

ARC T HIGH PERFORMANCE SERIES PRODUCT TRAINING TUTORIAL

ARC T SERIES

Part 2 – Key Wear Parts



M A K E W O R K
L I F E E A S I E R

WHICH WEAR PART SYSTEM TO USE ?

System Guidance Table

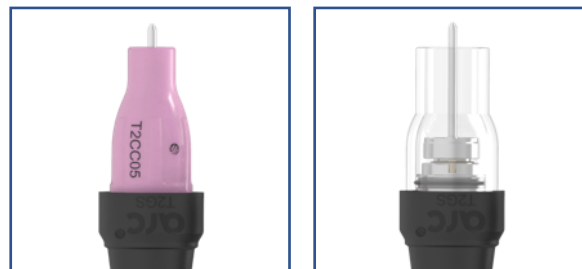
Metal / Application	System	Recommended Gas Flow	Recommended Stick Out Range
Steel, Aluminium	Collets	5-25 l/min	5-15 mm
Steel, Aluminium, Stainless Steel	Gas Lens	4-20 l/min	5-20 mm
Stainless Steel, Inconel, Chromoly, Titanium	Super Series Gas Lens set-up	12-20 l/min	5-55 mm

Suitable for both AC and DC. For set up-information please refer to the Arc Tig Catalogue

Collet Body Set-up



Gas Lens Collet Body Set-up



Uses less gas than a Standard Collet Body Set-up with increased stickout !

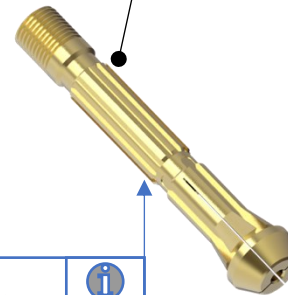
Super Series Gas Lens Body Set-up





COLLET BODY

- Improved laminar gas flow
- Easy tungsten extension
- Utilizes Force Cool Technology



Key Feature
One Piece System
No Twisting





Key Feature
Replaceable gauze sets



GAS LENS COLLET BODIES

Up to 10 x longer life than industry standards

- One piece system - no twisting
- Superior gas coverage and laminar flow
- Utilizes Force Cool Technology

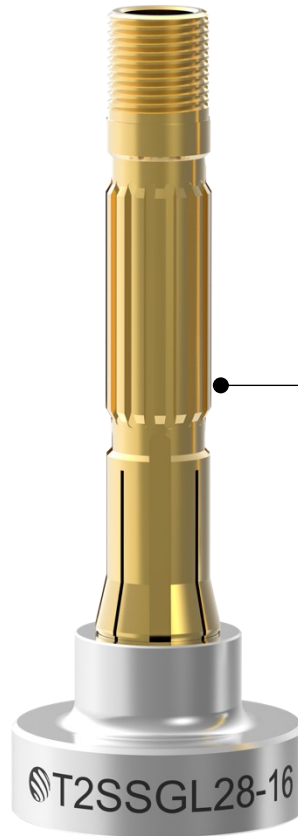




Key Feature
Super Series Gas Lens for increased gas envelope



Key Feature
Replaceable gauze sets



SUPER SERIES GAS LENS COLLET BODIES

Up to 10 x longer life than industry standards

- Ideal for exotic materials
- One piece system - no twisting
- Superior gas coverage and laminar flow
- Utilizes Force Cool Technology



CERAMIC CUPS

- Design adds structural strength and improved grip for removal
- Manufactured from alumina
- Standard and Super Series options

Key Feature
Thicker edge aides rolling the cup



HIGH PERFORMANCE CERAMIC CUPS

- Withstands thermal shock temperature of 1950 °C – remains crack free
- Maximum melting point 2050 °C

Key Feature



Thicker edge aides rolling the cup



QUARTZ CUPS

Up to 5 x longer life than Pyrex

- Manufactured from a transparent high-performance Quartz
- Suitable for higher heat applications including AC pulse process (when compared to Pyrex)
- Standard and Super Series options

