



Product Catalogue FRK Range



FRK Range Wear Parts

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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 Uniarc 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	Nozzle Size Bore Size	e Gas Flow Tu	Tungsten Ceramic	Ceramic Quartz Nozzle Option			Tungsten Size (mm)						
				INOZZIC	Орион	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
 Max Amps with 3/32"-2.4mm Tungsten
 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.











FRK9 / 20 Kit



FRK9/20 Kit Complete Kit Includes:

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Part	Number	Description

1	U45V43QZ	Gas Lens Assembly 1/16"-1.6mm With 'O' Ring
2	U45V44QZ	Gas Lens Assembly 3/32"-2.4mm With 'O' Ring
3	U45V45QZ	Gas Lens Assembly 1/8"-3.2mm With 'O' Ring

4	2CGS-16	Wedge Collet 1/16"-1.6mm
5	2CGS-24	Wedge Collet 3/32"-2.4mm
6	2CGS-32	Wedge Collet 1/8"-3.2mm
J	2003-32	Weage Collect 1/0 -3.211111

7	JZ10C-F24	JZ10 Ceramic Cup-Bore 17mm With 2.4mm Filter Screen
8	FP12C-F24	FP12 Ceramic Cup-Bore 20mm With 2.4mm Filter Screen
9	MK14C-F24	MK14 Ceramic Cup-Bore 23mm With 2.4mm Filter Screen
10	BBWC-F24	BBW Ceramic Cup-Bore 25mm With 2.4mm Filter Screen

11 JZ10Q-F24	JZ10 Quartz Cup-Bore 17mm With 2.4mm Filter Screen
12 FP12Q-F24	FP12 Quartz Cup-Bore 20mm With 2.4mm Filter Screen
13 MK14Q-F24	MK14 Quartz Cup-Bore 23mm With 2.4mm Filter Screen
14 BBWQ-F24	BBW Quartz Cup-Bore 25mm With 2.4mm Filter Screen

Part Number Description

15 JZ10D16	JZ10 Cup Filter Screen 1/16"-1.6mm
JZ10D32	JZ10 Cup Filter Screen 1/8"-3.2mm
16 FP12D16	FP12 Cup Filter Screen 1/16"-1.6mm
FP12D32	FP12 Cup Filter Screen 1/8"-3.2mm

Note: Filter Screens are not interchangeable with OEM Furick $^{\otimes}$ systems

17 MK14D16	MK14 Cup Filter Screen 1/16"-1.6mm
MK14D32	MK14 Cup Filter Screen 1/8"-3.2mm
18 BBWD16	BBW Cup Filter Screen 1/16"-1.6mm
BBWD32	BBW Cup Filter Screen 1/8"-3.2mm

19 U98W18	Red Silicone Rubber 'O' Ring
20 IT-D162432	Filter Screen Installation Tool

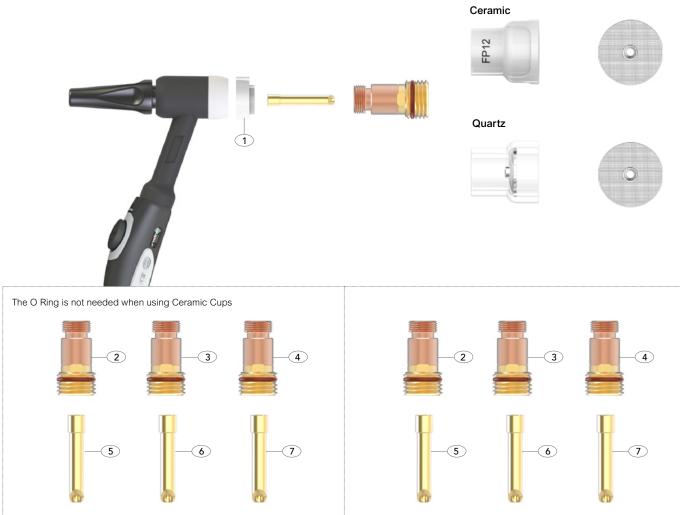
FRK9 / 20 Kit Packaging

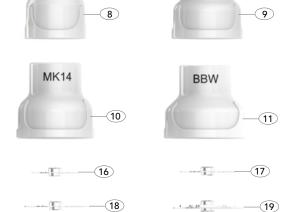


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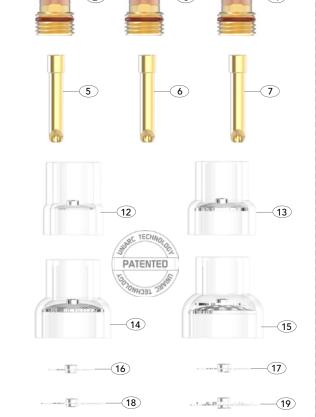






FP12

JZ10







FRK17 / 18 / 26 Kit



FRK17/18/26 Kit Complete Kit Includes:

