



**GAS
EQUIPMENT**



**ARC
ACCESSORIES**



**FILLER
METALS**



**WELDING
ACCESSORIES**



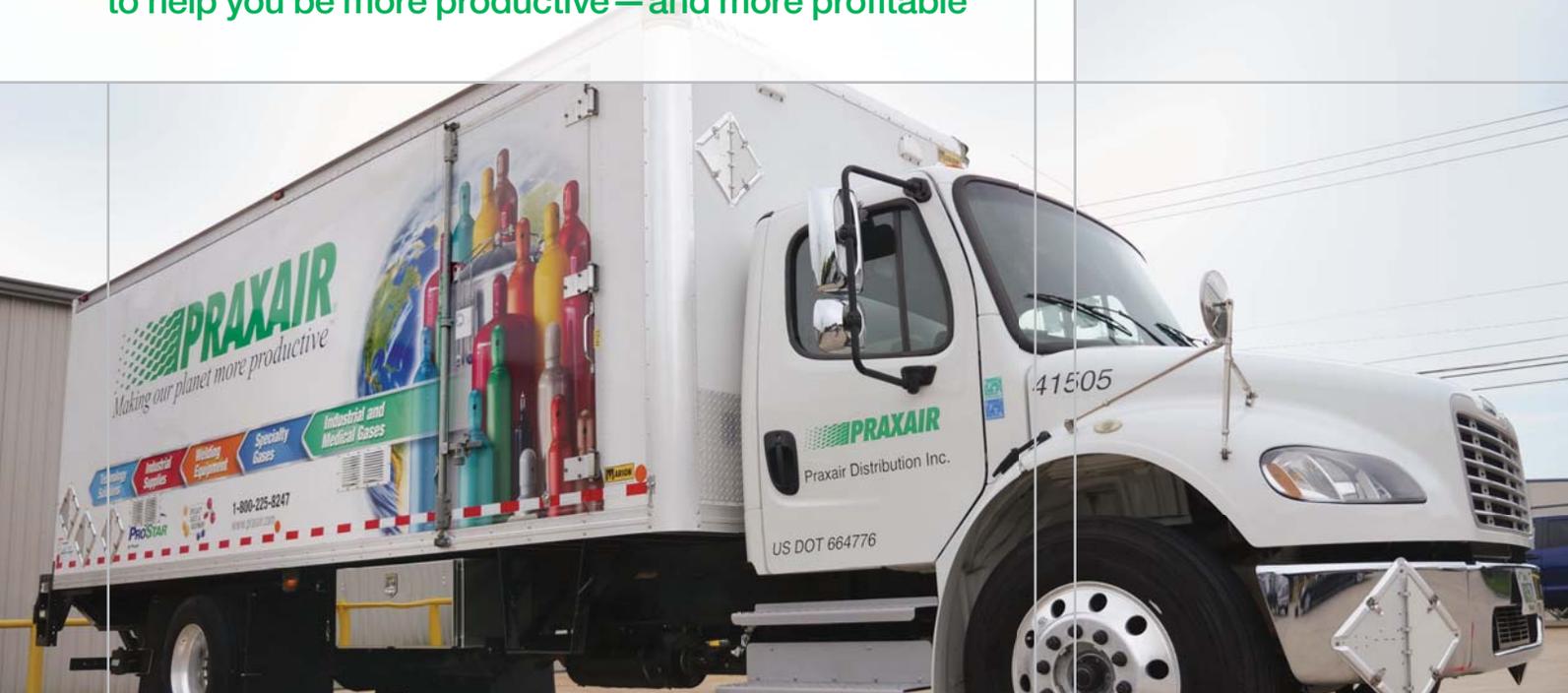
**SAFETY
PRODUCTS**



ProStar Product Guide
Welding, Cutting, and Safety Products

Need Supplies? Praxair Delivers.

High-quality welding equipment, supplies, and solutions to help you be more productive — and more profitable



We are Praxair, a Fortune 300 corporation with 26,000 employees in more than 50 countries. For over 100 years, customers have turned to Praxair for our quality products, expertise, dependability, and consistency.



Making our planet more productive™

GLOBAL LEADER IN INDUSTRIAL GASES

Fabricators and manufacturers worldwide rely on Praxair's pure gases and blends. We also supply fabrication products and equipment for most industrial applications. As an engineering firm, Praxair builds and installs custom-designed productivity solutions to help our customers do business more profitably.



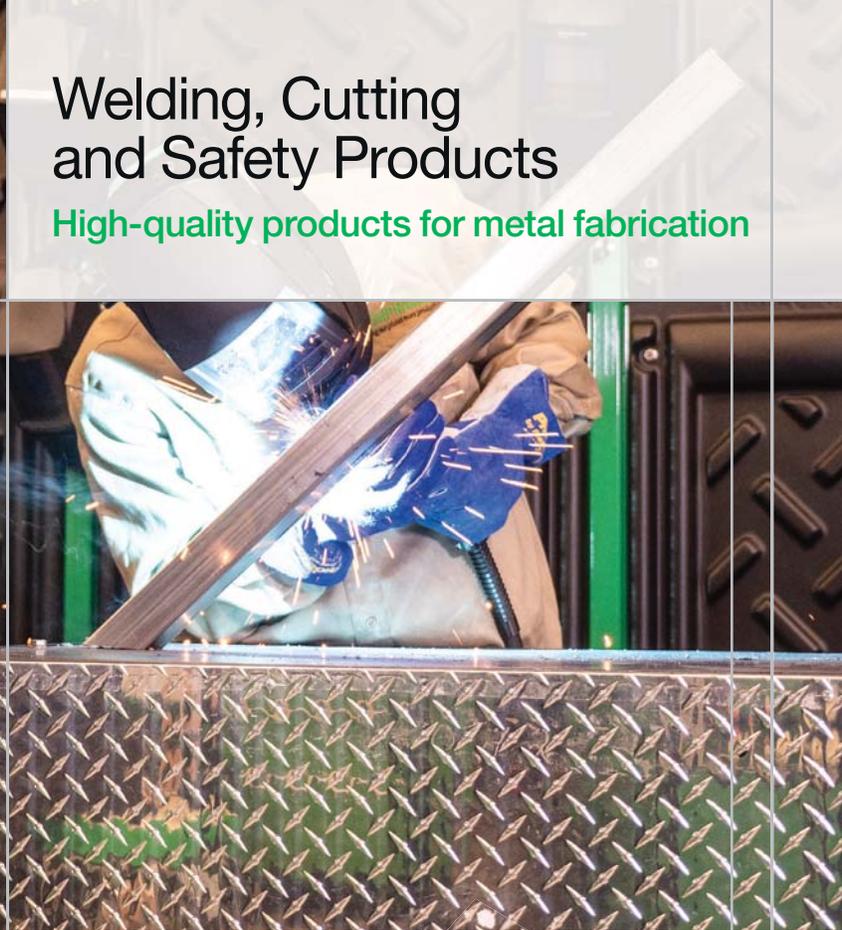
by Praxair

QUALITY FABRICATION PRODUCTS & EQUIPMENT

- Arc Accessories
- Filler Metals
- Gas Apparatus
- Safety Equipment
- Personal Protective Equipment
- Welding Accessories
- Chemicals
- Welding Consumables
- Abrasives
- Cutting Automation

Welding, Cutting and Safety Products

High-quality products for metal fabrication



QUALITY • AVAILABILITY • VALUE

They're all synonymous with Praxair's ProStar line of leading name metal fabrication products.

Ask for ProStar™ welding and cutting products.

GAS EQUIPMENT

ARC ACCESSORIES

FILLER METALS

WELDING ACCESSORIES

SAFETY PRODUCTS





StarDirect™ Distribution Network

- Over 250,000 square feet of warehouse space in 12 strategically located distribution centers across North America
- Over 30,000 items stocked at all times, from more than 200 of the best manufacturers
- Instant, accurate order processing and tracking
- Your order is filled directly from our shelves and shipped the same day when ordered before 4 p.m.
- Automated selection of transport method for efficiency and value
- Web-based ordering through your Praxair Express™ account

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Gas apparatus designed
for optimal performance,
safety, and reliability

Welding & Cutting Outfits

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Oxy-Fuel Gas Cutting



Oxy-fuel gas cutting

The oxy-fuel gas cutting process severs metal by utilizing the chemical reaction of oxygen with metal at elevated temperatures. The required temperature is provided by the combustion of a fuel gas and oxygen (minimum 99.5% purity). The cutting action is supported by a pure oxygen stream.

The torch used in the cutting process produces the preheating flame by mixing fuel gas with oxygen in the correct proportions to support combustion. It also provides a concentrated stream of pure oxygen to the base plate. This oxygen oxidizes the hot metal and removes it from the joint area.

Depending on the fuel gas selected and the particular application, different cutting tips and torch mixing chambers are used. Among the fuel gases used are acetylene, *StarFlame™ C*, propylene, propane, and natural gas.

WHY USE OXY-FUEL GAS CUTTING?

- Steel can generally be cut faster when compared to mechanical means
- Basic manual equipment is low cost, very portable, versatile and safe to use
- Thick and thin plates can be cut rapidly with mechanized systems
- Economical method of plate edge preparation for bevel operations
- Can be used to easily cut rusty and/or scaled plate
- Only moderate skills needed to produce acceptable results

LIMITATIONS

- Dimensional tolerances are not as precise when compared with plasma or laser cutting
- Limited to cutting carbon and cast steels
- Hardenable and other specialty alloy materials may require preheat, post-heat, or both upon completion of the cutting process. For optimum performance, cutting tips must be closely matched to the base material thickness being cut.

Recommended Operational Guidelines

HAND CUTTING OPERATING RANGES

Plate Thickness in	Cutting Speed ipm	Oxygen Preheat psig	Oxygen Cut Flow cfh	Oxygen Pressure psig	Fuel Flow cfh	Fuel Pressure psig	Cut Kerf in	Cutting Range
1/8	20 – 30	5 – 6	20 – 25	20 – 25	6 – 11	3 – 5	0.04	
1/4	20 – 28	5 – 7	30 – 35	20 – 25	6 – 11	3 – 5	0.05	
3/8	18 – 26	8 – 10	55 – 60	25 – 30	6 – 11	3 – 5	0.06	
1/2	16 – 22	8 – 10	60 – 65	30 – 35	8 – 13	3 – 7	0.06	
3/4	15 – 20	10 – 12	80 – 85	30 – 35	9 – 16	3 – 7	0.07	
1	13 – 18	12 – 15	140 – 160	35 – 40	10 – 18	3 – 7	0.09	
2	10 – 12	14 – 18	210 – 240	40 – 45	14 – 25	4 – 8	0.11	
3	10 – 12	16 – 20	280 – 320	40 – 45	18 – 28	5 – 11	0.12	
4	6 – 9	20 – 30	390 – 450	45 – 55	20 – 30	6 – 13	0.15	
6+*	4 – 6	25 – 35	500 – 600	30 – 40	22 – 30	8 – 14	0.15	

*3/8" inside diameter (ID) minimum hose requirement

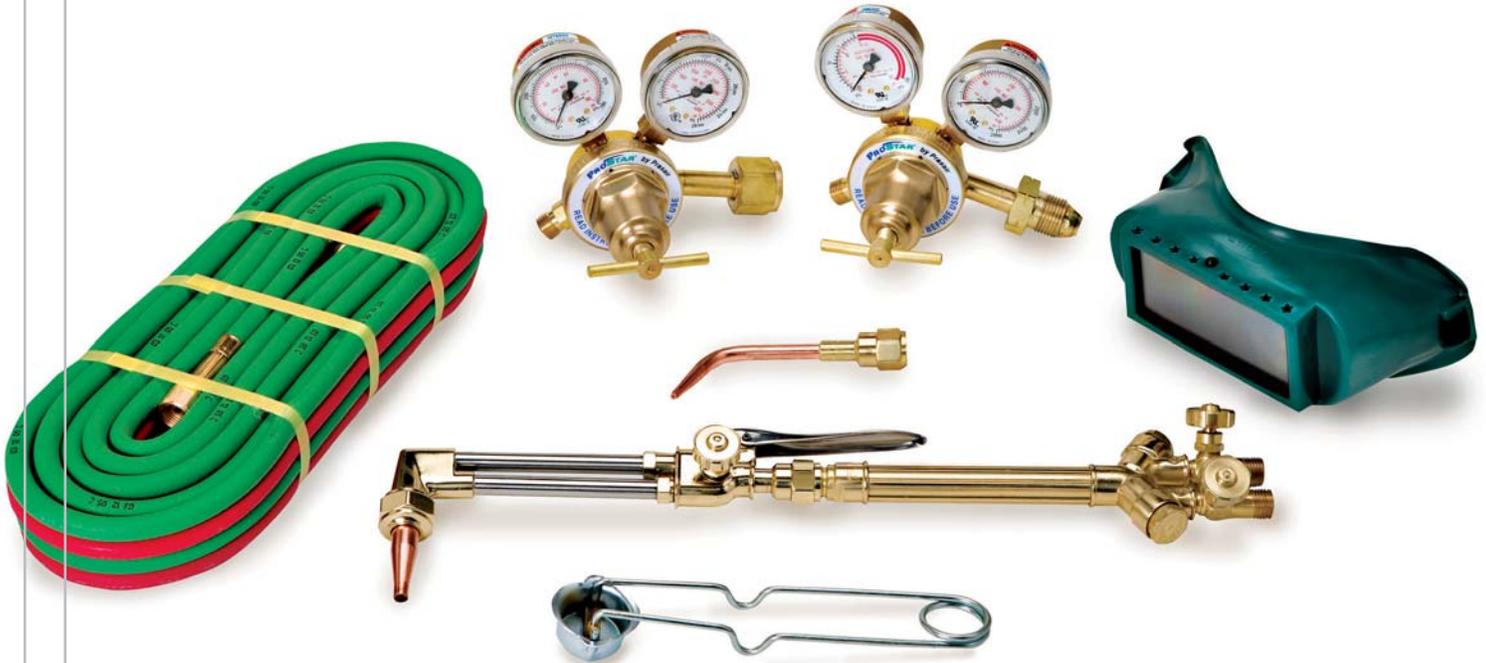
MACHINE CUTTING OPERATING RANGES

Plate Thickness in	Cutting Speed ipm	Oxygen Preheat psig	Oxygen Cut Flow cfh	Oxygen Pressure psig	Fuel Flow cfh	Fuel Pressure psig	Cut Kerf in	Tip
3/8	22 – 29	25 – 45	68 – 75	85 – 95	6 – 11	5 – 10	0.05	00
1/2	20 – 28	45 – 65	110 – 120	85 – 95	8 – 13	5 – 10	0.06	0
3/4	18 – 26	45 – 75	110 – 120	85 – 95	9 – 16	5 – 10	0.06	0
1	17 – 24	75 – 100	145 – 160	85 – 95	10 – 18	5 – 10	0.07	1
2	11 – 15	90 – 110	230 – 250	85 – 95	14 – 25	7 – 12	0.09	2
3	9 – 11	90 – 110	230 – 250	85 – 95	18 – 28	7 – 12	0.09	2
4	7 – 10	100 – 120	285 – 320	85 – 95	22 – 35	7 – 12	0.11	3
6+	4 – 7	100 – 120	285 – 320	85 – 95	27 – 37	10 – 15	0.11	3
8+	4 – 6	110 – 130	390 – 450	85 – 95	25 – 65	10 – 15	0.14	4
10+	3 – 5	120 – 140	670 – 720	85 – 95	25 – 65	10 – 15	0.18	5

STAY SAFE WHEN USING OXY-ACETYLENE

- Always wear the proper welding goggles, gloves, and clothing.
- Always use the proper regulator for the gas in the cylinder.
- Always close the cylinder valves and replace cylinder caps when finished using cylinders.
- Always conduct a risk assessment before welding or cutting, and have a fire extinguisher handy.
- Store and use cylinders in the upright position, and never store cylinders in temperatures over 125 °F (52 °C).
- Remove lighters or matches from pockets when welding or cutting.
- Ensure welding hoses do not touch the torch flame or sparks when cutting.
- When using a torch, always be aware of others near you.

ProStar™ Welding & Cutting Outfits



Medium duty outfit PRS21505 shown.

ProStar Cutting and Welding Outfits Come with Everything You Need to Get the Job Done—Just Add Gas!

ProStar Medium Duty Outfits

Part No.

PRS21505, PRS21512 – WQ style

Designed to meet medium duty welding and cutting applications in industry, home and trade environments. 2" (50 mm) gauges on the regulators with "T" bar adjusting knob provides quick reference and easy use.

CAPACITY

Cuts up to 1/2" (12 mm). Can cut up to 5" (12 cm) with larger capacity cutting tip. Welds up to 5/64" (2 mm). Can weld up to 1-1/4" (31 mm) with optional, larger capacity welding nozzle.

ProStar Heavy Duty Welding Outfit

Part No.

PRS21506

Designed for heavy duty welding and cutting applications in industrial and construction environments. Easy-to-read 2-1/2" (63 mm) gauges on the regulators with "T" bar adjusting knob allows for quick reference and easy use.

CAPACITY

Cuts up to 3/4" (19 mm). Can cut up to 8" (20 cm) with larger capacity cutting tip. Welds up to 1/8" (3 mm). Can weld up to 3" (7 cm) with optional, larger capacity welding nozzle.

ProStar™ Welding & Cutting Outfits → *continued*

Medium Duty Welding/Cutting Outfit	Heavy Duty Welding/Cutting Outfit	Portable Welding Outfit
PRS21505, PRS21512 (WQ Style)	PRS21506	PRS21508, PRS21509
Components		
<ul style="list-style-type: none"> • Medium duty 250-80-540 and 250-15-510 regulators with 2" (50 mm) gauges • Built-in flashback arrestors and reverse-flow check valves • Welding nozzle • Medium duty torch handle • Cutting attachment • 0-3-101 cutting tip • 20' (6.1 m) T-grade twin hose • Goggles and striker 	<ul style="list-style-type: none"> • Heavy duty 350-15-510 and 350-125-540 regulators with 2-1/2" (63 mm) gauges • Built-in flashback arrestors and reverse-flow check valves • Welding nozzle • Heavy duty torch handle • Cutting attachment • 1-1-101 cutting tip • 25' (7.6 m) T-grade twin hose • Goggles and striker 	<ul style="list-style-type: none"> • Light duty 150-60-540 and 160-15-200 regulators with 2" (50 mm) gauges • Built-in flashback arrestors and reverse-flow check valves • Welding nozzle • Welding torch • 0-3-101 cutting tip • Portable rugged molded plastic carrying case with built-in storage compartment • 12-1/2' (3.8 m) T-grade hose • Goggles and striker

Productivity Features

- Handles and cutting attachments designed for use with any fuel gas
- Higher capacities can be achieved with larger welding nozzles, cutting tips, or heating heads
- Switch fuel gas without changing the hose

SUPERIOR PERFORMANCE
2-YEAR WARRANTY

ProStar Portable Welding Outfits

Part No.	Description
PRS21508*	20 cf (0.56 m ³) oxygen cylinder 10 cf (0.28 m ³) acetylene cylinder
PRS21509	Without cylinders

* Gas contents sold separately

Convenience and portability in one package!
Ideal cutting, welding and brazing outfit for HVAC, plumbing, and other light duty applications.

Capacity

Cuts up to 1/2" (13 mm). Welds up to 1/8" (3.2 mm).

- Comes with built-in storage compartment
- Goggles and striker

Portable welding outfit
PRS21508 shown.



ProStar™ Regulators & Gauges



PRS23500

ProStar Regulators & Flow Gauges Feature:

- Solid brass and stainless steel construction
- Argon, argon/CO₂ mix, and CO₂ models
- 10' (3.05 m) hose (optional)
- Victor® compatible
- Two-year warranty

Gas systems require a pressure regulator to reduce the high pressure in the cylinder down to the working pressure.



PRS23501



PRS23508



PRS23510



PRS23512

Part No.	Model	Outlet Pressure (psig)	Inlet Fitting	Gas Service	Outlet Fitting
PRS23500	AF150-580	0 – 40	580	Argon, Nitrogen, Helium	5/8-18 UNF X 1/4-18 NPT
PRS23501	AF150-580 (w/ hose)	0 – 40	580	Argon, Nitrogen, Helium	5/8-18 UNF X 1/4-18 NPT
PRS23502	CF153-320 (w/ hose)	0 – 40	320	CO ₂	5/8-18 UNF X 1/4-18 NPT
PRS23503	CF153-320	0 – 40	320	CO ₂	5/8-18 UNF X 1/4-18 NPT
PRS23505	K25-15-510-00	15	510	Acetylene	1/4-18 NPT X 9/16-18 UNF
PRS23506	K25-80-540-06	80	540	Oxygen	1/4-18 NPT X 9/16-18 UNF
PRS23512	350-15-510	15	510	Acetylene	1/4-18 NPT X 9/16-18 UNF
PRS23513	350-125-540	125	540	Oxygen	1/4-18 NPT X 9/16-18 UNF
PRS23508	HRF1425-580 (w/ hose)	27	580	Argon, Nitrogen, Helium	5/8-18 F
PRS23510	HRF1425-580 (w/ hose)	27	580	Argon, Nitrogen, Helium	5/8-18 F
PRS23509	HRF1480-320	80	320	CO ₂	5/8-18 F
PRS23511	HRF1480-320 w/10' (w/ hose)	80	320	CO ₂	5/8-18 F

ProStar™ Replacement Gauges

ProStar Brass Gauges

Suitable for use on oxygen service, medical equipment and other fuel gases that are non-corrosive to brass or bronze and where stem mounting is desired

- Polished drawn brass with one-piece, impact resistant polycarbonate *Posilock* lens
- For use with compressed gas regulators
- UL® listed

Offering long life and safe operation, *ProStar* gauges are an excellent choice for OEM and replacement applications.



Brass Gauges
2-1/2" (63 mm) dia



Brass Gauges
2" (50 mm) dia



Brass Gauges
1-1/2" (38 mm) dia

Part No.	Description
PRS20006	0 – 30 psig redline @ 15 psig
PRS20007	0 – 100 psig
PRS20008	0 – 200 psig
PRS20009	0 – 400 psig
PRS20010	0 – 4000 psig
PRS20012	2-1/2" (63 mm) gauge cover lens

Part No.	Description
PRS20001	0 – 30 psig redline @ 15 psig
PRS20002	0 – 100 psig
PRS20003	0 – 200 psig
PRS20004	0 – 400 psig
PRS20005	0 – 4000 psig
PRS20011	2" (50 mm) gauge cover lens

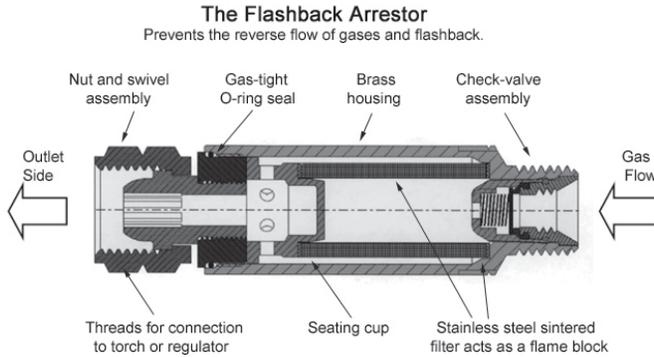
Part No.	Description
PRS20100	0 – 30 psig redline @ 15 psig
PRS20102	0 – 200 psig
PRS20101	0 – 400 psig
PRS20103	0 – 4000 psig
PRS20123	0 – 100 psig
PRS20013	Plastic cover lens

Working Pressure

- Oxygen and fuel gas working pressures should be set according to manufacturer recommendations for the job being performed
- Potential problems with excessive pressure: harsh flame; damaged equipment; increased potential of flashback
- Potential problems with insufficient pressure: insufficient heat; unstable flame; increased plugging of welding or cutting tip

ProStar™ Regulators & Gauges → *continued*

Prevent Flashbacks & Backfire



Flashback occurs when the flame burns inside the torch.

- Flashback is usually accompanied by a shrill hissing or squealing sound
- May have puffs of black smoke coming out of the tip
- Primary cause is a blocked tip and unequal pressures
- A potentially serious condition. If not stopped, the flame can travel up the hose and into the regulator

Backfire is indicated when the torch goes out with a loud “POP.”

- Caused by hot metal in the tip
- The gases rapidly combust inside the tip and cause a burst of high pressure
- When backfire occurs, stop and inspect the tip and clean if necessary



ProStar Balloon Filler

Part No.	Description
PRS23100	Without content gauge
PRS23101	Deluxe with cylinder content gauge
PRS27112	Replacement rubber tilt valve, 1/4" (6.4 mm)

Durable, easy to install and use hand tight inflator. Installation is simple and quick. 3,000 psig maximum inlet pressure. Features tilt valve for fast filling of balloons. Rubber tilt valve is simple to replace if it gets damaged due to excessive wear and tear.

GAS SAFETY TIP

OSHA requires the use of check valves and flash arrestors when manifolding cylinders or torches.



ProStar Flashback Arrestors

Part No.	Description
PRS28100	Torch mount set
PRS28101	Regulator mount set

Designed to stop flashbacks by preventing ignition of mixed gases while protecting equipment such as hoses, regulators and cylinders. Color coded for gas service and added safety: fuel gas—red; oxygen—green. Internal check valves are designed to prevent reverse flow and accidental mixing of oxygen and fuel gases.

Maximum operating pressures are acetylene – 15 psig, other fuel gases – 22 psig, oxygen – 125 psig. Rated flow capacity is 40 scfh with a 5 psig pressure drop. Regulator and torch models provide downstream and upstream protection. 10" (25.4 cm) maximum cutting capacity. UL® listed and 100% tested. B-size 9/16" (14.3 mm) -18 thread.

ProStar™ Check Valves & Quick Connect Sets

ProStar Reverse-Flow Check Valves

FOR TORCH AND REGULATOR APPLICATIONS

Reverse-flow check valves guard against danger caused by plugged tips, over-pressurizing, or incorrect setup. Allows gas to flow in one direction, and prevents the reverse flow of gas. Helps prevent accidents caused by gases mixing in regulators, hoses or cylinders. Machined, high-quality brass with stainless steel operating spring and valve disc. Meets or exceeds CGA and OSHA requirements.



Part No.
PRS28106 Regulator end

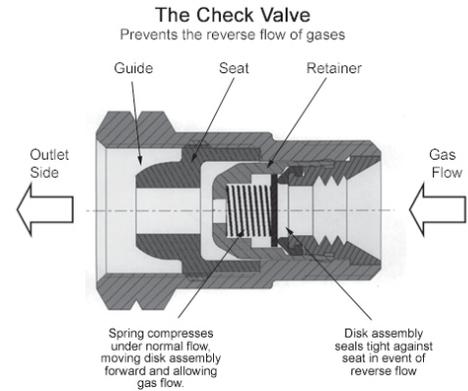
Part No.
PRS28105 Torch end

B-size (9/16"-18) (14.3 mm) easily mounts on outlet bushing of any regulator having a B-size outlet. Same flow capacity as the torch type (1200 scfh at 50 psig) when installed on a regulator. Easy-to-see check valve is less subject to contamination, abuse, damage.

B-size 9/16"-18 (14.3 mm) stops reverse flow at the point of origin. Mounts easily on a torch, is readily seen, and can be removed for periodic testing. Flows cut up to 12" (304.8 mm) steel plate, and handle heating tips (1200 scfh at 50 psig).

Check Valves and Flashback Arrestors

Potential harm from both torch flashbacks and backfires is reduced through the use of check valves and flashback arrestors.



ProStar Quick-Connect Sets

Part No.	Description	Components
PRS28102	Torch-to-hose set	1 fuel gas, 1 oxygen/inert with check valves
PRS28103	Hose-to-hose set	1 fuel gas, 1 oxygen/inert with check valves
PRS28104	Regulator-to-hose set	1 fuel gas, 1 oxygen with check valves

Brass construction provides long service life. Popular quick-connects provide reliable, fast and positive connections and quick disconnections for regulators, hoses, and torches on welding equipment. Instant connections speed up setup and teardown. Color coded for gas service and additional safety: fuel gas—red; oxygen/inert—green. Non-interchangeable fuel gas and oxygen connectors prevent accidental gas mixing. Spring-loaded locking mechanism responds to fingertip action and achieves a gas-tight connection. UL® listed. 200 psig maximum operating pressure.



ProStar™ Torches



All ProStar cutting torches, handles and attachments feature durable brass and stainless steel construction with a threaded assembly design for ease of maintenance and repair.

ProStar 21" (27.9 cm) Straight Cutting Torch

For use with any fuel gas with a minimum pressure of 5 PSIG and above. 90° head angle, tri-tube design. Includes built-in flashback arrestor and reverse flow check valves for added safety. Use series 1 cutting tips. Cutting capacity 1/8" (3.3 mm) to 5" (12.7 cm).

Part No.	Description
PRS22504	21" Straight Cutting Torch

ProStar Cutting Attachments

Cutting attachments come with 90° head, universal mixer for use with any fuel gas, and easy-on cutting oxygen control. Strong tumbled lacquer finish. Interchangeable with Victor® products. Two-year warranty.

ProStar Torch Handles

The oxyfuel torch is the handle for holding and controlling the system. It controls the flow rate of the gases and delivers them to the welding tip or cutting attachment. Torch handle comes with built-in check valves and flashback arrestors for use with any fuel gas. Strong tumbled lacquer finish, smooth valve control. Interchangeable with Victor® products. 2-year warranty.



Part No.	Description
PRS22500	Medium duty V-100 MD
PRS22501	Heavy duty V-315 HD
PRS22502	Medium duty V-1350 MD uses V-100MD handle and Series 3 tips
PRS22503	Heavy duty V-2460 HD uses V-315HD handle and Series 1 tips

ProStar™ Replacement Cutting Torch Tips

Manufactured to Meet the Most Stringent Metal Fabrication Industry Requirements

ProStar replacement torch tips are carefully designed to fit most manufacturers' styles for use in common or special applications.

*Airco® Harris® Purox®
Smith® Victor®*



GAS EQUIPMENT

GENERAL CUTTING TIP OPERATING RANGES

Material Thickness in (mm)	Recommended Tip No.	Drill Size	Oxygen Pressure (psig)	Fuel Gas Pressure (psig)	Cutting (ipm)
1/8 (3.2)	00	68	20-25	3-5	27-30
1/4 (6.3)	0	60	25-30	3-5	26-29
1/2 (12.7)	1	56	30-35	3-5	20-24
3/4 (19.0)	1	56	30-35	3-5	17-21
1 (25.4)	2	54	34-40	3-7	14-18
1-1/2 (31.8)	2	54	40-45	3-7	13-17
2 (50.8)	3	52	40-45	5-10	12-15
4 (101.6)	3	49	40-50	5-10	8-11
5 (127.0)	4	44	45-55	6-11	7-9
6 (152.4)	6	38	45-55	7-13	6-8
8 (203.2)	6	31	45-55	8-14	5-6
10 (254.0)	7	28	45-55	10-15	4-5
12 (304.8)	8	20	45-55	10-15	3-4

All data are approximate for estimating purposes and will vary due to materials, working conditions and operator skill and experience.

Selecting the Right Tip

1-PIECE TIP VS. 2-PIECE TIP

When using Acetylene as a fuel gas, always use a one-piece tip. When using other fuel gases, a two-piece tip provides the most efficient operation for normal cutting.

CHOOSE PREHEAT CAPACITY

The choice of tip depends on preheat capacity; rust and scale coated steel, as well as bevel cutting, requires heavy preheat.

CHOOSE TIP SERIES

Select the size recommended for the thickness of steel to be cut; oversized tips waste gas; use the oxygen pressure recommended for the tip.

ProStar™ Cutting Torch Tips → *continued*

Harris® Style Cutting Tip 6290



Tip Series	6290 (1 pc)	Metal Thickness	
Gas Selection	Acetylene		
Tip Size	Part No.	in	mm
00	PRS6290-00	3/8	9.5
0	PRS6290-0	5/8	15.9
1	PRS6290-1	1	25.4
2	PRS6290-2	2	50.8
3	PRS6290-3	3	76.4
4	PRS6290-4	6	152.4
5	PRS6290-5	8	203.2
6	PRS6290-6	12	304.8

- Medium preheat, for general hand cutting.
- Use with positive pressure “E” torches



Tip Series	6290NX (2 pc.)	Metal Thickness	
Gas Selection	Propane, Nat. Gas		
Tip Size	Part No.	in	mm
00	PRS6290NX-00	3/8	9.5
0	PRS6290NX-0	5/8	15.9
1	PRS6290NX-1	1	25.4
2	PRS6290NX-2	2	50.8
3	PRS6290NX-3	3	76.4
4	PRS6290NX-4	5	127.0
5	PRS6290NX-5	8	203.2
6	PRS6290NX-6	12	304.8

- Medium preheat
- Hand cutting
- Use with clean plate



Tip Series	6290NFF (2 pc)	Metal Thickness	
Gas Selection	Propane, Nat. Gas		
Tip Size	Part No.	in	mm
0	PRS6290NFF-0	3/8	7.5
1	PRS6290NFF-1	5/8	15.9
2	PRS6290NFF-2	2	50.8
3	PRS6290NFF-3	4	101.6
4	PRS6290NFF-4	7	117.8
5	PRS6290NFF-5	10	254.0
6	PRS6290NFF-6	12	304.8

- Heavy preheat
- Hand cutting
- Use with positive pressure “F” torches



Tip Series	6290VVC (2 pc)	Metal Thickness	
Gas Selection	Propane, Nat. Gas		
Tip Size	Part No.	in	mm
1	PRS6290VVC-1	2	50.8
2	PRS6290VVC-2	4	101.6
3	PRS6290VVC-3	6	152.4
4	PRS6290VVC-4	8	203.2

- Heavy preheat
- High-speed tips
- Use in machine cutting

ProStar™ Cutting Torch Tips → *continued*

Airco® Style Cutting Tips 144 & 164



Tip Series	144 (1 pc)	164 (1 pc)	Metal Thickness	
Gas Selection	Acetylene	Acetylene		
Tip Size	Part No.	Part No.	in	mm
00	PRS144-00		1/8	3.2
0	PRS144-0		1/4	6.3
1	PRS144-1	PRS164-1	1/2	12.7
2	PRS144-2	PRS164-2	1	25.4
3	PRS144-3	PRS164-3	1-3/4	44.4
4	PRS144-4	PRS164-4	2-1/2	63.5
5	PRS144-5		4	101.6
6	PRS144-6		6	152.4

- Medium preheat
- General purpose hand and machine cutting

Purox® Style Cutting Tip 4202



Tip Series	4202 (1 pc)	Metal Thickness	
Gas Selection	Propane, Nat. Gas		
Tip Size	Part No.	in	mm
3	PRS4202-3	1/4	6.3
4	PRS4202-4	1/2	12.7
5	PRS4202-5	1-1/2	38.1
7	PRS4202-7	3	76.2
9	PRS4202-9	6	152.4
11	PRS4202-11	10	254.0

- Medium preheat, hand and machine cutting

Smith® Style Cutting Tips MC12 & SC12



Tip Series	MC12 (1 pc)	Metal Thickness	
Gas Selection	Acetylene		
Tip Size	Part No.	in	mm
1	PRSMC12-1	5/8	15.9
2	PRSMC12-2	1	25.4
3	PRSMC12-3	2	50.8

- Tip MC12 medium preheat
- General tip for hand cutting



Tip Series	SC12 (1 pc)	Metal Thickness	
Gas Selection	Acetylene		
Tip Size	Part No.	in	mm
1	PRSSC12-1	5/8	15.9
2	PRSSC12-2	1-1/4	31.8
4	PRSSC12-4	4	101.6

- Tip SC12 medium preheat
- Hand and machine cutting

ProStar™ Cutting Torch Tips → *continued*

Victor® Style Cutting Tips



Tip Series	1-101 (1 pc)	GPP (2 pc)	GPN (1 pc)	Metal Thickness	
Gas Selection	Acetylene	FG-2	LP & Nat. Gas	in	mm
Tip Size	Part No.	Part No.	Part No.		
000	PRS000-1-101		PRS000-1-GPN	1/8	3.2
00	PRS00-1-101		PRS00-1-GPN	1/4	6.3
0	PRS0-1-101	PRS0-1-GPP	PRS0-1-GPN	1/2	12.7
1	PRS1-1-101	PRS1-1-GPP	PRS1-1-GPN	3/4	19.1
2	PRS2-1-101	PRS2-1-GPP	PRS2-1-GPN	1	25.4
3	PRS3-1-101	PRS3-1-GPP	PRS3-1-GPN	2	50.8
4	PRS4-1-101	PRS4-1-GPP	PRS4-1-GPN	3	76.4
5	PRS5-1-101		PRS5-1-GPN	4	101.6
6	PRS6-1-101		PRS6-1-GPN	6	152.4
7	PRS7-1-101			10	254.0
8	PRS8-1-101			12	304.8

- Medium preheat
- General purpose hand and machine cutting



Tip Series	3-101 (1 pc)	3-GPN (1 pc)	Metal Thickness	
Gas Selection	Acetylene	LP & Nat. Gas	in	mm
Tip Size	Part No.	Part No.		
000	PRS000-3-101		1/8	3.2
00	PRS00-3-101		1/4	6.3
0	PRS0-3-101	PRS0-3-GPN	1/2	12.7
1	PRS1-3-101	PRS1-3-GPN	3/4	19.1
2	PRS2-3-101	PRS2-3-GPN	1	25.4
3	PRS3-3-101	PRS3-3-GPN	2	50.8
4	PRS4-3-101		3	76.4
5	PRS5-3-101		4	101.6

Tip Series	1-118 (1 pc)	Metal Thickness	
Gas Selection	Acetylene	in	mm
Tip Size	Part No.		
0	PRS0-1-118	1/2	12.7
2	PRS2-1-118	1	25.4
4	PRS4-1-118	3	76.4
6	PRS6-1-118	6	152.4

- One-piece bent acetylene cutting tip for de-seaming, scarfing, gouging, weld preparation, removing defective welds, and washing rivets



StarFlame™ C Cutting Fuel

Smooth cuts with no gouge marks or rolled edges.



Burns hotter than other fuel gases, so it cuts quicker.

StarFlame C cutting fuel is more economical, environmentally friendly, and safer than acetylene and other fuel gases. Features include:

- Quicker start-to-steel ignition point at lower cost
- Faster cutting speeds, whether beveling, making sharp turns, or cutting intricate patterns
- Quick, clean piercing
- Minimal slag and weldback from a cleaner flame
- Significantly less smoke and soot
- Reduced potential for torch backfire

StarFlame C cutting gas is available in 5 lb, 25 lb, 50 lb, 60 lb, 100 lb, and 435 lb cylinders and bulk tanks ranging in size from 500 to 10,000 gallon capacities.

Size	Temperature				
	-5 °F	+10 °F	+20 °F	+40 °F	+60 °F
25 lb	8	15	20	31	40
60 lb	14	28	37	56	75
100 lb	19	38	51	77	102
435 lb	42	85	114	171	228
1,000 gal	197	324	512	759	1142

40% Full: multiply by 0.8.
20% Full: multiply by 0.6.

Contact your Praxair representative and request a StarFlame C demo.

PRAXAIR
Making our planet more productive

ProStar™ Gas Hose

Durable ProStar fuel gas and oxygen hose is available in twin fitted hose (fuel gas & oxygen), single fitted hose, or bulk.

GRADE R

Economical welding hose for applications with acetylene fuel gas only, has a non-oil-resistant cover. DO NOT use with any other fuel gas.

GRADE T

Premium quality welding hose for use with all fuel gases and acetylene, has a non-conductive, flame/oil resistant tube and cover.

ProStar™ Twin Fitted Hose					
Part No.	Description	Size (in)	Length (ft)	Fittings	
PRSTR316-12.5BB	Hose, Twin 3/16×12.5BB GR-R PRS	3/16	12.5	BB	
PRSTR316-12.5AB	Hose, Twin 3/16×12.5AB GR-R PRS	3/16	12.5	AB	
PRSTR316-12.5AA	Hose, Twin 3/16×12.5AA GR-R PRS	3/16	12.5	AA	
PRSTR316-25BB	Hose, Twin 3/16×25BB GR-R PRS	3/16	25	BB	
PRSTR316-25AB	Hose, Twin 3/16×25AB GR-R PRS	3/16	25	AB	
PRSTR316-25AA	Hose, Twin 3/16×25AA GR-R PRS	3/16	25	AA	
PRSTR316-50BB	Hose, Twin 3/16×50BB GR-R PRS	3/16	50	BB	
PRSTR316-100BB	Hose, Twin 3/16×100BB GR-R PRS	3/16	100	BB	
PRSTR14-12.5BB	Hose, Twin 1/4×12.5BB GR-R PRS	1/4	12.5	BB	
PRSTR14-25BB	Hose, Twin 1/4×25BB GR-R PRS	1/4	25	BB	
PRSTR14-50BB	Hose, Twin 1/4×50BB GR-R PRS	1/4	50	BB	
PRSTR14-100BB	Hose, Twin 1/4×100BB GR-R PRS	1/4	100	BB	
PRSTR516-50BB	Hose, Twin 5/16×50BB GR-R PRS	5/16	50	BB	
PRSTR516-100BB	Hose, Twin 5/16×100BB GR-R PRS	5/16	100	BB	
PRSTR38-25BB	Hose, Twin 3/8×25BB GR-R PRS	3/8	25	BB	
PRSTR38-50BB	Hose, Twin 3/8×50BB GR-R PRS	3/8	50	BB	
PRSTR38-100BB	Hose, Twin 3/8×100BB GR-R PRS	3/8	100	BB	
PRSTT316-12.5BB	Hose, Twin 3/16×12.5BB GR-T PRS	3/16	12.5	BB	
PRSTT316-12.5AB	Hose, Twin 3/16×12.5AB GR-T PRS	3/16	12.5	AB	
PRSTT316-25BB	Hose, Twin 3/16×25BB GR-T PRS	3/16	25	BB	
PRSTT316-25AB	Hose, Twin 3/16×25AB GR-T PRS	3/16	25	AB	
PRSTT316-50BB	Hose, Twin 3/16×50BB GR-T PRS	3/16	50	BB	
PRSTT316-100BB	Hose, Twin 3/16×100BB GR-T PRS	3/16	100	BB	
PRSTT14-25BB	Hose, Twin 1/4×25BB GR-T PRS	1/4	25	BB	
PRSTT14-50BB	Hose, Twin 1/4×50BB GR-T PRS	1/4	50	BB	
PRSTT14-100BB	Hose, Twin 1/4×100BB GR-T PRS	1/4	100	BB	
PRSTT516-50BB	Hose, Twin 5/16×50BB GR-T PRS	5/16	50	BB	
PRSTT516-100BB	Hose, Twin 5/16×100BB GR-T PRS	5/16	100	BB	
PRSTT38-25BB	Hose, Twin 3/8×25BB GR-T PRS	3/8	25	BB	
PRSTT38-50BB	Hose, Twin 3/8×50BB GR-T PRS	3/8	50	BB	
PRSTT38-100BB	Hose, Twin 3/8×100BB GR-T PRS	3/8	100	BB	

ProStar™ Single Fitted Hose					
Part No.	Description	Size (in)	Length (ft)	Fittings	
PRSSRB14-10IN	Hose, Single 1/4×10' BLACK	1/4	10	Inert	
PRSSRB14-25IN	Hose, Single 1/4×25' BLACK	1/4	25	Inert	
PRSSRB14-50IN	Hose, Single 1/4×50' BLACK	1/4	50	Inert	
PRSSRB14-6IN	Hose, Single 1/4×6' BLACK	1/4	6	Inert	
PRSSGR14-50BB	Hose, Single 1/4×50 GRN GR-R PRS	1/4	50	Inert	



ProStar welding hose cover is colored red for fuel gases, and green for oxygen.

**MEETS OR EXCEEDS
RMA & CGA SPECIFICATIONS**

ProStar™ Bulk Hose		
Part No.	Description	Size (in)
PRSSRG12	Hose, Single 1/2 GRN GR-R	1/2
PRSSRR12	Hose, Single 1/2 RED GR-R	1/2
PRSSTR12	Hose, Single 1/2 RED GR-T	1/2
PRSSBR14	Hose, Single 1/4 BLACK 750'	1/4
PRSSRG14	Hose, Single 1/4 GRN GR-R	1/4
PRSSRR14	Hose, Single 1/4 RED GR-R	1/4
PRSSTR14	Hose, Single 1/4 RED GR-T	1/4
PRSSRG316	Hose, Single 3/16 GRN GR-R	3/16
PRSSRR316	Hose, Single 3/16 RED GR-R	3/16
PRSSTR316	Hose, Single 3/16 RED GR-T	3/16
PRSSRG38	Hose, Single 3/8 GRN GR-R	3/8
PRSSTG38	Hose, Single 3/8 GRN GR-T	3/8
PRSSRR38	Hose, Single 3/8 RED GR-R	3/8
PRSSTR38	Hose, Single 3/8 RED GR-T	3/8
PRSTR14	Hose, Twin 1/4 GR-R	1/4
PRSTT14	Hose, Twin 1/4 GR-T BULK	1/4
PRSTR316	Hose, Twin 3/16 GR-R	3/16
PRSTT316	Hose, Twin 3/16 GR-T	3/16
PRSTR38	Hose, Twin 3/8 GR-R	3/8
PRSTT38	Hose, Twin 3/8 GR-T	3/8
PRSTR517	Hose, Twin 5/16 GR-R	5/16
PRSTT516	Hose, Twin 5/16 GR-T	5/16

ProStar™ Gas Hose Repair Kit

Everything You Need for Quick Repairs

Kit includes nuts, nipples, couplers, splicer, crimping tool and ferrules. Fast, easy, concave crimp ensures strong connections. Convenient plastic case is durable, and includes a full-color label and description chart.

Part No.	Description	
PRS27110	C-5 crimp tool for 1/4" (6.4 mm), ID hose	B-size fittings only, 9/16" (14.3 mm) - 18
PRS27111	C-5 crimp tool for 3/16" (4.8 mm), 1/4" (6.4 mm) ID hose	A-size, 3/8" (9.5 mm) - 24) or B-size, 9/16" (14.3 mm) - 18)



RECOMMENDED SAFETY PRACTICES

The Compressed Gas Association (CGA) 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.

REDUCE POTENTIAL FLASHBACKS

When the torch will not be used for periods in excess of thirty minutes, first shut off the gas at the torch, and last at the regulator or supply source to limit gas permeation through the hose wall. Shutting off the fuel gas at the regulator or supply source first can cause a flashback, damaging the hose and/or regulator. Adequate ventilation must be provided in confined areas where fuel gas is used, in order to prevent accumulation or concentration of gas that could be explosive or harmful to personnel.

WARNING:

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 similar fuel gas. Do not exceed 40 psi delivery pressure.
- Use Grade R, RM or T hose with acetylene. Do not exceed 15 psi delivery pressure.

Hose Type	Temperature Rating		Max WP	
	° Fahrenheit	° Celsius	psi	Mpa
Grade R, RM Twin, Single	-40° to 120°	-40° to 48°	200	1.38
Grade T Twin	-20° to 120°	-28° to 48°	200	1.38
Grade T Twin	-20° to 120°	-28° to 48°	200	1.38
Grade T Single	-50° to 120°	-45° to 48°	200	1.38

Caution: Care should be taken to avoid gouging, dragging, abrading, or otherwise damaging the hose cover, which may also lead to premature hose failure. Do not attempt to repair or re-couple hose assemblies; replace all assemblies that show signs of age or abuse.

ProStar™ Brass Fittings & Adaptors

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

Select an adaptor carefully to ensure that regulators and other equipment are only used 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.



VALVED "Y" CONNECTIONS
B-size F Inlet to B-size M Outlets

Part No.	Description
PRS27101	Acetylene/fuel gases LH
PRS27100	Oxygen RH

Pressures up to 200 psig (1400 kPa). Use with two cutting or welding torches at once. Precision shut-off valves. B-size 9/16" (14.3 mm) - 18 thread.

WARNING:

Adaptors should never be used for a permanent installation. For long-term use, the appropriate CGA regulator should be used on all cylinders and gas systems.



Part No.
PRS27103
From cylinder service
CGA-510 POL acetylene
To regulator service
CGA-520 "B" tank



Part No.
PRS27105
From cylinder service
CGA-200 "MC" acetylene
To regulator service
CGA-510 POL acetylene



Part No.
PRS27107
From cylinder service
CGA-300 acetylene
To regulator service
CGA-510 POL acetylene, 1 pc



Part No.
PRS27108
From cylinder service
CGA-320 carbon dioxide
To regulator service
CGA-580 nitrogen



Part No.
PRS27106
From cylinder service
CGA-510 POL acetylene
To regulator service
CGA-300 acetylene, 1 pc



Part No.
PRS27102
From cylinder service
CGA-510 POL acetylene
To regulator service
CGA-410 acetylene



Part No.
PRS27104
From cylinder service
CGA-520 "B" tank acetylene
To regulator service
CGA-510 POL acetylene



Part No.
PRS27109
From cylinder service
CGA-580 nitrogen
To regulator service
CGA-320 carbon dioxide

**ProStar TIG/MIG Guns,
Torches and Replacement
Parts in a Wide Range of
OEM Styles**

MIG Guns & Consumables

<i>Tweco</i> [®] Style MIG Guns	B2 – B8
<i>Tweco</i> Style MIG Consumables	B9 – B12
<i>Bernard</i> [™] Style MIG Guns	B14 – B15
<i>Bernard</i> Style MIG Consumables	B16 – B18
OEM Conversions & Consumables	B19 – B28

TIG Torches & Consumables

TIG Torches	B29 – B53
TIG Torch Consumables	B54 – B57
TIG Accessories	B58 – B65
Tungsten Electrodes	B66 – B68
Tungsten Electrode Grinders	B69 – B70

Cable & Manual Welding Products

Welding Cable	B71 – B73
Cable Connectors & Lugs	B74
Ground Clamps	B75
Electrode Holders	B76



ProStar™ Tweco® Style MIG Guns & Consumables

ProStar MIG Gun Selector Chart B3

ProStar Replacement MIG Guns B4

ProStar 160 Amp MIG Guns B5

ProStar 280 Amp MIG Guns B6

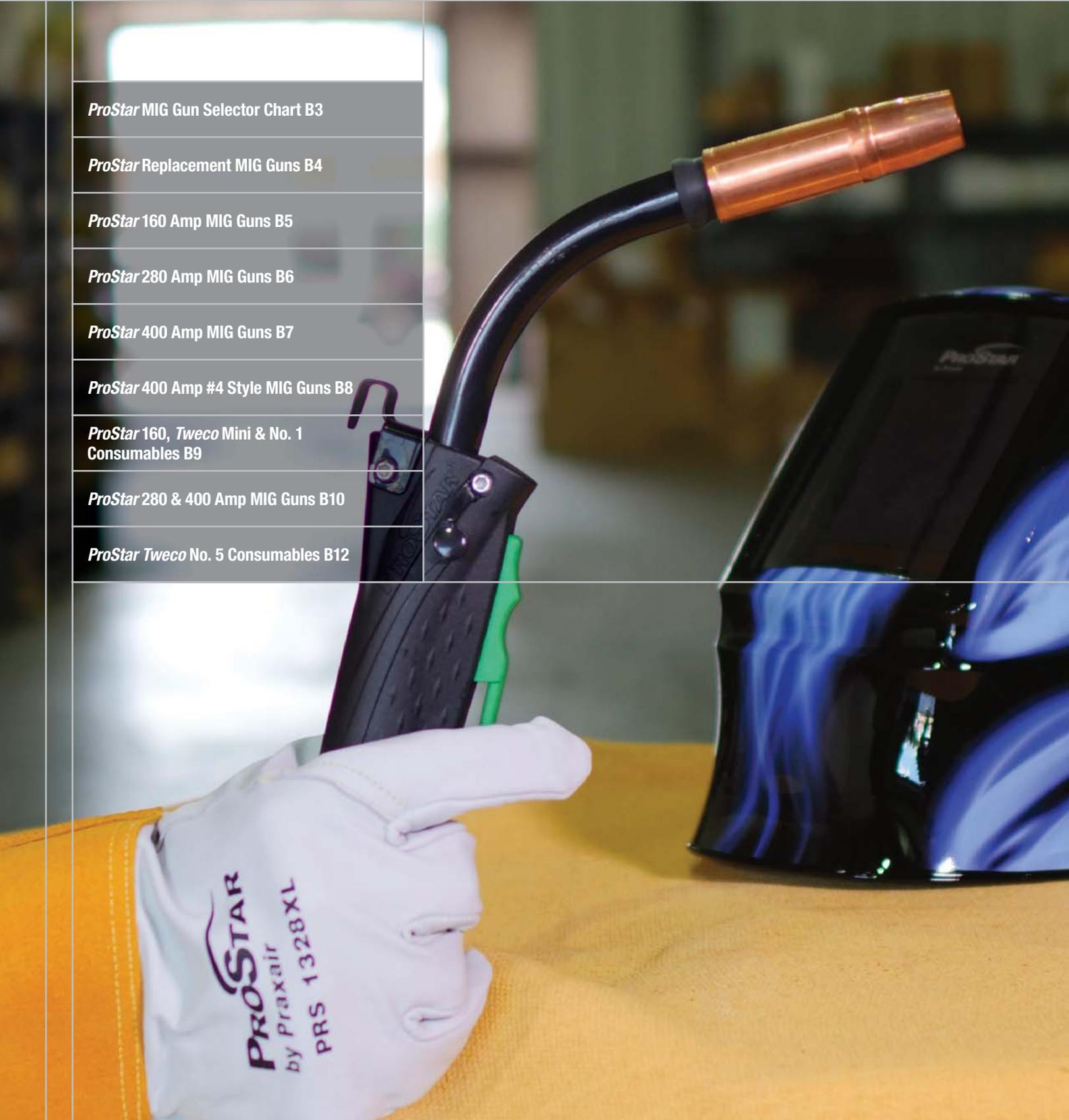
ProStar 400 Amp MIG Guns B7

ProStar 400 Amp #4 Style MIG Guns B8

ProStar 160, *Tweco* Mini & No. 1 Consumables B9

ProStar 280 & 400 Amp MIG Guns B10

ProStar Tweco No. 5 Consumables B12



ProStar™ MIG Gun Selector Chart

Hobart® MIG Machines	Use ProStar MIG Gun:
Handler® 120/130/150	PRS160103035T – PRS160103035FC
Beta-MIG 250/251	PRS280153035T – PRS280153545T PRS400153545T – PRS40015116T
Beta-MIG 1800 (500 Series), IronMan® 210/240	PRS160103035M
Beta-MIG 2510 (500 Series), Beta-MIG 2250, IronMan 250, 275	PRS280123035M – PRS280153035M – PRS280153545M PRS400153545M – PRS40015116M

Miller® MIG Machines	Use ProStar MIG Gun:
Millermatic® 90/120/130/130XP, Millermatic 140/150/175/180/185/211, SideKick®, SideKick XL, Miller Challenger, Challenger 172, Millermatic, DVI Millermatic, Passport®	PRS160103035M
Millermatic 200, 210, 212, 250, 250X, 251, 252 350/350P & Millermatic Vintage, 300 Access 300/450, MIGRunner Package CP-302, Delta-Fab System, Deltaweld 302, 452, Invision 456MP & 456P	PRS280123035M – PRS280153035M – PRS280153545M PRS400153545M – PRS40015116M

Lincoln® MIG Machines	Use ProStar MIG Gun:
SP-100/SP-100-I/SP-100T/SP-125 Plus, SP-135T SP-135 Plus, SP-140-I, P-150, SP-170, SP-170-I, SP-170T, SP-175T, SP-175 Plus, Pro-MIG® 135/140T/140C/175/180T/180C	PRS160103035T – PRS160103035FC
SP-140T/SP-180T, Power MIG 140C/180C	PRS160103035P
Power MIG 200/215/255/255C/300, Wire-Matic™ 255	PRS280153035T – PRS280153545T PRS400153545T – PRS40015116T
LN-7 Series, LN-742, LN-8, LN-9 Series, LN-25	PRS280153035L – PRS280153545L PRS400153545L – PRS40015116L
Power Feed™ 10M/LN-10/DH-10/STT-10/LN-15 Power Feed™ 15MLF-72/LF-74 Series	PRS280153035T + PRS25LAC – PRS280153545T + PRS25LAC PRS400153545T + PRS25LAC – PRS40015116T + PRS25LAC

ARC ACCESSORIES



Connection Type	Prostar MIG Gun:
	PRS160103035E PRS280153035E PRS280153545E PRS400153545E PRS40015116E
	PRS160103035P
	PRS160153035T PRS160103545FC
	PRS160103035M

Part No.	Description	Qty
PRS25LAC	4 Pin to 5 Pin Adapter	1/pkg

	PRS280153035T PRS280153545T PRS400153545T PRS40015116T
	PRS280123035M PRS280153035M PRS280153545M PRS400153545M PRS40015116M
	PRS280153035L PRS280153545L PRS400153545L PRS40015116L

ProStar™ Tweco® Style MIG Guns

160 Amp MIG Guns

With Tweco style consumables. Also available with Miller® consumables

▶ Page B10



ERGONOMIC
COMFORT-GRIP HANDLE
LESS OPERATOR FATIGUE

280 Amp MIG Guns

With Tweco style consumables. Also available with Miller, Bernard®, and Tregaskiss® consumables

▶ Page B11



REAR GUN HANGER
HELPS TO ELIMINATE ACCIDENTAL
TRIGGER ACTIVATION

EXTENDED TRIGGER
ABILITY TO MOVE HAND AWAY
FROM REFLECTIVE HEAT

400 Amp MIG Guns

With Tweco style consumables. Also available with Bernard and Tregaskiss consumables

▶ Pages B11, B16, B18



HEAVY-DUTY STRAIN RELIEF
HELPS TO ELIMINATE PINCH POINT
AND CABLE KINKING

360° SWIVEL CONDUCTOR TUBE
FOR OUT-OF-POSITION WELDING
280 AMP & 400 AMP

280 & 400 Amp MIG Guns

With Tweco style consumables

▶ Pages B11 – B12



INDUSTRY PREFERRED MIG CABLE
MADE IN USA
280 AMP & 400 AMP

BLADE-TYPE TRIGGER SWITCH
DEPENDABLE, LONG LASTING

400 Amp #4 MIG Guns

With Tweco Style Consumables.

