

# Centerfire™ Consumable Series

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MIG (GMAW) Welding Consumables 

## Quick Specs

### Applications

Shipbuilding  
Trailer Fabrication  
Heavy Equipment  
Manufacturing

### System Components

Contact Tips  
Nozzles  
Diffusers / Tip Holders  
Insulators

### Compatible With

BTB Series MIG Guns  
NEW! Clean Air Series  
Dura-Flux™ Fixed Liner Series  
FILTAIR™ Fume Extraction Series  
Legacy Q-Gun™ and S-Gun™ Series

### Wire Sizes

0.023" to 1/8"  
(0.06 to 3.2 mm)

## Centerfire™ Series Consumables

are easy-to-use and high performing. Developed with the user's cost consideration in mind, Centerfire Series Consumables provide better arc starts, less spatter and more consistent welds, while lasting up to three times longer than most brands.

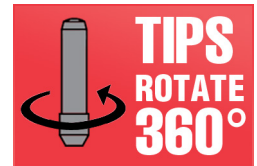
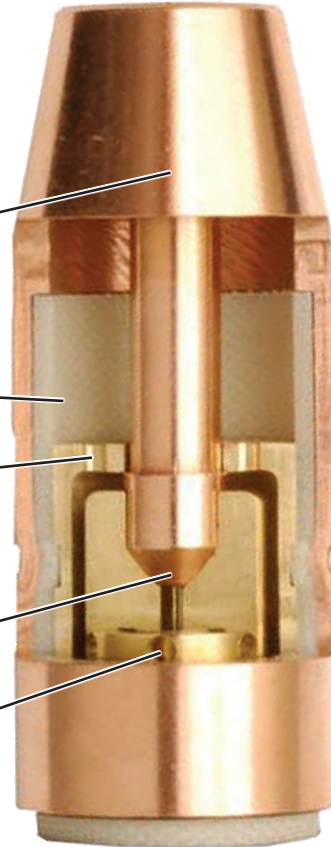
**Threaded nozzle** keeps contact tip centered for better weld placement and less spatter. Holds tips fixed at 1/4" or 1/8" recess, flush, or 1/8" stick out.

**Composite insulator** extends life and withstands heat abuse.

**Centerfire Nozzles** have a built-in spatter shield that smooths and concentrates gas glow for less weld oxidation and contamination.

**Centerfire Contact Tips** have a tapered base to improve conductivity.

**Diffuser mates securely** with contact tip for better conductivity.



Rotate to create new wear surfaces and extend tip life



No tools needed to change nozzles and contact tips



Better arc starts, less spatter, more consistent welds

## Centerfire HD Consumables

are designed for shipbuilding, trailer fabrication and other heavy manufacturing operations. These heavy-duty nozzles feature an easily removable and replaceable nozzle cone (the most frequently damaged part of the nozzle), thicker walls and a new, high temperature insulator.



## Bernard

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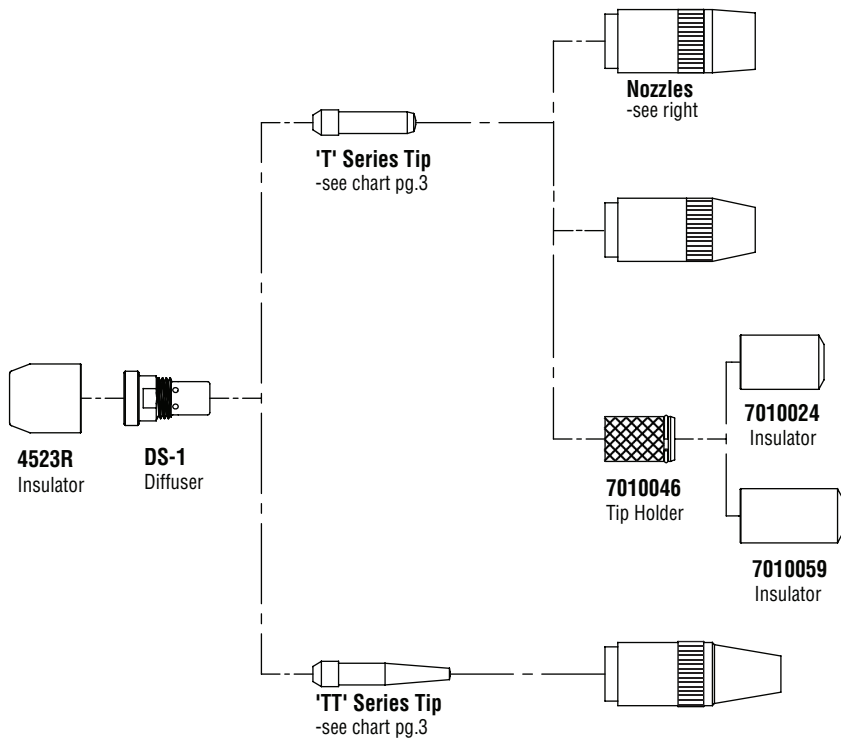
Fax: 708-946-6726