Key Feature

Stays clear, Quartz cups do not discolour



HEAT ZONE ISOLATORS

- Tapered design ensures 100% ceramic and electrode alignment
- Replaceable
- Utilizes Heat Zone Isolation Technology



Quartz Zone Isolators
Special Seal Rings ensure seal integrity and cup alignment



Key Feature

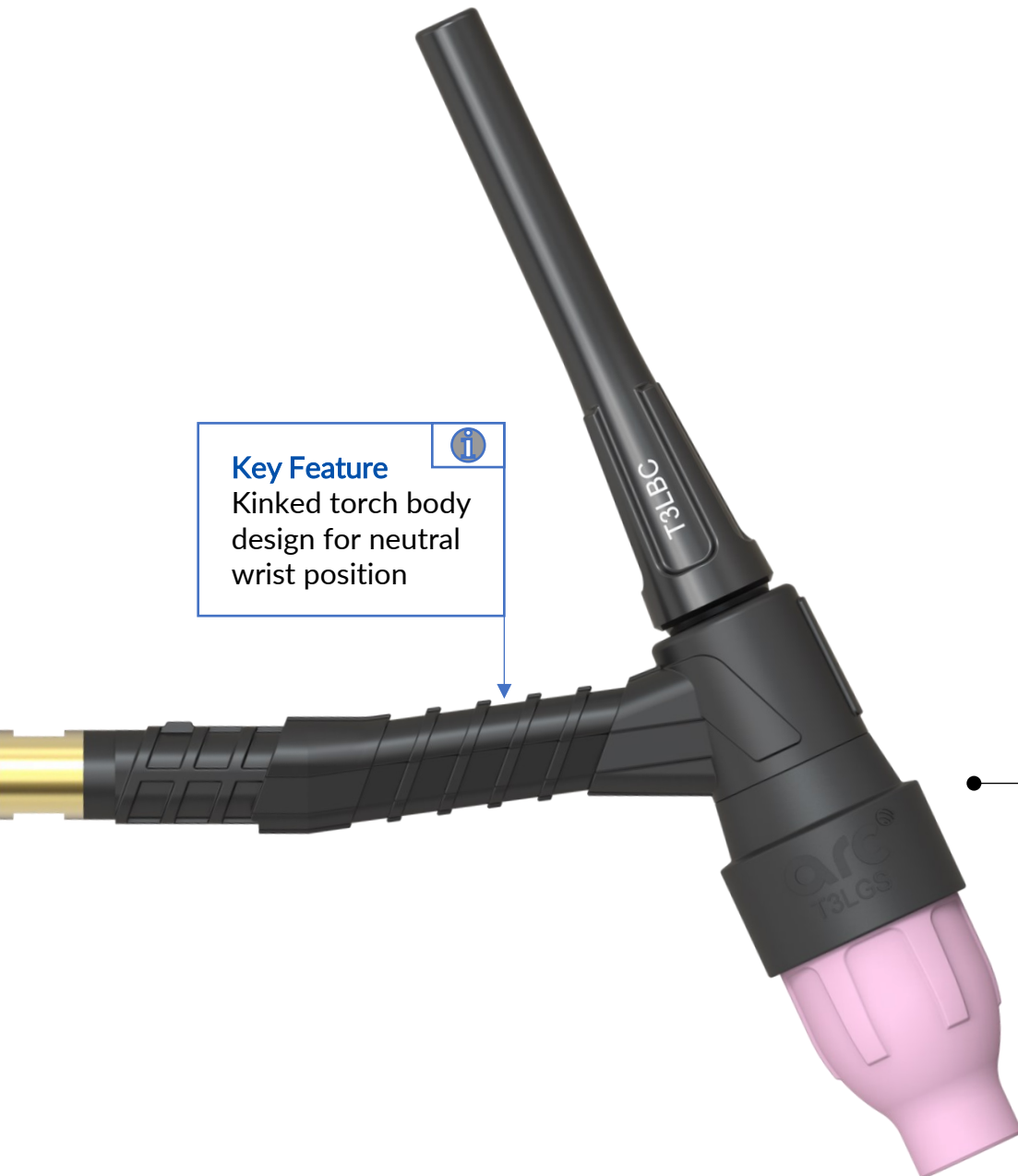
All wear parts are laser marked for ease of identification



