



## FRK Range



**Welding Tools for the Professional**

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# Introduction

FRK wear parts are all purpose consumable items used in addition to a Standard Gas Lens Body set-up.

With a Secondary Replaceable Gauze set in the Nozzle these set-ups have a wider gas envelope for better weld protection and quality results.

Available as Standard Ceramic and High Performance Quartz.

The system allows for a longer stick out of the electrode giving both better access into more difficult to reach joints and improved visibility.

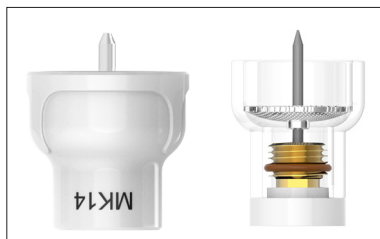
Traditionally used when welding more challenging and exotic materials, the system has now become more widely used as a result of giving the welder a greater degree of flexibility from a single set-up.

The Parker FRK series nozzles can be used on all materials and processes (including Pulse with Quartz set-ups) and have a simple and easy to replace front gauze set that pushes into place with a screen installation tool.

## Set-Up Overview

### Gas Lens Body Set-Up

Recommended Set-Up Parameters For Steel, Aluminum Stainless Steel, Chromoly, Titanium Inconel and other Space Grade Alloys.



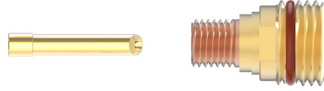
Nozzle Size	Bore Size	Suggested Gas Flow Rate	Maximum Tungsten Stick-out	Ceramic Nozzle	Quartz Option	Tungsten Size (mm)						
						1.0	1.6	2.4	3.2	4.0	4.8	6.4
10	17mm-5/8"	12 l/min	20mm	●	●	●	●	●	●	●	●	●
12	20mm-3/4"	12-14 l/min	25mm	●	●	●	●	●	●	●	●	●
14	23mm-15/16"	14-17 l/min	25mm	●	●	●	●	●	●	●	●	●
16	25mm-1"	14-21 l/min	35mm	●	●	●	●	●	●	●	●	●

Note:

Maximum Recommended Tungsten for Quartz is 3.2mm

- Max Amps with 1/16"-1.6mm Tungsten 70-150A DC / 60-125A AC
- Max Amps with 3/32"-2.4mm Tungsten 150-250A DC / 120-210A AC
- Max Amps with 1/8"-3.2mm Tungsten 225-330A DC / 150-250A AC

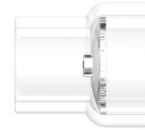
A minimum electrode stick out of 5mm is recommended when using Aluminum processes to prevent clogging of gauze set from weld fume and spatter.



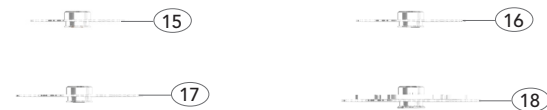
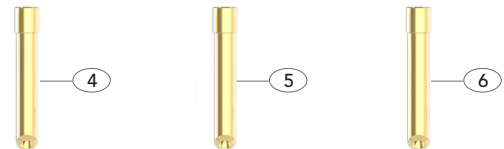
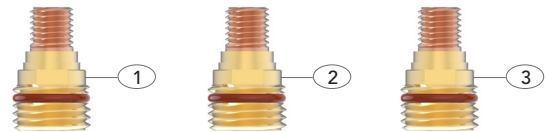
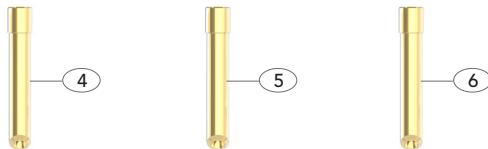
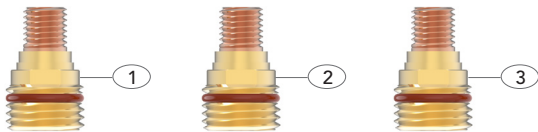
Ceramic



Quartz



The O Ring is not needed when using Ceramic Cups



# FRK9 / 20 Kit

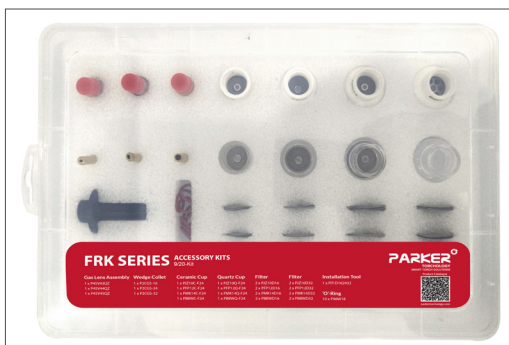
## FRK9/20 Kit Complete Kit Includes:

