

<b>APPLICATIONS</b>	• Commercial Truck & Trailer • Heavy Equipment • General Manufacturing & Fabrication • Pipeline • Rail • Ship
<b>PROCESSES</b>	• MIG (GMAW) Welding
<b>RATED OUTPUT</b>	• 300A • 400A
<b>WIRE SIZE</b>	• 0.030" - 5/64" (0.8 mm-2.0 mm)
<b>DUTY CYCLE</b>	• 60% with Mixed Gases

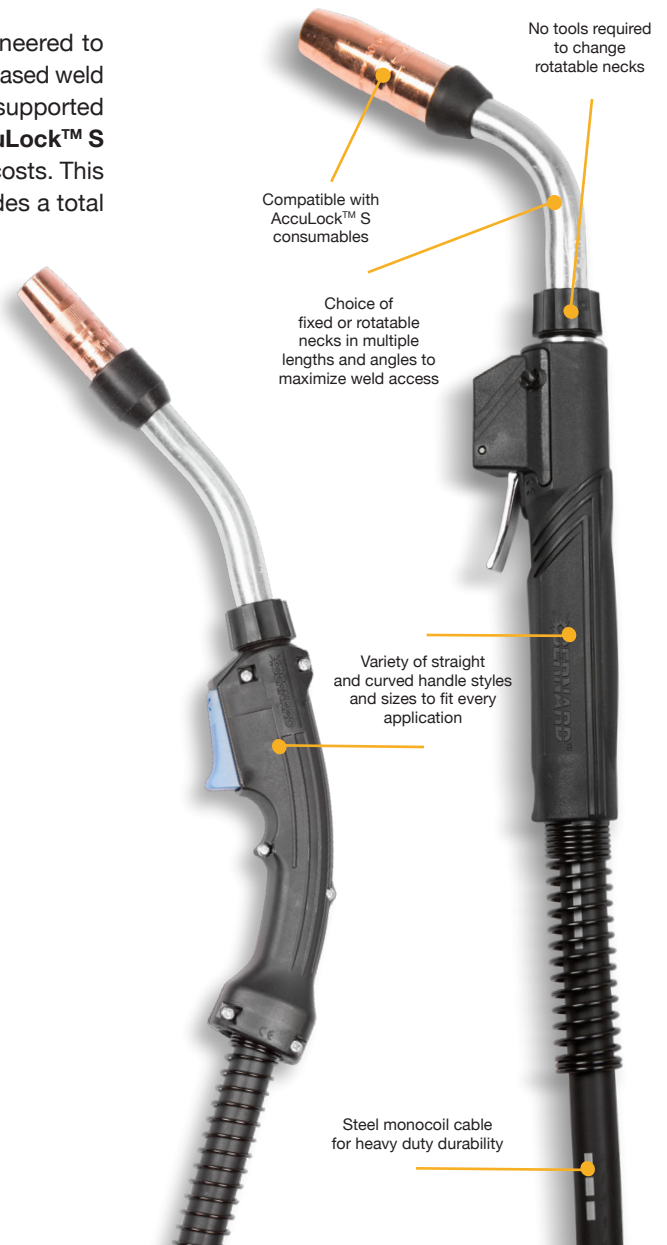
## ENGINEERED FOR SIMPLICITY. BUILT FOR DURABILITY.

The Bernard® S-Gun™ semi-automatic air-cooled MIG guns are engineered to accommodate each welder's neck, handle and trigger preferences for increased weld access, comfort and productivity. Plus, these gun variations can all be supported with a common line of high-performing consumables — **Featuring AccuLock™ S consumables** — which simplifies ongoing maintenance and inventory costs. This unique combination of gun configurability and simplified support provides a total cost of ownership that's difficult to match.

- Aluminum armored necks, available as either fixed or rotatable, withstand abuse and offer outstanding heat dissipation
  - Compatible with your choice of AccuLock™ S consumables on any front handle style
  - AccuLock™ S liners, Bernard® conventional liners or QUICK LOAD® liners
  - Available in 300 and 400 amp models
  - Choose your desired cable length: 15, 20 or 25 feet.
  - Available wire size ranges from 0.030" (0.8 mm) to 5/64" (2.0 mm)
  - Straight rear strain relief with Lifetime Warranty now standard
- ONE YEAR WARRANTY**

**CONFIGURE YOUR MIG GUN ONLINE**

**FIND REPLACEMENT PARTS LIST**



# CABLE OPTIONS

[CONFIGURABLE OPTION ONLINE]

## STEEL MONOCOIL CABLE

### Details

The steel monocoil cable offers extra structural integrity through the steel monocoil inner tube which gives it superior pinch resistance and helps to ensure gas flow and wire feedability. The steel monocoil cable is ideal for use in welding applications that require longer gun cables that may be frequently looped or stretched around corners to the point of pinching.

