

TIMSCO

PRODUCTS AND SERVICES GUIDE

GAS EQUIPMENT



Gas
Equipment

Welding &
Cutting
Equipment

Welding
Support

Filler Metals

MRO Supplies

Safety

Index



To request a quote or to place an order, please call

214-544-6790

Table of Contents

Gas Equipment

Gas Equipment	1-27
Cutting and Welding Outfits	2-5
Torch Kits	6-7
Regulators	8-10
Pressure Gauges	11
Flowgauges, Flowmeters and Kits	12-13
Torches, Handles and Cutting Attachments	14-15
Cutting Tips	16-17
Welding and Brazing Tips	18
Heating Nozzles and Tips	19
Welding Hose, Adapters and Fittings	20-24
Flashback Arrestors and Quick Connects	25
Gas Equipment Accessories	26
Propylene Solutions Information	27

Welding & Cutting Equipment

Welding & Cutting Equipment.	28-31
Machines and Accessories	28-29
Plasma Torches and Consumables	30-31

Welding Support

Welding Support	32-66
MIG Guns, Parts and Consumables	32-41
Tungsten Electrodes, Totes and Grinders	42-44
TIG Torches, Parts and Consumables	45-51
Carbon Arc Gouging Torches & Electrodes	52-53
Manual Accessories	54-56
Welding Cable and Accessories	57
Welding Chemicals	58-59
Soapstone, Pocket Scribes, Markers and Paint Pens	60-61
Welding Tools	62-66

Filler Metals

Filler Metals	67-83
Stick Electrodes (SMAW)	68-72
TIG Rods (GTAW)	73-74
MIG Wire (GMAW)	75-77, 79
Technical Information	78
Tubular Flux Cored Welding Wire (FCAW)	80-83

MRO Supplies

MRO Supplies	84-107
Cut-Off Machines and Wheels	84
Saw Blades and Drill Bits	85
Cutting Equipment and Blades	86
Hole Saws and Pilot Drills	87
Mag Drills and Accessories	88-89
Angle Grinders	90-91
Power Cords	92
Depressed Center Wheels	93,96
Cut-Off Wheels	94-95
Fibre Discs	97
Coated Abrasives	98
Flap Discs	99-101
Power Brushes	102-103
Hand Brushes	104
Hand Tools	105-107

Safety	108-151
Eyewear and Lens Cleaning Products	108
Head Protection	109
Welding Goggles, Helmets and Accessories	110-113
Faceshields and Headgear	114-115
Hearing Protection	116-117
Respiratory Protection	118-121
Instrumentation	122-123
Fall Protection	124-127
Hand Protection	128-136
Knee Pads and Supports	137
Disposable Clothing	138
Leather Clothing	139
FR/Arc Flash Clothing	140-141
High Visibility Vests	142
Welding Caps, Bandanas and Sweatbands	143
Protective Workwear	144
First Aid Kits and Products	145-146
Skin Care Products	147
Eyewash Products	148
Facility Supplies	149-151

Safety

Product Index	152-154
MFG Index	155

Index



Fuel Gases
Burning Ratios & Velocities

Fuel Gas	Ratio O ₂ -Fuel Gas	Velocity in Feet Per Second	BTU	Flame Temp
Acetylene	1.1-1	22.7	1470	5589°F
Natural Gas	3.1-1	15.2	1000	4579°F
Propane	2.9-1	12.2	2498	4579°F
Propylene	2.6-1	15.0	2371	5295°F

Despite countless attempts to replace oxy-fuel processes over the years, flame cutting, heating and brazing are still key manufacturing processes used throughout the world. Perhaps in years to come, oxy-fuel processes will be replaced by more advanced technology. Until that time, we believe current technology can be further optimized by the proper combination of fuel gas and equipment. The key to performance and efficiency is to select the proper fuel gas and equipment. Take a look at the following pages for a comprehensive selection of quality equipment.

Cutting Tips

Tips are designed to work in a narrow range of steel thicknesses

Metal Thickness	Tip Size	Cutting Oxygen (PSIG)	Pre-Heat Oxygen (PSIG)	Acetylene (PSIG)	Speed (LPM)	Kerf Width (Inches)
1/8"	000	20/25	3/5	3/5	28/32	.04
1/4"	00	20/25	3/5	3/5	27/30	.05
3/8"	0	25/30	3/5	3/5	24/28	.06
1/2"	0	30/35	3/6	3/5	20/24	.06
3/4"	1	30/35	4/7	3/5	17/21	.07
1"	2	35/40	4/9	3/6	15/19	.09
1 1/2"	2	40/45	4/12	3/7	13/17	.09
2"	3	40/45	5/14	4/9	12/15	.11
2 1/2"	3	45/50	5/16	4/10	10/13	.11
3"	4	40/50	6/17	5/10	9/12	.12
4"	5	45/55	7/18	5/12	8/11	.15
5"	5	50/55	7/20	5/13	7/9	.15
6"	6	45/55	10/22	7/13	6/8	.18
8"	6	45/55	10/25	7/14	5/6	.19
10"	7	45/55	15/30	10/15	4/5	.34
12"	8	45/55	20/35	10/15	3/5	.41

HELPFUL HINT

Use correct tip size for cleaner, more efficient cuts and maximum tip life.



Cutting – Oxy-fuel cutting severs or removes metal by the chemical reaction of oxygen with the metal at elevated temperatures. The necessary temperature is maintained by a flame of fuel gas burning in oxygen. The actual cutting operation is performed by the oxygen stream. The oxygen-fuel gas flame is the mechanism used to raise the base metal to an acceptable preheat temperature range and to maintain the cutting operation.



Welding – The oxy-fuel welding process mixes acetylene gas with oxygen to provide a flame temperature hot enough to melt steel. Molten steel and filler metal, if used, intermix in a common molten pool (melted steel). Acetylene gas is the only fuel gas that should be used for welding, due to its burning characteristics.



Heating – Oxy-fuel heating results from the use of a multi-flame or heating nozzle which increases the burning rate of the oxygen and fuel gas. This process rapidly creates a tremendous amount of heat and is used in a variety of applications including priming, post-heating, bending, straightening and annealing steel.



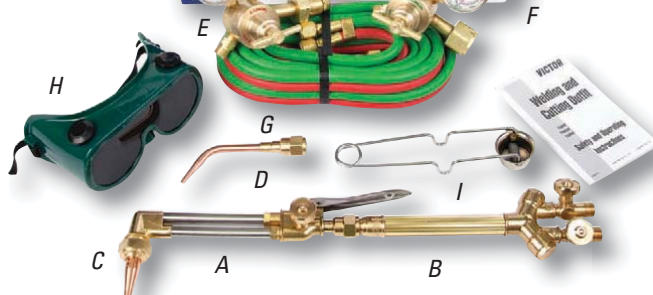
Brazing – Oxy-fuel brazing joins metal using filler metals at temperatures above 840°F but below the melting point of the base metals. The filler metal is distributed through the joint by capillary action. A reducing (or carbonizing) flame is best suited for brazing applications and is characterized by a small, blue inner cone with a soft white, feathered inner cone also present.

- Gas Equipment
- Cutting Equipment
- Welding & Welding Support
- Filler Metals
- MRO Supplies
- Safety
- Index

Cutting and Welding Outfits

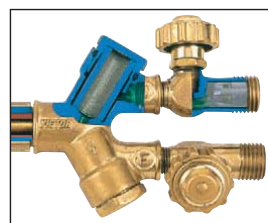
RADNOR®

Radnor® Victor® Style Light-Duty



Victor® style light-duty outfits feature quality engineered components designed for small shops and hobbyists. With features like built-in flashback arrestors, reverse flow check valves and easy-to-read 1½" gauges on regulators with "T" bar adjusting knobs, set-up and ease of use are unmatched. Applicable product is listed with a recognized independent testing agency. 3 year warranty.

Part Number	Description	CGA	Fuel Gas
RAD64003000	Model 150-510DLX Victor® Style Deluxe Light-Duty Cutting and Welding Outfit	510	Acetylene
RAD64003002	Model 150-300DLX Victor® Style Deluxe Light-Duty Cutting and Welding Outfit	300	Acetylene



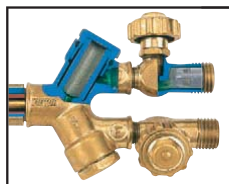
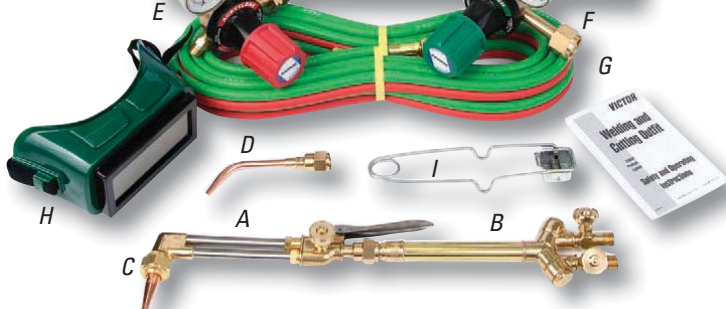
Built-in flashback arrestors and reverse flow check valves.

Comes Complete With

Description	Radnor® Replacement Number
A CA270V Cutting Attachment	RAD64003050
B WH270FCV Torch Handle	RAD64003051
C 0-3-101 Cutting Tip	RAD64003623
D 0-W-1 Welding Nozzle	—
E 150-60-540 Oxygen Regulator	RAD64003029
F 150-15-300 Acetylene Regulator	—
F 150-15-510 Acetylene Regulator	RAD64003028
G ¾" x 12½' RM Grade Twin Hose	RAD64003304
H Goggles	RAD64005090
I Single Flint Striker	RAD64003411

NOTE: Outfits are rated at maximum capacity. Use optional tips to achieve desired results.

Radnor® Victor® Style Medium-Duty



Built-in flashback arrestors and reverse flow check valves.

RAD64003004 and RAD64003006 Come Complete With

Description	Radnor® Replacement Number
A CA270V Cutting Attachment	RAD64003050
B WH270FCV Torch Handle	RAD64003051
C 0-3-101 Cutting Tip	RAD64003623
D 0-W-1 Welding Nozzle	—
E 250-80-540 Oxygen Regulator	RAD64003031
F 250-15-300 Acetylene Regulator	RAD64003032
F 250-15-510 Acetylene Regulator	RAD64003030
G ¾" x 20' RM Grade Twin Hose	RAD64003306*
H Goggles	RAD64005090
I Single Flint Striker	RAD64003411

*Radnor® replacement is a 25 ft. twin hose.

RAD64003858 Comes With

Description	Radnor® Replacement Number
C 1-3-GPP Cutting Tip	RAD64003709
E 250-80-540 Oxygen Regulator	RAD64003031
F 250-40-510LP MD Duty Alternative Fuel Regulator	RAD64003863

NOTE: Outfits are rated at maximum capacity. Use optional tips to achieve desired results.

Cuts to 5" and Welds to 1¼"

Victor® Style medium-duty outfits feature quality engineered components designed to cover the full range of welding, cutting and heating needs. With features like built-in flashback arrestors, reverse flow check valves and easy-to-read 2" gauges on regulators, set-up and ease of use are unmatched. Applicable product is listed with a recognized independent testing agency. 3 year warranty.

Part Number	Description	CGA	Fuel Gas
RAD64003004	Model 250-510DLX Victor® Style Deluxe Medium-Duty Cutting and Welding Outfit	510	Acetylene
RAD64003006	Model 250-300DLX Victor® Style Deluxe Medium-Duty Cutting and Welding Outfit	300	Acetylene
RAD64003858	Model 250-510LP DLX Victor® Style Deluxe Alternate Fuel Medium-Duty Cutting and Welding Outfit	510	Alternate

Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

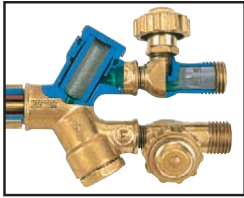
MRO Supplies

Safety

Index

RADNOR

Radnor®
Victor® Style
Heavy-Duty



Built-in flashback arrestors and reverse flow check valves.



Cuts to 6" and Welds to 3"

Victor® style heavy-duty outfits feature quality engineered components designed for the rigors of tough job sites. With features like built-in flashback arrestors, reverse flow check valves and easy-to-read 2" gauges on regulators, set-up and ease of use are unmatched. Applicable product is listed with a recognized independent testing agency. 3 year warranty.

Part Number	Description	CGA	Fuel Gas
RAD64003008	Model 350-510DLX Victor® Style Deluxe Heavy-Duty Cutting and Welding Outfit	510	Acetylene
RAD64003010	Model 350-300DLX Victor® Style Deluxe Heavy-Duty Cutting and Welding Outfit	300	Acetylene
RAD64003859	Model 350-510LP DLX Victor® Style Deluxe Alternate Fuel Heavy-Duty Cutting and Welding Outfit	510	Alternative

Radnor® Harris® Style Medium-Duty



Radnor® Harris® Style Steelworker® Classic Cuts to 5" and Welds to 1/2"

Choose the Radnor® by Harris® Oxy-Acetylene Steelworker for your repair, maintenance, and metal fabrication needs. Radnor® by Harris® Steelworker® outfits consist of the same high quality components found in Harris® branded product. Field proven components, replaceable check valves and an ultra-durable seat design ensure years of service and cover a full range of cutting, heating and welding applications. Models are available in either Acetylene or Alternate Fuel versions for optimal performance and maximum efficiency. 3 Year Warranty on Regulators and Torches.

Part Number	Description	CGA	Fuel Gas
RAD64003016	Model 8525-510DLX Deluxe Steelworker® Classic Medium-Duty Cutting and Welding Outfit	510	Acetylene
RAD64003018	Model 8525-300DLX Deluxe Steelworker® Classic Medium-Duty Cutting and Welding Outfit	300	Acetylene
RAD64003025*	Model 8525F-510 Deluxe Combo Classic Alternate Fuel Cutting Outfit	510	Propane, Propylene

*Fuel gas outfit is rated as medium-duty.

Cutting and Welding Outfits RAD64003008 and RAD64003010 Come Complete With

Description	Radnor® Replacement Number
A CA370V Cutting Attachment	RAD64003052
B WH370FCV Torch Handle	RAD64003053
C 1-1-101 Cutting Tip	RAD64003607
D 2-W Welding Nozzle	—
E 350-125-540 Oxygen Regulator	RAD64003034
F 350-15-300 Acetylene Regulator	RAD64003035
F 350-15-510 Acetylene Regulator	RAD64003033
G 1/4" x 25' RM Grade Twin Hose	RAD64003310
H Goggles	RAD64005090
I Single Flint Striker	RAD64003411

RAD64003859 Comes With

Description	Radnor® Replacement Number
C 1-GPP Cutting Tip	RAD64003706
E 350-125-540 Oxygen Regulator	RAD64003034
F 350-80-510LP HVY Duty Alternative Fuel Regulator	RAD64003065

NOTE: Outfits are rated at maximum capacity. Use optional tips to achieve desired results.

Comes Complete With

Description	Radnor® Replacement Number
A 72-3 Cutting Attachment	RAD64003057
B 85 Torch Handle	RAD64003055
C 6290-1AC Cutting Tip	RAD64003238
D 23A90-5 Welding Tip D-85 Mixer	—
E 25-100C-540 Oxygen Regulator	RAD64003061
F 25-15C-300 Acetylene Regulator	RAD64003058
F 25-15C-510 Acetylene Regulator	RAD64003059
G 1/4" x 20' "RM" Grade Twin Hose	RAD64003310*
H Goggles	RAD64005090
I Single Flint Striker	RAD64003411

*Radnor® replacement is a 25 ft. twin hose.

Alternate Fuel Combo Differences

Description	Radnor® Replacement Number
A 39-3F Cutting Attachment	—
C 6290-1NXP Cutting Tip	RAD64003274
D Welding Tip and Mixer Not Included	—
F 425-15C-510P Fuel Regulator	—
G 1/4" x 20' "T" Grade Twin Hose	RAD64003340

NOTE: Outfits are rated at maximum capacity. Use optional tips to achieve desired results.

Gas
Equipment

Welding &
Cutting Equipment

Welding
Support

Filler Metals

MRO Supplies

Safety

Index

Cutting and Welding Outfits

RADNOR®

Radnor® Harris® Style Heavy-Duty



Pipeliner® outfits are known for durability and performance in harsh conditions. Field proven components, replaceable check valves and an ultra-durable seat design ensure years of service and a full range of cutting, heating and welding applications. Models are available in either Acetylene or Alternate Fuel versions for optimal performance and maximum efficiency. 3 year warranty on regulators and torches.

