

# FUSION Series

180 AMP MIG Gun

Air-Cooled

**TWECO**  
AN ESAB BRAND



## WELDING PROCESSES:

MIG (GMAW), Aluminum (GMAW),

## Standard Options Include:

- High Performance VELOCITY2 Consumables and Rear Connector
- Conduit Liner – WS42 Series

## Industry

- Light Duty Fabrication

## Tweco Fusion® Mig Gun Series

### FEATURES

- **EASY TO MANEUVER** in various welding positions to reduce operator fatigue
- **RUGGED DESIGN** with steel spring strain relief—built tough to last
- **ERGONOMIC HANDLE DESIGN** with diamond pattern for better grip and greater operator appeal
- **IMPACT-RESISTANT HANDLE AND COMPONENTS** for long-lasting durability
- **MICROSWITCH TRIGGER** designed for dependability
- **OPTIMIZED ELECTRICAL SURFACE CONTACT** with improved arc stability
- **VELOCITY2 CONSUMABLES** for longer life and improved performance
- **EASY TO CHANGE VELOCITY2 TIPS** — no threads, no tools needed
- **FEWER CONSUMABLES PARTS** to replace resulting in lower cost of ownership
- **CONTACT TIPS** can be rotated to optimize life requiring fewer changes thus reducing cost of usage
- **SOLID COPPER CONDUCTOR PATH** with fewer connections
- **SMOOTH, STABLE ARC** for a superior welding performance
- **OPTIMIZED WIRE FEEDABILITY** with centered liner
- **BEST IN CLASS PERFORMANCE**

# FUSION 180 AMP

SPECIFICATIONS	
<b>Description</b>	<b>Fusion 180 Amp</b>
Welding Output CO <sub>2</sub> Gas	180 A at 40%
Wire Diameter, Mild Steel	Up To 0.035" (0.9mm)
Wire Diameter, Stainless	Up To 0.035" (0.9mm)
Wire Diameter, Aluminum	Up To 0.035" (0.9mm)
Certification Mark (Standards)	CE IEC 60974-7
Operating Temperature	-10 to +40 °C
Cable Length	10 ft. (3 m), and 12 ft. (3.6 m)

## Tweco® Style (4 Pin) Rear Connector

Adapter kits are available to fit Tweco rear connection to most wire feeders

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	12 ft (3.6 m)	F180T-12-3035	1017-1331

## Tweco® Style (8 Pin) Rear Connector ESAB® Rebel®

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	10 ft (3 m)	F180TA-10-3035	1017-1338
	12 ft (3.6 m)	F180TA-12-3035	1017-1332

## Miller® Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	12 ft (3.6 m)	F180M-12-3035	1017-1330

## Lincoln® Style Rear Connector

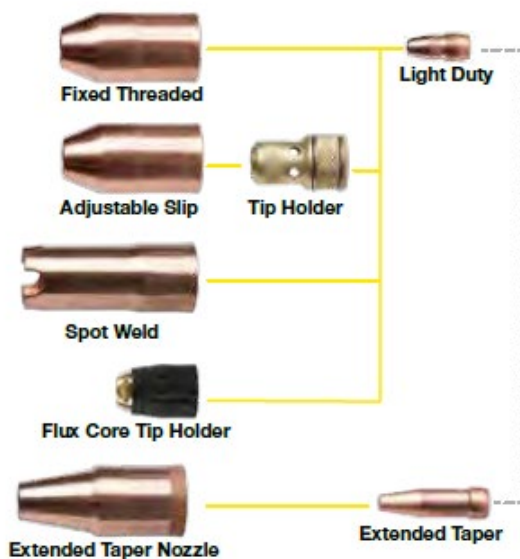
Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	12 ft (3.6 m)	F180L-12-3035	1017-1329

## Euro-kwik Style Rear Connector

Wire Size	Length	Part No.	Stock No.
Up To .035" (0.9 mm)	10 ft (3 m)	F180X-10-3035	1017-1335

