane**	806-6681	350	0-40 PSIG	9/16"-18 "B" LH Ext.	60 & 4000 PSIG
Industrial Air	806-6603	590	0-120 PSIG	1/4" NPT (M)	200 & 4000 PSIG
	806-6613	590	0-250 PSIG	1/4" NPT (M)	400 & 4000 PSIG
Breathing Air	806-6608	346	0-120 PSIG	1/4" NPT (M)	200 & 4000 PSIG
	806-6618	346	0-250 PSIG	1/4" NPT (M)	400 & 4000 PSIG
Air	806-6643	347 (5500 PSIG Max.)	0-250 PSIG	1/4" NPT (M)	400 & 6000 PSIG

Option	Stock Number
Panel Mount Kit	830-6479

* Acetylene should not be used over 15 PSIG

** Fuel Gas

† Inert Gas

6500 Series Single Stage Regulator



Medium-Heavy Duty Welding, Heating and Cutting

Features

- 2.5" (63mm) Neoprene® Diaphragm
 - *Steady pressure control*
- Medium-Large Seat Displacement
 - *Good flow capacity*
- Capsule® Seat Assembly
 - *High cycle life*

Material

- Heavy Forged Brass Body
- PTFE/PCTFE Seat
- 25 Micron Bronze Capsule® Filter

Specification

- 3,000/5,500 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-6506 Shown



Gas Service	Stock Number	Inlet CGA	Delivery Range PSIG	Outlet Fittings	Pressure Gauges
Oxygen	806-6506	540	0-120	9/16"-18 "B" RH Ext.	200 & 4000 PSIG
	806-6586	540	0-40	9/16"-18 "B" RH Ext.	60 & 4000 PSIG
	806-6566	540	0-100	9/16"-18 "B" RH Ext.	Gaugeless
Acetylene	806-6502	300	0-15*	9/16"-18 "B" LH Ext.	30 & 400 PSIG
	806-6562	300	0-15*	9/16"-18 "B" LH Ext.	Gaugeless
Acetylene, Propylene and Propane**	806-6509	510	0-15*	9/16"-18 "B" LH Ext.	30 & 400 PSIG
	806-6569	510	0-15*	9/16"-18 "B" LH Ext.	Gaugeless
Propylene, Propane**	806-6532	510	0-40*	9/16"-18 "B" LH Ext.	60 & 400 PSIG
Argon, Nitrogen, Helium†	806-6505	580	0-120	5/8"-18 "B" RH Int.	200 & 4000 PSIG
	806-6585	580	0-40	5/8"-18 "B" RH Int.	60 & 4000 PSIG
Hydrogen Methane**	806-6581	350	0-40	9/16"-18 "B" LH Ext.	60 & 4000 PSIG
CO ₂	806-6587	320	0-40	5/8"-18 "B" RH Int.	60 & 4000 PSIG
Industrial Air	806-6503	590	0-120	1/4" NPT (M)	200 & 4000 PSIG
	806-6583	590	0-40	1/4" NPT (M)	60 & 4000 PSIG
Breathing Air	806-6508	346	0-120	1/4" NPT (M)	200 & 4000 PSIG
	806-6588	346	0-40	1/4" NPT (M)	60 & 4000 PSIG
High Pressure Regulators					
Oxygen	806-6546	577 (4000 PSIG Max.)	0-120	9/16"-18 "B" RH Ext.	200 & 6000 PSIG
Compressed Air	806-6543	347 (5500 PSIG Max.)	0-120	5/8"-18 "B" RH Int.	200 & 6000 PSIG
Inert	806-6544	680 (5500 PSIG Max.)	0-120	5/8"-18 "B" RH Int.	200 & 6000 PSIG

* Acetylene should not be used over 15 PSIG



5600 Series Single Stage Regulator

Medium Duty Rugged Welding, Heating and Cutting

Single
Stage

Features

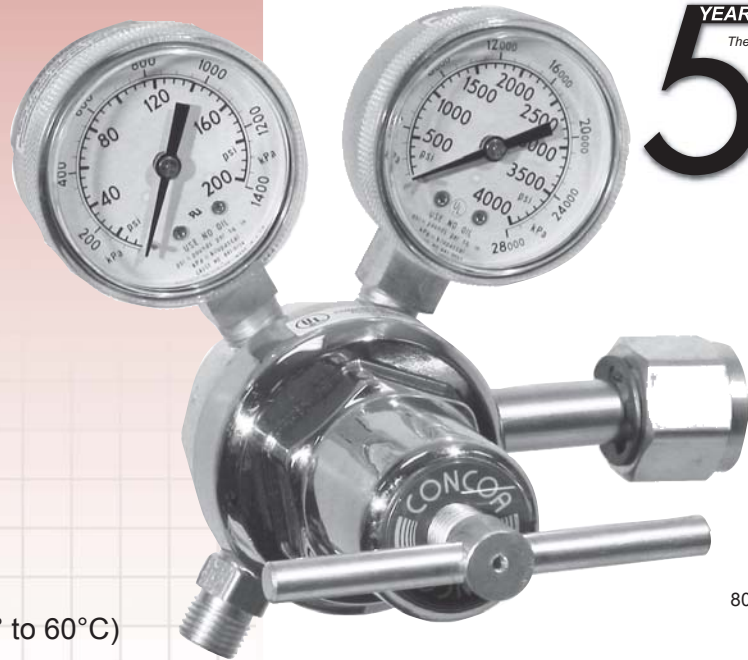
- Heavy Forged Brass Bonnet
 - *High Durability*
- Medium Seat Displacement
 - *Good flow capacity*
- Capsule® Seat Assembly
 - *High cycle life*

Material

- Forged Brass Body
- PTFE Seat
- 25 Micron Bronze Capsule® Filter

Specification

- 3000 psi Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



5 YEAR WARRANTY

5

The CONCOA Capsule® is warranted for five years to be free of defects in materials and workmanship.



806-5606 Shown

Gas Service	Stock Number	Inlet CGA	Delivery Range PSIG	Outlet Fittings	Pressure Gauges
Oxygen	806-5606	540	0-125 PSIG	9/16"-18"B" RH Ext.	200 & 4000 PSIG
	806-5616	540	0-250 PSIG	1/4" NPT (M)	400 & 4000 PSIG
Acetylene	806-5602	300	0-15** PSIG	9/16"-18"B" RH Ext.	30 & 400 PSIG
Acetylene, MAPP, Propylene and Propane (Fuel Gas)	806-5609	510	0-15** PSIG	9/16"-18"B" LH Ext.	30 & 400 PSIG
Propylene, MAPP, Propane (Fuel Gas)	806-5632 (not for Acetylene)	510	0-40** PSIG	9/16"-18"B" RH Ext.	60 & 400 PSIG
Argon, Nitrogen, Helium (Inert Gas)	806-5601	580	0-120 PSIG	5/8"-18"B" RH Int.	200 & 4000 PSIG
	806-5611	580	0-250 PSIG	1/4" NPT (M)	400 & 4000 PSIG
Hydrogen Methane	806-5681	350	0-40 PSIG	9/16"-18"B" LH Ext.	60 & 4000 PSIG
Industrial Air	806-5603	590	0-125 PSIG	1/4" NPT (M)	200 & 4000 PSIG
	806-5613	590	0-250 PSIG	1/4" NPT (M)	400 & 4000 PSIG
Breathing Air	806-5608	346	0-125 PSIG	1/4" NPT (M)	200 & 4000 PSIG
	806-5618	346	0-250 PSIG	1/4" NPT (M)	400 & 4000 PSIG

** Acetylene should not be used over 15 PSIG.

56H Series Single Stage Regulator



Medium-Heavy Duty Welding, Heating and Cutting

Features

- 1.5" (38mm) 316L Stainless Diaphragm
 - Cold Climate Performance
- High Leak Integrity
 - Critical environment performance
- Capsule® Seat Assembly
 - High cycle life

Material

- Brass Bar Stock Body
- PTFE/PCTFE Seat
- 25 Micron Bronze Capsule® Filter

Specification

- 3,000/5,500 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



56H-5311 Shown

56H-	A	B	C	D	-Inlet	Options	
Series	Outlet Pressure	Outlet Gauge	Configuration Type	Outlet Assemblies	Assembly/Orientation	Inlet Connection	Installed Options
56H				0: ¼" FPT Port		000: ¼" FPT	A: Protocol Alarm Station (110V)
	1: 0-15*	30" 0-30 PSIG	0: Line Regulator 3000 PSIG	1: ¼" MPT	1: Cylinder Regulator Right Hand Inlet	TF2: ⅝" Tube	B: Protocol Alarm Station (220V)
	2: 0-50	30" 0-100 PSIG		2: ¼" Tube Fitting		TF4: ¼" Tube	C: Protocol Switchover Station
	3: 0-100	30" 0-200 PSIG	3: Cylinder Regulator 3000 PSIG	3: Diaphragm Valve ¼" Tube Fitting		TF6: ⅝" Tube	D: Deep Purge
	4: 0-250	0-400 PSIG		4: Diaphragm Valve ¼" MPT		M06: 6mm Tube	G: Protocol Switchover Station with Alarm (110V)
	5: 0-500	0-1000 PSIG		5: Needle Valve ¼" MPT		CGA, DIN 477, BS 341 and other inlet connections available	H: Protocol Switchover Station with Alarm (220V)
				6: ⅝" Tube Fitting	6: Line Regulator Right Hand Inlet		M: Protocol
	7: 0-150	30" 0-200 PSIG	7: Cylinder Regulator 300 PSIG*	7: ⅝" Tube Fitting	7: Line Regulator Bottom Inlet		
	8: 0-15	0-15 PSIG*	8: Cylinder Regulator 4500 PSIG	8: Diaphragm Valve ⅝" Tube Fitting			
			9: Line Regulator 300 PSIG*	9: Diaphragm Valve			
				A: ⅝" BSP Right Hand Fitting			
				B: Right Hand "B" Fitting			
				C: Left Hand "B" Fitting			
				D: Inert Fitting			
				M: 6mm Tube Fitting			
				S: Diaphragm Valve 6mm Tube Fitting			

*With redline for acetylene use
Note: Acetylene should not be used over 15 PSIG



5500 Series Single Stage Regulator

Medium Duty Rugged Welding, Heating and Cutting

Single
Stage

Features

- 2" (50mm) Diaphragm with Integral Self Seating Relief Valve
 - *Tamper proof safety*
- Medium Seat Displacement
 - *Good flow capacity*
- Capsule® Seat Assembly
 - *High cycle life*

Material

- Forged Brass Body
- PTFE Seat
- 25 Micron Bronze Capsule® Filter

Specification

- 3,000/5,500 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-5506 Shown



Gas Service	Stock Number	Inlet CGA	Delivery Range PSIG	Outlet Fittings	Pressure Gauges
Oxygen	806-5506	540	0- 125 PSIG	9/16"-18 "B" RH Ext.	200 & 4000 PSIG
Acetylene	806-5502	300	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG
Acetylene, Propylene and Propane, MAPP (Fuel Gas)	806-5509	510	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG
MAPP-not for Acetylene (Fuel Gas)	806-5532	510	0-40* PSIG	9/16"-18 "B" LH Ext.	60 & 400 PSIG
Argon, Nitrogen, Helium (Inert Gas)	806-5521	580	0-125 PSIG	5/8-18 "B" RH Int.	200 & 4000 PSIG
Nitrogen (O.P.)	806-5522	555	0-125 PSIG	9/16"-18 "B" LH Ext.	200 & 4000 PSIG
CO ₂	806-5587	320	0-125 PSIG	5/8-18 "B" RH Int.	200 & 4000 PSIG
Special Purpose 5500 Series Regulators					
Oxygen	806-5546	577 (4000 PSIG Max.)	0-125 PSIG	9/16"-18 "B" LH Ext.	200 PSIG/6000 PSIG
Argon-(Inert Gas Flowgauge)	806-5547	680 (5500 PSIG Max.)	20-60 SCFH Argon (20-30 CO ₂)	5/8-18 "B" RH Int.	20-60 SCFH/6000 PSIG (20-30 CO ₂)

* Acetylene should not be used over 15 PSIG

4700 Series Single Stage Regulator



Light Duty Welding and Cutting

Features

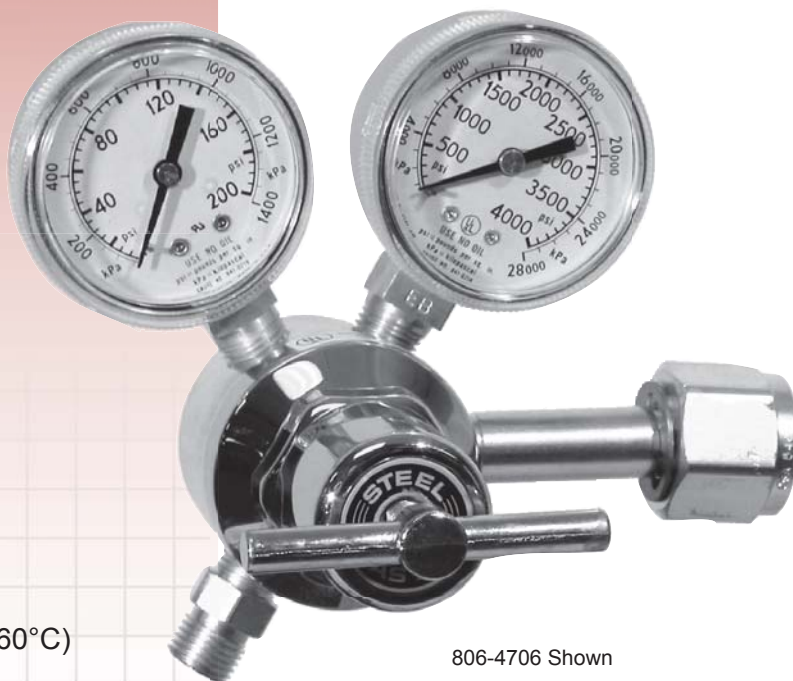
- 1.72" (43.8mm) Neoprene® Diaphragm
 - *Compact design*
- Small Seat Displacement
 - *Moderate flow capacity*
- 2 " PSI/kPa Pressure Gauges
 - *Economical package*

Material

- Brass Bar Stock Body
- PTFE Seat
- Glass Wool Inlet Filter

Specification

- 3,000 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-4706 Shown

Gas Service	Stock Number	Inlet CGA	Delivery Range PSIG	Outlet Fittings	Pressure Gauges
Oxygen	806-4706	540	0-100 PSIG	9/16"-18 "B" RH Ext.	200 & 4000 PSIG
Acetylene	806-4702	300	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG
Acetylene, MAPP®, Propane	806-4709	510	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG

*Acetylene can not be used over 15 PSIG.



8400/9400 Series Dual Stage Regulator

Heavy Duty Rugged Welding, Heating and Cutting

Dual
Stage

Features

- Direct 1st Stage Seat
 - *Allows complete use of cylinder*
- Dead End Flow Passage
 - *Eliminates Seat Ignition*
- Heavy Forged Brass Bonnet
 - *High Durability*

Material

- Heavy Forged Brass Body
- PCTFE First Stage Seat
- Neoprene® Second Stage Seat
- Glass Wool Inlet Filter

Specification

- 3,000 PSI Max Inlet (except for 15 PSI models)
- Temperature Range -40° to 140°F (-40° to 60°C)



806-8435 Shown



806-9402 Shown

Gas Service	Stock Number	Inlet CGA	Delivery Range PSIG	Outlet Fittings	Pressure Gauges
Oxygen	806-8401	540	0-40 PSIG	9/16"-18 "B" RH Ext.	60 & 4000 PSIG
	806-8456	540	0-100 PSIG	9/16"-18 "B" RH Ext.	200 & 4000 PSIG
Acetylene*	806-8402	300	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG
	806-8409	510	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG
Fuel Gas* (Not for Acetylene)	806-8462	510	0-40 PSIG	9/16"-18 "B" LH Ext.	60 & 400 PSIG
Hydrogen Methane	806-8403	350	0-40 PSIG	9/16"-18 "B" LH Ext.	60 & 4000 PSIG
	806-9453	350	0-100 PSIG	9/16"-18 "B" LH Ext.	200 & 4000 PSIG
Argon, Nitrogen, Helium (Inert Gas)	806-9402	580	0-100 PSIG	5/8"-18 "B" RH Int.	200 & 4000 PSIG
	806-9403	580	0-40 PSIG	5/8"-18 "B" RH Int.	60 & 4000 PSIG
	806-8435#	580	0-6 PSIG	5/8"-18 "B" RH Int.	30 & 4000 PSIG
CO ₂	806-9451	320	0-15 PSIG	5/8"-18 "B" RH Int.	30 & 4000 PSIG
Industrial Air	806-9489	590	0-40 PSIG	1/4" NPT (M)	60 & 4000 PSIG
	806-9490	590	0-100 PSIG	1/4" NPT (M)	200 & 4000 PSIG
Breathing Air	806-9491	346	0-40 PSIG	1/4" NPT (M)	60 & 4000 PSIG
	806-9492	346	0-100 PSIG	1/4" NPT (M)	200 & 4000 PSIG

#-Tamper proof model with 3 1/2" 0-10 PSIG Retard Gauge

* Acetylene should not be used over 15 PSIG

6800 Series Dual Stage Regulator



High Flow Heavy Duty Heating and Cutting

Features

- ½" Seat and Outlet Port
 - *Ultra high flow*
- Stainless Diaphragm Model
 - *Cold Climate Performance*
- 2 ½" PSI/kPa Pressure Gauges
 - *Excellent visibility*

Material

- Heavy Bar Stock Brass Body
- PTFE/PCTFE Seat
- 25 Micron Bronze Capsule® Filter

Specification

- 3,000/5,500 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-6800 Shown

Gas Service	Stock Number	Inlet CGA	Delivery Range PSIG	Outlet Fittings	Pressure Gauges
Oxygen	806-6800	540	0-250 PSIG	⅞ -14 "C" RH Ext.	400 & 4000 PSIG
	806-6866**	540	0-250 PSIG	½" SS Tubefittings	400 & 4000 PSIG
	806-6806	540	0-125 PSIG	⅞ -14 "C" RH Ext.	200 & 4000 PSIG
Acetylene, Fuel, Fuel Gas*	806-6802	300	0-15* PSIG	⅞ -14 "C" LH Ext.	30 & 400 PSIG
	806-6809	510	0-15* PSIG	⅞ -14 "C" LH Ext.	30 & 400 PSIG
	806-6832 (Not for Acetylene)	510	0-40* PSIG	⅞ -14 "C" LH Ext.	60 & 400 PSIG
Hydrogen Methane	806-6807	350	0-250 PSIG	⅞ -14 "C" LH Ext.	400 & 4000 PSIG
	806-6813	350	0-125 PSIG	⅞ -14 "C" RH Ext.	200 & 4000 PSIG
Argon, Nitrogen, Helium	806-6805	580	0-250 PSIG	⅞ -14 "C" RH Int.	400 & 4000 PSIG
	806-6803	580	0-125 PSIG	⅞ -14 "C" RH Int.	200 & 4000 PSIG
	806-6865**	580	0-250 PSIG	½" SS Tubefittings	400 & 6000 PSIG
Air	806-6808	346	0-250 PSIG	⅞ -14 "C" RH Int.	400 & 4000 PSIG
	806-6818	346	0-125 PSIG	⅞ -14 "C" RH Int.	200 & 4000 PSIG
Inert	806-6868**	680	0-250 PSIG	½" SS Tubefittings	400 & 6000 PSIG

* Acetylene can not be used over 15 PSIG

** Stainless steel diaphragm



6520 Series Dual Stage Regulator

Medium-Heavy Duty Welding, Heating and Cutting

Features

- Neoprene® Diaphragm
 - *Steady pressure control*
- Medium-Large Seat Displacement
 - *Good flow capacity*
- 2 ½" PSI/kPa Pressure Gauges
 - *Excellent visibility*

Material

- Heavy Forged Brass Body
- PTFE/PCTFE Seat
- 25 Micron Bronze Capsule® Filter

Specification

- 3,000/5,500 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-6520 Shown



Gas Service	Stock Number	Inlet CGA	Delivery Range PSIG	Outlet Fittings	Pressure Gauges
Oxygen	806-6520	540	0-200 PSIG	9/16"-18 "B" RH Ext.	200 & 4000 PSIG
	806-6526	540	0-120 PSIG	9/16"-18 "B" RH Ext.	200 & 4000 PSIG
Acetylene, Fuel Gas*	806-6522	300	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG
	806-6529	510	0-15* PSIG	9/16"-18 "B" LH Ext.	30 & 400 PSIG
Argon, Nitrogen, Helium	806-6523	580	0-200 PSIG	5/8 -18 "B" RH Int.	200 & 4000 PSIG
	806-6525	580	0-120 PSIG	5/8 -18 "B" RH Int.	200 & 4000 PSIG
Argon, Nitrogen, Helium	806-6528	680 (5500 PSIG Max.)	0-120 PSIG	5/8 -18 "B" RH Ext.	200 & 6000 PSIG
Air	806-6527	347 (5500 PSIG Max.)	0-120 PSIG	1/4" NPT (M)	200 & 6000 PSIG

* Acetylene can not be used over 15 PSIG

9400 Series Flow Control Regulator



Heavy Duty MIG and TIG Welding and Blanketing

Features

- Non-compensated Flowmeter
 - *Eliminates Gas Surge*
- Dual Range Flowmeter
 - *Enables precise gas metering*
- Dual-Stage configuration
 - *Allows complete use of cylinder*

Material

- Heavy Forged Brass Body
- PCTFE First Stage Seat
- Neoprene® Second Stage Seat
- Glass Wool Inlet Filter

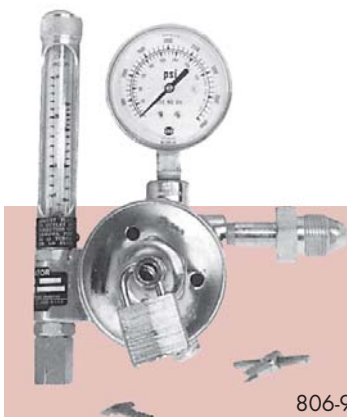
Specification

- 3,000 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-9470 Shown

Gas Service	Stock Number	Inlet CGA	Flow Capacity SCFH	Outlet Fittings	Pressure Gauges
Helium	806-9470	580	Lower 4-40/Upper 20-200	5/8-18 "B" RH Int.	4000 PSIG
Argon	806-9474	580	Lower 4-30/Upper 20-150	5/8-18 "B" RH Int.	4000 PSIG
Argon	806-9475 (See Below)	580	Lower 4-30/Upper 20-150	5/8-18 "B" RH Int.	4000 PSIG



806-9475 Shown

Tamper-Proof Model Also Available (806-9475)

*Same as the 806-9474 except with tamper proof spring case and special adjusting key as shown.
Padlock not included.