▶ Page B11



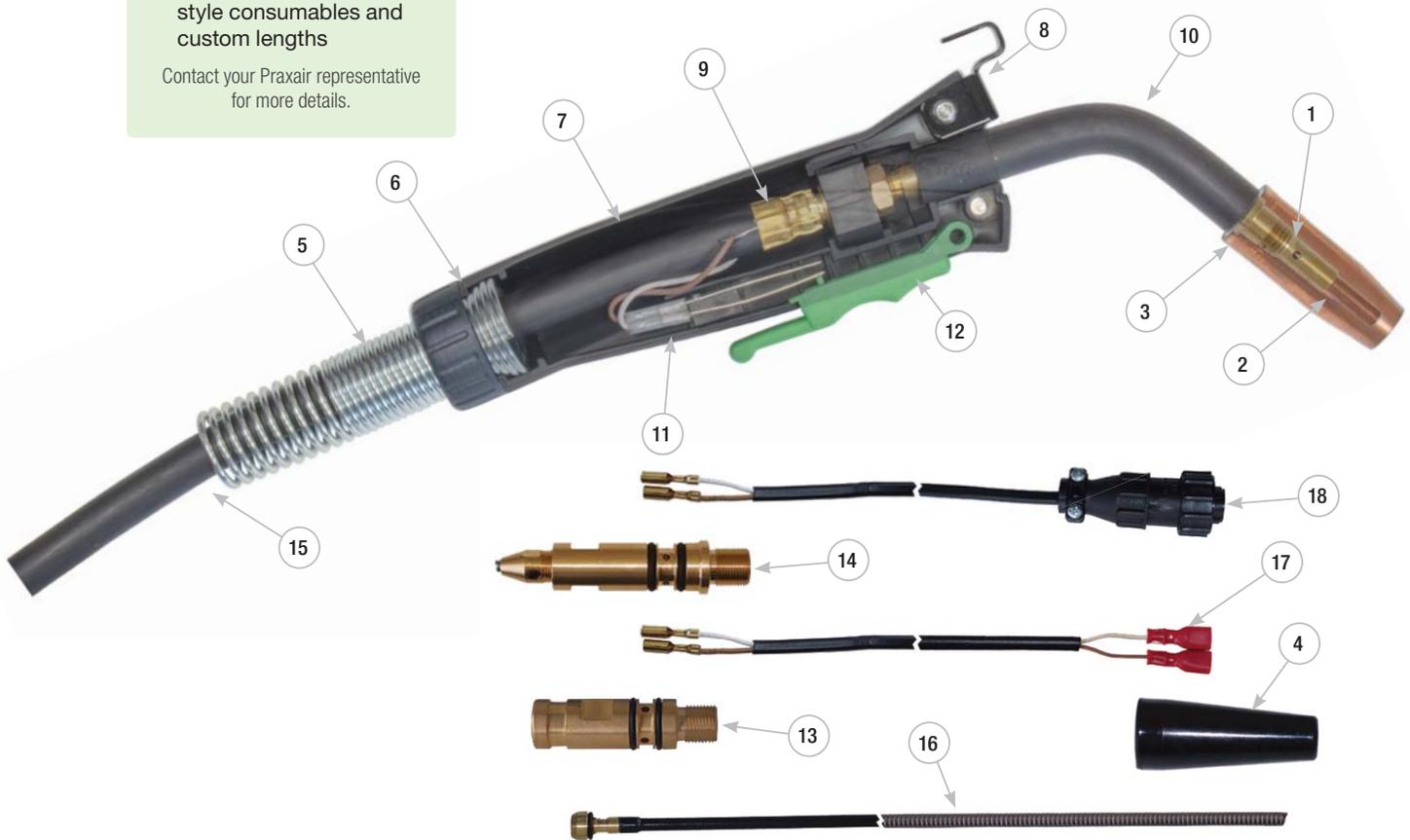
QUICK-CHANGE CONDUCTOR TUBE
CAN BE CHANGED OUT IN SECONDS

ProStar™ 160 Amp MIG Guns

AVAILABLE MIG GUNS WITH TWECO® STYLE CONSUMABLES

Part No.	Length	Wire Size	Connection	Trigger Connection	Gun Type
PRS160103035P	10 Foot	.030 – .035"	<i>Tweco</i> Style	4 Pin	MIG
PRS160103035T	10 Foot	.030 – .035"	<i>Tweco</i> Style	Spade	MIG
PRS160103545FC	10 Foot	.035 – .045"	<i>Tweco</i> Style	Spade	Flux Core
PRS160103035M	10 Foot	.030 – .035"	<i>Miller</i> Style	4 Pin	MIG
PRS160103035E	10 Foot	.030 – .035"		Euro	MIG

• Also available with *Miller*® style consumables and custom lengths
Contact your Praxair representative for more details.



PROSTAR 160 MIG GUNS PARTS BREAKDOWN

#	Description	Part No.
1	Diffuser	PRS35-50
2	Contact Tip	See page B10
3	Nozzle	See page B10
4	Nozzle, Gasless (Flux Core)	PRS1939-1
5	Strain Relief	PRS13SR
6	Handle Locking Ring	PRS28HRP
7	Handle 2pcs w/Screws	PRS16HDP
8	Gun Hanger	PRS25GH
9	Tube Block	PRS13BK
10	Conductor Tube	PRS13CT

#	Description	Part No.
11	Trigger Blade	PRS25TB
12	Comfort Grip Trigger	PRS25TRP
13	Connector <i>Tweco</i> Style	PRS13TC
14	Connector <i>Miller</i> Style	PRS13MC
15	Power Cable Assembly	PRS13PC
16	Wire Conduit (MIG) .030" – .035" X 15'	PRS35-40-15
	Wire Conduit (Flux Cored) .035" – .045" X 15'	PRS45-40-15
17	Trigger Connector (Spade)	PRS13TA
18	Trigger Connector (4 Pin)	PRS25MA

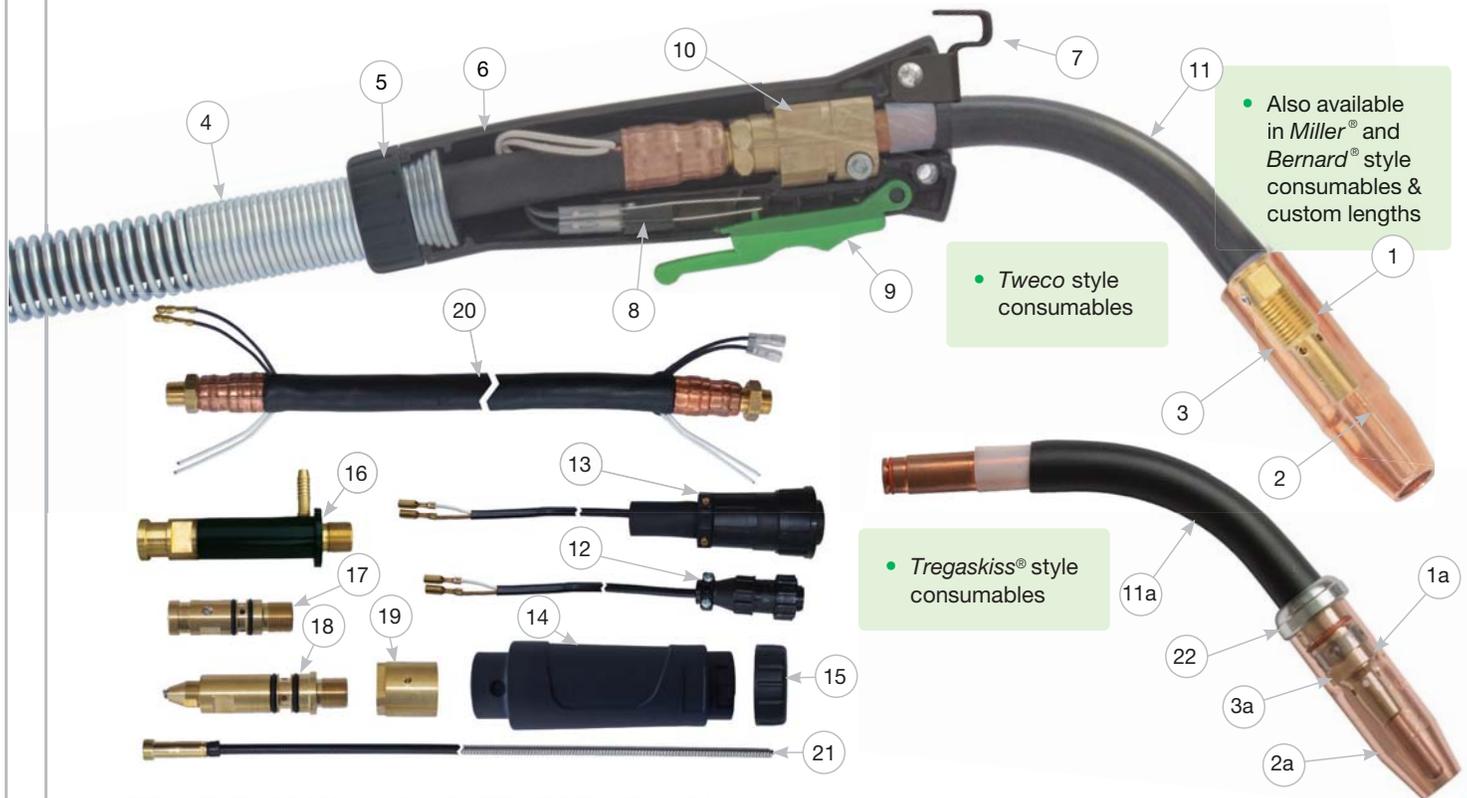
ProStar™ 280 Amp MIG Guns

GUNS WITH TWECO® STYLE CONSUMABLES

Part No.	Length	Wire Size	Connection
PRS280153035T	15 Foot	.030 – .035"	<i>Tweco</i>
PRS280153545T	15 Foot	.035 – .045"	<i>Tweco</i>
PRS280123035M	12 Foot	.030 – .035"	<i>Miller</i> ®
PRS280153035M	15 Foot	.030 – .035"	<i>Miller</i>
PRS280153545M	15 Foot	.035 – .045"	<i>Miller</i>
PRS280153035L	15 Foot	.030 – .035"	<i>Lincoln</i> ®
PRS280153545L	15 Foot	.035 – .045"	<i>Lincoln</i>
PRS280153035E	15 Foot	.030 – .035"	Euro
PRS280153545E	15 Foot	.035 – .045"	Euro

GUNS WITH TREGASKISS® STYLE CONSUMABLES

Part No.	Length	Wire Size	Connection
PRS280153545TRT	15 Foot	.035 – .045"	<i>Tweco</i>
PRS280203545TRT	20 Foot	.035 – .045"	<i>Tweco</i>
PRS280253545TRT	25 Foot	.035 – .045"	<i>Tweco</i>
PRS280153545TRM	15 Foot	.035 – .045"	<i>Miller</i>
PRS280203545TRM	20 Foot	.035 – .045"	<i>Miller</i>
PRS280253545TRM	25 Foot	.035 – .045"	<i>Miller</i>
PRS280153545TRL	15 Foot	.035 – .045"	<i>Lincoln</i>
PRS280203545TRL	20 Foot	.035 – .045"	<i>Lincoln</i>
PRS280253545TRL	25 Foot	.035 – .045"	<i>Lincoln</i>



• Also available in *Miller*® and *Bernard*® style consumables & custom lengths

• *Tweco* style consumables

• *Tregaskiss*® style consumables

PROSTAR 280 MIG GUNS PARTS BREAKDOWN

#	Description	Part No.
1	Diffuser, <i>Tweco</i> Style	PRS52FN
1a	Diffuser, <i>Tregaskiss</i> Style	PRS404-13
2	Contact Tips, <i>Tweco</i> Style	See Page B11
2a	Contact Tips, <i>Tregaskiss</i> Style	See Page B15
3	Nozzles, <i>Tweco</i> Style	See Page B12
3a	Nozzles, <i>Tregaskiss</i> Style	See Page B16
4	Strain Relief	PRS25SR
5	Handle Locking Ring	PRS28HRP
6	Handle 2pcs w/Screws	PRS28HDP
7	Gun Hanger	PRS25GH
8	Trigger Blade	PRS25TB
9	Comfort Grip Trigger	PRS25TRP
10	Tube Block	PRS25BK

#	Description	Part No.
11	Conductor Tube, <i>Tweco</i> Style	PRS25CT
11a	Conductor Tube, <i>Tregaskiss</i> Style	PRS25CTT
12	Trigger Connector <i>Miller</i> Style (4 Pin)	PRS25MA
13	Trigger Connector <i>Lincoln</i> ® Style (5 Pin)	PRS25LA
14	Connector Case Assembly	PRS28CAP
15	Connector Locking Ring	PRS40HRP
16	Connector <i>Lincoln</i> Style	PRS25LC
17	Connector <i>Tweco</i> Style	PRS25TC
18	Connector <i>Miller</i> Style	PRS25MC
19	Connector Body	PRS25CB
20	Power Cable Assembly	PRS25PC
21	Wire Conduit - Liner	See Page B12
22	Insulator, <i>Tregaskiss</i> Style	PRS25BK

ProStar™ 400 Amp MIG Guns

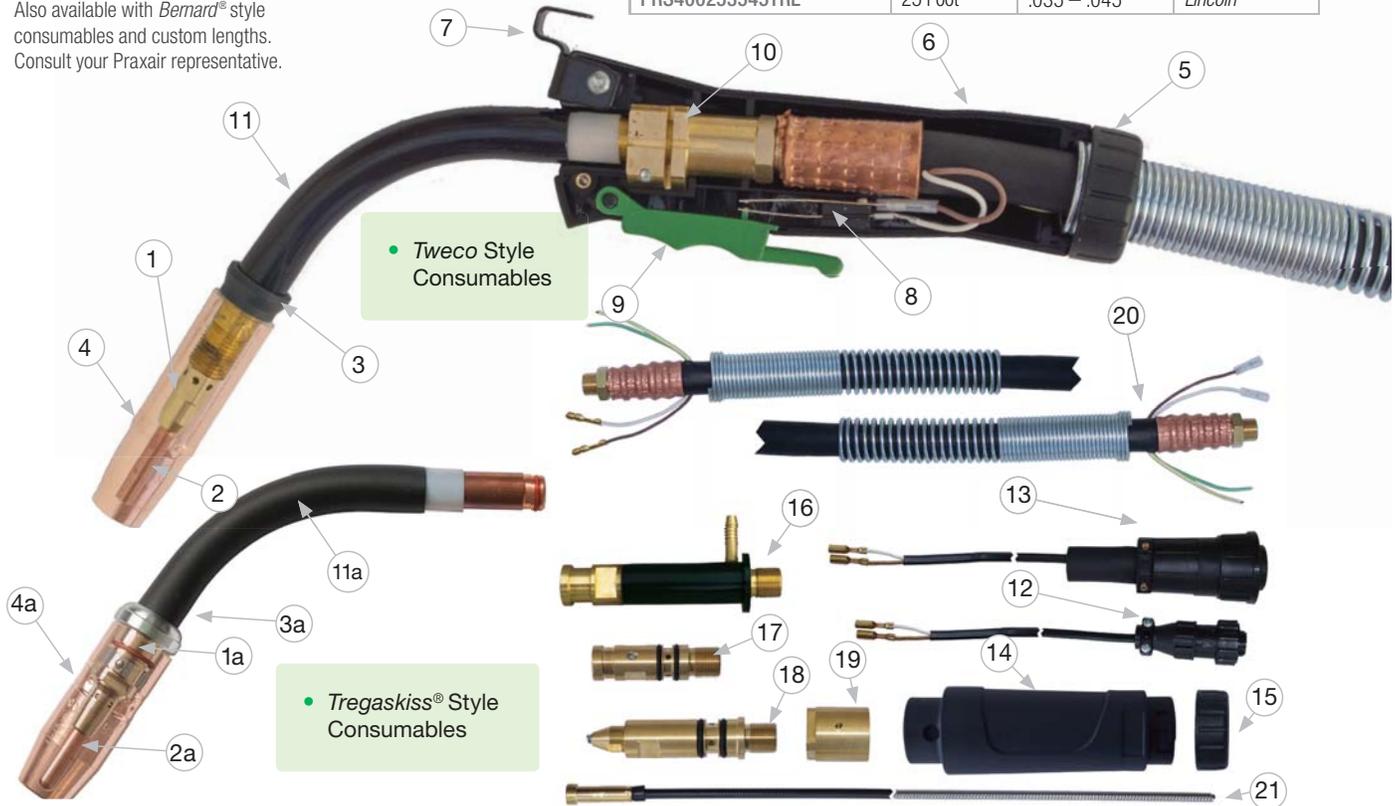
GUNS WITH TWECO® STYLE CONSUMABLES

Part No.	Length	Wire Size	Connection
PRS400153545T	15 Foot	.035 – .045"	Tweco
PRS40015116T	15 Foot	.045 – 1/16"	Tweco
PRS400153545M	15 Foot	.035 – .045"	Miller®
PRS40015116M	15 Foot	.045 – 1/16"	Miller
PRS400153545L	15 Foot	.035 – .035"	Lincoln®
PRS40015116L	15 Foot	.045 – 1/16"	Lincoln
PRS400153545E	15 Foot	.035 – .035"	Euro
PRS40015116E	15 Foot	.045 – 1/16"	Euro

GUNS WITH TREGASKISS® STYLE CONSUMABLES

Part No.	Length	Wire Size	Connection
PRS400153545TRT	15 Foot	.035 – .045"	Tweco
PRS400203545TRT	20 Foot	.035 – .045"	Tweco
PRS400253545TRT	25 Foot	.035 – .045"	Tweco
PRS400153545TRM	15 Foot	.035 – .045"	Miller
PRS400203545TRM	20 Foot	.035 – .045"	Miller
PRS400253545TRM	25 Foot	.035 – .045"	Miller
PRS400153545TRL	15 Foot	.035 – .045"	Lincoln
PRS400203545TRL	20 Foot	.035 – .045"	Lincoln
PRS400253545TRL	25 Foot	.035 – .045"	Lincoln

Also available with Bernard® style consumables and custom lengths. Consult your Praxair representative.



PROSTAR 400 MIG GUNS PARTS BREAKDOWN

#	Description	Part No.
1	Diffuser, <i>Tweco</i> Style	PRS54A
1a	Diffuser, <i>Tregaskiss</i> Style	PRS404-13
2	Contact Tips, <i>Tweco</i> Style	See Page B11 & B13
2a	Contact Tips, <i>Tregaskiss</i> Style	See Page B15
3	Insulator, <i>Tweco</i> Style	PRS40CTI
3a	Insulator, <i>Tregaskiss</i> Style	PRS402-5
4	Nozzles, <i>Tweco</i> Style	See Page B12 & B13
4a	Nozzles, <i>Tregaskiss</i> Style	See Page B16
5	Handle Locking Ring	PRS40HRP
6	Handle 2pcs w/Screws	PRS40HDP
7	Gun Hanger	PRS25GH
8	Trigger Blade	PRS25TB
9	Comfort Grip Trigger	PRS25TRP

#	Description	Part No.
10	Tube Block	PRS40BK
11	Conductor Tube	PRS40CT
11a	Conductor Tube, <i>Tregaskiss</i> Style	PRS40CTT
12	Trigger Connector <i>Miller</i> Style (4 Pin)	PRS25MA
13	Trigger Connector <i>Lincoln</i> Style (5 Pin)	PRS25LA
14	Connector Case Assembly	PRS28CAP
15	Connector Locking Ring	PRS40HRP
16	Connector <i>Lincoln</i> Style	PRS25LC
17	Connector <i>Tweco</i> Style	PRS25TC
18	Connector <i>Miller</i> Style	PRS25MC
19	Connector Body	PRS40CB
20	Power Cable Assembly	PRS40PC
21	Wire Conduit - Liner	See Page B12

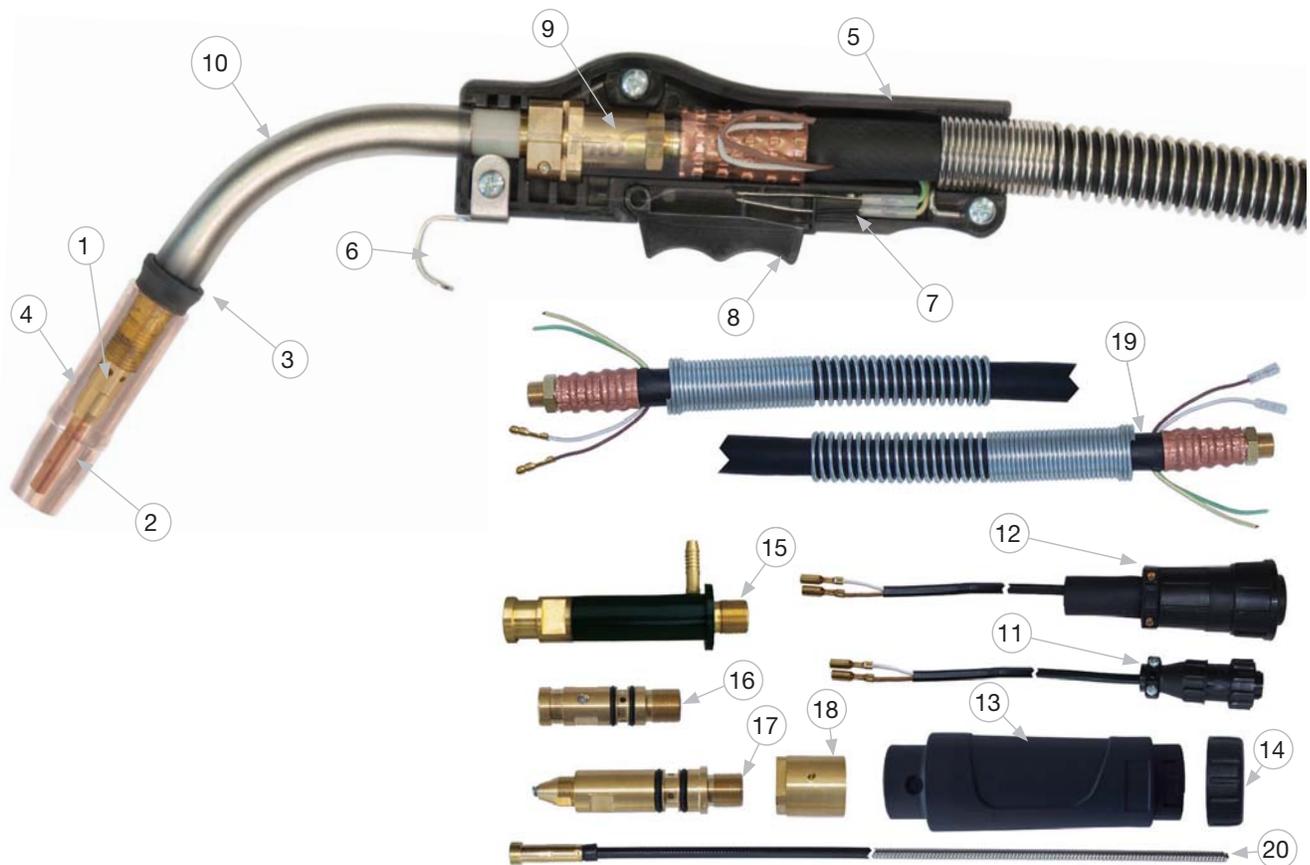
ProStar™ 400 Amp #4 Style MIG Guns

GUNS WITH TWECO® STYLE CONSUMABLES

Part No.	Length	Wire Size	Connection
PRS4153545T	15 Foot	.035 – .045"	Tweco
PRS415116T	15 Foot	.045 – 1/16"	Tweco
PRS4253545T	25 Foot	.035 – .045"	Tweco
PRS425116T	25 Foot	.045 – 1/16"	Tweco
PRS4153545M	15 Foot	.035 – .045"	Miller®
PRS415116M	15 Foot	.045 – 1/16"	Miller
PRS4253545M	25 Foot	.035 – .045"	Miller
PRS425116M	25 Foot	.045 – 1/16"	Miller

GUNS WITH TWECO® STYLE CONSUMABLES

Part No.	Length	Wire Size	Connection
PRS4153545L	15 Foot	.035 – .045"	Lincoln®
PRS415116L	15 Foot	.045 – 1/16"	Lincoln
PRS4253545L	25 Foot	.035 – .045"	Lincoln
PRS425116L	25 Foot	.045 – 1/16"	Lincoln
PRS4153545E	15 Foot	.035 – .045"	Euro
PRS415116L	15 Foot	.045 – 1/16"	Euro
PRS4253545E	25 Foot	.035 – .045"	Euro
PRS425116L	25 Foot </td <td>.045 – 1/16"</td> <td>Euro</td>	.045 – 1/16"	Euro



PROSTAR 400 MIG GUNS PARTS BREAKDOWN

#	Description	Part No.
1	Diffuser	PRS54A
2	Contact Tips	See Page B11 & B13
3	Insulator	PRS40CTI
4	Nozzles	See Page B12 & B13
5	Handle 2pcs w/Screws	PRS415HD
6	Gun Hanger	PRS415GH
7	Trigger Blade	PRS25TB
8	Trigger	PRS415TR
9	Tube Block	PRS40BK
10	Conductor Tube	PRS415CT

#	Description	Part No.
11	Trigger Connector <i>Miller</i> Style (4 Pin)	PRS25MA
12	Trigger Connector <i>Lincoln</i> Style (5 Pin)	PRS25LA
13	Connector Case Assembly	PRS28CAP
14	Connector Locking Ring	PRS40HRP
15	Connector <i>Lincoln</i> Style	PRS25LC
16	Connector <i>Tweco</i> Style	PRS25TC
17	Connector <i>Miller</i> Style	PRS25MC
18	Connector Body	PRS40CB
19	Power Cable Assembly	PRS40PC
20	Wire Conduit - Liner	See Page B12

ProStar™ 160, Tweco® Mini & No. 1 Consumables

ARC ACCESSORIES

Liners

Diffusers

Contact Tips

Nozzles

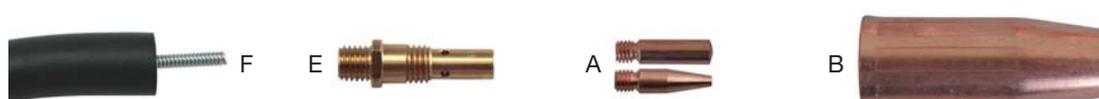
PROSTAR 160 MIG GUN, TWECO STYLE MINI INSULATED THREADED NOZZLE SETUP



PROSTAR 160 MIG GUN, TWECO STYLE MINI INSULATED THREADED NOZZLE SETUP



TWECO STYLE NO. 1 INSULATED THREADED NOZZLE SETUP



TWECO STYLE NO. 1 FLUX CORE NOZZLE SETUP



Contact Tips



Standard 5/pkg	Standard 25/pkg	Tapered 25/pkg	Size
PRS11-23-5	PRS11-23	PRS11T-23	.023" (0.6mm)
PRS11-30-5	PRS11-30	PRS11T-30	.030" (0.8mm)
PRS11-35-5	PRS11-35	PRS11T-35	.035" (0.9mm)
—	PRS11-40	—	.040" (1.0mm)
PRS11-45-5	PRS11-45	PRS11T-45	.045" (1.2mm)

Nozzles



Part No.	Description	Dia	Qty
PRS21-37	Self-Insulated 1/8" Recess	3/8"	2/pkg
PRS21-37-F	Self-Insulated Flush	3/8"	2/pkg
PRS21T-37	Self-Insulated 1/8" Recess	3/8"	2/pkg
PRS21-50	Self-Insulated 1/8" Recess	1/2"	2/pkg
PRS21-50-F	Self-Insulated Flush	1/2"	2/pkg
PRS21-62	Self-Insulated 1/8" Recess	5/8"	2/pkg
PRS21-62-F	Self-Insulated Flush	5/8"	2/pkg

Guns: Mini & No. 1



Part No.	Description	Dia	Qty
PRS1939-1	Gasless (Flux-core) Nozzle	1/4"	2/pkg

Guns: Mini & No. 1

Diffusers



Part No.	Description	Qty
PRS35-50	Diffuser	5/pkg
PRS35-50-2	Diffuser	2/pkg

Guns: Mini



Part No.	Description	Qty
PRS51	Diffuser	5/pkg
PRS51-2	Diffuser	2/pkg

Guns: No. 1

Liners



Part No.	Size	Length	Guns	Qty
PRS23-40-15	.023"	15'	PRS160, Mini	1/pkg
PRS35-40-15	.030" – .035"	15'	PRS160, Mini	1/pkg
PRS45-40-15	.035" – .045"	15'	PRS160, Mini	1/pkg
PRS42-23-15	.023"	15'	PRS280, No. 1&2	1/pkg
PRS42-3035-15	.030" – .035"	15'	PRS280, No. 1&2	1/pkg
PRS42-4045-15	.040" – .045"	15'	PRS280, No. 1&2	1/pkg
PRS42-3035-25	.030" – .035"	25'	PRS280, No. 1&2	1/pkg
PRS42-4045-25	.040" – .045"	25'	PRS280, No. 1&2	1/pkg

ProStar™ 280 & 400 Amp MIG Guns

Liners

Diffusers

Contact Tips

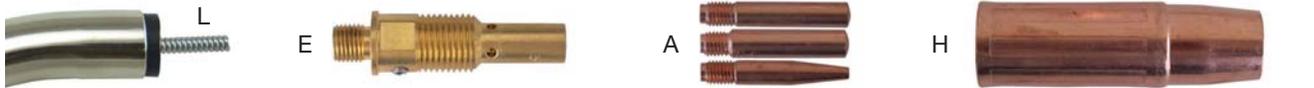
Insulators

Nozzles

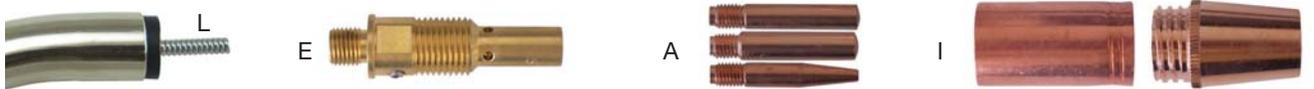
TWECO® STYLE NO. 2 SLIP-ON NOZZLE SETUP



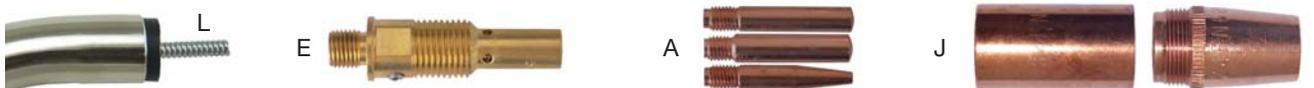
TWECO STYLE NO. 2 INSULATED THREADED NOZZLE SETUP



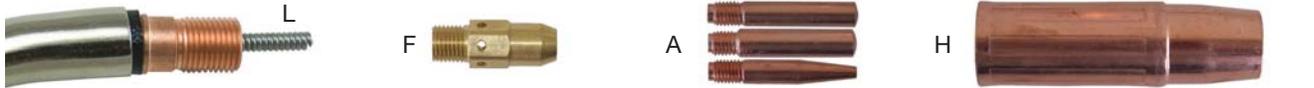
TWECO STYLE NO. 2 COARSE THREAD NOZZLE SETUP



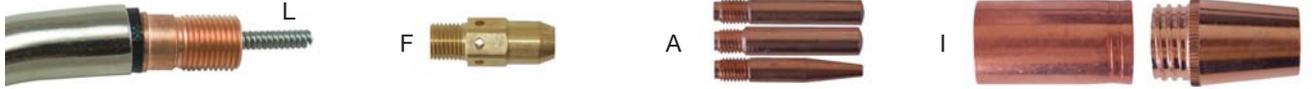
TWECO STYLE NO. 2 FINE THREAD NOZZLE SETUP



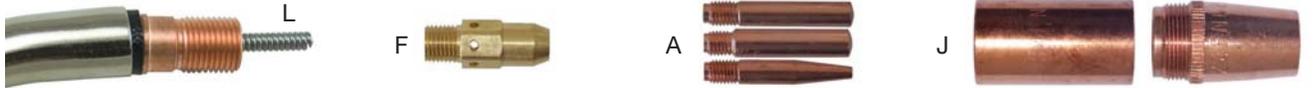
TWECO STYLE NO. 3 & 4 INSULATED THREADED NOZZLE SETUP



TWECO STYLE NO. 3 & 4 COARSE THREAD NOZZLE SETUP



TWECO STYLE NO. 3 & 4 FINE THREAD NOZZLE SETUP



TWECO STYLE NO. 3 & 4 SLIP-ON NOZZLE SETUP



Contact Tips



Std 5/pkg	Std 25/kg	HD 25/pkg	Tapered 25/pkg	Size
—	PRS14-23	—	—	.023" (0.6mm)
PRS14-30-5	PRS14-30	—	PRS14T-30	.030" (0.8mm)
PRS14-35-5	PRS14-35	PRS14H-35	PRS14T-35	.035" (0.9mm)
—	PRS14-40	PRS14H-40	PRS14T-40	.040" (1.0mm)
PRS14-45-5	PRS14-45	PRS14H-45	PRS14T-45	.045" (1.2mm)
—	PRS14-52	PRS14H-52	PRS14T-52	.052" (1.3mm)
—	PRS14-116	PRS14H-116	PRS14T-116	1/16" (1.6mm)
—	PRS14-564	PRS14H-564	—	5/64" (2.0mm)

Insulator



Part No.	Qty
PRS32	5/pkg
PRS32-2	2/pkg

Part No.	Qty
PRS34A	5/pkg
PRS34A-2	2/pkg

→ continued **280 & 400 Amp MIG Guns**

Diffusers



Part No.	Description	Qty
PRS52	Diffuser	5/pkg
PRS52-2	Diffuser	2/pkg
PRS52-23	Diffuser (.023" Wire)	5/pkg

Part No.	Description	Qty
PRS52FN	Diffuser	5/pkg
PRS52FN-2	Diffuser	2/pkg

Part No.	Description	Qty
PRS54A	Diffuser (Brass)	5/pkg
PRS54A-2	Diffuser (Brass)	2/pkg

Nozzles



Part No.	Description	Dia	Qty
PRS22-37	Adjustable	3/8"	2/pkg
PRS22-37-SS	Short Stop 1/8" Recess	3/8"	2/pkg
PRS22T-37-SS	Tapered, Short Stop 1/8" Recess	3/8"	2/pkg
PRS22-50	Adjustable	1/2"	2/pkg
PRS22-50-SS	Short Stop 1/8" Recess	1/2"	2/pkg
PRS22-62	Adjustable	5/8"	2/pkg
PRS22-62-SS	Short Stop 1/8" Recess	5/8"	2/pkg

Part No.	Description	Dia	Qty
PRS23-37	Self-Insulated 1/8" Recess	3/8"	2/pkg
PRS23-37F	Self-Insulated Flush	3/8"	2/pkg
PRS23T37	Tapered, Self-Insulated 1/8" Recess	3/8"	2/pkg
PRS23T37F	Tapered, Self-Insulated Flush	3/8"	2/pkg
PRS23-50	Self-Insulated 1/8" Recess	1/2"	2/pkg
PRS23-50F	Self-Insulated Flush	1/2"	2/pkg
PRS23-62	Self-Insulated 1/8" Recess	5/8"	2/pkg
PRS23-62F	Self-Insulated Flush	5/8"	2/pkg
PRS23H-62	HD, Self-Insulated 1/8" Recess	5/8"	2/pkg
PRS23-75	Self-Insulated 1/8" Recess	3/4"	2/pkg



Part No.	Description	Dia	Qty
PRS24CT-37-S	Coarse Thread 1/8" Recess	3/8"	2/pkg
PRS24CT-50-S	Coarse Thread 1/8" Recess	1/2"	2/pkg
PRS24CT-50F	Coarse Thread Flush	1/2"	2/pkg
PRS24CT-62-S	Coarse Thread 1/8" Recess	5/8"	2/pkg
PRS24CT-62F	Coarse Thread Flush	5/8"	2/pkg
PRS24CT-75-S	Coarse Thread 1/8" Recess	3/4"	2/pkg
PRS34CT	Insulator, Coarse Thread	—	2/pkg



Part No.	Description	Dia	Qty
PRS24FN-50S	Nozzle, Fine Thread 1/8" Recess	1/2"	2/pkg
PRS24FN-62S	Nozzle, Fine Thread 1/8" Recess	5/8"	2/pkg
PRS24FN-75S	Nozzle, Fine Thread 1/8" Recess	3/4"	2/pkg
PRS34FN	Insulator, Fine Thread	—	2/pkg



Part No.	Description	Dia	Qty
PRS24A-37-SS	Tapered, Short Stop 1/8" Recess	1/2"	2/pkg
PRS24A-50	Adjustable	1/2"	2/pkg
PRS24A-50-SS	Short Stop 1/8" Recess	1/2"	2/pkg
PRS24AH-50	Heavy Duty, Adjustable	1/2"	2/pkg
PRS24A-62	Adjustable	5/8"	2/pkg
PRS24A-62-SS	Short Stop 1/8" Recess	5/8"	2/pkg
PRS24AH-62	Heavy Duty, Adjustable	5/8"	2/pkg
PRS24A-75	Adjustable	3/4"	2/pkg
PRS24AH-75	Heavy Duty, Adjustable	3/4"	2/pkg
PRS24AH-7	Short Stop 1/8" Recess	3/4"	2/pkg

Liners



Part No.	Size	Length	Guns	Qty
PRS42-23-15	.023"	15'	PRS280, No. 1&2	1/pkg
PRS42-3035-15	.030" – .035"	15'	PRS280, No. 1&2	1/pkg
PRS42-4045-15	.040" – .045"	15'	PRS280, No. 1&2	1/pkg
PRS42-3035-25	.030" – .035"	25'	PRS280, No. 1&2	1/pkg
PRS42-4045-25	.040" – .045"	25'	PRS280, No. 1&2	1/pkg
PRS44-3545-15	.035" – .045"	15'	PRS400, No. 3&4	1/pkg
PRS44-116-15	1/16"	15'	PRS400, No. 3&4	1/pkg
PRS44-564-15	5/64"	15'	PRS400, No. 3&4	1/pkg
PRS44-564-25	5/64"	25'	PRS400, No. 3&4	1/pkg
PRS44-3545-25	.035" – .045"	25'	PRS400, No. 3&4	1/pkg
PRS44-116-25	1/16"	25'	PRS400, No. 3&4	1/pkg

ProStar™ Tweco® No. 5 Consumables

Liners

Diffusers

Contact Tips

Nozzles

TWECO STYLE NO. 5 COARSE THREAD NOZZLE SETUP



Contact Tips



Nozzles



1/8" Recess 25/pkg	3/8" Recess 25/pkg	Size
PRS15H-35	—	.035" (0.9mm)
PRS15H-45	PRS15HFC-45	.045" (1.2mm)
PRS15H-52	—	.052" (1.3mm)
PRS15H-116	PRS15HFC-116	1/16" (1.6mm)
PRS15H-564	PRS15HFC-564	5/64" (2.0mm)
PRS15H-332	PRS15HFC-332	3/32" (2.4mm)

Part No.	Description	Dia	Qty
PRS25CT-50	Coarse Thread 1/8" Recess	1/2"	2/pkg
PRS25CT-62	Coarse Thread 1/8" Recess	5/8"	2/pkg
PRS25CT-75	Coarse Thread 1/8" Recess	3/4"	2/pkg
PRS35CT	Insulator, Coarse Thread	—	2/pkg

Diffusers



Part No.	Description	Qty
PRS55	45-564, 45N-116	5/pkg
PRS55H	45H-332, 45H-764, 45H-18	5/pkg
PRS55SW	45-3545, 45-116, 45N-3545	5/pkg

Tweco Style No. 3, 4 Consumables

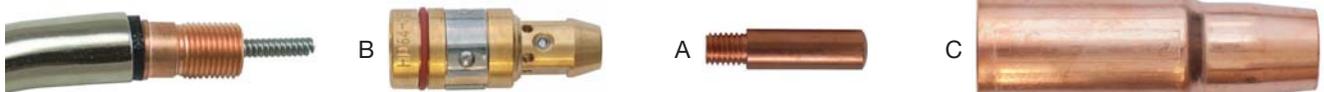
Liners

Diffusers

Contact Tips

Nozzles

TWECO STYLE NO. 5 COARSE THREAD NOZZLE SETUP



Contact Tips (A)

Standard 25/pkg	Tapered 25/pkg	Size
PRS16S-35	PRS16ST-35	.035" (0.9mm)
PRS16S-45	PRS16ST-45	.045" (1.2mm)
PRS16S-52	—	.052" (1.3mm)
PRS16S-116	—	1/16" (1.6mm)
PRS16S-564	—	5/64" (2.0mm)
PRS16S-332	—	3/32" (2.4mm)
PRS16S-764	—	7/64" (2.8mm)

Diffusers (B)

Part No.	Description	Qty
PRSHD54-16	Diffuser (Brass)	5/pkg

Nozzles (C)

Part No.	Description	Dia	Qty
PRSHD24L-62	Heavy Duty Nozzle 1/8" Recess	5/8"	2/pkg
PRSHD24L-75	Heavy Duty Nozzle 1/8" Recess	3/4"	2/pkg

ProStar™ Bernard® Style MIG Guns & Consumables

ProStar Bernard® Style MIG Guns B14

ProStar Bernard® Style MIG Gun Consumables B16

ARC ACCESSORIES



ProStar™ Bernard® Style MIG Guns
Centerfire™ Technology

Built to Last

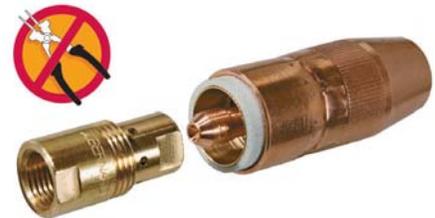


Built-in nozzle spatter shields protect the diffusers and produce a smoother, less turbulent gas flow that better protects the weld puddle.

Outstanding Durability

- 1) **Over one million cycles.** Trigger tested to pull over one million times without failure
- 2) **Endures roughest workshop conditions.** Handle is constructed of high-impact, glass-reinforced composite
- 3) **Better gas flow and feedability.** Internal gas hose resists kinking, long-lasting fittings maintain conductivity

No Tools Required
FASTER TIP CHANGES!



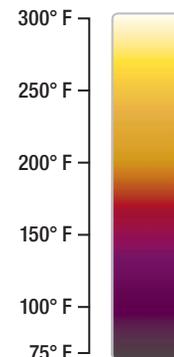
Threadless drop-in contact tips require no tools to change and are easier to replace. The larger tip bases and tapered seats increase electrical conductivity and heat transfer to extend consumable life.

The Comfort You Require

- 4) **Easier weld positions.** Rotatable neck for greater access to hard-to-reach welds.
- 5) **Rests securely in your hands.** Handle is ergonomically designed for control and extended use.
- 6) **Runs cooler.** Outperforms most original equipment MIG guns.

The Performance You Need

- 7) **Centerfire™ Technology.** Combines superior weld quality with improved performance and convenience.



Replacement MIG Guns

Durable, semi-automatic air-cooled *ProStar*™ MIG guns are trigger-tested to pull over one million times without failure. The ergonomically designed handle is constructed of high-impact, glass-reinforced composite. The internal gas hose resists kinking. Durable fittings maintain conductivity.

- Rugged, easy-to-convert gun connection, power pins with male threads, and can be changed without removing rigid strain relief. Trigger cable adapters make reconnecting trigger wires unnecessary.
- *Centerfire*™ nozzle built-in spatter shields protect the diffuser and produce smoother, less turbulent and concentrated shielding gas flow for less oxidation, contamination, and better protection of the weld puddle.
- *Centerfire* tips are threadless and drop and lock into place (no tools required to change), remain centered even after hard use, last up to three times longer, and can be rotated 360° to create new wear surface and extend tip life.

ProStar Universal Replacement MIG Guns

Improve weld quality: spatter shield within nozzle smooths gas flow and protects the diffuser

Reduce down time: threadless drop-in contact tip for faster changes after burnback without tools

Boost gun performance: large diameter tip base and tapered seat provide better electrical conductivity and heat transfer

Quick change neck: rotates 360° to allow greater access to hard-to-reach welds

Increase flexibility: quick-change neck rotates 360° for greater access to hard-to-reach places

<i>ProStar</i> Part No.	Cable Length	Connection
150 Amps		
PRS1510M	10' (3.0 m)	Miller®
PRS1515M	15' (4.5 m)	
PRS1510T	10' (3.0 m)	Tweco/Lincoln®
PRS1515T	15' (4.5 m)	
250 Amps		
PRS2512M	12' (3.7 m)	Miller
PRS2515M	15' (4.5 m)	
PRS2512T	12' (3.7 m)	Tweco/Lincoln
PRS2515T	15' (4.5 m)	
400 Amps		
PRS4012M	12' (3.7 m)	Miller
PRS4015M	15' (4.5 m)	
PRS4012T	12' (3.7 m)	Tweco
PRS4015T	15' (4.5 m)	
PRS4012L	12' (3.7 m)	Lincoln
PRS4015L	15' (4.5 m)	

UNIVERSAL REPLACEMENT MIG GUNS



Centerfire™ MIG Consumables: Advantages

Centerfire

Other Manufacturers



BETTER GAS FLOW CREATES BETTER WELDS

Centerfire Nozzles

Centerfire nozzles work with the gas diffuser to smooth and concentrate shielding gas flow for less oxidation and contamination.



TIPS LOCK IN PLACE FOR CONSISTENT PERFORMANCE

Centerfire Tips

Centerfire tips lock in place and remain centered, even after hard use.



TIPS LAST UP TO THREE TIMES LONGER

Centerfire Tips

Centerfire tips are suitable for heavy-duty industrial and light commercial applications.

All tips shown are standard .035"



ROTATABLE TIPS DELIVER EXTENDED LIFE

Centerfire Tips

Centerfire tips can be rotated 360° to create new wear surfaces and extend tip life.

Centerfire™ MIG Consumables

Centerfire Parts Ordering Guide

Use a Centerfire nozzle's part number to identify its specifications. The part number below represents a large Centerfire nozzle manufactured with 5/8" I.D., 1/8" tip recess and brass.

Nozzle Style	Orifice I.D.	Tip Recess	Material	Package Qty.
PRSN	58	18	B	1
	<i>(i.e. 58=5/8")</i>	<i>(i.e. 18=1/8")</i>		

Nozzle Styles

PRSNS = nozzle small
 PRSNST = nozzle small tapered
 PRSN = nozzle large

Tip Recess

XT = 1/8" extension beyond end of nozzle

Nozzle Materials

B = brass and C = copper

- Gas Diffusers
- Insulator Caps
- Contact Tips
- Nozzles

GAS DIFFUSERS

Part No.	Size
PRSDS-1-1	Small
PRSD-1-1	Large

Use small nozzles with small diffusers and large nozzles with large diffusers.

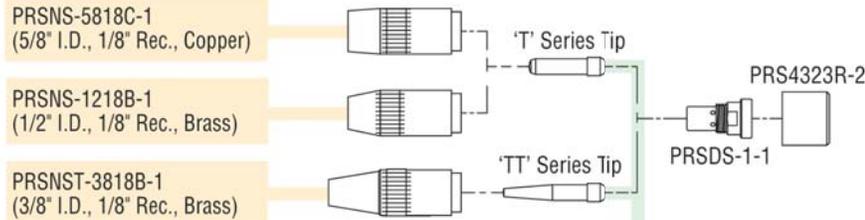
INSULATOR CAPS

Part No.	Size	Qty
PRS4323R-2	Small	2-pk
PRS10012-2	Large	2-pk
PRS4423R-2	Large	2-pk

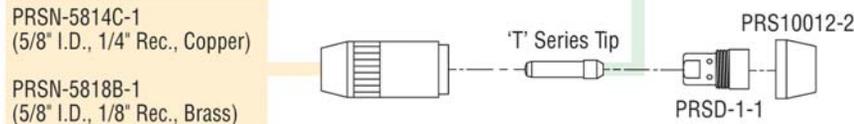
CONTACT TIPS

Part No.	Size	Qty
PRST-023-5	.023" (.6 mm)	5-pk
PRST-030-5	.030" (.8 mm)	5-pk
PRST-030	.030" (.8 mm)	10-pk
PRST-035-5	.035" (.9 mm)	5-pk
PRST-035	.035" (.9 mm)	10-pk
PRSTT-035-5	.035" (.9 mm) taper	5-pk
PRST-045-5	.045" (1.2 mm)	5-pk
PRST-045	.045" (1.2 mm)	10-pk
PRSTT-045-5	.045" (1.2 mm) taper	5-pk
PRST-052-5	.052" (1.4 mm)	5-pk
PRST-052	.052" (1.4 mm)	10-pk
PRST-062-5	1/16" (1.6 mm)	5-pk
PRST-062	1/16" (1.6 mm)	10-pk

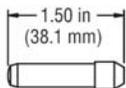
Small Centerfire™ Gas Diffusers and Nozzles



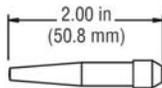
Large Centerfire™ Gas Diffusers and Nozzles



Centerfire™ 'T' Series Tips



Centerfire™ 'TT' Series Tips



NOZZLES

Part No.	Style	Size	Recess	Material
PRSNS-1218B-1	Small	1/2" ID	1/8"	Brass
PRSNS-5818C-1	Small	5/8" ID	1/8"	Copper
PRSNST-3818B-1	Small tapered	3/8" ID	1/8"	Brass
PRSN-5818B-1	Large	5/8" ID	1/8"	Brass
PRSN-5814C-1	Large	5/8" ID	1/4"	Copper

Replacement Handle Kit

- PRS1880218

Centerfire™ Parts Conversion Guide

Simplify your parts management and improve performance by converting all of your MIG guns to *Centerfire* nozzles, contact tips, and gas diffusers. Find your gun's make and model, then refer to the right for the part numbers to upgrade.

Gun Mfr	Gun Model	Nozzle/ Gas Diffuser	Adapter	Insulator	Gas Diffuser
Binzel®	ALPHA 2, 3, or 4, ALPHA 2, 3, or 4 automatic	Small	Not required	PRS4323R-2	BERDS-1B3
		Large	Not required	PRS10012-2	BERD-1B
Lincoln®	Magnum 250	Small	BER1380005	PRS4323R-2	PRSDS-1-1
		Large	BER1380005	PRS10012-2	PRSD-1-1
	Magnum 300, Magnum 400	Small	Not required	PRS4323R-2	BERDS-1T
		Large	Not required	PRS4423R-2	BERD-1T
Miller®	XR Edge	Small	BER1380018	PRS4323R-2	PRSDS-1-1
		Large	BER1380018	PRS10012-2	PRSD-1-1
	XR30A, XR-W, M-25, Roughneck, Python	Small	Not required	PRS4323R-2	PRSDS-1-1
		Large	Not required	PRS10012-2	PRSD-1-1
OXO®	APX	Small	Not required	PRS4323R-2	PRSDS-1-1
		Large	Not required	PRS10012-2	PRSD-1-1
Tregaskiss®	Toughgun	Small	Not required	PRS4323R-2	BERDS-1T
		Large	Not required	PRS4423R-2	BERD-1T
Tweco®	No. 1	Small	BER1380019	PRS4323R-2	PRSDS-1-1
		Large	BER1380019	PRS10012-2	PRSD-1-1
	No. 2	Small	BER1380005	PRS4323R-2	PRSDS-1-1
		Large	BER1380005	PRS10012-2	PRSD-1-1
	No. 3, No. 4, Tuff-n-Lite, Supra XT (HD Consumables), Spraymaster 450	Small	Not required	PRS4323R-2	BERDS-1T
		Large	Not required	PRS4423R-2	BERD-1T
	No. 5	Small	n/a	n/a	n/a
		Large	Not required	PRS4423R-2	BERD-1T-5
	ELC 250, ELC 350, Spraymaster 250, Spraymaster 350	Small	BER1380012	PRS4323R-2	PRSDS-1-1
		Large	BER1380012	PRS10012-2	PRSD-1-1
ELC 450, EL 450, EL 600, Supra XT (EL consumables)	Small	BER1380017	PRS4323R-2	PRSDS-1-1	
	Large	BER1380017	PRS10012-2	PRSD-1-1	



Installation Instructions

STANDARD INSTALLATION

- 1) Install insulator cap over neck
- 2) Trim liner to between 5/8" and 3/4" beyond neck thread
- 3) Torque diffuser onto neck to approx. 12 ft-lbs
- 4) Insert tip into the gas diffuser
- 5) Thread nozzle onto gas diffuser/tip; tighten firmly by hand

INSTALLATION WITH CONVERSION ADAPTER

- 1) Install insulator cap over the conversion adapter
- 2) Trim liner to between 5/8" and 3/4" beyond adapter thread
- 3) Torque diffuser onto the adapter to approx 12 ft-lbs
- 4) Insert tip into gas diffuser
- 5) Thread nozzle onto gas diffuser/tip; tighten firmly by hand

OEM Conversions & Consumables



Tregaskiss® Style Conversion Kits B21

Tregaskiss Style Consumables B22

Bernard® Style Conversion Kits B24

Bernard Style Consumables B25

Miller® Style Consumables B27

ESAB® Style Consumables B28

ARC ACCESSORIES

ProStar™ MIG Changeout Consumables



Two Ways to Save...
with ProStar Tip Refits!



#1 Using one style of MIG Gun?

Convert your gun(s) and reduce your consumable costs

#2 Is your shop full of multiple styles and gun brands?