### Amperages

300 amp  
400 amp

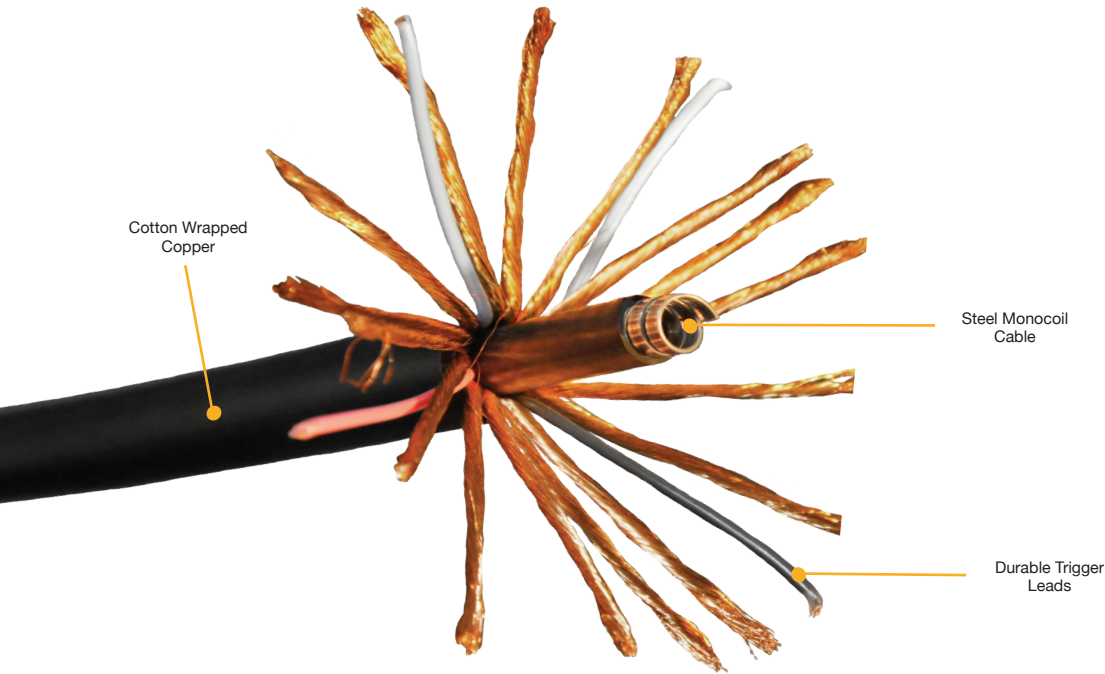
### Cable Lengths

15 ft (4.57 m)  
20 ft (6.10 m)  
25 ft (7.62 m)

### Handle Styles




**O Series**  
Curved handle  
Small curved handle (300A/400A)

**T Series**  
Straight handle (300A/400A)



## HANDLE & TRIGGER OPTIONS

[CONFIGURABLE OPTION ONLINE]

Features	O Series Small Curved	O Series Curved	T Series Straight
			
Amperage	300, 400	400	300, 400
Style	Curved	Curved	Straight
Neck	Fixed or rotatable	Fixed or rotatable	Fixed or rotatable
Trigger	Standard	Standard	Standard Locking

# NECK OPTIONS

[CONFIGURABLE OPTION ONLINE]

## FIXED NECKS

### T Series Straight Handles

<b>305-45</b>	45° short	<b>405-45</b>	45° medium	<b>505-45</b>	45° long
<b>305-60</b>	60° short	<b>405-60</b>	60° medium	<b>505-60</b>	60° long

## ROTATABLE NECKS

### O Series Curved Handles and T Series Straight Handles

<b>QT2-45</b>	45° short	<b>QT3-45</b>	45° medium	<b>QT5-45</b>	45° long
<b>QT2-60</b>	60° short	<b>QT3-60</b>	60° medium	<b>QT5-60</b>	60° long

## NECK INSULATORS

Users should be aware that neck insulator replacement for Bernard® S-Gun MIG guns is based on several variables including:

- Gun amperage
- Neck and handle combination
- Consumables series

Use the chart on the right to select the appropriate replacement neck insulator.

