

# Compressed Air Interchangeable Elements Ultrafilter 80 and 90 Series

Engineering Data Sheet



## Description

The Par<>Fit design offers a comprehensive range of interchangeable filter elements from Parker, one of the world's leading manufacturer of compressed air treatment equipment with worldwide availability. Latest technologies, exceeding quality and service provide reliable performance, matching yet often surpassing the efficiency of original equipment manufacturer's elements.

## Area of Application

Element Grade	Area of Application
V-PE/V-SB PE/SB	High-capacitive surface filtration by pleated filter fabric for coarse separation of solid particulate.
FF	High-capacitive coalescing depth filtration by two-layered pleated filter fabric for general purpose separation of solid and liquid particulate.
MF/SMF	
AK	Adsorptive separation of oil vapours and odours by pleated filter fabric.

## Calculated Performance Criteria

Criteria according to:	V-PE/V-SB/PE/SB	FF	MF/SMF	AK
Flow medium	Compressed air and gaseous Nitrogen.			
Flow direction	Out to in	In to out	In to out	In to out
Operating temperature	1.5 - 80°C	1.5 - 80°C	1.5 - 80°C	1.5 - 40°C
Generic fineness	< 3 µm	< 1 µm	< 0.01 µm	n/a
Differential pressure - dry	20 mbar	30 mbar	60 mbar	30 mbar
Differential pressure - wet	70 mbar	100 mbar	150 mbar	n/a
Residual aerosol concentration	n/a	< 0.5 mg/m <sup>3</sup>	< 0.01 mg/m <sup>3</sup>	n/a
Residual oil concentration	n/a	n/a	n/a	< 0.003 mg/m <sup>3</sup>

## Materials of Construction

Criteria according to:	V-PE/V-SB/PE/SB	FF	MF/SMF	AK
Filter media	Cellulose fibre, coated	Borosilicate glass fibre		Activated woven carbon cloth
Support cylinders	Stainless perforated steel			
End caps	Aluminium			
Seals	High nitrile rubber			
Anti re-entrainment barrier	Polyester			
Adhesive	Two part polyurethane resin			