	Part Number	Description	Part Number	Description				
2	USTB80300236 USTB45V43QZ USTB45V44QZ USTB45V45QZ	JSTB45V43QZ Stubby Gas Lens 1/16"-1.6mm With 'O' Ring JSTB45V44QZ Stubby Gas Lens 3/32"-2.4mm With 'O' Ring		JZ10 Cup Filter Screen 1/16"-1.6mm JZ10 Cup Filter Screen 1/8"-3.2mm FP12 Cup Filter Screen 1/16"-1.6mm FP12 Cup Filter Screen 1/8"-3.2mm				
			Note:Filter Screens	are not interchangeable with OEM Furick® systems				
5	4CGS-16	Wedge Collet 1/16"-1.6mm						
6	4CGS-24	Wedge Collet 3/32"-2.4mm	18 MK14D16	MK14 Cup Filter Screen 1/16"-1.6mm				
7	4CGS-32	Wedge Collet 1/8"-3.2mm	MK14D32	MK14 Cup Filter Screen 1/8"-3.2mm				
_			19 BBWD16	BBW Cup Filter Screen 1/16"-1.6mm				
			BBWD32	BBW Cup Filter Screen 1/8"-3.2mm				
8 9	JZ10C-F24 FP12C-F24	JZ10 Ceramic Cup-Bore 17mm With 2.4mm Filter Screen FP12 Ceramic Cup-Bore 20mm With 2.4mm Filter Screen						
	MK14C-F24	MK14 Ceramic Cup-Bore 23mm With 2.4mm Filter Screen	20 1100\\/10	Deal Ciliana Bulblan (O) Biran				
	BBWC-F24	BBW Ceramic Cup-Bore 25mm With 2.4mm Filter Screen	20 U98W18 21 IT-D162432	Red Silicone Rubber 'O' Ring Filter Screen Installation Tool				

FRK17 / 18 / 26 Kit

12 JZ10Q-F24

13 FP12Q-F24

14 MK14Q-F2415 BBWQ-F24



JZ10 Quartz Cup - Bore 17mm With 2.4mm Filter Screen

FP12 Quartz Cup- Bore 20mm With 2.4mm Filter Screen MK14 Quartz Cup-Bore 23mm With 2.4mm Filter Screen

BBW Quartz Cup-Bore 25mm With 2.4mm Filter Screen

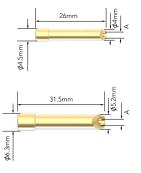
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Wedae	e Collets					~		
Part No. Description		Boi	Bore A			WP18	WP2C	WP26
2CGS-16	Wedge Collet	1.6mm	1/16"	•		•	•	
2CGS-24	Wedge Collet	2.4mm	3/32"					
2CGS-32	Wedge Collet	3.2mm	1/8"				•	
	,	,	'					
4CGS-16	Wedge Collet	1.6mm	1/16"					
4CGS-24	Wedge Collet	2.4mm	3/32"					

3.2mm

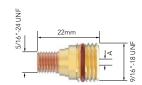
1/8"



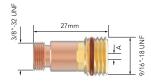
4CGS-32

Wedge Collet

Gas Ler	1S Description	Bo	re A	WPg	WP17	WP ₁₈	WP20	WP26
r art ito:	2000111011							
U45V43QZ	Gas Lens With'O'- Ring	1.6mm	1/16"	•			•	
U45V44QZ	Gas Lens With'O'- Ring	2.4mm	3/32"					
U45V45QZ	Gas Lens With'O'- Ring	3.2mm	1/8"				•	



Stubby Part No.	Gas Lens Description	Bore A		WP9	WP17	WP ₁₈	WP20	WP ₂₆
USTB45V43QZ	Stubby Gas Lens With'O'- Ring	1.6mm	1/16"					
USTB45V44QZ	Stubby Gas Lens With'O'- Ring	2.4mm	3/32"					



USTB45V43QZ	Stubby Gas Lens With'O'- Ring	1.6mm	1/16"				
USTB45V44QZ	Stubby Gas Lens With'O'- Ring	2.4mm	3/32"				
USTB45V45QZ	Stubby Gas Lens With'O'- Ring	3.2mm	1/8"			•	
							_

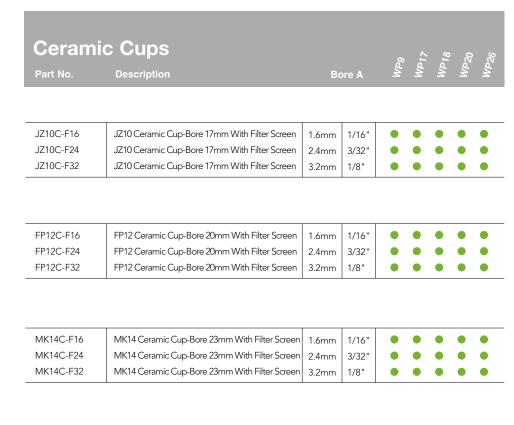


9/16"-18 UNF

JZ

FP12

27mm





BBWC-F16	BBW Ceramic Cup-Bore 25mm With Filter Screen	1.6mm	1/16"	•				
BBWC-F24	BBW Ceramic Cup-Bore 25mm With Filter Screen	2.4mm	3/32"	•				
BBWC-F32	BBW Ceramic Cup-Bore 25mm With Filter Screen	3.2mm	1/8"	•	•	•	•	•