6500 Series Flow Control Regulator

Medium-Heavy Duty MIG and TIG Welding and Blanketing

Features

- Non-compensated Flowmeter Model
 - *Eliminates Gas Surge*
- Dual Scale Flow Tube
 - *Enables process flexibility*
- Interchangeable Flowmeter Design
 - *Lowers maintenance costs*

Material

- Forged Brass Body
- PTFE/PCTFE Seat
- 25 Micron Bronze Capsule® Filter

Specification

- 3,000/5,500 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-6570 Shown

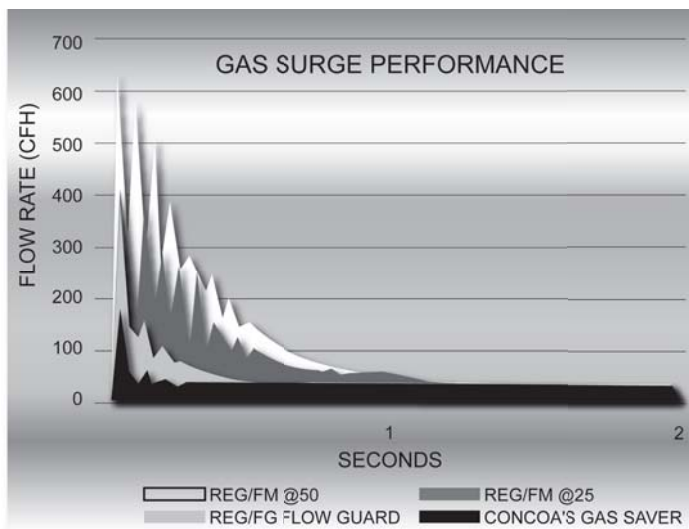


Flow
Control

Series	Stock Number	CGA	Type	Scale
6500	806-6538	580	LC	Argon/Helium
	806-6540	680	VHP, GS	Argon/Helium
	806-6541	680	VHP, XX	Argon/Helium
	806-6547	680	VHP	Argon/Helium
	806-6570	580	HP, GS	Argon/Helium
	806-6572	580	LC, XX	Argon/Helium
	806-6573	580	HP, XX	Argon/Helium
	806-6574	034	GS, XX	Argon/Helium
	806-6575	580	HP	Argon/CO ₂
	806-6577	320	HP	CO ₂
	806-6579	580	HP, X	Argon/CO ₂
	806-6571	320	HP, X	CO ₂

Legend:

GS - Gas Saver
LC - Liquid Cylinder
HP - High Pressure
VHP - Very High Pressure
X - Dual Flowmeter
XX - Tamper Proof Model



5500 Series Flow Control Regulator



Medium Duty MIG and TIG Welding and Blanketing

Features

- Flow Gauge Models
 - Economical design
- Dual Scale Flow Gauge
 - Enables process flexibility
- Interchangeable Flowmeter Design
 - Lowers maintenance costs

Material

- Bar Stock Brass Body
- PTFE Seat
- 25 Micron Bronze Capsule® Filter

Specification

- 3,000 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-5517 Shown



Gas Service	Stock Number	Inlet CGA	Flow Range	Outlet Fittings	Pressure Gauges
5500 Series Regulators					
Argon	806-5517	580	20-60 SCFH Argon	5/8-18 "B" RH Int.	4000 PSIG
Argon MIG Kit	806-5580**		(20-30 CFH CO ₂)*		
Carbon Dioxide	806-5505	320	15-55 SCFH CO ₂		
Carbon Dioxide MIG Kit	806-5582		(15-60 CFH Argon) *		

Gas Service	Stock Number	Inlet CGA	Compressed PSIG	Outlet Fittings	Flow Range
CO ₂	806-5577	320	75	5/8-18 "B" RH Int.	10-55 SCFH
CO ₂ MIG Kit**	806-5525				
Argon/Helium	806-5575	580	30	5/8-18 "B" RH Int.	10-60/30-200 SCFH
Argon/Helium MIG Kit**	806-5519				
Argon/Helium Gas Saver	806-5570	580	0	5/8-18 "B" RH Int.	10-60/30-200 SCFH
Argon/Helium Gas Saver MIG Kit**	806-5578				
Argon-Hydrogen, Mixtures	806-5535	350	30	5/8-18 "B" RH Int.	10-60 SCFH

Special Purpose 5500 Series Flowmeter Regulators

Argon Helium	806-5560 (Gas Saver Model)	680 (5500 PSIG Max.)	Flowmeter & 6000 PSIG	5/8-18 "B" RH Int.	10-60 SCFH
Argon Helium	806-5568				

* Dual Scale Flow Gauge Argon & CO₂

**MIGs Kit Includes 5 Feet of Hose
Hose #830-5191-5ft.



4700 Series Flow Control Regulator

Light Duty MIG and TIG Welding

Features

- Flow Gauge Model
 - *Economical design*
- Dual Scale Flow Gauge
 - *Enables process flexibility*
- Interchangeable Flow Gauge Design
 - *Lowers maintenance costs*

Material

- Bar Stock Brass Body
- PTFE Seat
- Glass Wool Inlet Filter

Specification

- 3,000 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-4777 Shown

Flow
Control

Gas Service	Stock Number	Inlet CGA	Flow Range	Outlet Fittings	Pressure Gauges
4700 Series Regulators					
Argon	806-4777	580	20-60 SCFH Argon (20-30 CFH CO ₂)*	5/8-18 "B" RH Int.	4000 PSIG
Argon MIG Kit	806-4778**				
Carbon Dioxide	806-4785	320	20-50 SCFH CO ₂ (15-60 CFH Argon)*	5/8-18 "B" RH Int.	4000 PSIG
Carbon Dioxide MIG Kit	806-4795**				

* Dual Scale Flow Gauge Argon & CO₂

**MIGs Kit Includes 5 Feet of Hose
Hose #830-5191-5ft.

Flowmeters



High Flow Welding and Blanketing

Gas Service	Stock Number	Low Flow Scale CFH	High Flow Scale CFH	Inlet Connection	Outlet Connection
Helium	805-1600	0.5-37	30-200	5/8"-18 "B" RH Ext.	5/8"-18 RH Int.
Argon	805-1601	1.0-24	22-198	5/8"-18 "B" RH Ext.	5/8"-18 RH Int.
Oxygen	805-1602	0.1-4.5	3.5-20	9/16"-18 RH Int.	9/16"-18 RH Ext.
Nitrogen	805-1603	1.0-29	27-245	5/8"-18 "B" RH Ext.	5/8"-18 RH Int.
Hydrogen	805-1604	2.0-52	40-300	9/16"-18"18-LH Int.	9/16"-18 LH Ext.
CO ₂	805-1605	1.0-24	23-150	5/8"-18 "B" RH Ext.	5/8"-18 "B" RH Ext.
General Purpose Dual Range Flowmeter					
Hydrogen	805-1606	3.0-23	32-192	5/8"-18 "B" RH Ext.	5/8"-18 "B" RH Ext.
Helium		2.5-70	65-525		
Nitrogen		2.0-28	35-220		
CO ₂		2.0-24	26-176		
AG75		1.5-37	45-290		

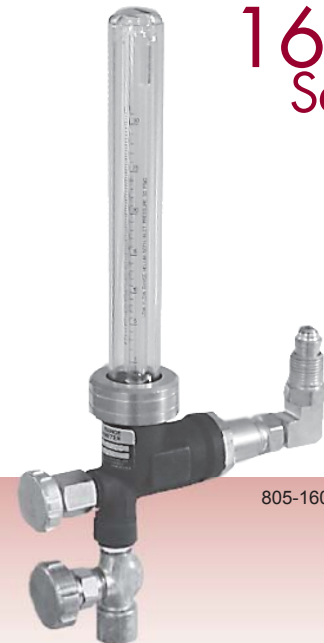
Features

- Dual Range Flow Adjustment*
Enables precise gas metering
- Gas Specific Scale*
Delivers greater accuracy
- Articulating Inlet Connection
Installation flexibility

* Except for 805-1606

Materials

- Forged Aluminum Body
 - Buna-N O-Ring Seals
 - 25 Micron Bronze Filter
- ### Specifications
- Compensated @ 30 psi
 - -40 to 140°F (-40 to 60°C)



1600
Series

805-1600 Shown

Medium Flow Welding and Blanketing

Gas Service	Stock Number	Inlet Connection	Flow Range	Outlet Connection	Compensated PSIG
Argon/CO ₂	805-0720	5/8"-18 RH Ext.	10-60 Ar/10-55 CO ₂	5/8"-18 RH Ext.	30 (Straight Inlet)
Argon/Helium	805-0721	5/8"-18 RH Ext.	10-60 Ar/30-200 He	5/8"-18 RH Ext.	30 (Straight Inlet)
Argon/Helium	805-0725	5/8"-18 RH Ext.	10-60 Ar/30-200 He	5/8"-18 RH Ext.	0 (Elbow Model)
Argon/CO ₂	805-0727	1/4" NPT (M)	10-60 Ar/10-55 CO ₂	5/8"-18 RH Ext.	30 (Dual Flowmeters)
Argon/Helium	805-0728	1/4" NPT (M)	10-60/30-200 He	5/8"-18 RH Ext.	30 (Dual Flowmeters)

Features

- Dual Scale Flow Tube
Enables process flexibility
- Non-compensated Flowmeter Model
Eliminates Gas Surge
- Resettable Relief Mechanism
Lowers maintenance costs

* On all except 805-0725

Materials

- Brass Bar Stock Body
 - Neoprene® O-Ring Seals
 - 25 Micron Bronze Filter*
- ### Specifications
- Compensated @ 30/0 psi
 - -40 to 140°F (-40 to 60°C)
 - 50 PSI Max Inlet Pressure



700
Series

805-0725 Shown

Heavy Duty Heating and Cutting at Point of Use

Features

- Rear entry
 - *Excellent visibility*
- Large Seat Displacement
 - *High flow capacity*
- 2.5" (63mm) Convuluted Neoprene® Diaphragm
 - *Steady pressure control*

Material

- Forged Brass Body
- Neoprene® Seat
- 254 Micron Stainless Screen Filter

Specification

- 200 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-9930 Shown

Series	Part Number	Gas Service	Delivery	Gauge	Max Flow	Inlet	Outlet	Station Valve
9900	806-9930	Oxygen	0-150 PSIG	0-200 PSIG	1500 scfh	CGA 024 RH	'B' 9/16"-18 (RH Ext.)	Fits 801-0233*
	806-9931	Oxygen	0-40 PSIG	0-60 PSIG	425 scfh	CGA 024 RH	'B' 9/16"-18 (RH Ext.)	Fits 801-0233*
	806-9932	Fuel Gases (Acetylene, Propane, Natural Gas)	0-15 PSIG	0-30 PSIG	200 scfh	CGA 025 LH	'B' 9/16"-18 (LH Ext.)	Fits 801-0601*
	806-9985	Inerts (Nitrogen, Helium, Argon)	0-150 PSIG	0-200 PSIG	1500 scfh	CGA 034 RH	'B' 5/8"-18 (RH Ext.)	Fits 801-0034*
	806-9979	Fuel Gases (Not for Acetylene)	0-40 PSIG	0-60 PSIG	340 scfh	CGA 025 LH	'B' 9/16"-18 (LH Ext.)	Fits 801-0601*

* Not included.

Note: Acetylene should not be used over 15 PSIG

6790 Series Pipeline Regulator



High Flow Heavy Duty Rugged Heating and Cutting

Features

- ½" Seat and Ports
 - *Ultra high flow*
- Balance Stem Seat
 - *Steady control with decaying inlet*
- Heavy Forged Brass Bonnet
 - *High Durability*

Material

- Heavy Bar Stock Brass Body
- Viton® or Neoprene® Seat
- 40 Micron Stainless Dome Inlet Filter

Specification

- 3,000 PSI Max Inlet*
- Temperature Range -40° to 140°F (-40° to 60°C)



806-6791 Shown

* Excluding 806-6790 & 806-6792 models which have 400 PSI Max Inlet.

Series	Part Number	Delivery Pressure	Outlet Gauge	Maximum Flow
6790	806-6790 (400 PSI Max Inlet)	0-15 PSIG	0-30 PSIG (Red-Line Gauge)	900 scfh
	806-6791	0-15 PSIG	0-30 PSIG	900 scfh
	806-6792 (400 PSI Max Inlet)	0-40 PSIG	0-60 PSIG	1500 scfh
	806-6793	0-125 PSIG	0-200 PSIG	9000 scfh
	806-6794	0-200 PSIG	0-400 PSIG	9000 scfh
	806-6797 (For N ₂ O and CO ₂)	0-120 PSIG	0-200 PSIG	4000 scfh
	806-6798 (For N ₂ O and CO ₂)	0-200 PSIG	0-400 PSIG	4000 scfh

Options	Stock Number
Panel Mount Kit	830-6479
Rear Mounting Bracket Kit	835-0205



6690 Series Pipeline Regulator

Medium-Heavy Duty Rugged Welding, Heating and Cutting

Features

- Heavy Forged Brass Bonnet
 - *High Durability*
- Medium-Large Seat Displacement
 - *Good flow capacity*
- Capsule® Seat Assembly
 - *High cycle life*

Material

- Heavy Forged Brass Body
- PTFE Seat
- 25 Micron Bronze Capsule® Filter

Specification

- 3,000 PSI Max Inlet*
- Temperature Range -40° to 140°F (-40° to 60°C)

* Excluding 806-6690 model which has 400 PSI Max Inlet.



806-6691 Shown



Gas Service	Stock Number	Inlet Connection	Delivery Range	Outlet Fittings	Pressure Gauges
Non-corrosive	806-6691	¼" NPT (F)	0-15 PSIG	¼" NPT (F)	30 PSIG
Non-corrosive	806-6692	¼" NPT (F)	0-40 PSIG	¼" NPT (F)	60 PSIG
Non-corrosive	806-6693	¼" NPT (F)	0-120 PSIG	¼" NPT (F)	200 PSIG
Non-corrosive	806-6694	¼" NPT (F)	0-250 PSIG	¼" NPT (F)	400 PSIG
Acetylene	806-6690	¼" NPT (F)	0-15 PSIG	¼" NPT (F)	30 PSIG* (15 PSIG Red Line)

* Acetylene should not be used over 15 PSIG

Option	Stock Number
Panel Mount Kit	830-8163

6590 Series Pipeline Regulator



Medium-Heavy Duty Heating and Cutting at Point of Use

Features

- 2.5" (63mm) Convuluted Neoprene® Diaphragm
 - *Steady pressure control*
- Medium-Large Seat Displacement
 - *Good flow capacity*
- Capsule® Seat Assembly
 - *High cycle life*

Material

- Forged Brass Body
- PTFE Seat
- 20-35 Micron Bronze Capsule® Filter

Specification

- 200 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



5 YEAR WARRANTY
The CONCOA Capsule® is warranted for five years to be free of defects in materials and workmanship.

Gas Service	Stock Number	Inlet CGA	Delivery PSIG	Outlet Fittings	Fits Station Valve*
Oxygen	806-6596	024	0-120 PSIG	9/16"-18 "B" RH Int.	801-0233
Acetylene, Propylene, Propane, Natural Gas	806-6592	025	0-15 PSIG	9/16"-18 "B" LH Int.	801-0601
Propylene, Propane, Natural Gas	806-6599	025	0-40 PSIG	9/16"-18 "B" LH Int.	801-0601
Oil Free Inert, Argon-Nitrogen, Helium-CO ₂	806-6595	034	0-120 PSIG	5/8"-18"B" RH Int.	801-0034
Gas Service	Stock Number	Inlet CGA	Flowrate CFH	Outlet Fittings	Fits Station Valve*
Argon, CO ₂	806-6591	034	Argon: 10-60/CO ₂ : 10-55	5/8"-18"B" RH Int.	081-0034
Argon, Helium	806-6597	034	Argon: 10-60/ Helium: 30-200	5/8"-18"B" RH Int.	801-0034
	806-6590 (Gas Saver)	034	Argon: 10-60/ Helium: 30-200	5/8"-18"B" RH Int.	801-0034
Argon, CO ₂	806-6594 (Dual Flowmenter)	034	Argon: 10-60/CO ₂ : 10-55	5/8"-18"B" RH Int.	801-0034
Argon, Helium**	806-6574	034	Argon: 10-60/ Helium: 30-200	5/8"-18"B" RH Int.	801-0034

Note: Acetylene should not be used over 15 PSIG

* Not included.
** Tamper proof



5690 Series Pipeline Regulator

Medium-Heavy Duty Welding, Heating and Cutting

Features

- Heavy Forged Brass Bonnet
 - *High Durability*
- 2" (50mm) Diaphragm with Integral Self Seating Relief Valve*
 - *Tamper proof safety*
- Capsule® Seat Assembly
 - *High cycle life*

Material

- Forged Brass Body
- PTFE/PCTFE Seat
- 20-35 Micron Bronze Capsule® Filter

Specification

- 3,000/5,500 PSI Max Inlet**
- Temperature Range -40° to 140°F (-40° to 60°C)



806-5690 Shown



Pipeline

Gas Service	Stock Number	Inlet Connection	Delivery Range	Outlet Fittings	Pressure Gauges
Non-corrosive	806-5691	1/4" NPT (F)	0-15 PSIG	1/4" NPT (F)	30 PSIG
	806-5692	1/4" NPT (F)	0-40 PSIG	1/4" NPT (F)	60 PSIG
	806-5693	1/4" NPT (F)	0-120 PSIG	1/4" NPT (F)	200 PSIG
	806-5694	1/4" NPT (F)	0-250 PSIG	1/4" NPT (F)	400 PSIG
Acetylene	806-5690	1/4" NPT (F)	0-15 PSIG	1/4" NPT (F)	30 PSIG* (15 PSIG Red Line)

Option	Stock Number
Panel Mount Kit	830-8162

* Acetylene model 806-5690 does not have relief valve

** Excluding 806-5690 model which is 400 PSI for the 15 PSI model

Note: Acetylene should not be used over 15 PSIG

6530 Series Liquid Cylinder Regulator



Medium-Heavy Duty Welding, Heating and Cutting

Features

- 2.5" (63mm) 316L Stainless Diaphragm
 - *Cold Climate Performance*
- Self Seating Relief Valve
 - *Protects against liquid flash*
- Capsule® Seat Assembly
 - *High cycle life*

Material

- Forged Brass Body
- PTFE Seat
- 20-35 Micron Bronze Capsule® Filter

Specification

- 250 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-6530 Shown

Gas Service	Stock Number	Inlet CGA	Delivery Range	Outlet Fittings	Pressure Gauges
Oxygen	806-6530	540	0-200 PSIG	9/16"-18"B" RH Ext.	400 PSIG
	806-6536	540	0-120 PSIG	9/16"-18 "B" RH Ext.	200 PSIG
Argon, Nitrogen, Helium	806-6535	580	0-120 PSIG	5/8-18 "B" RH Int.	200 PSIG
CO ₂	806-6531	320	0-120 PSIG	5/8-18 "B" RH Int.	200 PSIG



8000 Series Special Use Regulator

Medium Duty MIG and TIG Welding and Blanketing

Features

- Thermostatically controlled 95-120°F
 - Prevents regulator freeze up
- Pressure and Flow Gauge Models
 - Process flexibility
- 2" (50mm) Diaphragm with Integral Self Seating Relief Valve
 - Tamper proof safety

Material

- Brass Bar Stock Body
- PTFE/PCTFE Seat
- 20-35 Micron Bronze Capsule® Filter

Specification

- 3,000/5,500 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-8005 Shown

Special
Use

Gas Service	Stock Number	Inlet CGA	Delivery PSIG/ Flowrate CFH	Outlet Fittings	Gauges
CO ₂	806-8005(110V)	320	Flow 0-135	5/8"-18 RH Int.	200 CFH & 4000 PSIG
	806-8008(220V)				
Argon, Nitrogen, Helium (AG-25)	806-8010(110V)	580	Pressure 0-125	5/8"-18 RH Int.	200 PSI & 4000 PSIG
	806-8020(220V)				
Nitrous Oxide	806-8039(110V)	326	Pressure 0-125	1/4" NPT (F)	200 PSI & 4000 PSIG
	806-8040(220V)				
Argon/CO ₂	806-8075 (110V)	580	1-60 Argon/10-55 CO ₂	5/8"-18 RH Int.	60 CFH & 4000 PSIG
High Pressure Regulators					
Argon, Nitrogen, Helium (Inert Gas)	806-8061(110V)	680 (5500 PSIG Max)	Pressure 0-125	1/4" NPT (F)	200 PSI & 6000 PSIG
	806-8062(220V)				

7000 Series Special Use Regulator



Light Duty Air-Fuel Brazing and Heating

Features

- CGA 600 Pin Valve
 - *Compatible with 1lb MAPP*
- Integral Check Valve (Model 7014)
 - *Enhanced safety*
- Combo Regulator (Model 7019)
 - *Combines regulator and handle*