Radnor® Harris® Style Pipeliner® Cuts to 6" and Welds to 1"

- Solid forged head
- Brazed triangular head
- Eaze-on cutting valve
- Protected torch union
- Alternate fuel outfit cuts to 5"

Part Number	Description	CGA	Fuel Gas
RAD64003020	Model 43425-510 Deluxe Pipeliner® Heavy-Duty Cutting and Welding Outfit	510	Acetylene
RAD64003021	Model 43425-300 Deluxe Pipeliner® Heavy-Duty Cutting and Welding Outfit	300	Acetylene
RAD64003024*	Model 43425F-510 Deluxe Pipeliner® Alternate Fuel Cutting Outfit	510	Propane, Propylene

*Fuel gas outfit is rated as medium-duty.

Comes Complete With

Description	Radnor® Replacement Number
A 73-3 Cutting Attachment	RAD64003056
B 43-2 Torch Handle	RAD64003054
C 6290-1AC Cutting Tip	RAD64003238
D 23A90-5 Welding Tip E-43 Mixer	—
E 425-125-540 Oxygen Regulator	RAD64003893
F 425-15-300 Acetylene Regulator	RAD64003890
	425-15-510 Acetylene Regulator	RAD64003891
G 1/4" x 20' RM Grade Twin Hose	RAD64003310*
H Goggles	RAD64005090
I Single Flint Striker	RAD64003411

*Radnor® replacement is a 25 ft. twin hose.

Alternate Fuel Combo Differences

Description	Radnor® Replacement Number
A 43-3F Cutting Attachment	—
C 6290-1NXP Cutting Tip	RAD64003274
D Welding Tip and Mixer Not Included	—
F 425-15-510P Fuel Regulator	—
G 1/4" x 20' "T" Grade Twin Hose	RAD64003340

NOTE: Outfits are rated at maximum capacity. Use optional tips to achieve desired results.

SMIHTA-30510

SMIMTA-30510



American Classic - Cutting, Welding and Heating Toolbox Outfits

These premium outfits feature quality construction throughout and are built to provide reliability and extended service. Toolbox Outfits feature rugged, high impact plastic toolbox to safely transport oxy-fuel equipment. Outfits feature Smith's proven in-tip gas mixing technology and include torch mount flashback

arrestors for optimum safety and increases torch life. Torches are covered by Smith's Lifetime Warranty, the longest and strongest in the industry. The outfits feature rugged, highly accurate regulators. Regulators are backed by a 3 year limited warranty.

Smith Medium-Duty and Heavy-Duty Cutting Welding and Heating Outfits

- Conforms to ANSI/UL Std. 123, ETL or UL Listed

Part Number	Description	Cuts	Welds
SMIHTA-30510	HD Outfit - American Classic Toolbox	8"	1/2"
SMIMTA-30510	MD Outfit - American Classic Toolbox	6"	3/8"



TurboTorch®

TurboTorch® X-3B Acetylene Torch Kit

- Quick-disconnect couplings
- Color-coded O-rings for gas identification
- B tank connection

Part Number	Description
VIC0386-0335	X-3B Series Swirl Torch, Air/Acetylene



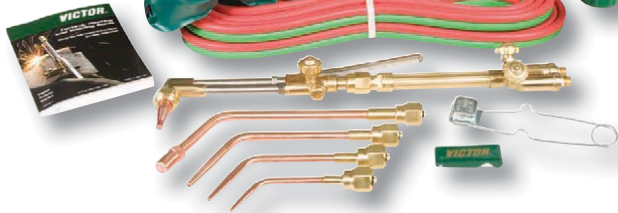
VIC0384-2036

VICTOR®

Journeyman®

This heavy-duty outfit cuts up to 3/4" (19.1 mm) or 8" (203.2 mm) with optional tips. It welds up to 1/2" (12.7 mm) or 3" (76.2 mm) with optional nozzles.

- ESS4 series regulators
- H 315FC torch handle with built-in flashback arrestors and check valves
- CA 2460 cutting attachment
- W welding nozzles, sizes: 1, 3, 5
- MFA heating nozzle, size 8
- T-grade hose 20' x 1/4" (6.1 m x 6.4 mm)
- Soft-sided shade 5 goggles
- 1-1-101 cutting tip
- Striker and tip cleaner



VIC0384-2041

Journeyman II®

This heavy-duty outfit cuts up to 3/4" (19.1 mm) or 8" (203.2 mm) with optional tips. It welds up to 1/8" (3.2 mm) or 3" (76.2 mm) with optional nozzles.

- ESS4 series regulators
- 315FC torch handle with built-in flashback arrestors and check valves
- CA 2460 cutting attachment
- W welding nozzle, size 2
- T-grade hose 20' x 1/4" (6.1 m x 6.4 mm)
- Soft-sided shade 5 goggles
- 1-1-101 cutting tip
- Striker and tip cleaner



Outfits include a 5 year warranty

All applicable product listed with an independent test agency

Part Number	Description	Torch Handle	Cutting Attachment	Welding Nozzle	Cutting Tip	Heating Nozzle	Oxygen Regulator	Fuel Gas Regulator
VIC0384-2035	Journeyman® - Edge™ Series	H 315FC	CA 2460	(W) 1,3,5	1-1-101	8-MFA	ESS4-125-540	ESS4-15-300
VIC0384-2036	Journeyman® - Edge™ Series	H 315FC	CA 2460	(W) 1,3,5	1-1-101	8-MFA	ESS4-125-540	ESS4-15-510
VIC0384-2040	Journeyman® II - Edge™ Series	315FC	CA 2460	(W) 1,3,5	1-1-101	—	ESS4-125-540	ESS4-15-300
VIC0384-2041	Journeyman® II - Edge™ Series	315FC	CA 2460	(W) 2	1-1-101	—	ESS4-125-540	ESS4-15-510
VIC0384-2043	Journeyman® II - Edge™ Series	315FC	CA 2460	—	1-GPP	8T55	ESS4-125-540	ESS4-125-510LP

Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

MRO Supplies

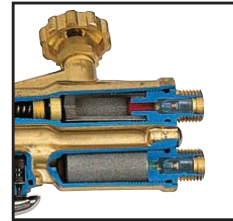
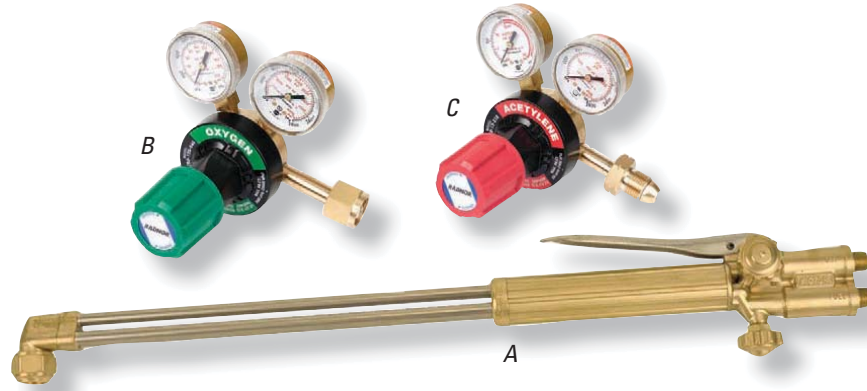
Safety

Index

Straight Cutting Torch Outfits

RADNOR®

Radnor® Victor® Style Straight Cutting Torch Outfit



Built-in flashback arrestors and reverse flow check valves.

Standard Comes Complete With

	Description	Radnor® Replacement Number
A	ST900FC Straight Torch	RAD64003855
B	350-125-540 Oxygen Regulator	RAD64003034
C	350-15-300 Acetylene Regulator	RAD64003035
	350-15-510 Acetylene Regulator	RAD64003033

Cuts to 5" with Accessories

Victor® style cutting outfits feature quality engineered components designed for the rigors to cover the full range of cutting needs. Outfits come complete with the Radnor® 900FC Straight Torch and 350 Series regulators. With features like built-in flashback arrestors, reverse-flow check valves and easy-to-read 2" gauges on regulators, set-up and ease of use are unmatched. Torch is 21" long with a 90° angled head. Applicable product is listed with a recognized independent testing agency. 3 year warranty.

RAD64003849 Comes With

	Description	Radnor® Replacement Number
C	350-40-510LP HVY Duty Alternative Fuel Regulator	RAD64003065

NOTE: Outfits are rated at maximum capacity. Use optional tips to achieve desired results.

Part Number	Description	CGA	Fuel Gas
RAD64003850	Model 350-510 ST900FC Victor® Style Cutting Outfit	510	Acetylene
RAD64003851	Model 350-300 ST900FC Victor® Style Cutting Outfit	300	Acetylene
RAD64003849	Model 350-510LP ST900FC Victor® Style Cutting Outfit	510	Alternate



Radnor® Harris® Style Straight Cutting Torch Outfit

Radnor® Harris® Style Cutter Pac® Cuts to 12"

Features Radnor® medium-duty Model 25 regulators and the Radnor® Model 62-5E straight cutting torch. Triangular stainless steel tube torch design ensures superior strength and added safety. UL Listed. 3 year warranty on regulators, 1 year warranty on torches.

Comes Complete With

	Description	Radnor® Replacement Number
A	62-5E Straight Torch	RAD64003856
B	25-100C-540 Oxygen Regulator	RAD64003061
C	25-15C-300 Acetylene Regulator	RAD64003058
	25-15C-510 Acetylene Regulator	RAD64003059

*Radnor® replacement is a 25 ft. twin hose.

NOTE: Outfits are rated at maximum capacity. Use optional tips to achieve desired results.

Part Number	Description	CGA	Fuel Gas
RAD64003852	Model 6225E-510 Harris® Style Cutting Outfit	510	Acetylene
RAD64003853	Model 6225E-300 Harris® Style Cutting Outfit	300	Acetylene



Western Enterprises Hotspotter

- Delivers 500,000 BTU
- No smoke, no fumes
- Burn weeds, repair asphalt, seal tar, peel paint, remove road markings, melt ice, and thaw pipes
- Durable 10' neoprene hose
- Accurate brass flow control shut-off valve
- Brass propane tank adaptor
- Spark ignitor
- Durable cast iron and steel nozzle
- 31" heavy-duty handle
- Meets NFPA 51 specifications
- Packaged in retail, self-service packaging
- 1 year warranty

Part Number	Description
WESWB-101	Hotspotter



Gas Equipment
Welding & Cutting Equipment
Welding Support
Filler Metals
MRO Supplies
Safety
Index

RADNOR

Radnor® Victor® Style Tote®



Ideal cutting, welding and brazing outfit for plumbing, HVAC and other light-duty, portable applications. Unique carry tote offers in-line balanced design for carrying ease. As supplied, cuts to 1/2", welds 1/4"; with larger tips and cylinders, cuts to 4" and welds to 1 1/4".

Features

- Waterproof storage compartment for small items
- Dedicated storage for brazing/soldering alloys
- Built-in replaceable reverse flow check valves and flashback arrestors
- 3/16" x 12 1/2' Grade RM hose
- Applicable product is listed with a recognized independent testing agency
- 3 year warranty

Comes Complete With

- CA25 Cutting attachment
- 100 FC Torch handle
- 0-3-101 Cutting tip
- 2-W-1 Welding tip
- 150CR-540 Oxygen regulator
- 160AR-MC acetylene regulator
- Hose
- Goggles
- Striker

Part Number	Description	CGA	Fuel Gas
RAD64003012	Victor® Style Deluxe Light-Duty Cutting, Welding and Brazing Outfit Including Cylinder Carrier (Cylinders Not Included)	200	Acetylene
RAD64003013	Victor® Style Deluxe Light-Duty Cutting, Welding and Brazing Outfit Including Cylinder Carrier, 20 cu ft. Oxygen and MC Acetylene Cylinders*	200	Acetylene

* Gas not included

Radnor® Harris® Style Port-A-Torch®



Contains all the quality equipment needed for cutting, welding and brazing. As supplied, cuts to 1" and welds to 1/16"; with larger tips and cylinders, cuts to 4" and welds to 1/2". UL listed.

Comes Complete With

- 72-3 Cutting attachment
- Model 85 Torch handle
- 6290-1AC Cutting tip
- 23A90-3 Welding tip
- 601-80-540 Oxygen regulator
- 601-15-200 Acetylene regulator
- Hose, Striker and Goggles
- High impact frame with heavy duty toolbag
- 3 year warranty on regulators and torches

Part Number	Description	CGA	Fuel Gas
RAD64003023	Model 16601-200 Deluxe Port-A-Torch® Outfit (Cylinders Not Included)	200	Acetylene
RAD64003022	Model 16601-200 Deluxe Port-A-Torch® Outfit with 20 cu. ft. Oxygen and MC Acetylene Cylinders*	200	Acetylene

* Gas not included

Regulators

RADNOR®

Radnor® Victor® Style Light-Duty — Single-Stage Regulators 150 Series

Features

- Single-stage design
- Forged brass body and housing cap
- Stem-type seat mechanism
- Neoprene diaphragm
- Maximum inlet pressure: 3000 PSIG/204 bar
- Product is listed with a recognized independent testing agency
- 3 year warranty



RAD64003028

Part Number	Description	CGA Connection	Outlet Connection	Gas Service	Delivery Pressure (PSIG)	Gauge Diameter	Dimensions	Weight
RAD64003028	Model 150-15-510 Victor® Style Light-Duty Acetylene Regulator	510	1/16"-18 (LH Male)	Acetylene	0-15	2"	Width: 4 1/2" Height: 4" Depth: 3"	2 lb
RAD64003029	Model 150-60-540 Victor® Style Light-Duty Oxygen Regulator	540	1/16"-18 (RH Male)	Oxygen	2-60			

Radnor® Victor® Style Medium-Duty — Single-Stage Regulators 250 Series

Features

- Forged brass body and zinc die-cast housing cap
- 2" diaphragm
- Stem-type seat mechanism
- Sintered inlet filter
- Product is listed with a recognized independent testing agency
- 3 year warranty



RAD64003030

RAD64003031

Part Number	Description	CGA Connection	Outlet Connection	Gas Service	Delivery Pressure (PSIG)	Gauge Diameter	Dimensions	Weight
RAD64003030	Model 250-15-510 Victor® Style Medium-Duty Acetylene Regulator	510	1/16"-18 (LH Male)	Acetylene	2-15	2"	Width: 6 3/8" Height: 5 1/8" Depth: 4 1/4"	2 lb 7 oz
RAD64003031	Model 250-80-540 Victor® Style Medium-Duty Oxygen Regulator	540	1/16"-18 (RH Male)	Oxygen	4-80			
RAD64003032	Model 250-15-300 Victor® Style Medium-Duty Acetylene Regulator	300	1/16"-18 (LH Male)	Acetylene	2-15			
RAD64003863	Model 250-40-510LP Victor® Style Medium-Duty Alternate Fuel Regulator	510	1/16"-18 (LH Male)	Alternate*	2-40			2 lb 15 oz

*Regulators designated for fuel gas/propane service can be used with any welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

Radnor® Harris® Style Medium-Duty — Single-Stage Regulators Model 25

Features

- One-piece encapsulated seat design with an internal filter and a PTFE Du-pont™ Teflon® seat
- Chrome-plated bonnet with forged brass body
- 2" dual-scale gauges
- Featured in Steelworker® Classic Outfits
- UL listed
- 3 year warranty
- **MADE IN USA**



RAD64003061

Part Number	Description	CGA Connection	Outlet Connection	Gas Service	Delivery Pressure (PSIG)	Gauge Diameter	Dimensions	Weight
RAD64003058	Model 25-15C-300 Harris® Style Acetylene Regulator	300	1/16"-18 (LH Male)	Acetylene	0-15	2"	Width: 6 1/2" Height: 5 3/4" Depth: 4 3/4"	2.9 lb
RAD64003059	Model 25-15C-510 Harris® Style Acetylene Regulator	510	1/16"-18 (LH Male)	Acetylene	0-15			
RAD64003060	Model 25-50C-510P Harris® Style Fuel Gas/Propane Regulator	510	1/16"-18 (LH Male)	Propane*	0-50			
RAD64003061	Model 25-100C-540 Harris® Style Oxygen Regulator	540	1/16"-18 (RH Male)	Oxygen	0-125			