Neck & Handle	Consumables	300A	400A
		Insulator Part Number	
<b>Fixed necks for T Series straight handles</b>	AccuLock™ S	402-11	402-11
<b>Rotatable necks for O and T Series handles</b>	AccuLock™ S	4623R	4623R

# CONSUMABLES

[CONFIGURABLE OPTION ONLINE]

## ACCULOCK™ S CONSUMABLES

SEE ACCULOCK™ S CONSUMABLES SPEC SHEET (SP-ALS) FOR MORE INFORMATION AND ADDITIONAL OPTIONS THAT CAN BE ORDERED SEPARATELY



### Contact Tips

<b>T-A023CH</b> 0.023" (0.6 mm)	<b>T-A045CH</b> 0.045" (1.2 mm)	<b>T-A078CH</b> 5/64" (2.0 mm)
<b>T-A030CH</b> 0.030" (0.8 mm)	<b>T-A052CH</b> 0.052" (1.4 mm)	<b>T-A094CH</b> 3/32" (2.4 mm)
<b>T-A035CH</b> 0.035" (0.9 mm)	<b>T-A062CH</b> 1/16" (1.6 mm)	<b>T-A109CH</b> 7/64" (2.8 mm)
<b>T-A039CH</b> 0.039" (1.0 mm)	<b>T-A072CH</b> 0.072" (1.8 mm)	<b>T-A125CH</b> 1/8" (3.2 mm)

### Tapered Contact Tips

<b>TT-A023CH</b> 0.023" (0.6 mm)	<b>TT-A039CH</b> 0.039" (1.0 mm)	<b>TT-A052CH</b> 0.052" (1.4 mm)
<b>TT-A030CH</b> 0.030" (0.8 mm)	<b>TT-A045CH</b> 0.045" (1.2 mm)	<b>TT-A062CH</b> 1/16" (1.6 mm)
<b>TT-A035CH</b> 0.035" (0.9 mm)		

### Nozzles - Large

<b>N-A3400C</b> 3/4" bore, flush, copper	<b>N-A3414B</b> 3/4" bore, 1/4" recess, brass	<b>N-A5814C</b> 5/8" bore, 1/4" recess, copper
<b>N-A3418C</b> 3/4" bore, 1/8" recess, copper	<b>N-A5800C</b> 5/8" bore, flush, copper	<b>N-A5818B</b> 5/8" bore, 1/8" recess, brass
<b>N-A3414C</b> 3/4" bore, 1/4" recess, copper	<b>N-A5818C</b> 5/8" bore, 1/8" recess, copper	<b>N-A5814B</b> 5/8" bore, 1/4" recess, brass
<b>N-A3418B</b> 3/4" bore, 1/8" recess, brass		

### Nozzles - Small

<b>NS-A5800C</b> 5/8" bore, flush, copper	<b>NS-A1200B</b> 1/2" bore, flush, brass	<b>NST-A3800B</b> 3/8" bore, flush, brass
<b>NS-A5818C</b> 5/8" bore, 1/8" recess, copper	<b>NS-A1218B</b> 1/2" bore, 1/8" recess, brass	<b>NST-A3818B</b> 3/8" bore, 1/8" recess, brass
<b>NS-A5800B</b> 5/8" bore, flush, brass	<b>NS-A1218C</b> 1/2" bore, 1/8" recess, copper	<b>NST-A38XTB</b> 3/8" bore, 1/8" ext., brass
<b>NS-A5818B</b> 5/8" bore, 1/8" recess, brass		<b>NST-A1218B</b> 1/2" bore, 1/8" recess, brass

### Diffusers

FOR USE WITH ACCULOCK™ S LINERS (FRONT-LOADING)

<b>D-A1</b> Large, brass, thread-on	<b>DS-A1</b> Small, brass, thread-on
<b>D-A2</b> Large, brass, slip-on	<b>DS-A2</b> Small, brass, slip-on

### Diffusers

FOR USE WITH BERNARD® CONVENTIONAL LINERS ON MILLER® PACKAGES (REAR-LOADING)