## Cross-References

OEM Ref.	PAR<->FIT Ref.	Qty	OEM Ref.	PAR<->FIT Ref.	Qty	OEM Ref.	PAR<->FIT Ref.	Qty
<b>Activated Carbon Elements (Element grade - AK)</b>								
AC02/05	PR2091355	1	AK02/10	PR2091360	1	80A-03/1	PR2090350	1
AC03/05	PR2091356	1	AK03/05	PR2091356	1	80A-03/1.5	PR2090361	1
AC03/10	PR2091370	1	AK03/10	PR2091370	1	80A-04/1.5	PR2090370	1
AC04/10	PR2091375	1	AK04/10	PR2091375	1	80A-04/2.5	PR2090380	1
AC04/20	PR2091380	1	AK04/20	PR2091380	1	80A-05/2.5	PR2090390	1
AC05/20	PR2091390	1	AK05/20	PR2091390	1	80A-05/3	PR2090400	1
AC05/25	PR2091400	1	AK05/25	PR2091400	1	80A-10/3	PR2090410	1
AC07/25	PR2091410	1	AK07/25	PR2091410	1	80A-15/3	PR2090420	1
AC07/30	PR2091420	1	AK07/30	PR2091420	1	80A-20/3	PR2090430	1
AC10/3	PR2090410	1	AK10/3	PR2090410	1	80A-30/3	PR2090440	1
AC10/30	PR2091430	1	AK10/30	PR2091430	1	80A-30/5	PR2090450	1
AC15/3	PR2090420	1	AK15/3	PR2090420	1	90A-02/05	PR2091355	1
AC15/30	PR2091440	1	AK15/30	PR2091440	1	90A-02/10	PR2091360	1
AC2/1.5	PR2090360	1	AK2/1.5	PR2090360	1	90A-03/05	PR2091356	1
AC20/10	PR2091360	1	AK20/3	PR2090430	1	90A-03/10	PR2091370	1
AC20/3	PR2090430	1	AK20/30	PR2091450	1	90A-04/10	PR2091375	1
AC20/30	PR2091450	1	AK3/1	PR2090350	1	90A-04/20	PR2091380	1
AC3/1	PR2090350	1	AK3/1.5	PR2090361	1	90A-05/20	PR2091390	1
AC3/1.5	PR2090361	1	AK30/3	PR2090440	1	90A-05/25	PR2091400	1
AC30/3	PR2090440	1	AK30/30	PR2091460	1	90A-07/30	PR2091420	1
AC30/30	PR2091460	1	AK30/5	PR2090450	1	90A-10/30	PR2091430	1
AC30/5	PR2090450	1	AK30/50	PR2091470	1	90A-15/30	PR2091440	1
AC4/1.5	PR2090370	1	AK4/1.5	PR2090370	1	90A-20/30	PR2091450	1
AC4/2.5	PR2090380	1	AK4/2.5	PR2090380	1	90A-30/30	PR2091460	1
AC5/2.5	PR2090390	1	AK5/2.5	PR2090390	1	90A-30/50	PR2061470	1
AC5/3	PR2090400	1	AK5/3	PR2090400	1			
AK02/05	PR2091355	1	80A-02/1.5	PR2090360	1			
<b>General Purpose Elements (Element grade s - FF)</b>								
AO02/05	PR2091115	1	PE/V-PE02/05	PR2090980	1	V-5/2.5	PR2090588	1
AO02/10	PR2091120	1	PE/V-PE02/10	PR2091000	1	V-5/3	PR2090590	1
AO03/05	PR2091116	1	PE/V-PE03/05	PR2090990	1	V-PE15/30	PR2091080	1
AO03/10	PR2091130	1	PE/V-PE03/10	PR2091010	1	V-PE20/3	PR2090620	1
AO04/10	PR2091135	1	PE/V-PE04/10	PR2091015	1	V-PE30/3	PR2090630	1
AO04/20	PR2091140	1	PE/V-PE04/20	PR2091020	1	V-PE30/5	PR2090640	1
AO05/20	PR2091150	1	PE/V-PE05/20	PR2091030	1	V-PE5/3	PR2090590	1
AO05/25	PR2091160	1	PE/V-PE05/25	PR2091040	1	V-SB5/2.5	PR2090588	1
AO07/25	PR2091170	1	PE/V-PE07/25	PR2091050	1	V-SB5/3	PR2090590	1
AO07/30	PR2091180	1	PE/V-PE07/30	PR2091060	1	80V-02/1.5	PR2090563	1
AO10/3	PR2090290	1	PE/V-PE10/30	PR2091070	1	80V-03/1	PR2090565	1
AO10/30	PR2091190	1	PE/V-PE15/30	PR2091080	1	80V-03/1.5	PR2090566	1
AO15/30	PR2091200	1	PE/V-PE20/30	PR2091090	1	80V-04/1.5	PR2090570	1
AO20/3	PR2090310	1	PE/V-PE30/30	PR2091100	1	80V-04/2.5	PR2090580	1
AO20/30	PR2091210	1	PE/V-PE30/50	PR2091110	1	80V-05/2.5	PR2090588	1
AO30/3	PR2090320	1	PE02/05	PR2090980	1	80V-05/3	PR2090590	1
AO30/30	PR2091220	1	PE02/10	PR2091000	1	80V-20/3	PR2090620	1
AO30/5	PR2090340	1	PE03/05	PR2090990	1	80V-30/3	PR2090630	1
AO30/50	PR2091230	1	PE03/10	PR2091010	1	80V-30/5	PR2090640	1
MF/FF02/05	PR2091115	1	PE04/10	PR2091015	1	80XP-02/1.5	PR2090230	1