Material

- Brass Bar Stock Body
- Neoprene® diaphragm
- Neoprene® O-Ring Seals

Specification

- 500 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



Gas Service	Stock Number	Flow (CFH)	Delivery PSIG	Inlet CGA
MAPP® Propane Use on 1lb. MAPP Cylinder. "A" Size outlet for use with Tote-weld. Special hose 831-2846 & Air Fuel Torch 818-0274	806-7014	130	--	600
MAPP® Propane Use on 1lb. MAPP or Propane Cylinder. Air Fuel or RAM-JET Tips. (Combination Regulator/Handle)	806-7019	130	0-40 PSIG	600

2500 Series Special Use Regulator

Helium Balloon Filling

Features

- Rubber Tilt Valve
 - *Quick & Safe Fill*
- Over Pressure Relief Port
 - *Prevents regulator damage*
- Tie Hook Ready
 - *Prevents accidental discharge*

Material

- Brass Bar Stock Body
- PTFE Seat
- 5-25 Micron Copper-Nickel or Nickel Plated Phospor Bronze Inlet Filter

Specification

- 3,000 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-2521 Shown

Special
Use

Gas Service	Stock Number	Inlet	Inflator Valve	Over Pressure Relief	Tie Hook Ready	Wrench Connection	Hand TIGHT Connection	Cylinder Pressure Gauge
Helium	806-2521	580	Rubber Tilt	•	•	•		
	806-2522			•	•		•	
	806-2523			•	•	•		•
	806-2524			•	•		•	•

1400 Series Special Use Regulator



Ultra High Pressure Delivery

Features

- Positive Seat Stop
- High cycle life
 - *Installation flexibility*
- PTFE Piston O-Ring Seals
 - *Accurate pressure control*

Material

- Brass Bar Stock Body
- PTFE, Arlon and PCTFE Seats*
- 25 Micron Bronze Capsule® Filter

Specification

- 3000/4000/5500/6000 PSI Max Inlets
- Temperature Range -40° to 140°F (-40° to 60°C)

* Seat material depends on model's PSI range



Series	Stock Number	Gas Service	Delivery Pressure/Gauge	Max Inlet Pressure/Gauge	Inlet
1400	806-1416 (PT)	Oxygen	0-1500 PSIG/4000 PSIG	3000 PSIG/4000 PSIG	CGA 540
	806-1436 (PT)	Oxygen	0-2500 PSIG/4000 PSIG	3000 PSIG/4000 PSIG	CGA 540
	806-1426 (PC)	Oxygen	0-1500 PSIG/4000 PSIG	4000 PSIG/6000 PSIG	CGA 577
	806-1446 (PC)	Oxygen	0-2500 PSIG/4000 PSIG	4000 PSIG/6000 PSIG	CGA 577
	806-1415 (PT)	Inerts	0-1500 PSIG/4000 PSIG	3000 PSIG/4000 PSIG	CGA 580
	806-1435 (PT)	Inerts	0-2500 PSIG/4000 PSIG	3000 PSIG/4000 PSIG	CGA 580
	806-1425 (PC)	Inerts	0-1500 PSIG/4000 PSIG	5500 PSIG/6000 PSIG	CGA 680
	806-1445 (PC)	Inerts	0-4500 PSIG/6000 PSIG	5500 PSIG/6000 PSIG	CGA 680
	806-1455 (PC)	Inerts	0-2500 PSIG/4000 PSIG	5500 PSIG/6000 PSIG	CGA 680
	806-1461 (A)	Inerts	0-1500 PSIG/4000 PSIG	6000 PSIG/10000 PSIG	CGA 677
	806-1462 (A)	Inerts	0-2500 PSIG/4000 PSIG	6000 PSIG/10000 PSIG	CGA 677
	806-1465 (A)	Inerts	0-4500 PSIG/6000 PSIG	6000 PSIG/10000 PSIG	CGA 677
	806-1466 (A)	Inerts	0-6000 PSIG/10000 PSIG	6000 PSIG/10000 PSIG	CGA 677
	806-1418 (PT)	Air	0-1500 PSIG/4000 PSIG	3000 PSIG/4000 PSIG	CGA 346
	806-1438 (PT)	Air	0-2500 PSIG/4000 PSIG	3000 PSIG/4000 PSIG	CGA 346
	806-1419 (PT)	Air	0-1500 PSIG/4000 PSIG	3000 PSIG/4000 PSIG	CGA 590
	806-1439 (PT)	Air	0-2500 PSIG/4000 PSIG	3000 PSIG/4000 PSIG	CGA 590
	806-1428 (PC)	Air	0-1500 PSIG/4000 PSIG	5500 PSIG/6000 PSIG	CGA 347
	806-1448 (PC)	Air	0-4500 PSIG/6000 PSIG	5500 PSIG/6000 PSIG	CGA 347
	806-1458 (PC)	Air	0-2500 PSIG/4000 PSIG	5500 PSIG/6000 PSIG	CGA 347
	806-1411 (PT)	Hydrogen or Methane	0-1500 PSIG/4000 PSIG	3000 PSIG/4000 PSIG	CGA 350
	806-1431 (PT)	Hydrogen or Methane	0-2500 PSIG/4000 PSIG	3000 PSIG/4000 PSIG	CGA 350
	806-1421 (PC)	Hydrogen or Methane	0-1500 PSIG/4000 PSIG	5500 PSIG/6000 PSIG	CGA 695
	806-1441 (PC)	Hydrogen or Methane	0-4500 PSIG/6000 PSIG	5500 PSIG/6000 PSIG	CGA 695
	806-1451 (PC)	Hydrogen or Methane	0-2500 PSIG/4000 PSIG	5500 PSIG/6000 PSIG	CGA 695

(PT) PTFE (A) Arlon (PC) PCTFE

Option	Stock Number
Panel Mount Kit	830-6483



1100 Series Special Use Regulator

High Pressure Delivery

Features

- Indirect Gas Flow Path
 - *Precise flow control*
- 36" Copper Tubing with 1/8" MNPT Outlet
 - *Installation flexibility*
- 2" PSI/kPa Pressure Gauges
 - *Economical package*

Material

- Forged Brass Body
- PTFE Seat
- Glass Wool Inlet Filter

Specification

- 3,000 PSI Max Inlet
- Temperature Range -40° to 140°F (-40° to 60°C)



806-1130 Shown

Special
Use

Gas Service	Stock Number	Inlet CGA	Delivery Range	Outlet Fittings	Pressure Gauges
Oxygen	806-1130	540	0-1000 PSIG	With 3/16" Flexible Copper Tubing 36" long with Parker Fitting which fits 1/8" female pipe thread.	1500 & 4000 PSIG
Hydrogen	806-1143	350	0-1000 PSIG		1500 & 4000 PSIG
Argon, WP Nitrogen, Helium	806-1135	580	0-1000 PSIG		1500 & 4000 PSIG
Nitrogen OP	806-1136	555	0-1000 PSIG		1500 & 4000 PSIG
Industrial Air	806-1189	590	0-1000 PSIG		1500 & 4000 PSIG
Gas Station Kits					
Gas Station	830-7334	540	Gas Station Kits include 36" Pigtail, Manifold Block, Mounting Bracket, and CGA Adapter		
Gas Station	830-7335	580			
Gas Station	830-7336	320			
Gas Station	830-7340	350			
Gas Station	830-7342	590			

Cutting Torches



Key Features



- Tip mix system assures safe mixing, allows operation with **any fuel** gas and requires less maintenance.
- Die Forged brass or optional stainless steel head reduces heat distortion and increases durability.
- Internal tip nut threads minimizes head damage



- All silver brazed tube joints provides added rigidity and strength.
- Tapered cutting oxygen valve gives excellent ease-on for piercing.
- Contoured oxygen cutting lever designed to minimize operator fatigue.



- CONCOA's Corn Cob® handle design provides balance and sure grip.
- Shrouded valves provide maximum stem durability and protection.
- Fuel valve is spring loaded to provide smooth torque and anti-backlash for precise flame control.



822-9516 Shown



9700 Series
Heavy Duty Cutting

822-9706 Shown

Features

- Bronze Head
 - Low Maintenance
- Nickel alloy triangular tubes
 - Rigid and durable

Stock Number	Inches	Centimeters	Lbs.	Kgs.	Head Angle (deg.)	Max. Cutting Capacity
822-9705	21	53	3.1	1.4	75°	12" (30.5 cm)
822-9706	21	53	3.1	1.4	90°	12" (30.5 cm)
822-9710	21	53	3.1	1.4	180°	12" (30.5 cm)
822-9740	36	91	3.5	1.6	180°	12" (30.5 cm)
822-9755	36	91	3.5	1.6	75°	12" (30.5 cm)
822-9756	36	91	3.5	1.6	90°	12" (30.5 cm)
822-9760	48	122	6.5	2.9	180°	12" (30.5 cm)
822-9785	48	122	6.5	2.9	75°	12" (30.5 cm)
822-9786	48	122	6.5	2.9	90°	12" (30.5 cm)
822-9795	72	183	9.0	4.1	75°	12" (30.5 cm)
822-9796	72	183	9.0	4.1	90°	12" (30.5 cm)



9500 Series
Heavy Duty Cutting in Rugged Environments

822-9516 Shown

Features

- Stainless Steel
 - Low Maintenance
- Nickel alloy triangular tubes
 - Rigid and durable

Stock Number	Inches	Centimeters	Lbs.	Kgs.	Head Angle (deg.)	Max. Cutting Capacity
822-9510	21	53	3.1	1.4	180°	12" (30.5 cm)
822-9515	21	53	3.1	1.4	75°	12" (30.5 cm)
822-9516	21	53	3.1	1.4	90°	12" (30.5 cm)
822-9540	36	91	3.5	1.6	180°	12" (30.5 cm)
822-9555	36	91	3.5	1.6	75°	12" (30.5 cm)
822-9556	36	91	3.5	1.6	90°	12" (30.5 cm)
822-9560	48	122	6.5	2.9	180°	12" (30.5 cm)
822-9585	48	122	6.5	2.9	75°	12" (30.5 cm)
822-9586	48	122	6.5	2.9	90°	12" (30.5 cm)
822-9590	72	183	9.0	4.1	180°	12" (30.5 cm)
822-9595	72	183	9.0	4.1	75°	12" (30.5 cm)
822-9596	72	183	9.0	4.1	90°	12" (30.5 cm)



9000 Series
Heavy Duty Cutting in Rugged Environments

822-9086 Shown

Features

- Stainless Head
 - Low Maintenance
- Nickel alloy in-line tubes
 - Rigid and durable

Stock Number	Inches	Centimeters	Lbs.	Kgs.	Head Angle (deg.)	Head Type	Trigger
822-9085	21	53	3.06	1.38	75°	Stainless	Yes
822-9086	21	53	3.06	1.38	90°	Stainless	Yes

Additional Features

- Tip mix for safety and versatility.
- Corn Cob® handle for maximum operator control
- In-line nickel alloy tubes provide strength and excellent view of cutting path.
- Spring loaded fuel valve provides smooth torque control and anti-backlash for precise flame control.

Cutting Torches



3000 Series Cutting Torch

Stock Number	Inches	Centimeters	Lbs.	Kgs.	Head Angle (deg.)	Head Type	Trigger/ Lever
822-3085	21	53	2.4	1.1	75°	Stainless	Trigger
822-3086	21	53	2.4	1.1	90°	Stainless	Trigger
822-3185	21	53	2.8	1.3	75°	Stainless	Lever
822-3186	21	53	2.8	1.3	90°	Stainless	Lever

Additional Features

- General purpose cutting of sheet metal to 12" (30.5 cm) steel.
- Tip Mix for safety and versatility.
- Ease on cutting oxygen lever for better control in piercing.
- Locking trigger assures better control.
- Spring loaded fuel valve for smooth torque control and anti-backlash for precise flame control.



Machine Cutting Torches

4700 Series Cutting Torch

Stock No.	Overall Torch Length		Max. Reach (Bottom to Tip End)		Effective Racking Length		Lbs.	Hose "B" Size	Barrel (In.)	Rack	Valve
	In.	Cm.	In.	Cm.	In.	Cm.					
823-4700	14.250	36.2	8.25	20.96	5	12.702	4	2	1 3/8	Yes	Yes
823-4701	19.250	48.902	13.25	33.66	10	25.404	4.13	2	1 3/8	Yes	Yes
823-4702	13.750	34.93	8.3	21.0	5	12.702	4.2	3	1 3/8	Yes	Yes
823-4781	19.250	48.902	19.3	48.9	10	25.404	4.5	3	1 3/8	Yes	Yes
823-4783	25.125	63.826	19.3	48.9	16	40.646	6.13	3	1 3/8	Yes	Yes
823-4792	6.500	16.512	4.5	11.4	3.5	8.891	3.75	3**	1 1/4	No	No
823-4708	8.000	20.320	4.5	11.4	2.5	6.350	3.75	3	1 3/8	No	Yes
823-4795	5.750	14.605	3.75	9.525	2.75	6.985	3.75	3	1 1/4	Yes	No
823-4796	5.750	14.605	3.75	9.525	2.75	6.985	3.75	3	1 1/4	No	No



- Stainless steel ball valves assure positive seating and control.
- Stainless steel torch heads provide better tip seating, longer life.
- Spring loaded lift type cutting oxygen valve allows fast on-off.
- 32 pitch rack and 1 3/8" diameter barrel.

** To balance multiple machine torch cutting applications use flow orifice part number 831-3022 on each oxygen valve so you only have balance fuel valve.

Tip Mix Cutting Equipment General Information

Internal threads prevent unnecessary repairs

Gases are mixed in the tip not in the tubes, which eliminates costly mixer repairs

Silver brazed joints add rigidity and strength

Tip mix design ensures you get the right mixer for the job.

Tapered cutting oxygen valve for ease-on control.

Forged brass body for durability and long life.



Tapered Neoprene® seal rings create hand-tight leakproof connections without rolling or tearing.

Cutting Attachments



		Head Angle	Head	Tubes	Length	Weight	For Use With Handle
4700	822-4775	75°	S/S	Nickel Alloy	12"/30.5 cm	1.6 lbs./ .73 kg	750
	822-4790	90°	S/S	Nickel Alloy	12"/30.5 cm	1.6 lbs./ .73 kg	
5700	822-5775	75°	Bronze	Nickel Alloy	12"/30.5 cm	1.6 lbs./ .73 kg	750
	822-5790	90°	Bronze	Nickel Alloy	12"/30.5 cm	1.6 lbs./ .73 kg	
	822-5710	180°	Bronze	Nickel Alloy	12"/30.5 cm	1.6 lbs./ .73 kg	
4800	822-4875	75°	S/S	Nickel Alloy	12"/30.5 cm	1.8 lbs./ .82 kg.	800
	822-4890	90°	S/S	Nickel Alloy	12"/30.5 cm	1.8 lbs./ .82 kg.	
5800	822-5875	75°	Bronze	Nickel Alloy	12"/30.5 cm	1.8 lbs./ .82 kg.	800
	822-5890	90°	Bronze	Nickel Alloy	12"/30.5 cm	1.8 lbs./ .82 kg.	
	822-5810	180°	Bronze	Nickel Alloy	12"/30.5 cm	1.8 lbs./ .82 kg.	
Option				Stock Number			
Tip Nut				831-2259			

See following pages for style 750/800 torch handle attachments and dimensions.

Stock No. 822-4490													
Head Angle	Head	Tubes	Length	Weight	Preheat System	Torch Style	Tip Style	Size					
90°	Brass	Nickel Alloy	7" (17.5 cm)	5 oz. (.14 kg)	Pre-mix	475	112**	00-3					
							233*	00-4					
Option		Stock Number											
Tip Nut							831-2949						

- Maximum cut - 2½" (6.25 cm)
- Light-duty quality torch which is ideal for the home handyman
- Uses MAPP gas/Propylene or acetylene
- Uses Style 112 Acetylene tip
- Uses Style 233 MAPP gas/Propylene tip

* MAPP Gas/Propylene Tip
** Acetylene Gas Tip

Stock No. 822-3590								
Head Angle	Head	Tubes	Length	Weight	Preheat System	Torch Style	Tip Style	
90°	Bronze	Nickel Alloy	9½" (24.1 cm)	.95 lbs. (.43 kg)	Tip-mix	550	All ¾" 3 land seat up to 4" cutting	
Option			Stock Number					
Tip Nut			831-4478					

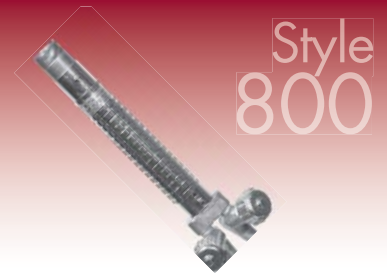


Cutting Handles



Stock Number	Length	Hose Sizes	Weight	Size Fittings	Cutting Attachments
819-0800	10" (25.4cm)	1/4" or 5/16" (.63mm or .79mm)	(Less Tip) 21oz. (.595 kg)	9/16"-18 B Ext.	4800 & 5800 Series

- A versatile torch for a variety of jobs.
- Superior flow for heavy heating.
- Uses all popular fuel gases.
- Heat output can be up to 1,350,000 BTU/hr with MAPP® No. 18 heating tip.
- Spring loaded valves provide smooth torque control and anti-backlash for precise flame control.
- Brass Corn Cob® handle for non-slip grip, stainless steel head.



Stock Number	Length	Hose Sizes	Weight	Size Fittings	Cutting Attachments
818-0750	8 3/4" (22cm)	1/4" or 5/16" (.63mm or .79mm)	(Less Tip) 16oz. (.454 kg)	9/16"-18 B Ext.	4700 & 5700 Series

- A versatile torch for welding and heating for use with all popular fuel gases.
- Very good flow capacity.
- Excellent heating capabilities. Can be used with styles 759, 760 multi-flame heating tips.
- Spring loaded valves to provide smooth torque control and anti-backlash for precise flame control.
- Brass Corn Cob® handle for non-slip grip.



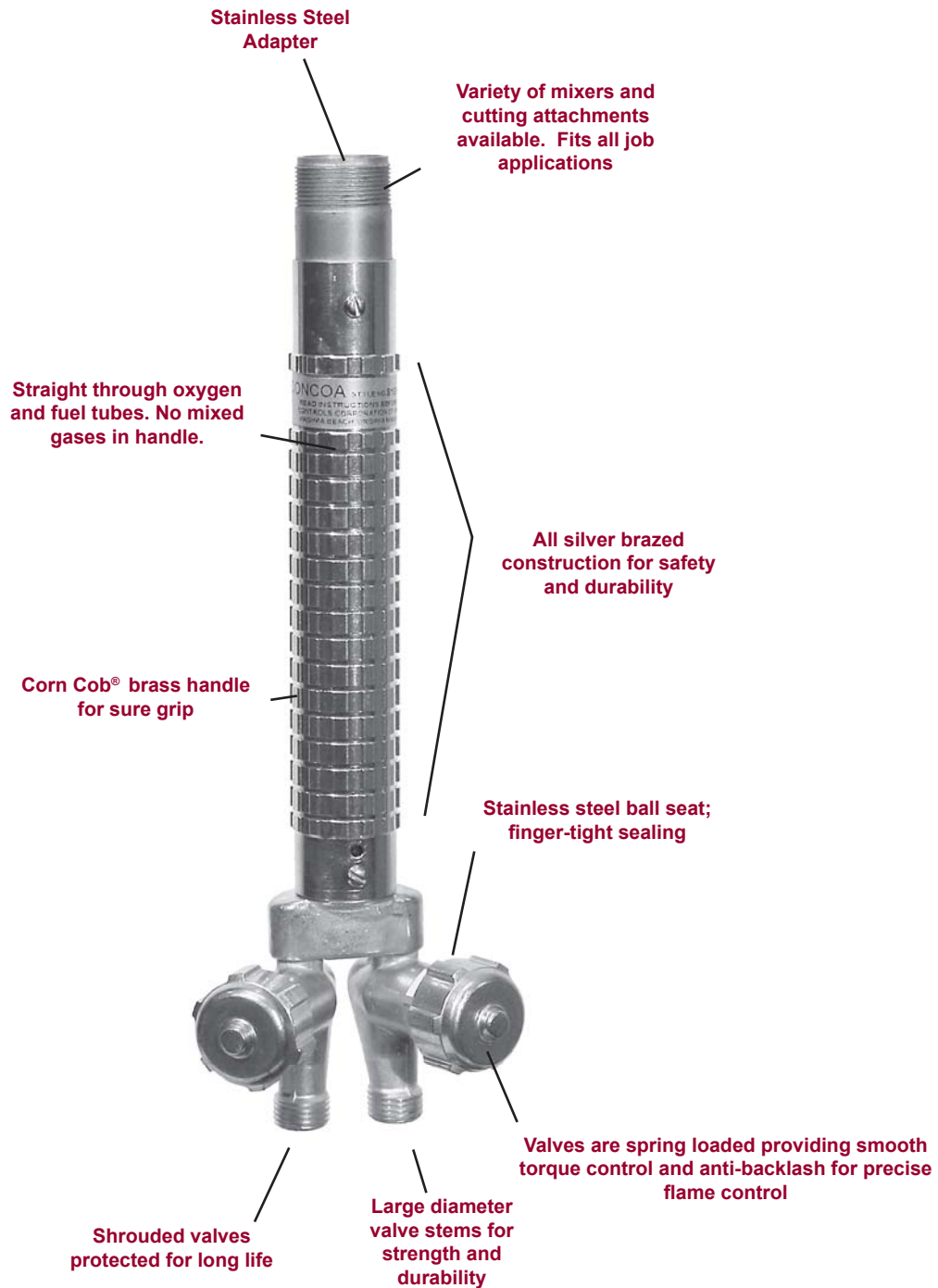
Attachments
& Handles

Stock Number	Length	Hose Sizes	Weight	Size Fittings	Cutting Attachments
818-0550	8" (20cm)	1/4" or 5/16" (.63mm or .79mm)	(Less Tip) 16oz. (.454 kg)	9/16"-18 B Ext.	3590 Series