HEAD GASKETS

- 100% gas seal integrity
- Insulates to 10 KV
- 350°C operating temperature





Key Feature
Kinked torch body
design for neutral
wrist position

TORCH BODIES

- Air- Cooled Torch Heads utilize Heat Zone Isolation Technology
- Liquid-Cooled Torch Heads utilize Bi-Flow Technology





FLEX TORCH BODIES

- Air-Cooled Torch Heads utilize Heat Zone Isolation Technology
- Air-Cooled Flex Life > 500 Flexes



FLEX TORCH BODIES

- Liquid-Cooled Torch Heads utilize Bi-Flow Technology
- Liquid-Cooled Flex Life > 50 Flexes

Key Feature

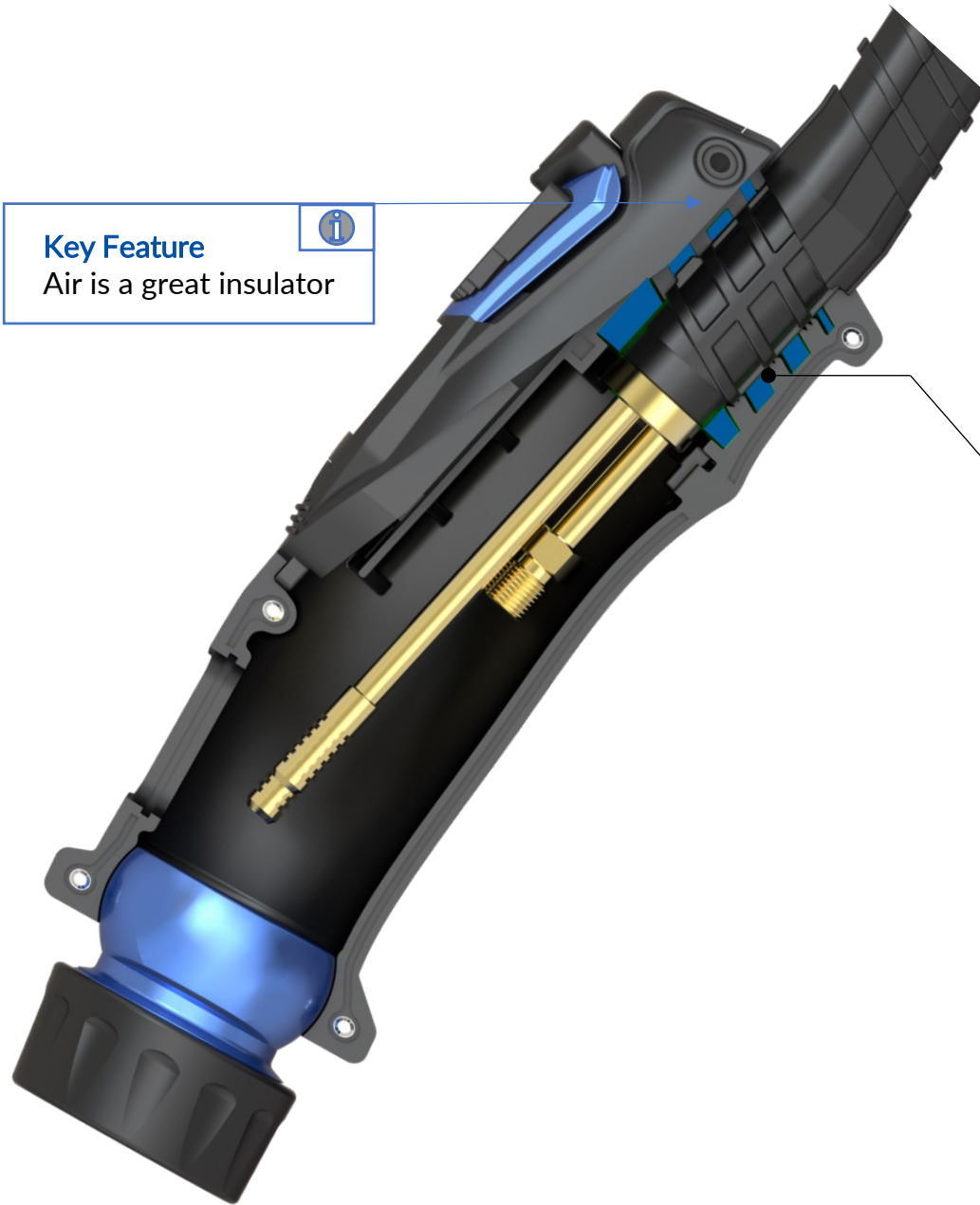
Tapered seat ensures
100% gas seal to torch
body