Convert your guns and reduce consumable costs, as well as inventory costs and time spent ordering

Choose your consumables kit:

From...	To...	Part No.
<i>Bernard Centerfire</i>	<i>Bernard Traditional Style (Small)</i>	PRSTRK-B1
	<i>Bernard Traditional Style (Large)</i>	PRSTRK-B2
	<i>Tregaskiss Traditional Style</i>	PRSTRK-BT
<i>Tregaskiss Tough Lock</i>	<i>Tregaskiss Traditional Style (Standard)</i>	PRSTRK-T1
	<i>Tregaskiss Traditional Style (Heavy Duty)</i>	PRSTRK-T2
<i>Lincoln Magnum Pro/Curve</i>	<i>Tregaskiss Traditional Style</i>	PRSTRK-LT
<i>Miller Rough Neck</i>	<i>Tregaskiss Traditional Style</i>	PRSTRK-BT
	<i>Bernard Traditional Style</i>	PRSTRK-B2
<i>Miller Traditional</i>	<i>Tregaskiss Traditional Style</i>	PRSTRK-MT

- Bernard® Centerfire™
- Tregaskiss® Tough Lock®
- Miller® Rough Neck®
- Lincoln® Magnum® Pro/Curve™

Kit Contents

Part No.	Kit Includes	Description	Qty
PRSTRK-B2	PRS4435	Diffuser	1
	PRS4591	Nozzle	1
	PRS7489	Contact Tips (.035)	2
	PRS7490	Contact Tips (.045)	2
PRSTRK-B1	PRS4335	Diffuser	1
	PRS4393	Nozzle	1
	PRS7489	Contact Tips (.035)	2
	PRS7490	Contact Tips (.045)	2
PRSTRK-BT	PRS404-3B	Diffuser	1
	PRS401-6-62	Nozzle	1
	PRS403-1-35	Contact Tips (.035)	2
	PRS403-1-45	Contact Tips (.045)	2
PRSTRK-T2	PRS404-3	Diffuser	1
	PRS401-6-62	Nozzle	1
	PRS403-1-35	Contact Tips (.035)	2
	PRS403-1-45	Contact Tips (.045)	2

Kit Contents

Part No.	Kit Includes	Description	Qty
PRSTRK-T1	PRS404	Diffuser	1
	PRS402-3	Retainer	1
	PRS401-4-50	Nozzle	1
	PRS403-35	Contact Tips (.035)	2
	PRS403-45	Contact Tips (.045)	2
PRSTRK-LT	PRS402-7	Insulator	1
	PRS404-3L	Diffuser	1
	PRS401-6-62	Nozzle	1
	PRS403-1-35	Contact Tips (.035)	2
PRSTRK-MT	PRS403-1-45	Contact Tips (.045)	2
	PRS402-7	Insulator	1
PRSTRK-MT	PRS404-3M	Diffuser	1
	PRS401-6-62	Nozzle	1
	PRS403-1-35	Contact Tips (.035)	2
	PRS403-1-45	Contact Tips (.045)	2

Tregaskiss® Toughlock® to Traditional Tregaskiss®

Convert from Tregaskiss Toughlock consumables to traditional Tregaskiss consumables

Item	Tough Lock	Traditional
Diffuser Retainer	404-14, 404-18	PRS404
Contact Tip	403-14-30	PRS403-30
	403-14-35	PRS403-35
	403-14-45	PRS403-45
	403-14-52	PRS403-52
	403-14-116	PRS403-116
	403-12-35	PRS403-2-35
	403-12-45	PRS403-2-45
Nozzles	Remain the same	



Item	Tough Lock	Traditional
Diffuser	404-20, 404-26	PRS404-3
Contact Tip	403-20-30	PRS403-1-30
	403-20-35	PRS403-1-35
	403-20-45	PRS403-1-45
	403-20-52	PRS403-1-52
	403-20-116	PRS403-1-116
	403-21-35	PRS403-3-35
	403-21-45	PRS403-3-45
Nozzles	Remain the same	



Lincoln® Magnum® to Tregaskiss

Convert from Lincoln Magnum consumables to traditional Tregaskiss consumables

Item	Magnum PRO	Tregaskiss
Insulator	KP2773-2	PRS402-7
Diffuser	KP2746-1	PRS404-3L
Contact Tip	KP2744-030	PRS403-1-30
	KP2744-035	PRS403-1-35
	KP2744-045	PRS403-1-45
	KP2744-052	PRS403-1-52
	KP2744-116	PRS403-1-116
	KP2744-035T	PRS403-3-35
	KP2744-045T	PRS403-3-45
Nozzles	KP2742-1-38F	PRS401-4-38
	KP2742-1-50R	PRS401-4-50
		PRS401-6-50
	KP2742-1-62R	PRS401-4-62
	KP2742-1-62S	PRS401-8-62



ProStar™ Tregaskiss® Style MIG Consumables

Liners Shock Washers Diffusers/Retainers Contact Tips Nozzles

TREGASKISS STYLE STANDARD SETUP (2-PIECE RETAINER & DIFFUSER)



TREGASKISS STYLE HEAVY DUTY SETUP (2-PIECE RETAINER & DIFFUSER)



TREGASKISS STYLE HEAVY DUTY SETUP (1-PIECE RETAINER/DIFFUSER)



Contact Tips



Standard 10/pkg	Tampered 10/pkg	Heavy Duty 10/pkg	HD Tapered 10/pkg	Size
PRS403-30	—	PRS403-1-30	—	.030" (0.6mm)
PRS403-35	PRS403-2-35	PRS403-1-35	PRS403-3-35	.035" (0.9mm)
PRS403-40	—	PRS403-1-40	—	.040" (1.0mm)
PRS403-45	PRS403-2-45	PRS403-1-45	PRS403-3-45	.045" (1.2mm)
PRS403-52	—	PRS403-1-52	—	.052" (1.3mm)
PRS403-116	—	PRS403-1-116	—	1/16" (1.6mm)
—	—	PRS403-1-332	—	3/32" 2.4mm)

Shock Washers



Part No.	Description	Qty
RS402-5	Heavy Duty Shock Washer	5/pkg

Diffusers/Retainers



Part No.	Description	Qty
PRS402-3	Nozzle Retainer	5/pkg



Part No.	Description	Qty
PRS404	Gas Diffuser for STD Contact Tips	5/pkg
PRS404-1	Gas Diffuser for HD Contact Tips	5/pkg



Part No.	Description	Qty
PRS402-7	Shock Washer, Standard	5/pkg



Part No.	Description	Qty
PRS402-4	Retainer Ring Only	5/pkg
PRS404-3	Retainer/Diffuser For HD Contact Tips	5/pkg
PRS404-13	Retainer/Diffuser, w/ Set Screw for HD Tips	5/pkg

Tregaskiss® Style MIG Consumables

Nozzles



Part No.	Wire Type	Dia	Qty
PRS401-4-38	Insulated Flush	3/8"	2/pkg
PRS401-4-50	Insulated 1/8" Recess	1/2"	2/pkg
PRS401-4-62	Insulated 1/8" Recess	5/8"	2/pkg
PRS401-4-75	Insulated 1/8" Recess	3/4"	2/pkg

Part No.	Wire Type	Dia	Qty
PRS401-5-62	HD Insulated 1/4" Recess	5/8"	2/pkg
PRS401-5-75	HD Insulated 1/4" Recess	3/4"	2/pkg
PRS401-6-50	HD Insulated 1/8" Recess	1/2"	2/pkg
PRS401-6-62	HD Insulated 1/8" Recess	5/8"	2/pkg
PRS401-6-75	HD Insulated 1/8" Recess	3/4"	2/pkg
PRS401-8-62	HD Insulated 1/8" Stick out	5/8"	2/pkg

Liners



Part No.	Wire Type	Size	Length	Qty
PRS415-35-15	Mild Steel	.035" – .045"	15'	1/pkg
PRS415-35-25	Mild Steel	.035" – .045"	25'	1/pkg
PRS415-116-15	Mild Steel	.045" – 1/16"	15'	1/pkg
PRS415-116-2	Stainless Steel	.045" – 1/16"	15'	1/pkg
PRS415-116-6	Mild Steel	.045" – 1/16"	6'	1/pkg
PRS415-116-25	Mild Steel	.045" – 1/16"	25'	1/pkg
PRS415-332-15	Mild Steel	.078" – 3/32"	15'	1/pkg

Conductor Tubes



Part No.	Wire Type	Gun	Qty
PRS305-60	Body Tube 60°	300 Amp	1/pkg
PRS405-45	Body Tube 45°	400 Amp	1/pkg
PRS405-60	Body Tube 60°	400 Amp	1/pkg

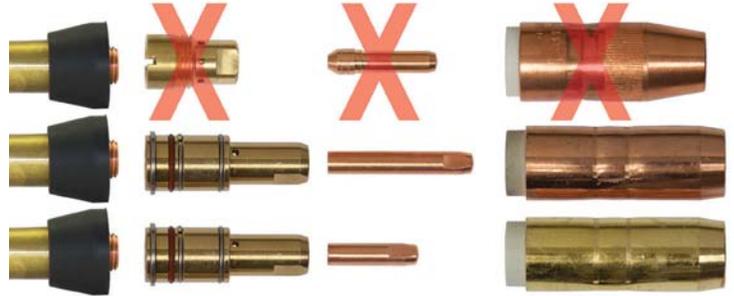
Universal Liners Bernard® / Tregaskiss®



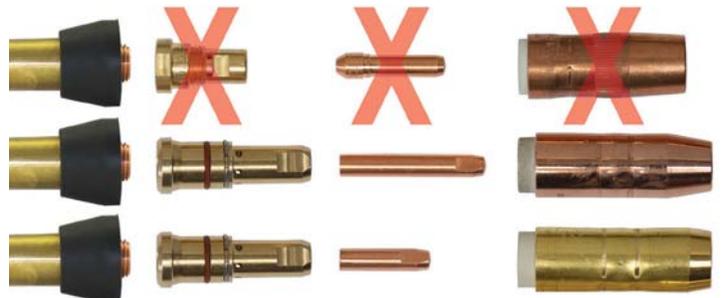
Part No.	Size	Length	Liner Color	Replace Bernard® #	Replace Tregaskiss #	Qty
PRSL1A-15	.023" – .030"	15'	Yellow	43015	415-23-15	1/pkg
PRSL3A-15	.035" – .045"	15'	White	44115	415-35-15	1/pkg
PRSL3A-25	.035" – .045"	25'	White	44125	415-35-25	1/pkg
PRSL3B-15	.035" – .045"	15'	White	43115	—	1/pkg
PRSL3B-25	.035" – .045"	25'	White	43125	—	1/pkg
PRSL4A-15	.045" – 1/16"	15'	Red	44215	415-116-15	1/pkg
PRSL4A-25	.045" – 1/16"	25'	Red	44225	415-116-25	1/pkg
PRSL5A-15	1/16" – 5/64"	15'	Orange	44315	415-564-15	1/pkg
PRSL5A-25	1/16" – 5/64"	25'	Orange	44325	415-564-25	1/pkg
PRSL6A-15	5/64"	15'	Blue	45415	415-332-15	1/pkg
PRSL6A-25	5/64"	25'	Blue	45425	415-332-25	1/pkg
PRSL7A-15	3/32"	15'	Gray	45615	—	1/pkg
PRSL7A-25	3/32"	25'	Gray	45625	—	1/pkg

Bernard® Centerfire™ to Traditional Bernard
Convert from *Bernard Centerfire* consumables to traditional *Bernard* consumables

Item	Centerfire	Traditional Long Tip	Traditional Short Tip
Diffuser	D-1	PRS4635	PRS4435
Contact Tip	T-030	PRS1588	PRS7488
	T-035	PRS1589	PRS7489
	T-045	PRS1590	PRS7490
	T-052	PRS1598	PRS7498
	T-062	PRS1591	PRS7491
	T-078	PRS1592	PRS7492
	T-094	PRS1593	PRS7493
Nozzles	N-5800C N-5818C N-5814C	PRS4592	
	N-5800B N-5818B N-5814B	PRS4492	
	N-3400C N-3418C N-3414C	PRS4591	
	N-3418B N-3414B	PRS4491	



Item	Centerfire	Traditional Long Tip	Traditional Short Tip
Diffuser	DS-1	PRS4235	PRS4335
Contact Tip	T-030	PRS1588	PRS7488
	T-035	PRS1589	PRS7489
	T-045	PRS1590	PRS7490
	T-052	PRS1598	PRS7498
	T-062	PRS1591	PRS7491
	T-078	PRS1592	PRS7492
	T-094	PRS1593	PRS7493
Nozzles	NS-1218C NS-1200B NS-1218B	PRS4394	
	NS-5800C NS-5818C	PRS4393	
	NS-5800B NS-5818B NS-5814B	PRS4391	



Item	Centerfire	Traditional Tapered Tip
Diffuser	DS-1	PRS4335
Contact Tips	TT-035 TT-045	PRS4281 PRS4282
	Nozzles	NS-5800B NS-5818B



ProStar™ Bernard® Style MIG Consumables

Liners

Insulators

Diffusers

Contact Tips

Nozzles

BERNARD STYLE TAPERED NOZZLE SETUP



BERNARD STYLE SMALL NOZZLE WITH SHORT CONTACT TIP SETUP



BERNARD STYLE SMALL NOZZLE WITH LONG CONTACT TIP SETUP



BERNARD STYLE LARGE NOZZLE WITH SHORT CONTACT TIP SETUP



BERNARD STYLE LARGE NOZZLE WITH LONG CONTACT TIP SETUP



ARC ACCESSORIES

Contact Tips



A. Std 25/pkg Use With: 4335 & 4435 Diffusers	Std 25/pkg use with 4235 & 4635 Diffusers	Tapered 25/ pkg use with 4335 Diffuser	Size
PRS7497	PRS1597	—	.023" (0.6mm)
PRS7488	PRS1588	—	.030" (0.6mm)
PRS7489	PRS1589	PRS4281	.035" (0.9mm)
PRS7496	—	—	.040" (1.0mm)
PRS7490	PRS1590	PRS4282	.045" (1.2mm)
PRS7498	PRS1598	—	.052" (1.3mm)
PRS7491	PRS1591	—	1/16" (1.6mm)
PRS7492	PRS1592	—	5/64" (2.0mm)
PRS7493	PRS1593	—	3/32" (2.4mm)

Diffusers



Part No.	Description	Qty
PRS4235	Gas Diffuser: use with 1500 Series Tips	5/pkg
PRS4335	Gas Diffuser: use with 7400 & 4200 Series Tips	5/pkg



Part No.	Description	Qty
PRS4435	Gas Diffuser: use with 7400 Series tips	5/pkg
PRS4635	Gas Diffuser: use with 1500 Series tips	5/pkg

Bernard® Style MIG Consumables

Nozzles



Part No.	Description	Dia	Qty
PRS4295	Brass Tapered	1/2"	2/pkg



Part No.	Description	Dia	Qty
PRS4491	Brass	3/4"	2/pkg
PRS4492	Brass	9/16"	2/pkg
PRS4591	Copper	3/4"	2/pkg
PRS4592	Copper	9/16"	2/pkg



Part No.	Description	Dia	Qty
PRS4391	Brass	5/8"	2/pkg
PRS4392	Brass	1/2"	2/pkg
PRS4393	Copper	5/8"	2/pkg
PRS4394	Copper	1/2"	2/pkg

Insulator Caps



Part No.	Description	Guns	Qty
PRS4323R	Insulator Cap	200-300 Amp	5/pkg
PRS4423R	Insulator Cap	350-500 Amp	5/pkg

Liners



Part No.	Description	Dia	Qty
PRS43015	Wire Conduit	.023" - .030"	1/pkg
PRS43115	Wire Conduit	.035" - .045"	1/pkg
PRS43215	Wire Conduit	.045" - 1/16"	1/pkg
PRS44115	Wire Conduit	.035" - .045"	1/pkg

Conductor Tubes



Part No.	Description	Guns	Qty
PRS4786	Body Tube	200-300 Amp	1/pkg
PRS4790	Body Tube	400-500 Amp	1/pkg

Universal Liners

Bernard / Tregaskiss®



Part No.	Size	Length	Liner Color	Replace Bernard #	Replace Tregaskiss #	Qty
PRSL1A-15	.023" - .030"	15'	Yellow	43015	415-23-15	1/pkg
PRSL3A-15	.035" - .045"	15'	White	44115	415-35-15	1/pkg
PRSL3A-25	.035" - .045"	25'	White	44125	415-35-25	1/pkg
PRSL3B-15	.035" - .045"	15'	White	43115	—	1/pkg
PRSL3B-25	.035" - .045"	25'	White	43125	—	1/pkg
PRSL4A-15	.045" - 1/16"	15'	Red	44215	415-116-15	1/pkg
PRSL4A-25	.045" - 1/16"	25'	Red	44225	415-116-25	1/pkg
PRSL5A-15	1/16" - 5/64"	15'	Orange	44315	415-564-15	1/pkg
PRSL5A-25	1/16" - 5/64"	25'	Orange	44325	415-564-25	1/pkg
PRSL6A-15	5/64"	15'	Blue	45415	415-332-15	1/pkg
PRSL6A-25	5/64"	25'	Blue	45425	415-332-25	1/pkg
PRSL7A-15	3/32"	15'	Gray	45615	—	1/pkg
PRSL7A-25	3/32"	25'	Gray	45625	—	1/pkg

ProStar™ Miller® Style MIG Consumables

Liners

Diffusers/Retainers

Contact Tips

Nozzles

MILLER STYLE M10, M15 SETUP



MILLER STYLE M25/25M, M40/40AL SETUP



Contact Tips



Part No.	Size	Qty
PRS087299	.023" (0.6mm)	10/pkg
PRS000067	.030" (0.8mm)	10/pkg
PRS000068	.035" (0.9mm)	10/pkg
PRS000069	.045" (1.2mm)	10/pkg
PRS172024	1/16" (1.6mm)	10/pkg
PRS172025	5/64" (2.0mm)	10/pkg
PRS172034	3/64" (1.2mm)	10/pkg

Diffusers/Retainers



Part No.	Description	Qty
PRS169716	Nozzle Retainer/Diffuser	2/pkg



Part No.	Description	Qty
PRS169729	Nozzle Retainer	2/pkg



Part No.	Description	Qty
PRS169728	Tip Adapter/Diffuser	5/pkg

Nozzles



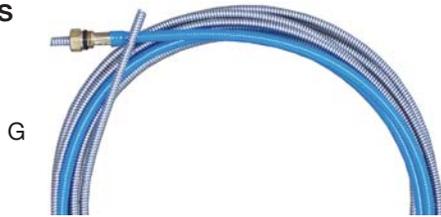
Part No.	Description	Dia	Qty
PRS169715	Nozzle, Flush	1/2"	1/pkg



Part No.	Description	Dia	Qty
PRS169724	Nozzle, 1/8" Tip Recess	1/2"	1/pkg
PRS200258	Nozzle, Flush	1/2"	1/pkg
PRS169725	Nozzle, 1/8" Tip Recess	5/8"	1/pkg
PRS169726	Nozzle, Flush	5/8"	1/pkg
PRS169727	Nozzle, 1/8" Tip Stick Out	5/8"	1/pkg

ProStar™ Miller® Style MIG Consumables

Liners



Part No.	Size	Length	Qty
PRS194010	.023" – .025"	15'	1/pkg
PRS194011	.030" – .035"	15'	1/pkg
PRS194012	.035" – .045"	15'	1/pkg

Tips and Nozzles for Miller Spoolguns



Part No.	Description	Dia	Qty
PRS050115	Nozzle	1/2"	1/pkg
PRS050622	Nozzle	5/8"	1/pkg

Guns: Spoolmatic® 1, 2, 3, 30A/XR™s, XRM™s



Part No.	Use With	Size	ID	Qty
PRS135427	Steel Wire	.030"	.035"	10/pkg
PRS135428	Aluminum Wire	.030"	.040"	10/pkg
PRS147314	Steel Wire	.035"	.041"	10/pkg
PRS135430	Aluminum Wire	.035"	.050"	10/pkg
PRS135429	Steel Wire	.047"	.054"	10/pkg
PRS135424	Aluminum Wire	.047"	.059"	10/pkg
PRS135426	Steel Wire	.062"	.073"	10/pkg
PRS135425	Aluminum Wire	.062"	.078"	10/pkg

Guns: XR/XRM-15A/30A and 15W/30W XR-Edge and Spoolmatic 30A/30W

ProStar ESAB® Style MIG Consumables

Contact Tips



Part No.	Size	Length	Qty
PRS996995	Medium	.035" (0.9mm)	10/pkg
PRS996996	Long	.035" (0.9mm)	10/pkg
PRS996999	Medium	.045" (1.2mm)	10/pkg

Nozzles



Part No.	Description	Dia	Qty
PRS998893	Standard Duty #8	1/2"	2/pkg
PRS998894	Standard Duty #10	5/8"	2/pkg

ProStar™ TIG Torches



ARC ACCESSORIES

ProStar Air Cooled TIG Torch Packages B30

ProStar Water Cooled TIG Torch Packages B31

ProStar Modular TIG Kits B33

ProStar 150M & 200M Modular TIG Torches B34

ProStar 225M Modular TIG Torches B35

ProStar 9FMT Series TIG Torches B36

ProStar 17FMT Series TIG Torches B37

ProStar 24FMT Series TIG Torches B38

ProStar 26FMT Series TIG Torches B39

ProStar 9 Series TIG Torches & Setups B40

ProStar 17 Series TIG Torches & Setups B42

ProStar 18 Series TIG Torches & Setups B44

ProStar 20 & 25 Series TIG Torches & Setups B46

ProStar 22 Series TIG Torches B48

ProStar 24 Series TIG Torches B49

ProStar 26 Series TIG Torches & Setups B50

ProStar 27 Series TIG Torches B52

ProStar 12 Series TIG Torches B53

ProStar™ Air Cooled TIG Torch Packages

80 AMP 24 SERIES

See page B49

Part No.	Description	Part No.	Description
PRS24-12-R	Torch pkg 12.5' Rubber	PRS24-25-R	Torch pkg 25' Rubber
PRS24N-12-R	Torch pkg 90° Head 12.5' Rubber	PRS24N-25-R	Torch pkg 90° Head 25' Rubber
PRS24V-12-R	Torch pkg w/Valve 12.5' Rubber	PRS24V-25-R	Torch pkg w/Valve 25' Rubber

80 AMP 24FMT SERIES COMPONENT TORCH

See page B38

Part No.	Description	Part No.	Description
PRS24FMT-12-R	Torch pkg Flex 12.5' Rubber	PRS24FMT-12-2	Torch pkg Flex 12.5' 2 Piece
PRS24FMT-25-R	Torch pkg Flex 25' Rubber	PRS24FMT-25-2	Torch pkg Flex 25' 2 Piece
PRS24FVMT-12-R	Torch pkg Flex w/Valve 12.5' Rubber	PRS24FVMT-12-2	Torch pkg Flex w/Valve 12.5' 2 Piece
PRS24FVMT-25-R	Torch pkg Flex w/Valve 25' Rubber	PRS24FVMT-25-2	Torch pkg Flex w/Valve 25' 2 Piece

125 AMP 9 SERIES

See pages B40 – B41

Part No.	Description	Part No.	Description
PRS9-12-R	Torch pkg 12.5' Rubber	PRS9-12-2	Torch pkg 12.5' 2 Piece
PRS9-25-R	Torch pkg 25' Rubber	PRS9-25-2	Torch pkg 25' 2 Piece
PRS9F-12-R	Torch pkg Flex 12.5' Rubber	PRS9F-12-2	Torch pkg Flex 12.5' 2 Piece
PRS9F-25-R	Torch pkg Flex 25' Rubber	PRS9F-25-2	Torch pkg Flex 25' 2 Piece
PRS9FV-12-R	Torch pkg Flex w/Valve 12.5' Rubber	PRS9FV-12-2	Torch pkg Flex w/Valve 12.5' 2 Piece
PRS9FV-25-R	Torch pkg Flex w/Valve 25' Rubber	PRS9FV-25-2	Torch pkg Flex w/Valve 25' 2 Piece
PRS9V-12-R	Torch pkg w/Valve 12.5' Rubber	PRS9V-12-2	Torch pkg w/Valve 12.5' 2 Piece
PRS9V-25-R	Torch pkg w/Valve 25' Rubber	PRS9V-25-2	Torch pkg w/Valve 25' 2 Piece

125 AMP 9 SERIES PENCIL TORCH

See pages B40 – B41

Part No.	Description	Part No.	Description
PRS9P-12-R	Torch pkg 180° Machine 12.5' Rubber	PRS9P-12-2	Torch pkg 180° Machine 12.5' 2 Piece
PRS9P-25-R	Torch pkg 180° Machine 25' Rubber	PRS9P-25-2	Torch pkg 180° Machine 25' 2 Piece

125 AMP 9FMT SERIES COMPONENT TORCH

See page B36

Part No.	Description	Part No.	Description
PRS9FMT-12-R	Torch pkg Flex 12.5' Rubber	PRS9FMT-12-2	Torch pkg Flex 12.5' 2 Piece
PRS9FMT-25-R	Torch pkg Flex 25' Rubber	PRS9FMT-25-2	Torch pkg Flex 25' 2 Piece
PRS9FVMT-12-R	Torch pkg Flex w/Valve 12.5' Rubber	PRS9FVMT-12-2	Torch pkg Flex w/Valve 12.5' 2 Piece
PRS9FVMT-25-R	Torch pkg Flex w/Valve 25' Rubber	PRS9FVMT-25-2	Torch pkg Flex w/Valve 25' 2 Piece

150 AMP 17 SERIES

See pages B42 – B43

Part No.	Description	Part No.	Description
PRS17-12-R	Torch pkg 12.5' Rubber	PRS17-12-2	Torch pkg 12.5' 2 Piece
PRS17-25-R	Torch pkg 25' Rubber	PRS17-25-2	Torch pkg 25' 2 Piece
PRS17F-12-R	Torch pkg Flex 12.5' Rubber	PRS17F-12-2	Torch pkg Flex 12.5' 2 Piece
PRS17F-25-R	Torch pkg Flex 25' Rubber	PRS17F-25-2	Torch pkg Flex 25' 2 Piece
PRS17FV-12-R	Torch pkg Flex w/Valve 12.5' Rubber	PRS17FV-12-2	Torch pkg Flex w/Valve 12.5' 2 Piece
PRS17FV-25-R	Torch pkg Flex w/Valve 25' Rubber	PRS17FV-25-2	Torch pkg Flex w/Valve 25' 2 Piece
PRS17V-12-R	Torch pkg w/Valve 12.5' Rubber	PRS17V-12-2	Torch pkg w/Valve 12.5' 2 Piece
PRS17V-25-R	Torch pkg w/Valve 25' Rubber	PRS17V-25-2	Torch pkg w/Valve 25' 2 Piece

150 AMP 17FMT SERIES COMPONENT TORCH

See page B37

Part No.	Description	Part No.	Description
PRS17FMT-12-R	Torch pkg Flex 12.5' Rubber	PRS17FMT-12-2	Torch pkg Flex 12.5' 2 Piece
PRS17FMT-25-R	Torch pkg Flex 25' Rubber	PRS17FMT-25-2	Torch pkg Flex 25' 2 Piece
PRS17FVMT-12-R	Torch pkg Flex w/Valve 12.5' Rubber	PRS17FVMT-12-2	Torch pkg Flex w/Valve 12.5' 2 Piece
PRS17FVMT-25-R	Torch pkg Flex w/Valve 25' Rubber	PRS17FVMT-25-2	Torch pkg Flex w/Valve 25' 2 Piece

ProStar™ Air Cooled TIG Torch Packages

150 AMP 150M MODULAR TORCH

See page B34

Part No.	Description	Part No.	Description
PRS150M-12-R	Torch pkg 12.5' Rubber	PRS150M-12-2	Torch pkg 12.5' 2 Piece
PRS150M-25-R	Torch pkg 25' Rubber	PRS150M-25-2	Torch pkg 25' 2 Piece
PRS150VM-12-R	Torch pkg w/Valve 12.5' Rubber	PRS150VM-12-2	Torch pkg w/Valve 12.5' 2 Piece
PRS150VM-25-R	Torch pkg w/Valve 25' Rubber	PRS150VM-25-2	Torch pkg w/Valve 25' 2 Piece

200 AMP 26 SERIES

See pages B50 – B51

Part No.	Description	Part No.	Description
PRS26-12-R	Torch pkg 12.5' Rubber	PRS26-12-2	Torch pkg 12.5' 2 Piece
PRS26-25-R	Torch pkg 25' Rubber	PRS26-25-2	Torch pkg 25' 2 Piece
PRS26F-12-R	Torch pkg Flex 12.5' Rubber	PRS26F-12-2	Torch pkg Flex 12.5' 2 Piece
PRS26F-25-R	Torch pkg Flex 25' Rubber	PRS26F-25-2	Torch pkg Flex 25' 2 Piece
PRS26FV-12-R	Torch pkg Flex w/Valve 12.5' Rubber	PRS26FV-12-2	Torch pkg Flex w/Valve 12.5' 2 Piece
PRS26FV-25-R	Torch pkg Flex w/Valve 25' Rubber	PRS26FV-25-2	Torch pkg Flex w/Valve 25' 2 Piece
PRS26V-12-R	Torch pkg w/Valve 12.5' Rubber	PRS26V-12-2	Torch pkg w/Valve 12.5' 2 Piece
PRS26V-25-R	Torch pkg w/Valve 25' Rubber	PRS26V-25-2	Torch pkg w/Valve 25' 2 Piece

200 AMP 26FMT SERIES COMPONENT TORCH

See page B39

Part No.	Description	Part No.	Description
PRS26FMT-12-R	Torch pkg Flex 12.5' Rubber	PRS26FMT-12-2	Torch pkg Flex 12.5' 2 Piece
PRS26FMT-25-R	Torch pkg Flex 25' Rubber	PRS26FMT-25-2	Torch pkg Flex 25' 2 Piece
PRS26FVMT-12-R	Torch pkg Flex w/Valve 12.5' Rubber	PRS26FVMT-12-2	Torch pkg Flex w/Valve 12.5' 2 Piece
PRS26FVMT-25-R	Torch pkg Flex w/Valve 25' Rubber	PRS26FVMT-25-2	Torch pkg Flex w/Valve 25' 2 Piece

200 AMP 200M SERIES MODULAR TORCH

See page B34

Part No.	Description	Part No.	Description
PRS200M-12-R	Torch pkg 12.5' Rubber	PRS200M-12-2	Torch pkg 12.5' 2 Piece
PRS200M-25-R	Torch pkg 25' Rubber	PRS200M-25-2	Torch pkg 25' 2 Piece
PRS200VM-12-R	Torch pkg w/Valve 12.5' Rubber	PRS200VM-12-2	Torch pkg w/Valve 12.5' 2 Piece
PRS200VM-25-R	Torch pkg w/Valve 25' Rubber	PRS200VM-25-2	Torch pkg w/Valve 25' 2 Piece

ProStar Water Cooled TIG Torch Packages

180 AMP 24 SERIES

See page B49

Part No.	Description	Part No.	Description
PRS24W-12	Torch pkg 12.5' Vinyl	PRS24W-12-R	Torch pkg 12.5' Rubber
PRS24W-25	Torch pkg 25' Vinyl	PRS24W-25-R	Torch pkg 25' Rubber
PRS24WN-12	Torch pkg 90° Head 12.5' Vinyl	PRS24WN-12-R	Torch pkg 90° Head 12.5' Rubber
PRS24WN-25	Torch pkg 90° Head 25' Vinyl	PRS24WN-25-R	Torch pkg 90° Head 25' Rubber

200 AMP 25 SERIES FLEX PENCIL TORCH

See pages B46 – B47

Part No.	Description	Part No.	Description
PRS25-12	Torch pkg Machine Flex 12.5' Vinyl	PRS25-12-R	Torch pkg Machine Flex 12.5' Rubber
PRS25-25	Torch pkg Machine Flex 25' Vinyl	PRS25-25-R	Torch pkg Machine Flex 25' Rubber

ProStar™ Water Cooled TIG Torch Packages

→ *continued*

225 AMP 225M SERIES MODULAR TORCH

▶ See page B35

Part No.	Description	Part No.	Description
PRS225M-12	Torch pkg Flex 12.5' Vinyl	PRS225M-12-R	Torch pkg Flex 12.5' Braided Rubber
PRS225M-25	Torch pkg Flex 25' Vinyl	PRS225M-25-R	Torch pkg Flex 25' Braided Rubber

250 AMP 20 SERIES

▶ See pages B46 – B47

Part No.	Description	Part No.	Description
PRS20-12	Torch pkg 12.5' Vinyl	PRS20-12-R	Torch pkg 12.5' Rubber
PRS20-25	Torch pkg 25' Vinyl	PRS20-25-R	Torch pkg 25' Rubber
PRS20F-12	Torch pkg Flex 12.5' Vinyl	PRS20F-12-R	Torch pkg Flex 12.5' Rubber
PRS20F-25	Torch pkg Flex 25' Vinyl	PRS20F-25-R	Torch pkg Flex 25' Rubber
PRS20M-12	Torch pkg Mechanical Fittings 12.5' Vinyl	PRS20M-12-R	Torch pkg Mechanical Fittings 12.5' Rubber
PRS20M-25	Torch pkg Mechanical Fittings 25' Vinyl	PRS20M-25-R	Torch pkg Mechanical Fittings 25' Rubber

250 AMP 20 SERIES PENCIL TORCH

▶ See pages B46 – B47

Part No.	Description	Part No.	Description
PRS20P-12	Torch pkg 180° Machine 12.5' Vinyl	PRS20P-12-R	Torch pkg 180° Machine 12.5' Rubber
PRS20P-25	Torch pkg 180° Machine 25' Vinyl	PRS20P-25-R	Torch pkg 180° Machine 25' Rubber

250 AMP 22 SERIES

▶ See page B48

Part No.	Description	Part No.	Description
PRS22A-12	Torch pkg 180° 7" Machine 12.5' Rubber	PRS22A-25	Torch pkg 180° 7" Machine 12.5' Rubber
PRS22B-25	Torch pkg 180° 3" Machine 25' Rubber	PRS22B-25	Torch pkg 180° 3" Machine 25' Rubber

350 AMP 18 SERIES

See pages B44 – B45

Part No.	Description	Part No.	Description
PRS18-12	Torch pkg 12.5' Vinyl	PRS18-12-R	Torch pkg 12.5' Rubber
PRS18-25	Torch pkg 25' Vinyl	PRS18-25-R	Torch pkg 25' Rubber
PRS18F-12	Torch pkg Flex 12.5' Vinyl	PRS18F-12-R	Torch pkg Flex 12.5' Rubber
PRS18F-25	Torch pkg Flex 25' Vinyl	PRS18F-25-R	Torch pkg Flex 25' Rubber
PRS18V-12	Torch pkg w/Valve 12.5' Vinyl	PRS18V-12-R	Torch pkg w/Valve 12.5' Rubber
PRS18V-25	Torch pkg w/Valve 25' Vinyl	PRS18V-25-R	Torch pkg w/Valve 25' Rubber

500 AMP 18 SERIES MACHINE TORCH

▶ See pages B44 – B45

Part No.	Description	Part No.	Description
PRS18P-12	Torch pkg 180° Machine 12.5' Rubber	PRS18P-25	Torch pkg 180° Machine 25' Rubber

500 AMP 12 SERIES

▶ See page B53

Part No.	Description	Part No.	Description
PRS12-12	Torch pkg 12.5' Rubber	PRS12-25	Torch pkg 25' Rubber

500 AMP 27 SERIES

▶ See page B52

Part No.	Description	Part No.	Description
PRS27A-12	Torch pkg 180° 9" Machine 12.5' Rubber	PRS27A-25	Torch pkg 180° 9" Machine 25' Rubber
PRS27B-12	Torch pkg 180° 2" Machine 12.5' Rubber	PRS27B-25	Torch pkg 180° 20" Machine 25' Rubber

ProStar™ Modular TIG Torch Kits

MODULAR AIR-COOLED TIG TORCH KITS

Part No.	Description
PRSM-150-R	150 Amp Air-cooled TIG kit, 25ft
PRSM-200-R	200 Amp Air-cooled TIG kit, 25ft
Air-Cooled Kits Come with:	
Torch Package with 25 ft Power Cable (2) Torch Bodies (1 with Valve and 1 without Valve) (2) Elements (1 Solid and 1 Flex) (5) Back Caps (5) Heads: PRS1726M, PRS1726PM, PRS9PM, PRS9-90M, PRS24-90M Collets, Collet Bodies and Nozzles to Fit all Torch Heads and Tungsten	
PRSM-150-R Kit Comes with:	PRSM-200-R Kit Comes with:
1 Piece Each: .040", 1/16", and 3/32" E3® Tungsten	1 Piece Each: 1/16", 3/32", and 1/8" E3® Tungsten

MODULAR WATER-COOLED TIG TORCH KITS

Part No.	Description
PRSM-225-R	225 Amp Water-cooled TIG kit, 25ft
Water-Cooled Kits Come with:	
Torch Package with 25 ft Power Cable (5) Back Caps (5) Heads: PRS1726M, PRS1726PM, PRS9PM, PRS9-90M, PRS24-90M 1 Piece Each: 1/16", 3/32", and 1/8" E3® Tungsten Collets, Collet Bodies and Nozzles to Fit All Torch Heads	



Ships in a reusable aluminum case

ARC ACCESSORIES

What is the “Modular” Advantage?

Weld-joint accessibility!



ProStar™ 150M & 200M Modular TIG Torches

150 and 200 Amp Air Cooled

Available Torch Packages
 Consumables for PRS1726M & PRS1726PM
 Consumables for PRS9-70M, PRS9-90M & PRS9PM
 Consumables for PRS24M & PRS24-90M

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 Page B35

PRS150M - 12 - R

Torch Package
 Part Number

PRS150M
 PRS150VM

150 Amp Flex Torch
 150 Amp Flex Torch w/Valve



#	Description	Part No.
1	Torch Head 200 Amp 60°	PRS1726M
2	Torch Head 200 Amp 180°	PRS1726PM
3	Torch Head 125 Amp 70°	PRS9-70M
4	Torch Head 125 Amp 90°	PRS9-90M
5	Torch Head 125 Amp 180°	PRS9PM
6	Torch Head 80 Amp 70°	PRS24M
7	Torch Head 80 Amp 90°	PRS24-90M

#	Description	Part No.
8	Torch, 150 Amp	PRS150M
9	Torch, 150 Amp w/ Valve	PRS150VM
10	Valve Stem	PRSVS-2
11	Flex Element 150 Amp	PRS150CEM
12	Solid Element 150 Amp	PRS150SEM
13	Body 150 Amp	PRS150TBM
14	Body 150 Amp w/ Valve	PRS150VTBM

#	Description	Part No.
15	Handle, Ribbed	PRS105Z55R
16	Power Cable 12.5' 1pc	PRS57Y01R
	Power Cable 25' 1pc	PRS57Y03R
17	Power Cable 12.5' 2pc	PRS57Y01-2
	Power Cable 25' 2pc	PRS57Y03-2



#	Description	Part No.
1	Torch Head 200 Amp 60°	PRS1726M
2	Torch Head 200 Amp 180°	PRS1726PM
3	Torch Head 125 Amp 70°	PRS9-70M
4	Torch Head 125 Amp 90°	PRS9-90M
5	Torch Head 125 Amp 180°	PRS9PM
6	Torch Head 80 Amp 70°	PRS24M
7	Torch Head 80 Amp 90°	PRS24-90M

#	Description	Part No.
8	Torch, 200 Amp	PRS200M
9	Torch, 200 Amp w/ Valve	PRS200VM
10	Valve Stem	PRSVS-1
11	Flex Element 200 Amp	PRS200CEM
12	Solid Element 200 Amp	PRS200SEM
13	Body 200 Amp	PRS200TBM
14	Body 200 Amp w/ Valve	PRS200VTBM

#	Description	Part No.
15	Handle, Ribbed	PRS10N15R
16	Power Cable 12.5' 1pc	PRS46V28-R
	Power Cable 25' 1pc	PRS46V30-R
17	Power Cable 12.5' 2pc	PRS46V28-2
	Power Cable 25' 2pc	PRS46V30-2

ProStar™ 225M Modular TIG Torches

225 Amp Water Cooled

Available Torch Packages

Consumables for PRS1726M & PRS1726PM

Consumables for PRS9-70M, PRS9-90M & PRS9PM

Consumables for PRS24M & PRS24-90M

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PRS225M - 12 - R

Torch Package
Part Number

PRS225M

225 Amp Flex Torch

12

12.5 feet

25

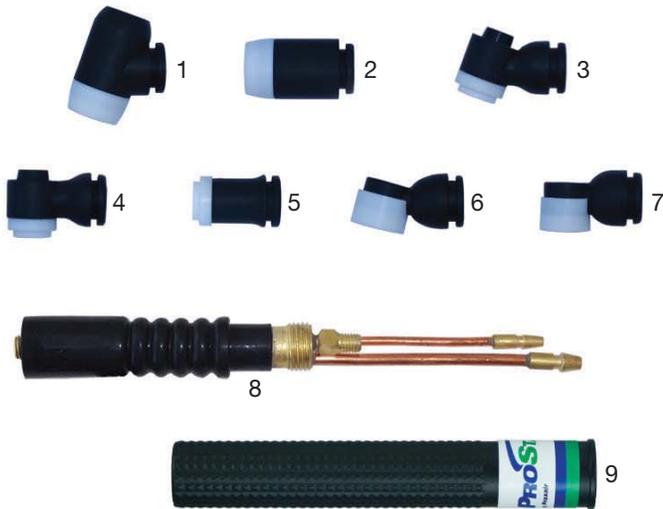
25 feet

R

Rubber Power Cable & Hoses

Blank

Vinyl Power Cable & Hoses



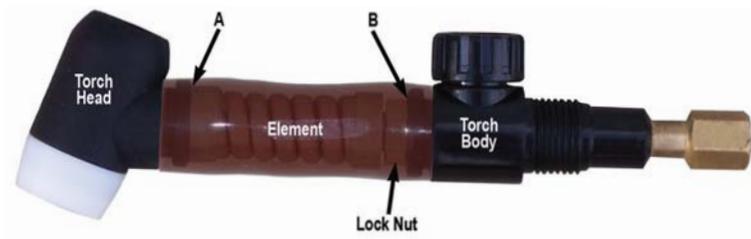
#	Description	Part No.
1	Torch Head 200 Amp 60°	PRS1726M
2	Torch Head 200 Amp 180°	PRS1726PM
3	Torch Head 125 Amp 70°	PRS9-70M
4	Torch Head 125 Amp 90°	PRS9-90M
5	Torch Head 125 Amp 180°	PRS9PM
6	Torch Head 80 Amp 70°	PRS24M
7	Torch Head 80 Amp 90°	PRS24-90M
8	Torch Body	PRS225M

#	Description	Part No.
9	Handle	PRS53N06
10	Power Cable 12.5' Rubber	PRS45V03R
	Power Cable 25' Rubber	PRS45V04R
11	Water Hose 12.5' Rubber	PRS45V07R
	Water Hose 25' Rubber	PRS45V08R
12	Gas Hose 12.5' Rubber	PRS45V09R
	Gas Hose 25' Rubber	PRS45V10R
13	Hose Clamp	PRS53N04

#	Description	Part No.
14	Power Cable 12.5' Vinyl	PRS45V03
	Power Cable 25' Vinyl	PRS45V04
15	Water Hose 12.5' Vinyl	PRS45V07
	Water Hose 25' Vinyl	PRS45V08
16	Gas Hose 12.5' Vinyl	PRS45V09
	Gas Hose 25' Vinyl	PRS45V10

Modular Torch Head Installation

- Screw element into torch head at point A. This should be done as tightly as possible, using hands only
- Assure that lock nut is screwed all the way down onto the element
- Screw element into torch body at point B, align torch head with torch body
- While keeping torch head and body aligned, tighten lock nut



ProStar™ 9FMT Series TIG Torches

125 Amp Air Cooled

Electrode Range .020"-3/32" (0.5 mm-2.4 mm)
 Head Angle 90 Degrees
 Available Torch Packages Page B30
 Other Consumable Set-ups Page B41

PRS9FMT - 12 - R

Torch Package
Part Number



- PRS9FMT 125 Amp Flex Torch
- PRS9FVMT 125 Amp Flex Torch w/Valve
- 12 12.5 feet
- 25 25 feet
- R 1 Piece Rubber Power Cable
- 2 2 Piece Power Cable

#	Description	Part No.
1	Torch Head	PRS9FM
2	Torch, Flex	PRS9FMT
3	Torch, Flex w/ Valve	PRS9FVMT
4	Torch Body	PRS150TBM
5	Torch Body w/ Valve	PRS150VTBM
6	Back Cap, Long	PRS41V24
7	Back Cap, Medium	PRS41V35
8	Back Cap, Short	PRS41V33
9	Gasket/Insulator	PRS598882
10	Collet	see page B41
11	Collet Body	see page B41
12	Nozzles	see page B41
13	Nozzles	see page B41

#	Description	Part No.
14	Nozzles	see page B41
15	Nozzles	see page B41
16	Nozzles	see page B41
17	Nozzles	see page B41
18	Handle, Ribbed (Std)	PRS105Z55R
19	Handle, Smooth (Opt)	PRS105Z55
20	Power Cable 12.5' 1 piece	PRS57Y01R
	Power Cable 25' 1 piece	PRS57Y03R
21	Power Cable 12.5' 2 piece	PRS57Y01-2
	Power Cable 25' 2 piece	PRS57Y03-2
22	Power Cable Adapter	PRS105Z57
23	Cable Cover 3"X10'	PRSCC-3-10
	Cable Cover 3"X22'	PRSCC-3-22

#	Description	Part No.
24	Switch Boot, Rubber	PR SBS-1
25	Switch Boot, Snap-on	PR SBS-1S
26	Switch, On-Off	PR SSW-2-0
27	Switch, Momentary Bulb	PR SSW-1
	Switch, Momentary Flat	PR SSW-1F
28	Dinse Connector 50mm	PR SDA-917F
29	Dinse Connector In-line	PR SDI-917F
30	Dinse Connector for 2 piece	PR SDP-50M
31	Dinse Connector 25mm	PR SDA-917FS
32	Dinse Inline 25mm	PR SDI-917FS
33	Dinse Connector for 2 piece	PR SDP-25M
34	Valve Stem	PR SVS-2

ProStar™ 17FMT Series TIG Torches

150 Amp Air Cooled

Electrode Range
Head Angle
Available Torch Packages
Other Consumable Setups

.020"–3/32" (0.5 mm–2.4 mm)
90 Degrees
Pages B30 - B31
Page B42
Other Consumables Set-ups Page B43

PRS17FMT - 12 - R

Torch Package
Part Number

PRS17FMT 150 Amp Flex Torch
PRS17FVMT 150 Amp Flex Torch w/Valve

12 12.5 feet
25 25 feet

R 1 Piece Rubber Power Cable
2 2 Piece Power Cable



#	Description	Part No.
1	Torch Head	PRS17FM
2	Torch, Flex	PRS17FMT
3	Torch, Flex w/ Valve	PRS17FVMT
4	Torch Body	PRS150TBM
5	Torch Body w/ Valve	PRS150VTBM
6	Back Cap, Long	PRS57Y02
7	Back Cap, Medium	PRS300M
8	Back Cap, Short	PRS57Y04
9	Gasket/Insulator	PRS18CG
10	Collet	see page B43
11	Collet Body	see page B43
12	Nozzles	see page B43

#	Description	Part No.
13	Nozzles	see page B43
14	Nozzles	see page B43
15	Nozzles	see page B43
16	Handle, Ribbed (Std)	PRS105Z55R
17	Handle, Smooth (Opt)	PRS105Z55
18	Power Cable 12.5' 1 piece	PRS57Y01R
18	Power Cable 25' 1 piece	PRS57Y03R
19	Power Cable 12.5' 2 piece	PRS57Y01-2
19	Power Cable 25' 2 piece	PRS57Y03-2
20	Cable Cover 3"X10'	PRSCC-3-10
20	Cable Cover 3"X22'	PRSCC-3-22
21	Power Cable Adapter	PRS105Z57

#	Description	Part No.
22	Switch Boot, Rubber	PRSSBS-1
23	Switch Boot, Snap-on	PRSSBS-1S
24	Switch, On-Off	PRSSW2-0
25	Switch, Momentary Bulb	PRSSW-1
25	Switch, Momentary Flat	PRSSW-1F
26	Dinse Connector 50mm	PRSDA-917F
27	Dinse Connector In-line	PRSDI-917F
28	Dinse Connector for 2 piece	PRSDP-50M
29	Dinse Connector 25mm	PRSDA-917FS
30	Dinse Inline 25mm	PRSDI-917FS
31	Dinse Connector for 2 piece	PRSDP-25M
32	Valve Stem	PRSVS-2

ProStar™ 24FMT Series TIG Torches

80 Amp Air Cooled

Electrode Range
Head Angle
Available Torch Packages
Other Consumable Setups

.020"–3/32" (0.5 mm–2.4 mm)
60 Degrees
Page B30
Page B49

PRS24FMT - 12 - R

Torch Package
Part Number

PRS24FMT	80 Amp Flex Torch
PRS24FVMT	80 Amp Flex Torch w/Valve
12	12.5 feet
25	25 feet
R	1 Piece Rubber Power Cable
2	2 Piece Power Cable



#	Description	Part No.
1	Torch Head	PRS24FM
2	Torch, Flex	PRS24FMT
3	Torch, Flex w/Valve	PRS24FVMT
4	Torch Body	PRS150TBM
5	Torch Body w/Valve	PRS150VTBM
6	Gasket/Insulator	PRS53N22
7	Collet	see page B49
8	Collet Body	see page B49
9	Nozzles	see page B49
10	Nozzles	see page B49
11	Nozzles	see page B49
12	Nozzles	see page B49

#	Description	Part No.
12	Nozzles	see page B49
13	Handle, Ribbed (Std)	PRSH-100R
14	Handle, Smooth (Opt)	PRSH-100
15	Power Cable 12.5' 1 piece	PRS57Y01R
15	Power Cable 25' 1 piece	PRS57Y03R
16	Power Cable 12.5' 2 piece	PRS57Y01-2
16	Power Cable 25' 2 piece	PRS57Y03-2
17	Cable Cover 3"X10'	PRSCC-3-10
17	Cable Cover 3"X22'	PRSCC-3-22
18	Switch Boot, Rubber	PRSB-1
19	Switch Boot, Snap-on	PRSB-1S

#	Description	Part No.
20	Switch, On-Off	PRSSW2-0
21	Switch, Momentary Bulb	PRSSW-1
21	Switch, Momentary Flat	PRSSW-1F
22	Power Cable Adapter	PRS105Z57
23	Dinse Connector 50mm	PRSDA-917F
24	Dinse Connector Inline	PRSDI-917F
25	Dinse Connector for 2 piece	PRSDP-50M
26	Dinse Connector 25mm	PRSDA-917FS
27	Dinse Inline 25mm	PRSDI-917FS
28	Dinse Connector for 2 piece	PRSDP-25M
29	Valve Stem	PRSVS-2

ProStar™ 26FMT Series TIG Torches

200 Amp Air Cooled

Electrode Range .020"–1/8" (0.5 mm–3.2 mm)
 Head Angle 90 Degrees
 Available Torch Packages Page B31
 Other Consumable Setups Page B50

PRS26FMT - 12 - R Torch Package Part Number

PRS26FMT	200 Amp Flex Torch
PRS26FVMT	200 Amp Flex Torch w/Valve
12	12.5 feet
25	25 feet
R	1 Piece Rubber Power Cable
2	2 Piece Power Cable



#	Description	Part No.
1	Torch Head	PRS26FM
2	Torch, Flex	PRS26FMT
3	Torch, Flex w/Valve	PRS26FVMT
4	Torch Body w/ Valve	PRS200VTBM
5	Torch Body	PRS200TBM
6	Back Cap, Short	PRS57Y04
7	Back Cap, Medium	PRS300M
8	Back Cap, Long	PRS57Y02
9	Gasket/Insulator	PRS18CG
10	Collet	see page B51
11	Collet Body	see page B51

#	Description	Part No.
12	Nozzles	see page B51
13	Nozzles	see page B51
14	Nozzles	see page B51
15	Nozzles	see page B51
16	Handle, Ribbed (Std)	PRS10N15R
17	Handle, Smooth (Opt)	PRS10N15
18	Power Cable 12.5' 1 piece	PRS46V28-R
	Power Cable 25' 1 piece	PRS46V30-R
19	Power Cable 12.5' 2 piece	PRS46V28-2
	Power Cable 25' 2 piece	PRS46V30-2
20	Power Cable Adapter	PRS45V62

#	Description	Part No.
21	Cable Cover 3"X10'	PRSCC-3-10
	Cable Cover 3"X22'	PRSCC-3-22
22	Switch Boot, Rubber	PRSSBL-1
23	Switch Boot, Snap-on	PRSSBL-1S
24	Switch, On-Off	PRSSW2-0
	Switch, Momentary Bulb	PRSSW-1
25	Switch, Momentary Flat	PRSSW-1F
26	Dinse Inline 50mm	PRSDI-26R
27	Dinse Connector 50mm	PRSDA-26R
28	Valve Stem	PRSVS-1

ProStar™ 9 Series TIG Torches

125 Amp Air Cooled

Electrode Range

Head Angle

Available Torch Packages

020"-3/32" (0.5 mm-2.4 mm)

60 Degrees, 180 Degrees (PRS9P)

Page B30



PRS9 - 12 - R

Torch Package Part Number

- PRS9 125 Amp Torch
- PRS9F 125 Amp Flex Torch
- PRS9FV 125 Amp Flex Torch w/Valve
- PRS9P 125 Amp 180° Pencil Torch
- PRS9V 125 Amp Torch w/Valve
- 12 12.5 feet
- 25 25 feet
- R 1 Piece Rubber Power Cable
- 2 2 Piece Power Cable

#	Description	Part No.
1	Torch Body	PRS9
2	Torch Body, Flex	PRS9F
3	Torch Body, Flex w/Valve	PRS9FV
4	Torch Body, w/Valve	PRS9V
5	Torch Body, Pencil 180°	PRS9P
6	Back Cap, Long	PRS41V24
7	Back Cap, Medium	PRS41V35
8	Back Cap, Short	PRS41V33
9	Gasket/Insulator	PRS598882
10	Collet	see page B41
11	Collet Body	see page B41
12	Nozzles	see page B41
13	Nozzles	see page B41

#	Description	Part No.
14	Nozzles	see page B41
15	Nozzles	see page B41
16	Nozzles	see page B41
17	Nozzles	see page B41
18	Handle, Ribbed (Std)	PRSH-100R
19	Handle, Smooth (Opt)	PRSH-100
20	Power Cable 12.5' 1 piece	PRS57Y01R
	Power Cable 25' 1 piece	PRS57Y03R
21	Power Cable 12.5' 2 piece	PRS57Y01-2
	Power Cable 25' 2 piece	PRS57Y03-2
22	Power Cable Adapter	PRS105Z57
23	Cable Cover 3"X10'	PRSCC-3-10
	Cable Cover 3"X22'	PRSCC-3-22

#	Description	Part No.
24	Switch Boot, Rubber	PRBSB-1
25	Switch Boot, Snap-on	PRBSB-1S
26	Switch, On-Off	PRSSW2-0
27	Switch, Momentary Bulb	PRSSW-1
	Switch, Momentary Flat	PRSSW-1F
28	Dinse Connector 50mm	PRSDA-917F
29	Dinse Connector Inline	PRSDI-917F
30	Dinse Connector for 2 piece	PRSDP-50M
31	Dinse Connector 25mm	PRSDA-917FS
32	Dinse Inline 25mm	PRSDI-917FS
33	Dinse Connector for 2 piece	PRSDP-25M
34	Valve Stem	PRSVS-2

ProStar™ 9 Series TIG Setups

STANDARD SETUP



SMALL GAS LENS SETUP



STUBBY GAS LENS SETUP



Electrode Diameter	#	Optional	.020" (0.5mm)	.040" (1.0mm)	1/16" (1.6mm)	3/32" (2.4mm)	1/8" (3.2mm)	Optional
Nozzle Size		#3 (3/16")	#4 (1/4")	#5 (5/16")	#6 (3/8")	#7 (7/16")	#8 (1/2")	#10 (5/8")
Standard Setup								
Gasket Insulator	9		PRS598882	PRS598882	PRS598882	PRS598882	PRS598882	
Collet	10		PRS13N20	PRS13N21	PRS13N22	PRS13N23	PRS13N24	
Collet Body	11		PRS13N25	PRS13N26	PRS13N27	PRS13N28	PRS13N29	
Alumina Nozzle Standard	12		PRS13N08	PRS13N09	PRS13N10	PRS13N11	PRS13N12	PRS13N13
Alumina Nozzle Long	13	PRSA796F70	PRSA796F71	PRSA796F72	PRSA796F73			
Alumina Nozzle X-Long	14	PRSA796F74	PRSA796F75	PRSA796F76	PRSA796F77			
Lava Nozzle Standard	15		PRS13N14	PRS13N15	PRS13N16	PRS13N17	PRS13N18	PRS13N19
Lava Nozzle Long	16	PRS796F70	PRS796F71	PRS796F72	PRS796F73			
Lava Nozzle X-Long	17	PRS796F74	PRS796F75	PRS796F76	PRS796F77			
Small Gas Lens Setup								
Gas Lens Collet Body	35		PRS45V41	PRS45V42	PRS45V43	PRS45V44	PRS45V45	
Alumina Gas Lens Nozzle	36		PRS53N58	PRS53N59	PRS53N60	PRS53N61	PRS53N61S	
Stubby Gas Lens Setup								
Gasket Insulator	37		PRS54N63-20	PRS54N63-20	PRS54N63-20	PRS54N63-20	PRS54N63-20	
Gas Lens Collet	38		PRS13N20L	PRS13N21L	PRS13N22L	PRS13N23L	PRS13N24L	
Gas Lens Collet Body	39		PRS45V0204S	PRS45V0204S	PRS45V116S	PRS45V64S	PRS995795S	
Alumina Gas Lens Nozzle	40				PRS57N75		PRS57N74	PRS53N88
							#12 (3/4")	PRS53N87
							#15 (15/16")	PRS53N89

ProStar™ 17 Series TIG Torches

150 Amp Air Cooled

Electrode Range
Head Angle
Available Torch Packages

.020"–3/32" (0.5 mm–2.4 mm)
60 Degrees
Page B30-B31

PRS17 - 12 - R

Torch Package
Part Number

- PRS17 150 Amp Torch
- PRS17F 150 Amp Flex Torch
- PRS17FV 150 Amp Flex Torch w/Valve
- PRS17V 150 Amp Torch w/Valve
- 12 12.5 feet
- 25 25 feet
- R Rubber Power Cable
- 2 2 Piece Power Cable



#	Description	Part No.
1	Torch Body	PRS17
2	Torch Body, Flex	PRS17F
3	Torch Body, Flex w/Valve	PRS17FV
4	Torch Body, w/Valve	PRS17V
5	Back Cap, Long	PRS57Y02
6	Back Cap, Medium	PRS300M
7	Back Cap, Short	PRS57Y04
8	Gasket/Insulator	PRS18CG
9	Collet	see page B43
10	Collet Body	see page B43
11	Nozzles	see page B43
12	Nozzles	see page B43

#	Description	Part No.
13	Nozzles	see page B43
14	Nozzles	see page B43
15	Handle, Ribbed (Std)	PRSH-100R
16	Handle, Smooth (Opt)	PRSH-100
17	Power Cable 12.5' 1 piece	PRS57Y01R
17	Power Cable 25' 1 piece	PRS57Y03R
18	Power Cable 12.5' 2 piece	PRS57Y01-2
18	Power Cable 25' 2 piece	PRS57Y03-2
19	Cable Cover 3"X10'	PRSCC-3-10
19	Cable Cover 3"X22'	PRSCC-3-22
20	Power Cable Adapter	PRS105Z57
21	Switch Boot, Rubber	PR SBS-1