Part Number	Description
1 P45V43QZ	Gas Lens Assembly 1/16"-1.6mm With 'O' Ring
2 P45V44QZ	Gas Lens Assembly 3/32"-2.4mm With 'O' Ring
3 P45V45QZ	Gas Lens Assembly 1/8"-3.2mm With 'O' Ring
4 P2CGS-16	Wedge Collet 1/16"-1.6mm
5 P2CGS-24	Wedge Collet 3/32"-2.4mm
6 P2CGS-32	Wedge Collet 1/8"-3.2mm
7 PJZ10C-F24	JZ10 Ceramic Cup-Bore 17mm With 2.4mm Filter Screen
8 PFP12C-F24	FP12 Ceramic Cup-Bore 20mm With 2.4mm Filter Screen
9 PMK14C-F24	MK14 Ceramic Cup-Bore 23mm With 2.4mm Filter Screen
10 PBBWC-F24	BBW Ceramic Cup-Bore 25mm With 2.4mm Filter Screen
11 PJZ10Q-F24	JZ10 Quartz Cup-Bore 17mm With 2.4mm Filter Screen
12 PFP12Q-F24	FP12 Quartz Cup-Bore 20mm With 2.4mm Filter Screen
13 PMK14Q-F24	MK14 Quartz Cup-Bore 23mm With 2.4mm Filter Screen
14 PBBWQ-F24	BBW Quartz Cup-Bore 25mm With 2.4mm Filter Screen

Part Number	Description
15 PJZ10D16	JZ10 Cup Filter Screen 1/16"-1.6mm
PJZ10D32	JZ10 Cup Filter Screen 1/8"-3.2mm
16 PFP12D16	FP12 Cup Filter Screen 1/16"-1.6mm
PFP12D32	FP12 Cup Filter Screen 1/8"-3.2mm
17 PMK14D16	MK14 Cup Filter Screen 1/16"-1.6mm
PMK14D32	MK14 Cup Filter Screen 1/8"-3.2mm
18 PBBWD16	BBW Cup Filter Screen 1/16"-1.6mm
PBBWD32	BBW Cup Filter Screen 1/8"-3.2mm
19 P98W18	Red Silicone Rubber 'O' Ring
20 PIT-D162432	Filter Screen Installation Tool

Note: Filter Screens are not interchangeable with OEM Furick® systems

## FRK9 / 20 Kit Packaging

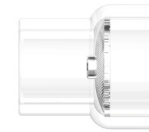




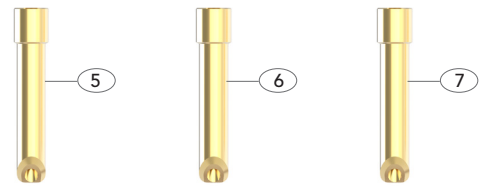
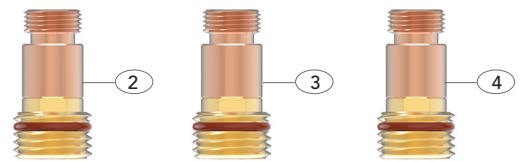
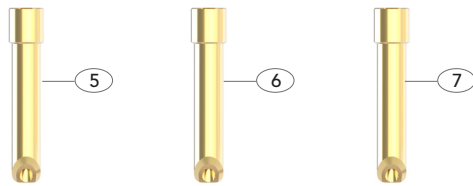
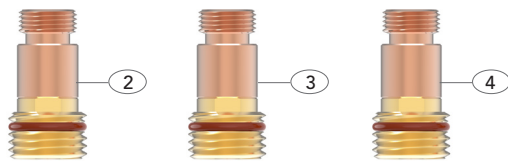
**Ceramic**