*Regulators designated for fuel gas/propane service can be used with any welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

RADNOR®

Radnor® Victor® Style Heavy-Duty — Single-Stage Regulators 350 Series

Features

- Forged brass body and zinc die-cast housing cap
- 2¾" diaphragm
- Stem-type seat mechanism
- Sintered inlet filter
- Product is listed with a recognized independent testing agency
- 3 year warranty



RAD64003034

Part Number	Description	CGA Connection	Outlet Connection	Gas Service	Delivery Pressure (PSIG)	Gauge Diameter	Dimensions	Weight
RAD64003033	Model 350-15-510 Victor® Style Heavy-Duty Acetylene Regulator	510	¼"-18 (LH Male)	Acetylene	2-15	2"	Width: 7½" Height: 6½" Depth: 4½"	3 lb 3 oz
RAD64003034	Model 350-125-540 Victor® Style Heavy-Duty Oxygen Regulator	540	¼"-18 (RH Male)	Oxygen	5-125			
RAD64003035	Model 350-15-300 Victor® Style Heavy-Duty Acetylene Regulator	300	¼"-18 (LH Male)	Acetylene	2-15			
RAD64003065	Model 350-40-510 Victor® Style Heavy-Duty Fuel Gas/Propane Regulator	510	¼"-18 (LH Male)	Propane*	2-40			

*Regulators designated for fuel gas/propane service can be used with any welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

Radnor® Harris® Style Heavy-Duty — Single-Stage Regulators Model 425

Features

- Tamper proof, self-reseating internal HP safety valve
- One-piece encapsulated seat design with an internal filter and a PTFE DuPont™ Teflon® seat
- Bronze adjusting screw for smooth adjusting
- 2½" dual-scale gauges
- Conforms to CGA E-4
- Featured in the Pipeliner® Classic Outfits
- UL listed
- 3 year warranty
- **MADE IN USA**



RAD64003890

Part Number	Description	CGA Connection	Outlet Connection	Gas Service	Delivery Pressure (PSIG)	Gauge Diameter	Dimensions	Weight
RAD64003890	Model 425-15-300 Harris® Style Acetylene Regulator	300	¼"-18 (LH Male)	Acetylene	0-15	2½"	Width: 6¾" Height: 6½" Depth: 4½"	3.7 lb.
RAD64003891	Model 425-15-510 Harris® Style Acetylene Regulator	510	¼"-18 (LH Male)	Acetylene	0-15			
RAD64003892	Model 425-50-510P Harris® Style Fuel Gas/Propane Regulator	510	¼"-18 (LH Male)	Propane*	0-50			
RAD64003893	Model 425-125-540 Harris® Style Oxygen Regulator	540	¼"-18 (RH Male)	Oxygen	0-125			

*Regulators designated for fuel gas/propane service can be used with any welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

Radnor® Harris® Style Heavy-Duty — Single-Stage Regulators Model 2500

Features

- Stainless steel diaphragm
- One-piece encapsulated seat design with an internal filter and a PTFE DuPont™ Teflon® seat
- Tamper proof, self-reseating internal HP safety valve
- Brass bonnet and bronze adjusting screw
- 2½" dual-scale gauges
- Conforms to CGA E-4
- UL listed
- 3 year warranty
- **MADE IN USA**



RAD64003894

Part Number	Description	CGA Connection	Outlet Connection	Gas Service	Delivery Pressure (PSIG)	Gauge Diameter	Dimensions	Weight
RAD64003894	Model 2500SS-15-300 Harris® Style Acetylene Regulator	300	¼"-18 (LH Male)	Acetylene	0-15	2½"	Width: 7½" Height: 6½" Depth: 4¾"	4.6 lb
RAD64003895	Model 2500SS-15-510 Harris® Style Acetylene Regulator	510	¼"-18 (LH Male)	Acetylene	0-15			
RAD64003896	Model 2500SS-50-510P Harris® Style Fuel Gas/Propane Regulator	510	¼"-18 (LH Male)	Propane*	0-50			
RAD64003897	Model 2500SS-125-540 Harris® Style Oxygen Regulator	540	¼"-18 (RH Male)	Oxygen	0-125			

*Regulators designated for fuel gas/propane service can be used with any welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

Gas Equipment
 Welding & Cutting Equipment
 Welding Support
 Filler Metals
 MRO Supplies
 Safety
 Index

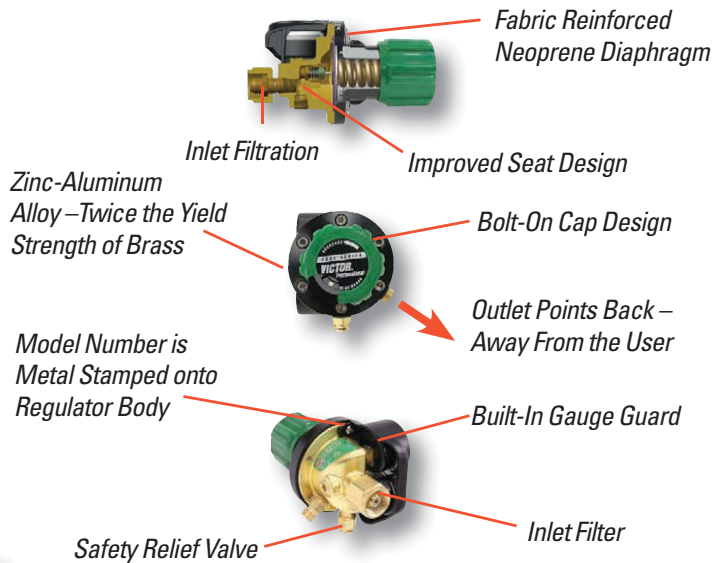
Regulators

VICTOR®

Edge™ Series Regulators

Features

- The Edge™ Series regulators have gauges with enhanced graphics, color-coded knobs for quick gas identification, and offer better hand/body positioning while adjusting delivery pressure
- The advanced design makes them the smallest, lightest, most compact industrial regulators available on the market
- Unsurpassed safety – The Edge™ Series regulators pass the most stringent testing: ASTM G-175 promoted ignition test, all CGA E-4 compliance testing, Heated Oxygen Impact Test and meet or exceed all requirements of UL 252
- Outstanding flow performance – Outperforming the competition, these regulators offer a more consistent delivery over a wide range of cylinder pressures



ESS4 & ESS3 Regulators

YELLOW	.....	Air
RED	.....	Acetylene
GREEN	.....	Oxygen
BLACK	.....	Inert Gas
GRAY	.....	Carbon Dioxide
ORANGE	.....	LPG

ESS4 Heavy-Duty Edge™ Series Regulators

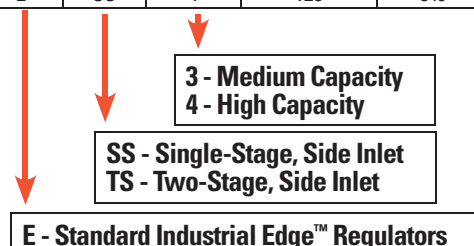
Part Number	Model Number	Series	Type	Capacity	Pressure (PSIG)	CGA	Gas Type
VIC0781-5142	ESS4-125-346	Edge™	SS	4	125	346	Air
VIC0781-5145	ESS4-200-346	Edge™	SS	4	200	346	Air
VIC0781-5132	ESS4-15-510	Edge™	SS	4	15	510	Acetylene
VIC0781-5133	ESS4-15-300	Edge™	SS	4	15	300	Acetylene
VIC0781-5140	ESS4-15-410	Edge™	SS	4	15	410	Acetylene
VIC0781-5127	ESS4-125-540	Edge™	SS	4	125	540	Oxygen
VIC0781-5131	ESS4-200-540	Edge™	SS	4	200	540	Oxygen
VIC0781-5144	ESS4-200-580	Edge™	SS	4	200	580	Inert (Nitrogen, Argon, Helium)
VIC0781-5146	ESS4-125-590	Edge™	SS	4	25	590	Industrial Air
VIC0781-5147	ESS4-200-320	Edge™	SS	4	200	320	Carbon Dioxide
VIC0781-5136	ESS4-125-510LP	Edge™	SS	4	125	510	LPG

ESS3 Medium-Duty Edge™ Series Regulators

Part Number	Model Number	Series	Type	Capacity	Pressure (PSIG)	CGA	Gas Type
VIC0781-5105	ESS3-15-510	Edge™	SS	3	15	510	Acetylene
VIC0781-5106	ESS3-15-300	Edge™	SS	3	15	300	Acetylene
VIC0781-5100	ESS3-125-540	Edge™	SS	3	125	540	Oxygen
VIC0781-5116	ESS3-125-580	Edge™	SS	3	125	580	Inert (Nitrogen, Argon, Helium)
VIC0781-5108	ESS3-40-510LP	Edge™	SS	3	40	510	LPG

Model Numbering Explanation

Model Number	Series	Type	Capacity	Max. Delivery Pressure	CGA Connection
ESS4-125-540	E	SS	4	125	540



Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

MRO Supplies

Safety

Index

RADNOR®

Radnor® Victor® Style Nitrogen Purging Regulator SR 5 Series

Features

- Machined brass body and cap
- 1½" gauges
- Stem-type seat assembly
- 1¼" neoprene diaphragm
- Internal self reseating diaphragm relief valve
- Sintered inlet filter
- Light-weight, compact design for low-pressure testing and purging
- Product is listed with a recognized independent testing agency
- 3 year warranty



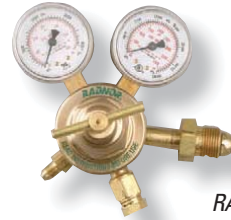
RAD64003043

Part Number	Description	CGA Connection	Outlet Connection	Delivery Pressure (PSIG)	Gauge Diameter	Dimensions	Weight
RAD64003043	Model SR5B-580 Victor® Style Light-Duty Nitrogen Purging Regulator	580	5/8"-18 (RH Female)	2-40	1½"	Width: 4¾" Height: 4¼" Depth: 3¼"	1 lb. 12 oz.

Radnor® Victor® Style Nitrogen Purging Regulator TPR 250 Series

Features

- Machined brass body
- 2" dual-scale gauges
- Stem-type seat assembly
- Product is listed with a recognized independent testing agency
- 3 year warranty
- Recommended for HVAC purging and joint testing
- Pressure tests with nitrogen to check for leaks
- Purges the system by running nitrogen to prevent oxidation on the inside of the tube while brazing
- Outlet ¼" - 37° flare



RAD64003044

Part Number	Description	CGA Connection	Outlet Connection	Delivery Pressure (PSIG)	Gauge Diameter	Dimensions	Weight
RAD64003044	Model TPR250-500-580 Victor® Style Medium-Duty Nitrogen Purging Regulator	580	¼"-37° Flare	10-500	2"	Width: 6¾" Height: 5½" Depth: 4¼"	2 lb. 15 oz

Radnor® Harris® Style Nitrogen Purging Regulator Model 25

Features

- One-piece encapsulated seat design with an internal filter and a PTFE DuPont™ Teflon® seat
- Chrome-plated bonnet with forged brass body
- 2" dual-scale gauges
- UL listed
- 3 year warranty



RAD64003048

Part Number	Description	CGA Connection	Outlet Connection	Delivery Pressure (PSIG)	Gauge Diameter	Dimensions	Weight
RAD64003048	Model 25-500C-580 Harris® Style Medium-Duty Nitrogen Purging Regulator	580	¼" Flare	0-500	2"	Width: 6½" Height: 5¾" Depth: 4¾"	2.9 lb

Radnor® Replacement Pressure Gauges

Features

- Polished, drawn brass or powder-coated steel case with one-piece, impact-resistant polycarbonate twist-lock lens.
- Machined brass socket
- Easy-to-read, corrosion-resistant, powder-coated aluminum dial
- Cleaned for oxygen service to level IV in conformance with ANSI B40.1
- ¼" NPT connection for use with compressed gas regulators
- UL listed

Note: Select gauges so that the maximum working pressure represents 50-75% of the maximum gauge reading.



Polycarbonate Gauge Covers

Part Number	Model No.	Description
RAD64003460	BG-179	1½" Gauge Cover ¼ Turn
RAD64003461	BG-176	2" Gauge Cover ¼ Turn
RAD64003462	BG-177	2½" Gauge Cover ¼ Turn

1½" Painted Steel

Part Number	Description
RAD64003418	1½" x 30 PSI Red Line
RAD64003426	1½" x 100 PSI
RAD64003434	1½" x 200 PSI
RAD64003442	1½" x 400 PSI
RAD64003450	1½" x 4000 PSI

2" Brass

Part Number	Description
RAD64003419	2" x 30 PSI Red Line
RAD64003427	2" x 100 PSI
RAD64003435	2" x 200 PSI
RAD64003443	2" x 400 PSI
RAD64003451	2" x 4000 PSI

2½" Brass

Part Number	Description
RAD64003423	2½" x 30 PSI Red Line
RAD64003431	2½" x 100 PSI
RAD64003439	2½" x 200 PSI
RAD64003447	2½" x 400 PSI
RAD64003455	2½" x 4000 PSI

Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

MRO Supplies

Safety

Index

Flowgauges, Flowmeters and Kits

HELPFUL HINT

Flowmeters vs. Flowgauges

Regulator Flowmeters are preferred for TIG welding shielding gas applications where precise flow measurement is important. Regulator flowmeters typically require very little adjustment as the cylinder pressure decays.



Regulator Flowgauges are commonly used for MIG welding shielding gas applications and approximate the flow by measuring pressure through an internal fixed outlet orifice. Regulator flowgauges often require adjustment as the cylinder pressure decays.



RADNOR

Radnor® Victor® Style Flowgauges and Kits 150 Series

Features

- Single-stage 150 Series
- Forged brass body and housing cap
- Stem-type seat mechanism
- Argon, Argon/CO₂ mix and CO₂ models
- Maximum inlet pressure: 3000 PSIG/204 bar
- Up to 50 CFH/24 LPM for argon and up to 38 CFH/18 LPM for CO₂
- Kits include 10' hose
- Product is listed with a recognized independent testing agency
- 3 year warranty



RAD64003036



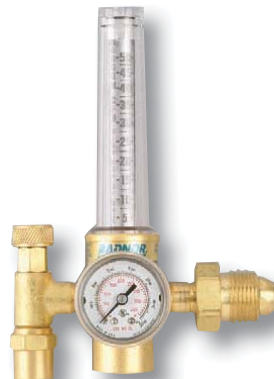
RAD64003037

Part Number	Description	CGA Connection	Outlet Connection	Gas Service	Gauge Diameter	Flow Capacity (SCFH)
RAD64003036	Model AF150-580 Victor® Style Regulator Flowgauge	580	5/8"-18 (RH Female)	Argon Argon-CO ₂ Mixes	2"	0-50
RAD64003037	Model AF150-580H Victor® Style Regulator Flowgauge Kit with 10' Hose	580		Argon Argon-CO ₂ Mixes		
RAD64003038	Model CF153-320 Victor® Style Regulator Flowgauge	320		CO ₂	0-38	
RAD64003039	Model CF153-320H Victor® Style Regulator Flowgauge Kit with 10' Hose	320	CO ₂			

Radnor® Victor® Style Flowmeter and Kit HRF-1425 Series

Features

- Single-stage piston design
- Machined brass body
- DuPont™ Teflon® seat
- Maximum inlet pressure: 3000 PSIG/204 bar
- 25 PSIG/1.7 bar or 80 PSIG/5.4 bar pre-set pressure
- Up to 50 SCFH/24 LPM for Argon and Argon/CO₂ mixes
- Kit includes 10' Hose
- Product is listed with a recognized independent testing agency
- 3 year warranty



RAD64003040



RAD64003041

Part Number	Description	CGA Connection	Outlet Connection	Gas Service	Gauge Diameter	Flow Capacity (SCFH)
RAD64003040	Model HRF-1425-580 Victor® Style Regulator Flowmeter	580	5/8"-18 (RH Female)	Argon Argon-CO ₂ Mixes	1 1/2"	0-50
RAD64003041	Model HRF-1425-580 Victor® Style Regulator Flowmeter Kit with 10' Hose					