27mm www.51\phi www.27mm ww.21\phi ww.02\phi w

Part No.	Description	Вс	ore A	W	WP	WP	WP	Š
JZ10Q-F16	JZ10 Quartz Cup-Bore 17mm With Filter Screen	1.6mm	1/16"	•	•	•	•	•
JZ10Q-F24	JZ10 Quartz Cup-Bore 17mm With Filter Screen	2.4mm	3/32"					•
JZ10Q-F32	JZ10 Quartz Cup-Bore 17mm With Filter Screen	3.2mm	1/8"		•			
		T						
FP12Q-F16	FP12 Quartz Cup-Bore 20mm With Filter Screen	1.6mm	1/16"	•	•	•	•	•
FP12Q-F16 FP12Q-F24	FP12 Quartz Cup-Bore 20mm With Filter Screen FP12 Quartz Cup-Bore 20mm With Filter Screen	1.6mm 2.4mm	1/16"	•	•	•	•	•

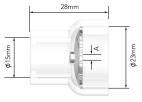
Standard wear part range

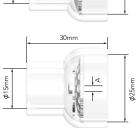
Quartz Cups

Torch package standard wear part set-up









MK14Q-F16	MK14 Quartz Cup-Bore 23mm With Filter Screen	1.6mm	1/16"	•	•	•	•	•
MK14Q-F24	MK14 Quartz Cup-Bore 23mm With Filter Screen	2.4mm	3/32"					
MK14Q-F32	MK14 Quartz Cup-Bore 23mm With Filter Screen	3.2mm	1/8"		•	•		•

BBWQ-F16	BBW Quartz Cup-Bore 25mm With Filter Screen	1.6mm	1/16"	•	•	•	•	•
BBWQ-F24	BBW Quartz Cup-Bore 25mm With Filter Screen	2.4mm	3/32"	•				
BBWQ-F32	BBW Quartz Cup-Bore 25mm With Filter Screen	3.2mm	1/8"	•	•	•	•	

Filter Screens

Bore A

WP9 WP17 WP20 WP26







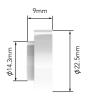


r uit ito.	Description							
JZ10D16	JZ10 Cup Filter Screen	1.6mm	1/16"	•	•	•	•	•
JZ10D24	JZ10 Cup Filter Screen	2.4mm	3/32"					
JZ10D32	JZ10 Cup Filter Screen	3.2mm	1/8"	•	•		•	•
		1						
FP12D16	FP12 Cup Filter Screen	1.6mm	1/16"					
FP12D24	FP12 Cup Filter Screen	2.4mm	3/32"					
FP12D32	FP12 Cup Filter Screen	3.2mm	1/8"		•	•		
	I	I						
MK14D16	MK14 Cup Filter Screen	1.6mm	1/16"					
MK14D24	MK14 Cup Filter Screen	2.4mm	3/32"					
MK14D32	MK14 Cup Filter Screen	3.2mm	1/8"	•				
-		1						
BBWD16	BBW Cup Filter Screen	1.6mm	1/16"					
BBWD24	BBW Cup Filter Screen	2.4mm	3/32"					
BBWD32	BBW Cup Filter Screen	3.2mm	1/8"	•	•	•	•	•

Standard wear part range

Torch package standard wear part set-up

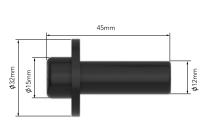










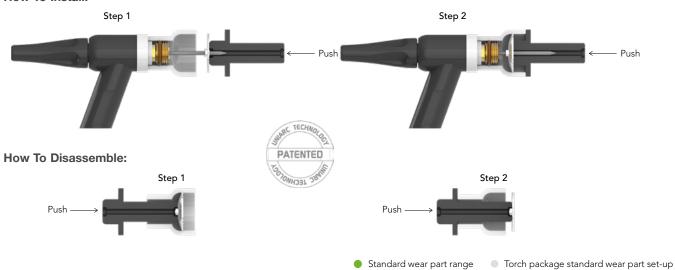


Filter Screen Installation Tool	9 17 18 20 26
Part No. Description	WP9 WP17 WP20 WP26

Filter Screen Installation Guide

IT-D162432

How To Install:



Filter Screen Installation Tool



Welding & Cutting Torch Technology

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