**Quartz**



The O Ring is not needed when using Ceramic Cups



# FRK17 / 18 / 26 Kit

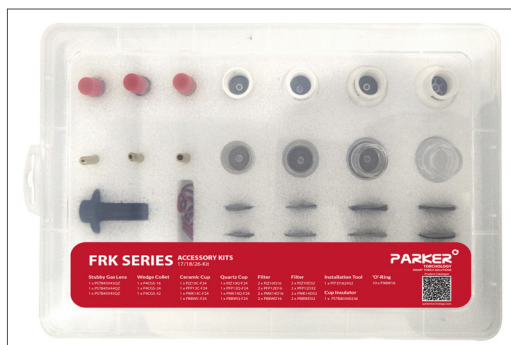
## FRK17/18/26 Kit Complete Kit Includes:

Part Number	Description
1 PSTB80300236	Stubby Series Cup Insulator
2 PSTB45V43QZ	Stubby Gas Lens 1/16"-1.6mm With 'O' Ring
3 PSTB45V44QZ	Stubby Gas Lens 3/32"-2.4mm With 'O' Ring
4 PSTB45V45QZ	Stubby Gas Lens 1/8"-3.2mm With 'O' Ring
5 P4CGS-16	Wedge Collet 1/16"-1.6mm
6 P4CGS-24	Wedge Collet 3/32"-2.4mm
7 P4CGS-32	Wedge Collet 1/8"-3.2mm
8 PJZ10C-F24	JZ10 Ceramic Cup-Bore 17mm With 2.4mm Filter Screen
9 PFP12C-F24	FP12 Ceramic Cup-Bore 20mm With 2.4mm Filter Screen
10 PMK14C-F24	MK14 Ceramic Cup-Bore 23mm With 2.4mm Filter Screen
11 PBBWC-F24	BBW Ceramic Cup-Bore 25mm With 2.4mm Filter Screen
12 PJZ10Q-F24	JZ10 Quartz Cup-Bore 17mm With 2.4mm Filter Screen
13 PFP12Q-F24	FP12 Quartz Cup-Bore 20mm With 2.4mm Filter Screen
14 PMK14Q-F24	MK14 Quartz Cup-Bore 23mm With 2.4mm Filter Screen
15 PBBWQ-F24	BBW Quartz Cup-Bore 25mm With 2.4mm Filter Screen

Part Number	Description
16 PJZ10D16	JZ10 Cup Filter Screen 1/16"-1.6mm
PJZ10D32	JZ10 Cup Filter Screen 1/8"-3.2mm
17 PFP12D16	FP12 Cup Filter Screen 1/16"-1.6mm
PFP12D32	FP12 Cup Filter Screen 1/8"-3.2mm
18 PMK14D16	MK14 Cup Filter Screen 1/16"-1.6mm
PMK14D32	MK14 Cup Filter Screen 1/8"-3.2mm
19 PBBWD16	BBW Cup Filter Screen 1/16"-1.6mm
PBBWD32	BBW Cup Filter Screen 1/8"-3.2mm
20 P98W18	Red Silicone Rubber 'O' Ring
21 PIT-D162432	Filter Screen Installation Tool

Note: Filter Screens are not interchangeable with OEM Furick® systems

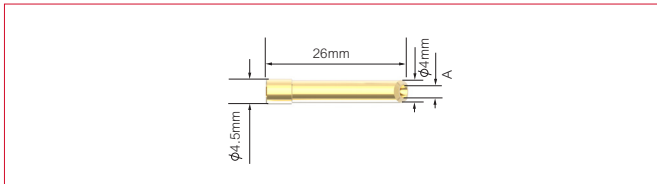
## FRK17 / 18 / 26 Kit Packaging



## Wedge Collets

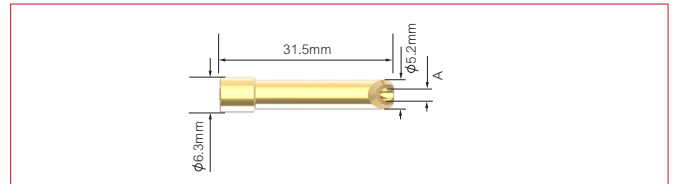
### WP 9/20

Part No.	Description	Bore	
		mm	inch
P2CGS-16	Wedge Collet	1.6	1/16
P2CGS-24	Wedge Collet	2.4	3/32
P2CGS-32	Wedge Collet	3.2	1/8



### WP 17/18/26

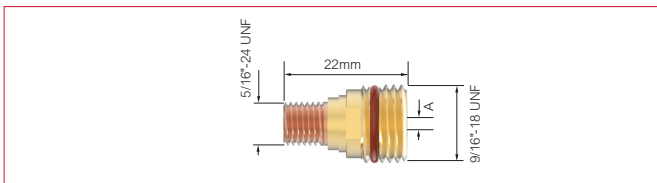
Part No.	Description	Bore	
		mm	inch
P4CGS-16	Wedge Collet	1.6	1/16
P4CGS-24	Wedge Collet	2.4	3/32
P4CGS-32	Wedge Collet	3.2	1/8