For more information, visit us at [BernardWelds.com](http://BernardWelds.com)

# Centerfire Series

## Small Centerfire™ Gas Diffusers and Nozzles

### Available Parts



### Nozzles

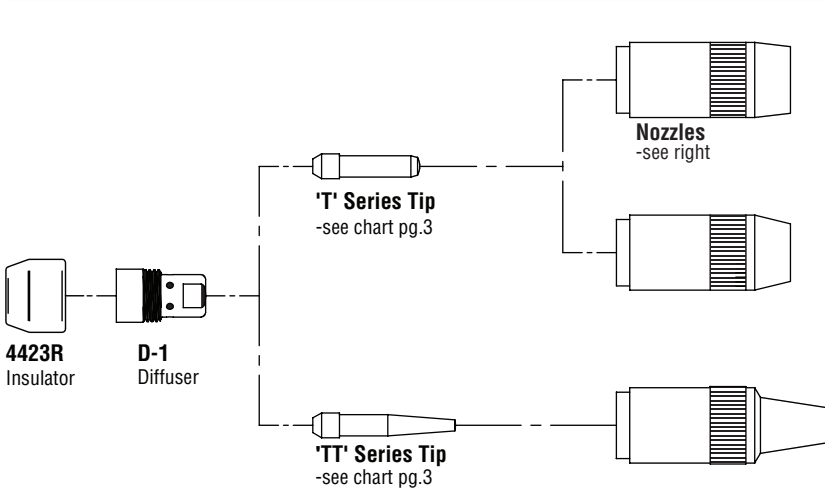
- NS-5800C** 5/8" Bore, Flush, .875" O.D., Copper
- NS-5818C** 5/8" Bore, 1/8" Recess, .875" O.D., Copper
- NS-5800B** 5/8" Bore, Flush, .875" O.D., Brass
- NS-5818B** 5/8" Bore, 1/8" Recess, .875" O.D., Brass

- NS-1218C** 1/2" Bore, 1/8" Recess, .875" O.D., Copper
- NS-1200B** 1/2" Bore, Flush, .875" O.D., Brass
- NS-1218B** 1/2" Bore, 1/8" Recess, .875" O.D., Brass

**NS-FLX** Self-Shielded Conversion Kit  
(Includes tip holder and both insulators)

- NST-3800B** 3/8" Bore, Flush, .875" O.D., Brass
- NST-3818B** 3/8" Bore, 1/8" Recess, .875" O.D., Brass
- NST-38XTB** 3/8" Bore, 1/8" Extension, .875" O.D., Brass

## Large Centerfire™ Gas Diffusers and Nozzles



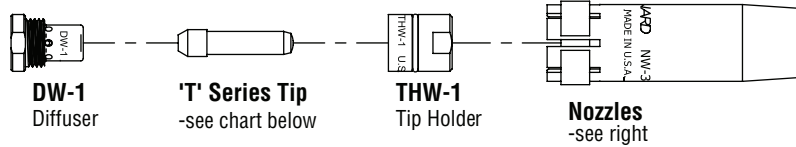
- N-3400C** 3/4" Bore, Flush, 1.063" O.D., Copper
- N-3418C** 3/4" Bore, 1/8" Recess, 1.063" O.D., Copper
- N-3414C** 3/4" Bore, 1/4" Recess, 1.063" O.D., Copper
- N-3418B** 3/4" Bore, 1/8" Recess, 1.063" O.D., Brass
- N-3414B** 3/4" Bore, 1/4" Recess, 1.063" O.D., Brass

- N-5800C** 5/8" Bore, Flush, 1.063" O.D., Copper
- N-5818C** 5/8" Bore, 1/8" Recess, 1.063" O.D., Copper
- N-5814C** 5/8" Bore, 1/4" Recess, 1.063" O.D., Copper
- N-5818B** 5/8" Bore, 1/8" Recess, 1.063" O.D., Brass
- N-5814B** 5/8" Bore, 1/4" Recess, 1.063" O.D., Brass

- NT-3800C** 3/8" Bore, Flush, 1.063" O.D., Copper

Diffusers, nozzles and contact tips are available in packages of 10 and insulators are available in packages of 5

