

Weldcraft™ A-150 Series

Formerly WP-17 Series

Hand-Held Air-Cooled
TIG Welding Torches



Quick Specs

Models

A-150	A-150 Flex Redhead™
A-150 Valve	A-150 Flex Valve Redhead™
A-150 Flex	A-150 Positive Stop Handle
A-150 Flex Valve	A-150 Valve Positive Stop Handle

Applications

Fabrication
Maintenance and repair
Aerospace
Food and beverage industry
Metal art
Petro/chemical
Shipboard installation/repair

Rated Output

DC: 150 A, AC: 115 A

Duty Cycle 60%

Electrode Range

.020–1/8 in. (0.5–3.2 mm)

A-150 Series TIG torches

Formerly known as the WP-17 Series, the A-150 Series is comprised of an assortment of versatile and innovative air-cooled torches designed for maximum comfort in a variety of applications. The A-150 Series torches are a cost-effective alternative to complex water-cooled systems.

Diamond Grip™ head design (A-150 and A-150 Valve) has ergonomic contact points for thumb and fingers. Provides a more comfortable grip and reduces operator fatigue.

Improve control and comfort with the A-150 Flex and the flexible neck that allows access into hard-to-reach areas.

Maximum versatility. Utilize the Redhead Series torches in a variety of welding applications without adding expenses.

Ribbed handle and torch design provide cool operation and maximum operator comfort while reducing downtime caused by operator fatigue.

Utilize existing parts. Replacement parts are easy to find. The A-150 Series uses Weldcraft 10N series consumables.

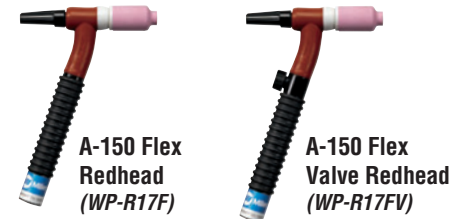
Available with 12.5- or 25-foot, single- or heavy-duty two-piece cable assembly determined by the compatibility of the power source. Heavy-duty cable assembly allows use of a larger conductor for the power cable which simplifies repair and replacement making it ideal for field applications.

Additional torch models



A-150 Flex
(WP-17F)

A-150 Flex Valve
(WP-17FV)



A-150 Flex Redhead
(WP-R17F)

A-150 Flex Valve Redhead
(WP-R17FV)



A-150 Valve
(WP-17V)



A-150 PSH
(WP-17-Positive Stop Handle)

A-150 Valve PSH
(WP-17V-Positive Stop Handle)

Note: Torches delivered may vary slightly from images shown.



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Torch Packages

Models		1-Piece Power Cable Standard Rubber		1-Piece Power Cable Mono-Flex™		2-Piece Power Cable Rubber	
Old Model	New Name	12.5 ft. (3.8 m)	25 ft. (7.6 m)	12.5 ft. (3.8 m)	25 ft. (7.6 m)	12.5 ft. (3.8 m)	25 ft. (7.6 m)
WP-17	A-150	WP-17-12-R	WP-17-25-R	WP-17-12-MF	WP-17-25-MF	WP-17-12-2	WP-17-25-2
WP-17V	A-150 Valve	WP-17V-12-R	WP-17V-25-R	WP-17V-12-MF	WP-17V-25-MF	WP-17V-12-2	WP-17V-25-2
WP-17F	A-150 Flex	WP-17F-12-R	WP-17F-25-R	—	—	WP-17F-12-2	WP-17F-25-2
WP-17FV	A-150 Flex Valve	WP-17FV-12-R	WP-17FV-25-R	—	—	WP-17FV-12-2	WP-17FV-25-2
WP-R17FV	A-150 Flex Valve Redhead™	WP-R17FV-12-R	WP-R17FV-25-R	—	—	—	—
WP-17-PSH	A-150 PSH	—	WP-17-25-R-PSH	—	—	WP-17-12-2-PSH	WP-17-25-2-PSH
WP-17V-PSH	A-150 Valve PSH	WP-17V-12-R-PSH	WP-17V-25-R-PSH	—	—	—	WP-17V-25-2-PSH

V = Valve **F** = Flex **FV** = Flex Valve **PSH** = Positive Stop Handle (threaded handle)

Torch packages include torch body, handle, power cable and long back cap.