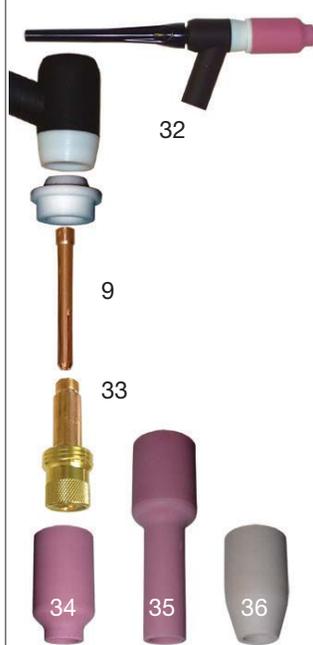
#	Description	Part No.
22	Switch Boot, Snap-on	PR SBS-1S
23	Switch, On-Off	PRSSW2-0
24	Switch, Momentary Bulb	PRSSW-1
24	Switch, Momentary Flat	PRSSW-1F
25	Dinse Connector 50mm	PRSDA-917F
26	Dinse Connector Inline	PRSDI-917F
27	Dinse Connector, for 2 piece	PRSDP-50M
28	Dinse Connector 25mm	PRSDA-917FS
29	Dinse Inline 25mm	PRSDI-917FS
30	Dinse Connector, for 2 piece	PRSDP-25M
31	Valve Stem	PRSVS-2

ProStar™ 17 Series TIG Setups

STANDARD SETUP



MEDIUM GAS LENS



LARGE GAS LENS



STUBBY COLLET BODY



1/8" and 5/32" Set-up Optional

Electrode Diameter	#	.020" (0.5mm)	.040" (1.0mm)	1/16" (1.6mm)	3/32" (2.4mm)	1/8" (3.2mm)	5/32" (4.0mm)	Optional
Nozzle Size		#4 (1/4")	#5 (5/16")	#6 (3/8")	#7 (7/16")	#8 (1/2")	#10 (5/8")	12 (3/4")
Standard Setup								
Gasket Insulator	8	PRS18CG	PRS18CG	PRS18CG	PRS18CG	PRS18CG	PRS18CG	
Collet	9	PRS10N21	PRS10N22	PRS10N23	PRS10N24	PRS10N25	PRS54N20	
Collet Body	10	PRS10N29	PRS10N30	PRS10N31	PRS10N32	PRS10N28	PRS406488	
Alumina Nozzle Standard	11	PRS10N50	PRS10N49	PRS10N48	PRS10N47	PRS10N46	PRS10N45	PRS10N44
Alumina Nozzle Long	12		PRS10N49L	PRS10N48L	PRS10N47L			
Lava Nozzle Standard	13	PRS105Z43	PRS105Z42	PRS105Z44	PRS105Z45	PRS08N78	PRS08N79	PRS08N80
Lava Nozzle Long	14	PRS12N03	PRS105Z60	PRS12N02	PRS105Z61			
Medium Gas Lens Setup								
Gasket Insulator	32	PRS54N01	PRS54N01	PRS54N01	PRS54N01	PRS54N01	PRS54N01	
Gas Lens Collet Body	33	PRS45V29	PRS45V24	PRS45V25	PRS45V26	PRS45V27	PRS45V28	
Alumina Gas Lens Nozzle	34	PRS54N18	PRS54N17	PRS54N16	PRS54N15	PRS54N14	PRS54N19	#11 (Short)
Alumina Gas Lens Nozzle Long	35		PRS54N17L	PRS54N16L	PRS54N15L	PRS54N14L		
Lava Gas Lens Nozzle	36	PRS54N35	PRS54N34	PRS54N33	PRS54N32	PRS54N31	PRS54N36	#11 (11/16)
Large Gas Lens Setup								
Gasket Insulator	37	PRS54N63	PRS54N63	PRS54N63	PRS54N63	PRS54N63	PRS54N63	
Gas Lens Collet Body	38	PRS45V0204	PRS45V0204	PRS45V116	PRS45V64	PRS995795	PRS45V63	
Alumina Gas Lens Nozzle	39			PRS57N75		PRS57N74	PRS53N88	PRS53N87
Alumina Gas Lens Nozzle Long				PRS57N75L		PRS57N74L		
Alumina Gas Lens Nozzle X-Long				PRS57N75XL		PRS57N74XL		
Stubby Collet Body Setup								
Gasket Insulator	40	PRS18CG20	PRS18CG20	PRS18CG20	PRS18CG20	PRS18CG20		
Stubby Collet	41	PRS10N21S	PRS10N22S	PRS10N23S	PRS10N24S	PRS10N25S		
Stubby Collet Body	42	PRS17CB20	PRS17CB20	PRS17CB20	PRS17CB20	PRS17CB20		
Alumina Nozzle Standard	43	PRS13N08	PRS13N09	PRS13N10	PRS13N11	PRS13N12	PRS13N13	

ProStar™ 18 Series TIG Torches

350 Amp Water Cooled 500 Amp Water Cooled (PRS18P)

Electrode Range .020"–5/32" (0.5 mm–4.0 mm)
 Head Angle 60 Degrees, 180 Degrees (PRS18P)
 Available Torch Packages Page B32

PRS18 - 12 - R

Torch Package
Part Number

PRS18	350 Amp Torch
PRS18F	350 Amp Flex Torch
PRS18V	350 Amp Torch w/Valve
PRS18P	500 Amp 180° Pencil Torch
12	12.5 feet
25	25 feet
R	Rubber Power Cable
Blank	Vinyl Power Cable

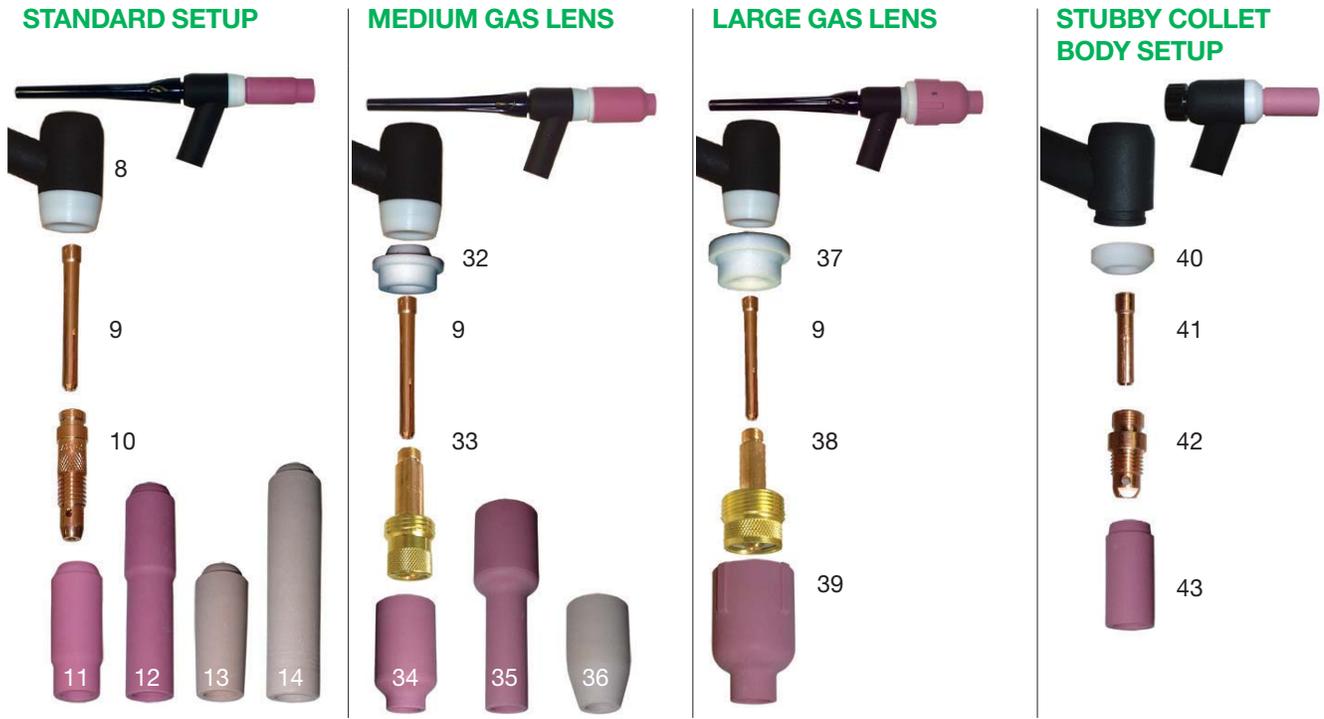


#	Description	Part No.
1	Torch Body	PRS18
2	Torch Body, Flex	PRS18F
3	Torch Body, Pencil 180°	PRS18P
4	Torch Body, w/Valve	PRS18V
5	Back Cap, Long	PRS57Y02
6	Back Cap, Medium	PRS300M
7	Back Cap, Short	PRS57Y04
8	Gasket/Insulator	PRS18CG
9	Collet	see page B45
10	Collet Body	see page B45
11	Nozzles	see page B45
12	Nozzles	see page B45
13	Nozzles	see page B45

#	Description	Part No.
14	Nozzles	see page B45
15	Handle, Smooth	PRSH-200
16	Barrel Handle (18P)	PRS18PB
17	Power Cable 12.5' Vinyl	PRS40V64
18	Power Cable 25' Vinyl	PRS41V29
19	Water Hose 12.5' Vinyl	PRS40V74
20	Water Hose 25' Vinyl	PRS41V32
21	Gas Hose 12.5' Vinyl	PRS40V75
22	Gas Hose 25' Vinyl	PRS41V30
23	Power Cable 12.5' Rubber	PRS40V64R
24	Power Cable 25' Rubber	PRS41V29R
25	Water Hose 12.5' Rubber	PRS40V74R
26	Water Hose 25' Rubber	PRS41V32R

#	Description	Part No.
27	Gas Hose 12.5' Rubber	PRS40V75R
28	Gas Hose 25' Rubber	PRS41V30R
29	Hose Clamp	PRS53N04
30	Power Cable Adapter	PRS45V11
31	Cable Cover 3"X10'	PRSCC-3-10
32	Cable Cover 3"X22'	PRSCC-3-22
33	Switch Boot, Rubber	PRSB-1
34	Switch Boot, Snap-on	PRSB-1S
35	Switch, On-Off	PRSSW-2-0
36	Switch, Momentary Bulb	PRSSW-1
37	Switch, Momentary Flat	PRSSW-1F
38	Dinse Connector 50mm	PRSDA-1820L
39	Valve Stem	PRSVS-2

ProStar™ 18 Series TIG Setups



Electrode Diameter	#	.020" (0.5mm)	.040" (1.0mm)	1/16" (1.6mm)	3/32" (2.4mm)	1/8" (3.2mm)	5/32" (4.0mm)	Optional
Nozzle Size		#4 (1/4")	#5 (5/16")	#6 (3/8")	#7 (7/16")	#8 (1/2")	#10 (5/8")	12 (3/4")
Standard Setup								
Gasket Insulator	8	PRS18CG	PRS18CG	PRS18CG	PRS18CG	PRS18CG	PRS18CG	
Collet	9	PRS10N21	PRS10N22	PRS10N23	PRS10N24	PRS10N25	PRS54N20	
Collet Body	10	PRS10N29	PRS10N30	PRS10N31	PRS10N32	PRS10N28	PRS406488	
Alumina Nozzle Standard	11	PRS10N50	PRS10N49	PRS10N48	PRS10N47	PRS10N46	PRS10N45	PRS10N44
Alumina Nozzle Long	12		PRS10N49L	PRS10N48L	PRS10N47L			
Lava Nozzle Standard	13	PRS105Z43	PRS105Z42	PRS105Z44	PRS105Z45	PRS08N78	PRS08N79	PRS08N80
Lava Nozzle Long	14	PRS12N03	PRS105Z60	PRS12N02	PRS105Z61			
Medium Gas Lens Setup								
Gasket Insulator	32	PRS54N01	PRS54N01	PRS54N01	PRS54N01	PRS54N01	PRS54N01	
Gas Lens Collet Body	33	PRS45V29	PRS45V24	PRS45V25	PRS45V26	PRS45V27	PRS45V28	
Alumina Gas Lens Nozzle	34	PRS54N18	PRS54N17	PRS54N16	PRS54N15	PRS54N14	PRS54N19	#11 (Short)
Alumina Gas Lens Nozzle Long	35		PRS54N17L	PRS54N16L	PRS54N15L	PRS54N14L		
Lava Gas Lens Nozzle	36	PRS54N35	PRS54N34	PRS54N33	PRS54N32	PRS54N31	PRS54N36	#11 (11/16)
Large Gas Lens Setup								
Gasket Insulator	37	PRS54N63	PRS54N63	PRS54N63	PRS54N63	PRS54N63	PRS54N63	
Gas Lens Collet Body	38	PRS45V0204	PRS45V0204	PRS45V116	PRS45V64	PRS995795	PRS45V63	
Alumina Gas Lens Nozzle	39			PRS57N75		PRS57N74	PRS53N88	PRS53N87
Alumina Gas Lens Nozzle Long				PRS57N75L		PRS57N74L		
Alumina Gas Lens Nozzle X-Long				PRS57N75XL		PRS57N74XL		
Stubby Collet Body Setup								
Gasket Insulator	40	PRS18CG20	PRS18CG20	PRS18CG20	PRS18CG20	PRS18CG20		
Stubby Collet	41	PRS10N21S	PRS10N22S	PRS10N23S	PRS10N24S	PRS10N25S		
Stubby Collet Body	42	PRS17CB20	PRS17CB20	PRS17CB20	PRS17CB20	PRS17CB20		
Alumina Nozzle Standard	43	PRS13N08	PRS13N09	PRS13N10	PRS13N11	PRS13N12	PRS13N13	

ARC ACCESSORIES

ProStar™ 20 & 25 Series TIG Torches

250 Amp Water Cooled (PRS25)

Electrode Range .020"–1/8" (0.5 mm–3.2 mm)
 Head Angl 60 Degrees, 180 Degrees PRS20P
 Available Torch Packages Page B32



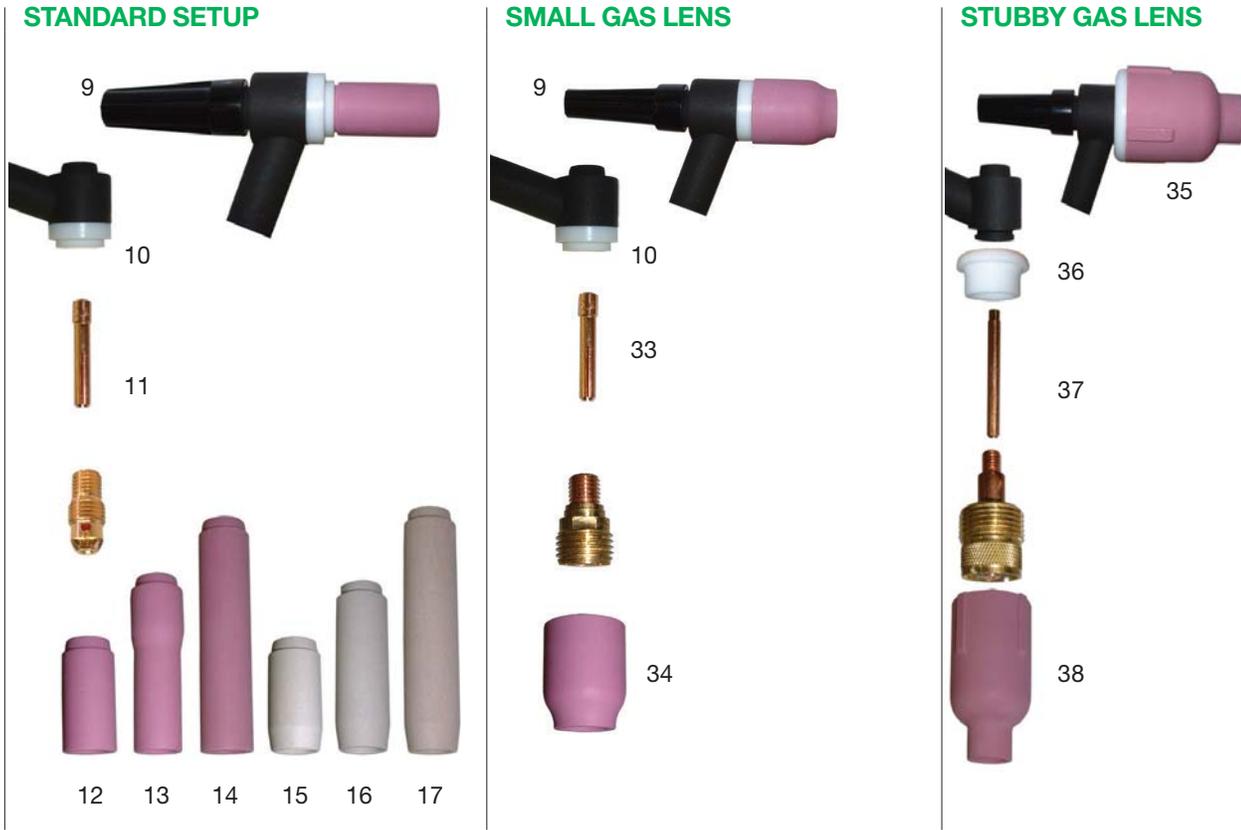
PRS20 - 12 - R	Torch Package Part Number
PRS20	250 Amp Torch
PRS20F	250 Amp Flex Torch
PRS20M	250 Amp Mechanical Fittings
PRS20P	250 Amp 180° Pencil Torch
PRS25	200 Amp Pencil Flex
12	12.5 feet
25	25 feet
R	Rubber Power Cable & Hoses
Blank	Vinyl Power Cable & Hoses

#	Description	Part No.
1	Torch Body	PRS20
2	Torch Body	PRS20M
3	Torch Body, Flex 180°	PRS25
4	Torch Body, 180°	PRS20P
5	Torch Body, Flex	PRS20F
6	Back Cap, Long	PRS41V24
7	Back Cap, Medium	PRS41V35
8	Back Cap, Short	PRS41V33
9	Gasket/Insulator	PRS598882
10	Collet	see page B47
11	Collet Body	see page B47
12	Nozzles	see page B47
13	Nozzles	see page B47
14	Nozzles	see page B47

#	Description	Part No.
15	Nozzles	see page B47
16	Nozzles	see page B47
17	Handle (20F, 20M, 20P, 25)	PRSH-100
18	Handle (20)	PRS53N06
19	Power Cable 12.5' Vinyl	PRS45V03
19	Power Cable 25' Vinyl	PRS45V04
20	Water Hose 12.5' Vinyl	PRS45V07
20	Water Hose 12.5' Vinyl (20' 20M)	PRS45V07M
21	Water Hose 25' Vinyl	PRS45V08
21	Water Hose 25' Vinyl (20', 20M)	PRS45V08M
22	Gas Hose 12.5' Vinyl	PRS45V09
22	Gas Hose 25' Vinyl	PRS45V10
23	Power Cable 12.5' Rubber	PRS45V03R
23	Power Cable 25' Rubber	PRS45V04R
23	Water Hose 12.5' Rubber	PRS45V07R

#	Description	Part No.
24	Water Hose 12.5' Rubber (20F, 20M)	PRS45V07RM
23	Water Hose 25' Rubber	PRS45V08R
23	Water Hose 25' Rubber (20F, 20M)	PRS45V08RM
24	Gas Hose 12.5' Rubber	PRS45V09R
24	Gas Hose 25' Rubber	PRS45V10R
25	Hose Clamp	PRS53N04
26	Power Cable Adapter	PRS45V11
27	Cable Cover 3"X10'	PRSCC-3-10
27	Cable Cover 3"X22'	PRSCC-3-22
28	Switch Boot, Rubber	PRSSB-1
29	Switch Boot, Snap-on	PRSSB-1S
30	Switch, On-Off	PRSSW2-0
31	Switch, Momentary Bulb	PRSSW-1
31	Switch, Momentary Flat	PRSSW-1F
32	Dinse Connector 50mm	PRSDA-1820L

ProStar™ 20 & 25 Series TIG Setups



Electrode Diameter	#	Optional	.020" (0.5mm)	.040" (1.0mm)	1/16" (1.6mm)	3/32" (2.4mm)	1/8" (3.2mm)	Optional
Nozzle Size		#3 (3/16")	#4 (1/4")	#5 (5/16")	#6 (3/8")	#7 (7/16")	#8 (1/2")	#10 (5/8")
Standard Setup								
Gasket Insulator	9		PRS598882	PRS598882	PRS598882	PRS598882	PRS598882	
Collet	10		PRS13N20	PRS13N21	PRS13N22	PRS13N23	PRS13N24	
Collet Body	11		PRS13N25	PRS13N26	PRS13N27	PRS13N28	PRS13N29	
Alumina Nozzle Standard	12		PRS13N08	PRS13N09	PRS13N10	PRS13N11	PRS13N12	PRS13N13
Alumina Nozzle Long	13	PRSA796F70	PRSA796F71	PRSA796F72	PRSA796F73			
Alumina Nozzle X-Long	14	PRSA796F74	PRSA796F75	PRSA796F76	PRSA796F77			
Lava Nozzle Standard	15		PRS13N14	PRS13N15	PRS13N16	PRS13N17	PRS13N18	PRS13N19
Lava Nozzle Long	16	PRS796F70	PRS796F71	PRS796F72	PRS796F73			
Lava Nozzle X-Long	17	PRS796F74	PRS796F75	PRS796F76	PRS796F77			
Small Gas Lens Setup								
Gas Lens Collet Body	33		PRS45V41	PRS45V42	PRS45V43	PRS45V44	PRS45V45	
Alumina Gas Lens Nozzle	34		PRS53N58	PRS53N59	PRS53N60	PRS53N61	PRS53N61S	
Stubby Gas Lens Setup								
Gasket Insulator	35		PRS54N63-20	PRS54N63-20	PRS54N63-20	PRS54N63-20	PRS54N63-20	
Gas Lens Collet	36		PRS13N20L	PRS13N21L	PRS13N22L	PRS13N23L	PRS13N24L	
Gas Lens Collet Body	37		PRS45V0204S	PRS45V0204S	PRS45V116S	PRS45V64S	PRS995795S	
Alumina Gas Lens Nozzle	38				PRS57N75		PRS57N74	PRS53N88
							#12 (3/4")	PRS53N87
							#15 (15/16")	PRS53N89

ARC ACCESSORIES

ProStar™ 22 Series TIG Torches

250 Amp Water Cooled Machine Torch

Electrode Range 1/16"–1/8" (1.6 mm–3.2 mm)
 Head Angle 180 Degrees
 Available Torch Packages Page B32

PRS22A - 12

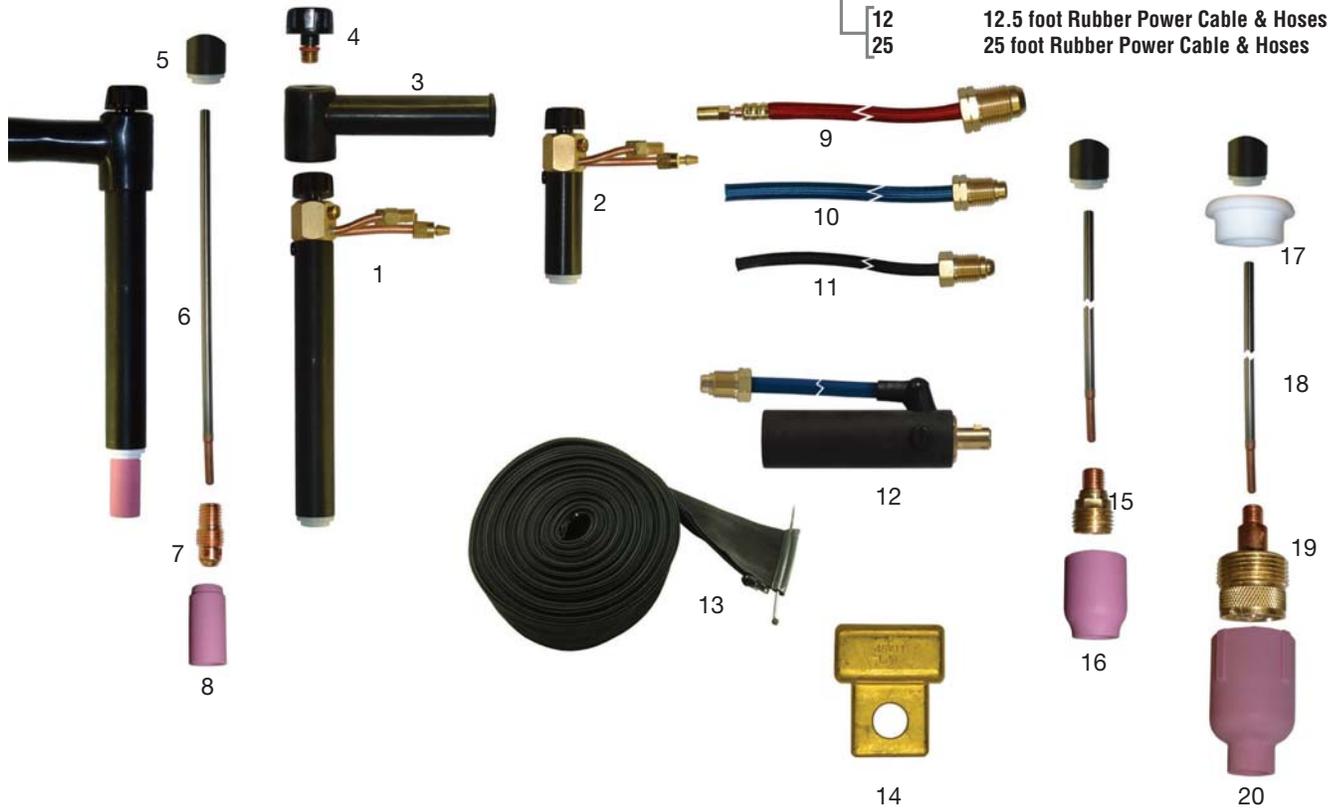
Torch Package
Part Number

PRS22A
PRS22B

250 Amp 7" Torch
250 Amp 3" Torch

12
25

12.5 foot Rubber Power Cable & Hoses
25 foot Rubber Power Cable & Hoses



#	Description	Part No.
1	Torch Body 7", w/Ins. Boot	PRS22A
2	Torch Body 3", w/Ins. Boot	PRS22B
3	Insulating Boot	PRS22-9
4	Collet Knob	PRS22-7
5	Gasket/Insulator	PRS22-10
6	Collet	see table at right
7	Collet Body	see table at right
8	Nozzles	see table at right
9	Power Cable 12.5' Rubber	PRS45V03R
	Power Cable 25' Rubber	PRS45V04R
10	Water Hose 12.5' Rubber	PRS45V07RM
	Water Hose 25' Rubber	PRS45V08RM
11	Gas Hose 12.5' Rubber	PRS45V09R
	Gas Hose 25' Rubber	PRS45V10R
12	Dinse Connector 50mm	PRSDA-1820L
	Cable Cover 3"X10'	PRSCC-3-10
	Cable Cover 3"X22'	PRSCC-3-22
14	Power Cable Adapter	PRS45V11
15	Gas Lens Collet Body	see table at right
16	Nozzles	see table at right
17	Gasket/Insulator	PRS54N63-22
18	Collet	see table at right
19	Gas Lens Collet Body	see table at right
20	Nozzles	see table at right

Electrode Diameter	#	Optional	1/16" (1.6mm)	3/32" (2.4mm)	1/8" (3.2mm)
Nozzle Size		#5 (5/16")	#6 (3/8")	#7 (7/16")	#8 (1/2")
Standard Setup					
Collet 22A	6		PRS22N22A	PRS22N23A	PRS22N24A
Collet 22B	6		PRS22N22B	PRS22N23B	PRS22N24B
Collet Body	7		PRS13N27	PRS13N28	PRS13N29
Alumina Nozzle Standard	8	PRS13N09	PRS13N10	PRS13N11	PRS13N12
For other nozzle options see page B27					
Small Gas Lens Setup					
Gas Lens Collet Body	15	PRS45V42	PRS45V43	PRS45V44	PRS45V45
Alumina Gas Lens Nozzle	16	PRS53N59	PRS53N60	PRS53N61	PRS53N61S
Large Gas Lens Setup					
Gasket/Insulator	17		PRS54N63-22	PRS54N63-22	PRS54N63-22
Gas Lens Collet 22A	18		PRS22N22AL	PRS22N23AL	PRS22N24AL
Gas Lens Collet 22B	18		PRS22N22BL	PRS22N23BL	PRS22N24BL
Gas Lens Collet Body	19		PRS45V116S	PRS45V64S	PRS995795S
Alumina Gas Lens Nozzle	20		PRS57N75		PRS57N74

For other nozzle options, see page B27

ProStar™ 24 Series TIG Torches

80 Amp Air Cooled 180 Amp Water Cooled

Electrode Range .020"–3/32" (0.5 mm–2.4 mm)
 Head Angle 60–90 Degrees
 Available Torch Packages Page B30-B31

PRS24 - 12 - R

Torch Package
Part Number

PRS24
PRS24N
PRS24V
PRS24W
PRS24WN

80 Amp Air Cooled Torch 60°
 80 Amp Air Cooled Torch 90°
 80 Amp Air Cooled Torch w/Valve
 180 Amp Water Cooled Torch 60°
 180 Amp Water Cooled Torch 90°

12
25

12.5 feet
25 feet

R
Blank

Rubber Power Cable
Vinyl Power Cable



#	Description	Part No.
1	Torch Body, 60° w/Valve	PRS24V
2	Torch Body, 60°	PRS24
3	Torch Body, 90°	PRS24N
4	Torch Body, 60°	PRS24W
4	Torch Body, 90°	PRS24WN
5	Power Cable 12.5' Rubber	PRS56Y38R
5	Power Cable 25' Rubber	PRS56Y97R
6	Power Cable 12.5' Rubber	PRS45V03R
6	Power Cable 25' Rubber	PRS45V04R
7	Water Hose 12.5' Rubber	PRS45V07R
7	Water Hose 25' Rubber	PRS45V08R
8	Gas Hose 12.5' Rubber	PRS45V09R
8	Gas Hose 25' Rubber	PRS45V10R

#	Description	Part No.
9	Hose Clamp	PRS53N04
10	Power Cable 12.5' Vinyl	PRS45V03
10	Power Cable 25' Vinyl	PRS45V04
11	Water Hose 12.5' Vinyl	PRS45V07
11	Water Hose 25' Vinyl	PRS45V08
12	Gas Hose 12.5' Vinyl	PRS45V09
12	Gas Hose 25' Vinyl	PRS45V10
13	Gasket/Insulator	PRS53N22
14	Collet	see table below
15	Collet Body	see table below
16	Nozzles	see table below
17	Handle, Ribbed (Std 24)	PRSH-100R
18	Handle, Smooth (Std 24W)	PRSH-100

#	Description	Part No.
19	Power Cable Adapter (24)	PRS53N43
20	Power Cable Adapter (24W)	PRS45V11
21	Cable Cover 3"X10'	PRSCC-3-10
21	Cable Cover 3"X22'	PRSCC-3-22
22	Gas Lens Gasket/Insulator	PRS53N66
23	Collet	see table below
24	Gas Lens Collet Body	see table below
25	Nozzles	see table below
26	Dinse Connector, Inline	PRSDI-24F
27	Dinse Connector 50mm	PRSDA-24F
28	Dinse Connector 50mm	PRSDA-1820L

Electrode Diameter	Nozzle Size	Collet	Collet Body	Alumina Nozzle		Lava Nozzle		Gas Lens Collet	Gas Lens	Alumina Nozzle
				Standard	Long	Standard	Long			
	#	14	15	16	16a	16b	16c	23	24	25
	#3 (3/16")			PRS53N23A		PRS53N23				
.020" (0.5mm)	#4 (1/4")	PRS53N15	PRS53N17	PRS53N24A		PRS53N24	PRS53N28	PRS53N62	PRS45V41	PRS53N58
.040" (1.0mm)	#5 (5/16")	PRS53N16	PRS53N18	PRS53N25A		PRS53N25		PRS53N63	PRS45V42	PRS53N59
1/16" (1.6mm)	#6 (3/8")	PRS53N14	PRS53N19	PRS53N27A	PRS53N26A	PRS53N27	PRS53N26	PRS53N64	PRS45V43	PRS53N60
3/32" (2.4mm)	#7 (7/16")	PRS24C332	PRS24CB332					PRS24GLC332	PRS45V44	PRS53N61
	#8 (1/2")									PRS53N61S

ProStar™ 26 Series TIG Torches

200 Amp Air Cooled

Electrode Range .020"–5/32" (0.5 mm–4.0 mm)
 Head Angle 60 Degrees
 Available Torch Packages Page B31

PRS26 - 12 - R

Torch Package Part Number

PRS26 200 Amp Torch
 PRS26F 200 Amp Flex Torch
 PRS26FV 200 Amp Flex Torch w/Valve
 PRS26V 200 Amp Torch w/Valve

12 12.5 feet
 25 25 feet

R 1 Piece Rubber Power Cable
 2 2 Piece Power Cable



#	Description	Part No.
1	Torch Body	PRS26
2	Torch Body, Flex	PRS26F
3	Torch Body, Flex w/Valve	PRS26FV
4	Torch Body, w/Valve	PRS26V
5	Back Cap, Long	PRS57Y02
6	Back Cap, Medium	PRS300M
7	Back Cap, Short	PRS57Y04
8	Gasket/Insulator	PRS18CG
9	Collet	see page B51
10	Collet Body	see page B51

#	Description	Part No.
11	Nozzles	see page B51
12	Nozzles	see page B51
13	Nozzles	see page B51
14	Nozzles	see page B51
15	Handle, Ribbed (Std)	PRSH-200R
16	Handle, Smooth (Opt)	PRSH-200
17	Power Cable 12.5' 1 piece	PRS46V28-R
	Power Cable 25' 1 piece	PRS46V30-R
18	Power Cable 12.5' 2 piece	PRS46V28-2
	Power Cable 25' 2 piece	PRS46V30-2

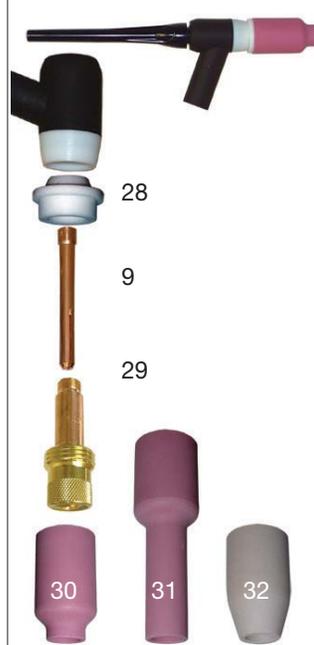
#	Description	Part No.
19	Cable Cover 3"X10'	PRSCC-3-10
	Cable Cover 3"X22'	PRSCC-3-22
20	Power Cable Adapter	PRS45V62
21	Switch Boot, Rubber	PRSDL-1
22	Switch Boot, Snap-on	PRSDL-1S
23	Switch, On-Off	PRSSW2-0
24	Switch, Momentary Bulb	PRSSW-1
	Switch, Momentary Flat	PRSSW-1F
25	Dinse Inline 50mm	PRSDI-26R
26	Dinse Connector 50mm	PRSDA-26R
27	Valve Stem	PRSVS-1

ProStar™ 26 Series TIG Setups

STANDARD SETUP



MEDIUM GAS LENS



LARGE GAS LENS



STUBBY COLLET BODY



Electrode Diameter	#	.020" (0.5mm)	.040" (1.0mm)	1/16" (1.6mm)	3/32" (2.4mm)	1/8" (3.2mm)	5/32" (4.0mm)	Optional
Nozzle Size		#4 (1/4")	#5 (5/16")	#6 (3/8")	#7 (7/16")	#8 (1/2")	#10 (5/8")	12 (3/4")
Standard Setup								
Gasket Insulator	8	PRS18CG	PRS18CG	PRS18CG	PRS18CG	PRS18CG	PRS18CG	
Collet	9	PRS10N21	PRS10N22	PRS10N23	PRS10N24	PRS10N25	PRS54N20	
Collet Body	10	PRS10N29	PRS10N30	PRS10N31	PRS10N32	PRS10N28	PRS406488	
Alumina Nozzle Standard	11	PRS10N50	PRS10N49	PRS10N48	PRS10N47	PRS10N46	PRS10N45	PRS10N44
Alumina Nozzle Long	12		PRS10N49L	PRS10N48L	PRS10N47L			
Lava Nozzle Standard	13	PRS105Z43	PRS105Z42	PRS105Z44	PRS105Z45	PRS08N78	PRS08N79	PRS08N80
Lava Nozzle Long	14	PRS12N03	PRS105Z60	PRS12N02	PRS105Z61			
Medium Gas Lens Setup								
Gasket Insulator	28	PRS54N01	PRS54N01	PRS54N01	PRS54N01	PRS54N01	PRS54N01	
Gas Lens Collet Body	29	PRS45V29	PRS45V24	PRS45V25	PRS45V26	PRS45V27	PRS45V28	
Alumina Gas Lens Nozzle	30	PRS54N18	PRS54N17	PRS54N16	PRS54N15	PRS54N14	PRS54N19	#11 (Short)
Alumina Gas Lens Nozzle Long	31		PRS54N17L	PRS54N16L	PRS54N15L	PRS54N14L		
Lava Gas Lens Nozzle	32	PRS54N35	PRS54N34	PRS54N33	PRS54N32	PRS54N31	PRS54N36	#11 (11/16)
Large Gas Lens Setup								
Gasket Insulator	33	PRS54N63	PRS54N63	PRS54N63	PRS54N63	PRS54N63	PRS54N63	
Gas Lens Collet Body	34	PRS45V0204	PRS45V0204	PRS45V116	PRS45V64	PRS995795	PRS45V63	
Alumina Gas Lens Nozzle	35			PRS57N75		PRS57N74	PRS53N88	PRS53N87
Alumina Gas Lens Nozzle Long				PRS57N75L		PRS57N74L		
Alumina Gas Lens Nozzle X-Long				PRS57N75XL		PRS57N74XL		
Stubby Collet Body Setup								
Gasket Insulator	36	PRS18CG20	PRS18CG20	PRS18CG20	PRS18CG20	PRS18CG20		
Stubby Collet	37	PRS10N21S	PRS10N22S	PRS10N23S	PRS10N24S	PRS10N25S		
Stubby Collet Body	38	PRS17CB20	PRS17CB20	PRS17CB20	PRS17CB20	PRS17CB20		
Alumina Nozzle Standard	39	PRS13N08	PRS13N09	PRS13N10	PRS13N11	PRS13N12	PRS13N13	

ProStar™ 27 Series TIG Torches

500 Amp Water Cooled Machine Torch

Electrode Range .040"–1/4" (1.0 mm–6.4 mm)
 Head Angle 180 Degrees
 Available Torch Packages Page B32

27A - 12

Torch Package Part Number

PRS27A
PRS27B

500 Amp 9" Torch
500 Amp 20" Torch

12.5 foot Rubber Power Cable & Hoses
25 foot Rubber Power Cable & Hoses



#	Description	Part No.
1	Torch Body, w/Ins. Boot	PRS27A
2	Torch Body, w/Ins. Boot	PRS27B
3	Shaft Assembly (27A)	PRS27-13A
3	Shaft Assembly (27B)	PRS27-13B
4	O-ring	PRS27-13-2
5	O-ring	PRS27-13-3
6	Insulating Boot	PRS27-12
7	Collet	see table below
8	Gas Lens Collet Body	see table below
9	O-ring for 49V Gas Lens	PRS181W89
10	Gasket	PRS57N56
11	Nozzles	see table below

#	Description	Part No.
12	Gas Hose 12.5' Rubber	PRS40V82R
12	Gas Hose 25' Rubber	PRS40V82RL
13	Gas Hose 3' Rubber	PRS40V82R-3
14	Water Hose 12.5' Rubber	PRS40V83R
14	Water Hose 25' Rubber	PRS40V83RL
15	Water Hose 3' Rubber	PRS40V83R-3
16	Power Cable 12.5' Rubber	PRS40V84R
16	Power Cable 25' Rubber	PRS40V84RL
16	Power Cable 3' Rubber	PRS40V84R-3
17	Cable Cover 4"X10'	PRSCC-4-10
17	Cable Cover 4"X22'	PRSCC-4-22
17	Power Cable Adapter	PRS45V11

Electrode Dia	Nozzle Size	Collet	Gas Lens	Alumina Nozzle	Alumina Long Nozzle	Alumina X-Long Nozzle
	#	7	8		11	
.040" (1.0mm)	#5 (5/16")	PRS57N45	PRS49V22			
1/16" (1.6mm)	#6 (3/8")	PRS57N46	PRS49V23	PRS57N75	PRS57N75L	PRS57N75XL
3/32" (2.4mm)	#7 (7/16")	PRS57N47	PRS49V24			
1/8" (3.2mm)	#8 (1/2")	PRS57N48	PRS49V25	PRS57N74	PRS57N74L	PRS57N74XL
5/32" (4.0mm)	#10 (5/8")	PRS57N49	PRS49V26	PRS53N88	PRS53N88L	PRS53N88XL
3/16" (4.8mm)	#12 (3/4")	PRS57N50	PRS49V27	PRS53N87	PRS53N87L	PRS53N87XL
1/4" (6.4mm)	#15 (15/16")	PRS57N51	PRS49V28	PRS53N89 (Short)		

ProStar™ 12 Series TIG Torch

500 Amp Water Cooled

Electrode Range 1/16"–1/4" (1.6 mm–6.4 mm)
Head Angle 60 Degrees
Available Torch Packages Page B32

PRS12 - 12

Torch Package
Part Number

PRS12

500 Amp Torch

12
25

12.5 foot Rubber Power Cable & Hoses
25 foot Rubber Power Cable & Hoses



#	Description	Part No.
1	Torch Body	PRS12
2	Back Cap, Long	PRS56Y44
3	Back Cap, Short	PRS56Y45
4	Gas Hose 12.5' Rubber	PRS40V82R
	Gas Hose 25' Rubber	PRS40V82RL
5	Water Hose 12.5' Rubber	PRS40V83R
	Water Hose 25' Rubber	PRS40V83RL

#	Description	Part No.
6	Power Cable 12.5' Rubber	PRS40V84R
	Power Cable 25' Rubber	PRS40V84RL
7	Handle	PRS85WP13
8	Gasket/Insulator	PRS12NG
9	Collet	see table below
10	Collet Body	see table below
11	Nozzles	see table below

#	Description	Part No.
12	Gasket/Insulator	PRS12GLG
13	Gas Lens Collet Body	see table below
14	Nozzles	see table below
15	Cable Cover 4"X10'	PRSCC-4-10
	Cable Cover 4"X22'	PRSCC-4-22
16	Power Cable Adapter	PRS45V11

Electrode Dia	Nozzle Size	Collet	Collet Body	Standard Nozzle	Gas Lens	Gas Lens Nozzle	Gas Lens Nozzle Long	Gas Lens Nozzle X-Long
	#	9	10	11	13	14		
1/16" (1.6mm)	#4 (1/4")	PRS85Z14	PRS11WP65	PRS14N57	PRS11GL16			
3/32" (2.4mm)	#5 (5/16")	PRS85Z15	PRS11WP65	PRS14N58	PRS11GL32			
1/8" (3.2mm)	#6 (3/8")	PRS85Z16	PRS11WP65	PRS14N59	PRS11GL18	PRS57N75	PRS57N75L	PRS57N75XL
5/32" (4.0mm)	#7 (7/16")	PRS85Z17	PRS11WP65	PRS14N60	PRS11GL53			
3/16" (4.8mm)	#8 (1/2")	PRS85Z18	PRS11WP65	PRS14N61	PRS11GL36	PRS57N74	PRS57N74L	PRS57N74XL
1/4" (6.4mm)	#10 (5/8")	PRS85Z19	PRS11WP65	PRS14N61-10		PRS53N88	PRS53N88L	PRS53N88XL
Optional	#12 (3/4")					PRS53N87	PRS53N87L	PRS53N87XL

ProStar™ TIG Consumables

ProStar Alumina TIG Cups (Nozzles) B55

ProStar Lava TIG Cups (Nozzles) B56

ProStar Collets & Collet Bodies B57

ProStar Power Blocks B58

ProStar Extension Kits B58

ProStar Gas Lenses B59

ProStar Accessory Kits B59

ProStar Torch Handles B60

ProStar Power Cables and Hoses B61

ProStar Hook Up Kits and Connectors B62



ProStar™ Alumina TIG Cups (Nozzles)

10N SERIES

Part No.	Description	Orifice	Length
PRS10N44	#12 Alumina	3/4"	1 7/8"
PRS10N45	#10 Alumina	5/8"	1 7/8"
PRS10N46	#8 Alumina	1/2"	1 7/8"
PRS10N47	#7 Alumina	7/16"	1 7/8"
PRS10N47L	#7 Long	7/16"	3"
PRS10N48	#6 Alumina	3/8"	1 7/8"
PRS10N48L	#6 Long	3/8"	3"
PRS10N49	#5 Alumina	5/16"	1 7/8"
PRS10N49L	#5 Long	5/16"	3"
PRS10N50	#4 Alumina	1/4"	1 7/8"

13N SERIES

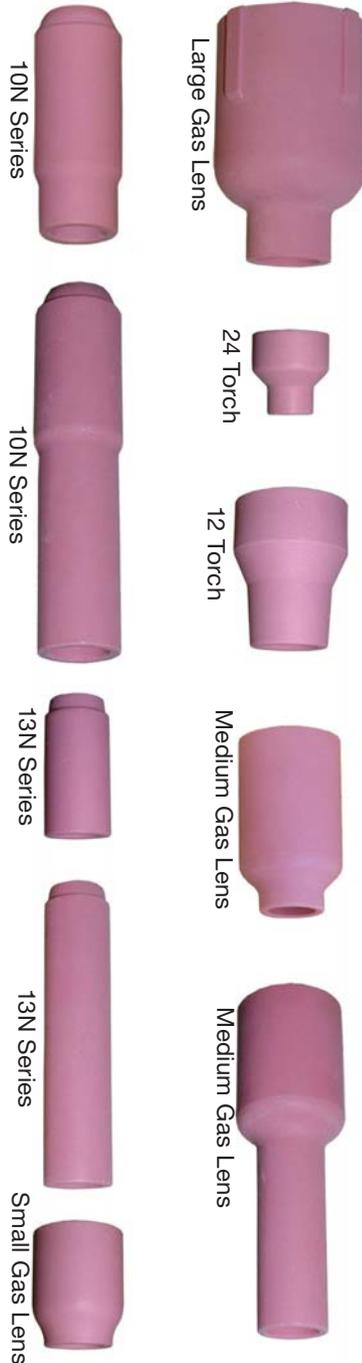
Part No.	Description	Orifice	Length
PRSA796F70	#3 Long	3/16"	1 15/16"
PRSA796F74	#3 X-Long	3/16"	2 1/2"
PRS13N08	#4 Alumina	1/4"	1 3/16"
PRSA796F71	#4 Long	1/4"	1 15/16"
PRSA796F75	#4 X-Long	1/4"	2 1/2"
PRS13N09	#5 Alumina	5/16"	1 3/16"
PRSA796F72	#5 Long	5/16"	1 15/16"
PRSA796F76	#5 X-Long	5/16"	2 1/2"
PRS13N10	#6 Alumina	3/8"	1 3/16"
PRSA796F73	#6 Long	3/8"	1 15/16"
PRSA796F77	#6 X-Long	3/8"	2 1/2"
PRS13N11	#7 Alumina	7/16"	1 3/16"
PRS13N12	#8 Alumina	1/2"	1 3/16"
PRS13N13	#10 Alumina	5/8"	1 3/16"

24 TORCH ALUMINA NOZZLES

Part No.	Description	Orifice	Length
PRS53N23A	.165 Alumina	.165"	5/8"
PRS53N24A	#4 Alumina	1/4"	5/8"
PRS53N25A	#5 Alumina	5/16"	5/8"
PRS53N26A	#6 Alumina	5/16"	1 1/8"
PRS53N27A	#6 Alumina	3/8"	5/8"

12 TORCH

Part No.	Description	Orifice	Length
PRS14N57	#4 Alumina	1/4"	1 1/4"
PRS14N58	#5 Alumina	5/16"	1 1/4"
PRS14N59	#6 Alumina	3/8"	1 1/4"
PRS14N60	#7 Alumina	7/16"	1 1/4"
PRS14N61	#8 Alumina	1/2"	1 1/4"
PRS14N61-10	#10 Alumina	5/8"	1 1/4"
PRS14N61-12	#12 Alumina	3/4"	1 1/4"



SMALL GAS LENS

Part No.	Description	Orifice	Length
PRS53N58	#4 Alumina	1/4"	1"
PRS53N59	#5 Alumina	5/16"	1"
PRS53N60	#6 Alumina	3/8"	1"
PRS53N61	#7 Alumina	7/16"	1"
PRS53N61S	#8 Alumina	1/2"	1"

MEDIUM GAS LENS

Part No.	Description	Orifice	Length
PRS54N14	#8 Alumina	1/2"	1 5/8"
PRS54N14L	#8 Long	1/2"	3"
PRS54N15	#7 Alumina	7/16"	1 5/8"
PRS54N15L	#7 Long	7/16"	3"
PRS54N16	#6 Alumina	3/8"	1 5/8"
PRS54N16L	#6 Long	3/8"	3"
PRS54N17	#5 Alumina	5/16"	1 5/8"
PRS54N17L	#5 Long	5/16"	3"
PRS54N18	#4 Alumina	1/4"	1 5/8"
PRS54N19	#11 Alumina	.700"	1 1/8"

LARGE GAS LENS

Part No.	Description	Orifice	Length
PRS53N87	#12 Alumina	3/4"	1 7/8"
PRS53N87L	#12 Long	3/4"	2 3/4"
PRS53N87XL	#12 X-Long	3/4"	3 1/4"
PRS53N88	#10 Alumina	5/8"	1 7/8"
PRS53N88L	#10 Long	5/8"	2 3/4"
PRS53N88XL	#10 X-Long	5/8"	3 1/4"
PRS53N89	#15 Short	15/16"	1 3/8"
PRS57N74	#8 Alumina	1/2"	1 7/8"
PRS57N74L	#8 Long	1/2"	2 3/4"
PRS57N74XL	#8 X-Long	1/2"	3 1/4"
PRS57N75	#6 Alumina	3/8"	1 7/8"
PRS57N75L	#6 Long	3/8"	2 3/4"
PRS57N75XL	#6 X-Long	3/8"	3 1/4"

ProStar™ Lava TIG Cups (Nozzles)

10N SERIES LAVA NOZZLES

Part No.	Description	Orifice	Length
PRS105Z42	#5 Lava	5/16"	1 7/8"
PRS105Z43	#4 Lava	1/4"	1 7/8"
PRS105Z44	#6 Lava	3/8"	1 7/8"
PRS105Z45	#7 Lava	7/16"	1 7/8"
PRS08N78	#8 Lava	1/2"	1 7/8"
PRS08N79	#10 Lava	5/8"	1 7/8"
PRS08N80	#12 Lava	3/4"	1 7/8"
PRS105Z60	#5 Long	5/16"	3 1/4"
PRS105Z61	#7 Long	7/16"	3 1/4"
PRS12N02	#6 Long	3/8"	3 1/4"
PRS12N03	#4 Long	1/4"	3 1/4"

GAS LENS NOZZLES

Part No.	Description	Orifice	Length
PRS54N31	#8 Lava	1/2"	1 11/16"
PRS54N32	#7 Lava	7/16"	1 11/16"
PRS54N33	#6 Lava	3/8"	1 11/16"
PRS54N34	#5 Lava	5/16"	1 11/16"
PRS54N35	#4 Lava	1/4"	1 11/16"
PRS54N36	#11 Lava	11/16"	1 1/8"



13N SERIES LAVA NOZZLES

Part No.	Description	Orifice	Length
PRS796F70	#3 Long	3/16"	1 7/8"
PRS796F74	#3 X-Long	3/16"	2 5/8"
PRS13N14	#4 Lava	1/4"	1 1/8"
PRS796F71	#4 Long	1/4"	1 7/8"
PRS796F75	#4 X-Long	1/4"	2 5/8"
PRS796F79	#4 XX-Long	1/4"	3 1/2"
PRS13N15	#5 Lava	5/16"	1 1/8"
PRS796F72	#5 Long	5/16"	1 7/8"
PRS796F76	#5 X-Long	5/16"	2 5/8"
PRS13N16	#6 Lava	3/8"	1 1/8"
PRS796F73	#6 Long	3/8"	1 7/8"
PRS796F77	#6 X-Long	3/8"	2 5/8"
PRS796F80	#5 XX-Long	3/8"	3 1/2"
PRS13N17	#7 Lava	7/16"	1 1/8"
PRS13N18	#8 Lava	1/2"	1 1/8"
PRS13N19	#10 Lava	5/8"	1 1/8"

24 TORCH NOZZLES

Part No.	Description	Orifice	Length
PRS53N23	.165 Lava	.165"	5/8"
PRS53N24	#4 Lava	1/4"	5/8"
PRS53N25	#5 Lava	5/16"	5/8"
PRS53N26	#6 Long Lava	3/8"	1 1/8"
PRS53N27	#6 Lava	3/8"	5/8"
PRS53N28	#4 Long Lava	1/4"	1 1/8"

ProStar Back Caps



#	Part No.	Description	Length	Qty
1	PRS41V24	Long Back Cap	5 3/4"	2/pkg
2	PRS41V33	Short Back Cap	5/8"	2/pkg
3	PRS41V35	Medium Back Cap	1 7/8"	2/pkg
4	PRS98W77	O-ring		2/pkg
5	PRS57Y02	Long Back Cap	4 3/4"	2/pkg
6	PRS57Y04	Short Back Cap	1"	2/pkg
7	PRS300M	Medium Back Cap	2 1/4"	2/pkg
8	PRS98W18	O-ring		2/pkg
9	PRS56Y44	Long Back Cap	4 1/2"	2/pkg
10	PRS56Y45	Short Back Cap	1 3/16"	2/pkg

ProStar™ Collets & Collet Bodies

10N SERIES COLLETS

Part No.	Description	Size	Qty
PRS10N21	Standard	.020" (0.5mm)	5/pkg
PRS10N21S	Stubby	.020" (0.5mm)	2/pkg
PRS10N22	Standard	.040" (1.0mm)	5/pkg
PRS10N22S	Stubby	.040" (1.0mm)	2/pkg
PRS10N23	Standard	1/16" (1.6mm)	5/pkg
PRS10N23S	Stubby	1/16" (1.6mm)	2/pkg
PRS10N24	Standard	3/32" (2.4mm)	5/pkg
PRS10N24S	Stubby	3/32" (2.4mm)	2/pkg
PRS10N25	Standard	1/8" (3.2mm)	5/pkg
PRS10N25S	Stubby	1/8" (3.2mm)	2/pkg
PRS54N20	Standard	5/32" (4.0mm)	5/pkg

13N SERIES COLLETS

Part No.	Description	Size	Qty
PRS13N20	Standard	.020" (0.5mm)	5/pkg
PRS13N20L	Lg. Gas Lens	.020" (0.5mm)	2/pkg
PRS13N21	Standard	.040" (1.0mm)	5/pkg
PRS13N21L	Lg. Gas Lens	.040" (1.0mm)	2/pkg
PRS13N22	Standard	1/16" (1.6mm)	5/pkg
PRS13N22L	Lg. Gas Lens	1/16" (1.6mm)	2/pkg
PRS13N23	Standard	3/32" (2.4mm)	5/pkg
PRS13N23L	Lg. Gas Lens	3/32" (2.4mm)	2/pkg
PRS13N24	Standard	1/8" (3.2mm)	5/pkg
PRS13N24L	Lg. Gas Lens	1/8" (3.2mm)	2/pkg

85Z SERIES COLLETS

Part No.	Description	Size	Qty
PRS85Z14	Collet	1/16" (1.6mm)	2/pkg
PRS85Z15	Collet	3/32" (2.4mm)	2/pkg
PRS85Z16	Collet	1/8" (3.2mm)	2/pkg
PRS85Z17	Collet	5/32" (4.0mm)	2/pkg
PRS85Z18	Collet	3/16" (4.8mm)	2/pkg
PRS85Z19	Collet	1/4" (6.4mm)	2/pkg

10N SERIES COLLET BODIES

Part No.	Description	Size	Qty
PRS10N28	Collet Body	1/8" (3.2mm)	5/pkg
PRS10N29	Collet Body	.020" (0.5mm)	5/pkg
PRS10N30	Collet Body	.040" (1.0mm)	5/pkg
PRS10N31	Collet Body	1/16" (1.6mm)	5/pkg
PRS10N32	Collet Body	3/32" (2.4mm)	5/pkg
PRS406488	Collet Body	5/32" (4.0mm)	5/pkg

13N SERIES COLLET BODIES

Part No.	Description	Size	Qty
PRS13N25	Collet Body	.020" (0.5mm)	5/pkg
PRS13N26	Collet Body	.040" (1.0mm)	5/pkg
PRS13N27	Collet Body	1/16" (1.6mm)	5/pkg
PRS13N28	Collet Body	3/32" (2.4mm)	5/pkg
PRS13N29	Collet Body	1/8" (3.2mm)	5/pkg



22N SERIES COLLETS

Part No.	Description	Size	Qty
PRS22N22A	Standard	1/16" (1.6mm)	2/pkg
PRS22N22AL	Lg. Gas Lens	1/16" (1.6mm)	2/pkg
PRS22N22B	Standard	1/16" (1.6mm)	2/pkg
PRS22N22BL	Lg. Gas Lens	1/16" (1.6mm)	2/pkg
PRS22N23A	Standard	3/32" (2.4mm)	2/pkg
PRS22N23AL	Lg. Gas Lens	3/32" (2.4mm)	2/pkg
PRS22N23B	Standard	3/32" (2.4mm)	2/pkg
PRS22N23BL	Lg. Gas Lens	3/32" (2.4mm)	2/pkg
PRS22N24A	Standard	1/8" (3.2mm)	2/pkg
PRS22N24AL	Lg. Gas Lens	1/8" (3.2mm)	2/pkg
PRS22N24B	Standard	1/8" (3.2mm)	2/pkg
PRS22N24BL	Lg. Gas Lens	1/8" (3.2mm)	2/pkg

57N SERIES COLLETS

Part No.	Description	Size	Qty
PRS57N45	Collet	.040" (1.0mm)	2/pkg
PRS57N46	Collet	1/16" (1.6mm)	2/pkg
PRS57N47	Collet	3/32" (2.4mm)	2/pkg
PRS57N48	Collet	1/8" (3.2mm)	2/pkg
PRS57N49	Collet	5/32" (4.0mm)	2/pkg
PRS57N50	Collet	3/16" (4.8mm)	2/pkg
PRS57N51	Collet	1/4" (6.4mm)	2/pkg

53N SERIES COLLETS

Part No.	Description	Size	Qty
PRS24C332	Standard	3/32" (2.4mm)	5/pkg
PRS24GLC332	Gas Lens	3/32" (2.4mm)	5/pkg
PRS53N14	Standard	1/16" (1.6mm)	5/pkg
PRS53N15	Standard	.020" (0.5mm)	5/pkg
PRS53N16	Standard	.040" (1.0mm)	5/pkg
PRS53N62	Gas Lens	.020" (0.5mm)	5/pkg
PRS53N63	Gas Lens	.040" (1.0mm)	5/pkg
PRS53N64	Gas Lens	1/16" (1.6mm)	5/pkg

53N SERIES COLLET BODIES

Part No.	Description	Size	Qty
PRS53N17	Collet Body	.020" (0.5mm)	5/pkg
PRS53N18	Collet Body	.040" (1.0mm)	5/pkg
PRS53N19	Collet Body	1/16" (1.6mm)	5/pkg
PRS24CB332	Collet Body	3/32" (2.4mm)	5/pkg

SPECIAL COLLET BODIES

Part No.	Description	Size	Qty
PRS17CB20	Stubby Collet Body	All	2/pkg
PRS11WP65	Collet Body	All	2/pkg

ProStar™ Gas Lenses

MEDIUM GAS LENS

Part No.	Description	Size	Qty
PRS45V24	Gas Lens	.040" (1.0mm)	2/pkg
PRS45V25	Gas Lens	1/16" (1.6mm)	2/pkg
PRS45V26	Gas Lens	3/32" (2.4mm)	2/pkg
PRS45V27	Gas Lens	1/8" (3.2mm)	2/pkg
PRS45V28	Gas Lens	5/32" (4.0mm)	2/pkg
PRS45V29	Gas Lens	.020" (0.5mm)	2/pkg

SMALL GAS LENS

Part No.	Description	Size	Qty
PRS45V41	Gas Lens	.020" (0.5mm)	5/pkg
PRS45V42	Gas Lens	.040" (1.0mm)	5/pkg
PRS45V43	Gas Lens	1/16" (1.6mm)	5/pkg
PRS45V44	Gas Lens	3/32" (2.4mm)	5/pkg
PRS45V45	Gas Lens	1/8" (3.2mm)	5/pkg

LARGE GAS LENS

Part No.	Description	Size	Qty
PRS45V0204	Large DIA G/L	.020"-.040"	2/pkg
PRS45V116	Large DIA G/L	1/16" (1.6mm)	2/pkg
PRS45V63	Large DIA G/L	5/32" (4.0mm)	2/pkg
PRS45V64	Large DIA G/L	3/32" (2.4mm)	2/pkg
PRS995795	Large DIA G/L	1/8" (3.2mm)	2/pkg



STUBBY GAS LENS

Part No.	Description	Size	Qty
PRS45V0204S	Large DIA G/L	.020"-.040"	2/pkg
PRS45V116S	Large DIA G/L	1/16" (1.6mm)	2/pkg
PRS45V64S	Large DIA G/L	3/32" (2.4mm)	2/pkg
PRS995795S	Large DIA G/L	1/8" (3.2mm)	2/pkg

27 SERIES GAS LENS

Part No.	Description	Size	Qty
PRS49V22	Gas Lens	.040" (1.0mm)	1/pkg
PRS49V23	Gas Lens	1/16" (1.6mm)	1/pkg
PRS49V24	Gas Lens	3/32" (2.4mm)	1/pkg
PRS49V25	Gas Lens	1/8" (3.2mm)	1/pkg
PRS49V26	Gas Lens	5/32" (4.0mm)	1/pkg
PRS49V27	Gas Lens	3/16" (4.8mm)	1/pkg
PRS49V28	Gas Lens	1/4" (6.4mm)	1/pkg

12 SERIES GAS LENS

Part No.	Description	Size	Qty
PRS11GL16	Gas Lens	1/16" (1.6mm)	2/pkg
PRS11GL18	Gas Lens	1/8" (3.2mm)	2/pkg
PRS11GL32	Gas Lens	3/32" (2.4mm)	2/pkg
PRS11GL53	Gas Lens	5/32" (4.0mm)	2/pkg
PRS11GL36	Gas Lens	3/16" (4.8mm)	2/pkg

ProStar Master Accessory Kits

Part No.	For Torches
PRSMK-1S	9, 20
Kit Includes:	
4	Back Caps – (1) Short (2) Medium (1) Long
12	Collets – (2) .040" (4) 1/16" (4) 3/32" (2) 1/8"
7	Collet Bodies – (1) .040" (2) 1/16" (2) 3/32" (2) 1/8"
4	Gas Lenses – (1) .040" (1) 1/16" (1) 3/32" (1) 1/8"
1	Cup Gasket
4	O-rings for Back Caps
10	Wire Clamps
PRSMK-2S	17, 18, 26
Kit Includes:	
2	Back Caps – (1) Short (1) Long
10	Collets – (1) .040" (3) 1/16" (3) 3/32" (2) 1/8" (1) 5/32"
8	Collet Bodies – (1) .040" (2) 1/16" (2) 3/32" (2) 1/8" (1) 5/32"
4	Gas Lenses – (1) .040" (1) 1/16" (1) 3/32" (1) 1/8"
2	Cup Gaskets
1	Gas Lens Insulator
4	O-rings for Back Caps



PRSMK-2S shown.