<b>D-A1-C</b> Large, brass, thread-on	<b>DS-A1-C</b> Small, brass, thread-on
<b>D-A2-C</b> Large, brass, slip-on	<b>DS-A2-C</b> Small, brass, slip-on

## ACCULOCK™ S LINERS [FRONT-LOADING]

SEE ACCULOCK™ S CONSUMABLES SPEC SHEET (SP-ALS) FOR MORE INFORMATION AND ADDITIONAL OPTIONS THAT CAN BE ORDERED SEPARATELY

### 15' (4.57 m) Gun Lengths

<b>LA1A-15</b> for 0.023" - 0.030" wire	<b>LAD4A-15</b> for 0.045" - 1/16" wire	<b>LA7A-15</b> for 3/32" wire
<b>LA2A-15</b> for 0.030" - 0.035" wire	<b>LA6A-15</b> for 5/64" wire	<b>LA8A-15</b> for 7/64" - 1/8" wire
<b>LAD3A-15</b> for 0.035" - 0.045" wire		

### 20' (6.10 m) Gun Lengths

<b>LA1A-20</b> for 0.023" - 0.030" wire	<b>LAD4A-20</b> for 0.045" - 1/16" wire	<b>LA7A-20</b> for 3/32" wire
<b>LA2A-20</b> for 0.030" - 0.035" wire	<b>LA6A-20</b> for 5/64" wire	<b>LA8A-20</b> for 7/64" - 1/8" wire
<b>LAD3A-20</b> for 0.035" - 0.045" wire		

### 25' (7.62 m) Gun Lengths

<b>LA1A-25</b> for 0.023" - 0.030" wire	<b>LAD4A-25</b> for 0.045" - 1/16" wire	<b>LA7A-25</b> for 3/32" wire
<b>LA2A-25</b> for 0.030" - 0.035" wire	<b>LA6A-25</b> for 5/64" wire	<b>LA8A-25</b> for 7/64" - 1/8" wire
<b>LAD3A-25</b> for 0.035" - 0.045" wire		

## ACCULOCK™ S POWER PINS AND POWER PIN CAPS

	Power Pin	Power Pin Cap	Cap Washer Color	Compatible Wire Size
<b>Miller®</b>	2200206	2200351	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		2200352	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
		2200353	White	0.035" (0.9 mm) - 0.45" (1.2 mm)
		2200354	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200355	Blue	5/64" (2.0 mm)
	2200207	2200356	Grey	3/32" (2.4 mm)
		2200357	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)
<b>Lincoln®</b>	2200210	2200309	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		2200310	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
		2200311	White	0.035" (0.9 mm) - 0.45" (1.2 mm)
		2200312	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200313	Blue	5/64" (2.0 mm)
	2200211	2200314	Grey	3/32" (2.4 mm)
		2200315	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)
<b>Tweco® #4</b>	2200150	2200281	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		2200282	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
		2200283	White	0.035" (0.9 mm) - 0.45" (1.2 mm)
		2200284	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200285	Blue	5/64" (2.0 mm)
	2200151	2200286	Grey	3/32" (2.4 mm)
		2200287	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)
<b>Euro</b>	2200359 & 2200273	2200337	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		2200338	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
		2200339	White	0.035" (0.9 mm) - 0.45" (1.2 mm)
		2200340	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200341	Blue	5/64" (2.0 mm)
		2200342	Grey	3/32" (2.4 mm)
		2200343	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)

IMPORTANT NOTE: TO CONVERT ANY BERNARD® BTB MIG GUN WITH A MILLER®, LINCOLN®, TWECO® #4, TWECO® #5, AND EURO POWER PIN, PLEASE FOLLOW THE ABOVE CHART TO IDENTIFY THE POWER PIN AND CAP NEEDED FOR THE ACCULOCK™ S CONSUMABLES SYSTEM. NEED EXTRA SET SCREWS? ORDER 2300023P FOR A PACKAGE OF (10) 1/4-20 X 3/16", LONG CUP POINT SET SCREWS.