## Water-Cooled Centerfire™ Gas Diffusers and Nozzles

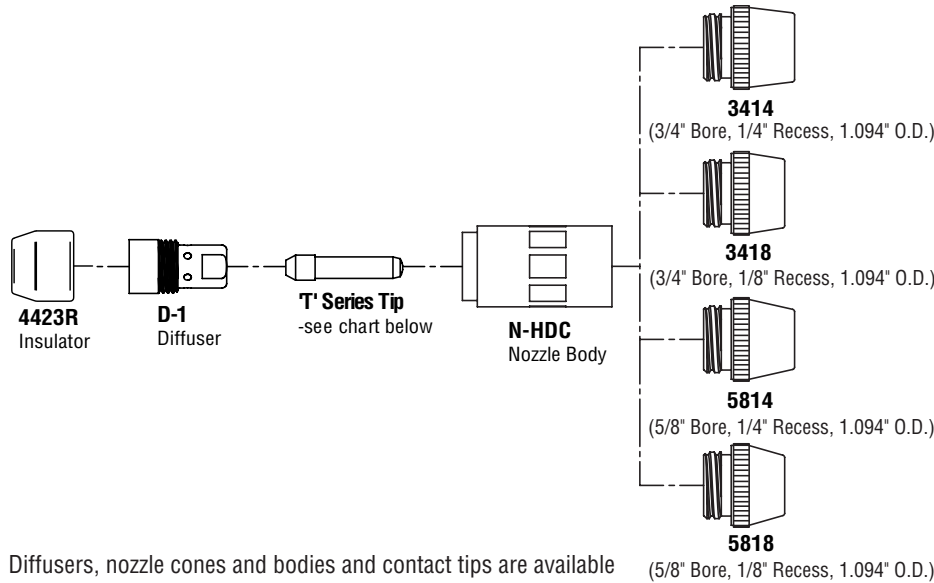


### Nozzles

- NW-3418C** 3/4" Bore, 1/8" Recess, 1.000" O.D., Copper
- NW-3414C** 3/4" Bore, 1/4" Recess, 1.000" O.D., Copper

## Centerfire™ HD Gas Diffusers and Nozzles

### Available Parts



Diffusers, nozzle cones and bodies and contact tips are available in packages of 10 and insulators are available in packages of 5

### Details

- Couple the Centerfire HD Nozzle Body (**N-HDC**) with a Centerfire HD Nozzle Cone to form a complete Centerfire HD Nozzle.
- One nozzle body and one nozzle cone required, order separately.
- Use Centerfire HD Nozzles with standard Centerfire **4423R** Insulator Caps, **D-1** Gas Diffusers and 'T' Series Contact Tips.

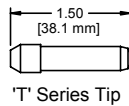
### Centerfire HD Consumable Series Installation

1. Install insulator over neck.
2. Trim liner as per the directions below.
3. Torque diffuser onto neck to approx. 12ft-lbs.
4. Insert contact tip into diffuser.
5. Thread nozzle body onto diffuser / contact tip and tighten firmly by hand.
6. Thread nozzle cone onto nozzle body and tighten firmly by hand.

## Centerfire Contact Tips

### 'T' Series Contact Tips (0.350" O.D.)

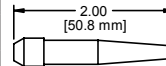
T-023	0.023"	(0.6 mm)
T-030	0.030"	(0.8 mm)
T-035	0.035"	(0.9 mm)
T-039	0.039"	(1.0 mm)
T-045	0.045"	(1.2 mm)
T-052	0.052"	(1.4 mm)
T-062	1/16"	(1.6 mm)
T-072	0.072"	(1.8 mm)
T-078	5/64"	(2.0 mm)
T-094	3/32"	(2.4 mm)
T-109	7/64"	(2.8 mm)
T-125	1/8"	(3.2 mm)



'T' Series Tip

### 'TT' Series Contact Tips (0.350" O.D.)

TT-023	0.023"	(0.6 mm)
TT-030	0.030"	(0.8 mm)
TT-035	0.035"	(0.9 mm)
TT-039	0.039"	(1.0 mm)
TT-045	0.045"	(1.2 mm)
TT-052	0.052"	(1.4 mm)
TT-062	1/16"	(1.6 mm)



'TT' Series Tip

Available in packages of 10 contacts tips.

### Standard Installation

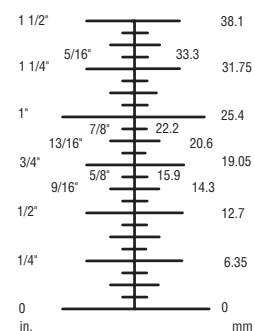
1. Install insulator over neck.
2. Trim liner as per the directions below.
3. Torque diffuser onto neck to approx. 12ft-lbs.
4. Insert contact tip into diffuser.
5. Thread nozzle onto diffuser / contact tip and tighten firmly by hand.