BACK CAPS

- Ribbed design adds structural strength and improved grip
- Superior grade phenolics ensure maximum thermal resistance
- Available in 3 lengths, short, medium and long

Key Feature
Air is a great insulator



AIR GAP TECHNOLOGY

- Minimized handle to torch body interface isolates conducted heat
- Large air pockets isolate radiated heat
- Cooler running handles

Key Feature
Point of sales
configurability



Blank Kit



Momentary



3 Button
Momentary



2 Button Rocker



4 Button Rocker



Momentary + Horizontal Pot



Digital Control Module

PLUG AND PLAY SWITCH OPTIONS

- Fully interchangeable plug and play modules
- Analogue and digital control options

Key Feature

Infinite adjustment of welding parameters from the torch handle



DIGI-TIG ON TORCH MACHINE CONTROLS

- Module on / off illumination
- Real time digital display of parameters
- Multi Function switching option
- Job number recall / Amps / Slope up / down
Post flow / Arc Frequency / Pulse frequency

Note:

Digital signalling requires software systems integration in collaboration with equipment manufacturers



CABLE SETS

- Flexible rubber power and supply hoses
- Flexible leather cable protector
- Multi-core self shielded switch wire system
- Built for extreme climates, working temperature range -20..+40°C ambient
- Knuckle joints enable infinite adjustment independent of the handle

Key Feature

Clever material selection to combine:

- Flexibility
- Durability
- Performance

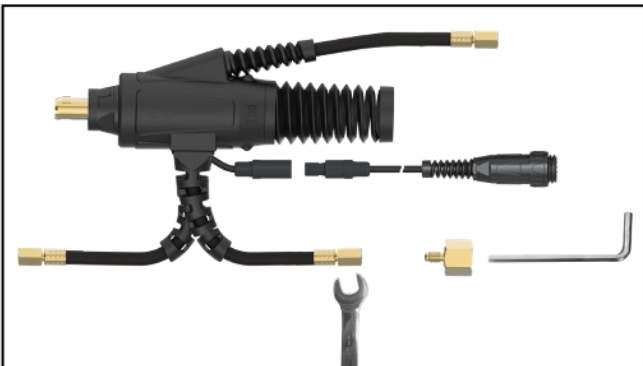


RAPID-FIT CONNECTOR SYSTEM

- All terminations interchange on a common hose connector
- Removes the necessity to cut and re-crimp terminators

Key Feature

All terminations can be removed and recoupled with a standard spanner and Allen key



Key Feature

Point of Sales
Configurability



SURELOK AND QD SYSTEM

- Global machine systems easily reconfigure on a standard cable set
- All machine connectors and switch plugs easily reconfigure at Point of Sale

Surelok Dinse

Surelok Gas-Through

Surelok QD



Key Feature
Point of Sales Configurability

ARC T HIGH PERFORMANCE SERIES

Make Work Life Easier



MAKE WORK
LIFE EASIER