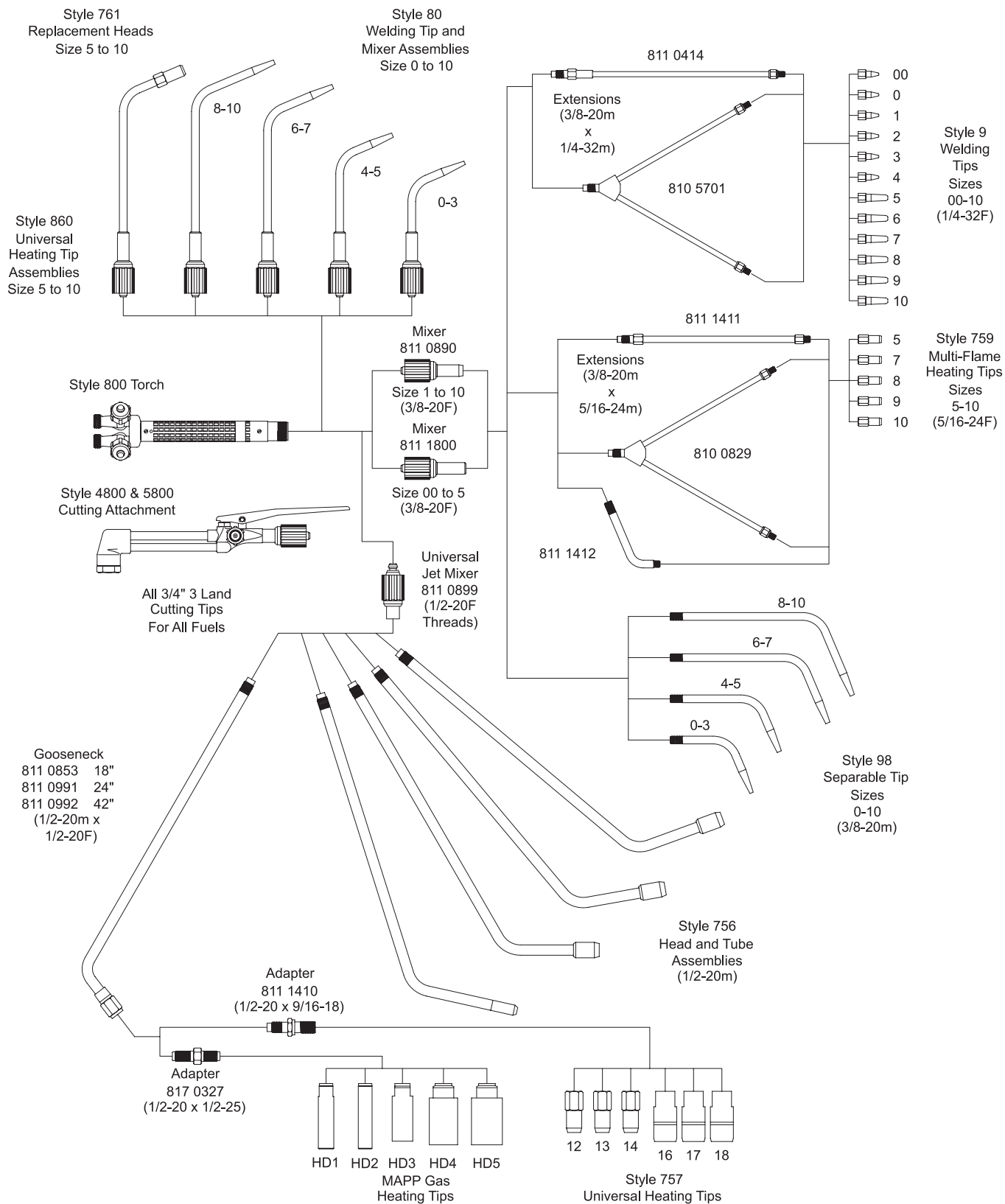
- Stainless steel ball valves assure positive seating and control.
- Stainless steel torch heads provide better tip seating, less distortion.
- Spring loaded lift type cutting oxygen valve allows fast on-off.
- 32 pitch rack and 1 3/8" Dia Barrel.



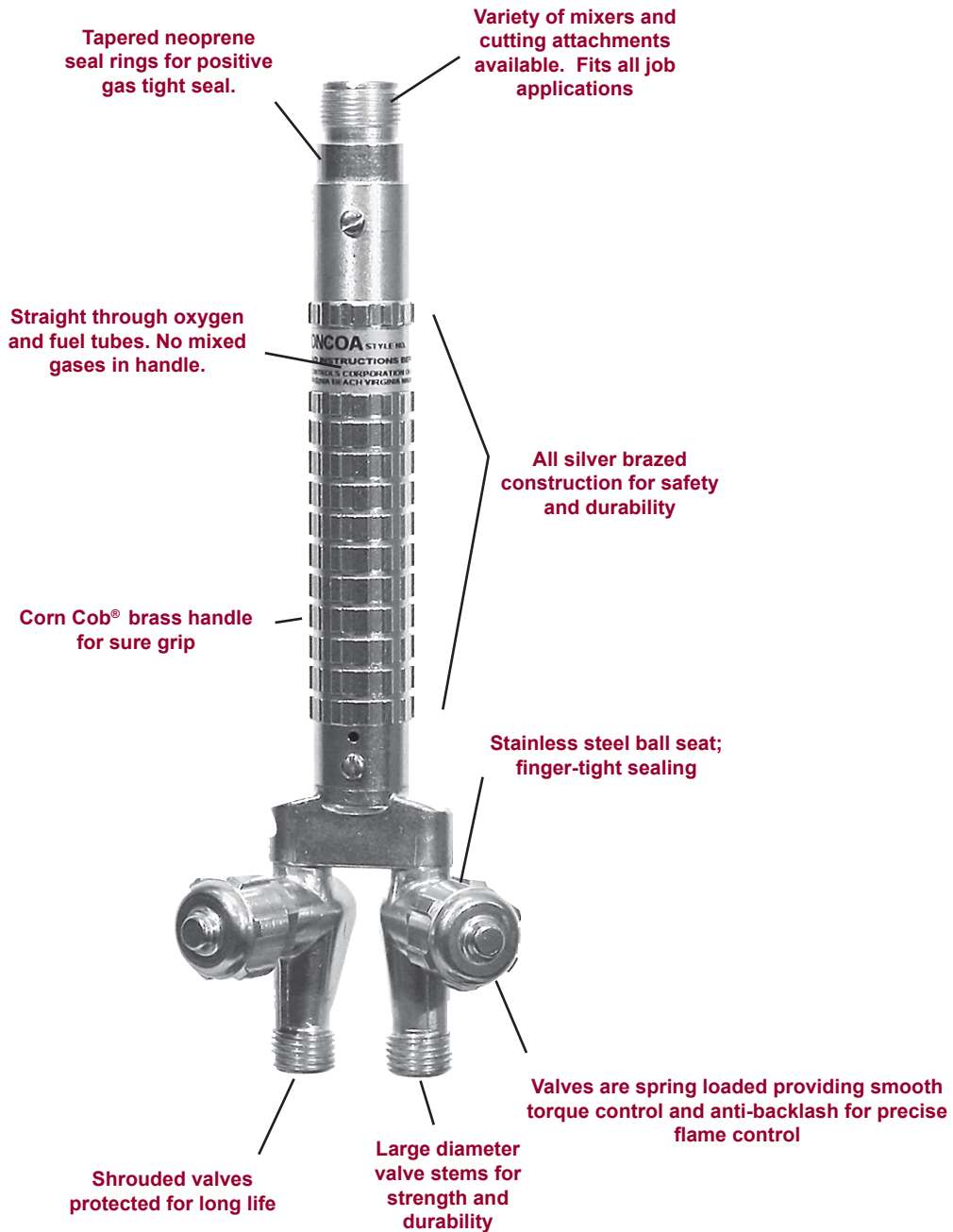
800 Torch Handle & Attachments



Cutting Handles



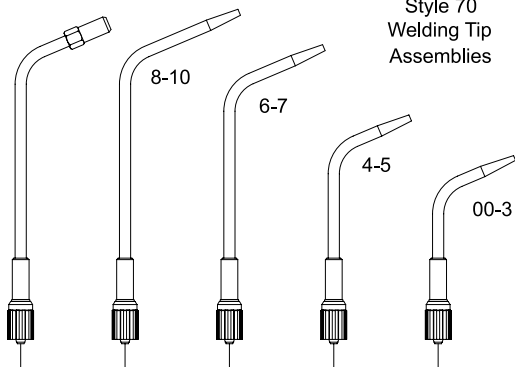
750 Torch Handle & Attachments



Cutting Handles

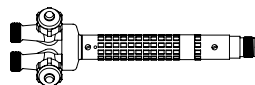


Style 761
Replacement Heads
Size 5 to 10

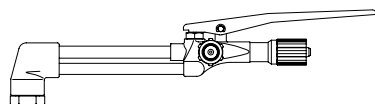


Style 760
Universal
Heating Tip
Assemblies
Size 5 to 10

Style 750 Torch



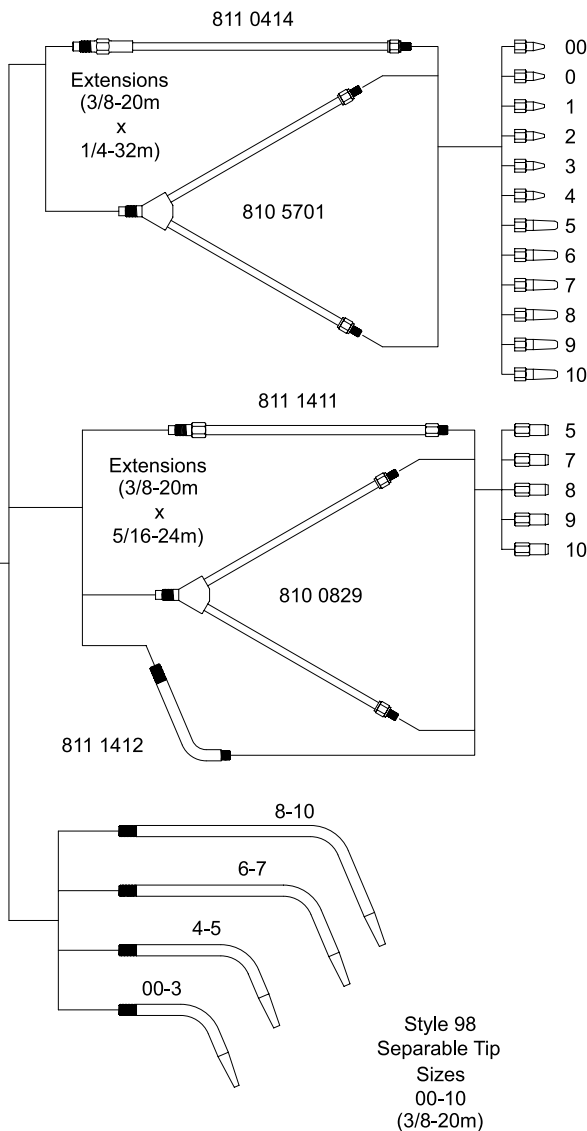
Style 4700 & 5700
Cutting Attachment



All 3/4" 3 Land
Cutting Tips
For All Fuels

Style 70
Welding Tip
Assemblies

Mixer
810 0781
Size 1 to 10
(3/8-20F)
Mixer
810 0780
Size 00 to 5
(3/8-20F)



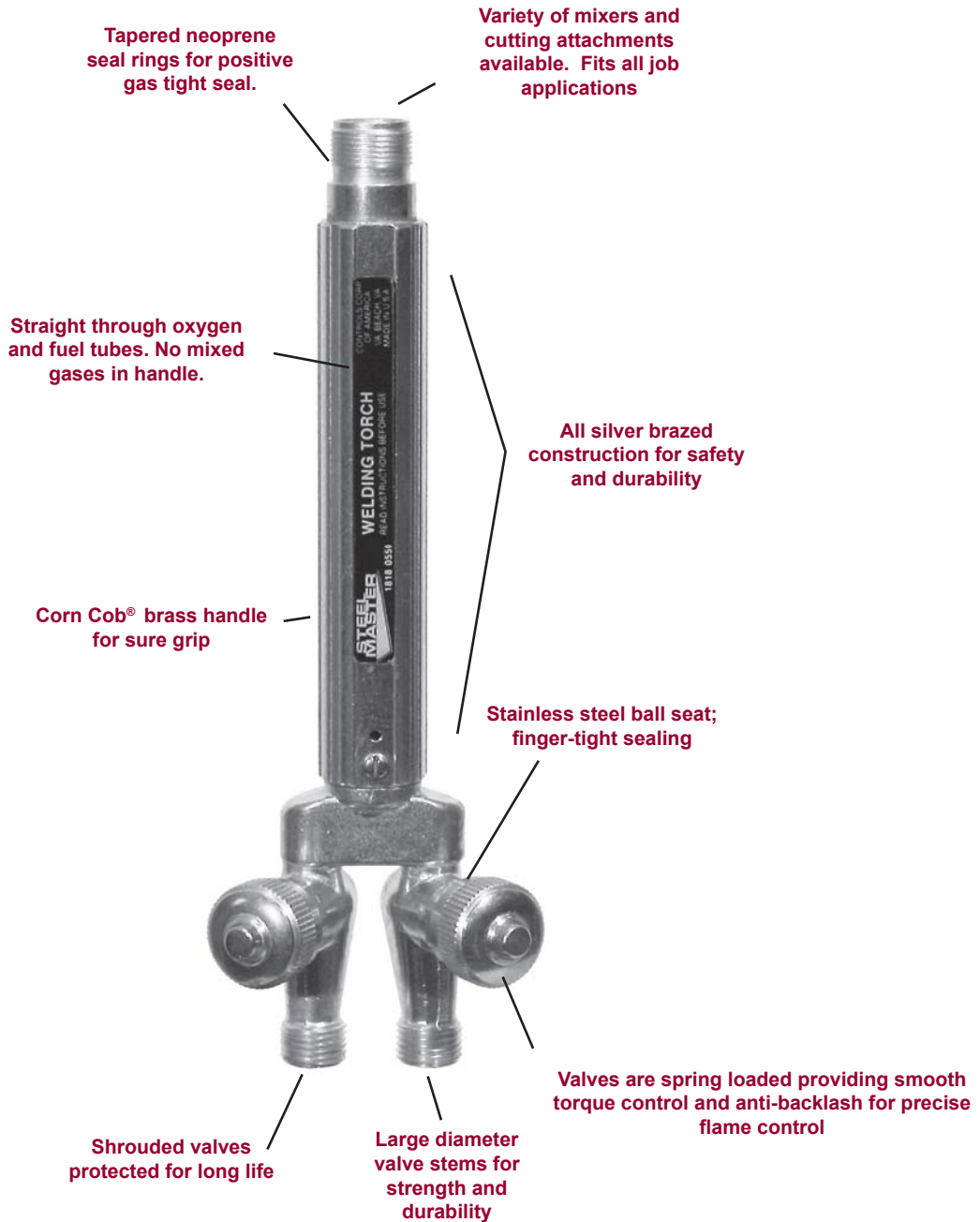
Style 9
Welding
Tips
Sizes
00-10
(1/4-32F)

Style 759
Multi-Flame
Heating Tips
Sizes
5-10
(5/16-24F)

Style 98
Separable Tip
Sizes
00-10
(3/8-20m)

Attachments
& Handles

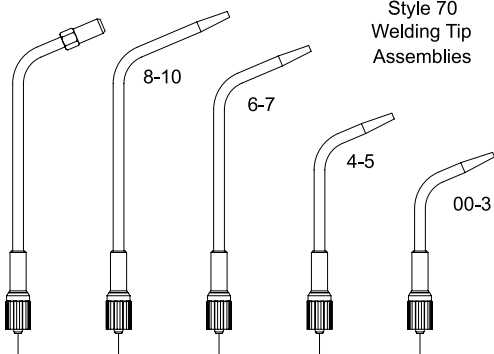
550 Torch Handle & Attachments



Cutting Handles



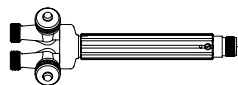
Style 761
Replacement Heads
Size 5 to 10



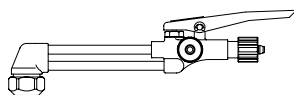
Style 70
Welding Tip
Assemblies

Style 760
Universal
Heating Tip
Assemblies
Size 5 to 10

Style 550 Torch



Style 3590
Cutting Attachment



All 3/4" 3 Land
Cutting Tips
For All Fuels

Mixer
810 0781
Size 1 to 10
(3/8-20F)

Mixer
810 0780
Size 00 to 5
(3/8-20F)

811 0414

Extensions
(3/8-20m
x
1/4-32m)

810 5701

- 00
- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Style 9
Welding
Tips
Sizes
00-10
(1/4-32F)

811 1411

Extensions
(3/8-20m
x
5/16-24m)

810 0829

- 5
- 7
- 8
- 9
- 10

Style 759
Multi-Flame
Heating Tips
Sizes
5-10
(5/16-24F)

811 1412

8-10

6-7

4-5

00-3

Style 98
Separable Tip
Sizes
00-10
(3/8-20m)

Stock Number	Length	Hose Sizes	Weight	Size Fittings
818-0475	5 7/8" (15cm)	3/16" (4.7mm)	(Less Tip) 9 oz. (.25kg)	3/8"-24 A Ext.

- For light-duty cutting.
- Tapered stem and extra fine threads on torch valves give precision flame adjustment.
- Small, compact torch ideal for out of position use such as metal sculpture or refrigeration coil repair.
- Uses a variety of gases. Versatile for home and light industrial applications.
- Excellent flow capacity.
- For use with 822-4490 cutting attachment only.



Style
475

Tote-Weld II

Stock Number	Length	Hose Sizes	Weight	Size Fittings
818-0450	5 7/8" (15cm)	3/16" (4.7mm)	(Less Tip) 9 oz. (.25kg)	3/8"-24 A Ext.

- For light-duty welding, brazing and heating.
- Tapered stem and extra fine threads on torch valves give precision flame adjustment.
- A lightweight, compact torch that is easily held for light-duty brazing.
- Excellent flow capacity.
- Not for use with cutting attachment.



Style
450

Stock Number	Length	Hose Sizes	Weight	Size Fittings
818-0350	2 1/2" (63.5mm)	Recommended for use with 3/16" (4.7mm) hose	(Less Tip) 5 oz. (.14kg)	3/8"-24 A Ext.

- For light-duty welding, brazing and heating.
- Tapered stem and extra fine threads on torch valves give precision flame adjustment.
- A lightweight, compact torch that is easily held for jewelry or light gauge work.
- Excellent flow capacity.
- Not for use with cutting attachment.



Style
350

Stock Number	Outlet	Inlet
818-0274	1/2"-20 RH	3/8"-24 A LH Ext.

- For soldering, heating and brazing
- Air and fuel gas are mixed within the tip to produce the desired flame. The torch consists of only three basic components: the valve, handle and the seat washer for minimum resistance.
- The handle, manufactured from a heavy walled aluminum extrusion is durable and lightweight.
- An extensive tip and accessories selection permits use of this torch for many different jobs.



Air-Fuel Torch

Cutting Tips

CONCOA/AIRCO Seat Acetylene General Purpose



Style 124 - 1 Piece

Light preheat, for clean surfaces; straight line and shape cutting. Four (4) preheat flames.

Stock No.	Material Thickness	Tip Size	Drill Size	Oxygen		Fuel		Cutting Speed Range (IPM)
				PSI	CFH	PSI	CFH	
854-2499	1/8	00	69 (.029)	30	32	3	6	18-20
854-2400	1/4	0	64 (.036)	30	51	3	9	16-18
854-2401	3/8	1	57 (.043)	30	73	3	12	15-17
854-2402	3/4	2	55 (.052)	40	113	3	14	11-13 1/2
854-2403	1 1/4	3	53 (.059)	40	166	3	16	10-12
854-2403	1 1/2	3	53 (.059)	45	180	3	16	9-11
854-2403	2	3	53 (.059)	50	195	3	16	7-9



Style 138 - 1 Piece

Light preheat tip designed for fine contour cutting with hand cutting torches and is recommended for machine cutting applications. Six (6) preheat flames.

Stock No.	Material Thickness	Tip Size	Drill Size	Oxygen		Fuel		Cutting Speed Range (IPM)
				PSI	CFH	PSI	CFH	
854-3899	1/8	00	69 (.029)	30	30	1 1/2	11	21-24
854-3800	1/4	0	64 (.036)	30	54	3	11	18-22
854-3801	3/8	1	57 (.043)	30	76	3	13	18-21
854-3802	3/4	2	55 (.052)	40	127	3	15	14-16
854-3803	1 1/2	3	53 (.059)	45	183	3	16	11-14
854-3804	2 1/2	4	50 (.070)	50	257	3	20	8-10



Style 144 - 1 Piece

Designed for general purpose hand cutting applications over wide range of plate surface conditions. For material over 7' use style 164. Four (4) preheat flames.

Stock No.	Material Thickness	Tip Size	Drill Size	Oxygen		Fuel		Cutting Speed Range (IPM)
				PSI	CFH	PSI	CFH	
854-4499	1/8	00	69 (.029)	30	33	1 1/2	11	21-24
854-4400	1/4	0	64 (.036)	30	57	2	14	20-23
854-4401	3/8	1	57 (.043)	30	84	3	20	18-21
854-4402	3/4	2	55 (.052)	40	134	3	22	14-17
854-4403	1 1/2	3	53 (.059)	45	190	3	23	11-14
854-4404	2 1/2	4	50 (.070)	50	263	3	25	8-11
854-4405	3	5	47 (.078)	45	313	4	31	7-10
854-4406	5	6	42 (.093)	50	457	5	43	5-7
854-4406	6	6	42 (.093)	55	492	5	43	5-6
854-4406	7	6	42 (.093)	65	552	5	43	4-5



Style 164 - 1 Piece

Very heavy preheat. It is well suited for work requiring heavy preheat such as rusted or heavily painted plate. Six (6) preheat flames.