Radnor® Harris® Style Regulator Flowgauge Kit Model 301

Features

- For accurate measurement of gas flow to 60 SCFH
- Light-weight, rugged designs
- One-piece encapsulated seat design with an internal filter and a PTFE DuPont™ Teflon® seat
- Flowgauge regulator features 2" easy-to-read Argon/CO₂ dual-scale gauges
- Kit contains 10' of 3/16" approved hose with inert gas fittings
- UL Listed
- 3 year warranty
- **MADE IN USA**



Part Number	Description	CGA Connection	Outlet Connection	Gas Service	Gauge Diameter	Flow Capacity (SCFH)
RAD64003046	Model 301-AR-58010 Harris® Style Argon Flowgauge with 10' Hose	580	5/8"-18 (RH Female)	Argon Argon-CO ₂ Mixes	2"	0-60

Radnor® Harris® Style Regulator Flowgauge Kit Model 601

Features

- For accurate measurement of gas flow to 60 SCFH
- Light-weight, rugged designs
- One-piece encapsulated seat design with an internal filter and a PTFE DuPont™ Teflon® seat
- Kit contains 10' of 3/16" approved hose with inert gas fittings
- UL Listed
- 1 year warranty
- **MADE IN USA**



Part Number	Description	CGA Connection	Outlet Connection	Gas Service	Flow Capacity (SCFH)
RAD64003047	Model 601-AR-58010 Harris® Style Argon Flowgauge with 10' Hose	580	5/8"-18 (RH Female)	Argon Argon-CO ₂ Mixes	0-60

Radnor® Harris® Style Regulator Flowmeter Kit Model 355

Features

- Regulator is pre-set at 20 PSIG
- Construction incorporates regulator and flowmeter into one compact unit
- Flow tube and float are easily changed for different gases
- Dual calibration on Argon/Carbon Dioxide flow tube
- Sensitive needle valve for fingertip control
- One-piece encapsulated seat design with an internal filter and PTFE DuPont™ Teflon® seat
- Inert gas adapter included
- Conforms to CGA E-4
- Kit contains 10' of 3/16" approved hose with inert gas fittings
- UL Listed
- 3 year warranty
- **MADE IN USA**



Part Number	Description	CGA Connection	Outlet Connection	Gas Service	Flow Capacity (SCFH)
RAD64003045	Model 355-2AR-58010 Harris® Style Argon Flowmeter with 10' Hose	580	5/8"-18 (RH Female)	Argon Argon-CO ₂ Mixes	0-70
RAD64003042	Model 355-2AR-580 Harris® Style Argon Flowmeter No Hose	580	5/8"-18 (RH Female)	Argon Argon-CO ₂ Mixes	0-70

- Gas Equipment
- Welding & Cutting Equipment
- Welding Support
- Filler Metals
- MRO Supplies
- Safety
- Index

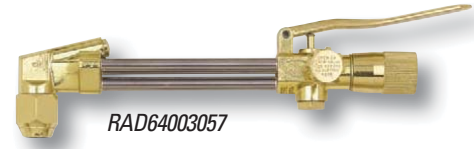
Torch Handles and Cutting Attachments

RADNOR®

Radnor® Harris® Style Classic Cutting Attachments

Features

- Solid forged head resists distortion from abuse
- Triangular tube design is compact and light-weight with exceptional strength and rigidity
- Brazed connection prevents leaks
- Protected torch union nut protects seats and O-rings from abuse
- Solid forged lever for exceptional strength, flips forward for safety and convenience
- Ease-on cutting oxygen control for smoother starts
- UL Listed



RAD64003057



RAD64003056

Part Number	Description	Workload	Cutting Capacity	Length	Weight	Handle
RAD64003057	Model 72-3 Harris® Style Cutting Attachment	Medium-Duty	5"	9½"	1.5 lb.	85 (RAD64003055)
RAD64003056	Model 73-3 Harris® Style Cutting Attachment	Heavy-Duty	6"	9½"	1.5 lb.	43-2 (RAD64003054)

Radnor® Harris® Style Classic Torch Handles

85 Medium-Duty

Radnor® by Harris® Model 85 is designed for welding, heating, and cutting with oxy/acetylene but can be adapted to alternate fuels with the proper accessories.

Features

- Silver brazed twin tube construction for safety and durability
- Equipped with FlashGuard® check valves
- Capacity: cuts to 5", welds to ½"
- UL Listed

43-2 Heavy-Duty

The Radnor® by Harris® Model 43-2 is a high capacity combination handle. With proper accessories, it can be used for either acetylene or other fuel gases.

Features

- Stainless steel head
- Equipped with FlashGuard® check valves
- Capacity: cuts to 6", welds to 1"
- UL Listed



RAD64003055



RAD64003054

Part Number	Description	Workload	Cutting Capacity	Welding Capacity	Length	Weight	Cutting Attachment
RAD64003055	Model 85 Harris® Style Medium-Duty Steelworker® Torch Handle	Medium-Duty	5"	½"	8½"	1 lb	72-3 (RAD64003057)
RAD64003054	Model 43-2 Harris® Style Heavy-Duty Pipeliner® Torch Handle	Heavy-Duty	6"	1"	9½"	1.4 lb	73-3 (RAD64003056)

Radnor® Victor® Cutting Attachments

Radnor® medium- and heavy-duty cutting attachments are for use with acetylene, propane, butane, liquid fuel gases, natural gas (2 PSIG or more) and propylene. Use the proper tips, regulators and hoses for gas service selected.



RAD64003050

RAD64003052

Part Number	Description	Workload	Cutting Capacity	Torch Handle
RAD64003050	Model CA 270-V Victor® Style Attachment	Medium-Duty	5" (Use Series 3 Tip)	WH270FC-V (RAD64003051)
RAD64003052	Model CA 370-V Victor® Style Attachment	Heavy-Duty	6" (Use Series 1 Tip)	WH370FC-V (RAD64003053)

Features

- 90° head
- Universal mixer
- Ease-on cutting oxygen
- 3 year warranty

Gas/Tip Reference Chart	
Gas	Tip Style
Acetylene	1-101
	3-101
Propane Natural Gas	GPN
	3-GPN
Propylene	1-318MP
	GPP
	3-GPP

Radnor® Victor® Style Torch Handles

High quality Radnor® products give you twice the value. Each torch handle is designed and built to withstand rugged job site conditions. In case of damage, the threaded design lets you replace parts quickly and economically. Use the proper tips, regulators and hoses for gas service selected.

Features

- Operates with any fuel gas
- ¼"-18 connections
- Built-in check valves and flash arrestors
- 3-piece "Y" assembly with threaded connections
- Product is listed with a recognized independent testing agency
- 3 year warranty



Built-in flashback arrestors and reverse flow check valves.



RAD64003051



RAD64003053

Part Number	Description	Workload	Welding Capacity	Capacity	Cutting Attachment
RAD64003051	Model WH270-FC-V Victor® Style Torch Handle	Medium-Duty	1¼" (Use W-1 Nozzle)	5" (Use Series 3 Tip)	CA 270-V (RAD64003050)
RAD64003053	Model WH370-FC-V Victor® Style Torch Handle	Heavy-Duty	3" (Use W Nozzle)	6" (Use Series 1 Tip)	CA370-V (RAD64003052)

Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

MRO Supplies

Safety

Index

Torch Handles, Cutting Torches and Attachments



VIC0384-0418



VIC0381-0816

Victor® Cutting Attachments

Part Number	Description	Workload	Cutting Capacity	Torch Handle
VIC0381-0418	CA1350 Attachment	Medium-Duty	6" (Use Series 3 Tip)	100FC
VIC0381-0816	CA2460 Attachment with 90° Head	Heavy-Duty	8" (Use Series 1 Tip)	315FC



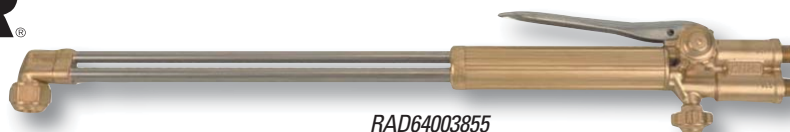
VIC0382-0032



VIC0382-0034

Victor® Torch Handles

Part Number	Description	Workload	Welding Capacity	Cutting Capacity	Cutting Attachment
VIC0382-0032	100FC Torch Handle	Medium-Duty	1.25" (Use W-1 Nozzle)	6" (Use Series 3 Tip)	CA1350 Attachment
VIC0382-0034	315FC Torch Handle	Heavy-Duty	3" (Use W Nozzle)	8" (Use Series 1 Tip)	CA2460 Attachment with 90° Head



RAD64003855

Radnor® Victor® Style Straight Cutting Torch

Radnor® Model ST 900FC Straight Cutting Torch features built-in flashback arrestors and reverse flow check valves. For use with any fuel gas 5 PSIG and above. Product is listed with a recognized independent testing agency.

Part Number	Description	Head Angle	Cutting Capacity	Length
RAD64003855	Model ST 900FC Victor® Style Straight Cutting Torch	90°	1/8" to 5" (Use Series 1 Tip)	21"

Gas/Tip Reference Chart	
Gas	Tip Style
Acetylene	1-101
Propane Natural Gas	GPN
Propylene	1-318MP
	GPP



RAD64003856

Radnor® Harris® Style Straight Cutting Torch

Radnor® Model 62-5E Straight Cutting Torch features FlashGuard® check valves, a solid forged head, brazed connections and a triangular tube design. For use with acetylene and alternative fuels. UL Listed.

Part Number	Description	Head Angle	Cutting Capacity	Length
RAD64003856	Model 62-5E Harris® Style Positive Pressure Straight Cutting Torch	90°	12"	18"

Gas/Tip Reference Chart	
Gas	Tip Style
Acetylene	6290
Propane Natural Gas	6290-NX
	6290-NFF
Propylene	6290-NXP



VIC0381-1480

Victor® Straight Cutting Torch

Victor® straight cutting torch with built-in patented flashback arrestors and reverse flow check valves for added safety. Victor® straight cutting torches can use only fuel gas with proper cutting tips.

Part Number	Description	Head Angle	Cutting Capacity	Length
VIC0381-1480	ST2600FC Cutting Torch	90°	8" (Use Series 1 Tip)	21"

Gas/Tip Reference Chart	
Gas	Tip Style
Acetylene	1-101
Propane Natural Gas	GPN
Propylene	1-318MP
	GPP



Cutting Tips

Gas Equipment

RADNOR

Radnor® Tip Refacing Tool

- Removes scale and slag from cutting tip faces to restore them to their clean, original condition
- Tough nylon outer shell



Part Number	Model	Description
RAD64002336	TR-38	Tip Refacing Tool

Welding & Cutting Equipment

Radnor® Harris® Style

Propane – Natural Gas 6290-NX

- Hand cutting
- Clean plate
- Two-piece
- Medium preheat



Part Number	Size
RAD64003247	000
RAD64003248	00
RAD64003249	0
RAD64003250	1
RAD64003251	2
RAD64003252	3
RAD64003253	4
RAD64003254	5
RAD64003255	6

Welding Support

Propane – Natural Gas 6290-NFF

- Hand cutting
- Two-piece
- Heavy preheat



Part Number	Size
RAD64003256	1
RAD64003257	2
RAD64003258	3
RAD64003259	4
RAD64003260	5
RAD64003261	6

Filler Metals

MRO Supplies

Safety

Index

RADNOR

Radnor® Harris® Style

Acetylene 6290

- Hand cutting
- Medium preheat



Part Number	Size
RAD64003235	000
RAD64003236	00
RAD64003237	0
RAD64003238	1
RAD64003239	2
RAD64003240	3
RAD64003241	4
RAD64003242	5S
RAD64003243	6S

Propane – Natural Gas 6290-VVCU

- Unplated steel
- High speed
- Machine cutting
- Two-piece
- Heavy preheat



Part Number	Size
RAD64003282	000
RAD64003283	00
RAD64003284	0
RAD64003285	1/2
RAD64003286	1
RAD64003287	1 1/2
RAD64003288	2
RAD64003290	3
RAD64003291	4

Propylene 6290-NXP

- Hand cutting
- Clean plate
- Two-piece
- Medium preheat



Part Number	Size
RAD64003272	00
RAD64003273	0
RAD64003274	1
RAD64003275	2
RAD64003276	3
RAD64003277	4

Victor® Cutting Tip Selector Chart

Attachments	Hand Torches	Machine Torches
CA 2450, CA 2460 CA 350	ST900FC, ST1000FC ST1600C, ST2600FC, ST1700, ST1800, ST1900 Series, ST900C, STN4700, MHT100	MT400, MT600, MT200, MT300, MT5, MT1265

Use These Tips: Acetylene: 1-101. Propane/Natural Gas: GPN. Propylene: 1-318MP, GPM, GPP.

Attachments	Hand Torches	Machine Torches
CA 2470, CA 1260, CA 1350, CA 250	CST800	None

Use These Tips: Acetylene: 3-101. Propane/Natural Gas: 3-GPN. Propylene: 3-GPP.

Smith® Cutting Tip Selector Chart

Attachments	Hand Torches	Machine Torches
AC305, AC309, MC505, MC509	None	None

Use These Tips: Acetylene: MC12.

Attachments	Hand Torches	Machine Torches
SC200, 205, 209, 505, 509, MC409	SC175, 179, 220, 225, 229, 275, 279,365, 369 "Silver Star" Series; SC720, 725, 729, 730, 735, 739, "Tuf-Tony" Series SC855, 859, 865, SC229S Series	SC770, 771, 780A 781A, 782A

Use These Tips: Acetylene: SC12. Propane/Natural Gas: SC50.

Harris® Cutting Tip Selector Chart

Attachments	Hand Torches	Machine Torches
49, 72,73 Series	42-3, 62-3 Series	98-2, 98-3 Series

Use These Tips: Acetylene: 6290. Propane/Natural Gas: 6290NX, 6290NFF. Propylene: 6290NXM, 6290NXP, 6290VVCU.

RADNOR VICTOR

Radnor® Victor® Style and Victor®

Acetylene 1-101

- Hand & machine cutting
- Medium preheat

Part Number	Size
RAD64003605	00
RAD64003606	0
RAD64003607	1
RAD64003608	2
RAD64003609	3
RAD64003610	4
RAD64003611	5
RAD64003612	6
RAD64003613	7
RAD64003614	8

Acetylene 3-101

- Hand & machine cutting
- Medium preheat

Part Number	Size
RAD64003621	000
RAD64003622	00
RAD64003623	0
RAD64003624	1
RAD64003625	2
RAD64003626	3
RAD64003627	4
RAD64003628	5

Acetylene 1-118

- Deseaming, scarfing
- Rivet washing
- Weld preparation

Part Number	Size
VIC0330-0109	0
VIC0330-0113	2
VIC0330-0114	4

Acetylene 3-118

- Deseaming, scarfing
- Rivet washing

Part Number	Size
VIC0331-0035	2

Propane – Natural Gas GPN

- Hand & machine cutting
- Two-piece
- Medium to heavy preheat

Part Number	Size
RAD64003633	000
RAD64003634	00
RAD64003635	0
RAD64003636	1
RAD64003637	2
RAD64003638	3
RAD64003639	4
RAD64003640	5
RAD64003641	6
RAD64003642	7
RAD64003643	8

Propane – Natural Gas 3-GPN

- Hand cutting
- Two-piece
- Medium preheat

Part Number	Size
RAD64003649	000
RAD64003650	00
RAD64003651	0
RAD64003652	1
RAD64003653	2
RAD64003654	3
RAD64003655	4

Propylene 1-318MP

- Gouging
- One piece
- Medium to heavy preheat

Part Number	Size
RAD64003697	2
RAD64003698	4

Propylene GPP

- Hand & machine cutting
- Medium preheat

Part Number	Size
RAD64003702	00
RAD64003705	0
RAD64003706	1
RAD64003707	2
RAD64003708	3
RAD64003715	4
RAD64003716	5
RAD64003717	6
RAD64003718	7
RAD64003719	8

Propylene 3-GPP

- Hand & machine cutting
- Medium preheat

Part Number	Size
RAD64003703	000
RAD64003704	00
RAD64003709	0
RAD64003710	1
RAD64003711	2
RAD64003712	3
RAD64003713	4
RAD64003714	5

RADNOR SMITH EQUIPMENT

Acetylene SC-12

- Hand & machine cutting
- Medium preheat

Part Number	Size
RAD64003192	000
RAD64003193	00
RAD64003194	0
RAD64003195	1
RAD64003196	2
RAD64003197	3
RAD64003198	4
RAD64003199	5
RAD64003200	6

Cutting Tips

Radnor® Smith® Acetylene MC-12

- General cutting
- Medium preheat

Part Number	Size
RAD64003178	00
RAD64003179	0
RAD64003180	1
RAD64003181	2
RAD64003182	3
RAD64003183	4
RAD64003184	5

Acetylene SC-13

- Gouging tip
- For heavy-duty torches

Part Number	Size
SMISC13-3	3
SMISC13-5	5

Propane - Natural Gas SC-40

- General purpose
- Hand & machine torches
- Medium preheat
- Two-piece

Part Number	Size
SMISC40-1	1
SMISC40-2	2
SMISC40-3	3

Acetylene SC-56

- Heavy preheat
- Hand & machine torches
- One piece
- Fast preheat
- Fast piercing
- Coated metals

Part Number	Size
SMISC56-1	1
SMISC56-2	2

Propylene SC-60

- General purpose
- Hand & machine cutting
- Medium preheat

Part Number	Size
SMISC60-1	1
SMISC60-2	2
SMISC60-3	3
SMISC60-4	4

Propane – Natural Gas SC 50

- Hand & machine cutting
- Two-piece
- Medium to heavy preheat

Part Number	Size
RAD64003217	00
RAD64003218	0
RAD64003219	1
RAD64003220	2
RAD64003221	3
RAD64003222	4

Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

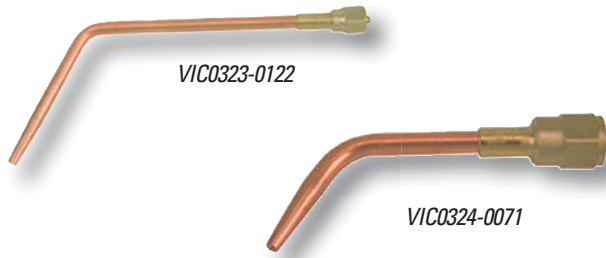
MRO Supplies

Safety

Index

Welding and Brazing Tips

VICTOR®



Victor® W Series welding tips are for general purpose welding and preheating. They are primarily used with acetylene and hydrogen fuel gas and provide a long cone flame. The one-piece copper elbow tip angle is 65 degrees.