ProStar™ Accessory Kits

Part No.	For Torches
PRSAK-1	9, (Opt 20)
Kit Includes:	
1	Long Back Cap
2	Collets - .040" & 1/16"
2	Collet Bodies - .040" & 1/16"
3	Alumina Nozzles #4, #5, #6
2	Tungsten 7" - .040" & 1/16"

Part No.	For Torches
PRSAK-2	17, (Opt 18, 26)
Kit Includes:	
1	Short Back Cap
3	Collets - .040", 1/16", 3/32"
3	Collet Bodies - .040", 1/16", 3/32"
3	Alumina Nozzles #4, #5, #6
3	Tungsten 7" - .040", 1/16", 3/32"

Part No.	For Torches
PRSAK-3	18, 26, (Opt 17)
Kit Includes:	
1	Short Back Cap
3	Collets - 1/16", 3/32", 1/8"
3	Collet Bodies - 1/16", 3/32", 1/8"
3	Alumina Nozzles #5, #6, #8
3	Tungsten 7" - 1/16", 3/32", 1/8"



PRSAK-3 shown.

Part No.	For Torches
PRSAK-4	20, (Opt 9)
Kit Includes:	
1	Long Back Cap
3	Collets - 1/16", 3/32", 1/8"
3	Collet Bodies - 1/16", 3/32", 1/8"
3	Alumina Nozzles #5, #6, #7
3	Tungsten 7" - 1/16", 3/32", 1/8"

Part No.	For Torch
PRSAK-5	24
Kit Includes:	
2	Collets - .040" & 1/16"
2	Collet Bodies - .040" & 1/16"
3	Lava Nozzles #4, #5, #6
2	Tungsten 7" - .040" & 1/16"

ProStar Torch Handles



#	Part No.	Description	Torches
	PRSH-100	Smooth Push-on	9, 17, 20M, 20F, 24W
1	PRS53N06	Smooth Threaded	20
	PRS105Z55	Smooth Threaded	9FMT, 24FMT, 17FMT, 150M
2	PRSH-100R	Ribbed Push-on	9, 17, 20M, 20F, 24
	PRS105Z55R	Ribbed Threaded	9FMT, 24FMT, 17FMT, 150M
3	PRSH-200	Smooth Push-on	18, 26
	PRS10N15	Smooth Threaded	26FMT, 200M
4	PRSH-200R	Ribbed Push-on	18, 26
	PRS10N15R	Ribbed Threaded	26FMT, 200M
5	PRS85WP13	Smooth Handle	12
6	PRS18PB	Barrel Handle	18P

ProStar™ Power Cable Adapters



Part No.	For Torches
PRS105Z57	9, 17
Threads: 3/8"-24RH, 5/8"-18RH	



Part No.	For Torches
PRS45V11	Water Cooled
Threads: 7/8"-14LH, 5/8"- 8LH	



Part No.	For Torches
PRS45V62	26
Threads: 7/8"-14RH, 5/8"-18RH	



Part No.	For Torches
PRS53N43	24
Threads: 3/8"-24RH, 5/8"-18RH	

ProStar Extension Kits



Part No.	Description	For Torches
PRSEK-1-25	25 ft Vinyl	Water Cooled
Includes:		
(1) 25' Ext. Power Cable (PRS40V78L)		
(1) 25' Water Hose (PRS40V76L)		
(1) 25' Gas Hose (PRS40V77L)		
(1) Power Cable Coupler (PRS11N19)		
(1) Water Hose Coupler (PRS11N18)		
(1) Gas Hose Coupler (PRS11N17)		
(1) Insulator Sleeve (PRS11N19IS)		



Part No.	Description	For Torches
PRSEK-1-25-R	25 ft Rubber	Water Cooled
Includes:		
(1) 25' Ext. Power Cable (PRS40V78LR)		
(1) 25' Water Hose (PRS40V76LR)		
(1) 25' Gas Hose (PRS40V77LR)		
(1) Power Cable Coupler (PRS11N19)		
(1) Water Hose Coupler (PRS11N18)		
(1) Gas Hose Coupler (PRS11N17)		
(1) Insulator Sleeve (PRS11N19IS)		



Part No.	Description	For Torches
PRSEK-26-25-R	25 ft Rubber	26
Includes:		
(1) 25' Ext. Power Cable (PRS46V30EK-R)		
(1) Power Cable Coupler (PRS11N20)		
(1) Insulator Sleeve (PRS11N19IS)		

Part No.	Description	For Torches
PRSEK-2-25-R	25 ft Rubber	9, 17
Includes:		
(1) 25' Ext. Power Cable (PRS57Y03R)		
(1) Power Cable Coupler (PRS430A)		
(1) Insulator Sleeve (PRS430AIS)		



ProStar™ Water Cooled Cables & Hoses



20, 22, 24W, 25 TORCH POWER CABLES & HOSES

#	Part No.	Description
1	PRS45V03	12.5' Power Cable, Vinyl
	PRS45V04	25' Power Cable, Vinyl
2	PRS45V07	12.5' Water Hose, Vinyl
	PRS45V07M	12.5' Water Hose, Vinyl
	PRS45V08	25' Water Hose, Vinyl
3	PRS45V08M	25' Water Hose, Vinyl
	PRS45V09	12.5' Gas Hose, Vinyl
4	PRS45V10	25' Gas Hose, Vinyl
	PRS45V03R	12.5' Power Cable, Braided Rubber
5	PRS45V04R	25' Power Cable, Braided Rubber
	PRS45V07R	12.5' Water Hose, Braided Rubber
6	PRS45V07RM	12.5' Water Hose, Braided Rubber
	PRS45V08R	25' Water Hose, Braided Rubber
	PRS45V08RM	25' Water Hose, Braided Rubber
	PRS45V09R	12.5' Gas Hose, Braided Rubber
	PRS45V10R	25' Gas Hose, Braided Rubber



18 TORCH POWER CABLES & HOSES

#	Part No.	Description
7	PRS40V64	12.5' Power Cable, Vinyl
	PRS41V29	25' Power Cable, Vinyl
8	PRS40V74	12.5' Water Hose, Vinyl
	PRS41V32	25' Water Hose, Vinyl
9	PRS40V75	12.5' Gas Hose, Vinyl
	PRS41V30	25' Gas Hose, Vinyl
10	PRS40V64R	12.5' Power Cable, Rubber
	PRS40V64P	12.5' Power Cable, Rubber (18P)
	PRS41V29R	25' Power Cable, Rubber
11	PRS41V29P	25' Power Cable, Rubber (18P)
	PRS40V74R	12.5' Water Hose, Braided Rubber
12	PRS41V32R	25' Water Hose, Braided Rubber
	PRS40V75R	12.5' Gas Hose, Braided Rubber
	PRS41V30R	25' Gas Hose, Braided Rubber



12 & 27 TORCH POWER CABLES & HOSES

#	Part No.	Description
13	PRS40V84R-3	3' Power Cable, Rubber
	PRS40V84R	12.5' Power Cable, Rubber
	PRS40V84RL	25' Power Cable, Rubber
14	PRS40V83R-3	3' Water Hose, Rubber
	PRS40V83R	12.5' Water Hose, Rubber
	PRS40V83RL	25' Water Hose, Rubber
15	PRS40V82R-3	3' Gas Hose, Rubber
	PRS40V82R	12.5' Gas Hose, Rubber
	PRS40V82RL	25' Gas Hose, Rubber

ProStar™ Air Cooled Power Cables



9, 17, & 150M TORCH POWER CABLES

Part No.	Description
PRS57Y01R	12.5' Power Cable, Rubber
PRS57Y03R	25' Power Cable, Rubber

Part No.	Description
PRS57Y01-2	12.5' Power Cable, 2 piece
PRS57Y03-2	25' Power Cable, 2 piece

26 & 200M TORCH POWER CABLES

Part No.	Description
PRS46V28-R	12.5' Power Cable, Rubber
PRS46V30-R	25' Power Cable, Rubber

Part No.	Description
PRS46V28-2	12.5' Power Cable, 2 piece
PRS46V30-2	25' Power Cable, 2 piece

24 TORCH POWER CABLES

Part No.	Description
PRS56Y38R	12.5' Power Cable, Rubber
PRS56Y97R	25' Power Cable, Rubber

ProStar Style TIG Hook-Up Kits



Part No.	Description	For Torches
PRSHK-1	Vinyl	Water-cooled

Includes:
 (1) Power Cable Adapter (PRS45V11)
 (1) Water Hose Coupler (PRS11N18)
 (2) 12.5' Water Hoses (PRS40V76)
 (2) Water Adapters (PRSA405)
 (1) 12.5' Gas Hose (PRS40V77)



Part No.	Description	For Torches
PRSHK-2	Vinyl	Air-cooled

Includes:
 (1) 12.5' Gas Hose (PRS40V77)
 (1) Argon Coupler Extension (PRS11N17)
 NOTE: You must order the correct power cable adapter



Part No.	Description	For Torches
PRSHK-3	Vinyl	Air-cooled

Includes:
 (1) 12.5' Gas Hose (PRS40V77)
 (1) 18" Gas Hose (PRS40V77-18)
 NOTE: You must order the correct power cable adapter

ProStar™ Dinse Connectors



Part No.	For Torches
PRSDP-25M	9, 17, 150M
Description: Dinse Connector 9.0mm / .355" set-screw fitting for connection to welding cable Connection to Power Cables – 57Y01-2, 57Y03-2	



Part No.	For Torches
PRSDI-917FS	9, 17, 150M
Description: Dinse Connector 9.0mm / .355" with in-line gas hole for use with machines equipped with gas solenoids, 3/8"-24RH power cable connection Connection to Power Cables – 57Y01R, 57Y03R	



Part No.	For Torches
PRSDA-917FS	9, 17, 150M
Description: Dinse Connector 9.0mm / .355" with 18" gas auxiliary hose with 5/8"-18RH nut, 3/8"-24RH power cable connection Connection to Power Cables – 57Y01R, 57Y03R	



Part No.	For Torches
PRSDP-50M	All Air Cooled 2-Piece Cable
Description: Dinse Connector 12.9mm / .508" with set-screw fitting for connection to welding cable Connection to Power Cables – 57Y01-2, 57Y03-2, 46V28-2, 46V30-2	



Part No.	For Torches
PRSDI-917F	9, 17, 150M
Description: Dinse Connector 12.9mm / .508" with in-line gas hole for use with machines equipped with gas solenoids, 3/8"-24RH power cable connection Connection to Power Cables – 57Y01R, 57Y03R	



Part No.	For Torches
PRSDA-917F	9, 17, 150M
Description: Dinse Connector 12.9mm / .508" with 18" gas auxiliary hose with 5/8"-18RH nut, 3/8"-24RH power cable connection Connection to Power Cables – 57Y01R, 57Y03R	



Part No.	For Torches
PRSDA-26R	26, 200M
Description: Dinse Connector 12.9mm / .508" with 18" gas auxiliary hose with 5/8"-18RH nut, 7/8"-14RH power cable connection Connection to Power Cables – 46V28-R, 46V30-R	



Part No.	For Torches
PRSDI-26R	26, 200M
Description: Dinse Connector 12.9mm / .508" with in-line gas hole for use with machines equipped with gas solenoids, 7/8"-14RH power cable connection Connection to Power Cables – 46V28-R, 46V30-R	

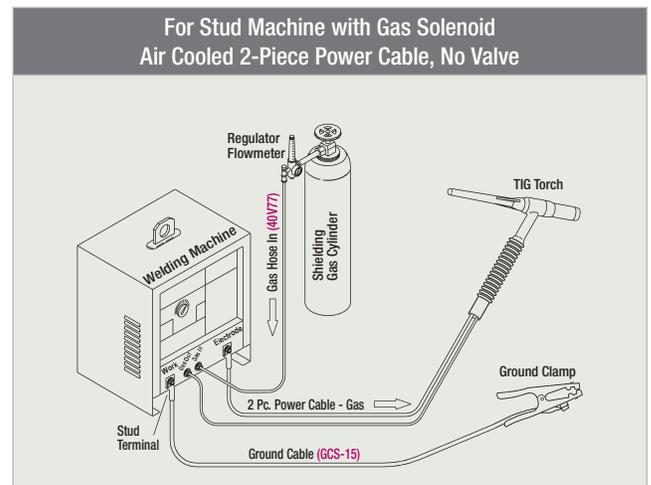
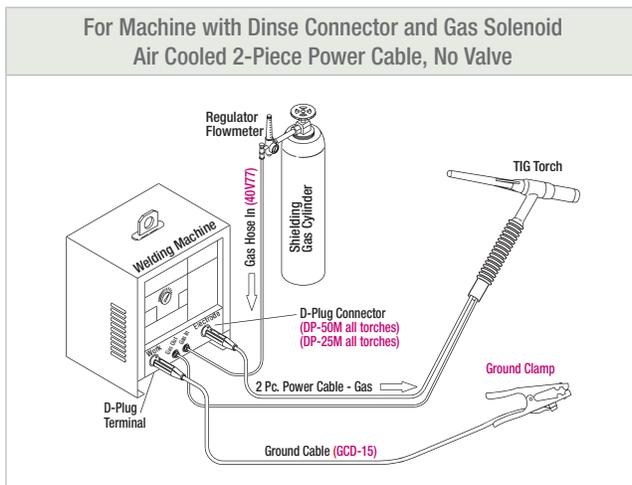
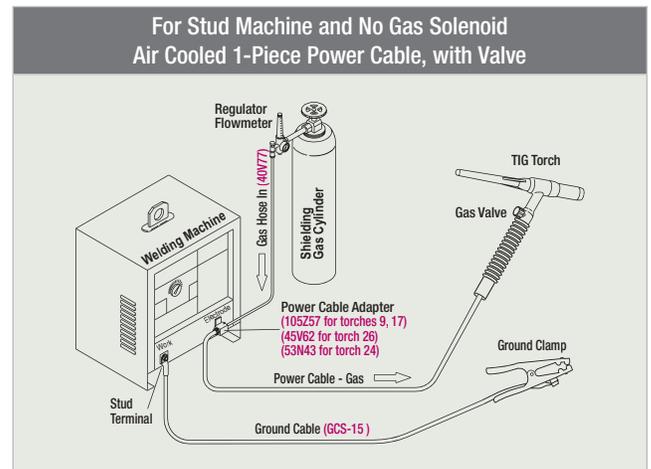
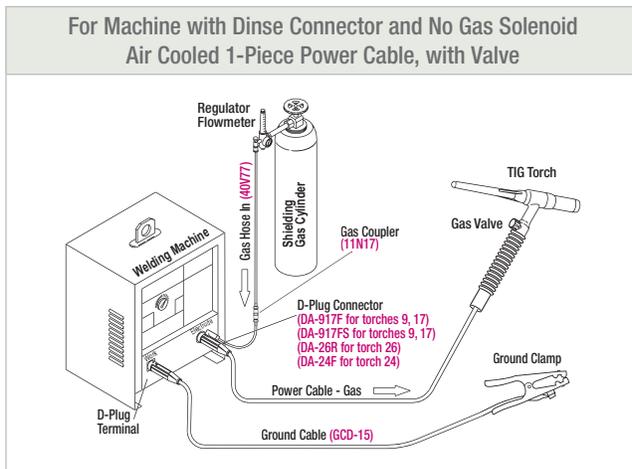
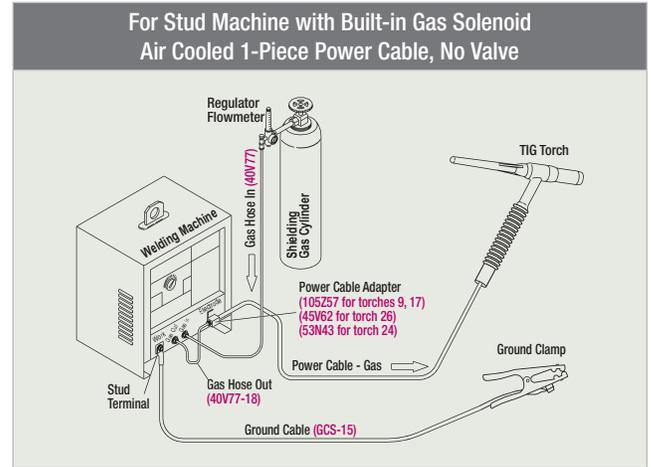
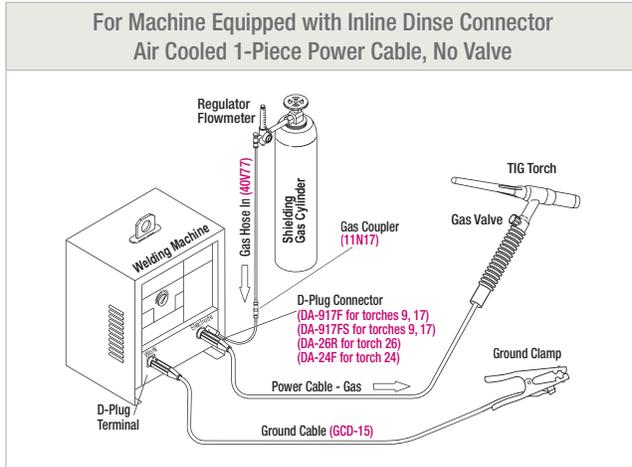


Part No.	For Torches
PRSDA-24F	26, 200M
Description: Dinse Connector 12.9mm / .508" with 18" gas auxiliary hose with 5/8"-18RH nut, 3/8"-24RH power cable connection, Connection to Power Cables – 56Y38R, 56Y97R	



Part No.	For Torches
PRSDA-1820L	All Water Cooled
Description: Dinse Connector 12.9mm / .508" with 18" water auxiliary hose with 5/8"-18RH nut, 7/8"-14RH power cable connection, Connection to Power Cables – all Water Cooled	

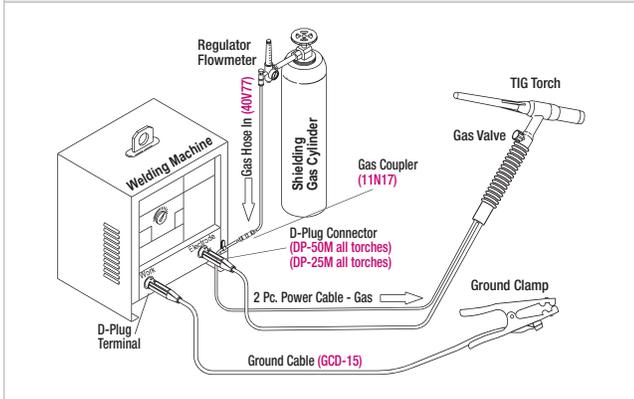
ProStar™ TIG Torch Hookups Air Cooled



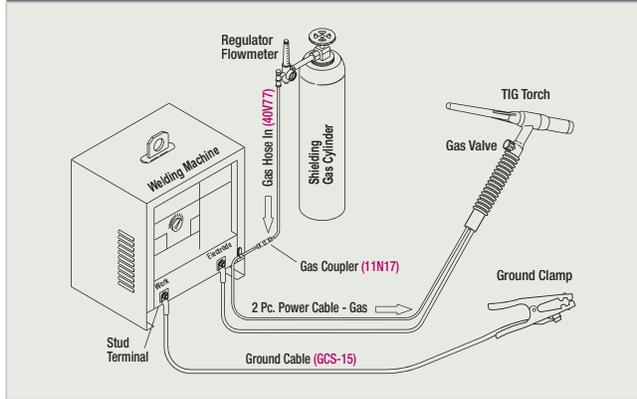
ProStar™ TIG Torch Hookups

Water Cooled

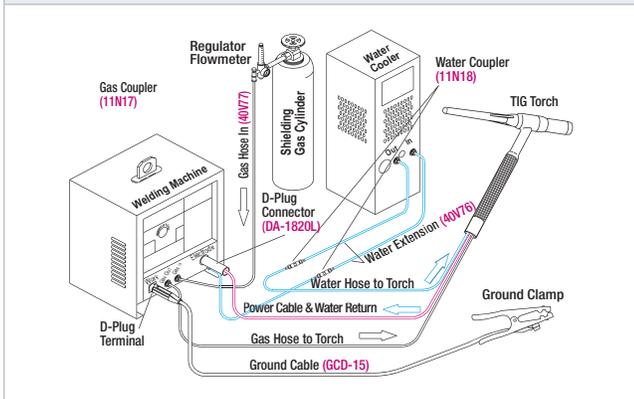
For Machine with Dinse Connector and No Gas Solenoid
Air Cooled 2-Piece Power Cable, with Valve



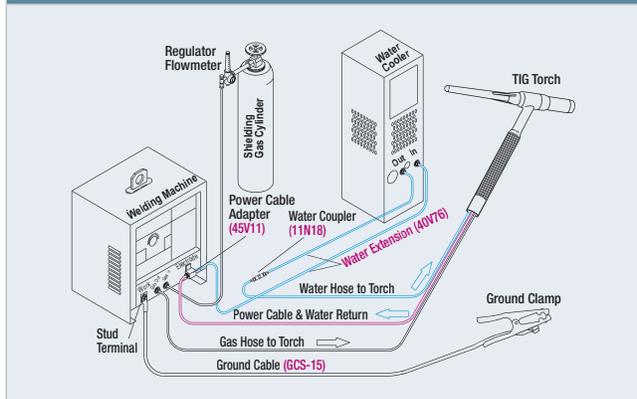
For Stud Machine with No Gas Solenoid
Air Cooled 2-Piece Power Cable, with Valve



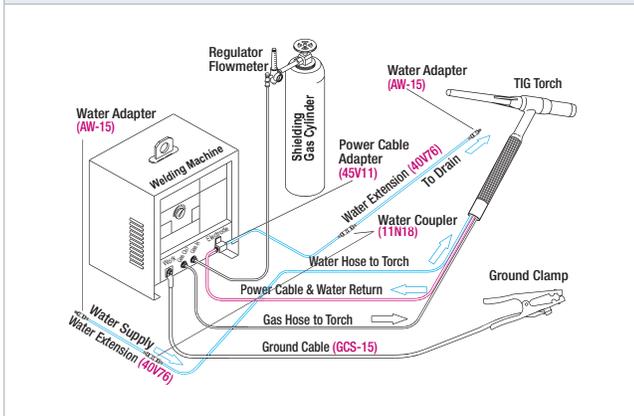
For Machine with Dinse Connector and with Gas Solenoid
Water Cooled Power Cable, Water Cooler



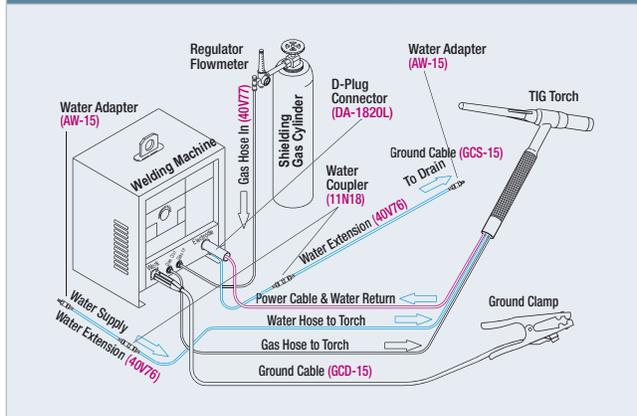
For Stud Machine and with Gas Solenoid
Water Cooled Power Cable, Water Cooler



For Stud Machine and with Gas Solenoid
Water Cooled Power Cable, City Water Supply



For Machine with Dinse Connector and with Gas Solenoid
Water Cooled Power Cable, City Water Supply



ProStar™ Tungsten & Tungsten Grinders

ProStar E3® Tungsten Electrodes B67

ProStar Tungsten Electrodes B68

ProStar Wet Tungsten Grinders B69

ProStar Auto-Grind for Wet Tungsten Grinders B70



PROSTAR
by Praxair

Premium Quality
Primera Calidad/Primera Calidad

Tungsten Electrodes
Electrodos de tungsteno
Electrodos Tungsteno

PRS40187E3
(EWG) **E3**

98.34% W + 1.5% La₂O₃ + .08% ZrO₂ + .08% Y₂O₃

1/8" X 7"
(3.2 x 175mm)

Qty./Cont./Qté. 10

Ground & Annealed
Polié et recuit
Molido y Recocido

AWS A5.12WAS 12.2005
USC

PROSTAR
by Praxair
PRS 1328XL

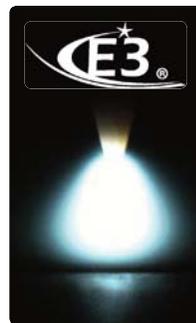
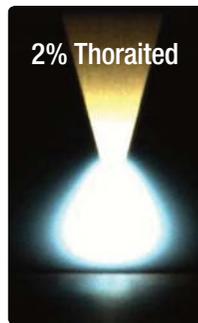
E3 Tungsten Electrodes

E3 Electrodes Run Much Cooler, Extending Tip Life

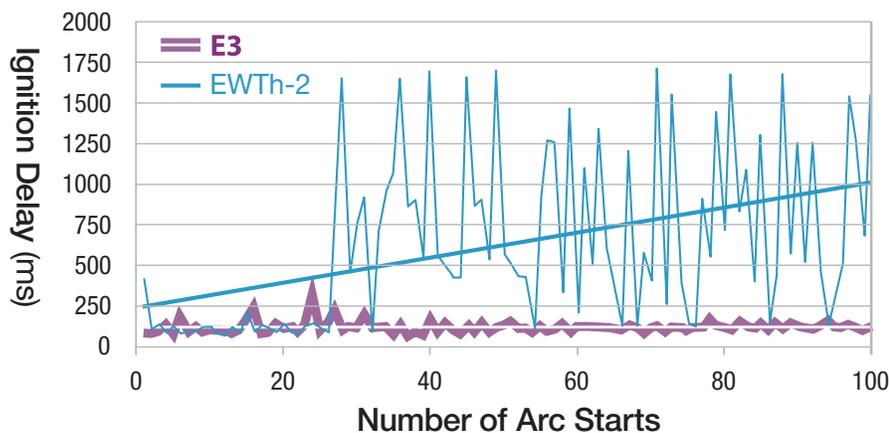
Electrodes run approx 1,650 °F cooler than 2% thoriated at the same output energy



- Longer life
- Stable tip & arc geometry
- Best choice to replace thoriated electrodes
- Non-radioactive additives
- Proven to outperform other electrodes
- Can be used in both DC & AC processes



- AWS Spec. A5.12M/A5.12:2009
- AWS Class. EWG
- Color Code: Purple
- Chemical Specification: 98.34% W (tungsten) + 1.5% La₂O₃ + .08% ZrO₂ + .08% Y₂O₃



Testing has shown that ignition delay with E3 actually improves over time, while thoriated tungsten begins to deteriorate after only 25 starts.

STARTS FASTER
MAINTAINS A STABLE ARC!



Size	Qty/Pack	E3 Part No.
.020" x 7"	10	PRS400207E3
.040" x 7"	3	PRS400407E3-3
.040" x 7"	10	PRS400407E3
1/16" x 3"	10	PRS401163E3
1/16" x 7"	3	PRS401167E3-3
1/16" x 7"	10	PRS401167E3
1/16" x 12"	10	PRS4011612E3
1/16" x 18"	10	PRS4011618E3
3/32" x 3"	10	PRS403323E3
3/32" x 7"	3	PRS403327E3-3
3/32" x 7"	10	PRS403327E3
3/32" x 12"	10	PRS4033212E3
3/32" x 18"	10	PRS4033218E3
1/8" x 7"	3	PRS40187E3-3
1/8" x 7"	10	PRS40187E3
5/32" x 7"	10	PRS405327E3
3/16" x 7"	5	PRS403167E3-5
3/16" x 12"	5	PRS4031612E3-5



www.prostar-e3.com

ProStar™ Tungsten Electrodes



ProStar's Highest Quality Electrode

- Manufactured to comply with ISO9001 Certification
- Meets AWS/ANSI specifications
- Precision ground for maximum smoothness

Quality Tungsten Electrodes

• PURE

Minimum 99.5% tungsten is used mainly with alternating current (AC) for welding of aluminum and magnesium alloys. AC current causes the electrode to form a clean, balled end. Pure tungsten is more prone to contamination of the weld than other types of tungsten. It may be used as a shielding gas with direct current (DC), with Ar, He, or a mixture of both.

• 1.5% LANTHANATED

Non-radioactive. Best for use in direct current (DC). Best for non-corroding steels, titanium, nickel, and copper alloys. Good arc starts and stability; low erosion rate with a wide amperage range.

• 2% LANTHANATED

Non-radioactive. Good general-purpose electrode for both alternating current (AC) or direct current (DC). Recommended for low-alloyed and non-corroding steels, aluminum, magnesium, titanium, nickel, and copper alloys.

• 2% CERIATED

Non radioactive. Best when used with alternating current (AC) on aluminum and magnesium alloys. Balls easily, provides improved arc stability and ease of starting.

• ZIRCONIATED

Best for use with alternating current (AC). Retains a balled end for welding of aluminum and magnesium alloys and has a high resistance to contamination. Produces a stable arc. Not recommended for direct current (DC) applications.

Size	Qty/Pack	Pure	1.5% Lanthanated	2% Lanthanated	2% Ceriated	Zirconiated
.020" x 7"	10	PRS40229	PRS40231		PRS40230	PRS402232
.040" x 7"	10	PRS40226	PRS40235	PRS40236	PRS40234	PRS40237
1/16" x 3"	10	PRS40238	PRS40240		PRS40239	PRS40241
1/16" x 7"	3 10	PRS401167G-3 PRS40203	PRS40205	PRS40221	PRS40216	PRS40217
3/32" x 3"	10	PRS40256	PRS40206		PRS40257	PRS40258
3/32" x 7"	3 10	PRS403327-3 PRS40207	PRS40209	PRS40224	PRS40218	PRS40219
1/8" x 3"	10	PRS40248	PRS40250		PRS40249	PRS40251
1/8" x 7"	3 10	PRS40187G-3 PRS40200	PRS40202	PRS40222	PRS40212	PRS40213
5/32" x 7"	10	PRS40220	PRS40205	PRS40225	PRS40227	PRS40228
3/16" x 7"	5	PRS40252	PRS40214	PRS40223	PRS40253	PRS40254
1/4" x 7"	5	PRS40242	PRS40244	PRS40245	PRS40243	PRS40246

ProStar™ Wet Tungsten Grinders

Wet Diamond Grinding for Smooth Finish

- Minimal waste of tungsten electrodes
- Grinder stand organizes electrode clamps & holders
- Quick adjustments of grinding angle from 7.5° to 90°
- Correct longitudinal grinding of electrode



Adjustable
Tip Flattening

ProSharp™-Cut
Cuts Electrode
Lengths From
6 1/8" to 5/16"



Grinding
Chamber



Cutting
Chamber

6 1/8"

5/16"

ProSharp™ WET TUNGSTEN GRINDER

Part No.	Description
PRS88897030	ProStar Wet Tungsten Grinder, 110 V, 60HZ

Grinder Comes With:

- Electrode holder
- 1/16", 3/32", 1/8" electrode clamps
- Grinding liquid
- Grinder stand

COMMONLY ORDERED SPARE PARTS

Part No.	Description
PRS44490512	Diamond Grinding Wheel
PRSW95/1-12	Grinding Liquid 8 oz Bottle
PRS44490520	Diamond Cut-off Wheel (ProSharp-Cut Only)
PRS44510164	3/32" Electrode Clamp
PRS44510165	1/8" Electrode Clamp
PRSW95/1-45	Liquid Containing Dust Receiving Bottle
PRSW95/1-07	Inspection Cover (Clear Plastic)
PRSW95/1-10	Gasket for Inspection Cover

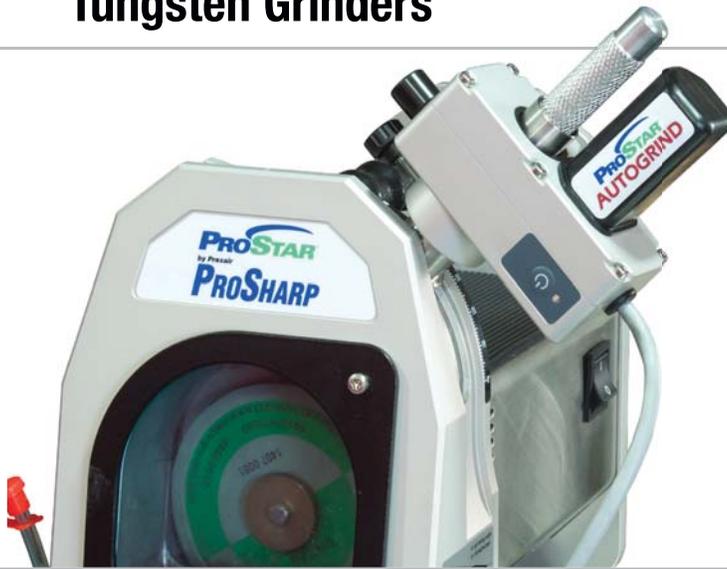
ProSharp-Cut WET TUNGSTEN GRINDER/CUTTER

Part No.	Description
PRS88897530	ProStar Wet Tungsten Grinder/Cutter, 110 V, 60 Hz

Grinder Comes With:

- Electrode holder
- 1/16", 3/32", 1/8" electrode clamps
- 1/16", 3/32", 1/8" cut-off clamps
- Cut-off collet tool
- 2 each cut-off receptacles for contaminated tungsten
- Grinding liquid, grinder stand

ProStar™ Auto-Grind for Wet Tungsten Grinders



Extend the Life of Your Diamond Wheel

- Smooth, quick grinds
- Saves time and money
- Programmable grind time

Part No.	Description
PRS88897830	Autogrind for ProSharp Grinders, 120 V, 60 Hz

ProStar Portable Tungsten Grinder

- Portable tungsten grinding system means less welding down time
- Enclosed grinding system protects the welder and the environment
- Better TIG welding with a stable arc and consistent level of penetration
- Correct electrode grain direction and automatic collection of grinding dust
- Multiple grinding positions ensure long grinding wheel life

Grinder Comes With:

- Electrode holder
- 1/16", 3/32", 1/8" collets
- Spanner and hex wrench
- Carrying case



Part No.	Description
PRS88896022	ProStar Portable Tungsten Grinder, 120 V



Scan here to see the *Auto-Grind* in action, or navigate online to: www.prostar-e3.com/autogrind

COMMONLY ORDERED SPARE PARTS

Part No.	Description
PRS44510030	Diamond Grinding Wheel
PRS44510260	Filter Cassette
PRS44510162	1/16" Electrode Clamp
PRS44510164	3/32" Electrode Clamp
PRS44510165	1/8" Electrode Clamp
PRS44510290	Inspection Cover (Clear Plastic)
PRS44510174	5/32" Electrode Clamp

ProStar™ Welding Cable

The Heavy-Duty Arc Welding Cable that Provides Excellent Flexibility & Durability

All connector sizes



Resists oil, burning, abrasion, & cold weather

- Rated at 600 volts for intermittent use (up to three hours continuous use)
- Connects electrode holder and clamp to arc welder, welding box or transformer

The total circuit length includes both welding and ground leads (based on 4-volt drop), 60% duty cycle

ProStar Welding Cable					
GA	Footage	Package	Color	Part No.	Description
#6	500	Reel	Black	PRS6-500	Weld Cable #6 500'
#4	500	Reel	Black	PRS4-500	Weld Cable #4 500'
#2	500	Reel	Black	PRS2-500	Weld Cable #2 500'
#2	500	Reel	Yellow	PRS2-500-YEL	Weld Cable #2 Yellow 500'
#2	500	Reel	Red	PRS2-500-RED	Weld Cable #2 Red 500'
#2	500	Reel	Blue	PRS2-500-BLU	Weld Cable #2 Blue 500'
#2	500	Reel	Green	PRS2-500-GRN	Weld Cable #2 Green 500'
#1	500	Reel	Black	PRS1-500	Weld Cable #1 500'
#1	500	Reel	Yellow	PRS1-500-YEL	Weld Cable #1 Yellow 500'
#1	500	Reel	Red	PRS1-500-RED	Weld Cable #1 Red 500'
#1	500	Reel	Blue	PRS1-500-BLU	Weld Cable #1 Blue 500'
#1	500	Reel	Green	PRS1-500-GRN	Weld Cable #1 Green 500'
1/0	500	Reel	Black	PRS1/0-500	Weld Cable #1/0 500'
1/0	500	Reel	Yellow	PRS1/0-500-YEL	Weld Cable #1/0 Yellow 500'
1/0	500	Reel	Red	PRS1/0-500-RED	Weld Cable #1/0 Red 500'
1/0	500	Reel	Blue	PRS1/0-500-BLU	Weld Cable #1/0 Blue 500'
1/0	500	Reel	Green	PRS1/0-500-GRN	Weld Cable #1/0 Green 500'
2/0	500	Reel	Black	PRS2/0-500	Weld Cable #2/0 500'
2/0	500	Reel	Yellow	PRS2/0-500-YEL	Weld Cable #2/0 Yellow 500'

ProStar Welding Cable					
GA	Footage	Package	Color	Part No.	Description
2/0	500	Reel	Red	PRS2/0-500-RED	Weld Cable #2/0 Red 500'
2/0	500	Reel	Blue	PRS2/0-500-BLU	Weld Cable #2/0 Blue 500'
2/0	500	Reel	Green	PRS2/0-500-GRN	Weld Cable #2/0 Green 500'
3/0	500	Reel	Black	PRS3/0-500	Weld Cable #3/0 500'
4/0	500	Reel	Black	PRS4/0-500	Weld Cable #4/0 500'
#6	250	Reel	Black	PRS6-250	Weld Cable #6 250'
#4	250	Reel	Black	PRS4-250	Weld Cable #4 250'
#2	250	Reel	Black	PRS2-250	Weld Cable #2 250'
#1	250	Reel	Black	PRS1-250	Weld Cable #1 250'
#1	250	Reel	Red	PRS1-250-RED	Weld Cable #1 Red 250'
1/0	250	Reel	Black	PRS1/0-250	Weld Cable #1/0 250'
2/0	250	Reel	Black	PRS2/0-250	Weld Cable #2/0 250'
3/0	250	Reel	Black	PRS3/0-250	Weld Cable #3/0 250'
4/0	250	Reel	Black	PRS4/0-250	Weld Cable #4/0 250'

Flexwhip™ Welding Cable					
GA	Footage	Package	Color	Part No.	Description
#2	250	Reel	Orange	PRS2WHIP-250	Cable Whip #2 Orange #2 250'
#1	250	Reel	Orange	PRS1WHIP-250	Cable Whip #2 Orange #1 250'
1/0	250	Reel	Orange	PRS1/0WHIP-250	Cable Whip #2 Orange #1/0 250'
2/0	250	Reel	Orange	PRS2/0WHIP-250	Cable Whip #2 Orange #2/0 250'

ProStar™ Welding Cable → continued

Amp	Up to 100' (30 m)	150' (46 m)	200' (61 m)	250' (77 m)	300' (92 m)	350' (106 m)	400' (122 m)
100	4	4	2	2	1	1/0	1/0
150	4	2	1	1/0	2/0	3/0	3/0
200	2	1	1/0	2/0	3/0	4/0	4/0
250	1	1/0	2/0	3/0	4/0		
300	1/0	2/0	3/0	4/0			
350	1/0	3/0	4/0				
400	2/0	3/0					
450	2/0	4/0					
500	3/0	4/0					
550	3/0	4/0					
600	4/0						

Suggested Ampacity for Welding Cable

Required cable sizes in AWG numbers

ProStar Boxed/Cut Welding Cable

GA	Footage	Package	Color	Part No.	Description
#6	25	Bag	Black	PRS3K017	Weld Cable #6 (25' Box) Prs
#6	50	Bag	Black	PRS3K018	Weld Cable #6 (50' Box) Prs
#6	100	Bag	Black	PRS3K019	Weld Cable #6 (100' Box) Prs
#4	25	Bag	Black	PRS3K007	Weld Cable #4 (25' Box) Prs
#4	50	Bag	Black	PRS3K008	Weld Cable #4 (50' Box) Prs
#4	100	Bag	Black	PRS3K006	Weld Cable #4 (100' Box) Prs
#2	25	Bag	Black	PRS3K004	Weld Cable #2 (25' Box) Prs
#2	50	Bag	Black	PRS3K005	Weld Cable #2 (50' Box) Prs
#2	100	Bag	Black	PRS3K003	Weld Cable #2 (100' Box) Prs
#1	25	Bag	Black	PRS3K001	Weld Cable #1 (25' Box) Prs
#1	50	Bag	Black	PRS3K002	Weld Cable #1 (50' Box) Prs
#1	100	Box	Black	PRS3K000	Weld Cable #1 (100' Box) Prs
1/0	25	Bag	Black	PRS3K010	Weld Cable #1/0 (25' Box) Prs
1/0	50	Bag	Black	PRS3K011	Weld Cable #1/0 (50' Box) Prs
1/0	100	Box	Black	PRS3K009	Weld Cable #1/0 (100' Box) Prs
2/0	25	Bag	Black	PRS3K013	Weld Cable #2/0 (25' Box) Prs
2/0	50	Bag	Black	PRS3K014	Weld Cable #2/0 (50' Box) Prs
2/0	100	Box	Black	PRS3K012	Weld Cable #2/0 (100' Box) Prs

ProStar Boxed/Cut Welding Cable

GA	Footage	Package	Color	Part No.	Description
3/0	25	Box	Black	PRS3K020	Weld Cable #3/0 (25' Box) Prs
3/0	50	Box	Black	PRS3K021	Weld Cable #3/0 (50' Box)
3/0	100	Box	Black	PRS3K022	Weld Cable #3/0 (100' Box)
4/0	25	Box	Black	PRS3K023	Weld Cable #4/0 (25' Box)
4/0	50	Box	Black	PRS3K015	Weld Cable #4/0 (50' Box)
4/0	100	Box	Black	PRS3K016	Weld Cable #4/0 (100' Box)

ProStar Power Cord

GA	Footage	Package	Color	Part No.	Description
12/3	250	Reel	Black	PRS12/3-250	Primary Cable 12/3
10/3	250	Reel	Black	PRS10/3-250	Primary Cable 10/3
10/4	250	Reel	Black	PRS10/4-250	Primary Cable 10/4
8/3	250	Reel	Black	PRS8/3-250	Primary Cable 8/3
8/4	250	Reel	Black	PRS8/4-250	Primary Cable 8/4
6/3	250	Reel	Black	PRS6/3-250	Primary Cable 6/3
6/4	250	Reel	Black	PRS6/4-250	Primary Cable 6/4

ProStar™ Welding Cable Accessories



TWIST-LOCK
FOR QUICK CONNECTIONS

ProStar Cable Connectors

Designed to efficiently conduct the current through a detachable-type connection. With a twist, our positive-cam mechanical design enables lock-in, and pulls the two halves tightly together. Connector covers feature a remarkable resistance to heat, cold, abrasion, oils, and solvents.

Part No.	Description	Cable Capacity
PRS99574	Complete Set of Connectors 1WPC	4, 2, 1
PRS99575	Male Half Connector only 1WPC-P	4, 2, 1
PRS99576	Female Half Connector only 1WPC-R	4, 2, 1
PRS99577	Complete Set of Connectors 2WPC	1/0, 2/0, 3/0
PRS99578	Male Half Connector Only 2WPC-P	1/0, 2/0, 3/0
PRS99579	Female Half Connector Only 2WPC-R	1/0, 2/0, 3/0



NO SOLDERING
NO BOLTING

ProStar Cable Lugs

HAMMER-ON TYPE

Easy and convenient—no special tools required. Hammer strike makes a solid connection. Excellent pull-out resistance with no soldering or bolting.

Part No.	AMP	Cable Capacity	Socket ID	
	Capacity	AWG	Inches	mm
PRS3J013	150	6 – 2	1/2	13
PRS3J014	200	2 – 1	1/2	13
PRS3J015	300	1/0 – 2/0	35/64	14
PRS3J016	300	1/0 – 2/0	35/64	14
PRS3J017	300	1/0 – 2/0	35/64	14
PRS3J018	500	3/0 – 4/0	5/8	16
PRS3J019	500	3/0 – 4/0	5/8	16
PRS3J020	500	3/0 – 4/0	5/8	16

SOLDER TYPE

Extra long barrel for easy soldering. Easy-to-use flared end for fast cable access. Precision-made with copper tubing.



EXTRA-LONG
BARREL

Part No.	AMP	Cable Capacity	Socket ID	
	Capacity	AWG	Inches	mm
PRS32157	150	6 – 2	.461	11.7
PRS32154	150	1 – 2/0	.559	14.2
PRS32155	150	3/0 – 4/0	.660	16.7
PRS32156	150	4/0 heavy-duty	.776	19.7

Welding Cable Accessories *continued* →

ProStar™ Ground Clamps

Ensure weld quality with a high-quality ground clamp

Unique Design

Helps eliminate arc blow

MEDIUM DUTY COPPER ALLOY



- 98% copper alloy jaws
- Fully insulated spring
- Strong gripping power

HEAVY DUTY COPPER ALLOY



- Contoured handle lever for easy jaw opening
- Fully insulated spring, strong gripping power
- Large contact area ensures positive grounding
- Conductor body holds cable securely



LIGHT BODY STEEL



- Direct ground through copper alloy jaw
- Large contact area ensures positive grounding

LIGHT DUTY ZINC PLATED



- Zinc plated
- Large hex-screw cable connection
- Unique design eliminates arc blow

MEDIUM DUTY MAGNETIC ROTARY



- Strong gripping power
- Large contact area ensures excellent electrical contact
- Easy installation and removal
- Insulated to prevent annealing

Part No.	Amperage Model	Jaw Opening Capacity	in	mm	Cable Size
Medium Duty					
PRS32126	GC-300	300	1-1/2	38	3/0
PRS32124	GC-500	500	2	51	4/0
Heavy Duty					
PRS3J010	LGC-200	200	1	25	1 – 1/0
PRS3J011	LGC-300	300	1-1/2	40	1/0 – 3/0
PRS3J012	LGC-500	500	1-1/2	40	2/0 – 4/0
Steel Body					
PRS32132	SGC-300	300	2	51	2/0
PRS32135	SGC-500	500	2	51	2/0
Zinc Plated					
PRS3J007	EG-200	200	1-1/2	40	6 – 4
Magnetic/Rotary					
PRS3J008	MGC-300	250			2/0
PRS3J009	MGC-500	800			2/0

ProStar™ Welding Cable Accessories → *continued*

ProStar Electrode Holders

Tong-style electrode holder, fully insulated, with protected springs for durability and ease of use. High-strength spring for excellent gripping power. Ergonomically designed lever for optimal hand clearance and a better hold.

Grooved Jaw Design Ensures Firm Electrode Grip

- Made from high-quality materials for high conductivity and improved cable connections
- Heavy-duty, shock-proof nylon handles



Tweco® Style
PRS3J500



Lenco® Style
PRS3J001



Lenco Style
PRS3J003

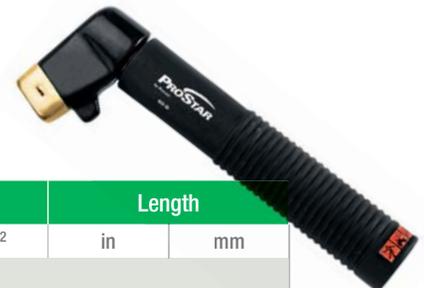


Jackson® Style
PRS3J005

Part No.	Model	Amperage Capacity		Electrode Capacity		Cable Capacity		Length	
		Amps		in	mm	AWG	mm ²	in	mm
Tweco Style									
PRS3J500	A-532	200		Up to 5/32	4.0	2/0	70	8-1/2	216
PRS3J501	A-316	250		Up to 3/16	4.8	2/0	70	9-1/4	235
PRS3J502	A-732	300		Up to 7/32	5.6	2/0	70	10	254
Lenco Style									
PRS3J000	AF-1	150		Up to 5/32	4.0	1/0	50	8	215
PRS3J001	AF-2	200		Up to 5/32	4.0	1/0	50	8	215
PRS3J004	JH-1	250		Up to 3/16	4.8	1/0	50	8	215
PRS3J002	AF-25	250		Up to 3/16	4.8	2/0	70	8	215
PRS3J003	AF-3	300		Up to 1/4	6.4	2/0	70	10	250
PRS3J005	AW-C	300		Up to 1/4	6.4	2/0	70	10	250

ProStar Stub-Style Holder

Angled head allows excellent production visibility. Heavy-duty, fully insulated, shock-proof nylon handle. Better maneuverability, great for tight spaces.



Part No.	Model	Amperage Capacity		Electrode Capacity		Cable Capacity		Length	
		Amps		in	mm	AWG	mm ²	in	mm
Lenco Style									
PRS3J006	40-B	400		Up to 3/16	4.8	3/0	95	8-3/4	220



Stargon™ AL Welding Blend

Improves aluminum GMAW & GTAW welding performance and travel speeds

BEAD APPEARANCE

ARGON



STARGON AL BLEND



By increasing arc stability, arc energy and overall arc performance, Praxair's *Stargon* AL blend improves bead appearance, can reduce the cleaning zone, and provides better wetting and weld penetration – increasing process weld quality and operator appeal.

- Argon-based blend
- Improved arc stability and arc energy
- Better penetration and wetting
- Can reduce the cleaning zone
- For use with TIG and MIG welding processes

Maximize aluminum welding productivity with Stargon AL shielding gas blend.

PRAXAIR
Making our planet more productive



Lancer PRS4 shown

Automate Your Cutting Process Without Breaking the Bank

Introducing the **ProStar™ Lancer™ PRS4** Cutting Machine Starting at just under \$25K

HIGH-END FEATURES AT AN AFFORDABLE PRICE:

- 100% welded frame work – easily deployable with no tedious framework assembly required
- Exceptional cut quality using available Hypertherm or Thermal Dynamics plasma systems
- Material capacity up to 7/8"
- User friendly CNC controller includes part nesting, shape library and CAD/CAM capability
- 4' x 4' effective cut dimensions (other sizes available)

With effective cut dimensions of 4' x 4' (other sizes available), the Lancer PRS4 cutting system can provide an affordable and easily deployable upgrade to your process. Ideal for an introduction to CNC cutting or an educational facility training new fabricators.

Take production to higher speeds with a ProStar Lancer CNC cutting system.

PRAXAIR
Making our planet more productive

High-quality MIG and TIG wires, electrodes and gouging rods

Mild Steel MIG Wire

ProStar Premium Welding Wire C13 – C15

Tubular Welding Wire

ProStar Premium Tubular Welding Wire C16 – C21

ProStar Premium Metal Cored Wire C22 – C23

Mild Steel Electrodes

ProStar Premium Mild Steel Electrodes C24 – C27

Stainless Steel Wire, TIG Rod & Electrodes

ProStar Premium Wire & TIG Rod C28 – C30

ProStar Premium Electrodes C31

Aluminum Wire & TIG Rod

ProStar Premium Aluminum Wire & TIG Rod C32 – C33

Brazing & Soldering Alloys

ProStar Premium Bronze Brazing Alloys C34

ProStar Premium Steel & Bronze TIG Rod C35

Carbon Arc Torches & Carbons

ProStar Premium Carbon Arc Torches C36

ProStar Premium Gouging Carbons C37



ProStar™ Premium Welding Wire



ER70S-6 Automotive
HIGHER COLUMN STRENGTH

ER70S-6 Professional
IMPROVED WETTING
& TRAVEL SPEEDS

ProStar Twist-Free Welding Wire

No cast or helix—delivering predictive performance weld after weld

ProStar “twist-free” welding wire is the right choice for consistent, high-quality welds, throughput, and quality for automated welding processes. With no cast or helix, users can avoid uneven wear on consumables—typical with standard welding wires—which can cause arc wander, over-welding, feed issues, and shut-downs.