Stock No.	Material Thickness	Tip Size	Drill Size	Oxygen		Fuel		Cutting Speed Range (IPM)
				PSI	CFH	PSI	CFH	
854-6499	1/8	00	69 (.029)	25	33	1 1/2	13	22-26
854-6400	5/16	0	64 (.036)	30	60	2	17	20-24
854-6401	1/2	1	57 (.043)	40	105	3	25	17-20
854-6402	1	2	55 (.052)	50	160	3	27	14-16
854-6403	1 1/4	3	53 (.059)	50	210	3	29	11-15
854-6404	2 1/2	4	50 (.070)	50	275	3	31	9-13
854-6405	4	5	47 (.078)	60	400	4	45	7-10
854-6406	6	6	42 (.093)	55	505	5	52	5-8
854-6407	8	7	36 (.106)	60	680	6	70	4-6
854-6408	10	8	1/8 (.125)	55	760	6	70	3 1/2-5
854-6411	14	11	10 (.193)	90	1260	8	85	2 1/2-4
854-6412	16	12	2 (.221)	105	1450	7	125	2 1/2-3 1/2



Style 45 - 1 Piece Brass

Acetylene Machine Cutting Tips with Divergent Bore. This tip has medium preheat ideal for shape cutting. Six (6) preheat flames

Stock No.	Material Thickness	Tip Size	Drill Size	Oxygen		Fuel		Cutting Speed Range (IPM)
				PSI	CFH	PSI	CFH	
813-4500	1/4	1/4	74 (.022)	120	70	3	14	24-28
813-4501	3/8	3/8	69 (.029)	85	87	3	18	23-26
813-4501	1/2	1/2	69 (.029)	100	98	3	18	18-22
813-4502	3/4	3/4	65 (.035)	100	122	3	18	17-21
813-4502	1	1	65 (.035)	110	130	3	18	16-20
813-4503	1 1/4	1 1/4	58 (.042)	85	153	4	25	16-19
813-4503	1 1/2	1 1/2	58 (.042)	100	171	4	25	14-17
813-4504	2	2	56 (.046)	100	228	4	25	11-15
813-4504	2 1/2	2 1/2	56 (.046)	110	244	4	25	9-13



Style 112 - 1 Piece

One-piece float seat design with a medium preheat. Used with 4490 cutting attachment which fits 475 torch (TOTE-WELD®)

Materials Thickness (Inches)	Tip Size	Stock Number	Drill Size
1/8	00	854-1229	68 (.031)
1/4	0	854-1200	62 (.038)
1	1	854-1201	56 (.046)
2	2	854-1202	54 (.055)
2 1/2	3	854-1203	52 (.063)

Cutting Tips

CONCOA/AIRCO Seat Acetylene Tips



Style 119 - 1 Piece

Light-preheat tip, milled on 2 sides for sheet metal cutting and restricted areas. (2 preheat flames)

Materials Thickness (Inches)	Tip Size	Stock Number	Preheat Flames
1/4	0	854-1900	2
3/8	1	854-1901	2
1/2	2	854-1902	2
3/4	3	854-1903	2

Use with Torch Series Cutting Attachment or Hand Cutting Torch
4700, 4800, 5700, 5800, 3000, 9000, 9500, 9700



Style 183 - 1 Piece

Medium-preheat tip, with 2 sides milled flat. It has a flared cutting orifice that provides large low velocity oxygen stream for grooving, gouging and removing imperfect welds. The tip is angled 20°. (6 preheat flames)

Stock Number	Depth	Gas Pressure Settings		Tip Size
		Acetylene	Oxygen	
854-8306	1/8-1/4	3	50-65	6
854-8308	1/4-3/8	5	65-85	8
854-8310	3/8-1/2	6	85-100	10
854-8312	> 1/2	6	85-100	12

Use With Torch Series Cutting Attachment or Hand Cutting Torch
4700, 4800, 5800, 3000, 9000, 9500, 9700



Style 185 - 1 Piece

Medium-preheat tip, with 2 sides milled flat for grooving, gouging, and removing imperfect welds. (6 preheat flames)

Stock Number	Gas Pressure Settings		Tip Size
	Acetylene	Oxygen	
854-8506	5-9	35-60	6
854-8508	9-12	35-60	8
854-8510	9-12	35-60	10

Use With Torch Series Cutting Attachment or Hand Cutting Torch
4700, 4800, 5700, 5800



Style 195 - 1 Piece

Medium preheat tip. It has a flared cutting orifice that provides a large, low velocity oxygen stream with one side milled flat. It can be used for hand-cutting rivet heads and bulkheads. Tip is angled 45°. (3 preheat flames)

Materials Thickness (Inches)	Tip Size	Stock Number	Preheat Flames
$\frac{3}{8}$	1	854-9501	3
$\frac{1}{2}$	2	854-9502	3
$\frac{3}{4}$	3	854-9503	3
1	4	854-9504	3
2	5	854-9505	3

Use with Torch Series Cutting Attachment or Hand Cutting Torch
4700, 4800, 5700, 5800, 3000, 9000, 9500, 9700



Style 196 - 1 Piece

Flared cutting orifice that provides a large, low velocity oxygen stream for rivet washing. It has a heavy preheat. (6 preheat flames)

Stock Number	Tip Size	Cutting Attachment or Hand Cutting Torch
854-9608	8	4700, 4800, 5800, 3000, 9000, 9500, 9700
854-9610	10	
854-9612	12	
854-9614	14	



(Shown Actual Size)

STYLES 124, 138, 144 & 164 The physical dimensions and appearance of these four styles are similar. The variations are in size and number of preheat orifices and the cutting oxygen bore size. All are made of high quality tellurium cooper and have a $\frac{3}{4}$ " (19 mm) diameter.

Hand Cutting Torches Series	Cutting Attachments Series	Machine Torch Series
3000, 7000, 9000, 9500 & 9700	3500, 4700, 4800, 5700 & 5800	4700 Series

Cutting Tips

Stinger® CONCOA/AIRCO Seat
Natural Gas and Propane Tips



Stinger® tips incorporate a new, more efficient design. These new cutting tips are made using state-of-the-art techniques and equipment. The result is a cutting tip that gives sharp, defined preheat flames for uniform heat transfer and a perfect oxygen cutting stream for smooth face cuts...every time.

- Available in all popular seat sizes for Airco torches.
- Straight bore for hand torches or divergent bore for high speed machine torches
- Splines are manufactured to exact tolerances for better preheat flames and maximum heat transfer
- Extra long oxygen stream for smoother face cuts



Style 275 - 2 Piece

This precision-made two-piece tip features excellent preheat flames and a cutting oxygen stream or "Stinger" which is significantly better than with conventional cutting tips. Sizes 00 through 5 feature a 22° "V" spline design that provides maximum heat transfer and flame stability. Sizes 6, 7 and 8 employ a 36° "V" spline design to provide increased gas flows and extra secondary flame length required on thicker plate. The Style 275 is for hand or machine cutting.

Stock No.	Material Thickness	Tip Size	Drill Size	Oxygen		Natural Gas		Propane		Cutting Speed Range (IPM)
				PSI	CFH	PSI	CFH	PSI	CFH	
813-2799	3/16	00	72 (.025)	25	55	2-4	18	2	8	20-24
813-2750	1/4	0	68 (.031)	35	65	2-4	18	2	8	20-24
813-2750	3/8	0	68 (.031)	40	86	3-5	25	3	11	19-23
813-2751	1/2	1	62 (.038)	45	115	3-5	28	3	12	19-23
813-2752	1	2	56 (.046)	55	177	3-5	28	3	12	14-19
813-2753	1 1/2	3	54 (.055)	55	235	4-7	30	4	14	12-16
813-2754	2 1/2	4	52 (.063)	55	300	4-7	30	4	14	9-13
813-2755	3	5	49 (.073)	50	365	5-8	35	5	16	8-11
813-2756	6	6	39 (.128)	60	610	5-8	35	5	16	5-8
813-2756	8	6	39 (.128)	65	635	5-8	35	5	16	4-6
813-2757	10	7	30 (.169)	65	900	5-8	50	6	18	3-5
813-2757	12	7	30 (.169)	70	975	5-8	50	6	18	3-5
813-2758	14	8	18 (.169)	70	1290	5-8	50	6	18	2-4



Style 375 - 2 Piece

The 375 is identical to the 275, except the cutting oxygen bore is diverged to allow higher cutting oxygen pressure for increased speed in machine cutting operation. For plates over 4" use Style 275.

Stock No.	Material Thickness	Tip Size	Drill Size	Oxygen		Natural Gas		Propane		Cutting Speed Range (IPM)
				PSI	CFH	PSI	CFH	PSI	CFH	
813-3750	3/8	0	68 (.031)	70	62	2-4	25-33	2-3	11-14	20-22
813-3751	1/2	1	62 (.038)	80	115	3-5	30-40	3-4	12-16	18-22
813-3751	3/4	1	62 (.038)	85	121	3-5	30-40	3-4	12-16	18-21
813-3752	1	2	56 (.046)	95	133	3-5	30-40	3-4	12-16	18
813-3753	1 1/2	3	54 (.055)	90	186	4-6	35-45	4-5	14-18	16
813-3754	2 1/2	4	52 (.063)	90	270	4-6	35-45	4-5	14-18	12
813-3755	3	5	49 (.073)	90	380	5-7	40-50	5-6	16-20	11
813-3755	4	5	49 (.073)	90	380	5-7	40-50	5-6	16-20	10



Heavy Shell Style 219 - 2 Piece

This precision made two-piece hand or machine cutting tip features excellent preheat flames and a cutting oxygen stream or "Stinger" which is significantly better than with conventional cutting tips. Sizes 00 through 5 feature a 22° "V" spline design that provides maximum heat transfer and flame stability. Sizes 6, 7 and 8 employ a 36° "V" spline design to provide increased gas flows and extra secondary flame length required on thicker plate.

Stock No.	Material Thickness	Tip Size	Drill Size	Oxygen		Natural Gas		Propane		Cutting Speed Range (IPM)
				PSI	CFH	PSI	CFH	PSI	CFH	
813-2190	¼	00	72 (.025)	35	65	2-4	18	2	8	20-24
813-2190	⅜	0	72 (.025)	40	86	3-5	25	3	11	19-23
813-2191	½	1	68 (.031)	45	115	3-5	28	3	12	19-23
813-2192	1	2	62 (.038)	55	177	3-5	28	3	12	14-19
813-2193	1 ½	3	56 (.046)	55	235	4-7	30	4	14	12-16
813-2194	2 ½	4	54 (.055)	55	300	4-7	30	4	14	9-13
813-2195	3	5	52 (.063)	50	365	5-8	35	5	16	8-11
813-2196	6	6	39 (.089)	60	610	5-8	35	5	16	5-8
813-2196	8	6	39 (.089)	65	635	5-8	35	5	16	4-6
813-2197	10	7	30 (.169)	65	900	5-8	50	6	18	3-5
813-2197	12	7	30 (.169)	70	975	5-8	50	6	18	3-5
813-2197	14	8	18 (.169)	70	1290	5-8	50	6	18	2-4



Heavy Shell Style 319 - 2 Piece

The 319 is identical to the 219, except the cutting oxygen bore is diverged to allow higher cutting oxygen pressure for increased speed in machine cutting operation. For plates over 4" use Style 219.

Stock No.	Material Thickness	Tip Size	Drill Size	Oxygen		Natural Gas		Propane		Cutting Speed Range (IPM)
				PSI	CFH	PSI	CFH	PSI	CFH	
813-3190	⅜	0	68 (.031)	70	62	2-4	25-33	2-3	11-14	20-22
813-3191	½	1	62 (.038)	80	115	3-5	30-40	3-4	12-16	18-22
813-3191	⅝	1	62 (.038)	85	121	3-5	30-40	3-4	12-16	18-21
813-3192	1	2	56 (.046)	95	133	3-5	30-40	3-4	12-16	18
813-3193	1 ½	3	54 (.055)	90	186	4-8	35-45	4-5	14-18	16
813-3194	2 ½	4	52 (.063)	90	270	4-8	35-45	4-5	14-18	12
813-3195	3	5	49 (.073)	90	380	5-7	40-50	5-6	16-20	11
813-3195	4	5	49 (.073)	90	380	5-7	40-50	5-6	16-20	10



CHT Cutting Tips

CHT Cutting Tips (concentrated heat tip) are a series of tips designed to bevel cut with propane or natural gas without the use of auxiliary preheat devices. For bevels up to 75°. NOTE: Intended for beveling only. CHT tips require special use procedure.

Materials Thickness (Inches)	Tip Size	Stock Number	Drill Size
1	3	813-2813	56 (.046)
1 ½	4	813-2814	54 (.055)
2 ½	5	813-2815	52 (.063)
4	6	813-2816	49 (.073)
6	7	813-2817	39 (.099)
8	8	813-2818	30 (.128)
10	9	813-2819	18 (.169)

Cutting Tips

CONCOA/AIRCO Seat Natural Gas and Propane Tips



Style 297 - 2 Piece

Rivet washing tip with heavy preheat and low velocity oxygen stream. It is also used for gouging.

Tip Size	Stock Number
8	813-1928
10	813-1930
12	813-1932



Style 287 - 2 Piece

Heavy preheat with low velocity oxygen stream. For grooving, gouging and removing imperfect welds. The tip is angled at 15°.

Tip Size	Stock Number
6	813-1876
8	813-1878
10	813-1880
12	813-1882



Style 244 - 2 Piece

Tips are heavy preheat, 2 piece tips without a center oxygen hole. Especially used as heating tips in standard cutting torches.

Stock Number	BTU's	Use For	PSIG Fuel	PSIG Oxygen
813-2441	50000	MAPP/Propylene	8	50
813-2443	50000	Natural Gas/Propane	8	50



Style A-SP - 1 Piece

One piece, solid copper, standard speed and have a straight bore oxygen orifice. They are most commonly used for hand cutting operations.

MAPP/Propylene Tips

Materials Thickness (Inches)	Stock Number	Drill Size
3/16	856-0072	72 (.025)
1/4	856-0068	68 (.031)
5/8	856-0065	65 (.035)
1/2	856-0060	60 (.040)
3/4	856-0056	56 (.046)
1 1/4	856-0054	54 (.055)
2	856-0052	52 (.063)
3	856-0049	49 (.073)
4	856-0044	44 (.086)
8	856-0038	38 (.101)
10	856-0031	31 (.120)
12	856-0028	28 (.140)
14	856-0019	19 (.166)
15	856-0015	15 (.180)

Cutting
Tips



Style 233 - 2 Piece

Style 233 tips are general purpose (straight bore) cutting tips for use with MAPP Gas and propylene. These tips feature thin rectangular spline (fine spline) design. This design provides uniform preheat flames with maximum heat transfer. These tips are superior performers for 822 4490 cutting attachment in combination with the 818 0475 torch.

Materials Thickness (Inches)	Tip Size	Stock Number	Drill Size
3/16	00	813-2329	72 (.025)
1/4-3/8	0	813-2330	68 (.031)
1/2	1	813-2331	62 (.038)
1	2	813-2332	56 (.046)
1 1/2	3	813-2333	54 (.055)
2 1/2	4	813-2334	52 (.063)



Style 245 - 2 Piece

General purpose (straight bore) cutting tips for use with MAPP Gas and propylene. These tips feature thin rectangular spline (fine spline) design. This design provides uniform preheat flames with maximum heat transfer. These tips are superior performers for both hand or machine cutting operations.

Materials Thickness (Inches)	Tip Size	Stock Number	Drill Size
3/16	00	813-2499	72 (.025)
1/4-3/8	0	813-2450	68 (.031)
1/2	1	813-2451	62 (.038)
1	2	813-2452	56 (.046)
1 1/2	3	813-2453	54 (.055)
2 1/2	4	813-2454	52 (.063)
3	5	813-2455	49 (.073)
6-8	6	813-2456	39 (.128)
10-12	7	813-2457	30 (.169)
14	8	813-2458	18 (.169)



Style 345 - 2 Piece

Identical to the Style 245 except that the cutting oxygen bore is diverged to allow use of higher cutting oxygen pressures for increased speed in machine cutting operations. For plate over 4" use 245.

Materials Thickness (Inches)	Tip Size	Stock Number	Drill Size
3/8	0	813-3450	68 (.031)
1/2-5/8	1	813-3451	62 (.038)
1	2	813-3452	56 (.046)
1 1/2	3	813-3453	54 (.055)
2 1/2	4	813-3454	52 (.063)
2 3/4	5	813-3455	49 (.073)



Style A-RW - 1 Piece

Tips are one piece, solid copper, high preheat. Used for rivet washing with a large oxygen stream with MAPP/Propylene.

Size	Stock Number
147	856-6401
191	856-6402

Cutting Tips

CONCOA/AIRCO Seat MAPP/Propylene Tips



Style A-B45 - 1 Piece

Tips are one piece, solid copper, standard speed. They are milled flat on both sides, have four (4) preheat holes and are angled 45°. Especially useful for cutting close to bulkheads and cutting rivet heads.

Size	Stock Number
56	856-5256



Style A-G1 - 1 Piece

Tips are one piece, solid copper. They have a complete circle of preheat holes and are angled 30°. Used for deep gouging and de-seaming.

Size	Stock Number
8	856-7207
10	856-7208



Style A-GW30 - 1 Piece

Tips are one piece, solid copper, angled 30°. Used for gouge-washing operations with MAPP/Propylene, especially for removal of defective weld sections.

Size	Stock Number
147	856-7902
191	856-7903



RAM-JET® High Velocity Air Fuel Brazing, Heating and Heat Shrink Tips

RAM-JET high velocity tips perform high temperature phos-copper brazing using very portable gas-air equipment. The unique design of the RAM-JET flame holder insert gives the user a high performance flame.

Acetylene Conventional Tips	
Size	Stock Number
1	810-1011
3	810-1013
5	810-1015
Acetylene RAM-JET® Tips High Velocity	
5	810-1005

MAPP® Gas and Propane Tips RAM-JET® Tips		
Size	Stock Number	Orifice Screw
00	810-1029#	810-1062
0	810-1030	810-1063
1	810-1031#	810-1063
3	810-1033	810-1064
4	810-1034#	810-1074
5	810-1035	None
*	810-1036#	810-1067
*	810-1038#	810-1072
4	810-1044##	810-1072

#-MAPP Only ##Propane Only * Special pencil-point tip for telecommunications industry



Heat Shrink Tip

Size (Inches)	Type	Stock Number	Orifice Screw
7/8"	MAPP®/Propane	810-4616	810-1027
1 1/2"	Acetylene	810-4715	810-1026
2 1/2"	MAPP®	810-4402	810-4405

Heating & Welding Tips

Welding and Brazing Assemblies



Welding Tips



Style 70

Long-flame Tip-mixer Assemblies

These assemblies include a welding tip, a matched mixer, neoprene gas sealing rings and a tip nut. The matched mixer assures full range flame.

Stock No.	Replacement Tip 98 No.	Mixer	Torch Type	Tip Size	Drill Size		Welding Thickness	Acetylene		Oxygen	
					No.	Inch		PSI	CFH	PSI	CFH
810-7020	811-9820	810-0780	750/550	00*	76	0.020	1/64-26 G.	2	1.4	2	1.5
810-7000	811-9800	810-0781*	750/550	0*	72	0.025	1/32-20 G.	2	2.1	2	2.3
810-7001	811-9801	810-0781*	750/550	1*	68	0.031	1/16-16 G.	2	2.5	2	2.75
810-7002	811-9802	810-0781*	750/550	2*	62	0.038	3/32-12 G.	2	4	2	4.4
810-7003	811-9803	810-0781*	750/550	3*	56	0.047	1/8	2	5.5	2	6
810-7004	811-9804	810-0781*	750/550	4*	54	0.055	3/16	2	7.5	2	8.25
810-7005	811-9805	810-0781*	750/550	5*	51	0.067	1/4	2	10	3	11
810-7006	811-9806	810-0781	750/550	6	48	0.076	5/16	2	15	3	16.5
810-7007	811-9807	810-0781	750/550	7	44	0.086	3/8	3	22	4	24
810-7008	811-9808	810-0781	750/550	8	40	0.098	1/2	4	32	5	32.2
810-7009	811-9809	810-0781	750/550	9	35	0.110	5/8	5	44	6	48.4
810-7010	811-9810	810-0781	750/550	10	30	0.128	3/4 - up	7	60	10	66

* Can use either mixer 810-0780 or 810-0781



Style 80

Long-flame Tip-mixer Assemblies

These assemblies include a welding tip, a matched mixer, neoprene gas sealing rings and a tip nut. The matched mixer assures full range flame.

Stock No.	Replacement Tip 98 No.	Mixer	Torch Type	Tip Size	Drill Size		Welding Thickness	Acetylene		Oxygen	
					No.	Inch		PSI	CFH	PSI	CFH
811-8000	811-9800	811-0890*	800	0*	72	0.025	1/32-20 G.	2	2.1	2	2.3
811-8001	811-9801	811-0890*	800	1*	68	0.031	1/16-16 G.	2	2.5	2	2.75
811-8002	811-9802	811-0890*	800	2*	62	0.038	3/32-12 G.	2	4	2	4.4
811-8003	811-9803	811-0890*	800	3*	56	0.047	1/8	2	5.5	2	6
811-8004	811-9804	811-0890*	800	4*	54	0.055	3/16	2	7.5	2	8.25
811-8005	811-9805	811-0890*	800	5*	51	0.067	1/4	2	10	3	11
811-8006	811-9806	811-0890	800	6	48	0.076	5/16	2	15	3	16.5
811-8007	811-9807	811-0890	800	7	44	0.086	3/8	3	22	4	24
811-8008	811-9808	811-0890	800	8	40	0.098	1/2	4	32	5	32.2
811-8009	811-9809	811-0890	800	9	35	0.110	5/8	5	44	6	48.4
811-8010	811-9810	811-0890	800	10	30	0.128	3/4 - up	7	60	10	66

* Can use either mixer 811-0890 or 811-1800

Welding Tips



Style 474

Long-flame Tip-mixer Assemblies

Specifically designed for use with Style 350/450 and 475 only. These tips are ideal for very light welding and brazing operations in the auto body, air conditioning and refrigeration industries, appliance and metal furniture production, as well as for use in arts and crafts, jewelry and hobbies.

