Orbital Welding System Weld Head, Fixture Blocks, Side Plates, Plenum, and Collets



Series 10

- Available for tube outside diameters from 1/4 to 1 in. and 6 to 25 mm
- Provides higher output capabilities
- Offers versatility for use in a variety of industries



2 Orbital Welding System-Series 10

Series 10 Weld Head

- Is for outside weld joint diameters of 1/4 to 1 in. and 6 to 25 mm
- Offers optical speed control—no tachometer or calibration required
- Has polarized power connectors to ensure proper weld head/power supply connection
- Provides higher output capabilities:
 - Increased performance
 - Heavier-wall tubing or pipe applications.

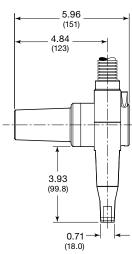
Series 10 Fixture Blocks, Side Plates, and Plenum

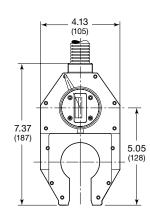
- Are for outside weld joint diameters of 1/4 to 1 in. and 6 to 25 mm
- Offer improved productivity from the ability to set up one fixture while welding with another fixture
- Fixture block includes centering gauge

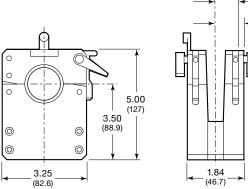
Ordering Information and Dimensions

Dimensions, in inches (millimeters) are for reference only and are subject to change.

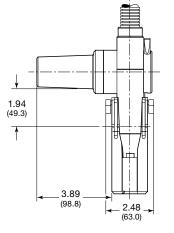
Weld Head

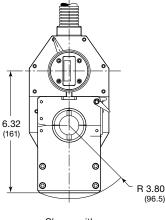






With standard counter-bored collets.
With non-counter-bored collets.





Shown with fixture attached

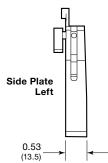
Description	Cable Length ft (m)	Ordering Number
Weld head (includes arc gap gauge, tool package, and tungsten electrodes)	15 (4.6)	SWS-10H-D-15
	35 (10.7)	SWS-10H-D-35
	50 (15.2)	SWS-10H-D-50

Cables attach directly to the Swagelok[®] M200 power supply. For Swagelok M100 and earlier power supply models, an adapter is required. Ordering number: **SWS-M100-WH-ADPTR**



Fixture Side Plates and Plenum

Plenum



0.78 (19.8) Side Plate Right

0.75

(19.0)^①

0.93

(23.6)2

Description	Ordering Number	
Fixture block	CWS-10TFB	
Fixture side plate-left	CWS-10TSPL	
Fixture side plate-right	CWS-10TSPR	
Plenum	CWS-10PLEN	

Fixture Block

Swagelok

Tube Collets

- Are removable to allow for easy component size changes
- Hold components rigidly during welding
- Unique universal collet design holds components with a ± 0.005 in. (0.13 mm) tube outside diameter variation.
- Are offered in counter-bored and non-counter-bored styles for a full range of applications

Ordering Information

Counter-Bored Collets

Standard series 10 collets are counter-bored to offer greater clearance for welding components. Two collet halves are required per side plate.

Non-Counter-Bored Collets

Non-counter-bored collets provide ease of alignment. Two collet halves are required per side plate.

To order, add **T** to the ordering number.

Example: CWS-10UCI-04T



er
4
5
6
8
0
2
4
6

Collet Size mm	Collet Half Ordering Number		
6	CWS-10UCI-06MM		
8	CWS-10UCI-08MM		
10	CWS-10UCI-10MM		
12	CWS-10UCI-12MM		
14	CWS-10UCI-14MM		
15	CWS-10UCI-15MM		
16	CWS-10UCI-16MM		
18	CWS-10UCI-18MM		
19	CWS-10UCI-19MM		
20	CWS-10UCI-20MM		
22	CWS-10UCI-22MM		
23	CWS-10UCI-23MM		
25	CWS-10UCI-25MM		

Options and Accessories

Weld Head Extension Cables

Swagelok weld head extension cables enable weld head operation away from the M200 power supply, up to a total cable length of 200 ft (61 m).

See the Swagelok Series 10 Weld Head User's Manual, <u>MS-13-204</u>, for information on weld head performance with optional weld head extension cables.



Weld Head Adapter Cable

The weld head adapter cable allows connection from earlier

Swagelok 10H-B model weld heads to the Swagelok M200 power supply.

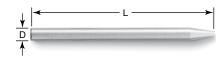
Ordering number: SWS-M200-WH-ADPTR



Extension Cable ft (m)	Ordering Number
35 (10.7)	SWS-WHEC-D-35
50 (15.2)	SWS-WHEC-D-50

Tungsten Electrodes

Swagelok electrodes, available in packages of ten, provide consistent, repeatable welds. Electrodes consist of 2 % ceriated tungsten, axially ground to rigid specifications.



Weld Joint Nominal Outside Diameter		Electrode Diameter (D)	Electrode Length (L)	Ordering
in.	mm	in. (mm)	in. (mm)	Number
1/4 through 5/8	6 through 16		1.105 (28.1)	CWS-C.062-1.105-P
3/4 through 1	18 through 25	0.062 (1.5)	0.855 (21.7)	CWS-C.062855-P



Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Do not mix/interchange Swagelok products or components not governed by industrial design standards, including Swagelok tube fitting end connections, with those of other manufacturers.

Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.