## Liner Trim Guidelines

To know the optimal length to trim your liner simply find your diffuser part number from the list below and trim to the corresponding length.

- D-1** 9/16" (14.3 mm)
- DS-1** 9/16" (14.3 mm)
- DW-1** 1/4" (6.4 mm)

- D-1T** 13/16" (20.6 mm)
- D-1T-5** 13/16" (20.6 mm)
- DS-1T** 5/8" (15.9 mm)



# Centerfire™ Conversion Series

Simplify parts management and improve performance by converting all of your MIG guns to Centerfire Contact Tips, Nozzles and Diffusers. Find your MIG gun make and model on the left, then follow the chart to the right for parts needed to upgrade.

## Conversion Installation

1. Install conversion adapter (if required).
2. Install insulator cap over conversion adapter.
3. Proceed with Standard or Centerfire HD Series installation.

Gun Manufacturer	Gun Model	Desired Nozzle / Diffuser Style	Adapter	Insulator	Diffuser	Contact Tip	Nozzle
Bernard™	Q-Gun™, EZ Feed II, H, F	Small	Not Required	4323R	DS-1	Select from tips on page 3	Select from nozzles on pages 2-3 <i>Note: use small nozzles with small diffusers and large nozzles with large diffusers</i>
		Large	Not Required	10012	D-1		
Binzel®	ALPHA 2, ALPHA 2 Automatic	Small	Not Required	4323R	DS-1B2		
		Large	N/A	N/A	N/A		
	ALPHA 3, ALPHA 3 Automatic	Small	Not Required	4323R	DS-1B3		
		Large	Not Required	4323R	D-1B3		
	ALPHA 4, ALPHA 4 Automatic	Small	N/A	N/A	N/A		
		Large	Not Required	4323R	D-1B4		
Lincoln®	100L	Small	1380020	4323R	DS-1		
		Large	N/A	N/A	N/A		
	Magnum 250	Small	1380005	4323R	DS-1		
		Large	1380005	10012	D-1		
	Magnum 300, Magnum 400	Small	Not Required	4323R	DS-1T		
		Large	Not Required	4423R	D-1T		
	Magnum 500	Small	1380017	4323R	DS-1		
		Large	1380017	10012	D-1		
	Magnum Pro 300	Small	N/A	N/A	N/A		
		Large	Not Required	4323R	D-1LP3		
Miller®	XR Edge	Small	1380018	4323R	DS-1		
		Large	1380018	10012	D-1		
	XR30A, XR-W, Roughneck, Python	Small	Not Required	4323R	DS-1		
		Large	Not Required	10012	D-1		
	Aluma-Pro™	Small	Not Required	4323R	DS-1AP		
		Large	Not Required	10012	D-1AP		
OXO™	APX	Small	Not Required	4323R	DS-1		
		Large	Not Required	10012	D-1		
Tregaskiss™	Former TOUGH GUN™ Semi-Automatic Series or the former Bernard T-Gun™	Small	Not Required	4323R	DS-1T		
		Large	Not Required	4423R	D-1T		
Tweco®	160 Mini Mig	Small	1380020	4323R	DS-1		
		Large	1380020	10012	D-1		
	No. 1	Small	1380019	4323R	DS-1		
		Large	1380019	10012	D-1		
	No. 2	Small	1380005	4323R	DS-1		
		Large	1380005	10012	D-1		
	No. 3, No. 4, Tuff-n-Lite, Supra® XT (HD Consumables)	Small	Not Required	4323R	DS-1T		
		Large	Not Required	4423R	D-1T		
	Spraymaster® 450	Small	Not Required	4323R (2 Required)	DS-1T		
		Large	Not Required	4423R	D-1T		
	No. 5	Small	N/A	N/A	N/A		
		Large	Not Required	4423R	D-1T-5		
	ELC 250, ELC 350, Spraymaster® 250, Spraymaster® 350	Small	1380012	4323R	DS-1		
		Large	1380012	10012	D-1		
ELC 450, EL 450, EL 600, Supra® XT (EL Consumables)	Small	1380017	4323R	DS-1			
	Large	1380017	10012	D-1			

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Subject to Change – The information presented in this spec sheet is accurate to the best of our knowledge at the time of printing. Please visit [BernardWelds.com](http://BernardWelds.com) for the most up-to-date information.

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