Part Number	Model	Size	Length	Series Torch Handle
VIC0323-0112	W	0	4.5"	300
VIC0323-0120	W	1	4.5"	300
VIC0323-0121	W	2	4.5"	300
VIC0323-0122	W	3	4.5"	300
VIC0323-0130	W	4	4.5"	300
VIC0324-0070	W-1	0	4.5"	100
VIC0324-0071	W-1	1	4.5"	100
VIC0324-0072	W-1	2	4.5"	100
VIC0324-0073	W-1	3	4.5"	100
VIC0324-0074	W-1	4	4.5"	100



Victor® TEMFN tips are multiflame used for brazing and heating.

Part Number	Model	Size	Length	
VIC0311-0676	TEMFN	6	1.5"	all fuel except acetylene



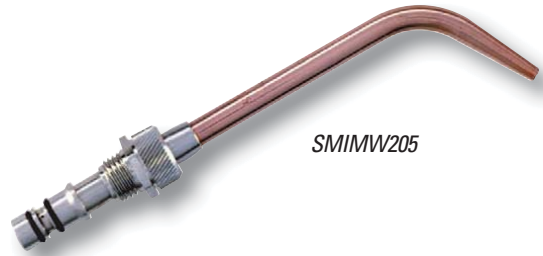
HCL1600220

Harris® 1390N Brazing Tips are designed with a counter bored tip end for maximum performance with alternate fuels. They produce stable flames over a broad BTU range. The 1360-N tips can use an interchangeable tip tube (8593) and universal mixer (E-43) reducing equipment cost and storage space.

Harris® 23A90 Welding and Brazing Tips are swaged for more precise and consistent flames. They are used with Acetylene and utilize a universal mixer (E-43) reducing equipment cost.

Part Number	Description
HCL1600220	1390-6N Brazing Tip
HCL1600240	1390-8N Brazing Tip
HCL1600250	1390-9N Brazing Tip
HCL1600860	23A90-2 Welding Tip
HCL1600870	23A90-3 Welding Tip
HCL9100312	Mixer E-43

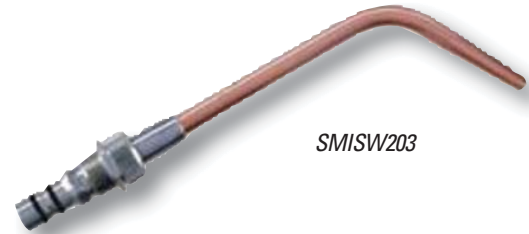
SMITH EQUIPMENT



SMIMW205

Smith® MW200 Series is for general purpose medium-duty welding which features Smith "soft flame" for easier puddle control and better penetration. Tips are bent to 63½° angle. The tips are primarily used with acetylene.

Part Number	Model	Weld Range	Series Torch Handle
SMIMW201	MW200	1/32"	WH100 & MW5A
SMIMW203	MW200	5/64"	WH100 & MW5A
SMIMW205	MW200	1/8"	WH100 & MW5A



SMISW203

Smith® SW200 Series is for general and heavy welding and brazing. Swaged construction provides greater heat concentration for improved "puddle" control. Tips bent to 63½° angle.

Part Number	Model	Weld Range	Series Torch Handle
SMISW201	SW200	1/32"	WH200 & SW1B
SMISW203	SW200	5/64"	WH200 & SW1B
SMISW205	SW200	1/8"	WH200 & SW1B



SMIAW203

Smith® AW200 Series is for general purpose light-duty welding tips which are shorter, lighter and easier to handle for less demanding applications.

Part Number	Model	Weld Range	Series Torch Handle
SMIAW201	AW200	1/32"	AW1A, AW10
SMIAW203	AW200	5/64"	AW1A, AW10
SMIAW205	AW200	1/8"	AW1A, AW10

Gas Equipment
Welding & Cutting Equipment
Welding Support
Filler Metals
MRO Supplies
Safety
Index

RADNOR®



Heating Nozzles

Multi-flame heating head for heat treating, straightening and priming. Each nozzle has its own built-in spiral mixer, designed for the tip size and flame characteristic. Use with Acetylene gas only.

WARNING: At no time should the withdrawal rate of an individual acetylene cylinder exceed 1/7 of the cylinder contents per hour.

Part Number	Model	Workload	Welding Handle
RAD64003742	6-MFA-1	Medium-Duty	WH 26FC (RAD64003051)
RAD64003746	8-MFA	Heavy-Duty	WH 36FC (RAD64003053)
RAD64003747	10-MFA	Heavy-Duty	WH 36FC (RAD64003053)

VICTOR®



Acetylene Heating Nozzles

Part Number	Model	Workload	Welding Handle
VIC0324-0109	4-MFA-1	Light-Duty	100 Series
VIC0323-0251	6-MFA	Medium-Duty	300 Series
VIC0324-0111	8MFA-1	Heavy-Duty	100 Series
VIC0323-0261	12-MFA	Heavy-Duty	HD 310C
VIC0323-0262	15-MFA	Heavy-Duty	HD 310C



Multi-Flame Heating Nozzle

Part Number	Model	Workload	Welding Handle
VIC0311-0230	Type 55, Size 10	Heavy-Duty	HD 310C

SMITH EQUIPMENT



Heating Tip Assemblies

Part Number	Model	Description	Workload	Welding Handle
SMIMT603	MT603	Smith® Heating Tip Acetylene	Medium-Duty	WH100 & MW5A
SMIMT605	MT605	Tip, Heating Acetylene	Medium-Duty	WH100 & MW5A,
SMISC83	SC83	Heating Tip for Straight Torches	Heavy-Duty	-
SMIST603	ST603	Tip, Heating Acetylene	Heavy-Duty	SW1A, WH200
SMIST605	ST605	Head, Heating Acetylene	Heavy-Duty	SW1A, WH200
SMIST615	ST615	Assembly, Heating Tip Propane	Heavy-Duty	SW1A, WH200

Tip Ends

Part Number	Model	Description	Workload	Welding Handle
SMINE153	NE153	Screw on tip for Twin Tip AT600	-	AW1A, AW10A
SMINE154	NE154	Screw on tip for Twin Tip AT600	-	AW1A, AW10A

Heating Nozzles and Tips



HCL1800020



HCL1800140



HCL1800720

Heating Tips

Part Number	Model	Workload	Welding Handle
HCL1800020	1390-H	Medium-Duty	43-2
HCL1800140	2290-2H	Medium-Duty	43-2
HCL1800720	J-63-2	Medium-Duty	43-2



Torch Mixer

Part Number	Model	Welding Handle
HCL9100614	D-85 Mixer	85



SMINE154

Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

MRO Supplies

Safety

Index

Welding Hose

HELPFUL HINT

Warning:

- **THE USE OF CERTAIN FUEL GASES MAY DAMAGE WELDING HOSE AND LEAD TO FIRES AND EXPLOSIONS.**
- Use only Grade T hose with PROPANE, PROPYLENE or any similiar fuel gas. Do not exceed 40 PSIG delivery pressure.
- Use Grade R, RM or T hose with ACETYLENE. Do not exceed 15 PSIG delivery pressure.
- Use Grade Inert with inert gas, water or air

In-Service Caution:

Shut off gas at the torch and then at the regulator or supply source when the torch will not be used for periods in excess of 30 minutes in order to limit permeation of gas through the hose wall.

Do not shut off the fuel gas at the regulator or supply source first as a FLASHBACK may result, damaging the hose and/or regulator.

Adequate ventilation must be provided in confined areas where fuel gas is being used to prevent the accumulation or concentration of gas that could be explosive or otherwise harmful to personnel.

Warning:

The CGA (Compressed Gas Association) recommends the exclusive use of Grade T hose because of its gas compatibility, oil resistance and flame resistance. Exclusive use of Grade T hose eliminates the incorrect application of other grades of hose. Refer to CGA document SB-11-2004 for delivery pressure.



RADNOR®

All grades of Radnor Welding Hose

- Are red for fuel gas; green for oxygen, black for inert

Hose Type	Temp Rating		Max WP	
	Farenheit	Celsius	PSI	Mpa
Grade R, RM Twin, Single	-40° to 120°F	-40° to 48°C	200	1.38
Grade T Twin	-20° to 120°F	-28° to 48°C	200	1.38
Grade T Single	-50° to 120°F	-45° to 48°C	200	1.38
Grade Inert Single	-40° to 190°F	-40° to 88°C	200	1.38

Hose Type	Nominal ID		Nominal OD		Weight		Recommended Ferrule
	in	mm	in	mm	lb/ft	kg/m	
Grade R, T Twin	3/16	4.8	0.44	11.2	0.13	0.19	RAD64003922 (7322)
	1/4	6.3	0.53	13.5	0.18	0.27	RAD64003924 (7325)
	5/16	7.9	0.59	15	0.22	0.33	RAD64003928 (7329), RAD64003927 (7328)
	3/8	9.5	0.66	16.8	0.26	0.39	RAD64003920 (7330-B)

Hose Type	Nominal ID		Nominal OD		Weight		Recommended Ferrule
	in	mm	in	mm	lb/ft	kg/m	
Grade RM Twin	3/16	4.8	0.44	11.2	0.15	0.22	RAD64003922 (7322)
	1/4	6.3	0.53	13.5	0.21	0.31	RAD64003924 (7325)
	5/16	7.9	0.59	15	0.25	0.37	RAD64003928 (7329), RAD64003927 (7328)
	3/8	9.5	0.66	16.8	0.29	0.43	RAD64003920 (7330-B)

Hose Type	Nominal ID		Nominal OD		Weight	
	in	mm	in	mm	lb/ft	kg/m
Grade Inert Single	1/4	6.4	0.50	12.7	0.09	0.13

Table is for B fittings. Hose manufacturer recommends using one inch ferrules only.

Twin Hose – Cut Lengths



- **Grade R** hose features Versigard synthetic rubber tubes compatible with oxygen and acetylene gases and Versigard synthetic rubber smooth surface
- **Grade RM** hose features Plioflex synthetic rubber tubes compatible with oxygen and acetylene gases and a Chemivic synthetic rubber smooth cover that is non-conductive

- **Grade T** hose is for welding service. It meets RMA/CGA Standards for Grade T welding hose and is non-conductive
- All grades of hose feature spiral synthetic yarn reinforcement

Grade R

Type VD – For use with Acetylene gas only

Part Number	Description
RAD64003318	3/16" x 12 1/2' – BB
RAD64003319	3/16" x 12 1/2' – AB
RAD64003320	3/16" x 12 1/2' – AA
RAD64003321	3/16" x 25' – BB
RAD64003322	3/16" x 25' – AB
RAD64003323	3/16" x 50' – BB
RAD64003324	3/16" x 100' – BB
RAD64003350	1/4" x 12 1/2' – BB
RAD64003325	1/4" x 25' – BB
RAD64003326	1/4" x 50' – BB
RAD64003327	1/4" x 100' – BB
RAD64003328	5/16" x 25' – BB
RAD64003329	5/16" x 50' – BB
RAD64003331	3/8" x 25' – BB
RAD64003332	3/8" x 50' – BB
RAD64003333	3/8" x 100' – BB

Grade RM

For use with Acetylene gas only
Non-conductive

Part Number	Description
RAD64003304	3/16" x 12 1/2' – BB
RAD64003305	3/16" x 12 1/2' – AB
RAD64003306	3/16" x 25' – BB
RAD64003307	3/16" x 25' – AB
RAD64003308	3/16" x 50' – BB
RAD64003309	3/16" x 100' – BB
RAD64003310	1/4" x 25' – BB
RAD64003311	1/4" x 50' – BB
RAD64003312	1/4" x 100' – BB
RAD64003314	5/16" x 50' – BB
RAD64003301	3/8" x 25' – BB
RAD64003302	3/8" x 50' – BB
RAD64003303	3/8" x 100' – BB

Grade T

Type VD - For use with Fuel Gas including Acetylene
Non-conductive

Part No.	Description
RAD64003334	3/16" x 12 1/2' – BB
RAD64003335	3/16" x 12 1/2' – AB
RAD64003336	3/16" x 25' – BB
RAD64003337	3/16" x 25' – AB
RAD64003338	3/16" x 50' – BB
RAD64003339	3/16" x 100' – BB
RAD64003340	1/4" x 25' – BB
RAD64003341	1/4" x 50' – BB
RAD64003342	1/4" x 100' – BB
RAD64003343	5/16" x 25' – BB
RAD64003344	5/16" x 50' – BB
RAD64003345	5/16" x 100' – BB
RAD64003346	3/8" x 25' – BB
RAD64003347	3/8" x 50' – BB
RAD64003348	3/8" x 100' – BB

RADNOR®

Radnor® Single Hose – Cut Lengths



Grade R Single Cut Lengths

Part Number	Description
RAD64003352	3/16" x 6' Red AA
RAD64003353	3/16" x 6' Red BB
RAD64003354	1/4" x 25' Red BB

Inert Single Cut Lengths

Part Number	Description
RAD64003357	1/4" x 10' Black Inert, AW-14A Fitting
RAD64003358	1/4" x 25' Black Inert, AW-14A Fitting
RAD64003359	1/4" x 50' Black Inert, AW-14A Fitting
RAD64003360	1/4" x 100' Black Inert, AW-14A Fitting

Welding Hose, Adapters and Fittings

Bulk Hose

Radnor® twin and single hose is available in bulk reels and is stocked in the most popular types and sizes. Ideal for use by contractors, large

shops, high-production facilities or anyone who needs to make up custom length hoses.

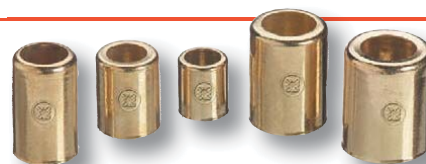
Part Number	Description
RAD64003363	1/4" Grade R Twin 750'
RAD64003365	3/8" Grade R Twin 750'
RAD64003366	3/16" Red Grade R Single 750'
RAD64003370	1/4" Red Grade R Single 750'
RAD64003371	1/4" Green Grade R Single 750'
RAD64003375	3/8" Green Grade R Single 750'
RAD64003379	1/4" Grade T Twin 750'
RAD64003381	3/8" Grade T Twin 750'
RAD64003373	1/4" Black Inert Single 500'

All reels may contain up to three pieces of hose, the smallest being no less than 25 feet in length, in accordance with industry standard practice.