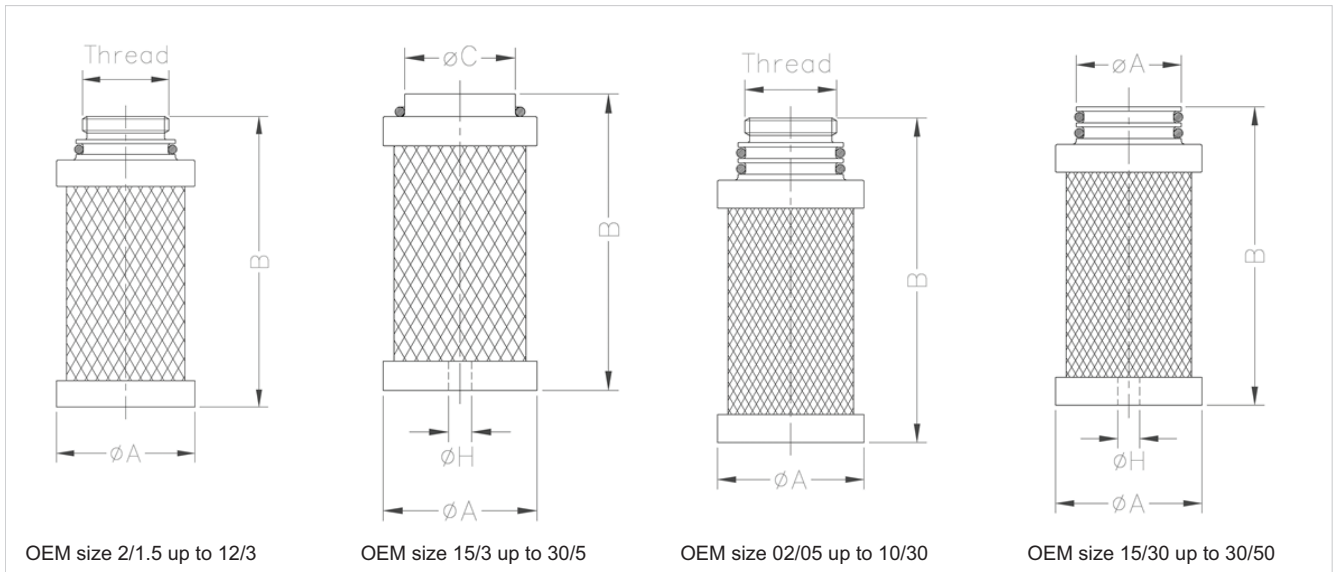
OEM Ref.	PAR<>FIT Ref.	Qty	OEM Ref.	PAR<>FIT Ref.	Qty	OEM Ref.	PAR<>FIT Ref.	Qty
MF/FF02/10	PR2091120	1	PE04/20	PR2091020	1	AO15/3	PR2090300	1
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MF/FF03/10	PR2091130	1	PE05/25	PR2091040	1	AO3/1	PR2090220	1
MF/FF04/10	PR2091135	1	PE07/25	PR2091050	1	AO3/1.5	PR2090240	1
MF/FF04/20	PR2091140	1	PE07/30	PR2091060	1	AO4/1.5	PR2090250	1
MF/FF05/20	PR2091150	1	PE10/30	PR2091070	1	AO4/2.5	PR2090260	1
MF/FF05/25	PR2091160	1	PE15/30	PR2091080	1	AO5/2.5	PR2090270	1
MF/FF07/25	PR2091170	1	PE20/30	PR2091090	1	AO5/3	PR2090280	1
MF/FF07/30	PR2091180	1	PE30/30	PR2091100	1	SB02/05	PR2090980	1
MF/FF10/30	PR2091190	1	PE30/50	PR2091110	1	SB02/10	PR2091000	1
MF/FF15/30	PR2091200	1	PF02/05	PR2090980	1	SB03/05	PR2090990	1
MF/FF20/30	PR2091210	1	PF02/10	PR2091000	1	SB03/10	PR2091010	1
MF/FF30/30	PR2091220	1	PF03/05	PR2090990	1	SB04/10	PR2091015	1
MF/FF30/50	PR2091230	1	PF03/10	PR2091010	1	SB04/20	PR2091020	1
MF02/05	PR2091115	1	PF04/10	PR2091015	1	SB05/20	PR2091030	1
MF02/10	PR2091120	1	PF04/20	PR2091020	1	SB05/25	PR2091040	1
MF03/05	PR2091116	1	PF05/20	PR2091030	1	SB07/25	PR2091050	1
MF03/10	PR2091130	1	PF05/25	PR2091040	1	SB07/30	PR2091060	1
MF04/10	PR2091135	1	PF07/25	PR2091050	1	SB10/30	PR2091070	1
MF04/20	PR2091140	1	PF07/30	PR2091060	1	SB15/30	PR2091080	1
MF05/20	PR2091150	1	PF10/30	PR2091070	1	SB20/30	PR2091090	1
MF05/25	PR2091160	1	PF15/30	PR2091080	1	SB30/30	PR2091100	1