Additionally, ProStar welding wire’s distinctively clean and smooth surface, tight chemistry, and our proprietary drawing, coating, and packaging processes further help to ensure predictive performance and consistent, high-quality welds.

Straight and Clean
from Beginning to End

- Higher productivity, lower operational costs
- Consistent, high-quality welds
- Proprietary manufacturing process with tight tolerances provides a premium wire for high weld quality
- Reduced cast & helix provides predictive puddle placement



ER80/90S-D2
**HIGHER STRENGTH
& DUAL CLASSIFIED**

ER70S-3
**LOWER SILICON
APPLICATIONS**



FILLER METALS

**Eliminate Wire Feed
Shutdowns and Protect
Your Bottom Line**

Reliable, Predictive Performance ...Weld after Weld

- Tight wire chemistry & purity
- Wire diameters .030" – .062"
- Spools in various sizes
- Proprietary box packaging
- Layer level wound & random wound spools
- 330, 660, 1200 palletted pacs
- Distinctively clean, smooth wire surface

To remain competitive, your automated welding operation faces a relentless demand to produce fast, high-quality welds. *ProStar*™ welding wires help you meet this demand with predictable weld placement, reduced arc wander and over-welding, improved weld quality, and less cost per foot of weld. Schedule a demo today and see how *ProStar* welding wire can help you improve your productivity.

Twist-Free Welding Wire System

Straight & Clean from Beginning to End

ProStar welding wire is the right choice for weld productivity and quality—formulated for both manual and robotic welding.

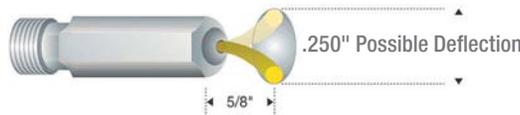
WHAT DOES “TWIST-FREE” MEAN IN A WELDING WIRE?

- “Twist-free” means the drawing and packaging process results in a product with very little cast or helix – wire comes out of its packaging much straighter compared to standard wires.
- Wire and arc placement are predictable—it goes where you want and doesn’t flip back and forth—helping to reduce over-welding, waste, and cost/inch.
- Straighter wire creates less wear points inside a conduit, with reduced possible binding areas and less drag for more consistent feeding.
- Straighter wire creates uniform contact tip wear, which means that properly sized tips can be used and consumable costs are reduced.
- Straighter wire provides feed consistency from pack to pack.
- All of these factors contribute to greater productivity, less downtime, and reduced overall welding costs.

TORCH TIP WEAR COMPARISON | PERFORMANCE COMPARISON



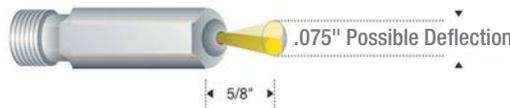
Irregular tip wear is possible with standard wire



Standard wires with twist, helix & 25" (600 mm) cast



Uniform tip wear with *ProStar* twist-free welding wire



ProStar twist-free welding wire: no twist, helix, or cast

Possible performance variance between standard welding wire & *ProStar* twist-free welding wire.

FEATURES	BENEFITS
No cast or helix	Minimizes arc wander, weld cost-per-inch & provides uniform tip wear
Single, high-quality mill source	Provides superior consistency of tight wire chemistry & purity while improving overall weld quality & over-cast
High-tech, proprietary drawing processes	Maintains consistent wire diameter within defined tolerances
Distinctly clean, consistent & smooth wire surfaces for a premium surface finish	Decreases downtime from wire feed issues
Exclusive, proprietary stackable wire package containers with lifting access on four sides	Reduces impact on floor space & provides faster, more efficient transportation
Inner packaging	Cuts down on the effects of moisture

Clean Materials, Stringent Controls

ProStar[™] twist-free welding wire starts as pickled green rod coils produced under ISO-certified control to some of the tightest batch-to-batch tolerances in the industry.

Our proprietary drawing and coppersing processes result in fewer scratches with less flaking or peeling to produce an extremely clean and smooth wire surface.

ProStar wire is packaged using our proprietary, twist-free winding machines. Innovative bulk packaging

design helps to ensure, maintain, and deliver twist-free performance, weld after weld.

The result is a wire product featuring reliable feeding and predictive welding performance that is consistent from pack to pack. This means less downtime due to clogged liners, unevenly worn consumables, and feed issues; less over-welding due to predictable placement of the weld puddle; and reduced overall weld cost-per-foot.



PROSTAR TWIST-FREE WIRE GRADES

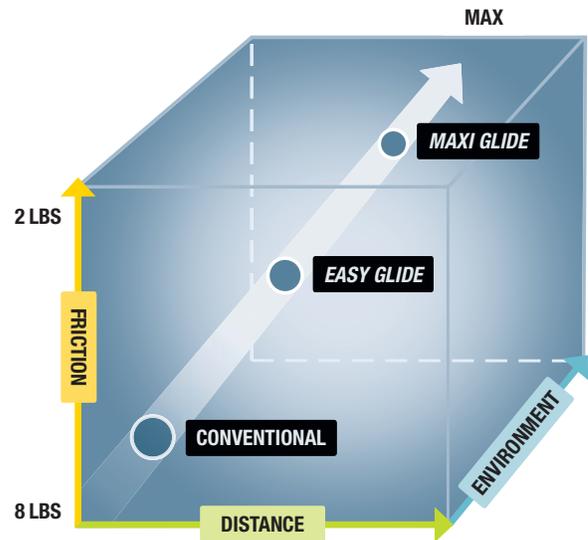
DRUM SIZE	ER70S-3	ER70S-6 Automotive	ER70S-6 Professional	ER80SD-2/90SD-2
	Available Wire Diameter (in)			
330 lb (150 kg)	.035 .040	×	.035 .040 .045 .052	0.35 0.52
660 lb (299 kg)	.035 .045 .052	Available early 2019 .035 .045 .052	.030 .035 .040 .045 .052	.045
1,200 lb (544 kg)	.035 .045 .052	.035 .045 .052	.030 .035 .040 .045 .052 .062	.045 .052 .062

Praxair's Wire Feed Systems

Advance Your Wire's Delivery

Praxair's feed systems for ferrous & non-ferrous materials, including tubular wires

Praxair's *Easy Glide™* reduced-friction wire conduit saves you time and money.



More consistent feed and weld appearance. Less chance for quality issues.

- Conduit design provides twist-free, low-drag 24/7 wire delivery.
- Automatic switch-over device aids in continuous production and around-the-clock wire supply.
- Improves efficiency & profitability.

FITS YOUR OPERATION

- Place your welding wire in any convenient place without impacting feedability and welding performance.
- Frees up floor space near your robotic welder for improved ergonomics.

OTHER DELIVERY OPTIONS

- Aside from Praxair's *EasyGlide™* system, we can provide traditional conduit options to better aid in your operation's wire delivery.

Select Conduit for the Application	Conventional	<i>Easy Glide™</i>	<i>Maxi Glide™</i>
Distance	Short (10 – 20')	Moderate (10 – 100')	Long (10 – 150')
Environment	Fabrication & manufacturing	<ul style="list-style-type: none"> • PA6 covering for moderate to severe environment • Can handle moderate robotic movement • Ideal for fume, dirt & dust 	<ul style="list-style-type: none"> • PA12—much more flexible or aramid/rubberized cover • Can handle excessive/violent robot movement • Grease, oil dust
Reduced Friction	2 – 15#	≤ 2#	< 2#
Application	<ul style="list-style-type: none"> • Limited bends • Large curves • Grooves easily 	<ul style="list-style-type: none"> • 18" bends • Flexible installations • Long life 	<ul style="list-style-type: none"> • 12" bends • Ideal for violent, robotic movement • Long distances

Trust Praxair for the equipment you need with the service and support you deserve.

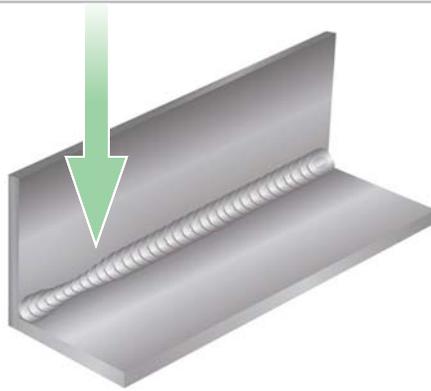
4 Reasons why you should equip your automated welding system with *ProStar*™ conduit.

1 REDUCE BURN-BACKS



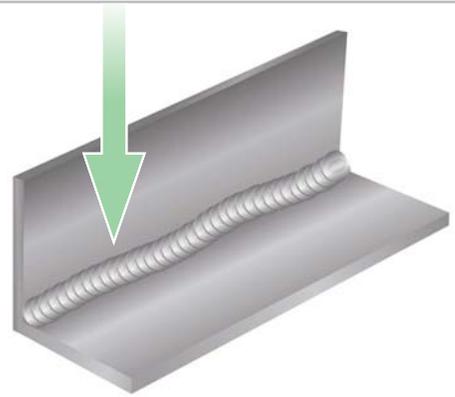
ProStar conduits reduce pull tension issues that are associated with weld wire burn-backs at the contact tip.

2 REDUCE WELD NECKING



ProStar conduits minimize uneven pull tension between the resting state and slack consumption, which is the cause of weld necking just after the weld starts.

3 REDUCE OVER-WELDING



ProStar conduits reduce pull tension to help improve your weld accuracy and precision, further decreasing the need to over-weld.

4 FACILITATE WIRE FARMS



For high productivity weld cells and multiple shifts per day, a wire farm that incorporates *ProStar* wire and Praxair's 24/7 feed system can eliminate wire changeouts and downtime.

ProStar™ “Twist-Free”
 Welding Wire



Praxair's Exclusive Wire
 Feed Solutions



High production welding
 systems to improve your
 efficiency & profitability

Praxair's ProStar™ 24/7 System

Eliminate Cell Downtime
...with continuous delivery of
welding wire to the robotic cell

**ELIMINATE DOWNTIME
CAUSED BY MANUAL WIRE
CHANGEOUTS**

Praxair's 24/7 wire feed system helps improve and protect the productivity of your robotic MIG welding cells. Each "wire farm" consists of two 1,200 lb drums of ProStar wire, the 24/7 system swing arm and stand, RW 24/7 butt welder, and 24/7 die.



24/7 System Components

Praxair's 24/7 feed system is designed to serve a robotic cell sequentially from two wire drums—enabling continuous delivery of welding wire and avoiding downtime.



Complete Welder Shown.
Part No. PRS1001.000

24/7 BUTT WELDER

Joins mild steel wires of various diameters. Set the welding current to Position One for .030 to .062 diameter wires. Select Position Two to weld 5/64 to 5/32 diameter wire.



24/7 DIE SET

With shaving plates available for many wire diameters, the 24/7 die set ensures a consistent diameter across the welded seams when drums are joined together by removing the resultant flash and any burrs from the welding process.



Swing Arm (shown)
SEZPDI101CT247BASE
Base (not shown)
SEZPDI101CT2477SWINGARM

24/7 SWING ARM

Prior to the first drum being spent, its wire end is welded to wire start in the full drum. As the wire source transitions from drum to drum, the swing arm simultaneously rotates to supply wire from the full drum.

Burr Shaver (GMAW)	Dia 0.035"	Dia 0.040"	Dia 0.045"	Dia 3/64"	Dia 0.052"	Dia 0.062"
PRS1010.100	PRS1010.100-035	PRS1010.100-040	PRS1010.100-045	PRS1010.100-047	PRS1010.100-052	PRS1010.100-062

Praxair's SmartBooster™ Feeder

Portable booster shown.



Smart Productivity

Push your welding wire through *MaxiGlide™* runs up to 50 meters long with multiple curves.

Praxair's Welding Wire Turbocharger

The *SmartBooster* feeder is Praxair's powerful, standalone auxiliary feeder system available in a turnkey, fully integrated package or portable system.

- Available in integrated or portable systems
- Brushless motor for precise torque control
- Cold wire motor control function
- Includes robot arc on-time monitoring
- "Arc-Voltage" motor control function
- CE certified

DOME & FEED CONDUIT CHOICES FOR A PRODUCTIVE BULK ALUMINUM WIRE SET-UP

	STEP 1 Dome	STEP 2 Conduit Attachment	STEP 3 Dome Side Connection	STEP 4 Liner	STEP 5 Wire Feed Connection
1	Light-duty hard plastic	Quick disconnect WWDP	Self-thread A-16F-3 or compression A-10C-S with A-10CFE	Polymer up to 15 feet EC-4-R	Wire feed inlet connections are available for all major wire feed manufacturer brands & models.
2	Heavy-duty ABS grey SID110/380ALDOME	Detangler tube AWR1201.950	<i>MaxiGlide</i> quick connector adaptor to <i>EasyGlide™</i> AWR1201.100-701	<i>EasyGlide</i> up to 30 feet SIDEASYGLIDE	
3	Heavy-duty ABS grey SID110/380ALDOME	Detangler tube AWR1201.950	<i>MaxiGlide</i> connectors included with liner	<i>MaxiGlide</i> up to 80 feet AWR601.350-XX (Aramid) AWR601.450-XX (PA12)	Contact your Praxair representative for the correct connection kit & part number.
4	Heavy-duty acrylic clear GPLWPT2	Detangler tube AWR1201.950	<i>MaxiGlide</i> quick connector adaptor to <i>EasyGlide</i> AWR1201.100-701	<i>EasyGlide</i> up to 30 feet SIDEASYGLIDE	
5	Heavy-duty acrylic clear GPLWPT2	Detangler tube AWR1201.950	<i>MaxiGlide</i> connectors included with liner	<i>MaxiGlide</i> up to 80 feet AWR601.350-XX (Aramid) AWR601.450-XX (PA12)	

Available Booster Packages

Integrated Wire Booster System



See-through dome makes setup easy.



SmartBooster™ feeder is ideal for setups in which MaxiGlide™ conduit is mounted inside the cable tracks. When deployed in a “wire farm,” bulk pacs are placed in a safe, forklift accessible area to allow inspection at all times.

FILLER METALS



- Digital touch screen controls for more accurate adjustments & parameter settings
- Peek™-plastic pushing roll for use with aluminum welding wires
- Lightweight see-through dome facilitates fast, easy setup
- 24V transformer

Portable Wire Booster System



Premium Aluminum Wire

Reliably Feed Aluminum Wire More than 80 Feet
Praxair's *ProStar*™ premium aluminum welding wire can help you reduce downtime, minimize overwelding, and protect weld quality.



REDUCE ARC WANDER & OVERWELDING

Standard welding wire's cast and helix can lead to uneven wear on gun consumables, which causes excessive arc wander and affects weld quality.

SAY GOODBYE TO WIRE TWIST

Praxair's *ProStar* premium aluminum welding wire is twist-free—delivering predictive performance and lower cost per inch—weld after weld.

REDUCE WIRE FEED ISSUES

Standard welding wire's poor surface quality and cleanliness can quickly clog liners and pathways, causing feedability issues and downtime.

PROPRIETARY PACKAGE DESIGN

Praxair's *ProStar* premium aluminum welding wire in bulk packaging is distinctively clean and smooth for reliable feedability and consistent weld quality.

PROSTAR™ ALUMINUM WIRE DRUMS

Wire Dia	Drum Size	Part No.
ProStar 4043		
3/64"	110 lbs (50 kg)	PRSS5AW12J0502
	380 lbs (172.2 kg)	PRSS5AW12Q3000
	880 lbs (399.1 kg)	PRSS5AW1201200
1/16"	110 lbs (50 kg)	PRSS5AW16J0502
ProStar 5356		
3/64"	110 lbs (50 kg)	PRSM5AW12J0502
	380 lbs (172.2 kg)	PRSM5AW12Q3000
	880 lbs (399.1 kg)	PRSM5AW1201200
1/16"	380 lbs (172.2 kg)	PRSM5AW16Q3000
	880 lbs (399.1 kg)	PRSM5AW1601200

FEATURES

- No cast or helix
- Distinctively clean, consistent & smooth wire surface for a premium finish

BENEFITS

- Reduced arc wander and lower weld cost/inch with increased uniform tip wear
- Decreased downtime with fewer wire feed issues

ProStar™ 70S-6 MIG Wire

Wire Dia	Package	Part No.
0.023"	2 lb (0.9 kg) spool	PRSS6RN06B001
0.023"	12 lb (5.4 kg) spool	PRSS6RN06P006
0.023"	33 lb (15 kg) spool	PRSS6RN06P015
0.030"	2 lb (0.9 kg) spool	PRSS6RN08B001
0.030"	12 lb (5.4 kg) spool	PRSS6RN08P006
0.030"	33 lb (15 kg) spool	PRSS6RN08P015
0.030"	44 lb (20 kg) spool	PRSS6RN08P020
0.030"	330 lb (150 kg) PAC	PRSS6RW08Q150
0.030"	660 lb (299 kg) PAC	PRSS6RW08Q300
0.030"	1200 lb (544 kg) PAC	PRSS6RW08Q550
0.035"	2 lb (0.9 kg) spool	PRSS6RN09B001
0.035"	12 lb (5.4 kg) spool	PRSS6RN09P006
0.035"	33 lb (15 kg) spool	PRSS6RN09P015
0.035"	44 lb (20 kg) spool	PRSS6RN09P020
0.035"	60 lb (27 kg) spool	PRSS6RN09P027
0.035"	330 lb (150 kg) PAC	PRSS6RW09Q150
0.035"	660 lb (299 kg) PAC	PRSS6RW09Q300
0.035"	990 lb (449 kg) PAC	PRSS6RW09Q450
0.035"	1200 lb (544 kg) PAC	PRSS6RW09Q550
0.040"	44 lb (20 kg) spool	PRSS6RN10P020
0.040"	330 lb (150 kg) PAC	PRSS6RW10Q150
0.040"	660 lb (299 kg) PAC	PRSS6RW10Q300
0.040"	990 lb (449 kg) PAC	PRSS6RW10Q450
0.040"	1200 lb (544 kg) PAC	PRSS6RW10Q550
0.045"	2 lb (0.9 kg) spool	PRSS6RN11B001
0.045"	12 lb (5.4 kg) spool	PRSS6RN11P006
0.045"	33 lb (15 kg) spool	PRSS6RN11P015
0.045"	44 lb (20 kg) spool	PRSS6RN11P020
0.045"	60 lb (27 kg) spool	PRSS6RN11P027
0.045"	330 lb (150 kg) PAC	PRSS6RW11Q150
0.045"	660 lb (299 kg) PAC	PRSS6RW11Q300
0.045"	990 lb (449 kg) PAC	PRSS6RW11Q450
0.045"	1200 lb (544 kg) PAC	PRSS6RW11Q550
0.052"	44 lb (20 kg) spool	PRSS6RN13P020
0.052"	60 lb (27 kg) spool	PRSS6RN13P027
0.052"	330 lb (150 kg) PAC	PRSS6RW13Q150
0.052"	660 lb (299 kg) PAC	PRSS6RW13Q300
0.052"	990 lb (449 kg) PAC	PRSS6RW13Q450
0.052"	1200 lb (544 kg) PAC	PRSS6RW13Q550
0.062"	44 lb (20 kg) spool	PRSS6RN16P020
0.062"	990 lb (449 kg) PAC	PRSS6RW16Q450
0.062"	1200 lb (544 kg) PAC	PRSS6RW16Q550



ProStar ER70S-6 wire is a mild steel welding wire with higher levels of deoxidizers (Mn and Si) compared to other mild steel welding wires. This wire is suitable for welding on mild steels with moderate amounts of scale or rust.

SPECIFICATION

AWS 5.18-93

Class ER70S-6

ASME SFA-5.18

Minimum Mechanical Properties with CO₂*

Tensile Strength	85,000 psi (590 MPa)
Yield Strength	68,000 psi (470 MPa)
Elongation in 2"	29%
Charpy V-Notch	60 ft/lb at -20 °F (81 Joules at -29 °C)

Typical Wire Chemistry (%)

C	0.06 – 0.12	Mo*	0.15 max
Mn	1.45 – 1.65	Ni*	0.15 max
Si	0.80 – 1.00	Ti+Zr*	0.15 max
P	0.025 max	Al*	0.020 max
S	0.025 max	Fe	Bal
Cu	0.30 max		

*Total of Cr + Ni + Mo + V shall not exceed 0.50%.

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

ProStar™ Premium Quality Welding Wire → *continued*

ProStar ER70S-3 Wire

SPECIFICATION

AWS 5.18-93
Class ER70S-3
ASME SFA-5.18

Minimum Mechanical Properties with CO₂*

Tensile Strength	76,000 psi (520 MPa)
Yield Strength	63,000 psi (435 MPa)
Elongation in 2"	29%
Charpy V-Notch	50 ft/lb at -20 °F (67 Joules at -29 °C)

Typical Wire Chemistry (%)

C	0.06 – 0.12	Mo*	0.15 max
Mn	1.00 – 1.39	Ni*	0.15 max
Si	0.50 – 0.70	Ti+Zr*	0.15 max
P	0.025 max	Al*	0.020 max
S	0.025 max	Fe	Bal
Cu	0.30 max		

Wire Dia	Package	Part No.
0.030"	44 lb (20 kg) spool	PRSS3RN08P020
0.035"	33 lb (15 kg) spool	PRSS3RN09P015
0.035"	44 lb (20 kg) spool	PRSS3RN09P020
0.035"	60 lb (27 kg) spool	PRSS3RN09P027
0.035"	330 lb (150 kg) PAC	PRSS3RW09Q150
0.035"	660 lb (299 kg) PAC	PRSS3RW09Q300
0.035"	990 lb (449 kg) PAC	PRSS3RW09Q450
0.035"	1200 lb (544 kg) PAC	PRSS3RW09Q550
0.040"	44 lb (20 kg) spool	PRSS3RN10P020
0.040"	330 lb (150 kg) PAC	PRSS3RW10Q150
0.045"	44 lb (20 kg) spool	PRSS3RN11P020
0.045"	60 lb (27 kg) spool	PRSS3RN11P027
0.045"	330 lb (150 kg) PAC	PRSS3RW11Q150
0.045"	660 lb (299 kg) PAC	PRSS3RW11Q300
0.045"	990 lb (449 kg) PAC	PRSS3RW11Q450
0.045"	1200 lb (544 kg) PAC	PRSS3RW11Q550
0.052"	660 lb (299 kg) PAC	PRSS3RW13Q300
0.052"	990 lb (449 kg) PAC	PRSS3RW13Q450
0.052"	1200 lb (544 kg) PAC	PRSS3RW13Q550
0.062"	990 lb (449 kg) PAC	PRSS3RW16Q450

*Total of Cr + Ni + Mo + V shall not exceed 0.50%.

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

ProStar ER80S-D2 Wire

SPECIFICATION

AWS A5.28-93
Class ER80S-D2
ASME SFA-5.28

Minimum Mechanical Properties with CO₂*

Tensile Strength	100,000 psi (690 MPa)
Yield Strength	85,000 psi (590 MPa)
Elongation in 2"	29%
Charpy V-Notch	100 ft/lb at -20 °F (136 Joules at -29 °C)

Typical Wire Chemistry (%)

C	0.06 – 0.12	Mo	0.40 – 0.60
Mn	1.70 – 1.95	Ni	0.15 max
Si	0.50 – 0.80	Ti+Zr	0.15 max
P	0.025 max	Al	0.020 max
S	0.025 max	Fe	Bal
Cu	0.30 max		

Wire Dia	Package	Part No.
0.035"	12 lb (5.4 kg) spool	PRSD2RN09P006
0.035"	330 lb (150 kg) PAC	PRSD2RW09Q150
0.045"	660 lb (299 kg) PAC	PRSD2RW11Q300
0.045"	990 lb (449 kg) PAC	PRSD2RW11Q450
0.045"	1200 lb (544 kg) PAC	PRSD2RW11Q550
0.052"	330 lb (150 kg) PAC	PRSD2RW13Q150
0.052"	1200 lb (544 kg) PAC	PRSD2RW13Q550
0.062"	1200 lb (544 kg) PAC	PRSD2RW16Q550

ProStar ER70S-3 wire is typically used on clean, oil-free and rust-free base material. With a reduced silicon content, it helps avoid silicon islands that can form on top of the weld, giving it a glassy look. Paint applied over a silicon island may later flake off. In addition, with multiple pass welding, a silicon island may be detected on an x-ray as a slag inclusion. Such defects may require costly rework.

ProStar ER80S-D2 wire is a low-alloy steel wire with 2% manganese and 0.5% molybdenum as alloying elements. Weld deposits of this wire have moderately high strength with adequate low-temperature toughness. A pre-heat and interpass temperature of no less than 300 °F (149 °C) is required during welding.

Layer Level Wound

ProStar™ Select MIG Welding Wire

CHARACTERISTICS

- Features level layer winding on the spool
- Helps ensure smooth wire feeding characteristics



ProStar MIG welding wire maximizes arc stability and is precision-wound for smooth wire feeding characteristics.

FILLER METALS

Class	Wire Dia	Package	Part No.
ER70S-3	0.035"	44 lb (20 kg) spool	PRSS3RS09P020
ER70S-3	0.045"	44 lb (20 kg) spool	PRSS3RS11P020
ER70S-6	0.030"	33 lb (15 kg) spool	PRSS6RS08P015
ER70S-6	0.035"	33 lb (15 kg) spool	PRSS6RS09P015
ER70S-6	0.035"	44 lb (20 kg) spool	PRSS6RS09P020
ER70S-6	0.045"	44 lb (20 kg) spool	PRSS6RS11P020
ER70S-6	0.052"	44 lb (20 kg) spool	PRSS6RS13P020
ER80S-D2	0.035"	44 lb (20 kg) spool	PRSD2RS09P020
ER80S-D2	0.045"	44 lb (20 kg) spool	PRSD2RS11P020
ER80S-D2	0.045"	60 lb (27 kg) spool	PRSD2RS11P027

ProStar™ Flux-Cored Arc Welding Wire Solutions



ProStar Premium Quality Tubular Wire

New manufacturing technologies deliver higher consistency, quality and performance.

ProStar flux-cored and metal-cored wire represent the latest in tubular wire design and provide consistency, quality, and performance. New manufacturing technologies provide enhanced feedability, weldability and overall performance. Rigorous inspection systems ensure that ProStar tubular wire exhibits the same high-quality standards on a continuous basis.

ProStar metal-cored wire sets a higher standard in performance:

- Higher deposition efficiency
- Higher productivity
- Lower fume generation
- Improved sidewall fusion
- Improved metal transfer
- Better bead profile

ProStar Premium Quality Metal-Cored Wire

ProStar metal-cored wires are designed to provide higher deposition rates and travel speeds for high-speed production environments. When combined with Praxair welding gases such as Stargon™ VS welding blend, they provide high-quality welds with minimal silica islands.

	AWS Class	Performance Characteristics
ProStar StarCore 6 Wire → Visit Page C16	E70C-6M H4	For general-purpose applications and welding over rust and mill scale
ProStar StarCore 6LF Wire → Visit Page C16	E70C-6M H14	Lower fume generation than other metal-cored wires
ProStar StarCore 6LS Wire → Visit Page C17	E70C-6M H4	Fewer silicon islands left on weld and better wetting

Tubular Wire Selection Guidelines

ADVANTAGES OF METAL-CORED VS. FLUX-CORED

- 1) Less spatter with no slag clean-up
- 2) Higher duty cycles
- 3) Higher deposition efficiencies

ADVANTAGES OF METAL-CORED VS. SOLID ELECTRODES

- 1) Increased productivity
- 2) Less spatter and rework
- 3) Improved sidewall fusion and penetration
- 4) Better penetration

ProStar™ Flux-Cored Wire

ProStar Premium Quality Flux-Cored Wire

Flux-cored arc welding offers many advantages over solid wire and covered electrodes. Higher deposition rates, better penetration, improved sidewall fusion, and an enhanced ability to weld over mill scale or rust, with less operator skill, are important advantages of this wire.

ProStar Gas-Shielded Flux-Cored Wire

ProStar tubular flux-cored wire is used in applications where the base metal thickness is greater than 1/4" (6.3 mm) and where the parts to be welded have poor fit-up or contain some amount of dirt, oil, rust or mill scale.



ProStar tubular welding wire provides improved feedability and weldability

	AWS Class	Performance Characteristics
ProStar FC-70 Wire → Visit Page C12	E70T-1C/M E70T-9C/M	Smooth arc, flat bead, can be used with Ar/CO ₂ or 100% CO ₂
ProStar FC-70LF Wire → Visit Page C12	E70T-1C E70T-9C	Welds through rust and mill scale, with easy slag removal
ProStar FC-71LF Wire → Visit Page C13	E71T-1C/M E71T-9C/M	Smooth arc, low spatter, good all-position characteristics, low fume
ProStar FC-71 Supreme Wire → Visit Page C14	E71T-1M E71T-12MJ H8	All-position capability with superior mechanicals on Ar/CO ₂ shielding

ProStar Self-Shielded Flux-Cored Wire

Designed for work environments subject to crosswinds (i.e. outdoor construction), or for areas where it is difficult to provide cylinders of shielding gas. ProStar self-shielded cored wire is formulated to produce its own shielding environment as a result of the decomposition of components present in the core of the wire and neutralization of the nitrogen gas.

	AWS Class	Performance Characteristics
ProStar FC-SS-11 Wire → Visit Page C15	E71T-11	All-position, for carbon steel weldments

ADVANTAGES OF FLUX-CORED VS. SOLID ELECTRODES

- 1) Higher deposition rates in all position welds
- 2) Better penetration
- 3) Elimination of cold lap or lack of fusion
- 4) Virtually free from subsurface porosity when welded on scaled material

ADVANTAGES OF FLUX-CORED VS. COVERED ELECTRODES

- 1) Higher deposition rates
- 2) Higher duty cycles
- 3) Better penetration

ProStar™ Shielded Flux-Cored Wire

ProStar FC-70 Wire

SPECIFICATION

E70T-1/1M, E70T-9/9M per AWS A5.20,
ASME SFA 5.20, CWB E492T-9 H8, E492T-9M H8

Wire dia	Package	Part No.
3/32"	60 lb (27 kg) coil	PRSS272029-702

CHARACTERISTICS

- Good performance over the entire range of amperage
- More deoxidation than the usual E70T-1 for improved performance on rusted and scaled plate
- Excellent weld bead configuration on horizontal fillets
- An outstanding general purpose E70T-1
- Caution should be exercised on heavy, multiple-pass weldments

ProStar FC-70 wire offers good arc stability over the complete recommended welding range. Spatter losses are very low, the slag removes easily and cleanly, and bead appearance is excellent. High deoxidation enables *ProStar FC-70* wire to weld over mill scale, rust and other contaminants better than most T-1 wires. However, this level of deoxidation will also cause increased hardening as multiple layers are welded, and caution should be exercised in welding thick or highly-restrained joints. *ProStar FC-70* wire is used for single- and multiple-pass welding in the flat and horizontal positions using 100% CO₂ or 75% Ar/25% CO₂ shielding gas.

Shielding Gas	Welding Positions
100% CO ₂ , 75% Ar/25% CO ₂ , 35 – 50 cfh	Flat and horizontal

Typical Mechanical Properties*

Tensile Strength	87,000 psi (662 MPa)
Yield Strength	81,000 psi (579 MPa)
Elongation	24%
CVN at -20 °F (-29 °C)	36 ft/lb (49 Joules)

* Properties determined with 100% CO₂ shielding gas

Typical Undiluted Weld Metal Chemistry

Carbon (C) 0.07	Phosphorus (P) 0.010
Manganese (Mn) 1.37	Sulphur (S) 0.011
Silicon (Si) 0.61	

ProStar FC-70LF Wire

SPECIFICATION

E70T-1 H8, E70T-9 H8 per AWS A5.20,
ASME SFA 5.20, CWB E492T-9 H8

Wire Dia	Package	Part No.
1/16"	60 lb (27 kg) coil	PRSS247019-702

CHARACTERISTICS

- Low Fumes
- Flat bead profile with multi-pass fillet welds
- Easy slag removal
- Resists weld cracking on heavy plate and restrained joints
- Very flexible amperage/voltage range

ProStar FC-70LF wire is designed for general-purpose welding with minimized fume generation rates utilizing 100% CO₂ gas. *ProStar FC-70LF* wire is specially formulated with added deoxidizers to allow welding through rust, mill scale and light oil with minimal need for pre-cleaning. Primarily designed for single- or multi-pass welding in the flat and horizontal positions, *ProStar FC-70LF* wire welds mild steel and low alloy steel with very light spatter and particulate fume generation.

Shielding Gas	Welding Positions
100% CO ₂ , 35 – 50 C.F.H.	Flat and horizontal

Typical Mechanical Properties*

Tensile Strength	86,900 psi (599 MPa)
Yield Strength	78,000 psi (538 MPa)
Elongation in 2"	24%
CVN at 0 °F (-18 °C)	61 ft/lb (82 Joules)
CVN at -20 °F (-29 °C)	53 ft/lb (72 Joules)

Typical Undiluted Weld Metal Chemistry

Carbon (C) 0.24
Manganese (Mn) 1.34
Silicon (Si) 0.49
Phosphorus (P) 0.013
Sulphur (S) 0.010

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

ProStar™ Gas-Shielded Wire

ProStar FC-71LF Wire

SPECIFICATION

E71T-1, E71T-1M, E71T-9, E71T-9M per AWS A5.20,
ASME SFA 5.20, E491T-9-H8, E491T-9M-H8 per
CSA W48-01

Wire Dia	Package	Part No.
0.045"	33 lb (15 kg) spool	PRSS247112-729
	44 lb (20 kg) spool	PRSS247112-744
	60 lb (27 kg) coil	PRSS247112-702
0.052"	33 lb (15 kg) spool	PRSS247115-729
1/16"	33 lb (15 kg) spool	PRSS247119-729
	60 lb (27 kg) coil	PRSS247119-702

CHARACTERISTICS

- Low fumes and low spatter
- Easy slag removal
- Very good out-of-position capabilities

ProStar FC-71LF wire is a flux-cored wire designed for general purpose fabrication, welding in all positions. It can be used with either 100% CO₂ or 75% Ar/25% CO₂ shielding gas, offering a spray-type transfer of weld metal. **ProStar FC-71LF** wire provides good impact strength at low temperatures. It also has low fume and spatter levels and the slag is easy to remove.

Shielding Gas	Welding Positions
100% CO ₂ or 75% Ar/25% CO ₂	All positions

Typical Mechanical Properties*

Tensile Strength	87,700 psi (605 MPa)
Yield Strength	79,100 psi (546 MPa)
Elongation in 2"	28%
CVN at 0 °F (-18 °C)	70 ft/lb (95 Joules)
CVN at -20 °F (-29 °C)	51 ft/lb (69 Joules)

Typical Undiluted Weld Metal Chemistry

Carbon (C) 0.021
Manganese (Mn) 1.30
Silicon (Si) 0.69
Phosphorus (P) 0.015
Sulphur (S) 0.011



FILLER METALS

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

ProStar™ Shielded Flux-Cored Wire → *continued*

ProStar FC-71 Supreme Wire

SPECIFICATION

E71T-1M H8, E71T-12MJ H8 per AWS A5.20, ASME SFA 5.20, CWB E491T-9M-H8



ProStar FC-71 Supreme wire produces virtually no spatter and delivers a flat bead profile in all positions

Wire Dia	Package	Part No.
0.035"	33 lb (15 kg) spool	PRSS283208-729
0.045"	33 lb (15 kg) spool	PRSS283212-729
	44 lb (20 kg) spool	PRSS283212-744
0.052"	33 lb (15 kg) spool	PRSS283215-729
1/16"	33 lb (15 kg) spool	PRSS283219-729
	44 lb (20 kg) spool	PRSS283219-744
	60 lb (27 kg) coil	PRSS283219-702

CHARACTERISTICS

- Low fume levels with virtually no spatter
- Good CVN toughness at sub-zero temperatures
- Not to be used with 100% CO₂

ProStar FC-71 Supreme wire combines superior welding performance with outstanding mechanical properties. It has exceptional operator appeal with superb physical properties, an arc that is soft and stable, and low fume levels with virtually no spatter. Even in the vertical “up” position, welds produced with *ProStar FC-71 Supreme* wire will have a flat bead profile. This wire is designed for single- and multiple-pass welding in all positions, using a shielding gas of 75 – 85% Ar/15 – 25% CO₂. Typical applications include shipbuilding, offshore structures and general fabrication where high-impact properties, ease of operation, and high productivity are required.

Shielding Gas	Welding Positions
75 – 85% Ar/15 – 25% CO ₂ , 35 – 50 cfh	All positions

Typical Mechanical Properties*	
Tensile Strength	80,000 psi (522 MPa)
Yield Strength	71,000 psi (490 MPa)
Elongation	29%
CVN at 0 °F (-18 °C)	99 ft/lb (134 Joules)
CVN at -40 °F (-40 °C)	55 ft/lb (75 Joules)

Typical Undiluted Weld Metal Chemistry	
Carbon (C) 0.06	Phosphorus (P) 0.011
Manganese (Mn) 1.04	Sulphur (S) 0.014
Silicon (Si) 0.26	Nickel (Ni) 0.38

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

ProStar™ Self-Shielded Wire

ProStar FC-SS-11 Wire

SPECIFICATION

E71T-11 per AWS A5.20, ASME SFA 5.20

Wire Dia	Package	Part No.
0.30"	2 lb (0.9 kg) spool	PRSS222106-719
0.30"	10 lb (4.5 kg) spool	PRSS222106-722
0.035"	2 lb (0.9 kg) spool	PRSS222108-719
0.035"	10 lb (4.5 kg) spool	PRSS222108-722
0.045"	10 lb (4.5 kg) spool	PRSS222112-722
	33 lb (15 kg) spool	PRSS222112-729

CHARACTERISTICS

- Limited multi-pass, all-position wire
- Can be used on up to 3/4" thick steel
- Can be used with CC power sources, provided the power source can produce a low voltage range between 14 – 19 volts and uses voltage sensing wire feeders
- Uses DCEN polarity
- Smooth arc and low spatter emission

No shielding gas needed

ProStar FC-SS-11 wire is versatile with enhanced operator appeal because of its smooth arc, low spatter emission, and overall ease of handling. It's a good choice for hard-to-reach locations, or where provisioning of gas cylinders is not practical. It's also effective in windy or adverse conditions when mechanical properties are of less concern. FC-SS-11 has little tendency to burn-through, and is well suited for butt, fillet, and lap joints on steel thicknesses from 16 ga to 3/8". Not recommended for welding steel thicknesses greater than 3/4". For welding 3/8" – 3/4" steels, a preheat temperature of 325 °F is advisable. Recommended for single- and limited multi-pass welding in all positions using no shielding gas.

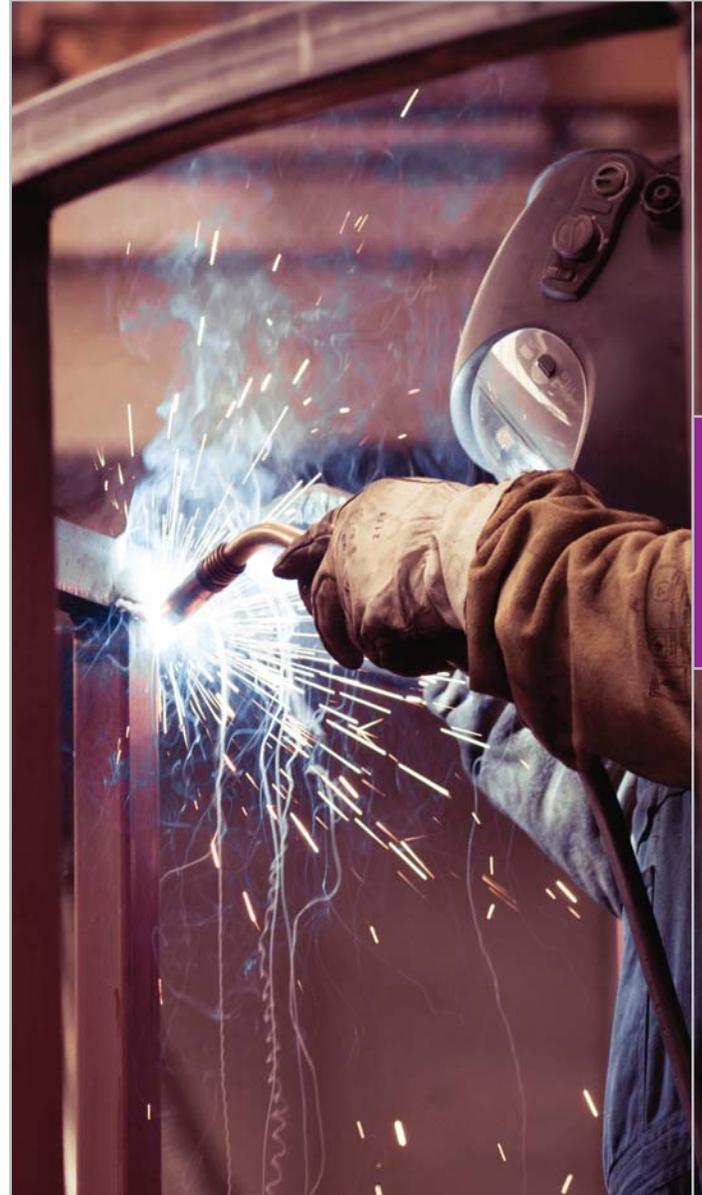
Shielding Gas	Welding Positions
None	All positions

Typical Mechanical Properties*

Tensile Strength	91,000 psi (628 MPa)
Yield Strength	64,000 psi (442 MPa)
Elongation	21%

Typical Undiluted Weld Metal Chemistry

Carbon (C) 0.30	Phosphorus (P) 0.009
Manganese (Mn) 0.49	Sulphur (S) 0.003
Silicon (Si) 0.15	Aluminum (Al) 1.18



FILLER METALS

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

ProStar™ StarCore™ 6 Metal-Cored Wire

StarCore 6 Wire

SPECIFICATION

E70C-6M H4 per AWS A5.18, ASME SFA 5.18
CWB E491C-6M H4

Wire Dia	Package	Part No.
0.045"	33 lb (15 kg) spool	PRSS249412-729
	44 lb (20 kg) spool	PRSS249412-744
	750 lb (340 kg) drum	PRSS249412-713
0.052"	44 lb (20 kg) spool	PRSS249415-744
1/16"	44 lb (20 kg) spool	PRSS249419-744
	60 lb (27 kg) coil	PRSS249419-702
	750 lb (340 kg) drum	PRSS249419-713

CHARACTERISTICS

- Higher deoxidizer level than solid wire, improves performance on mill scale plate
- Better wetting action than solid wire, minimizes cold lap
- Good operator appeal
- Good choice for short-circuit or pulse applications

ProStar StarCore 6 wire has higher manganese and silicon levels than solid S-6 wire, with slightly lower spatter and higher strength. The increased deoxidization level allows for more tolerance of mill scale with fewer root pores. **ProStar StarCore 6** wire is recommended for single- and multi-pass welding in flat and horizontal positions with 75 – 92% Ar/CO₂ and no detrimental effects at the higher argon levels. The wetting action is better than solid wire, minimizing cold lap on heavier sections of steel.

Shielding Gas	Welding Positions
75 – 92% Ar/Bal CO ₂ , 35 – 50 cfm	Flat and horizontal

Typical Mechanical Properties*

Tensile Strength	91,000 psi (628 MPa)
Yield Strength	81,000 psi (559 MPa)
Elongation	27%
CVN at -20 °F (-29 °C)	53 ft/lb (72 Joules)

Typical Undiluted Weld Metal Chemistry

Carbon (C) 0.06	Phosphorus (P) 0.012
Manganese (Mn) 1.64	Sulphur (S) 0.019
Silicon (Si) 0.75	

StarCore 6LF Wire

SPECIFICATION

E70C-6M H4 per AWS A5.18, ASME SFA 5.18
CWB E492C-6M H4

Wire Dia	Package	Part No.
0.045"	44 lb (20 kg) spool	PRSS280812-744

CHARACTERISTICS

- Lowest fume level of all **ProStar** cored products
- Better wetting action than solid wire, minimizes cold lap
- Virtually slag-free welds reduce clean up time

ProStar StarCore 6LF wire is a metal-cored wire with lower fume generation rates than other metal-cored wire. Fume generation rates are comparable to solid wire and offer the higher deposition rates of metal-cored wire. Recommended for single- and multi-pass welding in both the flat and horizontal positions. Recommended shielding gas is a mixture of argon and CO₂, with a minimum of 75% Ar and a maximum of 92% Ar. Arc characteristics improve with richer argon gases while fume levels decrease. **StarCore 6LF** wire has the lowest spatter level of all the **ProStar** metal-cored wires.

Shielding Gas	Welding Positions
75 – 92% Ar/Bal CO ₂ , 35 – 50 cfm	Flat and horizontal

Typical Mechanical Properties*

Tensile Strength	82,000 psi (566 MPa)
Yield Strength	70,000 psi (483 MPa)
Elongation	29%
CVN at -0 °F (-18 °C)	47 ft/lb (64 Joules)

Typical Undiluted Weld Metal Chemistry

Carbon (C) 0.04	Phosphorus (P) 0.008
Manganese (Mn) 1.50	Sulphur (S) 0.013
Silicon (Si) 0.70	

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

ProStar™ Metal-Cored Wire

StarCore™ 6LS Wire

SPECIFICATION

E70C-6M H4 per AWS A5.18, ASME SFA 5.18

Wire Dia	Package	Part No.
0.052"	750 lb (340 kg) drum	PRSS279315-713

CHARACTERISTICS

- Clean weld beads with minimal silicon islands; almost self-peeling
- Weld bead toe lines almost completely free of silicon deposits
- Better wetting action than solid wire
- Better side wall fusion than solid wire
- Ideal for sheet metal

ProStar StarCore 6LS wire is a metal-cored wire with fewer silicon islands than other metal-cored wires; remaining islands are almost self-peeling. Weld bead toe lines and the weld bead face are nearly free of silicon deposits reducing cleanup. Combined with low spatter rates, **StarCore 6LS** wire saves time and money spent cleaning prior to painting, coating or plating. Recommended for single-pass and multi-pass welding in both flat and horizontal positions. Recommended shielding gas is a mixture of argon and CO₂, with a minimum of 75% Ar and a maximum of 92% Ar. Arc characteristics improve with richer argon gases while spatter and fume levels decrease.

Shielding Gas	Welding Positions
75 – 92% Ar/Bal CO ₂ , 35 – 50 cfh	Flat and horizontal

Typical Mechanical Properties*

Tensile Strength	90,200 psi (622 MPa)
Yield Strength	80,000 psi (552 MPa)
Elongation	25%
CVN at -0 °F (-18 °C)	50 ft/lb (68 Joules)
CVN at -20 °F (-29 °C)	42 ft/lb (57 Joules)

Typical Undiluted Weld Metal Chemistry

Carbon (C) 0.05	Phosphorus (P) 0.011
Manganese (Mn) 1.38	Sulphur (S) 0.013
Silicon (Si) 0.65	Nickel (Ni) 0.40



ProStar StarCore 6 metal-cored wire offers less spatter, cleaner welds and reduced fume levels.

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

ProStar™ Premium Quality Stick Electrodes

Mild steel & low hydrogen covered electrodes deliver high-production radiographic welds

ProStar's hydrogen covered electrodes are specified in many welding applications



AWS COVERED ELECTRODE/ROD CLASSIFICATION



AWS Spec	Coating Type	Coating Code	Current	Application
E6010	Cellulose Sodium	0	DCEP ^[a]	Made for welding carbon steels. Primarily used for pipe welding: cross country, in plant, and non-critical, small-diameter piping.
E6011	Cellulose Potassium	1	ALL AC	Good penetration on AC, all positions. Electrode for mild and galvanized steel.
E6013	Titania Potassium	3	DCEN ^[b] AC	Good for poor fit-up. All-position, general purpose AC electrode for mild steel.
E7014	Iron powder Titania	4	ALL	For higher deposition and faster travel speeds. All-position straight polarity and AC electrode for mild steel.
E7018	Iron powder Low hydrogen	8	DCEP ^[a]	Low hydrogen electrode for low and medium carbon steels. All-position (except for vertical down) reverse electrode.
E7018	Iron powder Low hydrogen	8	AC	Low hydrogen electrode for low and medium carbon steels. All-position (except for vertical down) AC electrode.

a. DCEP – Direct Current Electrode Positive b. DCEN – Direct Current Electrode Negative c. AC – Alternating Current

■ Mild steel covered electrodes
■ Low hydrogen covered electrodes

Stick Electrode Selection Guidelines

1. BASE METAL PROPERTIES

Match mechanical properties and composition. Mild steel: select E60xx or E70xx electrodes to match base metal. Low alloy steel: select electrodes that match base metal composition.

2. WELDING POSITION

Match the electrode to the welding position encountered.

3. WELDING CURRENT

Match the available power supply.

ProStar™ Mild Steel Covered Electrodes

ProStar6010 Electrode

APPLICATIONS

- Pipe welding
- Repair welding

The **ProStar 6010** electrode is a cellulosic electrode for vertical-down welding. Specially recommended for root-pass welding on DCEP in vertical-down and vertical-up positions, it produces a powerful arc that deposits smooth root passes with good penetration at high travel speeds.

AWS Spec	Electrode (in)	Diameter (mm)	Range Amperage	Optimum Amperage	Part No.
6010	3/32	2.4	50 – 90	75	PRS6010-332X5
6010	1/8	3.2	80 – 110	120	PRS6010-18X5
6010	5/32	4.0	120 – 160	160	PRS6010-532X5

Typical Mechanical Properties*		As Welded
Yield Strength, psi (MPa)		65 (448)
Tensile Strength, psi (MPa)		75 (517)
Elongation in 2" (51 mm)		26%

ProStar6011 Electrode

APPLICATIONS

- Building structure
- Piping
- Shipbuilding
- Farm and road equipment
- Pressure vessels and tanks

The **ProStar 6011** electrode is an all-position, cellulosic electrode designed for AC. It produces an easily controlled, forceful arc with deep penetration and a high-quality weld metal that will pass specification requirements for radiography. The **ProStar 6011** electrode is used for welding mild steels such as ASTM A-36, A-283, A-284, A-285, A-515, A-516 and ABS hull and boiler steel.

AWS Spec	Electrode (in)	Diameter (mm)	Range Amperage	Optimum Amperage	Part No.
6011	3/32	2.4	45 – 90	75	PRS6011-332X5
6011	1/8	3.2	80 – 130	120	PRS6011-18X5
6011	5/32	4.0	105 – 180	160	PRS6011-532X5

Typical Mechanical Properties*		As Welded
Yield Strength, psi (MPa)		47 (324)
Tensile Strength, psi (MPa)		62 (428)
Elongation in 2" (51 mm)		22%

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

4. THICKNESS AND BASE METAL SHAPE

To avoid weld cracking on thick and heavy material of complicated design, select electrode with maximum ductility. Low hydrogen processes or electrodes are recommended.

5. SERVICE CONDITIONS

Determine the service conditions: low temperature, high temperature, shock loading. Match the base metal composition, ductility and impact resistance. Use low hydrogen process. Check the welding procedure or specifications for electrode type.

Mild Steel Covered Electrodes → *continued*

ProStar™ 6013 Electrode

APPLICATIONS

- Metal fixtures
- Mild steel and sheet metal
- Hobbyist welders
- Maintenance and repair

The **ProStar 6013** electrode is an all-position, versatile electrode with a wide range of applications for light gauge and heavy plate. High heat and speeds can be used without undercut. Slag is easy to clean, and on heavy plates, is often self-cleaning. Low voltage feature permits use on AC power sources that have less than 50 open circuit volts.

AWS Spec	Electrode (in)	Diameter (mm)	Range Amperage	Optimum Amperage	Part No.
6013	3/32	2.4	45 – 90	85	PRS6013-332X5
6013	1/8	3.2	90 – 130	125	PRS6013-18X5
6013	5/32	4.0	140 – 180	140	PRS6013-532X5

Typical Mechanical Properties*

As Welded

Yield Strength, psi (MPa)	64 (441)
Tensile Strength, psi (MPa)	78 (538)
Elongation in 2" (51 mm)	22%

ProStar™ 7014 Electrode

APPLICATIONS

- Construction equipment
- Metal fixtures
- Automotive parts
- Barges and farm machinery

The **ProStar 7014** electrode is an all-position, iron powder coated electrode which permits the use of higher welding currents while improving the deposition rate. The use of an iron powder coating also improves deposition efficiency. High speeds and high heat can be used without undercut occurring. Slag removal is excellent.

AWS Spec	Electrode (in)	Diameter (mm)	Range Amperage	Optimum Amperage	Part No.
7014	3/32	2.4	45 – 90	85	PRS7014-332X5
7014	1/8	3.2	90 – 130	125	PRS7014-18X5
7014	5/32	4.0	140 – 180	140	PRS7014-532X5

Typical Mechanical Properties*

As Welded

Yield Strength, psi (MPa)	64 (441)
Tensile Strength, psi (MPa)	78 (538)
Elongation in 2" (51 mm)	22%

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

Low Hydrogen Covered Electrodes

ProStar™ 7018AC Electrode

APPLICATIONS

- Low/medium/high carbon steels
- Shops, farms and hobbyists
- Maintenance welding
- General fabrication

The **ProStar 7018AC** electrode is specifically designed to produce optimum arc characteristics when used with AC power sources having 75 – 80 open circuit voltage. When compared to the standard **ProStar 7018** electrode operating on AC, the 7018AC provides easier arc starting and restrike, a smoother arc, and lower spatter. It's also easier to operate than most low hydrogen electrodes and usable on a wide range of steels.

AWS Spec	Electrode (in)	Diameter (mm)	Range Amperage	Optimum Amperage	Part No.
7018AC	3/32	2.4	70 – 100	90	PRS7018AC-332X5
7018AC	1/8	3.2	105 – 155	120	PRS7018AC-18X5
7018AC	5/32	4.0	130 – 200	140	PRS7018AC-532X5

Typical Mechanical Properties*	As Welded
Yield Strength, psi (MPa)	67 (462)
Tensile Strength, psi (MPa)	81 (559)
Elongation in 2" (51 mm)	26%

ProStar 7018 Electrode

APPLICATIONS

- Hardenable steels
- Petrochemical
- Power generation
- Pressure piping

The **ProStar 7018** electrode is a moisture-resistant, all-position, low hydrogen, iron powder electrode known for its superior welding performance, tough mechanical properties, crack resistance, high operator appeal, and consistent quality. The smooth metal transfer keeps spatter to a minimum, and the complete slag coverage is designed for easy removal. This premium-quality electrode meets a multitude of codes and welding specifications.

AWS Spec	Electrode (in)	Diameter (mm)	Range Amperage	Optimum Amperage	Part No.
7018-1-H8	3/32	2.4	70 – 100	90	PRS7018-332X5
7018-1-H8	1/8	3.2	105 – 155	120	PRS7018-18X5
7018-1-H8	5/32	4.0	130 – 200	170	PRS7018-532X5

Typical Mechanical Properties*	As Welded
Yield Strength, psi (MPa)	67 (462)
Tensile Strength, psi (MPa)	81 (559)
Elongation in 2" (51 mm)	26%

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

ProStar™ Stainless Steel Wire & Rod



For stainless steel fabricators, **ProStar** stainless steel wire and electrodes are designed to provide good corrosion and crack-resistant welds with excellent welding characteristics and superior wetting.

APPLICATIONS

- Chemical
- Construction
- Food Handling
- Petrochemical
- Pharmaceutical
- Structural

SPECIFICATION

- AWS 5.9, ASME SFA 5.9

MIG AND TIG CLASSIFICATIONS

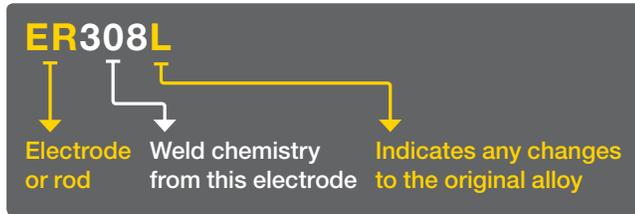
Filler Metals*	Base Material
308L, 308LSi	302, 304, 304L
309L, 309LSi	Dissimilar base metals (i.e., mild steel to stainless steel)
316L, 316LSi	304, 304L, 316, 316L

*High silicon reduces grinding requirements, but may not be suitable for some military applications or when welds are highly polished.

RECOMMENDED SELECTION GUIDELINES

Metal Thickness	Recommended Shielding Gas	Recommended Wire Type	Recommended Wire Diameter
Gas Metal Arc Welding (GMAW/MIG)			
22 gauge to 3/16" 16 gauge to 1/4" 24 gauge to 3/8" 18 gauge to 3/16"	<i>HeliStar® SS</i> <i>Stargon® SS</i>	308LHS, 309LHS, 316LHS	0.030 – 0.045"
Flux Cored Arc Welding (FCAW)			
14 gauge to 3/8" 18 gauge to 3/8" 18 gauge to 1/4"	<i>StarGold® C-25</i> Carbon Dioxide	308LT1-4, 309LT1-4, 316LT1-4	0.035 – 1/16"
Gas Tungsten Arc Welding (GTAW/TIG)			
18 to 12 gauge 28 to 12 gauge 30 to 10 gauge 30 to 7 gauge	Argon	<i>Visit Page C24 for alloy selection</i>	1/16 – 3/32" 1/16 – 1/8" 0.045 – 3/16"
Use 95% argon 5% hydrogen to weld faster and cleaner on stainless steel only. Use 75% argon 25% helium for mechanized applications on steel and stainless steel.			
Shielded Metal Arc Welding (SMAW/Stick)			
15 to 12 gauge 10 gauge to 1/2" 18 to 12 gauge 18 to 10 gauge	None	308L-, 309L-, 316L- (16 or 17)	3/32 – 1/8" 3/32 – 3/16" 3/32 – 5/32" 3/32 – 3/16"

ProStar™ Stainless Steel Welding



DESIGNATION SYSTEM FOR STAINLESS STEEL

Suffix	Additional Requirements
L	Lower carbon content
LSi	Lower carbon content, higher silicon

308L is used to weld Type 300 stainless steel (301, 302, 304) but can also be used to weld many other austenitic chromium nickel alloys of the 18Cr-8%Ni type. Used extensively in the welding of chemical plant equipment.