Stock No.	Replacement Tip 91 No.	Mixer	Torch Type	Tip Size	Drill Size		Welding Thickness	Acetylene		Oxygen	
					No.	Inch		PSI	CFH	PSI	CFH
810-4730	810-9113	810-9199	350/450/475	000	77	0.018	30 Gauge	1.5	1.2	1.5	1.2
810-4720	810-9112	810-9199	350/450/475	00	76	0.020	1/64-26 G.	1.5	1.4	1.5	1.5
810-4700	810-9111	810-9199	350/450/475	0	72	0.025	1/32-20 G.	1.5	2.1	1.5	2.3
810-4701	810-9101	810-9199	350/450/475	1	68	0.031	1/16-16 G.	1.5	2.5	1.5	2.75
810-4702	810-9102	810-9199	350/450/475	2	62	0.038	3/32-12 G.	2	4	2	4.4
810-4703	810-9103	810-9199	350/450/475	3	56	0.047	1/8	2	5.5	2	6
810-4704	810-9104	810-9199	350/450/475	4	54	0.055	3/16	2	7.5	2	8.25
810-4705	810-9105	810-9201	350/450/475	5	51	0.067	1/4	2.5	10	3	11
810-4706	810-9106	810-9201	350/450/475	6	48	0.076	5/16	2.5	15	3	16.5

Interchangeable Tips



Style 91

Long-flame-type welding tips

Made of heavy wall 1/4" (6mm) OD copper tube. For medium and light welding and brazing.

Stock Number	Size	Drill Size		Welding Thickness	Use With Torch	Use Mixer	Length (In.)	Acetylene		Oxygen	
		No.	Inch.					PSI	CFH	PSI	CFH
810-9113	000	77	0.018	30 Gauge	350/450/475	810-9199	4 1/4	1.5	1.2	1.5	1.2
810-9112	00	76	0.020	1/64-26 G.	350/450/475	810-9199	4 1/4	1.5	1.4	1.5	1.5
810-9111	0	72	0.025	1/32-20 G.	350/450/475	810-9199	4 1/4	1.5	2.1	1.5	2.3
810-9101	1	68	0.031	1/16-16 G.	350/450/475	810-9199	4 1/4	1.5	2.5	1.5	2.75
810-9102	2	62	0.038	3/32-12 G.	350/450/475	810-9199	4 1/4	2	4	2	4.4
810-9103	3	56	0.047	1/8	350/450/475	810-9199	4 1/4	2	5.5	2	6
810-9104	4	54	0.055	3/16	350/450/475	810-9199	4 1/4	2	7.5	2	8.25
810-9105	5	51	0.067	1/4	350/450/475	810-9199	4 1/4	2.5	10	3	11
810-9106	6	48	0.076	5/16	350/450/475	810-9199	4 1/4	2.5	15	3	16.5

Heating & Welding Tips



Interchangeable Welding Tips



Style 98

Long-flame-type welding tips

These tips produce a long-reaching type of flame that provides good heat concentration. They are ideal for light and medium welding and many jobs where long-reaching flame is required. General purpose welding and brazing.

Stock Number	Size	Drill Size		Welding Thickness				Acetylene		Oxygen	
		No.	Inch.		Use Torch	With Mixer	Length (In.)	PSI	CFH	PSI	CFH
811-9820	00	76	0.020	1/64-26 G.	750/550	810-0780	4 1/8	2	1.4	2	1.5
811-9800	0	72	0.025	1/32-20 G.	750/550	810-0780	4 1/8	2	2.1	2	2.3
811-9801	1	68	0.031	1/16-16 G.	750/550	810-0780	4 1/8	2	2.5	2	2.75
811-9802	2	62	0.038	3/32-12 G.	750/550	810-0780	4 1/8	2	4	2	4.4
811-9803	3	56	0.047	1/8	750/550	810-0780	4 1/8	2	5.5	2	6
811-9804	4	54	0.055	3/16	750/550	810-0780	5 1/8	2	7.5	2	8.25
811-9805	5	51	0.067	1/4	750/550	810-0780	5 1/8	2	10	3	11
811-9806	6	48	0.076	5/16	750/550	810-0780	7 1/8	2	15	3	16.5
811-9807	7	44	0.086	3/8	750/550	810-0780	7 1/8	3	22	4	24
811-9808	8	40	0.098	1/2	750/550	810-0780	9 1/8	4	32	5	32.2
811-9809	9	35	0.110	5/8	750/550	810-0780	9 1/8	5	44	6	48.4
811-9810	10	30	0.128	3/4 and up	750/550	810-0780	9 1/8	7	60	10	66
00-5					800	811-1800					
1-10					800	811-0890					



Style 9

Interchangeable Style Bulbous Flame Tips

These tips have a bulbous type of flame and are perfect for silver brazing hard-to-reach joints. They are ideal for applying heat to hard-to-reach locations.

Stock Number	Size	Drill Size		Use With Torch	Use Mixer	Acetylene		Oxygen	
		No.	Inch.			PSI	CFH	PSI	CFH
811-0900	00	76	0.020	550	810-7650	2	1.4	2	1.5
811-0920	0	72	0.025	550	810-7655	2	2.1	2	2.3
811-0901	1	68	0.031	550/750	810-0780	2	2.5	2	2.75
811-0902	2	62	0.038	550/750	810-0780	2	4	2	4.4
811-0903	3	56	0.047	550/750	810-0780	2	5.5	2	6
811-0904	4	54	0.055	550/750	810-0780	2	7.5	2	8.25
811-0905	5	51	0.067	550/750	810-0780	2	10	2	11
811-0906	6	48	0.076	550/750	810-0780	2	15	2	16.5
811-0907	7	44	0.086	550/750	810-0780	3	22	4	24
811-0908	8	40	0.098	550/750	810-0780	4	32	5	32.2
811-0909	9	35	0.110	550/750	810-0780	5	44	6	48.4
811-0910	10	30	0.128	550/750	810-0780	7	60	10	68
1-10				550/750	810-0781				
00-10				800	811-0891				

Universal Multi-flame Brazing and Heating Tips



Style 754 Heating Tip

This heating tip is particularly useful in light range heating and brazing.

Sizes	Stock Number	For Torch	Use Mixer
8	810-0968	350/450/475	810-9201



Style 756

Universal Single-tube Multi-flame Heating Tip

Medium to heavy heating tip designed for bronze brazing heavy sections, flame-heating, flame-hardening, these tips effectively provide concentrated heat which permits fast, efficient work.



Sizes	Stock Number	When Used With Torch	Use Mixer
10	811-1910	800	810-9201
12	811-1912		
13	811-1913		
14	811-1914		



Style 759

Multi-flame heating tip - separable type

These heating tips are useful in light range heating and brazing operations, and efficiently concentrate heat using seven flames.

Sizes	Stock Number	When Used With Torch	Use Mixer	For Tip Size	Extensions	
					Stock Number	Description
5	810-0975	350/450/475	810-9201	5,7,8	810-0828	6" Rigid
7-10	810-0977 through 810-0980	550	810-0781	5,10	811-1411	9" Rigid
		550/750	810-0781	5,10	811-1412	4" Rigid
		800	811-0890	5,7,8	811-0829	8" Dual Flexible



Style 757

Universal Multi-flame Heating Tip

Interchangeable Type

These tips are useful for medium to very heavy bronze brazing, flame-heating, hardening, and are characterized by flame stability and heating efficiency.



Size	Stock Number	When Used With Torch	Use Mixer	Extensions	
				Stock Number	Description
12-14	811-2032 thru 811-2034	800	811-0899	811-0853*	18" Rigid
				811-0991*	24" Rigid
16-18**	811-2036 thru 811-2038			811-0992*	42" Rigid

** 16,17, 18 not for use with Acetylene

* Must use 811-1410 tip adapter with these extensions

Heating & Welding Tips



Style 760 and 860

Tip and Mixer Assembly

Compatible with all fuels, flame ends are removable (Style 761) for replacement or for changing to other flame head sizes.

Style	Sizes	Stock Number	Mixer	For Torch
760	5	810-2705	810-2015	550/750
760	7	810-2707	810-2015	550/750
760	8	810-2708	810-2015	550/750
760	9	810-2709	810-2015	550/750
760	10	810-2710	810-2015	550/750

Style	Sizes	Stock Number	Mixer	For Torch
860	5	811-3805	811-2017	800
860	7	811-3807	811-2017	800
860	8	811-3808	811-2017	800
860	9	811-3809	811-2017	800
860	10	811-3810	811-2017	800

760/860 Replacement Heads	Sizes	Stock Number	Thread
761	5	810-1075	1/8"-27 NPSM Thread
761	7	810-1077	1/8"-27 NPSM Thread
761	8	810-1078	1/8"-27 NPSM Thread
761	9	811-1079	1/8"-27 NPSM Thread
761	10	811-1080	1/8"-27 NPSM Thread

Replacement Tube

810-2016



MAPP Heating Heads

Stock Number	Internal Thread Size	Style
817-0500	1/2"-25	MPH-HD1
817-0501		MPH-HD2
817-0502		MPH-HD3
817-0503		MPH-HD4
817-0504		MPH-HD5

Goosenecks



Shown 811-0853

Stock Number	External Thread Size	Internal Thread Size	Length (In.)
811-0853	1/2"-20 M	1/2"-20 F	18
811-0991			24
811-0992			42

Stock Number	Tip Adapter Style
811-1410	Style 757 Heating Tip (1/2"-20M to 9/16"-18M)
817-0327	MAPP Heating Tip (1/2"-20M to 1/2"-25M)



Air-Fuel Outfits

CONCOA Air-Fuel Outfits contain matched components which form an effective basic system for a wide variety of soldering, heating and brazing applications. Specific applications include plumbing, air conditioning, refrigeration, metal sculpture, soft soldering, sweating copper, silver brazing, phos copper, metal bending, straightening and heat treatment, paint removal, pipe thawing, automotive repair and other forms of general maintenance.

Outfit Type	Stock Number	Gas Service	Air-Fuel Torch	Hose (AIRCO 500 M)	Regulator	CGA No.	Tip
Conventional	840-0092	Acetylene	818-0274	831-2846	806-7452	520 (B)	810-1013
High-Velocity	840-0093	Acetylene				520 (B)	810-1005
Ram-Jet	840-0094	MAPP Gas			806-7432	510 (POL)	810-1034

MAPP Gas Braze-Pak®

Braze-Pak®, the professional hand-torch outfit with a disposable one-pound MAPP gas cylinder, is ideal for use by plumbers, heating and air conditioning contractors, for home repairs, farm repairs, artists and the home hobbyist in metal work as well as many other applications.

Component	Stock Number
Complete Outfit	840-0097
#4 MAPP Air Tip	810-1034
Regulator, Adj. Pressure (CGA 600)	806-7019
Cylinder, MAPP	890-4401
Sparklighter	915-0200



TOTE-WELD Portable Kits

Designed for light-duty cutting up to 2 1/2" and welding up to 5/16". Specific applications include plumbing, air conditioning, refrigeration, metal sculpture, soft soldering, silver brazing and other forms of general maintenance. Several portable welding and cutting outfit models are available. Weight: 30 lbs, 13.5 kg.

Outfit Stock Number	840-2475	840-2476	840-4475	840-4476
	Acetylene	Acetylene w/o Cylinder	MAPP	MAPP w/o Cylinder
Case	815-0142	815-0142	815-0142	815-0142
Torch Handle	818-0475	818-0475	818-0475	818-0475
Cutting Tip	854-1200	854-1200	854-1200	854-1200
Cutting Attachment	822-4490	822-4490	822-4490	822-4490
Tip Assembly	810-4702	810-4702	810-4702	810-4702
Cylinder Acetylene*	890-5319	--	--	--
Cylinder MAPP	--	--	890-4401	--
Cylinder Oxygen*	890-5321	--	890-5321	--
Acetylene Regulator (CGA 200)	806-7472	806-7472	--	--
Oxygen Regulator (CGA 540)	806-7416	806-7416	806-7416	806-7416
Pressure Regulator (CGA 600)	--	--	806-7014	806-7014
Wrench	809-0038	809-0038	--	--
Hose (12 1/2 ft)	908-1302	908-1302	908-1302	908-1302
Sparklighter	915-0200	915-0200	915-0200	915-0200
Goggles	906-2205	906-2205	906-2205	906-2205
1 oz. Flux #12*	904-1299	904-1299	904-1299	904-1299
1 oz. Flux #162*	904-0699	904-0699	904-0699	904-0699
#27 Brazing Rod =(3/32)*	911-4099	911-4099	911-4099	911-4099
#27 Brazing Rod =(1/16)*	914-6812	914-6812	914-6812	914-6812

CONCOA MASTER

Welding, Cutting & Heating Outfits

CONCOA® Master Series
CONCOA Master Series II & II
Super CONCOA Master Series
SuperMaster Series



CONCOA Master III (840-5646) Shown

CONCOA® Master Series

The outfit is designed for heavy-duty welding and cutting. It is particularly suited for use in sheet metal work, auto repairs, and maintenance work on farms, in industrial plants, and in the air conditioning and refrigeration fields. The complete outfit includes all equipment necessary to perform quality welding and cutting. The components supplied will weld steel up to 1/4" thick and cut metal up to 1" thick. With optional equipment, torch can weld up to 3/4" and cut up to 6". The outfit consists of a welding torch, two single stage regulators with gauges, two welding tip mixer assemblies, one cutting attachment and tip, safety goggles, sparklighter, hose and booklets.

Complete Outfit	840-0066	840-0099
Style 750 Welding Torch	818-0750	818-0750
Style 5500 Regulator Oxygen (CGA 540)	806-5506	806-5506
Style 5500 Regulator Standard Acetylene (CGA 300)	806-5502	--
Style 5500 Regulator Fuel Gas (CGA 510) POL	--	806-5509
Style 5790 Cutting Attachment	822-5790	822-5790
Style 138 No. 1 Acetylene Cutting Tip	854-3801	854-3801
Style 70 Welding Tip, Size No. 1	810-7001	810-7001
Style 70 Welding Tip, Size No. 3	810-7003	810-7003
Style 70 Welding Tip, Size No. 5	810-7005	810-7005
Style 760 Heating Tip Assembly, Size 7	810-2707	810-2707
Hose - 25 ft., 1/4" Twin (Grade "R")	908-1425	908-1425
Goggles	906-2255	906-2255
Sparklighter	915-0200	915-0200

CONCOA® Master Series I

The Master outfit is an all-purpose outfit at an attractive price for medium-to-heavy-duty work. The equipment as supplied can weld materials up to ¼ inch (6.4 mm) thick, cut steel plate up to 1½ inches (38.1 mm) thick, and produce up to 74,000 BTUs of heat. Using larger, optionally available, cutting and welding tips, work range can be increased to weld up to 1 inch (25.4 mm), cut up to 6 inches (152.4 mm), and produce 163,000 BTUs of heat.

Complete Outfit	840-5602	840-5609	840-5632*	840-5637**
Style 750 Welding Torch	818-0750	818-0750	818-0750	818-0750
Style 5600 Regulator, Oxygen (CGA 540)	806-5606	806-5606	806-5606	806-5606
Style 5600 Regulator, St. Acetylene (CGA 300)	806-5602	--	--	--
Style 5600 Regulator, Fuel Gas (CGA 510) POL	--	806-5609	806-5632	806-5632
Style 5790 Cutting Attachments	822-5790	822-5790	822-5790	822-5790
Style 144 Cutting Tip Size No. 1 (Acet.)	854-4401	854-4401	--	--
Style 144 Cutting Tip Size No. 3 (Acet.)	854-4403	854-4403	--	--
Style 245 Cutting Tip Size No. 1 (MAPP)	--	--	813-2451	--
Style 245 Cutting Tip Size No. 3 (MAPP)	--	--	813-2453	--
Style 275 Cutting Tip Size No. 1 (Propane)	--	--	--	813-2751
Style 275 Cutting Tip Size No. 3 (Propane)	--	--	--	813-2753
Style 98 Welding Tip Size No. 3	811-9803	811-9803	811-9803	811-9803
Style 761 No. 7 Heating Tip	810-1077	810-1077	810-1077	810-1077
Extension Tube	810-2016	810-2016	810-2016	810-2016
Mixer	810-0781	810-0781	810-0781	810-0781
Goggles	906-2205	906-2205	906-2205	906-2205
Sparklighter	915-0200	915-0200	915-0200	915-0200

CONCOA® Master Series II & III

These sturdy heavy-duty outfits are complete packages providing quality and versatility for welding, heating and cutting operations. The components supplied weld steel up to ¼" thick and cut metal up to 1½" thick. With optional equipment it will weld up to ¾" thick and cut up to 6" thick. Applications include maintenance work in industrial plants and on farms; automotive repairs; sheet metal work; air conditioning and refrigeration maintenance; pipe welding; and heating. The outfits include two high performance single stage regulators, welding torch, cutting attachment, welding tips, heating tip mixer assembly, hose, goggles, sparklighter and booklets.

Complete Outfit	CONCOA Master II		CONCOA Master III	
	840-5626	840-5636	840-5646	840-5656
Style 750 Welding Torch	818-0750	818-0750	818-0750	818-0750
Welding Tip, Size No. 1	810-7001	810-7001	811-9801	811-9801
Welding Tip, Size No. 3	810-7003	810-7003	811-9803	811-9803
Welding Tip, Size No. 5	810-7005	810-7005	811-9805	811-9805
Mixer	--	--	810-0780	810-0780
Style 760 #7 Universal Heating Tip Assembly	810-2707	810-2707	810-2707	810-2707
Style 5790 Cutting Attach. w/90° Head	822-5790	822-5790	822-5790	822-5790
Style 144 No. 2 Acetylene Cutting Tip*	854-4402	854-4402	854-4402	854-4402
Regulator, Oxygen (CGA 540)	806-6515	806-6515	806-6515	806-6515
Regulator, Standard Acetylene (CGA 300)	806-6512	--	806-6512	--
Regulator, Fuel Gas (CGA 510) POL	--	806-6519	--	806-6519
Hose 25 ft., ¼" Twin (Grade 'RM')	908-0425	908-0425	908-1425**	908-1425**
Goggles	906-2255	906-2255	906-2255	906-2255
Sparklighter	915-0200	915-0200	915-0200	915-0200

* For cutting with propane, MAPP, or natural gas under pressure, refer to section on cutting tips.

** Use Grade "R" and "RM" for Acetylene only. Grade "T" hose for all other fuel gases.



Super CONCOA® Master Series

The Super CONCOA® Master Series is well-suited for extra heavy-duty oxy-acetylene welding, heating and brazing. These heavy-duty outfits provide top quality and versatility for the most demanding welding, heating and cutting operations. The components supplied will weld steel up to ¼" thick and cut metal up to 2" thick. With optional equipment it will weld up to ¾" thick and cut up to 8". Applications include heavy construction, maintenance in industrial plants and heavy equipment repair. The outfit includes top-of-the-line 8400 Series two-stage regulators with CONCOA's highest capacity torch and cutting attachment, three welding tip mixer assemblies, two cutting tips, heating tip mixer assembly, safety goggles, hose, sparklighter and booklets.

Complete Outfit	840-0926	840-0925	840-0936
Style 800 Welding Torch	819-0800	819-0800	819-0800
Welding Tip Assembly, Size No. 1	811-8001	811-8001	811-8001
Welding Tip Assembly, Size No. 3	811-8003	811-8003	811-8003
Welding Tip Assembly, Size No. 5	811-8005	811-8005	811-8005
Style 860 No. 8 Universal heating Tip Assembly	811-3808	811-3808	811-3808
Style 5800 Cutting Attachment, w/ 75° Head	--	822-5875	--
Style 5800 Cutting Attachment, w/ 90° Head	822-5890	--	822-5890
Style 144 No. 1 Acetylene Cutting Tip	854-4401	854-4401	854-4401
Style 144 No. 3 Acetylene Cutting Tip	854-4403	854-4403	854-4403
Regulator, Oxygen (CGA 540)	806-8456	806-8456	806-8456
Regulator, Acetylene (CGA 300)	806-8402	806-8402	--
Regulator, Fuel Gas (CGA 510)	--	--	806-8409
Hose - 25 ft. x 5/16" (Grade "RM")	908-0575	908-0575	908-0575
Goggles	906-2255	906-2255	906-2255
Sparklighter	915-0200	915-0200	915-0200

SuperMaster Series

The Super Master® outfit is an all-purpose outfit at an attractive price for heavy-to-extra heavy-duty work. The equipment as supplied can weld materials up to ¼" inch (6.4 mm) thick, cut steel plate up to 1½" (38.1 mm) thick and produce up to 74,000 BTUs of heat. Using larger, optionally available, cutting and welding tips, work range can be increased to weld up to 1" (25.4 mm), cut up to 8" (203.2 mm) and produce 1,350,000 BTUs of heat.