Connectors

1-piece power cable connectors



194722
50 mm Dinse-style
gas thru for one-piece
air-cooled torch.



195378
50 mm Dinse-style
for one-piece
air-cooled torch.



105257
Power cable adapter
for one-piece
air-cooled torch.



273483
25 mm (small)
Dinse-style gas
thru one-piece
air-cooled torch.

2-piece power cable connector

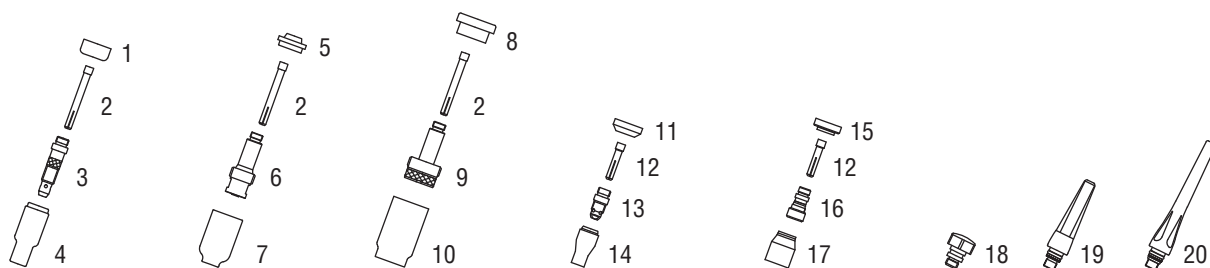


129527
50 mm Dinse-style
for two-piece cable
air-cooled torch.

Machines	Connection Type	1-Piece Power Cable Connectors	2-Piece Power Cable Connectors
TIG Machines			
Syncrowave® 200/210	50 mm Dinse-style gas thru	194722	129527*
Syncrowave® 250 DX/350 DX (Dinse)	50 mm Dinse-style	195378	129527
Syncrowave® 250 DX/350 DX (stud)	1/2 in. stud	105257	N/A
Maxstar® 150 STL/STH	25 mm (small) Dinse-style gas thru	273483	127836*
Dynasty® 200/210/280/350, Maxstar® 200/210/280/350	50 mm Dinse-style	195378	129527
Multiprocess Machines			
Multimatic™ 200	25 mm (small) Dinse-style gas thru	273483	127836*
Dimension™ 302/452/NT 450/652	1/2 in. stud	105257	N/A
PipeWorx	1/2 in. stud	105257	N/A
XMT® 304/350	50 mm Dinse-style	195378	129527
XMT® 450	1/2 in. stud	105257	N/A
Engine-Driven Machines			
Most Big Blue®, Trailblazer®, Bobcat™, Blue Star® and Wildcat® models	1/2 in. stud	105257	N/A
Big Blue® 450 Duo CST	50 mm Dinse-style	195378	129527
General Reference			
	25 mm (small) Dinse-style gas thru	273483	N/A
	50 mm Dinse-style	195378	129527
	50 mm Dinse-style gas thru	194722	N/A
	1/2 in. stud	105257	N/A
Other Adapter			
	Stud to dinse-style adapter	232728	

*2-piece power cable connector is not gas thru.

Consumables (Refer to Owner's Manual for additional replacement parts.)