308LSi is a silicon-enhanced product that significantly increases wetting action, resulting in a smooth weld and improved weldability and performance on 304 steel.

309L is used for welding carbon and low-alloy steel to stainless steel. This can be done, provided the service temperature does not exceed approximately 700 °F (315 °C). Post-weld heat treatment should only be performed after due consideration.

309LSi is a silicon-enhanced grade of 309L, which improves welding properties such as wetting. It has good general corrosion resistance.

316L is used for welding 316 stainless steel and should be used on weldments intended for high-temperature service such as food service applications.

316LSi is high silicon grade of 316L. The addition of silicon improves weldability and performance.

ProStar GMAW wires feature a controlled surface, mechanical shape, and chemistry that provides a consistent, stable arc with low spatter and low wear on liners and contact tips.

GMAW/MIG WELDING CONDITIONS

Wire Diameter (in)	Wire Speed (ipm)	Amperage (Amp)	Voltage (V)	Gas Flow (ft ³ /hr)	Recommended Gases
Short Arc					
.035	150 – 300	60 – 150	14 – 21	30 – 40	Stargon® SS, HeliStar® SS
.039	145 – 290	80 – 175	16 – 22	30 – 40	Stargon SS, HeliStar SS, StarGold® C-2
.045	140 – 280	100 – 210	17 – 22	30 – 40	Stargon SS, HeliStar SS, StarGold C-2
Spray Arc					
.035	240 – 470	140 – 250	22 – 28	30 – 40	Stargon SS, StarGold C-2, StarGold C-2
.039	210 – 400	160 – 260	23 – 28	30 – 40	HeliStar SS, Stargon SS, StarGold C-2
.045	190 – 360	180 – 270	24 – 30	30 – 40	HeliStar SS, Stargon SS, StarGold C-2

CHEMISTRY

Grade	C	Mn	Si	Cr	Ni	Mo
308L/308LSi	.025	1.8	0.4/0.8	20	10	-
309L/309LSi	.025	2.0	0.4/0.8	24	13	-
316L/316LSi	.025	1.8	0.4/0.8	19	12	2.5

MECHANICAL PROPERTIES*

Yield (psi)	Tensile (psi)	Elongation (%)
55,000	85,000	37
58,000	87,000	34
60,000	88,000	35

*The data contained herein is based on testing performed under standard laboratory conditions. In normal practice, the results obtained may vary depending upon welding parameters, weld metal cooling rate, and the base plate being joined. The user should always test the electrode prior to its application.

ProStar™ Stainless Steel Wire & Rod → *continued*



ProStar Stainless Steel MIG Wire

This high-quality, stainless steel MIG wire is packaged in 33 lb (15 kg) spools.

Type	Wire Size	Part No.
308LSi	.035"	PRS05021
	.039"	PRS06309
	.045"	PRS05022
309LSi	.035"	PRS05023
	.039"	PRS06310
	.045"	PRS05024
316LSi	.035"	PRS05025
	.039"	PRS06311
	.045"	PRS05026

ProStar Stainless Steel Flux-Cored Wire

An austenitic stainless steel all-position, gas-shielded flux-cored wire with low carbon, packaged in 33 lb (15 kg) spools.

Type	Wire Size	Part No.
E308/308LT1	.045"	PRS308LT104533
E309/309LT1	.045"	PRS309LT104533
E316/316LT1	.045"	PRS316LT104533



Praxair's Stargon® SS shielding gas is an argon-based blend for MIG welding stainless steel that reduces gas costs, is readily available and provides improved color-matching, less heat input and less post-weld processing.

ProStar Stainless Steel TIG Rod

Alloy identification is embossed on each rod end for ease of identity, even after the rod is partially consumed. Capable of x-ray-quality welds. Ideal for sheet metal applications on the appropriate stainless steel base metals, high pressure piping and tubing. Packaged in 10 lb (4.5 kg) box.

Type	Size	Part No.
308L	1/16" × 36" (1.6 mm × 91 cm)	PRS05012
308L	3/32" × 36" (2.4 mm × 91 cm)	PRS05013
308L	1/8" × 36" (3.2 mm × 91 cm)	PRS05014
309L	1/16" × 36" (1.6 mm × 91 cm)	PRS05015
309L	3/32" × 36" (2.4 mm × 91 cm)	PRS05016
309L	1/8" × 36" (3.2 mm × 91 cm)	PRS05017
316L	1/16" × 36" (1.6 mm × 91 cm)	PRS05018
316L	3/32" × 36" (2.4 mm × 91 cm)	PRS05019
316L	1/8" × 36" (3.2 mm × 91 cm)	PRS05020

ProStar™ Stainless Steel Electrodes

ProStar Stainless Steel Stick/SMAW

- Electrodes are formulated to give you uncompromising results
- Lower carbon in stainless steel promotes corrosion resistance. Stainless steel electrodes come in both (-16) and (-17) coatings



ProStar Stainless Steel Stick/SMAW Electrodes

- The -16 coating version offers the most versatility, finely rippled weld metal, good all-position usage and easy-to-remove slag cover.
- The -17 coating version excels in offering a smooth, flat to concave weld deposit, which blends smoothly into the base metal with a smooth spray transfer arc and easy-to-remove slag cover.

LOW CARBON ELECTRODE TO WELD TYPES 302, 304, 304L

Type	Size	Part No.	Package Wt.
E308/308L-16 E308/308L-17	3/32" × 12" (2.5 × 300 mm)	PRSP308L160981 PRSP308L16098 PRSP308L17098	1 lb (.45 kg) 7 lbs (3.1 kg) 7 lbs (3.1 kg)
E308/308L-16 E308/308L-17	1/8" × 14" (3.25 × 350 mm)	PRSP308L161281 PRSP308L16128 PRSP308L17128	1 lb (.45 kg) 9 lbs (4.1 kg) 9 lbs (4.1 kg)
E308/308L-16 E308/308L-17	5/32" × 14" (3.97 × 350 mm)	PRSP308L16157 PRSP308L17157	9 lbs (4.1 kg) 9 lbs (4.1 kg)
For joining stainless steels together, or joining stainless steels to carbon or low alloy steels			
E309/309L-16 E309/309L-17	3/32" × 12" (2.5 × 300 mm)	PRSP309L160981 PRSP309L16098 PRSP309L17098	1 lb (.45 kg) 7 lbs (3.1 kg) 7 lbs (3.1 kg)
E309/309L-16 E309/309L-17	1/8" × 14" (3.25 × 350 mm)	PRSP309L161281 PRSP309L16128 PRSP309L17128	1 lb (.45 kg) 9 lbs (4.1 kg) 9 lbs (4.1 kg)
E309/309L-16 E309/309L-17	5/32" × 14" (3.97 × 350 mm)	PRSP309L16157 PRSP309L17128	9 lbs (4.1 kg) 9 lbs (4.1 kg)
Weld deposition matches the corrosion resistant qualities of type 316/316L stainless steel			
E316/316L-16 E316/316L-17	3/32" × 12" (2.5 × 300 mm)	PRSP316L160981 PRSP316L16098 PRSP316L17098	1 lb (.45 kg) 7 lbs (3.1 kg) 7 lbs (3.1 kg)
E316/316L-16 E316/316L-17	1/8" × 14" (3.25 × 350 mm)	PRSP316L161281 PRSP316L16128 PRSP316L17128	1 lb (.45 kg) 9 lbs (4.1 kg) 9 lbs (4.1 kg)
E316/316L-16 E316/316L-17	5/32" × 14" (3.97 × 350 mm)	PRSP316L16157 PRSP316L17157	9 lbs (4.1 kg) 9 lbs (4.1 kg)

IMPORTANT:

Fumes from the normal use of some welding products can contain significant quantities of components, such as chromium, nickel and manganese, which can exceed the 5 MG/M3 maximum exposure guidelines for general welding

ProStar™ Aluminum MIG/TIG Wire & Rod



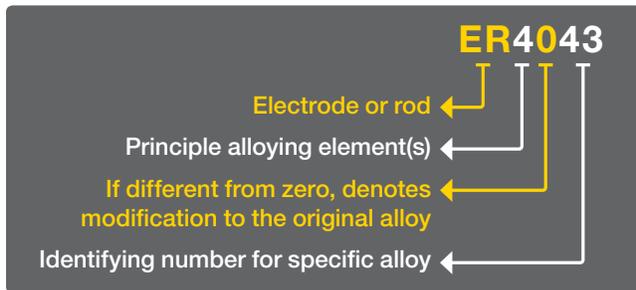
ProStar Aluminum Welding Wire

Alloy 4043 welding wire is designed for welding 6xxx, 2xxx, and 3xxx series aluminum alloys. It has a lower melting point than 5xxx alloys and increased silicon content making it preferable to welders for its fluidity, weldability, reduce sensitivity to cracking and resultant bright surface finish.

Alloy 5356 welding wire has good feed-ability when used as a MIG electrode wire. It is designed to weld 5xxx and 6xxx materials. It is not suitable for service temperatures exceeding 150 degrees Fahrenheit. Alloy 5356 is the better choice for materials which will be anodized after welding as 4043 turns black when anodized.

DESIGNATION SYSTEM FOR ALUMINUM ALLOYS

Alloy Series	Principle Alloying Element
4XXX	Silicon
5XXX	Magnesium



RECOMMENDED SELECTION GUIDELINES

Aluminum Metal Thickness	Recommended Shielding Gas	Recommended Wire Type	Recommended Wire Diameter
Gas Metal Arc Welding (GMAW/MIG)			
24 gauge to 3/8"	Argon HeliStar® A-25	ProStar 4043 ProStar 5356	0.035 – 1/16"
18 gauge to 3/16"	Argon HeliStar A-25	ProStar 4043 ProStar 5356	0.030 – 1/16"
Gas Tungsten Arc Welding (GTAW/TIG)			
18 to 12 gauge	Argon HeliStar A-25	ProStar 4043 ProStar 5356	1/16 – 3/32"
18 to 10 gauge	Argon HeliStar A-25	ProStar 4043 ProStar 5356	1/16 – 1/8"
18 to 7 gauge	Argon HeliStar A-25	ProStar 4043 ProStar 5356	1/16 – 3/16"

Aluminum MIG/TIG Wire & Rod → *continued*

ProStar™ Aluminum MIG Wire

ER4043 is the most common wire type chosen for all-purpose work. It is a stiffer wire that is used when higher-strength weld properties are needed. Before welding, use a stainless steel wire brush and clean the aluminum to assist with removal of the oxide layer.



Wire Dia	Package	Part No.
ProStar 4043		
0.030"	1 lb (.45 kg) 14 lbs (6.4 kg)	PRS404301030243 PRS404315030243
0.035"	1 lb (.45 kg) 16 lbs (7.3 kg)	PRS404301035243 PRS404315035243
3/64"	1 lb (.45 kg) 20 lbs (9.1 kg)	PRS404301047243 PRS404320047243
1/16"	20 lbs (9.1 kg)	PRS404320062243
ProStar 5356		
0.030"	1 lb (.45 kg) 14 lbs (6.4 kg)	PRS535601030243 PRS535615030243
0.035"	1 lb (.45 kg) 16 lbs (7.3 kg)	PRS535601035243 PRS535615035243
3/64"	1 lb (.45 kg) 20 lbs (9.1 kg)	PRS535601047243 PRS535620062243
1/16"	20 lbs (9.1 kg)	PRS535620062243

ProStar Aluminum Wire Drums

Wire Dia	Drum Size	Part No.
ProStar 4043		
3/64"	110 lbs (50 kg) 380 lbs (172.2 kg) 880 lbs (399.1 kg)	PRSS5AW12J0502 PRSS5AW12Q3000 PRSS5AW1201200
1/16"	110 lbs (50 kg)	PRSS5AW16J0502
ProStar 5356		
3/64"	110 lbs (50 kg) 380 lbs (172.2 kg) 880 lbs (399.1 kg)	PRSM5AW12J0502 PRSM5AW12Q3000 PRSM5AW1201200
1/16"	380 lbs (172.2 kg) 880 lbs (399.1 kg)	PRSM5AW16Q3000 PRSM5AW1601200

ProStar Aluminum TIG Rod

- ProStar 4043 includes pressure vessels and bicycle frames
- ProStar 5356 includes architectural structures and armored vehicles

Wire Dia	Package	Part No.
ProStar 4043		
1/16" × 36" (1.6 mm × 91 cm)	1 lb (.45 kg) 10 lbs (4.5 kg)	PRS404331062243 PRS404336062243
3/32" × 36" (1.6 mm × 91 cm)	1 lb (.45 kg) 10 lbs (4.5 kg)	PRS404331094243 PRS404336094243
1/8" × 36" (3.2 mm × 91 cm)	1 lb (.45 kg) 10 lbs (4.5 kg)	PRS404331125243 PRS404336125243

Wire Dia	Package	Part No.
ProStar 5356		
1/16" × 36" (1.6 mm × 91 cm)	1 lb (.45 kg) 10 lbs (4.5 kg)	PRS535631062243 PRS535636062243
3/32" × 36" (2.4 mm × 91 cm)	1 lb (.45 kg) 10 lbs (4.5 kg)	PRS535631094243 PRS535636094243
1/8" × 36" (3.2 mm × 91 cm)	1 lb (.45 kg) 10 lbs (4.5 kg)	PRS535631125243 PRS535636125243

ProStar™ Brazing & Soldering Alloys



ProStar Bronze Brazing Alloys

Low fuming bronze and flux-coated bronze are general purpose oxy-acetylene rods for braze welding steel, cast iron, malleable iron, and some nickel alloys. Commonly used for fusion welding of brass, bronze, and copper alloys. Excellent choice for rush jobs, building up wear surfaces, and temporary applications involving dissimilar metals, or when rust is present. Galvanized parts can be brazed without causing damage to the zinc coating.

A precisely formulated chemical balance of copper and zinc, along with alloying elements of tin, iron and manganese. Produces high-strength ductile and sound weld deposits that are easily machined. The high-silicon content keeps fumes to a minimum and allows for good tinning action. Preheating is recommended for some applications. Bronze brazing flux is required for the bare rods.

**ProStar
Low-Fuming
Bronze (bare)**

General purpose brazing alloy for maintenance, repair and fabrication on steel, copper alloys, nickel and nickel alloys. Preheating is recommended for some applications and a bronze brazing flux is required.

Size	1 lb (.45 kg)	5 lbs (2.3 kg)	10 lbs (4.5 kg)	50 lbs (22.6 kg)
1/16" (1.6 mm)	PRS36LFB0621	PRSS36LFB0625	PRSS36LFB062	PRSS36LFB06250
3/32" (2.4 mm)	PRS36LFB0931	PRSS36LFB0935	PRSS36LFB093	PRSS36LFB09350
1/8" (3.2 mm)	PRS36LFB1251	PRSS36LFB1255	PRSS36LFB125	PRSS36LFB12550
5/32" (4.0 mm)	PRS36LFB1561			PRSS36LFB15650
3/16" (4.8 mm)				PRSS36LFB18750
1/4" (6.4 mm)				PRSS36LFB25050

**ProStar
Flux-Coated
Bronze**

Brazing alloy for maintenance, repair and fabrication on steel, copper alloys. Flux coating provides good wetting action with no objectionable fuming.

Size	1 lb (.45 kg)	5 lbs (2.3 kg)	10 lbs (4.5 kg)
1/16" (1.6 mm)	PRS36LFBFW0621	PRSS36LFBFW0625	PRSS36LFBFW062
3/32" (2.4 mm)	PRS36LFBFW0931	PRSS36LFBFW0935	PRSS36LFBFW093
1/8" (3.2 mm)	PRS36LFBFW1251	PRSS36LFBFW1255	PRSS36LFBFW125

**ProStar Steel
Gas Welding
Rods**

RG-45 is a general purpose oxy-fuel rod for welding on steel plate, sheet and pipe wrought iron where strength up to 45 ksi is required. You do not need a flux when welding with this product.

RG-60 is a general purpose oxy-fuel rod for welding on steel pipe, plates and structural shapes in 50–60 ksi range. You do not need a flux when welding with this product

Size	1 lb (.45 kg)	5 lbs (2.3 kg)	10 lbs (4.5 kg)	50 lbs (22.6 kg)
ProStar 45 (RG-45)				
1/16" (1.6 mm)	PRS36RG450621	PRSS36RG450625	PRSS36RG45062	PRSS36RG4506250
3/32" (2.4 mm)	PRS36RG450931	PRSS36RG450935	PRSS36RG45093	PRSS36RG4509350
1/8" (3.2 mm)	PRS36RG451251	PRSS36RG451255	PRSS36RG45125	PRSS36RG4512550
ProStar 60 (RG-60)				
1/16" (1.6 mm)	PRS36RG600621	PRSS36RG600625	PRSS36RG60062	PRSS36RG6006250
3/32" (2.4 mm)	PRS36RG600931	PRSS36RG600935	PRSS36RG60093	PRSS36RG6009350
1/8" (3.2 mm)	PRS36RG601251	PRSS36RG601255	PRSS36RG60125	PRSS36RG6012550

ProStar™ Steel & Bronze TIG Rod

ER70S-2 is used primarily for single-pass TIG welding of steel, but may also be used for some multi-pass applications. Because of added deoxidants, ER70S-2 can be used for welding steels that have a rusty or dirty surface, with a possible sacrifice of weld quality, depending on the condition of the surface.



ProStar Steel TIG Welding Rods

Recommended shielding gases: argon or helium/argon mixture

ER70S-6 contains higher levels of manganese and silicon than ER70S-2, and it produces high-quality welds when used on dirty, oily or rusty steel. The high silicon content increases the fluidity of the weld pool, resulting in smoother bead appearance and minimal post-weld grinding.

Size	1 lb (.45 kg)	5 lbs (2.3 kg)	10 lbs (4.5 kg)	50 lbs (22.6 kg)
ProStar ER70S-2				
.045" (1.2 mm)			PRS3670S2156	
1/16" (1.6 mm)	PRS3670S20621	PRSS3670S20625	PRS3670S2062	PRS3670S206250
3/32" (2.4 mm)	PRS3670S20931	PRSS3670S20935	PRS3670S2093	PRS3670S209350
1/8" (3.2 mm)	PRS3670S21251	PRSS3670S21255	PRS3670S2125	PRS3670S212550
5/32"			PRS3670S2156	
ProStar ER70S-6				
1/16" (1.6 mm)	PRS3670S60621	PRSS3670S60625	PRS3670S6062	PRS3670S606250
3/32" (2.4 mm)	PRS3670S60931	PRSS3670S60935	PRS3670S6093	PRS3670S609350
1/8" (3.2 mm)	PRS3670S61251	PRSS3670S61255	PRS3670S6125	PRS3670S612550

ProStar Silicon Bronze TIG Welding Rods

Silicon bronze contains 3% silicon and residual amounts of manganese, tin and zinc. The high-silicon content allows this alloy to be used in welding and brazing procedures. Silicon bronze is best known for welding plain or galvanized steel sheet metal. Principal applications include TIG or oxy-acetylene welding of copper, copper-silicon and copper-zinc base metals to themselves and to steel. Silicon bronze is

also used for surfacing parts that may be exposed to a corrosive environment. The weld deposits of this alloy demonstrate high strength, good corrosion resistance, and good weldability.

ERCuSi-A is a silicon deoxidized, copper-based filler metal that is used to attach two pieces of metal together, where strength is secondary and cosmetics are primary.

Size	1 lb (.45 kg)	5 lbs (2.3 kg)	10 lbs (4.5 kg)	50 lbs (22.6 kg)
1/16" (1.6 mm)	PRS36SB0621	PRS36SB0625	PRS36SB062	PRS36SB06250
3/32" (2.4 mm)	PRS36SB0931	PRS36SB0935	PRS36SB093	PRS36SB09350
1/8" (3.2 mm)	PRS36SB1251	PRS36SB1255	PRS36SB125	PRS36SB12550

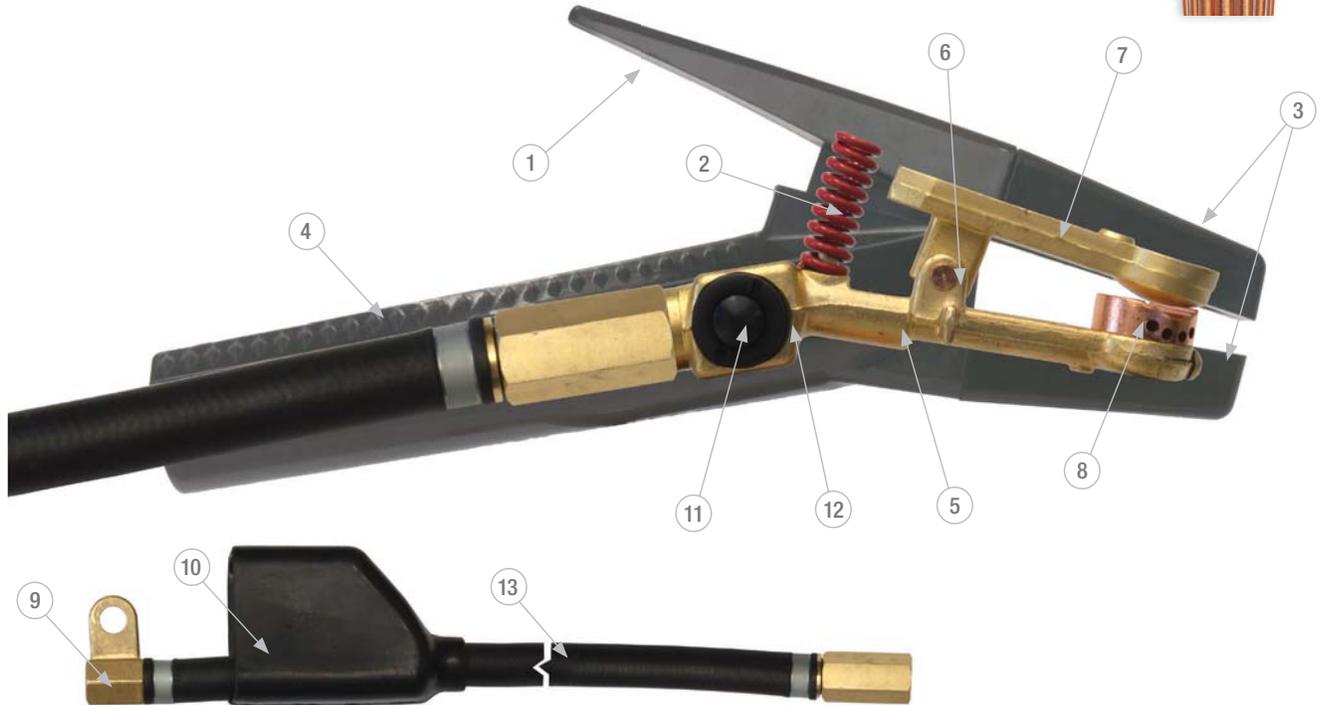
ProStar™ PRS4000 Gouging Torch

1,000 Amp Maximum

- Continuous power cable rotation
- Heavy duty yet light weight
- Accepts pointed carbons to 1/2"

AVAILABLE MIG GUNS

Part No.	Description
PRS01-082-002	PRS4000 Gouging Torch Only
PRS61-082-008	PRS4000 Gouging Torch with 7' Cable
PRS61-082-009	PRS4000 Gouging Torch with 10' Cable



#	Description	Part No.
1	Lever Assembly (with Screw)	PRS94-476-066
2	Spring	PRS94-800-077
3	Insulator Assembly (with Screws)	PRS94-433-183
4	Handle	PRS94-370-163
5	Torch Body	PRS94-103-206
6	Hinge Pin	PRS94-632-094
7	Upper Arm	PRS94-048-088
8	Head	PRS94-378-368

#	Description	Part No.
9	Air / Power Connector	PRS94-170-150
10	Insulating Boot	PRS94-105-014
	Valve with Bonnet	PRS94-104-016
11	Valve with O-Rings	PRS94-801-011
	O-Rings Only	PRS94-710-036
12	Bonnet	PRS94-104-012
	PRS4000 7' Cable	PRS70-084-207
13	PRS4000 10' Cable	PRS70-084-210

ProStar™ Premium Quality Gouging Carbons

Copper Coated for High Conductivity

Gouging electrodes are designed for the air carbon-arc metal removal process, which melts metal with an electric arc then blows it away with a jet of shop-compressed air.

ProStar premium quality carbon-arc gouging electrodes are ideal for a broad range of applications, such as creating U-grooves for weld joint preparations, removing old welds, gouging out cracks, cleaning and repairing castings, removing hard surface metal, and rough machining.

Aircraft • Automotive • Brewery • Chemical Plant • Refinery
 Marine Repair • Waterworks • Lumber • Maintenance Shop
 Agriculture • Military • Construction • Salvage • Surfacing



Enhanced Arc Stability

- Excellent metal removal rate
- Consistent diameters
- Cool operating temperature
- All-synthetic carbon content

PROSTAR DC POINTED CARBONS

Part #	Size	Qty / Box
PRS22023003	1/8" × 12" (3.2 mm × 30.5 cm)	100
PRS22983003	5/32" × 12" (4.0 mm × 30.5 cm)	50
PRS22033003	3/16" × 12" (5.0 mm × 30.5 cm)	50
PRS22043003	1/4" × 12" (6.5 mm × 30.5 cm)	50
PRS22053003	5/16" × 12" (8.0 mm × 30.5 cm)	50
PRS22063003	3/8" × 12" (9.5 mm × 30.5 cm)	50
PRS22082003	1/2" × 14" (13.0 mm × 35.6 cm)	50

PROSTAR HOLLOW POINTED CARBONS

Part #	Size	Qty / Box
PRS22033003HC	3/16" × 12" (5.0 mm × 30.5 cm)	50
PRS22043003HC	1/4" × 12" (6.5 mm × 30.5 cm)	50
PRS22053003HC	5/16" × 12" (8.0 mm × 30.5 cm)	50
PRS22063003HC	3/8" × 12" (9.5 mm × 30.5 cm)	50

PROSTAR FLAT CARBONS

Part #	Size	Qty / Box
PRS35099003	3/8" × 5/32" × 12" (9.5 mm × 4.0 mm × 30.5 cm)	50
PRS35033003	5/8" × 3/16" × 12" (16.0 mm × 5.0 mm × 30.5 cm)	50

PROSTAR DC JOINTED CARBONS

Part #	Size	Qty / Box
PRS24064003	3/8" × 17" (9.5 mm × 43.2 cm)	100
PRS24084003	1/2" × 17" (13.0 mm × 43.2 cm)	100
PRS24104003	5/8" × 17" (16.0 mm × 43.2 cm)	100
PRS24124003	3/4" × 17" (19.0 mm × 43.2 cm)	100



FILLER METALS

**PREMIUM QUALITY
 THAT'S PRAXAIR**

High Deposition Rates and Excellent Weld Quality for Carbon Steel MIG Welding

Praxair's *Stargon™ VS* welding blend helps improve throughput and productivity with reduced overall cost

STARGON VS GAS BLEND IS OPTIMAL FOR:

- Metal cored and solid wires
- All-position welding (F1, F2, F3, F4)
- High arc stability at both low and high amperages
- Jobs requiring changes in metal transfer modes and electrode types

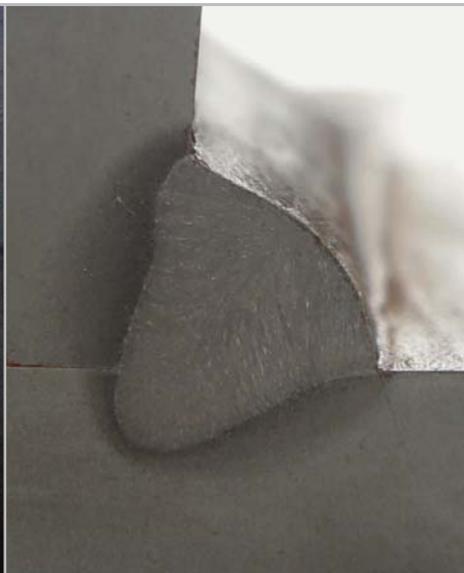
Stargon VS Welding Blend

LEFT

Welded with *Stargon VS* welding blend and .045" 70S-6 welding wire: deposition rate of 17 lbs/hr

RIGHT

Stargon VS welding blend provides excellent penetration at maximum deposition rates with little or no weld spatter



Features	Benefits
One gas, multiple applications	<ul style="list-style-type: none"> • Can be paired with a range of wire sizes and electrode types for carbon steel • Can be used with multiple forms of metal transfer
Wetting characteristics and low oxidation for enhanced performance	<ul style="list-style-type: none"> • Helium allows for exceptional heat transfer for better wetting of the puddle • Excellent arc stability at both low and high amperages
Reliable arc stability over a range of surface conditions	<ul style="list-style-type: none"> • Minimal porosity on galvanized sheet material • Less spatter on surfaces with light oil/scale

Praxair's *Stargon VS* gas blend is a proprietary blend of argon, helium and carbon dioxide that's designed to meet the demands of your MIG/MAG (GMAW) process with enhanced performance and lower operational costs.

The *Stargon VS* gas blend provides high arc energy, which stabilizes the arc and allows maximum wire transfer rates and travel speeds, focused penetration, and excellent bead appearance: good wetting, flat crown and minimal spatter.

Improve carbon steel MIG welding productivity by 20 - 40% with *Stargon VS* blend



Choose *ProStar* for all your preparation, cleaning and finishing requirements

Bonded Abrasives

Grinding & Cutting Wheels	D2 – D3
Flap Discs	D3

Wire Wheels & Brushes

Cup Brushes	D5 – D7
End Brushes	D8
Wire Wheels	D9 – D11
Hand Scratch Brushes	D12 – D14
Wheel Adaptors	D15

Chemicals

Anti-Spatter & Nozzle Dip	D16
Cooling Fluids & NDT Products	D17
Wire Lube Pads & Leak Test Solution	D18
Zinc Galvanizing Spray	D18

Marking Devices

Soapstone & Holders	D19
Industrial Markers	D20 – D21

Tools

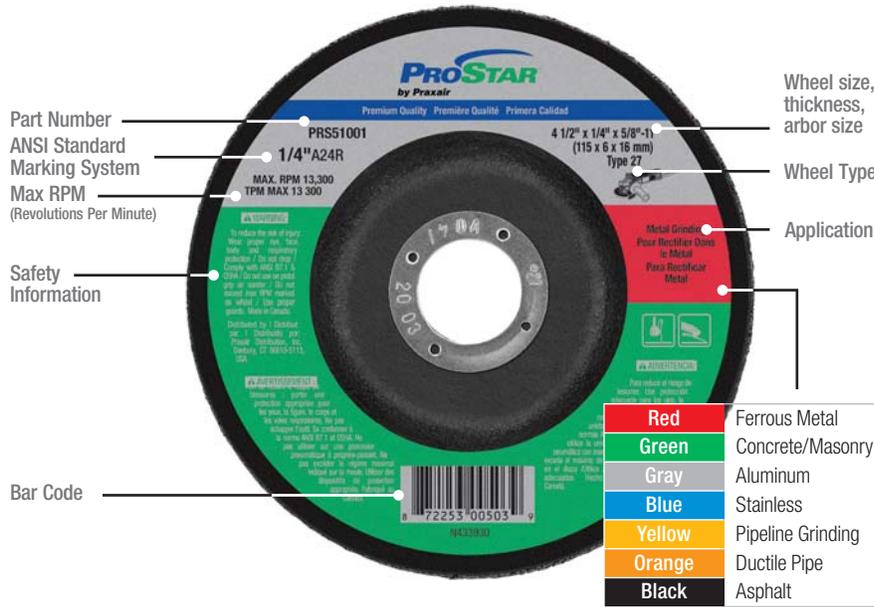
Tip Cleaners	D22
Weld Gauge, MIG Pliers & Rod Guard	D23
Lighters & Flints	D24
Chipping Hammers	D25



Abrasive Product Identification

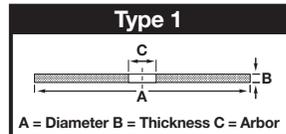
Abrasive Product Identification

Praxair utilizes an industry recognized color coding and identification system to help you verify the correct wheel for your application*

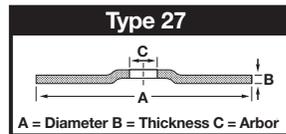


(ANSI) American National Standards Institute				
A	Primary grain used to make the wheel			
	A – Aluminum			
	TA – Treated Aluminum Oxide			
	C – Silicon Carbide			
	Z – Aluminum Zirconia			
24	Size of the abrasive grain			
	Coarse	Medium	Fine	Very Fine
	16	30	100	220
	20	36	120	240
	24	46	180	280
	60			
R	Hardness of the bond			
	Soft	Medium	Hard	
	←—————→			
	A	N	R	T
BF	Type of bond used			
	B – Resinoid			
	BF – Resinoid Reinforced			
	RF – Rubber Reinforced			
	S – Silicate			
	V – Vitrified			

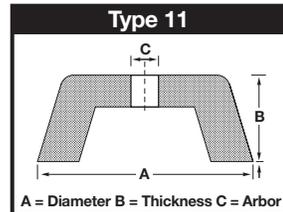
CUTTING & EDGE GRINDING



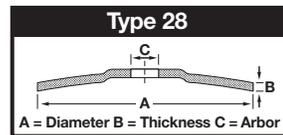
ANGLE & EDGE GRINDING



SURFACE GRINDING



SHALLOW ANGLE GRINDING



Common Application Problems

Loading. Filling of the pores of the grinding-wheel surface with the material being ground. Often results in decreased cutting rate and poor finish

- The wheel can be dressed to remove the loading temporarily.
- To prevent loading, select a wheel specifically designed for the application.

Glazing. Extreme condition of loading on a grinding wheel. Caused by dull abrasive grain and a resin buildup that covers the grain.

- The wheel can be dressed to remove the glaze temporarily.
- To prevent glazing, select a softer grade or coarser wheel.



ProStar™ Abrasives

Grinding

- Highly concentrated grain mix ensures aggressive grind & smooth operation
- Specially formulated with high-quality grains for long life
- Made using 3 layers of fiberglass reinforcement for durability

Part No.	Description	Type	Metric (mm)
PRS51000	Grinding Wheel 4-1/2 x 1/4 x 7/8	A24R	115 x 6 x 22
PRS51001	Grinding Wheel 4-1/2 x 1/4 x 5/8-11	A24R	115 x 6 x 16
PRS51002	Grinding Wheel 5 x 1/4 x 7/8	A24R	125 x 6 x 22
PRS51003	Grinding Wheel 7 x 1/4 x 7/8	A24R	180 x 6 x 22
PRS51004	Grinding Wheel 7 x 1/4 x 5/8-11	A24R	180 x 6 x 16



Pipeline

Part No.	Description	Type	Metric (mm)
PRS51012	Pipeliner Cut/Grind Wheel 4-1/2 x 1/8 x 7/8	A24R	115 x 4 x 22
PRS51013	Pipeliner Cut/Grind Wheel 4-1/2 x 1/8 x 5/8-11	A24R	115 x 4 x 16
PRS51015	Pipeliner Cut/Grind Wheel 5 x 1/8 x 7/8	A24R	125 x 4 x 22
PRS51014	Pipeliner Cut/Grind Wheel 7 x 1/8 x 5/8-11	A24R	180 x 4 x 16



Cutting

- Thin cut-off wheel designed for speed and feel
- Specially formulated with high-quality grains for long life
- Reinforced with 2 layers of fiberglass for durability while maintaining flexibility

Part No.	Description	Type	Metric (mm)
PRS51005	Cut-Off Wheel 4-1/2 x .045 x 7/8	A60T	115 x 1.2 x 22
PRS51006	Cut-Off Wheel 5 x .045 x 7/8	A60T	125 x 1.2 x 22
PRS51007	Cut-Off Wheel 6 x .045 x 7/8	A60T	150 x 1.2 x 22
PRS51009	Cut-Off Wheel 4-1/2 x .045 x 7/8	Type 27 DCW	115 x 1.2 x 22
PRS51010	Cut-Off Wheel 5 x .045 x 7/8	Type 27 DCW	125 x 1.2 x 22
PRS51011	Cut-Off Wheel 6 x .045 x 7/8	Type 27 DCW	150 x 1.2 x 22



Flap Disc

- Made with high quality zirconium grain
- Applications: weld blending, slag removal, surface prep and edge beveling
- Free of iron, sulfur, and chlorine for contaminant-free grinding

Part No.	Description	Grit	Type	Metric (mm)
PRS52001	Flap Disc 4-1/2 x 7/8	Z40	Type 29	115 x 22
PRS52002	Flap Disc 4-1/2 x 7/8	Z60	Type 29	115 x 22
PRS52003	Flap Disc 4-1/2 x 7/8	Z80	Type 29	115 x 22
PRS52005	Flap Disc 4-1/2 x 5/8-11	Z40	Type 29	115 x 16
PRS52006	Flap Disc 4-1/2 x 5/8-11	Z60	Type 29	115 x 16
PRS52007	Flap Disc 4-1/2 x 5/8-11	Z80	Type 29	115 x 16
PRS52009	Flap Disc 5 x 7/8	Z40	Type 29	125 x 22
PRS52010	Flap Disc 5 x 7/8	Z60	Type 29	125 x 22
PRS52011	Flap Disc 5 x 7/8	Z80	Type 29	125 x 22
PRS52012	Flap Disc 7 x 5/8-11	Z40	Type 29	180 x 16
PRS52013	Flap Disc 7 x 5/8-11	Z60	Type 29	180 x 16
PRS52014	Flap Disc 7 x 5/8-11	Z80	Type 29	180 x 16



Chop Saw

- Highly concentrated grain mix for aggressive cut and smooth operation
- Specially formulated with high-quality grains for long life
- Made using 2 full layers of fiberglass reinforcement for durability

Part No.	Description	Type	Metric (mm)
PRS51008	Chop Saw Wheel 14 x 3/32 x 1 General Purpose	Type 1	355 x 2.88 x 25.4



ProStar™ Cup Brushes

Cup style brushes are made in two types: knot wire in steel and stainless steel for heavy duty, or crimped wire for lighter surface preparation and deburring service. Cup brushes are easily mounted on CNC machines and portable tools, air or electric powered.



ProStar Crimped Wire Cup Brush

Designed for light and medium-duty applications on a variety of high-speed air and electric tools. Offers smooth, responsive cutting action at all speeds on a variety of jobs. Applications: cleaning large metal surfaces, removal of burrs, weld scale and rust, edge blending and surface preparation. Threaded arbor hole: 5/8"-11NC.

Part No.	Brush Diameter	Fill Diameter	Fill Material	Trim Length	Max RPM
PRS53045 clam	4"	0.020"	Steel	1-1/8"	9,000
PRS53095	4"	0.020"	Steel	1-1/8"	9,000
PRS53097 clam	5"	0.020"	Steel	1-1/2"	8,000
PRS53098	5"	0.020"	Steel	1-1/2"	8,000
PRS53048 clam	6"	0.020"	Steel	1-1/2"	7,000
PRS53101	6"	0.020"	Steel	1-1/2"	7,000



ProStar Knot Wire Cup Brush

Knot wire cup brushes are rugged, efficient tools for fast, heavy-duty cleaning of large metal surfaces. They are specifically designed for use on portable tools and are filled with steel wire. Recommended for extremely rigorous jobs. Applications: removing of weld scale, rust, old paint and corrosion, cleaning and preparation of metals. Threaded arbor hole: 5/8"-11NC.

Part No.	Brush Diameter	Fill Diameter	Fill Material	Trim Length	Max RPM
PRS53087* clam	3-1/2"	0.014"	Stainless steel	1-3/8"	7,500
PRS53090 clam	3-1/2"	0.020"	Steel	1-3/8"	7,500
PRS53093	4"	0.014"	Steel	1-1/4"	6,000
PRS53043 clam	4"	0.014"	Steel	1-1/4"	6,000
PRS53094	4"	0.020"	Stainless steel	1-1/4"	6,000
PRS53092 clam	4"	0.020"	Stainless steel	1-1/4"	6,000
PRS53096	4"	0.025"	Steel	1-1/4"	9,000
PRS53044 clam	4"	0.025"	Steel	1-1/4"	9,000
PRS53100	6"	0.014"	Steel	1-3/4"	6,000
PRS53099 clam	6"	0.014"	Steel	1-3/4"	6,000
PRS53103	6"	0.020"	Steel	1-1/4"	6,600
PRS53046 clam	6"	0.020"	Steel	1-3/4"	6,600

* Heavy duty

ProStar™ Cup Brushes → continued

ProStar High Speed Small Grinder Crimped Wire Cup Brush

Made for use on portable power tools operating at high speeds or where uniform cleaning is desired. Designed for long life with 4-1/2" and 5" grinders. Applications: cleans and prepares flat surfaces and edges, light and medium-duty cleaning. Max RPM 14,000.



Part No.	Brush Diameter	Fill Diameter	Fill Material	Threaded Arbor Hole	Trim Length
PRS53079	2-3/4"	0.014"	Stainless steel	5/8"-11NC	1"
PRS53078	2-3/4"	0.014"	Steel	5/8"-11NC	1"
PRS53035 clam	2-3/4"	0.014"	Steel	5/8"-11NC	1"
PRS53040 clam	3-1/2"	0.014"	Steel	5/8"-11NC	7/8"

ProStar High Speed Small Grinder Knot Wire Cup Brush

For use with high speed small grinders. Knot wire for low to medium flexibility and aggressive cutting action. Stainless steel knot wire for use on stainless, aluminum and high tensile alloys. Applications: removes scale, deburring, cleans welds and flat surfaces. Max RPM 14,000.



Part No.	Brush Diameter	Fill Diameter	Fill Material	Threaded Arbor Hole	Trim Length
PRS53039	2-3/4"	0.014"	Stainless steel	5/8"-11NC	1"
PRS53036	2-3/4"	0.014"	Steel	5/8"-11NC	1"
PRS53038	2-3/4"	0.020"	Steel	5/8"-11NC	1"
PRS53080	2-3/4"	0.014"	Steel	5/8"-11NC	7/8"
PRS53037 clam	2-3/4"	0.020"	Stainless steel	5/8"-11NC	7/8"
PRS53083	2-3/4"	0.020"	Stainless steel	5/8"-11NC	7/8"
PRS53081	2-3/4"	0.020"	Steel	5/8"-11NC	7/8"
PRS53082 clam	2-3/4"	0.020"	Steel	3/8"-24UNF	7/8"

ProStar High Speed Small Grinder Knot Wire Cup Brush

Specially treated to prevent premature failure in extra heavy-duty applications. Applications: general cleaning, cleaning of curved or flat surfaces and corners, pipe bevel buffing. Threaded arbor hole: 5/8"-11NC. Max RPM 14,000.



**HEAVY
DUTY!**

Part No.	Brush Diameter	Fill Diameter	Fill Material	Trim Length
PRS53086	3-1/2"	0.014"	Stainless steel	7/8"
PRS53041 clam	3-1/2"	0.020"	Steel	7/8"
PRS53089	3-1/2"	0.020"	Steel	7/8"
PRS53042 clam	3-1/2"	0.020"	Stainless steel	7/8"
PRS53091	3-1/2"	0.020"	Stainless steel	7/8"

ProStar™ End Brushes

Designed so the ends of the fill strands do the bulk of the work. Sides can be used to finish vertical surfaces parallel to the shaft. Use for portable and robotic equipment and areas of limited space.



ProStar Crimped Wire End Brush

With 1/4" shank. Ideal for a variety of general uses including surface blending, cleaning and polishing; can be used on CNC equipment. Applications: rubber and plastic mold cleaning, removing rust, weld scale and spatter, cleaning castings, burr removal, spot facing, cleaning and finishing recessed areas.

Part No.	Brush Diameter	Fill Diameter	Fill Material	Max RPM	Trim Length
PRS53109	1/2"	0.005"	Stainless steel	25,000	1"
PRS53108 clam	1/2"	0.005"	Stainless steel	25,000	1"
PRS53111 clam	1/2"	0.0104"	Steel	25,000	1"
PRS53112 clam	1/2"	0.020"	Steel	25,000	1"
PRS53128 clam	3/4"	0.0104"	Stainless steel	22,000	1"
PRS53126	3/4"	0.0104"	Steel	25,000	1"
PRS53127 clam	3/4"	0.0104"	Steel	22,000	1"
PRS53129	3/4"	0.020"	Steel	22,000	1"
PRS53113 clam	1"	0.005"	Stainless steel	22,000	1"
PRS53117	1"	0.006"	Steel	22,000	1"
PRS53115 clam	1"	0.006"	Steel	22,000	1"
PRS53121	1"	0.0104"	Stainless steel	22,000	1"
PRS53031 clam	1"	0.0104"	Stainless steel	22,000	1"
PRS53120	1"	0.0104"	Steel	22,000	1"
PRS53118 clam	1"	0.0104"	Steel	22,000	1"
PRS53125	1"	0.020"	Steel	22,000	1"

ProStar Knot Wire End Brush



Rugged brushing tool designed to offer efficient usage for a wide variety of tough cleaning and maintenance applications. Applications: cleaning of dies, molds and tooling, spot cleaning or facing, removal of slag, rust or scale, deburring or flash removal, pipe cleaning.

Part No.	Brush Diameter	Fill Diameter	Fill Material	Max RPM	Trim Length
PRS53123	1"	0.014"	Stainless steel	22,000	1"
PRS53032 clam	1"	0.014"	Steel	22,000	1"
PRS53124	1"	0.020"	Steel	22,000	1"
PRS53033 clam	1"	0.020"	Steel	22,000	1"

ProStar Knot Wire End Brush Scuf-Gard Coated, Stainless



Made with a rugged, durable elastomer layer on the cup to prevent accidental scratches or marring on the work surface during operation.

Part No.	Brush Diameter	Fill Diameter	Fill Material	Max RPM	Trim Length
PRS53116	1"	0.006"	Stainless steel	20,000	1-1/8"
PRS53119	1"	0.0104"	Stainless steel	20,000	1-1/8"

Warning:
as a safety precaution, shank must be fully inserted into the chuck or collet and tightened securely.

ProStar™ Wire Wheel Brushes

The circumferential edge, or “face” of this circular-style brush performs the work. Wire wheel brushes are ideal for removal of material, flash, rust, paint, cleaning welds, deburring, deflashing, edge blending, skiving and buffing. The most widely used design, the wheel brush, can be mounted either horizontally or vertically, with the tips of the wires doing the actual work as they contact the workpiece.

ProStar Crimped Wire Narrow Face Wheel Brush

More flexible than the wide and medium-duty styles. For wider surfaces where flexibility is required, they can be mounted in multiples.



Part No.	Brush Diameter	Fill Diameter	Fill Material	Max RPM	Arbor Hole
PRS53181	6"	0.008"	Steel	6,000	5/8"

ProStar Small Diameter Crimped Wire Wheel Brush

Specially designed for effective brushing operations on internal surfaces and other hard-to-reach areas. They can be mounted singly or in multiples, directly onto the shaft of a portable tool. Max RPM 20,000.



Part No.	Brush Diameter	Fill Diameter	Fill Material	Trim Length	Arbor Hole
PRS53148	1-1/2"	0.014"	Steel	3/8"	3/8"
PRS53155	3"	0.008"	Steel	1"	1/2"
PRS53158	3"	0.014"	Stainless steel	1"	1/2"
PRS53156	3"	0.014"	Steel	1"	1/2"

ProStar Crimped Wire Wheel Brush with Shank

Uniform, dense fill and can be used off-hand or on drill presses for internal and external cleaning and deburring. Applications: rust, scale, paint, dirt and weld spatter removal. Shank diameter 1/4".



Part No.	Brush Diameter	Fill Diameter	Fill Material	Trim Length	Max RPM
PRS53146	1-1/2"	0.008"	Steel	0.281"	25,000
PRS53149	2"	0.008"	Steel	0.438"	25,000
PRS53151	2"	0.014"	Steel	0.438"	25,000
PRS53162	3"	0.014"	Steel	0.75"	25,000
PRS53163	3"	0.014"	Stainless steel	0.75"	25,000
PRS53169	4"	0.008"	Stainless steel	1"	15,000
PRS53170	4"	0.014"	Stainless steel	1"	15,000

ProStar™ Crimped & Knot Wire Wheels



ProStar Crimped High-Speed Small Grinder Wire Wheel Brush

Uniform, dense fill and can be used off-hand or on drill presses for internal and external cleaning and deburring. Applications: rust, scale, paint, dirt and weld spatter removal. Max RPM 15,000.

Part No.	Brush Diameter	Fill Diameter	Fill Material	Threaded Trim Length	Arbor Hole
PRS53168*	4"	0.006"	Stainless steel	7/8"	5/8-11NC
PRS53172	4"	0.014"	Stainless steel	7/8"	5/8-11NC
PRS53171	4"	0.014"	Steel	7/8"	5/8-11NC
PRS53007 clam	4"	0.014"	Steel	7/8"	5/8-11NC

* Type 316 stainless steel



ProStar Knot Wire Wheel Brush

Rugged knot-type construction provides high brush flexibility, more uniform results, maximum safety and efficient operation at high speeds. Brushes larger than 6" should be mounted on stationary tables; those 6" and smaller can be mounted on stationary installations or attached to portable tools. Applications: removal of rubber flash, paint slag, scale, rust, surface contamination, weld cleaning, blending, finishing, deburring and general cleaning.

Part No.	Brush Diameter	Fill Diameter	Fill Material	Trim Length	Max RPM
PRS53164 clam	3"	0.020"	Steel	5/8"	25,000
PRS53182	6"	0.016"	Stainless steel	1-1/2"	9,000
PRS53183*	6"	0.025"	Steel	1-1/2"	9,000
PRS53180* clam	6"	0.025"	Steel	1-1/2"	9,000

* Cable Twist Knot



ProStar High-Speed Small Grinder Knot Wire Wheel Brush

High-speed small grinder wheel brush with standard twisted knot. Fast cleaning action, weld cleaning, easy to handle. Applications: cleans grooves, T-connections, welded beads and surface preparation. Maximum RPM 20,000.

Part No.	Brush Diameter	Fill Diameter	Fill Material	Threaded Trim Length	Arbor Hole
PRS53009 clam	4"	0.014"	Stainless steel	7/8"	5/8-11NC
PRS53174	4"	0.014"	Steel	7/8"	5/8-11NC
PRS53008 clam	4"	0.014"	Steel	7/8"	5/8-11NC
PRS53010 clam	4"	0.020"	Steel	7/8"	5/8-11NC

ProStar™ Wire Wheel Brushes

ProStar High-Speed Small Grinder Cable Knot Wire Wheel Brush

Excellent for standard knot wire applications that need more aggressive action.



Part No.	Brush Diameter	Fill Diameter	Fill Material	Trim Length	Threaded Arbor Hole
PRS53173 clam	4"	0.020"	Stainless steel	7/8"	5/8"-11NC
PRS53017 clam	4"	0.020"	Steel	7/8"	5/8"-11NC

ProStar High-Speed Small Grinder Stringer Bead Wire Wheel Brush

Works aggressively, yet smoothly and efficiently, on air tools or portable power tools. Application: bead scale removal. Max RPM 20,000.



Part No.	Brush Diameter	Fill Diameter	Fill Material	Trim Length	Threaded Arbor Hole
PRS53015 clam	4"	0.020"	Stainless steel	7/8"	5/8"-11NC
PRS53016	4"	0.020"	Stainless steel	7/8"	5/8"-11NC
PRS53013 clam	4"	0.020"	Steel	7/8"	5/8"-11NC
PRS53014	4"	0.020"	Steel	7/8"	5/8"-11NC

ProStar Stringer Bead Knot Wire Wheel Brush

The small width of this brush allows it to be used in recessed areas, such as welding junctions in pipeline fabrication. Application: bead scale removal. Threaded arbor hole: 5/8-11NC, max RPM 12,000.



Part No.	Brush Diameter	Fill Diameter	Fill Material	Trim Length	Face Width
PRS53166	4-7/8"	0.020"	Stainless steel	1"	3/16"
PRS53165 clam	4-7/8"	0.020"	Stainless steel	1"	3/16"
PRS53167	4-7/8"	0.020"	Steel	1"	3/16"
PRS53018 clam	4-7/8"	0.020"	Steel	1"	3/16"
PRS53178	6-1/2"	0.020"	Stainless steel	1-7/32"	1/4"
PRS53176 clam	6-1/2"	0.020"	Stainless steel	1-7/32"	1/4"
PRS53179	6-1/2"	0.020"	Stainless steel	1-1/4"	3/16"
PRS53177	6-1/2"	0.020"	Steel	1-7/32"	1/4"
PRS53175 clam	6-1/2"	0.020"	Steel	1-7/32"	1/4"
PRS53023	6-1/2"	0.020"	Steel	1-1/4"	3/16"
PRS53022 clam	6-1/2"	0.020"	Steel	1-1/4"	3/16"

ProStar™ Scratch Brushes

The blocks are kiln-dried hardwood for maximum tuft retention, even in severe applications. Skilled workmanship assures you of uniform distribution of fill material and firmly anchored tufts. The high-quality, staple-set wire provides long, effective brush life. Hang-up hole for convenient storage.



Shoe Handle Wire Scratch Brush

Used for removing rust, scale, paint, solder, etc.

Part No.	Fill Material	Rows	Block Width
PRS53135	Steel	4 × 16	1-1/8"
PRS53142	Stainless steel	4 × 16	1-1/8"



Economy Shoe-Handle Scratch Brush

Economy brushes provide lasting, efficient service at a minimal cost.

Part No.	Fill Material	Rows	Fill Diameter
PRS53051	Steel	4 × 16	0.014"
PRS53052	Stainless steel	4 × 16	0.012"
PRS53136	Steel	4 × 16	0.014" brush with scraper



Curved Handle Scratch Brush

Kiln-dried hardwood for maximum tuft retention, smooth machined finish provides excellent comfort in use. Overall length is 13-11/16"

Part No.	Fill Material	Rows	Brush Area Width
PRS53141	Stainless steel	3 × 19	31/32"
PRS53134	Steel	3 × 19	31/32"
PRS53137	Steel	4 × 19	1-1/4" heavy-duty brush

ProStar™ Scratch Brushes → *continued*

Economy Curved Handle Scratch Brush

For removing dirt and rust from pipe threads, welding and metal castings.



Part No.	Fill Material	Rows	Fill Diameter	Brush Area Width	Brush Area Length
PRS53049	Steel	3 × 19	0.014"	15/16"	6"
PRS53050	Stainless steel	3 × 19	0.012"	15/16"	6"
PRS53138	Steel	4 × 19	0.014"	1-1/8"	6" Heavy duty
PRS53143	Stainless steel	4 × 19	0.012"	1-1/8"	6" Heavy duty

Small Cleaning Scratch Brush

For all types of rust and dirt removal.

Part No.	Fill Material	Rows	Brush Length
PRS53057	Brass	3 × 7	7-3/4"
PRS53139	Steel	3 × 7	7-3/4"
PRS53053	Stainless steel	3 × 7	7-3/4"



Economy Small Cleaning Scratch Brush

Molded plastic handle features hang-up hole for convenient storage.

Part No.	Fill Material	Rows	Fill Diameter	Brush Length
PRS53055	Stainless steel	3 × 7	0.006"	7-1/4"



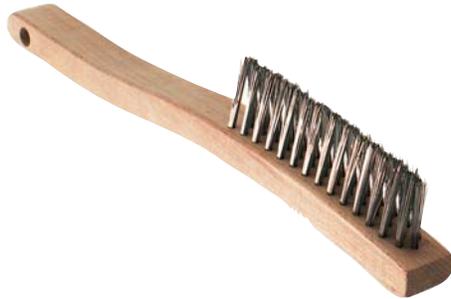
Small Cleaning Scratch Brush, Laced Back Style

Light duty cleaning of hard-to-reach spots and for cleaning welds in confined areas.

Part No.	Fill Material	Rows	Fill Diameter	Brush Length
PRS53145	Stainless steel	3 × 7	0.006"	7-1/2"



ProStar™ Scratch, Acid & Paint Brushes



ProStar V-Groove Long Handle Scratch Brush

Designed for use in hard-to-reach areas that require a narrow face.

Part No.	Fill Diameter	Fill Material	Rows	Block Width
PRS53140	0.014	Steel	3 x 14	1-1/2"
PRS53144	0.012	Stainless steel	3 x 14	1-1/2"



ProStar Horsehair Acid Brush

Acid/flux brush with tin ferrule.

Part No.	Width	Trim Length	Overall Length
PRS53061	3/8"	3/4"	6-1/8"
PRS53062	7/16"	3/4"	6-1/8"
PRS53063	9/16"	3/4"	6-1/8"



ProStar Paint/Maintenance Brushes

The white bristle provides the proper stiffness and taper and is suited for spreading latex paint, epoxies and glue. Wood handle.