## BERNARD® CONVENTIONAL LINERS (REAR-LOADING)

SEE BERNARD® CONVENTIONAL LINER SPEC SHEET ([SP-L](#)) FOR MORE INFORMATION

### 15' (4.57 m) Gun Lengths

<b>L1A-15</b>	for 0.023" - 0.030" wire	<b>L4A-15</b>	for 0.045" - 1/16" wire**
<b>L2A-15</b>	for 0.030" - 0.035" wire	<b>L6A-15</b>	for 5/64" wire
<b>L3A-15</b>	for 0.035" - 0.045" wire*		

### 25' (7.62 m) Gun Lengths

<b>L1A-25</b>	for 0.023" - 0.030" wire	<b>L4A-25</b>	for 0.045" - 1/16" wire**
<b>L2A-25</b>	for 0.030" - 0.035" wire	<b>L6A-25</b>	for 5/64" wire
<b>L3A-25</b>	for 0.035" - 0.045" wire*		

## CONVENTIONAL LINERS FOR ALUMINUM WIRE (REAR-LOADING)

### 15' (4.57 m) Gun Lengths

<b>415-35-2</b>	Steel wrapped nylon liner for 0.035" - 0.045" wire	<b>415-116-2</b>	Steel wrapped nylon liner for 0.045" - 1/16" wire
<b>415-45-03</b>	Polymer liner for 0.035" - 3/64" wire	<b>415-116-23</b>	Polymer liner for 3/64" - 1/16" wire

### 25' (7.62 m) Gun Lengths

<b>415-45-04</b>	Steel wrapped nylon liner for 0.035" - 0.045" wire
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### Jump Liners

<b>415-25</b>	Bronze jump liner for polymer liner
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\*STANDARD LINER FOR 0.035" & 0.045" GUNS

\*\*STANDARD LINER FOR 1/16" GUNS

# POWER PINS

[CONFIGURABLE OPTION ONLINE]

SEE BERNARD® POWER PIN SPEC SHEET ([SP-PPK](#)) FOR MORE INFORMATION

## MILLER®

1880259M Power pin kit  
2200137 Power pin (Includes O-rings)  
214-9 for 7/64" - 1/8"

### AccuLock™ S Pins and Caps

PLEASE SEE PAGE 5

## LINCOLN®

1880259L Power pin kit  
214-2-1 Power pin

### Acculock™ S Pins and Caps

PLEASE SEE PAGE 5

## EURO

1880259E Power Pin Kit  
5060T Euro Block Assembly  
4816 Adaptor Nut

## TWECO® #4

1880259T4 Power pin kit  
214 Power pin (Includes O-rings)

### AccuLock™ S Pins and Caps

PLEASE SEE PAGE 5



## BERNARD® JUMP LINERS

[INCLUDED WITH AND TO BE USED WITH ROTATABLE NECK OPTION GUNS]

Jump liners replace only the most commonly worn and clogged liner area to reduce the amount of time a gun is offline and to minimize inventory. These jump liners enable quick and easy neck change-out so guns can be easily adapted to fit multiple applications.

The Bernard® Jump Liners connect with conventional liners at the base of the neck and run through the most commonly worn area up to the contact tip.

*For use with Rotatable Neck option guns.*

<b>QJL-3545</b>	0.035" - 0.045" (0.9 mm - 1.2 mm)	14"
<b>QJL-116</b>	1/16" (1.6 mm)	14"

NOTE: NOT COMPATIBLE WITH ACCULOCK™ S FRONT LOADING DUAL-LOCKED LINERS  
SEE BERNARD® JUMP LINER SPEC SHEET (SP-JL) FOR MORE INFORMATION



## FLEX NECKS

### FOR O SERIES HANDLES CONFIGURED WITH ROTATABLE NECKS

Save labor and time — change, rotate or bend the flex neck to your desired angle without tools. The connection improves conductivity for better weld quality and lessens heat to increase operator comfort. Available in 6" and 8" lengths and is easily removable for jump liner changover.

<b>QT-F-6</b>	6" length
<b>QT-F-8</b>	8" length
<b>1680085</b>	Rotatable adaptor (required for use with T Series handles only)



# ACCESSORIES

[NOT CONFIGURABLE, PLEASE ORDER SEPARATELY]

## NECK GRIPS



### FOR CURVED HANDLE MIG GUNS

This high temperature rubber sleeve for curved handle MIG guns provides the operator with improved accuracy and reduced heat exposure. The Q-Neck grip is designed to help users hold the neck in a steady position, improve overall weld quality and reduce operator fatigue.

**1840067**



### FOR T SERIES HANDLES

This neck grip features a heavy duty metal spring for straight handle MIG guns configured with fixed necks. Designed to reduce heat exposure and help users hold the neck in a steady position in order to improve weld quality and reduce operator fatigue.