## Gas Lens

### WP 9/20

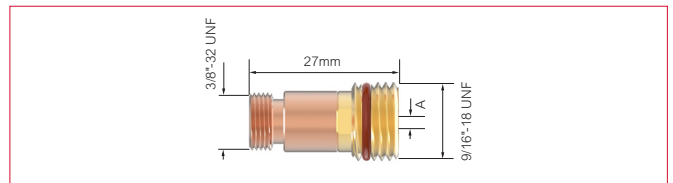
Part No.	Description	Bore	
		mm	inch
P45V43QZ	Gas Lens With'O'- Ring	1.6	1/16
P45V44QZ	Gas Lens With'O'- Ring	2.4	3/32
P45V45QZ	Gas Lens With'O'- Ring	3.2	1/8



## Stubby Gas Lens

### WP 17/18/26

Part No.	Description	Bore	
		mm	inch
PSTB45V43QZ	Stubby Gas Lens With'O'- Ring	1.6	1/16
PSTB45V44QZ	Stubby Gas Lens With'O'- Ring	2.4	3/32
PSTB45V45QZ	Stubby Gas Lens With'O'- Ring	3.2	1/8





## Ceramic Cups

### WP 9/17/18/20/26

Part No.	Description	Bore	
		mm	inch
PJZ10C-F16	JZ10 Ceramic Cup-Bore 17mm With Filter Screen	1.6	1/16
PJZ10C-F24	JZ10 Ceramic Cup-Bore 17mm With Filter Screen	2.4	3/32
PJZ10C-F32	JZ10 Ceramic Cup-Bore 17mm With Filter Screen	3.2	1/8



### WP 9/17/18/20/26

Part No.	Description	Bore	
		mm	inch
PFP12C-F16	FP12 Ceramic Cup-Bore 20mm With Filter Screen	1.6	1/16
PFP12C-F24	FP12 Ceramic Cup-Bore 20mm With Filter Screen	2.4	3/32
PFP12C-F32	FP12 Ceramic Cup-Bore 20mm With Filter Screen	3.2	1/8



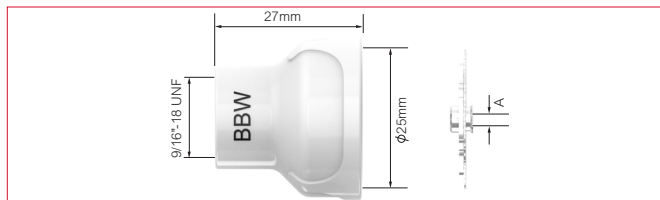
### WP 9/17/18/20/26

Part No.	Description	Bore	
		mm	inch
PMK14C-F16	MK14 Ceramic Cup-Bore 23mm With Filter Screen	1.6	1/16
PMK14C-F24	MK14 Ceramic Cup-Bore 23mm With Filter Screen	2.4	3/32
PMK14C-F32	MK14 Ceramic Cup-Bore 23mm With Filter Screen	3.2	1/8



### WP 9/17/18/20/26

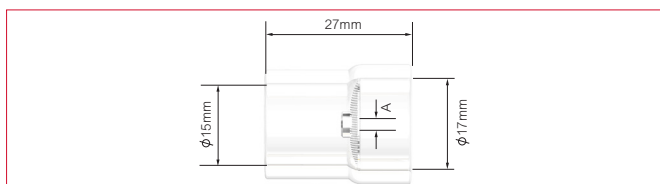
Part No.	Description	Bore	
		mm	inch
PBBWC-F16	BBW Ceramic Cup-Bore 25mm With Filter Screen	1.6	1/16
PBBWC-F24	BBW Ceramic Cup-Bore 25mm With Filter Screen	2.4	3/32
PBBWC-F32	BBW Ceramic Cup-Bore 25mm With Filter Screen	3.2	1/8