MF07/25	PR2091170	1	PF2/1.5	PR2090563	1	SB30/50	PR2091110	1
MF07/30	PR2091180	1	PF20/30	PR2091090	1	V20/3	PR2090620	1
MF10/3	PR2090290	1	PF3/1	PR2090565	1	V-PE2/1.5	PR2090563	1
MF10/30	PR2091190	1	PF3/1.5	PR2090566	1	V-PE3/1.5	PR2090566	1
MF15/3	PR2090300	1	PF30/3	PR2090630	1	V-PE4/1.5	PR2090570	1
MF15/30	PR2091200	1	PF30/30	PR2091100	1	V-PE4/2.5	PR2090580	1
MF2/1.5	PR2090230	1	PF30/5	PR2090640	1			
MF20/3	PR2090310	1	PF30/50	PR2091110	1			
MF20/30	PR2091210	1	PF4/1.5	PR2090570	1			
MF3/1	PR2090220	1	PF4/2.5	PR2090580	1			
MF3/1.5	PR2090240	1	PF5/2.5	PR2090588	1			
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MF30/5	PR2090340	1	V-3/1	PR2090565	1			
MF30/50	PR2091230	1	V-3/1.5	PR2090566	1			
MF4/1.5	PR2090250	1	V-30/3	PR2090630	1			
MF4/2.5	PR2090260	1	V-30/5	PR2090640	1			
MF5/2.5	PR2090270	1	V-4/1.5	PR2090570	1			
MF5/3	PR2090280	1	V-4/2.5	PR2090580	1			
<b>High Efficiency Elements (Element grades - MF / SMF)</b>								
AA02/05	PR2091235	1	AA30/3	PR2090190	1	SMF10/3	PR2090160	1
AA02/10	PR2091240	1	AA30/30	PR2091340	1	SMF10/30	PR2091310	1
AA03/05	PR2091236	1	AA30/5	PR2090210	1	SMF15/3	PR2090170	1
AA03/10	PR2091250	1	AA30/50	PR2091350	1	SMF15/30	PR2091320	1
AA04/10	PR2091255	1	AA4/1.5	PR2090120	1	SMF20/3	PR2090180	1
AA04/20	PR2091260	1	AA4/2.5	PR2090130	1	SMF20/30	PR2091330	1
AA05/20	PR2091270	1	AA5/2.5	PR2090140	1	SMF3/1	PR2090100	1
AA05/25	PR2091280	1	AA5/3	PR2090150	1	SMF3/1.5	PR2090115	1
AA07/25	PR2091290	1	SMF02/05	PR2091235	1	SMF30/3	PR2090190	1