RADNOR®



Brass Hose Ferrules



Part Number	Style	Diameter (inches)	Length (inches)	Recommended Hand Crimp Tool	5111- A Die	
					Plain	Ribbed
RAD64003921	3588	.562	3/4	C-3B, C-5, CR-100	CD-38	CDR-37
RAD64003922	7322	.500	1	C-3B	–	CDR-39
RAD64003923	7323	.525	1	C-3B	–	CDR-38
RAD64003924	7325	.562	1	C-3B, C-5, CR-100	CD-38	CDR-37
RAD64003925	7326	.593	1	C-1, C-3B, C-3, C-5	–	CDR-36
RAD64003926	7327	.625	1	C-3B, C-6, CR-100	–	CDR-35
RAD64003927	7328	.656	1	C-3B, C-6, CR-100	–	CDR-34
RAD64003928	7329	.687	1	C-3, C-6, CR-100	–	–
RAD64003920	7330-B	.718	1	C-3, C-6	–	–
RAD64003985	769	.450	9/16	C-1, C-5, C-5A, CR-100	–	CDR-41
RAD64003989*	7326	.593	1	C-1, C-3B, C-3, C-5	–	CDR-36
RAD64003990*	7323	.525	1	C-3B	–	CDR-38
RAD64003991	7325	.562	1	C-3B, C-5, CR-100	CD-38	CDR-37
WES6231	–	.33	1/2	C-54	–	CDR-46
WES3588	–	.564	3/4	C-3B, C-5, CR-100	CD-38	CDR-37
WES626	–	.548	3 1/64	C-3B	–	CDR-38
WES7325	–	.562	1	C-3B, C-5, CR-100	CD-38	CDR-37
WESI-I	–	.625	1/2	C-3B, C-6, CR-100	–	CDR-35
WES769	–	.45	9/16	C-1, C-5, C-5A, CR-100	–	CDR-41
WESK-K	–	.575	3 1/64	C-1, C-3, C-5, C-3, CR-100	CD-38	CDR-37
WES4750	–	.478	1 1/16	CR-100	–	CDR-41

*Multiple ferrules in package.

RADNOR®

Radnor® Hose Repair Kits

Hose repair kits include crimping tool, nuts, couplers, splicers, nipples and ferrules. Fast, easy concave crimp ensures strong connections. Convenient plastic case is durable and includes a full color label and description chart.



Part Number	Description
RAD64003936	CK-5 Kit with C-5 Crimp Tool for 3/16", 1/4" ID Hose
RAD64003937	CK-24 Kit with C-5 Crimp Tool for 3/16", 1/4" ID Hose
RAD64003938	CK-26 Kit with C5 Crimp Tool for 1/4" ID Hose, B-Size Fittings Only
RAD64003898	CK-27 Hose Repair Kit 3/16", 1/4" B-Size Fittings Only
RAD64003899	CK-28 Hose Repair Kit 1/4" B-Size Fittings Only

RADNOR®

Radnor® Hand-Held Ferrule Crimp Tools

For Hand Grip Pressure

For Hammer Strike or Vice Pressure



RAD64003965

RAD64003966

Part Number	Description
RAD64003965	C-5 – 2 Hole Jaw 1/2" Wide, Use on 3/16", 1/4" Hose: Hand Grip
RAD64003966	C-1 – 2 Hole Jaw 5/8" Wide, Use on 3/16", 1/4" Hose: Hammer/Vice

Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

MRO Supplies

Safety

Index

Hose Adapters and Fittings

Gas Equipment

Welding & Cutting Equipment

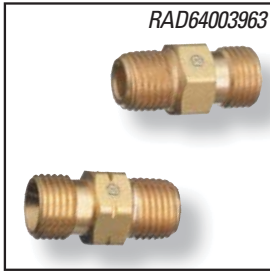
Welding Support

Filler Metals

MRO Supplies

Safety

Index



RADNOR®

Brass Hose Parts Kits

Radnor® hose kits are conveniently packaged for common hose repair needs.

Part Number	Description	Kit Contains
RAD64003958	Model WD2101 1/4" Twin Hose Kit	One Each of 7, 8, 9, and 502
RAD64003962	Model WD2105 Hose-to-Hose Couplers	One Each of 30 and 31
RAD64003963	Model WD2106 Regulator-to-Hose Couplers	One Each of 32 and 33
RAD64003964	Model WD2107 1/4" B-Size Inert Gas Kit	One Each of AW-14A, AW-17 and 502
RAD64003967	Model WD2110 .562" x 1" Hose Ferrues for 1/4" ID Hose	Six Each of 7325
RAD64003969	Model WD2114 Washer Kit for Carbon Dioxide	One Each of CO-5 and CO-6
RAD64003971	Model WD2116 Fuel Gas Nuts	Two Each of 8
RAD64003974	Model WD2119 CGA-540 Oxygen Nut and Nipple	One Each of 62 and 63
RAD64003975	Model WD2120 CGA-510 Acetylene Nut and Nipple	One Each of 15-2 and 15-3
RAD64003976	Model WD2121 CGA-580 Nitrogen Nut and Nipple	One Each of 92 and 15-3
RAD64003982	Model WD2131 1/4" ID Hose Splicers	Two Each of 44



RAD4003978

Brass Hose Adaptors

Part Number	Description
RAD64003978	103 - Oxygen RH: Male A-Size to Female B-Size
RAD64003979	104 - Acetylene/Fuel Gases LH: Male A-Size to Female B-Size
RAD64003980	105 - Oxygen RH: Male B-Size to Female A-Size
RAD64003981	106 - Acetylene/Fuel Gases LH: Male B-Size to Female A-Size
RAD64003947	541 - Male 1/4" NPT to 1/4" ID Hose

Brass "Y" Connections

- For pressures up to 200 PSIG
- For use of two cutting and/or two welding torches at once



RAD64003973

Part Number	Description	Service
RAD64003973	101 - Oxygen RH: B-Size F Inlet to B-Size M Outlets	CGA-022
RAD64003977	102 - Acetylene/Fuel Gases LH: B-Size F Inlet to B-Size M Outlets	CGA-023

Brass Hose Splicers

Part Number	Description
RAD64003911	44 - 1/4" to 1/4" ID Barb Round
RAD64003912	45 - 3/16" to 3/16" ID Barb Round Bulk
RAD64003993	45 - (WD2132) 3/16" to 3/16" ID Barb Round (2/pk)
RAD64003913	46 - 5/16" to 5/16" ID Barb Round
RAD64003914	47 - 3/8" to 3/8" ID Barb Round
RAD64003994	47 - (WD2133) 3/8" to 3/8" ID Barb Round (2/pk)
RAD64003915	54 - 1/4" to 1/4" Barb No-Stop

RAD64003911

Brass Barbed Hose Nipples

Part Number	Description
RAD64003904	17 - 1/4" ID Hose x 1 1/2" B-Size
RAD64003987	17 - (WD2117) 1/4" ID Hose x 1 1/2" B-Size (2/pk)
RAD64003905	18 - 3/16" ID Hose x 1 1/2" B-Size
RAD64003988	18 - (WD2118) 3/16" ID Hose x 1 1/2" B-Size (2/pk)
RAD64003906	20 - 3/8" ID Hose x 1 1/2" B-Size
RAD64003919	216 - 5/16" ID Hose x 1 1/2" B-Size
WES19	3/16" ID Hose x 1/4" A-Size
WES18	3/16" ID Hose x 1 1/2" B-Size
WESC-18	1/2" ID Hose x 2 1/4" C-Size

RAD64003904

Brass Valved "Y" Connect

- For pressures up to 200 PSIG
- For use of two cutting and/or two welding torches at once
- Precision shut-off valves



RAD64003917

Part Number	Description	Service
RAD64003917	111 - Oxygen RH: B-Size F Inlet to B-Size M Outlets	CGA-022
RAD64003918	112 - Acetylene/Fuel Gases LH: B-Size F Inlet to B-Size M Outlets	CGA-023
RAD64003946	411 - Inert gas RH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-032



RAD64003983

Brass Hose Clamps

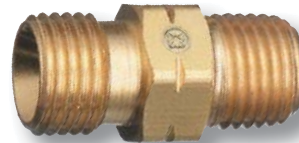
Part Number	Description
RAD64003983	502 - Clamp - Clamp ID: 9/16" For Hose ID: 1/4"
RAD64003984	500 - Clamp - Clamp ID: 7/16" For Hose ID: 3/16"



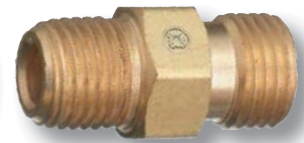
RAD64003931

Brass Inert Arc Barbed Hose Nipple

Part Number	Description
RAD64003931	AW-17 – ¼" ID Hose x 27/32" B-Size
RAD64003932	AW-18 – 3/16" ID Hose x 27/32" B-Size
WESAW-17	AW-17 – ¼" ID Hose x 27/32" B-Size



RAD64003910



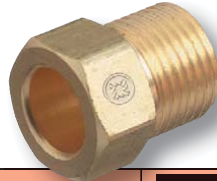
RAD64003909

Regulator Outlet Bushings (Adapters)

For pressures up to 200 PSIG

Part Number	Description
RAD64003909	32 – ¼" NPT to B-Size RH Bulk
RAD64003997	32 – (WD2140) ¼" NPT to B-Size RH (2/pk)
RAD64003910	33 – ¼" NPT to B-Size LH Bulk
RAD64003998	33 – (WD2145) ¼" NPT to B-Size LH (2/pk)
WESC-32	½" NPT to C-Size RH

RAD64003929



Brass Inert Arc Adapter, Couplers & Hose Nuts

Part Number	Description	Service
RAD64003929	AW-14A – Inert Arc Nut; Gas, Male RH; B-Size	CGA-032
RAD64003930	AW-14 – Inert Arc Nut; Water, Male LH; B-Size	CGA-033
RAD64003933	AW-15A – Inert Arc Adapter; ¼" NPT Male to B-Size Female RH	CGA-032
RAD64003934	AW-427 – Inert Arc Adapter; RHM to ¼" NPT Male	CGA-032
RAD64003935	AW-430 – Inert Arc Hose Coupler; RH Female to B-Size RH Female	CGA-032
RAD64003992	AW-430 – Inert Arc Hose Coupler; RH Female to B-Size RH Female	CGA-032
WESAW-14A	AW-14A – Inert Arc Nut; Gas, Male RH; B-Size	CGA-032
WESAW-430	AW-430 – Inert Arc Hose Coupler; RH Female to B-Size RH Female	CGA-032



RAD64003902

RAD64003916



Brass Regulator Nuts

Part Number	Description	Pressure	Service
RAD64003902	15-2 – Nut - .880"-14 NGO, LH Male	500 PSIG	CGA-510
RAD64003916	92 – Nut - .960"-14 NGO, RH Male	3000 PSIG	CGA-580
RAD64003968	CO-2 – Nut - .830"-14 NGO, RH Female	3000 PSIG	CGA-320
WES82	.830" – 14 NGO, LH Female	3000 PSIG	CGA-350



RAD64003900



RAD64003901

Brass Hose Nuts

Part Number	Description	Service
RAD64003900	7 – Oxygen RH; B-Size Bulk	CGA-022
RAD64003986	7 – (WD2115) Oxygen RH; B-Size (2/pk)	CGA-022
RAD64003901	8 – Acetylene/Fuel Gases LH; B-Size	CGA-023
WESC-7	7 – Oxygen RH; C-Size	CGA-024
WES9	9 – Oxygen RH; A-Size	CGA-020
WES10	10 – Acetylene Fuel Gases, LH A Size	CGA-021



RAD64003903

Brass Regulator Nipple

Part Number	Description	Service
RAD64003903	15-3 – Nipple - ¼" NPT, 3" Long	CGA-510, CGA-580
RAD64003970	CO-3 – Nipple - ¼" NPT, 2" Long	CGA-320
WES83	¼" NPT, 2½" Long	CGA-350



RAD64003960



R D

Pipe Thread Connectors

Part Number	Description
RAD64003960	B-4HP – Male To Male - ¼" NPT x ¼" NPT
RAD64003961	BF-4HP – Female To Female - ¼" NPT x ¼" NPT

Brass Hose Couplers

For pressures up to 200 PSIG



RAD64003907

Part Number	Description
RAD64003907	30 – Oxygen RH, B-Size to B-Size Bulk
RAD64003995	30 – (WD2138) Oxygen RH, B-Size to B-Size (2/pk)
RAD64003908	31 – Acetylene/Fuel Gases LH, B-Size to B-Size
RAD64003996	31 – (WD2139) Acetylene/Fuel Gases LH, B-Size to B-Size (2/pk)

CO₂ Washers

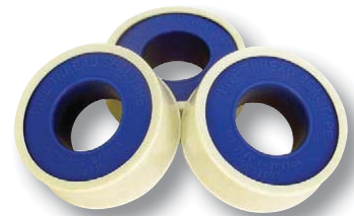
Part Number	Description	Service
RAD64003939	CO-5 Flat Fiber Washer	CGA-320
RAD64003940	CO-6 Flat Teflon Washer	CGA-320



RAD64003940

DuPont™ Teflon® Tape

Part Number	Description
RAD64003972	MTT-2K – ½" X 520"



Brass Dual Hose Braces, Oval

Part Number	Description
WES9940-P	.535" x 1.071" x 3/4"



Cylinder Adapters and Fittings



Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

MRO Supplies

Safety

Index

Brass Cylinder Adapters

Adapters connect a regulator to a cylinder or other equipment when different CGA threads on the mating parts make a direct connection impossible.

Adapters must be selected with care to ensure that regulators and other equipment are used only with compatible gases and pressure ratings.

A mixture of non-compatible gases in any system is a possible hazard. Regulators and all other parts of an adapted system must be thoroughly purged of all contaminants, especially organic material and residual gases. Replace worn or damaged fittings immediately to ensure safe and dependable operation.

Adapters should not be used as permanent installations. For long-term use, the appropriate CGA regulator should be used on all cylinders and gas systems.

Part Number	OEM Part Number	Model	From CGA	To CGA
RAD64003950	51	51	510	300
RAD64003951	61	61	300	510
RAD64003952	WD-306	306	520	200
RAD64003953	WD-315	315	510	520
RAD64003954	WD-317	317	520	510
RAD64003955	WD-321	321	200	510
RAD64003956	WD-806	806	320	580
RAD64003957	810	810	580	320

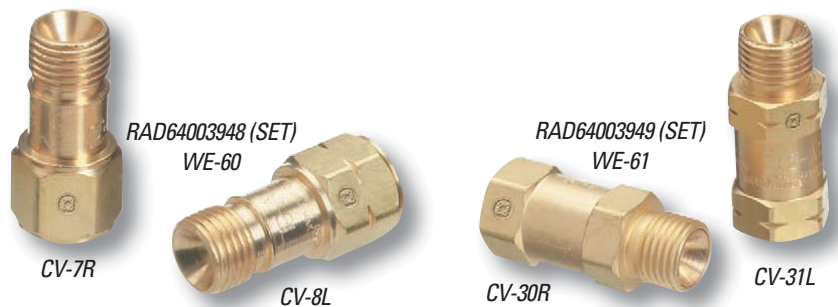
<p><i>RAD64003950</i></p> <p><i>POL Acetylene Cylinder to Commercial Acetylene Regulator (1 Piece)</i></p>	<p><i>RAD64003951</i></p> <p><i>Commercial Acetylene Cylinder to POL Acetylene Regulator</i></p>
<p><i>RAD64003952</i></p> <p><i>"B" Tank Acetylene Cylinder to "MC" Acetylene Regulator</i></p>	<p><i>RAD64003953</i></p> <p><i>POL Acetylene Cylinder to "B" Tank Regulator</i></p>
<p><i>RAD64003954</i></p> <p><i>"B" Tank Acetylene Cylinder to POL Acetylene Regulator</i></p>	<p><i>RAD64003955</i></p> <p><i>"MC" Acetylene Cylinder to POL Acetylene Regulator</i></p>
<p><i>RAD64003956</i></p> <p><i>Carbon Dioxide Cylinder to Nitrogen Regulator</i></p>	<p><i>RAD64003957</i></p> <p><i>Nitrogen Cylinder to CO₂ Regulator</i></p>

Reverse-Flow Check Valves

For torch and regulator applications, Radnor® Check Valves guard against danger caused by plugged tips, over-pressurizing or incorrect startup procedures. Proper Check Valve installation helps prevent accidents caused by gases mixing in hoses, regulators or cylinders.