Conduit Liner—WS42 Series

Note: Gun Length is measured from the front case to the rear case +/-3"



# FUSION 180 AMP

## Light Duty Contact Tips

DESCRIPTION	PART NO.	STOCK NO.
.023" (0.6 mm) Standard	<b>VTSA23</b>	1110-1308
.030" (0.8 mm) Standard	<b>VTSA30</b>	1110-1309
.035" (0.9 mm) Standard	<b>VTSA35</b>	1110-1310
.040" (1.0 mm) Standard	<b>VTSA40</b>	1110-1311
.045" (1.2 mm) Standard	<b>VTSA45</b>	1110-1312
3/64" (1.2 mm) Standard*	<b>VTSA364*</b>	1110-1313
.052" (1.3 mm) Standard	<b>VTSA52</b>	1110-1314
1/16" (1.6 mm) Standard	<b>VTSA116</b>	1110-1315
1/16" (1.6 mm) Standard	<b>VTSA116*</b>	1110-1317
5/64" (2.0 mm) Standard	<b>VTSA564</b>	1110-1316
.023" (0.6 mm) Extended Tapper	<b>VTSET23</b>	1110-1330
.030" (0.8 mm) Extended Tapper	<b>VTSET30</b>	1110-1331
.035" (0.9 mm) Extended Tapper	<b>VTSET35</b>	1110-1332
.040" (1.0 mm) Extended Tapper	<b>VTSET40</b>	1110-1333
.045" (1.2 mm) Extended Tapper	<b>VTSET45</b>	1110-1334
3/64" (1.2 mm) Extended Tapper	<b>VTSETA364*</b>	1110-1335
.052" (1.3 mm) Extended Tapper	<b>VTSET52</b>	1110-1336
1/16" (1.6 mm) Extended Tapper	<b>VTSET116</b>	1110-1337
1/16" (1.6 mm) Extended Tapper	<b>VTSETA116*</b>	1110-1338

\*For Aluminum Wire

## Conduit Liners – For Use With Steel Welding Wires 180-250 Amp – Steel Wound

Wire Size	Length	Part No.	Stock No.
.030" - .035" (0.8 - 0.9 mm)	15 ft (4.6 m)	42-3035-15	1420-1113
.030" - .035" (0.8 - 0.9 mm)	25 ft (7.6 m)	42-3035-25	1420-1115
.040" - .045" (1.0 - 1.2 mm)	15 ft (4.6 m)	42-4045-15	1420-1123
.040" - .045" (1.0 - 1.2 mm)	25 ft (7.6 m)	42-4045-25	1420-1125
.052" - 1/16" (1.3 - 1.6 mm)	15 ft (4.6 m)	42-116-15	1420-1124