**406-1** 60°

**406-2** 45°

## Q-NECK COUPLER



The Q-Neck coupler is designed to connect any two Q-Necks for flexibility and to minimize the need for special-order necks. Compatible with any rotatable necks.

**QT-CPL**

## ADDITIONAL ACCESSORIES

### Gun Hanger

Store your Bernard® MIG gun neatly and efficiently between welds with this gun hanger.

**422H** Compatible with fixed or rotatable necks



### Heat Shield

Our durable heat shield reduces heat exposure from the weld, protecting the user's hand and improving operator comfort and weld quality.

**421** Compatible with fixed or rotatable necks

### HANDLE REPLACEMENT KITS

#### O Series Small

**1880219** 300, 400 amp (standard, locking)

**177370** 300, 400 (standard with ext.)

#### O Series

**1880220** 400 amp (standard)

# NOTES

# ORDERING INFORMATION

Amperage	Length	Handle & Trigger Option	Neck Option	Consumables	Wire Sizes	Power Pin	Liner Type
<b>S40</b>	<b>15</b>	<b>A</b>	<b>E</b>	<b>4</b>	<b>D</b>	<b>M</b>	<b>A</b>
<b>STEEL MONOCOIL CABLE</b>  <b>S30</b> 300 amp Max. wire size 5/64"  <b>S40</b> 400 amp Max. wire size 5/64"	<b>15 ft.</b> (4.57 m)  <b>20 ft.</b> (6.16 m)  <b>25 ft.</b> (7.63 m)	<u><b>O SERIES CURVED HANDLE S40</b></u>  <b>G</b> Standard trigger  <u><b>T SERIES STRAIGHT HANDLE S30, S40</b></u>  <b>M</b> Standard trigger <b>N</b> Locking trigger  <u><b>O SERIES SMALL CURVED HANDLE S30, S40</b></u>  <b>T</b> Standard trigger	<b>ROTATABLE</b>  <b>B</b> Short 45° <b>C</b> Short 60° <b>E</b> Medium 45° <b>F</b> Medium 60° <b>H</b> Long 45° <b>I</b> Long 60°  <b>FIXED</b>  <b>O</b> Short 45° <b>P</b> Short 60° <b>R</b> Medium 45° <b>S</b> Medium 60° <b>U</b> Long 45° <b>V</b> Long 60°	<b>4</b> AccuLock™ S <sup>††</sup> <b>9</b> AccuLock™ S <sup>†††</sup>	<b>B</b> 0.030"(0.8 mm) <b>C</b> 0.035"(0.9 mm) <b>D</b> 0.039"(1.0 mm) <b>E</b> 0.045"(1.2 mm) <b>H</b> 0.052"(1.4 mm) <b>I</b> 1/16"(1.6 mm) <b>K</b> 5/64"(2.0 mm)	<b>E</b> Euro <b>L</b> Lincoln® <b>M</b> Miller® <b>R</b> Tweco® #4 (Miller lead)	<b>A</b> AccuLock™ S liner <sup>†††</sup> <b>C</b> Conventional liner

††NOT COMPATIBLE WITH ACCULOCK S LINER TYPE "A"

†††COMPATIBLE ONLY WITH ACCULOCK™ CONTACT TIP OPTION.

†††† COMPATIBLE WITH BERNARD® CONVENTIONAL LINERS ON MILLER® PACKAGES.

††††† COMPATIBLE WITH CONVENTIONAL LINER

\*AVAILABLE FOR WIRE SIZES BETWEEN 0.023" AND 3/32"; AVAILABLE FOR CABLE LENGTHS UP TO 15 FT (4.57M); NOT COMPATIBLE WITH ALUMINUM WIRE.

**CONFIGURE YOUR MIG GUN OR REVERSE  
LOOKUP YOUR EXISTING GUN PART NUMBER  
TO FIND YOUR REPLACEMENT PARTS LIST!**



BRAND AND PRODUCT NAMES SHOWN ABOVE ARE TRADEMARKS OF THEIR RESPECTIVE OWNERS.

SUBJECT TO CHANGE – THE INFORMATION PRESENTED IN THIS SPEC SHEET IS ACCURATE TO THEBEST OF OUR KNOWLEDGE AT THE TIME OF PRINTING.

PLEASE VISIT BERNARDTREGASKISS.COM FOR THE MOST UP-TO-DATE INFORMATION.

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