Note: Check Valves do not stop flashbacks.

- Flows for cutting up to 12" of steel
- Machined high-quality brass with stainless steel operating spring and valve disc
- Low open/close pressures: 3 oz. open valve and 10 oz. reverse pressure to positively close valve
- Pressure ratings: (unless otherwise listed)
 - Oxygen – To 125 PSIG (860 kPa)
 - Fuel Gas – To 50 PSIG (345 kPa)
- Check Valve Seat Material:
 - A-Size Models – Viton™
 - B-Size Models – Buna-N™
- 100% tested and UL Listed
- **MADE IN USA**



Torch Model, B-Size (9/16"-18)

Mounts easily on torch, is readily seen and can be removed for periodic testing. Flows cut up to 12" steel plate or handle heating tips (1200 SCFH at 50 PSIG). Stops reverse-flow at point of origin.

Part Number	Description	Service
RAD64003948 (WE-60)	Torch Style – Set CV-7R & CV-8L	–
Set Contains	CV-7R – Oxygen RH, B-Size Male to B-Size Female Nut, to 125 PSIG (800 kPa)	CGA-022
	CV-8L – Fuel Gas LH, B-Size Male to B-Size Female Nut, to 50 PSIG (345 kPa)	CGA-023

Regulator Bushing Adaptor Model, B-Size (9/16"-18)

Easily mounts on outlet bushing of any regulator having a B-Size outlet. This model has the same flow capacity as the torch-type (1200 SCFH at 50 PSIG) when installed on a regulator. The Check Valve is easy to see and is less subject to contamination, abuse and damage.

Part Number	Description	Service
RAD64003949 WE-61	Regulator Adapter– Set CV-30R & CV-31L	–
Set Contains	CV-30R – Oxygen RH, B-Size Female Nut to B-Size Male, to 125 PSIG (800 kPa)	CGA-022
	CV-31L – Fuel Gas LH, B-Size F Nut to B-Size Male, to 50 PSIG (345 kPa)	CGA-023



WESTERN
ENTERPRISES

Quick Connects For Torches, Regulators & Hoses

Quick Connects provide fast, reliable and positive connections and quick disconnections for torches, hoses and regulators.

All models are color-coded for gas service for added safety (oxygen/green, fuel gas/red, inert gas/blue). Oxy-fuel gas models include integral reverse flow Check Valves. Quick Connects fit all B-size welding and cutting equipment.

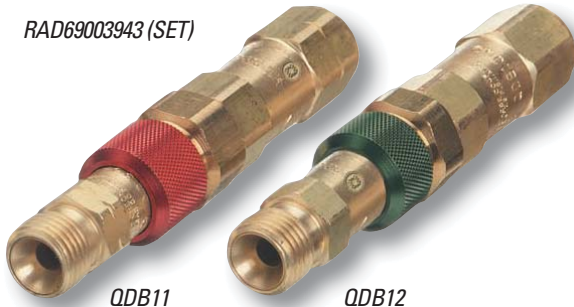
Features & Specifications:

- Brass construction provides long service life—cycle tested over 10,000 operations indicating a service life of 10 to 12 years of comparable use
- Non-interchangeable Oxygen and Fuel Gas connectors prevent accidental gas mixing
- Instant closure on reverse flow Check Valves with total shutoff at only 10 oz. of back pressure
- Exceed CGA flow specifications – 1100 SCFH flow at 125 PSIG inlet pressure; 800 SCFH flow at 125 PSIG inlet pressure when two additional check valves are used in conjunction with the Quick Connects
- Spring-loaded locking mechanism responds to fingertip action and achieves a gas-tight connection
- Double-seal socket connection on second seal provides added safety protection
- Installation and operating instructions included
- 200 PSIG maximum operating pressure



WESQDB34

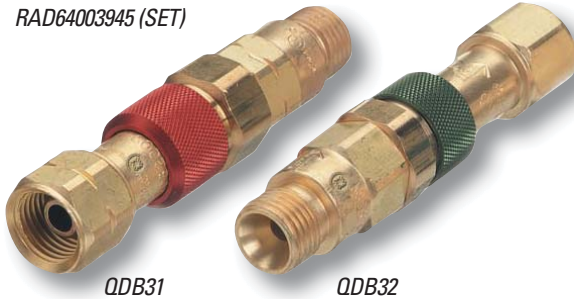
RAD69003943 (SET)



QDB11

QDB12

RAD64003945 (SET)



QDB31

QDB32

Quick Connects – Sets

Part Number	Model	Description
Torch-to-Hose		
RAD64003943	QDB10	QDB11–Fuel Gas Torch-to-Hose Set w/Check Valves QDB12–Oxygen/Inert Torch-to-Hose Set w/Check Valves
Set Contains	QDB11	QDB200–Male Plug Fuel Gas + Check Valve QDB201–Female Socket Fuel Gas
	QDB12	QDB100– Male Plug Oxygen/Inert Gas + Check Valve QDB101– Female Socket Oxygen/Inert Gas
Hose-to-Hose		
RAD64003944	QDB20	QDB21–Fuel Gas Hose-to-Hose Set w/Check Valves QDB22–Oxygen/Inert Hose-to-Hose Set w/Check Valves
Set Contains	QDB21	QDB205–Male Plug Fuel Gas + Check Valve QDB201–Female Socket Fuel Gas
	QDB22	QDB105–Male Plug Oxygen/Inert Gas + Check Valve QDB101– Female Socket Oxygen/Inert Gas
Regulator-to-Hose		
RAD64003945	QDB30	QDB31–Fuel Gas Regulator-to-Hose w/Check Valves QDB32–Oxygen Regulator-to-Hose w/Check Valves
Set Contains	QDB31	QDB205–Male Plug Fuel Gas + Check Valve QDB206–Female Socket Fuel Gas
	QDB32	QDB105–Male Plug Oxygen + Check Valve QDB106–Female Socket Oxygen
WESQDB34	QDB34	Inert Gas Hose-to-Machine 5/8" - 18 RH



Radnor® Oxy-Fuel Gas Flashback Arrestors

Features And Specifications

Welders rely on Radnor® advanced Flashback Arrestors to help prevent serious incidents caused by reverse gas flow or flashbacks. Radnor® Flashback Arrestors are designed to stop flashbacks by preventing ignition of mixed gases and to protect equipment such as hoses, regulators and cylinders.

- Color-coded for gas service to provide added safety – oxygen (green), fuel gas (red)
- Internal check valves designed to prevent reverse flow and accidental mixing of oxygen and fuel gases
- Maximum operating pressures are 15 PSIG for acetylene, 22 PSIG for other fuel gases, and 125 PSIG for oxygen
- Rated capacity of 40 SCFH with a 5 PSIG pressure drop
- Torch and Regulator models provide downstream and upstream protection
- 10" maximum cutting capacity
- Reusable; manual resetting not required
- UL listed and 100% tested
- Complete installation, testing and operating instructions included

RAD64003942 SET



FA-230P

FA-130P

Flashback Arrestor Sets With Components

Part Number	Model	Description
RAD64003941	FA-10	Flashback Arrestor Set, Torch Style
Set Contains		FA-100P Flashback Arrestor, Oxygen, Torch Style
		FA-200P Flashback Arrestor, Fuel Gas, Torch Style
RAD64003942	FA-30	Flashback Arrestor Set, Regulator Adapter Style
Set Contains		FA-130P Flashback Arrestor, Oxygen, Regulator Adapter Style
		FA-230P Flashback Arrestor, Fuel Gas, Regulator Adapter Style

Gas
Equipment

Welding &
Cutting Equipment

Welding
Support

Filler Metals

MRO Supplies

Safety

Index

Gas Equipment Accessories

RADNOR®

Lightnin' Bug® Torch Lighter

The Lightnin' Bug®'s electric multi-spark discharge ignites all fuel gases quick and easily. The amazing new energy generator used in Lightnin' Bug® never needs flints, batteries or charging.

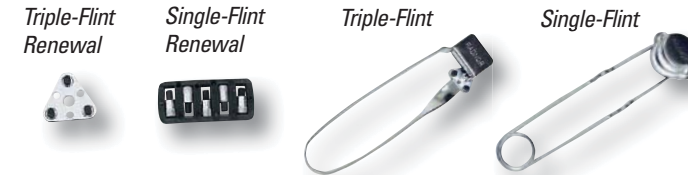
- Easy and accurate ignition – discharges five times or more per squeeze
- Durable zinc-plated body resists rust and corrosion
- Versatile enough to use with all industrial fuel gases



TESTED TO 30,000 STRIKES!



Part Number	Model	Description
RAD64003409	08100	Lightnin' Bug® Torch Lighter



Spark Lighters and Flint Replacements

- Rounded-file spark lighters feature the largest hood and round file in the industry
- Triple-flint lighters have a strong, rigid frame with three large flints for dependable ignition under any weather conditions

POP Part Number	Bulk Part Number	Model	Description
RAD64003410	RAD64003411	2001	Single-Flint Spark Lighter
RAD64003414	RAD64003415	3001X	Single-Flint Renewal
RAD64003412	RAD64003413	4501	Triple-Flint Spark Lighter
RAD64003416	RAD64003417	5012X	Triple-Flint Renewal

POP = Point of Purchase



Tip Cleaner Sets

- Rust proof, stainless steel wire and file
- Uniform ridges wipe and polish the orifice wall
- Tangle free loops
- Tapered-ends allow smooth, easy entry without scratching

Standard

Set of 13 cleaners with file. Size #6 through 26 for cleaning. Drill Size: 77-49

King Size

Set of 13 extra long cleaners with file. Size #6 through 26 for cleaning. Drill Size: 77-49

Jumbo

Set of 9 cleaners with file. Size #28 through 45 for cleaning. Drill Size: 48-30

Master

Set of 24 cleaners with file. Size #6 through 45 for cleaning. Drill Size: 77-30

POP Part Number	Bulk Part Number	Model	Description
RAD64002382	RAD64002383	RSTC	Standard Tip Cleaner
RAD64002384	RAD64002385	RKTC	King Tip Cleaner
-	RAD64002388	RJTC	Jumbo Tip Cleaner
-	RAD64002389	RMTC	Master Tip Cleaner

POP = Point of Purchase



Tank Wrenches

- Heavy-duty forged tank (cylinder) wrenches fit most valve stems and gas connections
- Socket-holes are deep, smooth and precisely sized for solid connection
- Model 5 wrenches are nickel plated for industrial and medical use. All other wrenches come in high-quality, powder-coated black finish.

Part Number	Model	Description	Hole Size	Qty
RAD64003400	1013	Ten Way Tank Wrench, 3/16" - 1 1/8" with 3/8" Socket	3/8"	1
RAD64003401				10
RAD64003406	250	"T" Handle Tank Wrench for Linde®, POL, Pyrofax Valves	1/4"	10
RAD64003408	20	"T" Handle Tank Wrench for Propane and Commercial Valves	3/8"	1
RAD64003402	10	"L" Handle Tank Wrench for Commercial Acetylene Valves	3/8"	1
RAD64003404	5	Box Tank Wrench for B & MC Acetylene Valves	3/16"	100

Tip Drill Kit, 12 pc.

- Cleans and trues most standard orifices
- Contains most commonly used 12 drills (#52-74) in assorted sizes
- Complete with built-in chuck and pocket clip

Part Number	Model	Description
RAD64002312	TDK-12	12-Piece Wire Gauge Drill Tip Cleaner Set

Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

MRO Supplies

Safety

Index

Cutting and Heating Solutions for Propylene

Propylene is a safe, high-performance fuel for cutting, heating and brazing

Already Have an Oxygen Regulator and Torch?

Follow These Steps



1. Use only T Grade Hose



Hose Type	25'	50'	100'
¼" Twin Grade T BB	RAD64003340	RAD64003341	RAD64003342
⅝" Twin Grade T BB	RAD64003343	RAD64003344	RAD64003345
¾" Twin Grade T BB	RAD64003346	RAD64003347	RAD64003348

Bulk reels also available.

2. Use an LP Regulator

Part Number	Model	Delivery Pressure	Gauge Diameter
Light-Duty			
VIC0780-2533	SR7B-510	2-40 PSIG	1½"
Medium-Duty			
RAD64003863	250-40-510LP	2-40 PSIG	2"
RAD64003060	25-50C-510P	0-50 PSIG	2"
Heavy-Duty			
RAD64003065	350-40-510LP	2-40 PSIG	2"
RAD64003892	425-50-510P	0-50 PSIG	2½"
Heavy-Duty, Stainless Steel Diaphragm			
RAD64003896	2500SS-50-510P	0-50 PSIG	2½"
VIC0781-0589	SR461B-510	2-40 PSIG	2½"
Heavy-Duty Edge[®], High Capacity			
VIC0781-5135	ESS4-40-510LP	2-40 PSIG	1½"

3. Change from Acetylene to Propylene Tips

Cutting

If You Used:				Change to:				and Use These Setting	
1-101				GPP				Oxygen (PSIG)	Fuel Gas (PSIG)
Size	Metal Thickness	Victor [®] Part #	Radnor [®] Part #	Size	Metal Thickness	Victor [®] Part #	Radnor [®] Part #		
00	¼"	VIC0330-0004	RAD64003605	00	¼"	VIC0333-0261	RAD64003702	20-25	3-5
0	⅜" - ½"	VIC0330-0012	RAD64003606	0	⅜" - ½"	VIC0333-0262	RAD64003705	20-30	3-5
1	¾"	VIC0330-0005	RAD64003607	1	¾"	VIC0333-0263	RAD64003706	30-35	4-6
2	1" - 1½"	VIC0330-0006	RAD64003608	2	1" - 1½"	VIC0333-0264	RAD64003707	35-45	4-9
3	2" - 2½"	VIC0330-0002	RAD64003609	3	2" - 2½"	VIC0333-0265	RAD64003708	40-50	5-10
4	3"	VIC0330-0007	RAD64003610	4	3"	VIC0333-0266	RAD64003715	45-50	8-12
5	4" - 5"	VIC0330-0008	RAD64003611	5	4" - 5"	VIC0333-0267	RAD64003716	45-55	8-12
6	6" - 8"	VIC0330-0009	RAD64003612	6	6" - 8"	n/a	RAD64003717	45-65	10-15

If You Used:				Change to:				and Use These Settings	
6290				6290-NXP				Oxygen (PSIG)	Fuel Gas (PSIG)
Size	Metal Thickness	Harris [®] Part #	Radnor [®] Part #	Size	Metal Thickness	Harris [®] Part #	Radnor [®] Part #		
00	⅜" - ⅝"	HCL1500820	RAD64003236	00	⅜" - ⅝"	HCL1502152	RAD64003272	20-30	5-15
0	⅝" - ⅞"	HCL1500830	RAD64003237	0	⅝" - ⅞"	HCL1502154	RAD64003273	30-40	5-15
1	⅞" - 1"	HCL1500840	RAD64003238	1	⅞" - 1"	HCL1502156	RAD64003274	35-50	5-15
2	1" - 2"	HCL1500850	RAD64003239	2	1" - 2"	HCL1502158	RAD64003275	40-55	5-15
3	2" - 3"	HCL1500860	RAD64003240	3	2" - 3"	HCL1502160	RAD64003276	45-60	5-15
4	3" - 6"	HCL1500870	RAD64003241	4	3" - 6"	HCL1502162	RAD64003277	50-75	5-15

Note: Harris fuel gas settings are for use with "equal pressure" cutting attachments like 73-3 & 72-3.