## Quartz Cups

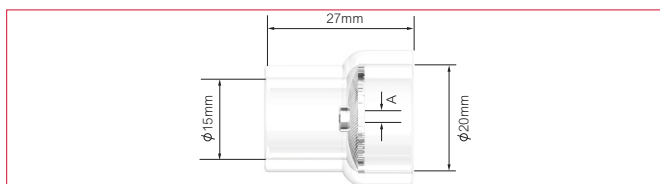
### WP 9/17/18/20/26

Part No.	Description	Bore	
		mm	inch
PJZ10Q-F16	JZ10 Quartz Cup-Bore 17mm With Filter Screen	1.6	1/16
PJZ10Q-F24	JZ10 Quartz Cup-Bore 17mm With Filter Screen	2.4	3/32
PJZ10Q-F32	JZ10 Quartz Cup-Bore 17mm With Filter Screen	3.2	1/8



### WP 9/17/18/20/26

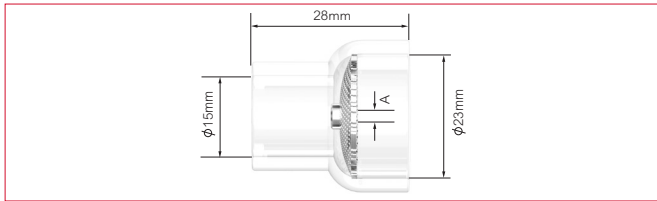
Part No.	Description	Bore	
		mm	inch
PFP12Q-F16	FP12 Quartz Cup-Bore 20mm With Filter Screen	1.6	1/16
PFP12Q-F24	FP12 Quartz Cup-Bore 20mm With Filter Screen	2.4	3/32
PFP12Q-F32	FP12 Quartz Cup-Bore 20mm With Filter Screen	3.2	1/8



## Quartz Cups

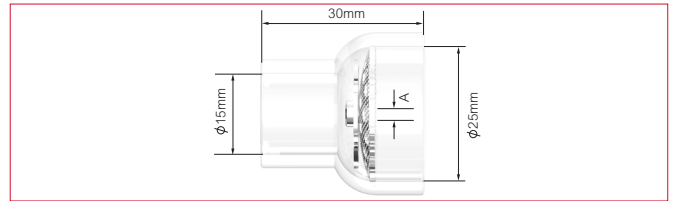
### WP 9/17/18/20/26

Part No.	Description	Bore	
		mm	inch
PMK14Q-F16	MK14 Quartz Cup-Bore 23mm With Filter Screen	1.6	1/16
PMK14Q-F24	MK14 Quartz Cup-Bore 23mm With Filter Screen	2.4	3/32
PMK14Q-F32	MK14 Quartz Cup-Bore 23mm With Filter Screen	3.2	1/8



### WP 9/17/18/20/26

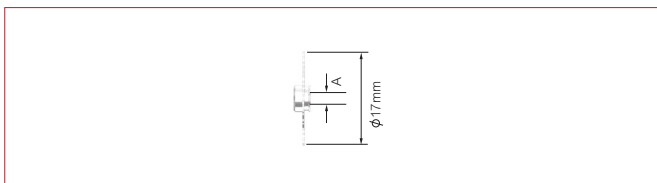
Part No.	Description	Bore	
		mm	inch
PBBWQ-F16	BBW Quartz Cup-Bore 25mm With Filter Screen	1.6	1/16
PBBWQ-F24	BBW Quartz Cup-Bore 25mm With Filter Screen	2.4	3/32
PBBWQ-F32	BBW Quartz Cup-Bore 25mm With Filter Screen	3.2	1/8



## Filter Screens

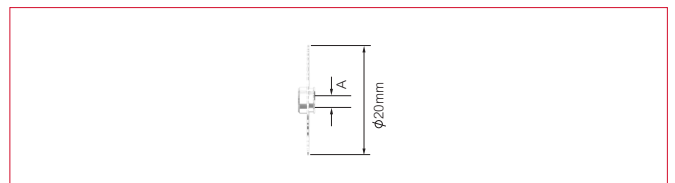
### WP 9/17/18/20/26

Part No.	Description	Bore	
		mm	inch
PJZ10D16	JZ10 Cup Filter Screen	1.6	1/16
PJZ10D24	JZ10 Cup Filter Screen	2.4	3/32
PJZ10D32	JZ10 Cup Filter Screen	3.2	1/8