Part No.	Overall Width	Brush Thickness	Trim Length
PRS53130	1"	5/16"	1-1/2"
PRS53131	2"	5/16"	1-1/2"
PRS53132	3"	3/8"	1-1/2"
PRS53133	4"	11/16"	2-1/4"

ProStar™ Adapters & Drive Arbor

High-Speed Thread Adapters

For use with small grinder brushes.

Part No.	Fixed Throat Size	Thread Size
PRS53074	3/8"-11NC	3/8"-24UNF
PRS53076	5/8"-11NC	M10 × 1.50



Metal Adapters

For brushes with 2" arbor hole – slip fit adapter.

Part No.	Adapter Fits	Arbor Hole
PRS53066	2"	1/2"
PRS53070	2"	5/8"
PRS53064	2"	1"



Brush Drive Arbors

For brushes up to 3" in diameter only. Designed for use with a single brush only. Not for use with grinding wheels, abrasive discs, buffs, buffing pads or other non-brush perishable tools.

Part No.	Diameter	Overall Length	Shank Diameter	Packaged
PRS53000	3/8"	1-1/2"	1/4"	Clamshell
PRS53107	3/8"	1-1/2"	1/4"	
PRS53104	1/2"	1-3/4"	1/4"	Clamshell
PRS53105	1/2"	1-3/4"	1/4"	



ProStar™ Chemicals



Time to Shine

ProStar anti-spatter solutions reduce cleanup time and spatter buildup on MIG gun nozzles and welding surfaces

SINGLE COATING PROTECTS FOR UP TO EIGHT HOURS OF WELDING

Water-Based Anti-Spatter

ProStar water-based anti-spatter is an all-natural product that includes a rust inhibitor for metal protection. The high solids content ensures protective coating with no burn-off, so the welder can “weld through” while wet. All *ProStar* anti-spatters are free of ozone-depleting chemicals.

Part No.	Description
PRS50214	14.5 oz (410 g) water base
PRS50215	0.26 gal (1 litre) water base
PRS50400	1.0 gal (4 litres) water base
PRS50217	5.2 gal (20 litres) water base
PRS50218	52.8 gal (200 litres) water base

ProStar Nozzle Dip

Nozzle dip can be applied to semi-automatic and automatic MIG gun nozzles and tips for protection against spatter buildup. It can also be applied to weld fixtures and jigs for longer life and ease of cleaning. Nonflammable, nontoxic nozzle dip contains no silicones, fluorocarbons, or ozone depleting chemicals. No-wax filler formula means less product is required for protection, which saves money.

Part No.	Description
PRS50002	16 oz (473 ml)



Ceramic Anti-Spatter

Easily prevent spatter build-up on welding equipment and substrates such as MIG tips, nozzles, fixtures and jigs. Our new ceramic anti-spatter provides long lasting protection. Unlike formulations that stay liquid, ceramic anti-spatter dries to form a solid, durable coating. Residues, which can cause contamination or porosity, will not enter the weld. Cleans off easily with common solvents.

Part No.	Description
PRS50104	16 oz aerosol

Solvent-Based Anti-Spatter

Chiseling, scraping and wire brushing to remove weld spatter is a tedious, time consuming, and costly operation. *ProStar* anti-spatter reduces spatter buildup and cleanup time on MIG gun nozzles and welding surfaces. It is heat resistant, non-flammable, and paint compatible.

Part No.	Description
PRS50001	16 oz aerosol

ProStar Cooling Fluids

Inhibited blends of deionized filtered water and glycol. Designed for use in MIG, TIG, plasma and resistance welding systems to cool and protect equipment. One gallon (3.78 litre) size.

Part No.	Description
Ethylene Glycol Based	
PRS50200	Regular temperature +19 °F (-7 °C)
PRS50201	Mild temperature +6 °F (-14 °C)
PRS50202	Low temperature -32 °F (-35 °C)
Propylene Glycol Based	
PRS50204	Safe Cool Fluid temperature +10 °F (-12 °C)



Non-Destructive Testing (NDT) Products

1 ProStar Dye Penetrant Solvent

Locates surface flaws quickly and easily, finds cracks in manufactured parts and production equipment, and spot checks stress-susceptible machinery. Does not require additional equipment to provide visible indication under normal light conditions. 100% aerosol sprayout guarantee.

Part No.	Description
PRS50209	12.5 oz (350 g) solvent removable
PRS50210	12.5 oz (350 g) water washable

2 ProStar Developer Solvent

Standard grade developer solvent for non-destructive testing.

Part No.	Description
PRS50211	12 oz (340 g) aerosol

3 ProStar Solvent Cleaner

Meets AMS2644 Rev A, meets ASME Section V nuclear grade, halogen and chloride-free, Class 2 Non-halogenated. This non-chlorinated cleaner/remover is recommended for general purpose applications. Also meets major requirements for special alloy and nuclear applications.

Part No.	Description
PRS50212	12 oz (340 g) aerosol

Easy 3-Step Process for Fault Inspection!



VISIBLE PENETRANTS METHOD

<p>1) Pre-Clean</p>  <p>Pre-clean inspection area. Spray on solvent cleaner. Wipe off with a cloth.</p>	<p>2) Apply Penetrant</p>  <p>Apply dye penetrant. Allow short penetration period.</p>	<p>3) Clean</p>  <p>Spray solvent cleaner on wiping towel and wipe the surface clean.</p>
<p>4) Apply Developer</p>  <p>Spray on a thin, uniform film of developer solvent.</p>	<p>5) Inspect</p>  <p>Inspect. Defects will show as bright red lines in white developer background.</p>	

ProStar™ Lube Pad, Leak Test, Zinc Spray

ProStar Wire Lube Pads

Pre-treated replacement pads reduce friction in wire feed units. Pads are coated to remain wet without containing excess liquid. Non-irritating, non-toxic, odorless and methylene chloride-free pads eliminate health and safety concerns.

Part No.	Description
PRS50007	6 pads and 1 clip
PRS50005	25 pads and 1 clip
PRS50009	Untreated pads for aluminum, 6 pads and 1 clip
PRS50004	8 oz (236 ml) wire feed relubrication solution
PRS50102	6 round, premium treated pads with 6 clips
PRS50103	6 round, premium untreated pads with 6 clips



Relubrication Solution
PRS50004



ProStar Leak Test Solution

Formulated to test pressurized gas and air systems including oxygen, acetylene, propane, butane and LPG. Check fittings, regulators, cylinder valves, hose connections and safety devices. Low temperature leak test can be used below freezing and on cryogenic systems. All products are ammonia free and do not promote stress crack corrosion. Halogen and chloride free – safe for nickel, stainless steel, etc. (ASME V). Meets MIL-PRF-25567E – oxygen approved and safe. Each 8 oz (236 ml) bottle includes a 12" (30 cm) pull-out extension tube to control product flow, saving time and money. Available in a range of temperatures for leak detection in all seasons and all systems.

Part No.	Description	Size
PRS50205	Regular temperature Type I (+27 to 200 °F) (-3 to 93 °C)	8 oz (236 ml)
PRS50206	Regular temperature Type I (+27 to 200 °F) (-3 to 93 °C)	1 gal (3.7 l)
PRS50207	Low temperature Type II (-65 to 200 °F) (-54 to 93 °C)	8 oz (236 ml)
PRS50208	Low temperature Type II (-65 to 200 °F) (-54 to 93 °C)	1 gal (3.7 l)



Zinc Galvanizing Spray

Provides excellent corrosion protection on welds, galvanized steel, base iron and other ferrous surfaces exposed to harsh environments. As a high-quality product that meets MIL-P-21035, the high zinc content ensures a bright, shiny protective finish.

Part No.	Description
PRS50213	12 oz (340 g) spray, glossy finish
PRS50105	Matte finish

ProStar™ Industrial Markers



ProStar Silver Streak Metal Marker

Marks on all types of metal surfaces, won't rub off like soapstone. Ideal for metal layout and fabrication work, marks are resistant to torch flames. Durable metal and plastic holders prevent breakage.

Part No.	Description
PRS58504	Silver Streak
PRS58505	Silver Streak refill, 6-pk

ProStar Soapstone and Soapstone Holders

Number 1 select, natural grade, all-white texture soapstone for excellent marking quality. Marks will not contaminate welds. Low water content for increased hardness and resistance to breakage. Holders made of stainless steel body. Steel nut holds soapstone firmly.

Part No.	Description
PRS58019	Round soapstone holder with soapstone
PRS58018	10 round soapstones
PRS58103	Round soapstone holder – sold in bulk
PRS58017	Flat soapstone holder with soapstone
PRS58016	6 flat soapstones
PRS58100	Flat soapstone holder – sold in bulk
PRS58023	Thin, flat soapstone holder and soapstone
PRS58022	10 thin, flat soapstones

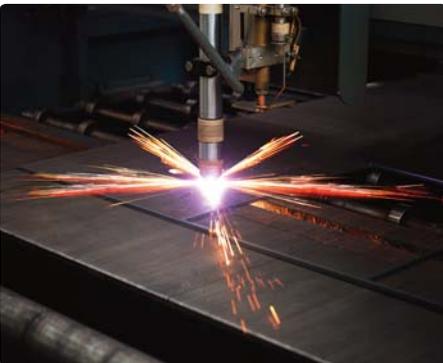
Flat Holder
PRS58017



Thin Holder
PRS58023



Round Holder
PRS58019



ProStar Pocket Scribe

Lightweight yet strong. Sharp tungsten carbide tip cuts into hard surfaces and leaves a clear mark on metal, glass, plastic, tools, etc. Handy pocket clip.

Part No.	Description
PRS71005	Scriber with replaceable carbide point

ProStar™ Industrial Markers → *continued*



ProStar Valve Action Paint Markers

Marks with real paint. Dries in only 3 minutes and is weather-resistant. Valve accurately meters the paint flow so the necessary amount of paint passes through the long-lasting fiber tip. Durable metal barrel. Marks are permanent, won't chip, peel, fade or rub off. They withstand heat and weathering under adverse conditions. Available in 5 bright, high-gloss, lead-free colors. For use on all metals, plastics, glass, cardboard, wood, ceramics, rubber, paper. Marking range -50 °F to 150 °F (-46 °C to 66 °C).



Part No.	Color	Part No.	Color
PRS58507	Red	PRS58512	White
PRS58508	Black	PRS58513	Yellow
PRS58509	Blue		



ProStar Pro-Line Paint Marker

Fine (2 mm) tip size for ultimate precision. For use on all metals, plastics, glass, wood and rubber. Xylene-free paint for less odor. High-strength, lightweight barrel, self-storing cap with integrated pocket clip. Ergonomic design for comfortable extended use. Marking range -50 °F to 150 °F (-46 °C to 66 °C).



Part No.	Color
PRS58510	Fine White
PRS58511	Fine Yellow



ProStar Ball Paint Marker

Marks with real paint, dries in 5 minutes, metal ball tip marks on oily, smooth or rough surfaces. Marks are weather- and fade-resistant. Lead-free, non-toxic. Plastic cap keeps tip clean between jobs. Marking range -50 °F to 150 °F (-46 °C to 66 °C). Unbreakable plastic bottle for marking with real paint on metal, plastic, wood, glass and any hard surface.



Part No.	Color
PRS58503	White
PRS58502	Yellow

ProStar™ Paint & Ink Markers



ProStar B – Paintstik Paint Marker

Real paint in solid stick form makes marking through oil, water and rough or dirty surfaces fast and easy. Cardboard cover allows you to use the entire stick. Marks are permanent – won't peel, fade, chip or rub off. Ideal for layout, color coding, fabrication and identification. Weather resistant, UV resistant. Lead-free, non-toxic. Marking range -50 °F to 150 °F (-46 °C to 66 °C). For use on metals, plastic, wood, glass, concrete and rubber.

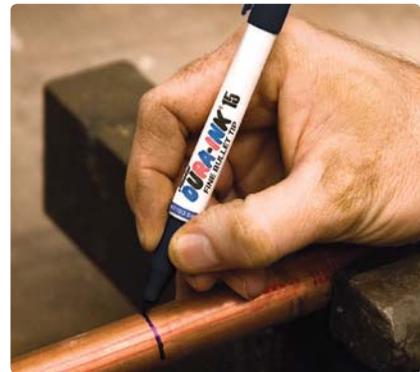
Part No.	Description
PRS58500	White, 2-pk
PRS58501	Yellow, 2-pk



ProStar Dura-Ink 15 Ink Marker – Fine

Fine tip is ideal for fine line marking on metal, cardboard, wood, paper, plastic and glass. Smear and water resistant, fast drying, extra-tough tip won't spread or mush. For identification of parts, layout work and marking cartons and crates.

Part No.	Color
PRS58506	Black



ProStar Dura-Ink 25 Ink Marker – Medium

Versatile chisel tip for 1/16" (1.6 mm) and 5/16" (7.9 mm) marks. Extra-large ink supply, heavy-duty metal barrel, chisel tip for fine or broad marks. For use on cardboard, wood, metal, paper, ceramics, glass and leather. Smear resistant, water resistant, fast drying. Excellent for identification of equipment, shipping cartons and sign making.

Part No.	Color
PRS58514	Black



ProStar™ Tools



Standard Set
PRS57007



Tip Drill Kit
PRS71014



King Set
PRS57008

ProStar Tip Cleaners

Rust-proof, stainless steel wire and file, tapered ends allow smooth entry without scratching. Uniform ridges wipe and polish the orifice wall; tangle-free loops.

Using a Tip Cleaner

- Start with the smallest size that will enter the orifice without excessive force, and work up to the orifice size
- Be careful—a broken tip cleaner usually means a destroyed tip
- Clean the face of the tip with the included file

Part No.	Description	Cleaning Size	Drill Size
PRS57007	Standard set of 13 cleaners with file	#6 – 26	77 – 49
PRS57008	King set of 13 extra long cleaners with file	#6 – 26	77 – 49
PRS57009	Jumbo set of 9 cleaners with file	#28 – 45	48 – 30
PRS71014	Tip drill kit, 12-piece drills with built-in chuck and pocket clip	#52 – 74	

Bulk Part No.	Description
PRS57021	Standard set



ProStar Tip Refacing Tool

Eliminates scale, slag and orifice distortion from cutting tip faces. Just a few quick turns, and the refacing tool restores the face of your tips to their clean, original condition.

Part No.
PRS57011

ProStar™ Tools → *continued*



ProStar Fillet Weld Gauge

For inspection of concave and convex fillet welds. Permits quick and accurate measuring of the most popular weld fillet sizes in inches and metric: 1/8" - 1" (3.2 - 25.4 mm). All sizes and numerals are laser etched into the surface for clarity and easier reading. Set of seven blades comes in a handy vinyl pocket case with snap lock.

Part No.	Description
PRS59024	Fillet weld gauge



ProStar MIG Pliers

Multi-purpose tool designed for welding operations. Serves many purposes, saves time and increases productivity. Spring loaded for easy opening and closing. Perfect for removal and installation of contact tips and nozzles and removal of spatter from inside, outside and the nozzle end.

Part No.	Description
PRS71003	Regular



ProStar Rod Guard Storage Container

For everything you want to protect and keep dry: fasteners, first aid supplies, welding electrodes or flares. Threaded cap with long-lasting neoprene seal, high-impact polyethylene, holds up to 14" (35 cm) electrodes.

Part No.
PRS5A000



ProStar Tank Wrench

Heavy-duty forged wrench fits most valve stems and gas connections. Socket holes are deep, smooth and precisely sized for solid connection. 10-way wrench, 3/16" - 1-1/8" with 3/8" socket.

Part No.
PRS71013

ProStar™ Flint Lighters

**MULTI
SPARK**



**ProStar Lightnin' Bug
Torch Lighter**

Tested to 30,000 strikes, the *ProStar Lightnin' Bug* electric multi-spark discharge ignites all fuel gases quickly and easily. Never needs flints, batteries or charging. Zinc-plated body resists rust and corrosion.

Part No.	Description
PRS57018	Electric multi-spark torch lighter



**EXTREME
WEATHER**



ProStar Flint Lighters

ProStar rounded-file spark lighters have a strong, rigid frame. Triple-flint lighter has three large flints for dependable ignition under extreme weather conditions.



Single Flint Lighter
PRS57023

Triple Flint Lighter
PRS57024

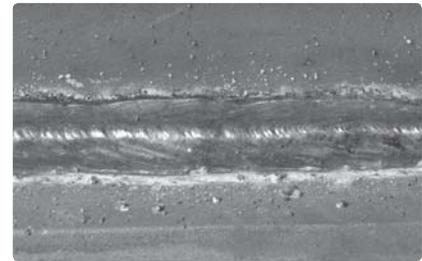
Replacement Flints
PRS57013/PRS57016

Part No.	Description
PRS57023	Single flint lighter
PRS57012	Single flint lighter (bulk)
PRS57013	Replacement single flint 5-pk
PRS57016	Replacement single flint 5-pk (bulk)
PRS57024	Triple flint lighter
PRS57014	Triple flint lighter (bulk)
PRS57015	Replacement triple flint
PRS57017	Replacement triple flint 4-pk

ProStar™ Chipping Hammers



ProStar Chipping Hammer Heads are Hardened to Precisely Controlled Temperatures for Durability & Strength



Chipping hammers clean the weld fillet

**GENUINE HICKORY
 OR COIL HANDLES**



Brush & Chisel
 Coil Handle
 PRS57003

Part No.	Description	Handle	Head Style
PRS57000	H Model	Coil	Cone & chisel
PRS57001	G Model	Coil	Cone & cross chisel
PRS57004	WH-20	Wood	Cone & chisel
PRS57005	WH-30	Wood	Cone & cross chisel
PRS57101	S-20	Coil	Cone & chisel
PRS57102	S-30	Coil	Cone & cross chisel
PRS57003	Dual	Coil	Brush & chisel

MicroBulk

Uninterrupted Gas Supply



Praxair's MicroBulk on-site gas delivery system is the cost-effective cylinder alternative for your business. By replacing cylinders with an on-site, uninterrupted supply, Praxair's MicroBulk delivery system maximizes profitability and improves efficiency – and it's from Praxair, the largest industrial gases company in North America.

High quality
Consistent high purity
Higher product yield
Uniform supply



Praxair's cryogenic truck fleet delivers across North America



Locked, tamper-resistant fill box for 24-hour deliveries



Telemetry system links directly to Praxair's monitoring center

CONVENIENCE

- Uninterrupted supply
- Praxair supply management —telemetry
- No cylinder handling or changeouts
- Reduced inventory management

INCREASED PRODUCTIVITY AND SAVINGS

- Eliminates downtime from cylinder changeouts
- No residual returned to supplier
- More efficient accounting and ordering

IMPROVED SAFETY

- Eliminates cylinder handling
- Tank filled through locked, tamper-resistant fill box
- High-pressure cylinders replaced by low-pressure tanks

SAFETY PRODUCTS

PROSTAR[®]

by Praxair

ProStar equipment and accessories for welding and workplace safety

Eye Protection

Passive & Auto-Darkening Helmets	E2 – E3
Safety Glasses	E4 – E5
Welding Goggles	E6 – E7
Replacement Lenses	E8 – E10
Visors	E10

Hand Protection

TIG & MIG Gloves	E11
Stick Welding Gloves	E12 – E13
Work & Drivers Gloves	E14

Welding Apparel

Leather Welding Jacket	E15
Leather Cape Sleeves & Bib	E16
Cotton Clothing & Welding Blankets	E17

Environmental Controls

Dust & Fume Collectors	E18 – E19
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ProStar™ Passive Welding Helmets

Reduce Neck Tension and Fatigue with *Prostar's* Lightweight Helmet Design
The ideal fit for working in tight spaces



Both *ProStar* welding helmets feature an extended front that increases throat protection against sparks, slag, & fumes

- Passive welding helmet
- Durable, lightweight design
- Quick and easy cover lens access
- Fully adjustable headgear
- Standard shade 10 filter plate and cover factory installed
- Two models to select from: 2 x 4 lift and 4 x 5 fixed
- Meets ANSI/CE standards
- Two-year warranty on all *ProStar* helmets



Part No.	Lift Front Helmet
PRS62101	2 x 4-1/4" (5 x 10.5 cm)



Part No.	Fixed Front Helmet
PRS62102	4-1/2 x 5-1/4" (11 x 13 cm)

ProStar™ Electronic Helmets

ProStar Autodarkening Helmets

- Lightweight, durable helmet with complete head and neck coverage
- Easy-to-replace front polycarbonate safety lens
- 4 solar powered sensors with battery backup
- TIG welding up to 5 amps
- Custom headgear with multiple adjustments
- Front and rear sweatbands

High-quality digital or analog filtering

Solar powered and battery backup—always “on” and ready to weld!



**DIGITAL
FILTERING**

Part No.	Fixed Shade 10 Helmet
PRS61510	2 × 4-1/4" (5 × 10.5 cm)
Standard Features	
<ul style="list-style-type: none"> • High-quality 60 mm analog filter with shades 7 – 13 • Variable sensitivity & delay settings, including grind • 9.60 in² (24 cm²) viewing area 	

Part No.	Variable Shade Black Helmet	Part No.	Variable Shade Blue Helmet
PRS61900	4-1/2 × 5-1/4" (11 × 13 cm)	PRS61901	4-1/2 × 5-1/4" (11 × 13 cm)
Standard Features			
<ul style="list-style-type: none"> • Simple-to-replace front polycarbonate safety lens • Eight sensitivity & delay settings, including grind • 12.60 in² (32 cm²) viewing area • Meets requirements of ANSI Z87+ and CAN/CSA Z94.3 • Backed by three-year warranty 			

ProStar Replacement Headgear

Part No.	Description
PRS62103	Welding helmet headgear
Standard Features	
<ul style="list-style-type: none"> • Three-position slider adjusts to the distance of the lens from your eyes to provide a custom fit • Vertical lock-in reduces helmet creeping • The removable comfort cradle is a pivoting head pad that conforms to any head for the highest degree of comfort • Crown strap adjustment allows the headgear to be raised or lowered for maximum comfort and performance 	



ProStar™ Eye Protection



Choosing the Correct Primary Eye Protection

1) Determine hazards in the work environment and the worker's application.

Impact Injury	<ul style="list-style-type: none"> • Safety eyewear with side shields or wrap-around design • Face shield with safety glasses or goggles • Direct vented goggles
Dust Irritation	<ul style="list-style-type: none"> • Direct or indirect vented safety goggles
Chemical Splash	<ul style="list-style-type: none"> • Indirect vented or non-vented safety goggles
Optical Radiation (IRUV)	<ul style="list-style-type: none"> • Cutting goggle or eye wear with shade 3.0 or 5.0 lens welding helmet with safety eyewear

2) Consider other environmental factors.

- Is the worker exposed to electrical hazards? If so, do not choose a metal frame spectacle.
- Is the worker exposed to sharp changes in temperature or humidity? If so, choose a lens type with an anti-fog coating, or a goggle with a foam lining for a better fit and seal.

Caution: Goggles do not provide the needed protections for arc welding. Always use a welding helmet, when arc welding.

ProStar™ Safety Glasses

ProStar Series 100 safety glasses



ProStar Series 100 safety glasses offer uncommon elegance in a value-priced product. Our glasses come with rubber tips for added comfort. Multiple lens and finish combinations, including IR5 lenses for cutting and brazing operations.

ProStar Series 400 safety glasses



Stylish ProStar Series 400 safety glasses look just like brand-name products that cost much more. Series 400 glasses also offer excellent everyday eye coverage. Choose lens and finish combinations, such as IR5 lenses and silver, blue, or red mirrors.

Tints	ProStar Safety Glasses Block up to 99.9% of UV rays*	Light Transmission
	CLEAR – Allows maximum light transmission. Suitable for indoor or low light conditions.	91%
	INDOOR/OUTDOOR – Offers protection from bright indoor lighting or some sunlight.	50%
	SMOKE – Typical sunglass tint for outdoor use. Excellent all-around outdoor use.	18%
	MOCHA – Excellent filter for blue light and outside sunlight conditions.	22%
	CHOCOLATE – Excellent filter for blue light and outside sunlight conditions.	22%
	SILVER MIRROR – An additional filter reducing outdoor glare. Ideal for bright sunlight conditions.	16%
	COLORED MIRROR – A mirror surface over a smoke lens will diminish glare and absorb reflective outdoor conditions. Ideal for bright sunlight conditions.	16%
	IR LENSES – For use when infrared protection is required. Consult your safety director to ensure that shade 3 or 5 are correct for your particular operation.	

*ProStar Series 100 & 400 safety glasses meet the T Z87 Rating.

ProStar™ Cutting Goggles



**FIXED
FRONT**



**LIFT
FRONT**



**SEALS &
SECURES**

Cutting goggles can protect your eyes from harmful sparks, metal splatter, and other debris. Using cutting goggles in the correct filter shade helps prevent optical radiation that can result in retinal burns, cataracts, or even permanent blindness. Meets ANSI Z97.1 standards.

ProStar 2 × 4-1/4" Goggles

This soft polyethylene frame goggle fits easily over prescription glasses. Adjustable elastic band keeps them firmly in place. Goggles supplied with a 2× 4-1/4" shade 5 lens protected by a clear cover lens. A magnifier lens may be placed inside the unit behind the colored protective lens.

Part No.	Style
PRS66001	Lift front
PRS66002	Fixed front

ProStar Eye Cup Goggles

Eye-cup-style protection for secure fit around facial contours. Seals off possible light leaks around eyes. Fits snugly to keep out dirt and light. Supplied with a 2" (50 mm) round, shade 5 lens protected by a clear cover lens.

Part No.	Style
PRS66004	Eye cup

ProStar™ Welding Goggles

ProStar Clear Goggles

Protection from flying debris and dust. Soft, rolled edge offers close fit and comfort. Indirect ventilation allows wide-angle vision, and protection from liquid and chemical splash entering the eyes.

Part No.	Style
PRS66007	Perforated



Important: Goggle Applications & Safety Tips

Read this section completely to correctly select the goggles needed for the intended job and work environment. Goggles do not provide unlimited face and eye protection. They do offer eye protection from hazards such as light impact from small particles, dust, sparks, and spatter. Shade rated lenses offer additional protection from injurious rays during cutting processes.

Goggles are effective for gas welding, flame cutting, preventing small particles from chopping or grinding, and similar applications. Goggle lenses and bodies are not unbreakable. They will not protect

against severe impact hazards.

Pitted or scratched lenses reduce vision and seriously reduce impact protection—replace immediately. Inspect frequently, and immediately replace worn or damaged parts. Clean only with mild soap and lukewarm water. Use no solvents. For further information, see the American National Standards Institute Standard ANSI-Z87.1 available from:

*American National Standards Institute
25 West 43rd Street, 4th floor
New York, NY 10036*

Elastic Goggle Cord

Part No.	Style
PRS66009	Replacement elastic stretch cord for welding goggles

ProStar™ Replacement Lenses

Safety, Cover, and Filter Lenses for Every Welding Process

Praxair offers a full line of *ProStar* safety, cover and filter lenses for the welding, cutting and metal working industries. All *ProStar* polycarbonate safety lenses and shaded filter lenses meet or exceed the optical and impact requirements of 2010 ANSI Z87.1 and CSA.

Arc Welding Lens Selector

Electric Process	Electrode Size in (mm)	Arc Current (Amps)	Minimum Protective Shade	Suggested Shade Number ⁽¹⁾ (comfort)
Shielded Metal Arc Welding (SMAW/Stick)	Less than 3/32 (2.4)	Less than 60	7	<i>not recommended</i>
	3/32 – 5/32 (2.4 – 3.9)	60 – 160	8	10
	5/32–1/4 (3.9 – 6.4)	160 – 250	10	12
	More than 1/4 (6.4)	250 – 550	11	14
Gas Metal Arc Welding (GMAW/MIG) Flux Cored Arc Welding (FCAW/MIG) Metal Cored Arc Welding	0.023 (0.58)	Less than 60	7	<i>not recommended</i>
	0.023 – 0.035 (0.58 – 0.89)	60 – 160	10	11
	0.035 – 0.045 (0.89 – 1.1)	160 – 250	10	12
	0.045 – 0.062 (1.1 – 1.6)	250 – 500	10	14
Gas Tungsten Arc Welding (GTAW/TIG)	0.020 – 0.040 (0.51 – 1.0)	Less than 50	8	10
	1/16 – 3/32 (1.6 – 2.4)	50 – 150	8	12
	3/32 – 5/32 (2.4 – 3.9)	150 – 500	10	14
Plasma Arc Cutting (PAC) Light ⁽²⁾ Medium Heavy		Less than 20	6	6 – 8
		20 – 100	8	9
		100 – 400	9	12
Air Carbon Arc Gouging	5/32 – 5/16 (3.9 – 7.9)	Less than 500	10	12
	5/16 – 3/4 (7.9 – 19.0)	500 – 1000	11	14

Shade numbers may be varied to suit individual needs.

Brazing & Soldering Lens Selector

Electric Process	Base Metal Thickness in (mm)	Suggested Shade Number ⁽¹⁾ (comfort)
Gas Welding Light Medium Heavy	Less than 1/8 (3.2)	4 or 5
	1/8-1/2 (3.2 – 13)	5 or 6
	More than 1/2 (13)	6 to 8
Oxy Acetylene Cutting Light Medium Heavy	Less than 1 (25)	3 or 4
	1 – 6 (25 – 150)	4 or 5
	More than 6 (150)	5 or 6

Shade numbers may be varied to suit individual needs.

¹ Shade numbers are given as a rule of thumb. It is recommended to begin with a shade that is too dark to see the weld zone. Then go to the next lighter shade which gives sufficient view of the weld zone without going below the minimum. In gas welding or oxygen cutting, where the torch produces a high yellow light, it is desirable to use a filter lens that absorbs the yellow or sodium line in the visible light of operation (spectrum).

² These values apply where the actual arc is clearly seen. Experience has shown that light filters may be used when the arc is hidden by the workpiece.

ProStar™ Cover & Filter Lenses

ProStar Cover & Safety Lenses

Clear cover lenses fit directly over your welding filter lens to protect from weld spatter.

Polycarbonate safety lenses are dual-purpose for use as both an inside cover lens, or an outside safety lens. ProStar polycarbonate lenses meet all impact and penetration test requirements to meet 2010 ANSI Z87.1 standards for a safety lens.

Material	50 mm	2 × 4-1/4"	4-1/2 × 5-1/4"
Cover Lens			
CR-39 poly bag	PRS64251	PRS64001	PRS64028
CR-39 paper sleeve		PRS64264	PRS64265
Glass	PRS64267	PRS64209	PRS64210
Safety Lens			
Polycarbonate		PRS64027	PRS64038



Cover & Safety Lenses



Magnifying Lenses

ProStar Magnifying Lenses

Fits behind the welding lens for better short-range vision. The higher the diopter number, the greater the magnification power. Size: 2 × 4-1/4". Available in glass or plastic.

Strength	Plastic Part No.	Glass Part No.
Diopter 0.75	PRS64200	PRS64000
Diopter 1.00	PRS64201	PRS64002
Diopter 1.25	PRS64202	PRS64003
Diopter 1.50	PRS64203	PRS64004
Diopter 1.75	PRS64204	PRS64005
Diopter 2.00	PRS64205	PRS64006
Diopter 2.25	PRS64206	PRS64007
Diopter 2.50	PRS64207	PRS64008
Diopter 3.00	PRS64208	PRS64009



Glass Filter Lenses

Gold Filter Lenses

ProStar Glass Filter Lenses

Hardened glass lenses provide UV and IR protection as well as durability and strength. Both a cover lens and a polycarbonate safety lens must be used on either side of the glass filter lens to ensure proper eye protection.

Shade	50 mm	2 × 4-1/4"	4-1/2 × 5-1/4"
Shade 3	PRS64241	PRS64010	PRS64239
Shade 4	PRS64252	PRS64011	PRS64240
Shade 5	PRS64253	PRS64012	PRS64029
Shade 6	PRS64254	PRS64013	PRS64211
Shade 7	PRS64255	PRS64014	PRS64030
Shade 8	PRS64256	PRS64015	PRS64031
Shade 9		PRS64016	PRS64032
Shade 10		PRS64017	PRS64033
Shade 11		PRS64018	PRS64034
Shade 12		PRS64019	PRS64035
Shade 13		PRS64020	PRS64036
Shade 14		PRS64021	PRS64037

ProStar Gold Filter Lenses

Designed to allow in more visible, natural light, which reduces eye fatigue and improves eye protection. Made of lightweight polycarbonate.

Shade	Glass 2 × 4-1/4"	Polycarbonate 2 × 4-1/4"	Polycarbonate 4-1/2 × 5-1/4"
Shade 8		PRS64257	PRS64262
Shade 9	PRS64258	PRS64212	PRS64216
Shade 10	PRS64259*†	PRS64213	PRS64217
Shade 11	PRS64260†	PRS64214	PRS64218
Shade 12	PRS64261†	PRS64215	PRS64219
Shade 13		PRS64246	PRS64249

*Shade 10 glass is also available in 4-1/2 × 5-1/4" (PRS64263).

† Available 2 × 4" silver filter lens coating helps reflect glare and heat from the welding arc. Shade 10 (PRS64024), shade 11 (PRS64025), shade 12 (PRS64026).

IMPROVED PROTECTION

ProStar™ OEM Style Replacement Lenses & Visors

OEM STYLE REPLACEMENT LENSES

Style/Part No.	Description
Miller® Elite Series Style Lenses	
PRS64220	Outside cover lens
PRS64223	Inside cover lens
Miller Pro-Hobby Series Style Lenses	
PRS64222	Outside cover lens
PRS64224	Inside cover lens
PRS64225	Fixed shade inside/outside lens
Miller Performance Series Style Lenses	
PRS64221	Outside cover lens
PRS64225	Inside cover lens
Miller XLi, XLix Series Style Lenses	
PRS64226	XLi outside cover lens
PRS64227	XLix outside cover lens
PRS64225	XLi, XLix inside cover lens
Homell® 9000 Style Lenses	
PRS64228	9000 series outside cover lens
PRS64229	9000X/9000XF inside cover lens
PRS64230	9000F/9000V inside cover lens
Homell APC Style Lenses	
PRS64231	Outside cover lens
PRS64232	Inside cover lens
Homell XL Style Lenses	
PRS64233	Outside cover lens
PRS64234	Inside cover lens
Jackson® Executive Style Lenses	
PRS64235	Inside cover lens
Jackson Nexgen Style Lenses	
PRS64236	Inside cover lens
Jackson Nitro Style Lenses	
PRS64238	Outside cover lens
PRS64237	Inside cover lens
Jackson Boss Style Lenses	
PRS64266	Outside cover lens

PROSTAR ADF COVER LENSES

Part No.	Lens Type	Dim (in)	Material	Pkg
PRS64269	Outside cover safety lens for autodarkening ADF	4.5 × 5.25	.040" polycarbonate	2 pcs
PRS64270	Safety lens for autodarkening ADF	4.5 × 5.25	.040" polycarbonate	5 pcs



**LIGHTWEIGHT
STRONG & FLEXIBLE**

ProStar Visors

Dependable, personal protection helps you work safely and productively.

Protect worker productivity with the exceptional clarity, durability, and dependable performance of ProStar visors, available in a wide variety of styles.

Part No.	Visor	Size	Material
PRSF4178C	Clear	8 × 16.5 × .040 (single)	PET-G
PRSF4178DG	Dark green	8 × 16.5 × .040	Polycarb
PRSF417805	Shade 5	8 × 16.5 × .040	Polycarb
PRSF29079	Clear 30-40	15.5 × 9 × .040	PET-G
PRSF29082	Light green	5.5 × 9 × .040	PET-G
PRSF29086	Dark green	15.5 × 9 × .040	Polycarb
PRSF29080	Shade 5 34-65	15.5 × 8 × .040	Polycarb
PRSF29084	Clear 915-60	15.5 × 9 × .060	PET-G
PRSF4199C	Clear	9.75 × 19 × .040	PET-G
PRSF4199DG	Dark green	9.75 × 19 × .040	Polycarb
PRSF4199-05	Shade 5	9.75 × 19 × .040	Polycarb
PRSF4118C	Clear	8 × 11.25 × .040	PET-G
PRSF4118DG	Dark green	8 × 11.25 × .040	Polycarb
PRSF29052	Clear 8154	15.5 × 8 × .040	PET-G
PRSF29078	Clear 8040	12 × 8 × .040	PET-G

ProStar™ TIG & MIG Welding Gloves

Genuine Top Grain
Feel and Dexterity

Kevlar® stitching for durability
and long-lasting performance



Part No.	Material	Sizes
PRS1328	Goatskin	S, M, L, XL

Top grain goatskin leather enhances feel and dexterity, while the smooth surface allows wire to pass freely.

- Seamless forefinger for better feel, thumb strap reinforcement
- Flared 4" cuff for added protection
- Lock stitched with *Kevlar* thread for added strength

Part No.	Material	Sizes
PRS1355	Cowhide	S, M, L, XL

Cowhide MIG gloves made from top grain cowhide with *Kevlar* stitching.

- Wing thumb
- Seamless forefinger for enhanced feel
- Excellent all-around handling
- 4" cuff for added protection

GOATSKIN TIG WELDING

Generally cut very thin, allowing for extremely good dexterity and feel. Excellent abrasion resistance for its weight. Smooth surface allows wire to flow freely in TIG welding process.

COWHIDE TIG & MIG WELDING

Top grain offers best durability and ruggedness. Split version is used for thinner applications and cuffs. Economical and long lasting.

ProStar™ Stick Welding Gloves

Premium Side Split Cowhide, Insulated



Part No.	Description	Sizes
PRS1250	Premium cowhide insulated glove	M, L, XL

More durable 14" blue/pearl side split cowhide. Insulated with cotton and foam lining. Double reinforced thumb.

**LOCK STITCHED
WITH KEVLAR® THREAD
FOR ADDED STRENGTH!**

**WELTED FINGERS
PROTECT STITCHING**

Side Split Cowhide

- Side split cowhide is taken from the side of the animal and offers the least fatigue. This ultra premium leather portion of the hide is much more uniform—and offers the greatest protection—because it has fewer scars and weak fibers.



Part No.	Description
PRS1080	Durable cowhide insulated glove

Durable, blue 14" side split cowhide. Insulated with cotton/foam lining and reinforced thumb.

Premium Side Split Cowhide, Cotton Lined



Part No.	Description
PRS1200	Premium cowhide cotton-lined glove

More durable 14" bourbon-brown premium side split cowhide. Double reinforced thumb. Pull tab for ease of use and added protection.



Part No.	Description
PRS1100	Premium cowhide cotton-lined glove

More durable 14" blue premium side split cowhide. Cotton lined for comfort.



Part No.	Description
PRS1050	Premium cowhide cotton-lined glove

More durable 14" bourbon-brown premium side split cowhide, cotton lined for comfort.

ProStar™ Stick Welding Gloves → continued

Standard Select Shoulder Split Cowhide, Insulated



Part No.	Description
PRS1020	Cowhide insulated glove

14" blue shoulder split cowhide stick gloves. Insulated with cotton/foam lining, double reinforced thumb.

**DURABLE
COMFORTABLE
MORE ECONOMICAL**

Shoulder Split Cowhide

- This material is lower in quality because it comes from the neck and shoulder of the hide, where more movement takes place, stressing the leather. This economical leather has more visible texture differences and less fiber density.



Part No.	Description
PRS1018	Durable cowhide insulated glove

Durable, 14" blue shoulder split cowhide, insulated with cotton/foam lining for added heat protection, single reinforced thumb, welted fingers protect stitching.

Standard/Economy Shoulder Split Cowhide, Cotton Lined



Part No.	Description
PRS1010	Cotton-lined cowhide glove

Durable, 14" russet select shoulder split cowhide. Cotton lined for comfort. Reinforced thumb. Welted fingers protect stitching.



Part No.	Description
PRS1005	Cotton-lined cowhide glove

Durable, 14" black select shoulder split cowhide. Cotton lined for comfort. Welted fingers protect cotton stitching.



Part No.	Description
PRS1000	Grey glove
PRS1001	Brown glove

Economical, 14" standard shoulder split cowhide stick gloves, cotton lined for comfort, welted fingers protect stitching.

ProStar™ Work, Drivers Gloves



**TOP GRAIN
COWHIDE**

ProStar Drivers Gloves

Part No.	Description	Sizes
PRS1422	Drivers glove	S, M, L, XL

“B” grade pearl top grain cowhide, gunn cut, unlined, straight thumb for best grip, double stitching on forefinger provides extra strength.



ProStar Work Gloves

Part No.	Description
PRS1505XC	Cowhide single-palm glove

Shoulder split cowhide palm for additional protection and durability, canvas back, gunn-cut rubberized 2-1/2" safety cuff. Lock stitched.



**DOUBLE
PALM**

ProStar Work Gloves

Part No.	Description
PRS1515XC	Cowhide double-palm glove

Shoulder split cowhide palm and knuckle strap for additional protection and durability. Rubberized 4-1/2" safety cuff. Lock stitched, canvas back, gunn cut.



ProStar Hi Dex Work Gloves

Part No.	Description	Sizes
PRS6901	ProStar Hi Dex Grip Gloves	M – 2XL

Grip features neoprene hook and loop wrist, 4-way stretch spandex back, synthetic leather palm, padded knuckle, terry cloth thumb, heavy-duty lycra fourchettes, and silicone printed palm and fingertip patches.



ProStar Hi Dex Work Gloves

Part No.	Description	Sizes
PRS6902	ProStar Hi Dex Goatskin Gloves	M – 2XL

Heavy-duty, top grain goatskin glove is a natural fitting glove for general duty tasks. It features top-grain gold/pearl reinforcements on the palm and thumb saddle, as well as reinforced fingertips for increased protection.



**VISIT A PRAXAIR
RETAIL STORE**

With 300 outlets, chances are you'll find a Praxair store near you.

ProStar™ Premium Welding Jacket



ProStar Premium, All-Leather Cowhide Welding Jacket

Our premium brown side split cowhide welding jacket is specially tanned for added heat resistance. This durable cowhide even helps hide dirt and grease. Raglan sleeves enable better overall movement, and are satin-lined for easy garment removal. Every seam is Kevlar® stitched. Features an inside pocket with adjustable snap collar and sleeves.



Part No.	Jacket Length	Sizes
PRS3826size	26" (66 cm)	M, L, XL, 2X
PRS3830size	30" (76 cm)	M, L, XL, 2X, 3X, 4X

Size	Inches	Centimeters
Medium	40 – 42	101 – 106
Large	44 – 46	111 – 116
X Large	48 – 50	121 – 127
2X Large	52 – 54	132 – 137
3X Large	56 – 58	142 – 147
4X Large	60 – 62	152 – 157

Why specify leather for your welding garment?

- Naturally fire resistant
- Extremely durable
- Comfortable
- Economical for its protection and features

ProStar™ Cape Sleeves & Bibs



Adjustable snap collar

SATIN-LINED SHOULDERS

Anodized black button snaps

Prevent against arc flashback

Kevlar® stitched seams

Made of premium side split cowhide

Specially tanned for greater heat resistance to protect you from sparks and spatter

ProStar cape sleeves and bibs feature premium side split cowhide.

ProStar Leather Cape Sleeve

ProStar Leather Bib

Part No.	Description	Sizes
PRS3821size	Premium dark brown cowhide cape sleeve	M, L, XL, 2X, 3X

Part No.	Description	Length
PRS3820size	Premium dark brown cowhide bib	20" (50 cm)

Premium dark brown side split cowhide cape sleeve. Designed for welders who need protection on the arms, shoulders, and top half of the chest, with increased ventilation on back. Raglan sleeve for better movement, satin-lined shoulders/sleeves allow for easy on/off.

Premium dark brown side split cowhide, designed to work with ProStar PRS3821 cape sleeve, provides protection from chest to waist, or below, depending on size and snap attachment. Includes heavy duty cotton strap with adjustable side release buckle for easy on/off.

ProStar™ Jackets, Sleeves, Caps, Blankets



ProStar FR Cotton Jacket

Part No.	Size	Jacket Length
PRS6230	M, L, XL, 2X, 3X	30" (76 cm)

Cool, comfortable and washable. Offers protection from sudden flame exposure, light welding and sparks. Made from flame-retardant, 9 oz., 100% cotton Westex Proban FR7A. 30" length with snap fasteners.



ProStar FR Cotton Sleeves

Part No.	Size	Length
PRS6218	Elastic, one size	18" (45 cm)

9 oz., green, flame-retardant, 100% cotton Westex Proban FR7A cotton sleeves. Offers protection from sudden flame exposure, light duty welding, and sparks. Standard internal elastic at both ends. Washable.



ProStar Welding Caps

Part No.	Size
PRS6B000	Elastic, one size
PRS6B001	Small
PRS6B002	Medium
PRS6B003	Large
PRS6B004	XLarge

Fits beneath welding helmets and face shields to protect the top of the head from debris and sparks. Made of 100% cotton.

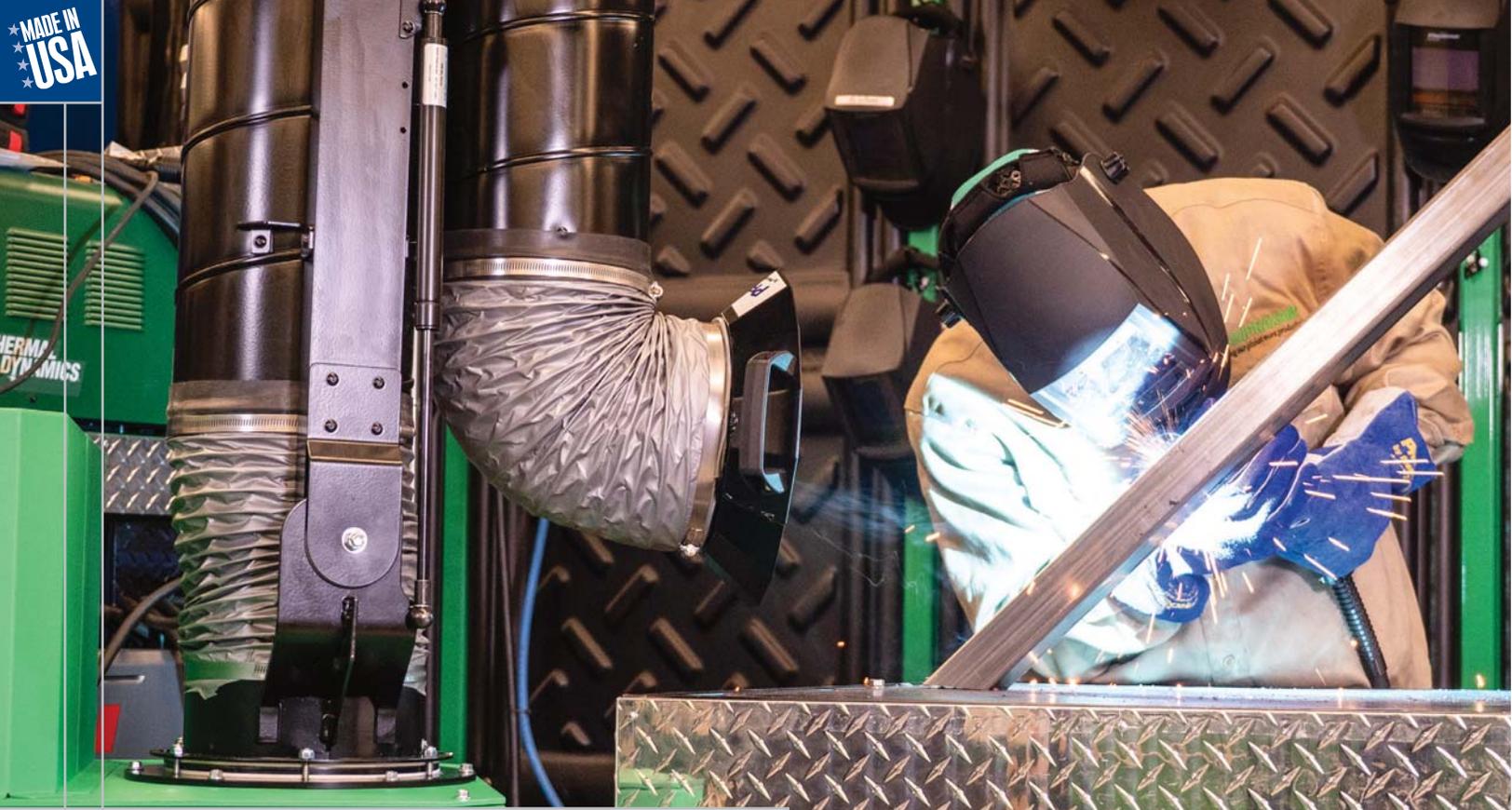


ProStar Welding Blankets

Part No.	Size	Thickness
PRS590B66	6 x 6 ft (1.8 x 1.8 m)	.034" (.86 mm)
PRS590B68	6 x 8 ft (1.8 x 2.4 m)	.034" (.86 mm)

Medium duty, 24 oz., acrylic-coated fiberglass, 1,000 °F (537 °C) temperature rating, grommets on all sides with 18" centers, sewn with fiberglass thread, coated to allow sparks and spatter to roll off more easily.

ProStar™ Portable Dust & Fume Collectors


 MADE IN USA

It's Time to Clear the Air

Praxair's *ProStar*™ portable dust and fume collectors can help you clear the air at a very affordable price

Applications:

- Small manufacturing, light to medium fabrication
- Maintenance and repair shops
- Schools and training facilities
- SMAW, FCAW, GMAW, and GTAW processes

ProStar Portable Dust & Fume Collectors

For a welding facility owner, devoting attention and resources to identifying and reducing welding fume exposure can be time-consuming and costly.

Praxair's new *ProStar* portable fume collectors provide an affordable and easily deployed solution that can help you protect your indoor shop environment and your workers.

Our portable *ProStar* units support multiple filter options such as MERV 11, MERV 16, and PTFE/E11, and are suitable for use while welding on a variety of materials.

Praxair's pricing creates exceptional value compared to competitive systems. In fact, *ProStar* portable fume collectors provide an extensive

standard-feature set. Features include 1,200 cfm airflow, 1.5 hp motor with ball bearings, a pre-assembled fume arm (enabling setup in under fifteen minutes), a circuit breaker protecting the motor and all circuitry, welded 14-gauge shell construction, and a base unit that is manufactured in the U.S.A.

ProStar™ Portable Dust & Fume Collectors

Available Options:

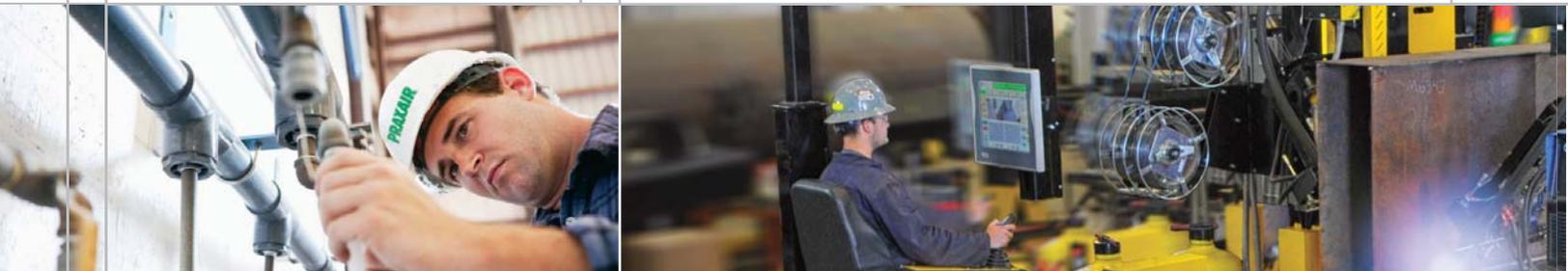
- HEPA after-filter
- Extended caster wheels
- Lifting lugs
- Alternative intake for confined spaces



**ALWAYS SPECIFY PROSTAR™
PREMIUM REPLACEMENT
CARTRIDGE FILTERS**

Specifications	PRS1200-810-802	PRS1200-810-NAN	PRS1200-810-PTF
Assembled 8 in × 10 ft articulated fume arm with external aluminum support	✓	✓	✓
Airflow: 1,200 cfm at 4" wg	✓	✓	✓
Sound pressure level: 75 db at 5 feet	✓	✓	✓
120 VAC, 15 A operation with 25' cord	✓	✓	✓
Push-to-reset circuit breaker	✓	✓	✓
1.5 hp Baldor ball bearing motor	✓	✓	✓
2 in pre-filter spark arrestor	✓	✓	✓
Direct drive backward inclined steel blower wheel	✓	✓	✓
LED light with switch at end of arm	optional	optional	optional
Air Filter Rating	MERV 11 226 sf 80/20 media	MERV 15 200 sf nano-fiber media	E11 (HEPA) 195 sf PTFE
Suitable for use when welding these metals:	Carbon Steel	Carbon/galvanized steels Aluminum	Carbon, galvanized and stainless steels Aluminum
Filter lock with safety latch	✓	✓	✓
Manual pulse filter cleaning	✓	✓	✓
Minihelic® filter static pressure gauge	✓	✓	✓
Locking casters	✓	✓	✓
Machine weight	290 lbs	290 lbs	290 lbs

**SAFETY
PRODUCTS**



GASES

- Acetylene
- Argon
- Carbon Dioxide
- Cutting Gases
- Dry Ice
- Electronic Gases
- Emission Gases
- Helium
- Hydrogen
- Laser Gases
- Medical Gases
- Nitrogen
- Oxygen
- Propylene
- Specialty Gases
- Welding Mixes

SAFETY

- Area Protection
- Fall Prevention
- Fume Exhaust
- Gloves & Sleeves
- Goggles & Lenses
- Hard Hats
- Hearing Protection
- Protective Clothing
- Respirators
- Safety Curtains & Screens
- Safety Glasses
- Welding Helmets

INDUSTRIAL EQUIPMENT

- Beveling & Drilling
- Fixturing Equipment
- Folding Systems
- Manipulators
- Plate Cutting Machines
- Pipe Stands & Rollers
- Positioners
- Press Brakes
- Robotic Systems
- Saws & Shears
- Ventilation Systems
- Vessel Turning Rolls

FILLER METALS

- Aluminum Wire & Rod
- Carbons
- Hardfacing Electrodes
- Maintenance Alloys
- Nickel Electrodes
- Silver Alloys & Fluxes
- Solders & Paste
- Stainless Steel Wire & Rod
- Tungsten Electrodes
- Welding Rod & Wire

WELDING & CUTTING

- Carbon Arc Torches
- Cut Off Wheels
- Cutting Torches & Tips
- Cylinder Carts & Brackets
- Engine Drives
- Grinding Wheels
- Hand Tools
- Hoses & Cable
- MIG Guns & Equipment
- Plasma Arc Equipment
- Regulators & Gauges
- Stick Welder
- Specialty Abrasives
- TIG Torches & Equipment
- Welding & Cutting Outfits
- Welding Chemicals
- Welding Accessories
- Wire Brushes & Wheels

SPECIALTY GASES & EQUIPMENT

- Cryogenic Products
- Cylinder Handling Apparatus
- Cylinders/Containers
- Dilution Systems
- Flow Devices, Blenders
- Gas Delivery Systems
- Gas Generators
- Gas Mixtures
- Leak Detection Products
- Pure Gases
- Purifiers/Filters
- Regulators



CNC Automated
Cutting

Metal
Forming

Material
Handling

Welding
Automation

Environmental
Controls



Portable Microbulk

Portable productivity for construction, shipbuilding and heavy fabrication

FEATURES:

- Convenience
- Productivity
- Quality
- Safety

Praxair's new Praxair-On-Demand (POD™), *Portable Microbulk Gas Delivery System*, provides construction companies, shipbuilders and heavy fabricators with an alternative to facilities and jobsites filled with single cylinders, cylinder packs and portable liquid vessels. A complete gas supply system that can be moved while full and works where you work – it helps improve productivity, boost efficiency and reduce costs by reducing cylinder handling and change-outs. Innovative and flexible, the POD System ensures a high purity gas supply that's convenient and dependable.

Industrial Gases

PRAXAIR
Making our planet more productive™



Praxair knows metal fabrication. Industrial Gases | Cutting and Welding Equipment

Pure Gases & Gas Blends

For well over a hundred years, metal fabricators around the world have relied on Praxair's high-purity gases, specialty gases, and gas blends in cylinders and cryogenic bulk tanks.

Welding Equipment & Industrial Supplies

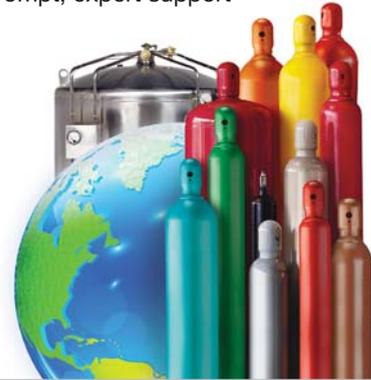
Praxair's ProStar heavy-duty fabrication equipment and welding products are manufactured to the highest standards by some of the leading names in the business.

Increase productivity. Cut costs.

Praxair's StarSolver® Productivity Enhancement Program helps our customers increase productivity, improve product quality, and reduce the cost of overhead.

Customer Service & Support

It's easy and smart to do business with Praxair. Ordering and delivery is efficient and reliable. For sales and on-site service, our productivity specialists provide prompt, expert support throughout the USA and Canada.



Praxair Customer Service:
1-800-225-8247



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Praxair, Inc.
10 Riverview Dr.
Danbury, CT 06810
www.praxairwelding.com
info@praxair.com

Telephone:
1-800-225-8247