Heating

If You Used:			Change to:	
MFA			Type 55	
Size	Victor [®] Part #	Radnor [®] Part #	Size	Victor [®] Part #
6	VIC0323-0251 or VIC0087-0061	N/A	6	VIC0323-0327
8	VIC0323-0252 or VIC0087-0062	RAD64003746	8	VIC0323-0328
10	VIC0323-0253 or VIC0087-0063	RAD64003747	10	VIC0323-0324



Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

MRO Supplies

Safety

Index

Product Index

Aa

Air Carbon Arc Gouging Machines.....	29
Air Purifying Respirators (APR) ..	119-120
Anti-Spatter.....	58
Aprons, Leather.....	139
Arc Gouging.....	52,53

Bb

Back Caps, TIG.....	48
Back Supports.....	137
Bandages.....	146
Bandanas/Headbands/Tie Hats.....	143
Batteries.....	149
Boots.....	144
Brazing	
Outfits.....	7
Tips.....	18
Brushes	
Cup.....	103
Hand.....	104
Wheel.....	102
Burn Relief Products.....	146

Cc

C-Clamps.....	65
Cables	
Connectors.....	56
Covers.....	41,66
Cutter.....	57
Hitch.....	57
Lugs.....	54
Plugs.....	56
Sockets.....	56
Welding.....	57
Canister, Rod.....	66
Caps and Hats.....	109
Caps, Welding.....	143
Carbon Arc Gouging.....	29,52,53
Cartridges	
3M™ Respirators.....	119
North Respirators.....	120
Check Valves.....	24
Chipping Hammers.....	64
Chisels.....	64
Clamps	
C-Clamps.....	65
Ground.....	55
Welding.....	65
Cleaners	
Hand.....	147
Welding.....	59

Coated	
Abrasives.....	97-101
Cut Resistant Gloves.....	133
Gloves.....	131,132
Cold Packs.....	146
Collet Bodies, TIG.....	49
Collets, TIG.....	48
Connectors	
Cable.....	56
Whip.....	56
Contact Tips, MIG.....	35,38-41
Cover Plates and Lenses.....	111-113
Coveralls.....	138,141
Crimping Tool.....	57
Cup Brushes.....	103
Cut-Off	
Machine.....	84
Wheels.....	84,94,95
Cutters, Mag Drills.....	89
Cutting and Welding Outfits.....	2-5,7
Cutting	
Attachments.....	14,15
Outfits.....	6
Tips.....	16,17
Wheels.....	93
Cylinder Adapters and Fittings.....	24

Dd

Deburring Tool.....	63
Depressed Center Wheels.....	93,96
Developers.....	59
Diffusers, MIG.....	37-41
Disposable	
Apparel.....	138
Earplugs.....	116,117
Gloves.....	136
Respirators.....	118
Dressings, Burn.....	146
Drill Bits.....	85
Drivers Gloves.....	129,130
Duct Tape.....	151

Ee

Ear Clamps.....	55
Earmuffs.....	117
Earplugs.....	116
Edge™ Regulators.....	10
Electrode Holders.....	54
Electrodes, Tungsten.....	42,43
Engine Drives.....	28,29
Extension Cords.....	92
Extinguishers, Fire.....	150
Eyewash Products.....	148
Eyewear and Accessories.....	108

Ff

Faceshields/Windows/Visors.....	114,115
Fall Protection.....	124-127
Ferrules.....	21
Fiber Discs.....	97,98
File, Half-Round.....	66
Filler Metals.....	67-83
Fire Extinguishers.....	150
First Aid	
Kits.....	145
Products.....	146
Flap Discs.....	99-101
Flashback Arrestors.....	25
Flashlights.....	149
Flint Spark Lighter.....	26
Flowgauges, Flowmeters and Kits ..	12,13
Flux Cored Wire (FCAW).....	80-83
FR Clothing.....	140
FR/Arc Flash Clothing.....	141

Gg

Galvanizing Spray.....	59
Gas Equipment.....	1-27
Gauges, Weld.....	62
General Purpose Coated Gloves.....	131,132
Gloves.....	128-136
Coated.....	132
Coated Cut Resistant.....	133
Disposable.....	136
Drivers.....	129,130
General Purpose Coated.....	131,132
KEVLAR®.....	133
Latex.....	136
Leather Palm.....	129
Mechanics.....	130
MIG/TIG Welders.....	135
Nitrile.....	131,136
PVC.....	136
TIG/MIG Welders.....	135
Welders.....	134,135
Goggles, Welding.....	110
Gouging Machines.....	29
Gouging Torches.....	52,53
Grinders	
Angle.....	90-91
Tungsten.....	44
Grinding Wheels.....	93,94
Ground Clamps.....	55
Hh	
Hammers, Chipping.....	64
Hand Cleaner.....	147

Hand Pads 106,135
 Hand Protection 128-136
 Coated Cut Resistant Gloves..... 133
 Coated Gloves 132
 Disposable Latex Gloves 136
 Disposable Nitrile Gloves 136
 Drivers Gloves 129,130
 General Purpose Coated Gloves... 131,132
 KEVLAR® Gloves..... 133
 Latex Gloves 136
 Leather Palm Gloves 129
 Mechanics Gloves..... 130
 MIG/TIG Welders Gloves..... 135
 Nitrile Gloves 131,136
 PVC Gloves..... 136
 TIG/MIG Welders Gloves..... 135
 Welders Gloves..... 134,135
 Welding Back Hand Pads..... 135
 Handles, TIG..... 51
 Hard Hat Cooling Pad 143
 Hard Hats and Caps..... 109
 Harnesses 124,126,127
 Head and Face Protection 109-115
 Headbands/Bandanas/Tie Hats..... 143
 Headgear 110-115
 Headlamps 149
 Hearing Protection
 Disposable Earplugs..... 116,117
 Earmuffs 117
 Reusable Earplugs..... 117
 Heat Stress Relief 143
 Heating Nozzles and Tips..... 19
 Helmets, Welding..... 110-113
 High Visibility Vests 142
 Holders, Electrode 54
 Hole Saws 87
 Hoods, Arc Flash 141
 Hose
 Adapters and Fittings 21-23
 Repair Kit..... 21
 Welding..... 20,21
 Hotspotter..... 7

li

Information
 Arc Welding Safety 67
 Fuel Gases..... 1
 Propylene Solutions 27
 Inspection
 Kits..... 59
 Mirrors..... 63
 Instrumentation 122,123
 Insulators, MIG..... 37,38

Jj

Jackets
 FR..... 140
 Leather..... 139

Kk

KEVLAR® Gloves..... 133
 Kits, First Aid..... 145
 Knee Pads 137

LI

Lanyards 124,126,127
 Latex Gloves..... 136
 Leather
 Apparel 139
 Palm Gloves 129
 Lens Cleaning Products 108
 Lenses, Cover Plates 111-113
 Lightnin' Bug Torch Lighter 26
 Liners, MIG..... 36,39-41
 Lugs, Cable and Terminal..... 54

Mm

Machine Plugs, Sockets 56
 Machines..... 29
 Air Carbon Arc Gouging..... 29
 Engine Drives..... 28,29
 Gouging 29
 Plasma Cutting 29
 Wire Feeders 28,29
 Mag Drills..... 88,89
 Mag Tool™ Holders..... 63
 Magnetic Retrieval Tools..... 63
 Markers 60,61
 MasterGage™ Weld Gauge..... 62
 Mechanics Gloves 130
 Medicinals..... 146
 MIG
 Cable Covers..... 41
 Contact Tips 35,38-41
 Diffusers 37-41
 Guns 32-34
 Insulators 37,38
 Liners 36,39-41
 Nozzles 36,38-41
 Retainers 40,41
 MIG Wire (GMAW) 75-79
MRO Supplies 84-107

Nn

Nitrile Gloves 131,136
 Nitrogen Purging Regulators 11
 Nozzle
 Gel 58
 Reamer 66
 Nozzles
 MIG..... 36,38-41
 TIG 50,51

Oo

Ointment, Triple Antibiotic 146
 Outfits
 Cutting..... 6
 Cutting and Welding 2-5
 Cutting, Weld and Brazing..... 7
 Harris® Style 3,4,6
 Smith 4
 Victor® Style..... 2,3,5-7

Pp

Paint Markers and Pens 60,61
 PAPR Respirators..... 121
 Pencil, Welders 60
 Penetrants..... 59
 Personal Fall Limiter (PFL)..... 126
 Pick Set..... 63
 Pilot Drills 87
 Pilots, Mag Drills 89
 Plasma
 Consumables 31
 Cutting Machines..... 29
 Torches 30
 Pliers 66
 Plugs..... 56
 Pocket Scribes 60
 Power Cords 92
 Pressure Gauges..... 11
 Protective Workwear
 Back Supports..... 137
 Footwear 144
 Knee Pads 137
 Rainwear 144
 Wrist Supports 137
 PVC Gloves..... 136

Qq

Quick Connect Sets 25

Gas
Equipment

Welding &
Cutting Equipment

Welding
Support

Filler Metals

MRO Supplies

Safety

Index

Product Index

Rr

Rainwear	144
Readers, Eyewear	108
Reciprocating Saw and Blades	86
Regulators	8-13
Respiratory Protection	
Accessories	120
Air Purifying Respirators (APR)	119,120
Disposable Respirators	118
PAPR Respirators	121
Supplied Air Respirators	121
Retainers, MIG	40,41
Reusable Earplugs	117
Rod Canisters	66

Ss

S Markers	61
Safety	108-151
Barricade Tape	149
Batteries	149
Disposable Clothing	138
Disposable Earplugs	116,117
Disposable Respirators	118
Earmuffs	117
Eyewear	108
Fall Protection	124-127
Fire Extinguishers	150
Flashlights	149
FR Clothing	140
FR/Arc Flash Clothing	141
High Visibility Vests	142
Instrumentation	122,123
Leather Clothing	139
Polyfilms	151
Protective Workwear	137,144
Respiratory Protection	119-121
Reusable Earplugs	117
Safety Cabinets and Cans	150
Sorbents	151
Spill Kits	151
Tapes	149,151
Saw Arbors	87
Saw Blades	85,86
Scribes	60
Self-Retracting Lifelines	125,127
Shoe Protectors, Leather	139
Skin Care Products	147
Sleeves	
FR	140,141
Leather	139
Soapstone	60
Sockets	56
Solvents	59
Sorbents	151

Stick Electrodes (SMAW)	68-72
Supplied Air Respiratory Systems	121
Supports	
Back	137
Wrist	137
Sweatbands	143
Switches, TIG	51

Tt

Tank Wrenches	26
Tape	
Barricade	149
Duct	151
Terminal Lugs	54
Tie Hats/Bandanas/Headbands	143
TIG	
Back Caps	48
Collet Bodies	49
Collets	48
Handles	51
Nozzles	50,51
Rods (GTAW)	73,74
Switches	51
Torches	45-47,51
Tip	
Cleaners	26
Drill Kit	26
Tools	
Chipping Hammers	64
Chisels	64
Clamps	65
Crimping	57
Deburring	63
File	66
Hand	105-107
Inspection Mirrors	63
Mag Tool Holder	63
Magnetic Retrieval	63
Nozzle Reamer	66
Pick Sets	63
Pliers	66
Weld Gauge	62
Torch	
Handles	14,15
Kit	5,6
Lighter	26
Mixer	19
Torches	
Cutting	15
Gouging	52,53
TIG	45-47,51
Totes, Fuel	7
Tungsten	
Grinders	44
Electrodes	42,43

Totes	43
TurboTorch®	5
Tyvek™ Coveralls	138

Uu

Utility Knife and Blades	86
--------------------------------	----

Vv

Vests, High Visibility	142
Visors/Windows/Faceshields	114,115

Ww

Weld Fillet Gauges	62
WelderHelper™ Pliers	66
Welders Gloves	134,135
Welding	
Accessories	110-113
Cable	57
Caps	143
Chemicals	58,59
Clamps	65
Gauges	62
Goggles	110
Hand Pads	135
Helmets	110-113
Holders	63
Hose	20,21
Inspection Mirrors	63
Tips	18
Tools	62,63
Welding and Cutting Equipment	28-31
Welding Support	32-66
Welding Wheel Brushes	102
Wheels	
Cut-Off	94,95
Cutting	93
Depressed Center	93,96
Grinding	93,94
Whip Connectors	56
Windows/Visors/Faceshields	114,115
Wipes	
KRESTO™ KWIK-WIPES	147
Respiratory	120
Scrubbing	147
Wire Feeders	28,29
Wrench, Tank	26
Wrist Supports	137

3M

3M™ 106,108,113,116,117,121

Aa

AlcoTec 75
 Amerex® 150
 Ansell 131,133,136,141

Arcair

Arcair® 52
 Avesta Welding 72,74,79

Bb

Bernard® 39

 **BOSCH**

Bosch 84,86,90
 Bullard® 121
 Bulwark® 141
 BW Technologies by Honeywell 123

Cc

COREX® 83

Dd

DBI/SALA™ (Also see Protecta™) 124,125

DEWALT

DeWalt® 91
 DuPont™ 138

Ee

Eagle 57

Empire

Empire® 107
 Energizer® 149
 Ergodyne® 137
 ESAB® 68,72,79,81,83

Ff

Fendall 148
 Fibre-Metal® by Honeywell 109,110,115

FLEXOVIT USA INC

Flexovit 96,101

Hh

Harris 18,19
 Hobart® 68-70,77,80,82

Honeywell

Honeywell (See BW Technologies, Fendall,

Fibre-Metal®, Miller®, North, Swift, Uvex®)
 8,10,28,29,112,116,117,120,132,148
 Hougen® 88,89
 Hypertherm® 29

li

Industrial Scientific (ISC) 123

IRWIN
TOOLS

Irwin Tools 107

Jj

Justrite® 150

Kk

Kimberly-Clark* 110,113,114

KLEIN
TOOLS 

Klein Tools® 105
 Kobelco 83

LI

LaCrosse® 144

LENOX 

Lenox 86,87
 Lincoln Electric® 28,29,68-70,72,75,
 77,79,81,83

Mm

McKay 72,82
 MCR Safety 144
 Metabo 91
 Miller® 28,29,40,112
 Miller® by Honeywell 127
 Moldex® 116

MSA
The Safety Company

MSA 109,122,126

Nn

National Safety Apparel (NSA®) 141
 Nissen 60
 North by Honeywell 120

NORTON
SAINT-GOBAIN

Norton 84,96,98,100,106

Oo

OccuNomix 137,142,143

OETIKER
Connecting Technology

Oetiker 55

Pp

Protecta™ 124,125


PROTECTIVE INDUSTRIAL PRODUCTS

Protective Industrial Products (PIP) 131

Rr

RADNOR

Radnor® 2-4, 6-9,11-17, 19-21,
 25,26, 32,34-38,40-66,68,69,
 72-75,79,80,82,84-87,92-95,97,99,100,
 102-104,108,110,111,115,116,120,
 128-132,136,138-140,142,144,145,149

Ss

Sandvik 74,79
 Showa® Best® Glove 132,133
 Smith Equipment 4,17-19
 SPC (a Brady® Business) 151
 Stanco Safety Products 141
 Streamlight® 149

SUMNER

Sumner® 107

Tt

Thermal Dynamics® 29
 Tillman™ 130
 Tri-Mark 83
 TurboTorch® 5

Tweco

Tweco® 54-56

Uu

Uvex® by Honeywell 108

Vv

VICTOR

Victor® 5,10,15,17-19

Ww

Weiler Corporation 102,103
 Western Enterprises 7,21,25


WRIGHT TOOL
PERFECTING PERFORMANCE

Wright Tool 106

Gas Equipment
 Welding & Cutting Equipment
 Welding Support
 Filler Metals
 MRO Supplies
 Safety
 Index

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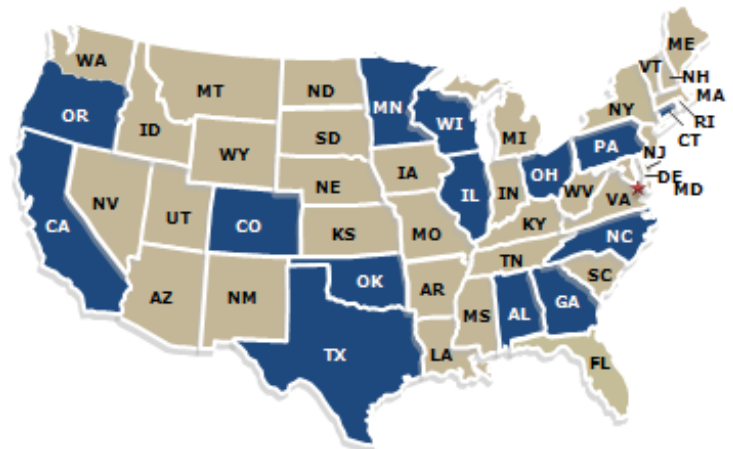
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