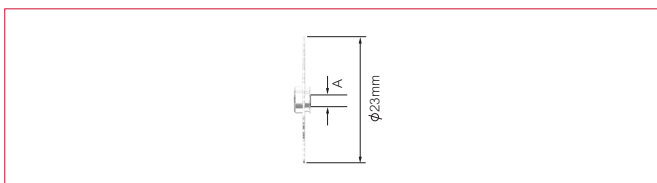
### WP 9/17/18/20/26

Part No.	Description	Bore	
		mm	inch
PFP12D16	FP12 Cup Filter Screen	1.6	1/16
PFP12D24	FP12 Cup Filter Screen	2.4	3/32
PFP12D32	FP12 Cup Filter Screen	3.2	1/8



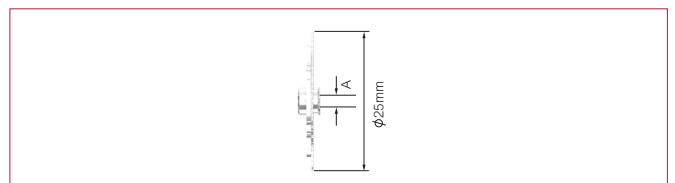
### WP 9/17/18/20/26

Part No.	Description	Bore	
		mm	inch
PMK14D16	MK14 Cup Filter Screen	1.6	1/16
PMK14D24	MK14 Cup Filter Screen	2.4	3/32
PMK14D32	MK14 Cup Filter Screen	3.2	1/8



### WP 9/17/18/20/26

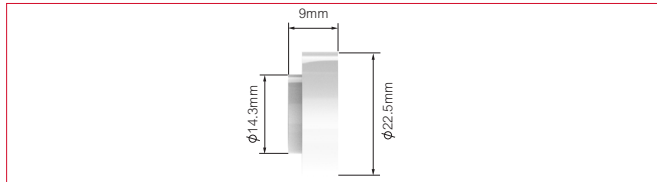
Part No.	Description	Bore	
		mm	inch
PBBWD16	BBW Cup Filter Screen	1.6	1/16
PBBWD24	BBW Cup Filter Screen	2.4	3/32
PBBWD32	BBW Cup Filter Screen	3.2	1/8



## Stubby Series Cup Insulator

### WP 17/18/26

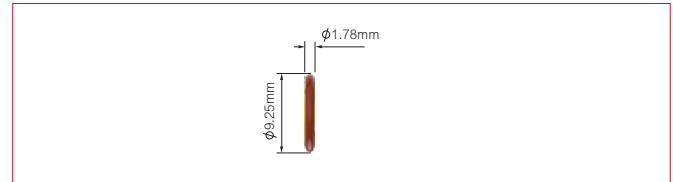
Part No.	Description
PSTB80300236	Stubby Series Cup Insulator



## Red Silicone Rubber 'O'-Ring

### WP 9/17/18/20/26

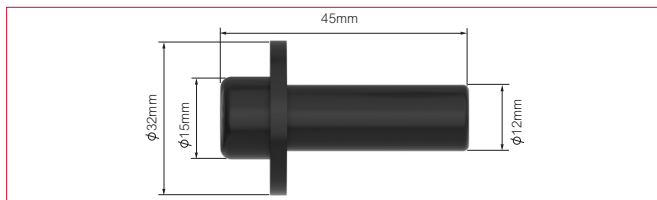
Part No.	Description
P98W18	Red Silicone Rubber 'O'-Ring



## Filter Screen Installation Tool

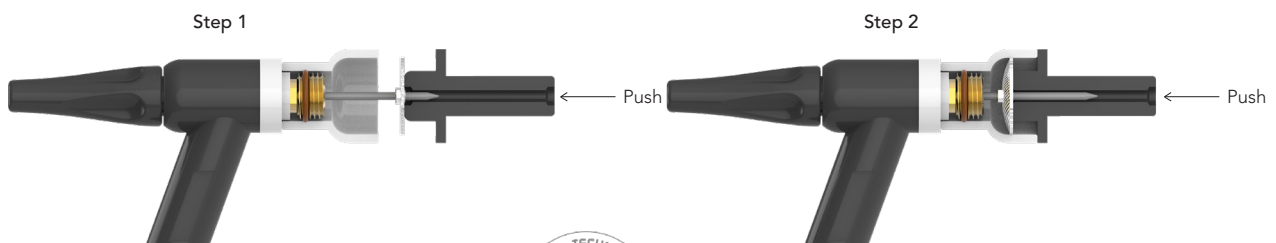
### WP 9/17/18/20/26

Part No.	Description
PIT-D162432	Filter Screen Installation Tool



## Filter Screen Installation Guide

### How To Install:



### How To Disassemble:





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