## Light Duty Nozzles

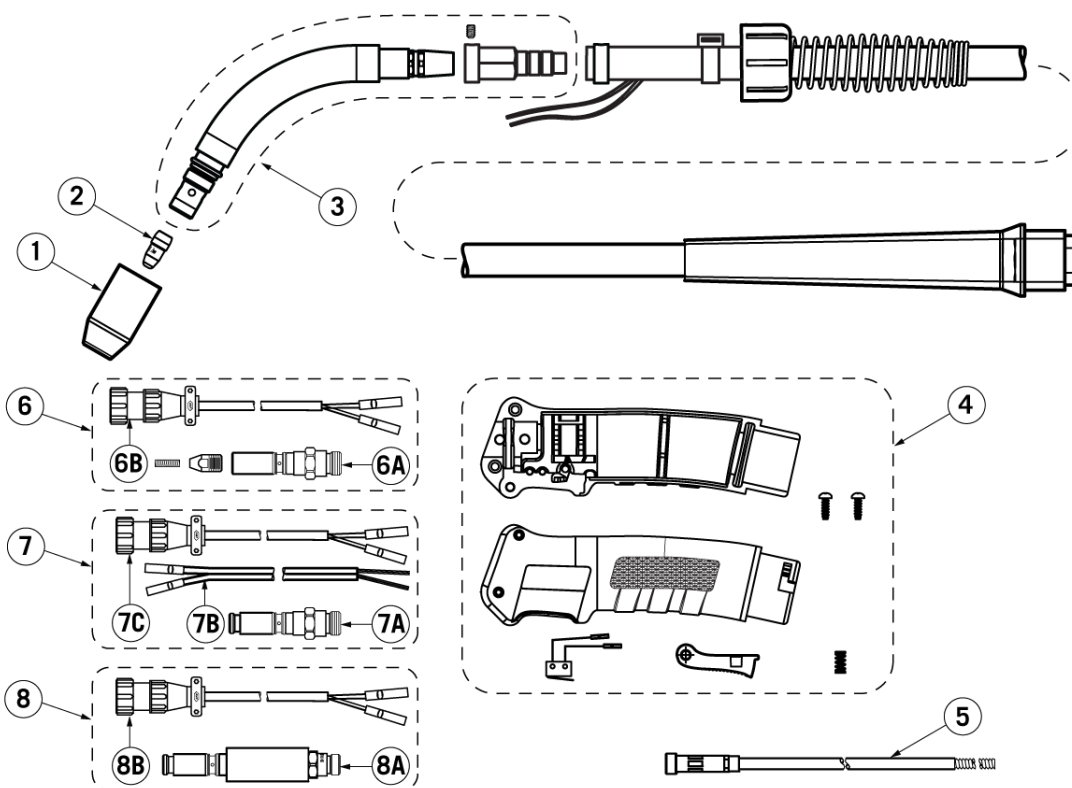
Self Instructed Nozzles. 2 Per Pack

DESCRIPTION	PART NO.	STOCK NO.
1/2" Fixed Threaded-Flush	<b>VNS50F</b>	1220-1200
1/2" Fixed Threaded-Recess	<b>VNS50</b>	1220-1201
5/8" Fixed Threaded-Flush	<b>VNS62F</b>	1220-1202
5/8" Fixed Threaded-Recess	<b>VNS62</b>	1220-1203
3/8" Fixed Threaded-Flush	<b>VNS37F</b>	1220-1204
3/8" Fixed Threaded-Recess	<b>VNS37</b>	1220-1206
1/2" Adj. Slip-Heavy Cone	<b>VNSH50S</b>	1220-1229
Adj. Slip-Tip Holder	<b>VNSSINS</b>	1340-1132
3/8" Extended Tapper Nozzle	<b>VNSET37F</b>	1220-1235
3/4" Spot Nozzle Assembly	<b>VNS75FAS</b>	1220-1205
FC Tip Holder-Insulator	<b>VTSET30</b>	1220-1208
FC Tip Holder-Insulator Assembly	<b>VNSFC</b>	1220-1207

## Conduit Liners – For Use With Aluminium Welding Wires 180-250 Amp – Teflon

Wire Size	Length	Part No.	Stock No.
.030" – 3/64" (0.8 – 1.2 mm)	15 ft (4.6 m)	42N-3545-15	1420-1003

# Replacement Parts



#	Description	Part No.	Stock No.
1	VELOCITY2 Nozzle	Refer To Page 3	
2	VELOCITY2 Contact Tip	Refer To Page 3	
3	Conductor Tube Assembly	FVCTS-220-60	1620-1108
4	Handle/ Trigger Repair Kit	F80	2020-2025
5	Conduit Assembly	WS42-3035-15	1420-1140
6A	Miller® Rear Connector	350-174MH	2035-2111
6B	Miller® & Lincoln® Control Wire & Plug	WM354-M	2030-2075
7A	Tweco® Rear Connector	350-174H	2035-2110
7B	Tweco® Control Wire & Plug	35K-350-1	2000-2352
7C	Thermal Arc® Control Wire	WS-354-TA-LC	2060-2141
8A	Lincoln® Rear Connector	350-174HXL	2035-2116
8B	Miller® & Lincoln® Control Wire & Plug	WM354-M	2030-2075

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