Non-Gas Lens

Electrode Size — inch (mm)	.020 (0.5)		.040 (1.0)		1/16 (1.6)		3/32 (2.4)		1/8 (3.2)	
1 Insulator (required)	18CG		18CG		18CG		18CG		18CG	
2 Collet	10N21		10N22		10N23		10N24		10N25	
3 Collet Body	10N29		10N30		10N31		10N32		10N28	
Nozzle Size — size # (inch)	4 (1/4)	5 (5/16)	6 (3/8)	7 (7/16)	8 (1/2)	10 (5/8)	12 (3/4)	Short		
4 Alumina	10N50	10N49	10N48	10N47	10N46	10N45	10N44	—		
* Long Alumina	—	10N49L	10N48L	10N47L	—	—	—	—		
* Lava	105Z43	105Z42	105Z44	105Z45	08N78	08N79	08N80	—		
* Long Lava	12N03	105Z60	12N02	105Z61	—	—	—	—		

Gas Lens

Electrode Size — inch (mm)	.020 (0.5)		.040 (1.0)		1/16 (1.6)		3/32 (2.4)		1/8 (3.2)	
5 Insulator (required)	54N01		54N01		54N01		54N01		54N01	
2 Collet	10N21		10N22		10N23		10N24		10N25	
6 Gas Lens	45V29		45V24		45V25		45V26		45V27	
Nozzle Size — size # (inch)	4 (1/4)	5 (5/16)	6 (3/8)	7 (7/16)	8 (1/2)	10 (5/8)	12 (3/4)	Short		
7 Alumina Gas Lens	54N18	54N17	54N16	54N15	54N14	—	—	54N19		
* Long Gas Lens	—	54N17L	54N16L	54N15L	—	—	—	—		

Large Diameter Gas Lens

Electrode Size — inch (mm)	.020 (0.5)		.040 (1.0)	1/16 (1.6)		3/32 (2.4)		1/8 (3.2)	
8 Insulator (required)	54N63		54N63	54N63		54N63		54N63	
2 Collet	10N21		10N22	10N23		10N24		10N25	
9 Large Diameter Gas Lens	45V0204		45V0204	45V116		45V64		995795	
Nozzle Size — size # (inch)	4 (1/4)	5 (5/16)	6 (3/8)	7 (7/16)	8 (1/2)	10 (5/8)	12 (3/4)	Short	
10 Large Dia. Gas Lens	—	—	57N75	—	57N74	53N88	53N87	53N89	
* Large Dia. Gas Lens-L	—	—	57N75L	—	57N74L	53N88L	53N87L	—	
* Large Dia. Gas Lens-XL	—	—	57N75XL	—	57N74XL	53N88XL	53N87XL	—	
* Large Dia. Gas Lens-XXL	—	—	57N75XXL	—	57N74XXL	53N88XXL	53N87XXL	—	

Stubby Non-Gas Lens

Electrode Size — inch (mm)	.020 (0.5)	.040 (1.0)	1/16 (1.6)	3/32 (2.4)	1/8 (3.2)
11 Insulator (required)	18CG20	18CG20	18CG20	18CG20	18CG20
12 Stubby Collet	—	10N22S	10N23S	10N24S	10N25S
13 Stubby Collet Body	17CB20	17CB20	17CB20	17CB20	17CB20

Nozzle Size — size # (inch)	4 (1/4)	5 (5/16)	6 (3/8)	7 (7/16)	8 (1/2)	10 (5/8)	12 (3/4)	Short
14 Stubby Alumina	13N08	13N09	13N10	13N11	13N12	13N13	—	—

Stubby Gas Lens

Electrode Size — inch (mm)	.020 (0.5)	.040 (1.0)	1/16 (1.6)	3/32 (2.4)	1/8 (3.2)
15 Insulator (required)	17GLG20	17GLG20	17GLG20	17GLG20	17GLG20
12 Stubby Collet	—	10N22S	10N23S	10N24S	10N25S
16 Stubby Gas Lens	—	17GL040	17GL116	17GL332	17GL18

Nozzle Size — size # (inch)	4 (1/4)	5 (5/16)	6 (3/8)	7 (7/16)	8 (1/2)	10 (5/8)	12 (3/4)	Short
17 Alumina Gas Lens	53N58	53N59	53N60	53N61	53N61S	—	—	—

Back Caps

18 Short 57Y04	19 Medium 300M	20 Long 57Y02
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*Not shown.