Complete Outfit	840-6602	840-6609	840-6632	840-6637
Style 800 Welding Torch	819-0800	819-0800	819-0800	819-0800
Style 6600 Regulators	Acetylene	Acetylene	MAPP	Propane
Oxygen (CGA 540)	806-6606	806-6606	806-6606	806-6606
Standard Acetylene (CGA 300)	806-6602	--	--	--
Fuel Gas (CGA 510) POL	--	806-6609	806-6632	806-6632
Style 5890 Cutting Attachment	822-5890	822-5890	822-5890	822-5890
Style 144 Cutting Tip Size No. 1 (Acet.)	854-4401	854-4401	--	--
Style 144 Cutting Tip Size No. 3 (Acet.)	854-4403	854-4403	--	--
Style 245 Cutting Tip Size No. 1 (MAPP)	--	--	813-2451	--
Style 245 Cutting Tip Size No. 3 (MAPP)	--	--	813-2453	--
Style 275 Cutting Tip Size No. 1 (Propane)	--	--	--	813-2751
Style 275 Cutting Tip Size No. 3 (Propane)	--	--	--	813-2753
Style 98 Welding Tip Size No. 3	811-9803	811-9803	811-9803	811-9803
Style 761 No. 7 Heating Tip	810-1077	810-1077	810-1077	810-1077
Extension Tube	810-2016	810-2016	810-2016	810-2016
Mixer	810-0781	810-0781	810-0781	810-0781
Goggles	906-2205	906-2205	906-2205	906-2205
Sparklighter	915-0200	915-0200	915-0200	915-0200

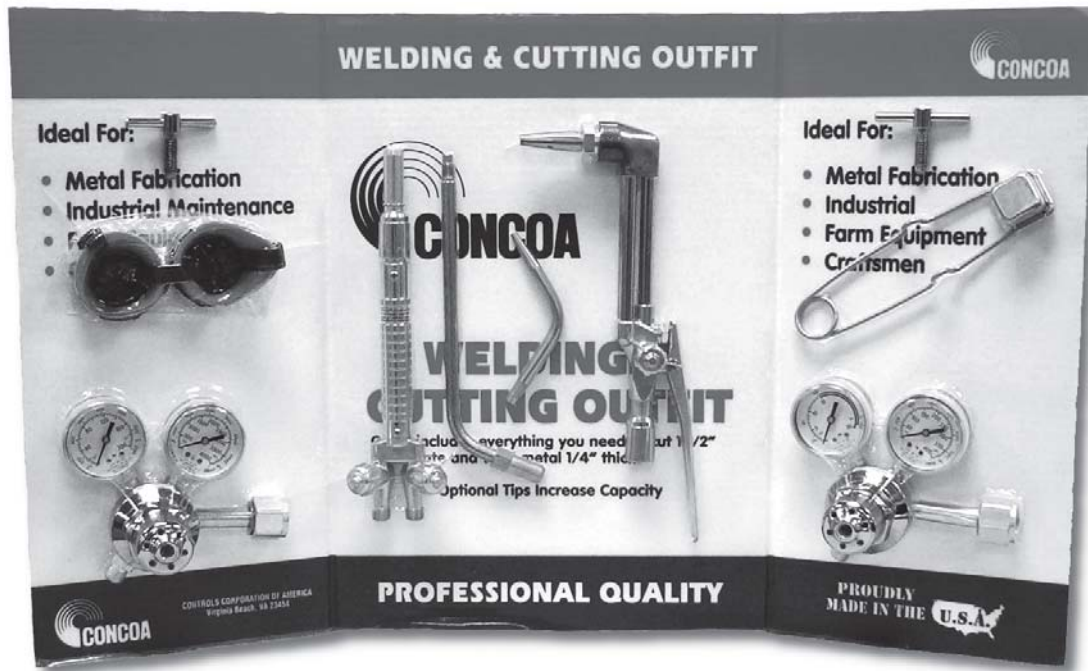


840-9006 Heavy Cutter Outfit Shown

Heavy Cutter

The Heavy Cutter kits provide quality equipment for cutting steel up to 12" thick. It is primarily for contractors in steel erection or fabrication, scrap dealers, and for demolition contractors. It is also ideal for riggers, millwrights, rescue squads and police and fire departments. The outfit includes the rugged premium quality 822-9516 torch with triangular tube arrangement or the 822-9086 for those who prefer the in-line tube configuration. Both torches feature stainless steel heads and tubes, and sure-grip handles. The torches are positive pressure tip mixing type which provide a wide range of preheat intensity with any popular fuel. The outfit includes CONCOA's 9600 Series extra heavy-duty single-stage cylinder regulators. The **NEW 9700 Outfits** are equipped with CONCOA's 9700 Series Cutting Torch. It has a brass head and nickel alloy triangular tubes for strength and durability. The Outfit also has the **6500 Series Capsule® regulator with CONCOA's exclusive 5-year warranty.**

Item	Stock No.								
Complete Outfit	840-9006	840-9009	840-9505	840-9506	840-9566	840-9569	840-9732	840-9766	840-9769
Std. Oxygen Regulator (CGA 540)	806-9606	806-9606	806-9606	806-9606	806-6506	806-6506	806-6506	806-6506	806-6506
Std. Acetylene Regulator (CGA 300)	806-9602	--	806-9602	--	806-6502	--	--	806-6502	--
Fuel Gas Regulator (CGA 510) POL	--	806-9606	--	806-9606	--	806-6509	806-6532	--	806-6509
90° Cutting Torch	822-9086	822-9086	822-9516	822-9516	822-9516	822-9516	822-9706	822-9706	822-9706



CONCOA Kits

The outfit is an all-purpose outfit at an attractive price for medium duty work. The equipment as supplied can weld materials up to 1/4" (6.4 mm) thick, and cut steel plate up to 1 1/2" (38.1 mm) thick. Using larger, optionally available cutting and welding tips, work range can be increased to weld up to 1 inch (25.4 mm) and cut up to 6 inches (152.4 mm).

Complete Outfit	840-0026*	840-0036*	840-0046*	840-0056*	840-0029*	840-0039*	840-0049*	840-0059*	840-2266**	840-2276**	840-2289**	840-2299**
Welding Torch	818-0750	818-0750	818-0750	818-0750	818-0750	818-0750	818-0750	818-0750	818-0750	818-0750	818-0750	818-0750
Regulator, Oxygen (CGA 540)	806-5506	806-5506	806-5506	806-5506	806-5506	806-5506	806-5506	806-5506	806-5506	806-5506	806-5506	806-5506
Standard Acetylene (CGA 300)	806-5502	806-5502	806-5502	806-5502	--	--	--	--	806-5502	806-5502	--	--
Fuel Gas (CGA 510) POL	--	--	--	--	806-5509	806-5509	806-5509	806-5509	--	--	806-5502	806-5502
Cutting Attachment	822-5790	822-5790	822-5790	822-5790	822-5790	822-5790	822-5790	822-5790	822-5790	822-5790	822-5790	822-5790
Style 144 No. 2 Acetylene Cutting Tip	854-4402	854-4402	854-4402	854-4402	854-4402	854-4402	854-4402	854-4402	854-4402	854-4402	854-4402	854-4402
Style 98 Welding Tip Size No. 3	811-9803	811-9803	811-9803	811-9803	811-9803	811-9803	811-9803	811-9803	811-9803	811-9803	811-9803	811-9803
Style 761 No. 7 Heating Tip H.D.	--	810-1077	810-1077	--	--	810-1077	810-1077	--	--	810-1077	810-1077	--
Extension Tube	--	810-2016	810-2016	--	--	810-2016	810-2016	--	--	810-2016	810-2016	--
Mixer No. 00-5 Only	810-0780	--	--	810-0780	810-0780	--	--	810-0780	810-0780	--	--	810-0780
Mixer No. 0-10 General Purpose	--	810-0781	810-0781	--	--	810-0781	810-0781	--	--	810-0781	810-0781	--
Goggles	906-2205	906-2205	906-2205	906-2205	906-2205	906-2205	906-2205	906-2205	906-2205	906-2205	906-2205	906-2205
Sparklighter	915-0200	915-0200	915-0200	906-0200	915-0200	915-0200	915-0200	915-0200	915-0200	915-0200	915-0200	915-0200
12 1/2' Hose Grade "R"	908-1362	908-1362	--	--	908-1362	908-1362	--	--	--	--	--	--

* Tray Packed

**Skin Packed



550 Torch and Attachments
(See page 45 for detailed chart)

CONCOA Steel Master Kit

Steel Master™ is an economical all-purpose alternative for most welding and cutting needs. These quality matched components can weld metals up to ¼" (6.4mm) thick, and cut steel up to 1½" (38.1 mm) thick. These capacities can be increased, using larger optional tips, to weld up to 1" (25.4 mm) and cut up to 4" (101.6 mm).

Complete Outfit	840-1006	840-1009	840-1016	840-1019
Style 550 Welding Torch	818-0550	818-0550	818-0550	818-0550
Style 4700 Regulator, Oxygen (CGA 540)	806-4706	806-4706	806-4706	806-4706
Style 4700 Regulator, Std. Acetylene (CGA 300)	806-4702	--	806-4702	--
Style 4700 Fuel Gas (CGA 510) POL	--	806-4709	--	806-4709
Style 3500 Cutting Attachment	822-3590	822-3590	822-3590	822-3590
Style 134 No. 2 Cutting Tip	854-3402	854-3402	854-3402	854-3402
Style 98 Welding Type Size No. 3	811-9803	811-9803	811-9803	811-9803
Mixer No. 00-5 Only	810-0780	810-0780	810-0780	810-0780
Hose 12 ½', 3/16" (B&B)	--	--	908-1362	908-1362
Goggles	--	--	906-2205	906-2205
Sparklighter	--	--	915-0200	915-0200



Accessories

Torch Accessories



Adjustable Angular Torch Heads

Adjustable Angular Torch Heads permit bevel and straight line cutting without the need to angle the torch. Total angular adjustment on either side of the vertical plane is 125°. The additional 35° from the horizontal enables cutting from below work level when necessary. Indexing marks of 5° increments are forged in the face of the Adapter body to facilitate adjustment at any required degree. Tip sizes up to number 6 can be used with this attachment.

Torch	Stock No.
4700 Series	831-2100



Duplex Tip Holders

The Adjustable Duplex Tip Holder permits 2 parallel cuts to be made simultaneously with one CONCOA cutting torch. Easily adjusted to cut metal strips between 1 1/4" and 12" wide (3.2 and 305. cum). It can be used for work to 3" (7.6 cm) plate thickness.

Torch	Fuel Gas	Stock No.
4700 Series	MAPP Gas, Acetylene, Propane and Natural Gas	831-2925



Flash Circle Burner

Cut accurate circles with the versatile, lightweight Flash Circle Burner. The Flash Circle Burner is adjustable to cut circles 2 1/2" (6.35 cm) to 17" (43.8 cm) in diameter. When a special extension bar 11" (27.94 cm) long and an Adapter are added to the Flash Circle Burner, it is possible to cut circles up to 30" (50.8 cm) in diameter.

Item	Stock No.
1100, 3000, 9000, 9500 & 9700 Torches	831-2925
3700, 4600, 4700, 4800, 5700, 5800 Style Attachments	
11" Extension Bar Adapter	831-1448



Circle Cutting Attachment

Precise circle cutting with hand torches or machine torches is easily accomplished with a Circle Cutting Attachment. It cuts circles 1" through 26" in diameter.

Torch	Stock No.
3000, 9000, 9500 & 9700 Series	831-3100



Guide Roller Attachment

Guide your torch steadily over larger plates and forgings with a Guide Roller Attachment. The guide roller attachment can accommodate either 75° or 90° heads. It consists of two small wheels, each drilled with six holes for venting and to prevent warping.

Torch	Stock No.
3000, 7000, 9000, 9500, 9700 Series Hand Cutting Torches	831-0667
3700, 4690, 4700, 4800, 5700 and 5800 Series Cutting Attachments	

Accessories

Torch Accessories



Torch Check Valves

CONCOA Torch Check Valves are designed to prevent reverse flow of mixed gases beyond the torch inlet connections on hand and machine torches. For two hose torches, a pair of check valves is recommended, one for the oxygen line and another for the fuel gas line. An additional oxygen check valve is desirable for the cutting oxygen line on three hose machine cutting torches if individual cutting oxygen solenoid are not used on each torch in a multi-torch system. The fuel gas check valve is for use with acetylene, MAPP, propane or natural gas and operates effectively on injector and positive pressure torches. CONCOA check valves are mounted at the torch inlet connections.

Torch Check Valves		Connections	
Service	Stock No.	Torch End	Hose End
Oxygen "B"	831-4146	9/16"-18 RH Int.	9/16"-18 RH Int.
Fuel Gas "B"	831-4138	9/16"-18 LH Int.	9/16"-18 LH Int.

No. 56 Orifice for 4700 Machine Torch 831-3022



Torch Mounted Flashback Arrestors

Designed to attach at inlets of oxy-fuel torches. Prevents reverse flow of gases. Torch Arrestor Pac consists of matched set of one oxygen and one fuel arrestor. UL listed and complies with ISO 5175, DIN 8521 and BS 6158. See Page 68 for more flashback arrestors.

Torch Arrestor Pac - Set of Two - 801-1460

Service	Stock No.	Regulator End	Hose End	PSIG
Oxygen	801-7008	9/16"-18 RH Int.	9/16"-18 LH Int.	150
Fuel	801-7007	9/16"-18 LH Int.	9/16"-18 LH Int.	75*

* Acetylene is limited to 15 PSIG maximum working pressure.



Gas Mizer

A Gas Mizer can save you up to 50% on oxygen and fuel gas consumption in operations where torches are used intermittently. Installed between the regulator and the torch, a Gas Mizer will close off the oxygen and fuel gas supply whenever the torch is hung from the handy arm hook. When the torch is picked up, the Gas Mizer starts the flow of oxygen and fuel gas. The torch can be ignited by passing it across the pilot light. Drilled for bench mounting, the Gas Mizer may be mounted right at the work area for maximum convenience. The inlet and outlet have "B" connections.

Pilot burner sold separately according to appropriate gas.

Item	Stock No.
Basic Gas Mizer (Order One)	803-0480
Pilot Light Burner (Order One), Acetylene	803-0477
Pilot Light Burner, MAPP Gas/Propylene	817-0834
Pilot Light Burner, Natural Gas/Propane	803-0478
Heliweld® Gas Mizer (No Pilot Light)	803-0225
Pilot Valve	817-0835
Pilot Adapter	817-0836

5/16-24M 1/4-32M



810-0828 Shown

1/4-32M 1/4-32M



818-0960 Shown

Stock No.	For Tip Style	For Tip Sizes	For Torch	Description
810-0828	759	7,8	350/450/474/475	6" (15.2cm) Flexible Extension
818-0960	9	00-5		4 1/2" (11.4cm) Flexible



810-5701 Shown



811-0414 Shown

Stock No.	For Tip Style	For Tip Sizes	For Torch	Description
811-0414	9	00-10	550/750/800	10" (25.4cm) Flexible
810-5701	9			8" (20.3cm) Dual Flexible



811-0992 Shown

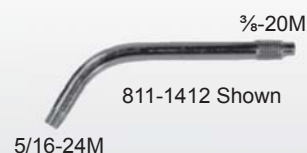


811-0991 Shown



811-0853 Shown

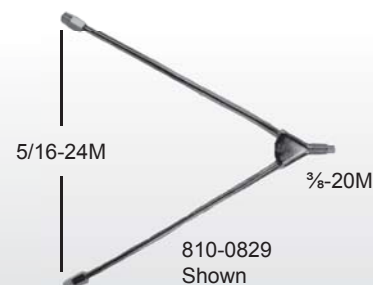
Stock No.	For Tip Style	For Tip Sizes	For Torch	Description
811-0992	HD	1-5	800	42" (106.7cm) Rigid ½-20M
811-0991	757	12-18		24" (61.0cm) Rigid
811-0853				18" (45.7cm) Rigid



811-1412 Shown



811-1411 Shown



810-0829 Shown

Stock No.	For Tip Style	For Tip Sizes	For Torch	Description
810-0829	759	7-10	550/750/800	8" (20.3cm) Dual Flexible
811-1411				9" (22.9cm) Flexible
811-1412				4" (10.2cm) Rigid

1/4-32M 7/16-20M



811-0434 Shown

Stock No.	For Tip Style	For Tip Sizes	For Torch	Mixer	Description
811-0434	9	00-10	750/800	810-1700	10" (25.4cm) Flexible

Accessories

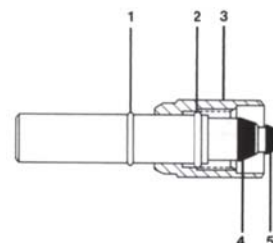
Mixers



Jet Mixers

Use w/ Torch	Tip Range	Stock No.	Internal Thread
550	1-10	810-0781	3/8"-20
750	00-5	810-0780	3/8"-20
	0-10	810-0781	3/8"-20
	0-10	810-1700	7/16"-20
800	00-5	811-1800	3/8"-20
	0-10	811-0890	3/8"-20
	11-13	811-0891	3/8"-20
	Heating	811-0899 (Jet Mixer)	1/2"-20

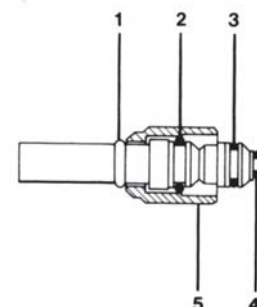
Item	Description	810-7650 thru 810-7655	810-0780, 810-0781 & 810-1700	811-1800 thru 811-0890, 811-0891, 811-0881	811-0899
1	Retainer Nut	810-2011	810-2010	810-2011	None
2	Ring, Lock	None	810-2013	810-2005	None
3	Nut, Tip	831-6530	831-8290	831-2891	831-2891
4	Ring, Seal LG	831-6533	810-0410	811-0806	811-0896
5	Ring, Seal SM	831-6535	810-0411	811-0897	811-0897
Set of 12 Rings (6) LG & (6) SM)		None	810-0450	811-1132	811-1132



Heating Mixers

Use w/ Torch	Tip Range	Stock No.	Internal Thread
350/450/474/475	000-4	810-9199	1/4"-32
	5-6	810-9201*	

Item	Description	Stock No.
1	Retainer Nut	831-5723
2	"O" Ring LG	831-4075
3	"O" Ring MED	831-3280
4	"O" Ring SM	831-3281
5	Nut, Tip	810-0078



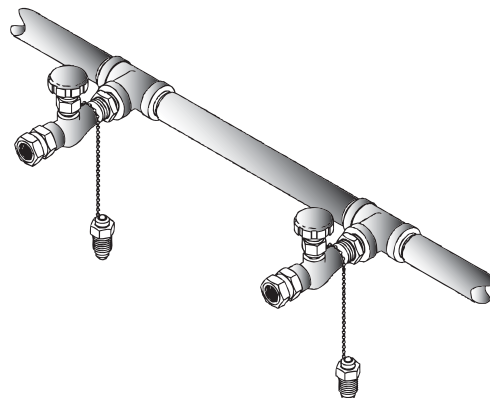


801-0257 Shown

Station Outlet Valves

Used in low pressure distribution systems to insure line pressure is maintained. These valves have 1/4" NPT male inlets for universal mounting. They have high flow capacity, up to 200 CFH Argon at 30 PSIG.

Plug and Chain assembly is a separate option.



Gas Service	Service Stock No.	Inlet	Outlet	Max Rating (PSI)	Plug and Chain (To Cap Valve)
Oxygen	801-0257	1/4" NPT Ext.	9/16"-18 RH Ext.	250	801-0265
Fuel Gas	801-0258		9/16"-18 LH Ext.		801-0266
Inert Gas	801-0259		5/8"-18 RH Int.		801-0267
General	801-0379		1/4" NPT Int.		--



Flow Adapters

Used for pipeline and fixed-pressure regulators, these flow Adapters eliminate the need for flowmeters. The 1/4" NPT male inlets enable them to be used with station valves or in regulator outlets. Flow Adapters come in a wide range of orifice sizes assuring maximum adaptability of flows.

Orifice Size	Stock No.	Argon Flow* CFH	Helium Flow * CFH	CO ₂ Flow* CFH	AG-75** Flow* CFH	Nitrogen Flow* CFH
0.010	830-1977	4	12	3.5	6.6	4.5
0.014	830-1978	6.3	20	6	11	7.6
0.016	830-1979	8	25	7.5	14	9.5
0.018	830-1971	10	31.5	9.5	17.5	12
0.02	830-1984	11.4	36	10.5	20	13.5
0.021	830-1972	15	47.5	14.3	26	18
0.025	830-1973	20	63.2	19	35	24
0.028	830-1985	22.5	72	21	40	27
0.031	830-1974	30	95	28	52.5	36
0.035	830-1975	40	126.5	38	60	47.5
0.04	830-1976	50	158	47.5	88	60

* Pressure compensated at 30 PSI

Accessories

Gauges



Gauges

Size	Range (psi unless noted otherwise)	Calibration Increments (psi)	Stock No.
1 1/2" Diameter Gauges, 1/8" NPT	0-60	2	841-0223
	0-200	5	841-0124
	0-400	10	841-0125
	0-2000	100	841-0126
	0-4000	250	841-0127
	0-4000 (chrome-plated)	250	841-0132
	0-200 CFH	5	841-0158
	0-375 (back mount)	--	841-0193
	0-3000	--	841-0207
	0-60 (chrome-plated)	2	841-0223
	0-400	10	841-0224
	0-1500	25	841-0098
2" Diameter Gauges, 1/4" NPT (steel case chrome-plated)	0-100	5	841-0210
	0-4000	125	841-0218
	0-200	2.5	841-0219
	0-60	2	841-0220
	0-30 (red line)	1	841-0221
	0-400	5	841-0222
	20-60 CFH (CO ₂)	--	841-4437
	20-60 CFH (Ar)	--	841-4438
	0-6000 (chrome-plated)	250	841-6001
2" Diameter Gauges, 1/4" NPT (brass case)	0-400	5	841-0056
	0-30 (red line)	0.5	841-0057
	0-60	2	841-0076
	0-4000	100	841-0093
	0-200	5	841-0134
2 1/2" Diameter Gauges 1/4" NPT (brass case)	0-30 (red line)	0.5	841-0003
	0-50	1	841-0004
	0-200	5	841-0005
	0-400	5	841-0007
	0-100	2	841-0014
	0-60	2	841-0077
	0-4000	100	841-0102
	0-30	0.5	841-0225
	0-6000	100	841-6000



8400/9400 Hard Hat Regulator Guard

The Hard Hat Regulator Guard protects the 8400/9400 Series regulator and its gauges from possible damage when installed in a hazardous location.

Order stock number 830-3120



Gauge Guards for 5500 & 5600 Series Regulators

Molded specifically to fit the 5500 and 5600 Series. They come in red and green, and protect the regulator and gauges when located in hazardous locations.

Stock No.	Color
830-7761	Green
830-7762	Red
830-6100	Pair (1-Red, 1 Green)



Forged Universal Wrench

Designed to fit sizes for most welding applications, this universal wrench has close tolerance openings to prevent damage to brass nuts, and a forged acetylene key.

Order stock number 809-0028



Note: CONCOA Welding and Cutting Hoses meet OSHA Standards and RMA-CGA Specifications. Cut lengths of CONCOA Twin Hose with fittings are also available individually and attractively packaged.

CONCOA Twin Hoses - Grade RM (Acetylene Only)

CONCOA Twin in two lines of high quality, cord-reinforced hose, molded side by side into a single, light and flexible unit. It comes in 3/16", 1/4", 5/16" and 3/8" sizes. Meets RMA-CGA specifications, Type VD, Grade RM. Neoprene® cover, rubber liner.

Size	Connection	Length	Stock No.
3/16"	B&B	25'	908-0365
1/4"			908-0425

CONCOA Twin Hoses - Grade R (Acetylene Only)

A less expensive hose offered in the most popular diameter and lengths, with B&B fittings. Meets RMA-CGA specifications, Type VD, Grade R, Rubber cover, rubber liner.

Size	Connection	Length	Stock No.
3/16"	A&A/B&B	12.5'	908-1302
			908-1362
1/4"	B&B	25'	908-1425

CONCOA Single Line

CONCOA Single Line is a reinforced hose which will give long service at low costs. Meets RMA-CGA specifications. Type S, Grade R, rubber cover, rubber liner. Type S, Grade T Neoprene® cover, neoprene liner.

Size	Length	Description	Stock No.
3/16"	25'	Red Hose A&A Connections - Grade T	908-0335
3/16"	12.5'	Red Hose A&A	908-0212

Accessories

Fluxes and Miscellaneous Supplies



Fluxes

Description	Unit Pkg.	Std. Pkg.	Stock No.
Aircasil Flux-White No. 12	12 oz. Squeeze Bottle	12	904-1212
	½ lb. Jar	48	904-1250
	1 lb. Jar	24	904-1201
	5 lb. Jar	6	904-1205
	40 lb. Pail	1	904-1240
Aircasil Flux-White No. 18	1 lb. Jar	24	904-1801
	5 lb. Jar	6	904-1805
	40 lb. Pail	1	904-1840
	65 lb. Pail	1	904-1865
Aircasil Flux-Black No. 18	1 lb. Jar	24	904-1401
	5 lb. Jar	6	904-1405
Welding and Brazing Fluxes Atlas No. 158	1 lb. Can	24	904-0501
	5 lb. Can	6	904-0505
	25 lb. Can	1	904-0525
Marvel	1 lb. Can	24	904-0601
	5 lb. Can	6	904-0605
	40 lb. Drum	1	904-0699



Tip Cleaners

Stock No.	Description
832-4597	Standard length 12 cleaners for drill #77 to 49 inclusive.



Tip Cleaning Brass Bristle Brush

This brass bristle brush is recommended for the cleaning of the insert splines of all two-piece tips.

Stock No. 833 4906



Sparklighters

Stock No.	Description
915-0200	Sparklighter



801-6592 Shown

Station Drops

Station drops come completely assembled, ready to install out of the box. The drop includes the 6590 regulator. In addition, station drops include a high flow capacity, 200 PSIG maximum operating, and pressure in-line station valve.

Station valves have built in non-return valves to meet NFPA 51 and OSHA requirements.

Stock No.	Gas Service	Type Regulator	Equipment	Outlet Connection
801-6596	Oxygen	Regulator	806-6596	"B" 9/16"-18 RH Ext.
801-6592	Acetylene	Regulator	806-6592	"B" 9/16"-18 LH Ext.
801-6599	Fuel Gases (Propylene, Propane, Natural Gas)	Regulator	806-6599	"B" 9/16"-18 LH Ext.
801-6595	Inerts (Nitrogen, Helium, Argon)	Regulator	806-6595	"B" 5/8"-18 LH Ext.
801-6591		Regulator/Flowmeter	806-6591	
801-6597		Regulator/Flowmeter	806-6597	
801-6590		Regulator/Gas Saver	806-6590	
801-6594		Regulator Dual Flowmeter	806-6594	
801-0720	Ar/CO ₂	Flowmeter	805-0720	"B" 5/8"-18 LH Ext.
801-0721	Ar/He	Flowmeter	805-0721	
801-0722	Ar/CO ₂	Dual Flowmeter	805-0725	
801-0723	Ar/He	Dual Flowmeter	805-0728	



Station Valves

CONCOA station valves eliminate the need for a separate check valve by adding a non-return feature to the typical shut-off valve. With a high flow capacity and a 200 PSIG* maximum operating pressure, these valves are suitable for heavy-duty pipeline use. *Station valves have built in non-return valves to meet NFPA 51 and OSHA requirements.*

Stock No.	Gas Service	Inlet	Outlet	Plug and Chain Assembly
801-0034	Oil-Free Inerts	1/2" MPT	"C" 7/8-14 RH (CGA 034)	801-0734
801-0233	Oxygen		"C" 7/8-14 RH (CGA 024)	801-0237
801-0601	Fuel Gases		"C" 7/8-14 RH (CGA 025)	801-0236
801-8001	General Purpose		1/2" FPT	--



Half-Inch Valves

CONCOA quarter-turn valves are compact designed with orifices precisely sized to maximize flow. The single piece brass stem inside the one-piece brass body eliminates backlash to improve alignment of ball and orifices. These valves do not require system pressure to make a seal, and are easily cleaned or purged. Bi-directional flow capable, its handle indicates valve position.

Stock No.	Description
801-7000	Quarter-Turn Valve (1/2" x 1/2" inlet and outlet), 2000 PSI Max Pressure
529-0098	1/2" High-Flow Brass Valve 4500 PSI Max Pressure

Accessories

Oxygen/Fuel Flashback Arrestors



CONCOA
MAXFLOW
801-7015



801-7003



801-7005



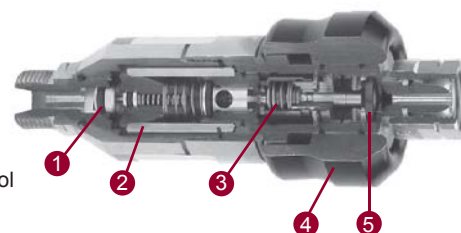
CONCOA
AUTOSTOP
801-7001

Flashback Arrestors can be easily installed on the outlet fitting of most regulators, gas supply points or inline. They help meet ANSI Z49.1:2005, OSHA, and NFPA safety requirements and help protect against the most common causes of accidents such as reverse flow, flashback, and hose burn backs. Each CONCOA flashback arrestor is 100% tested with actual flashbacks and have built in 100 micron inlet filters, reverse flow check valves (non-return valves), flame barriers, and thermal cut off valves.

Flashback Arrestor Materials and Specifications Features

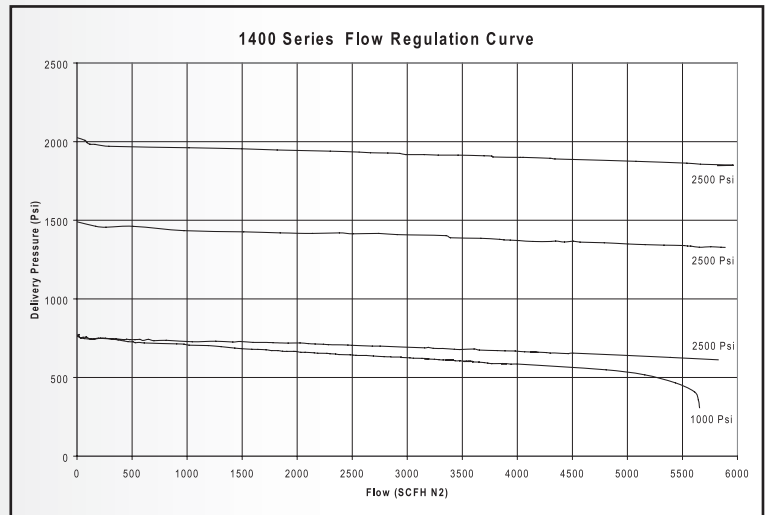
- UL Listed
Complies with ISO 5175, BAM/DIN 730, BS 6158
- Thermal Shut Off
Brass/Temperature Sensitive Stainless Silver Solder
- Valve Spring
316 stainless steel
- Maximum Operating Pressure
143 PSIG (10 BAR)

1. Thermal Shut Off
2. Flame Barrier
3. Check Valve
4. Re-settable Pressure Control
5. Inlet Filter

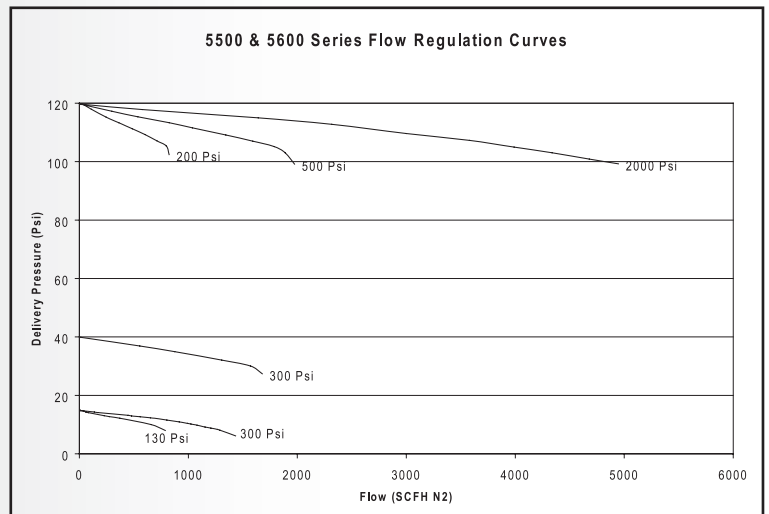


Stock No.	Service	Regulator End	Hose End	Max PSIG	Max SCFH	Weight
801-7004	Oxygen	9/16"-18 RH Female	9/16"-18 RH Male	143	2073 SCFH (At 143 PSIG)	5.25 oz. (.15 kg)
801-7003	Acetylene Hydrogen LPG	9/16"-18 LH Female	9/16"-18 LH Male	15 50 71.5	290 SCFH (At 15 PSIG) 3005 SCFH (At 50 PSIG) 907 SCFH (At 71.5 PSIG)	5.25 oz. (.15 kg)
801-7002	Oxygen	9/16"-18 RH Female	9/16"-18 RH Male	143	2073 SCFH (At 143 PSIG)	1.1 lbs. (.5 kg)
801-7001	Acetylene Hydrogen LPG	9/16"-18 LH Female	9/16"-18 LH Male	15 50 71.5	505 SCFH (At 15 PSIG) 5052 SCFH (At 50 PSIG) 1525 SCFH (At 71.5 PSIG)	1.1 lbs. (.5 kg)
801-7006	Oxygen	9/16"-18 RH Female	9/16"-18 RH Male	143	3612 SCFH (At 143 PSIG)	12 oz. (.34 kg)
801-7005	Acetylene Hydrogen LPG	9/16"-18 LH Female	9/16"-18 LH Male	15 50 71.5	505 SCFH (At 15 PSIG) 5052 SCFH (At 50 PSIG) 1525 SCFH (At 71.5 PSIG)	12 oz. (.34 kg)
801-7012	Oxygen	3/8" NPT Female	3/8" NPT Female	143	3612 SCFH (At 143 PSIG)	1.2 lbs. (.54 kg)
801-7011	Acetylene Hydrogen LPG	3/8" NPT Female	3/8" NPT Female	15 50 71.5	505 SCFH (At 15 PSIG) 5052 SCFH (At 50 PSIG) 1525 SCFH (At 71.5 PSIG)	1.2 lbs. (.54 kg)
801-7016	Oxygen	1" NPT Female	1" NPT Female	143	5250 SCFH (at 143 PSIG)	7.8 lbs. (3.5 kg)
801-7015	Acetylene Hydrogen LPG	1" NPT Female	1" NPT Female	15 57 71.5	1370 SCFH (At 15 PSIG) 15390 SCFH (At 57 PSIG) 4075 SCFH (At 71.5 PSIG)	7.8 lbs. (3.5 kg)

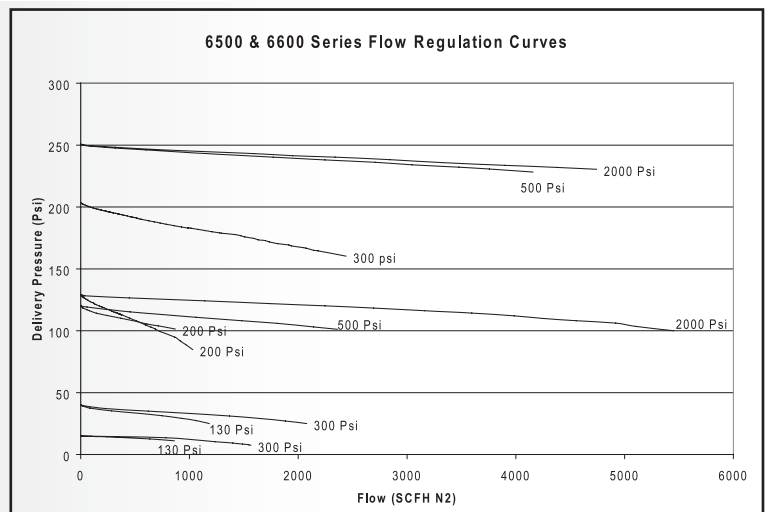
1400 Series



5500-5600 Series



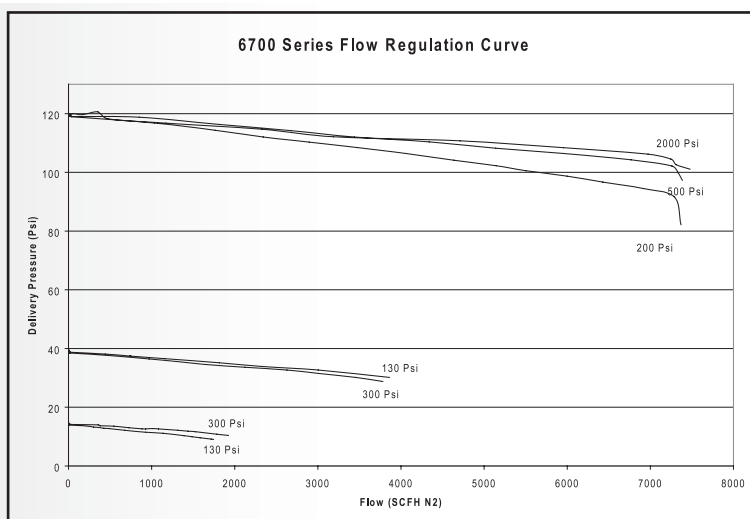
6500-6600 Series



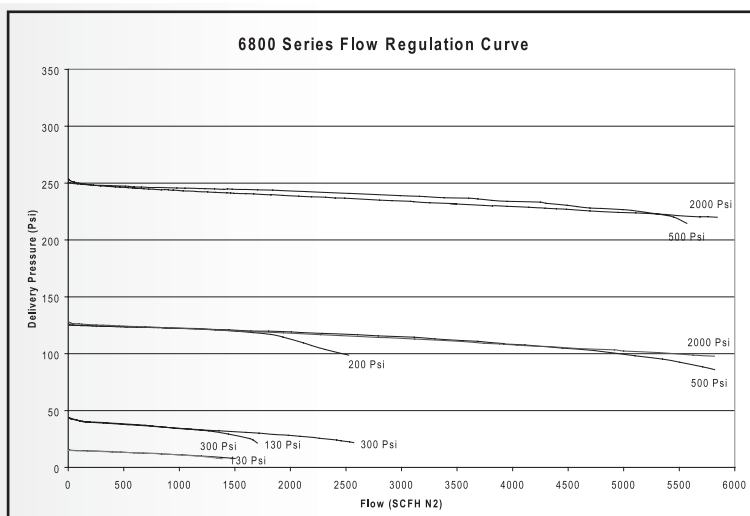
Flowcurve Data



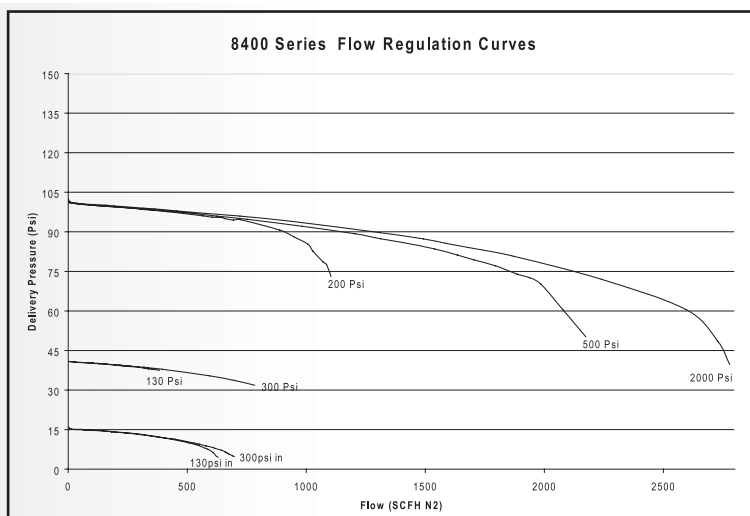
6700 Series



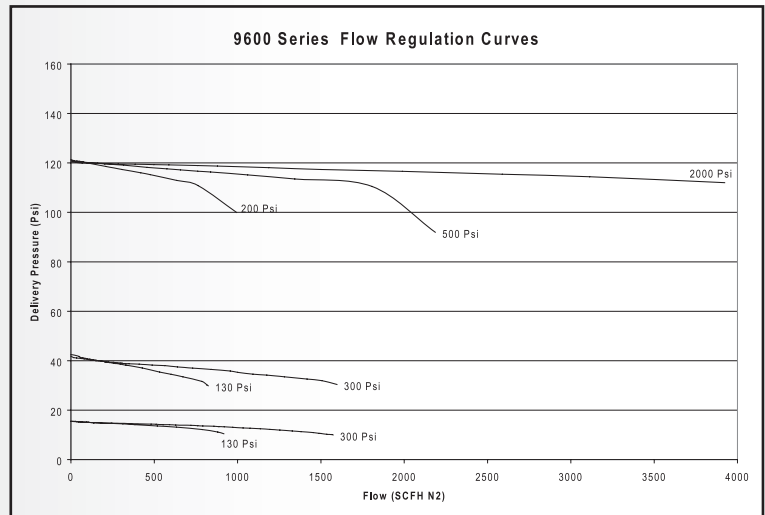
6800 Series



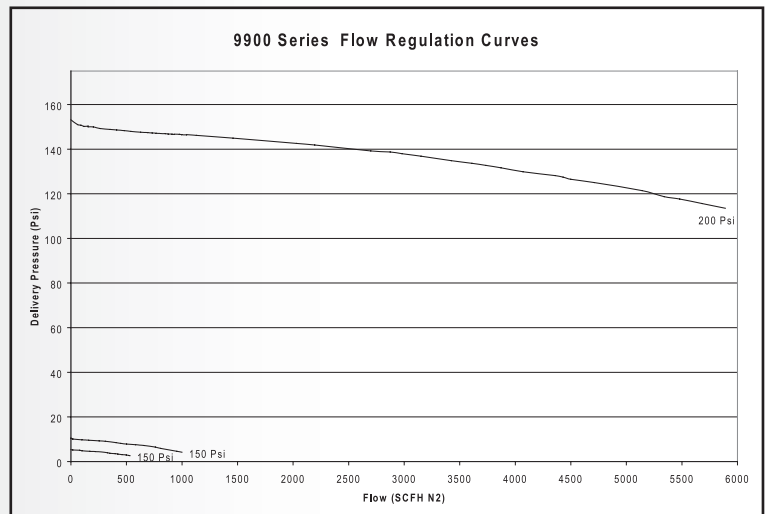
8400 Series



9600 Series



9900 Series



Pipe Size - Inches

Pressure Drop per 100 Feet of Pipe

10% of Applied Pressure

5% of Applied Pressure

Pipe Size - Inches

1/8, 1/4, 3/8, 1/2

3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3

Derived Units = Pressure Drop per 100 Feet of Pipe (CFH)

Applied Pressure psig	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
5	30	72	162	294	396	780	1,620	2,400	4,800	8,100	14,400
10	48	102	234	462	660	1,260	2,640	3,840	7,500	12,000	22,200
20	78	180	396	780	1,110	2,100	4,500	6,600	12,900	21,000	36,000
40	150	330	720	1,380	2,040	3,720	8,100	12,000	23,100	38,400	66,000
60	210	480	1,080	2,040	3,000	5,580	11,700	17,400	33,600	54,000	96,000
80	282	630	1,380	2,640	3,900	7,200	15,300	23,400	43,200	72,000	126,000
100	348	780	1,740	3,240	4,800	9,000	18,900	28,200	54,000	87,000	156,000
150	516	1,200	2,460	4,800	6,900	13,200	27,600	40,800	81,000	132,000	234,000
200	690	1,560	3,480	6,480	9,300	17,400	37,200	54,600	105,000	168,000	300,000
250	870	1,980	4,380	8,100	12,000	22,200	46,200	69,000	132,000	210,000	3,660,000