OEM Ref.	PAR<>FIT Ref.	Qty
AA07/30	PR2091300	1
AA10/3	PR2090160	1
AA10/30	PR2091310	1
AA15/3	PR2090170	1
AA15/30	PR2091320	1
AA20/20	PR2091330	1
AA20/3	PR2090180	1
AA3/1	PR2090100	1
AA3/1.5	PR2090115	1

OEM Ref.	PAR<>FIT Ref.	Qty
SMF02/10	PR2091240	1
SMF03/05	PR2091236	1
SMF03/10	PR2091250	1
SMF04/10	PR2091255	1
SMF04/20	PR2091260	1
SMF05/20	PR2091270	1
SMF05/25	PR2091280	1
SMF07/25	PR2091290	1
SMF07/30	PR2091300	1

OEM Ref.	PAR<>FIT Ref.	Qty
SMF30/30	PR2091340	1
SMF30/5	PR2090210	1
SMF30/50	PR2091350	1
SMF4/1.5	PR2090120	1
SMF4/2.5	PR2090130	1
SMF5/2.5	PR2090140	1
SMF5/3	PR2090150	1
PF20/3	PR2090620	1

## Weights and Dimensions



OEM Size	Dimension mm (ins)									Weight	
	A		B		Thread	C		H		kg	lbs
	mm	ins	mm	ins		mm	ins	mm	ins		
2/1.5	52	2.0	79	3.1	WI 1½ o	-	-	-	-	0.1	0.2
3/1	42	1.7	89	3.5	G 1 o	-	-	-	-	0.1	0.2
3/1.5	52	2.0	93	3.7	WI 1½ o	-	-	-	-	0.14	0.3
4/1.5	52	2.0	125	4.9	WI 1½ o	-	-	-	-	0.16	0.4
4/2.5	62	2.4	125	4.9	G 1 o	-	-	-	-	0.21	0.5
5/2.5	62	2.4	152	4.9	G 1 o	-	-	-	-	0.23	0.5
5/3	86	3.4	152	4.9	G 1 o	-	-	-	-	0.43	0.9
7/3	86	3.4	205	8.1	G 1 o	-	-	-	-	0.5	1.1
10/3	86	3.4	279	11.0	G 1 o	-	-	-	-	0.59	1.3
12/3	86	3.4	330	13.0	G 1 o	-	-	-	-	0.66	1.5
15/3	86	3.4	391	15.4	-	56	2.2	13.5 i	0.5	0.71	1.6
20/3	86	3.4	519	20.4	-	56	2.2	13.5 i	0.5	0.88	1.9
30/3	86	3.4	771	30.4	-	56	2.2	13.5 i	0.5	1.2	2.6
30/5	140	5.5	771	30.4	-	56	2.2	13.5 i	0.5	2.5	5.5
02/05	35	1.4	76	3.0	G ¾ o	-	-	-	-	0.08	0.2
02/10	42	1.7	94	3.7	G ¾ o	-	-	-	-	0.1	0.2
03/05	35	1.4	90	3.5	G ¾ o	-	-	-	-	0.1	0.2
03/10	42	1.7	94	3.7	G ¾ o	-	-	-	-	0.1	0.2
04/10	42	1.7	122	4.8	G ¾ o	-	-	-	-	0.12	0.3
04/20	52	2.0	128	5.0	G 1 o	-	-	-	-	0.17	0.4
05/20	52	2.0	150	5.9	G 1 o	-	-	-	-	0.19	0.4
05/25	62	2.4	151	5.9	G 1 o	-	-	-	-	0.23	0.5
07/25	62	2.4	204	8.0	G 1 o	-	-	-	-	0.28	0.6
07/30	86	3.4	206	8.1	G 2 o	-	-	-	-	0.5	1.1
10/30	86	3.4	280	11.0	G 2 o	-	-	-	-	0.59	1.3
15/30	86	3.4	397	15.6	-	61	2.4	13.5 i	0.5	0.74	1.6
20/30	86	3.4	525	20.7	-	61	2.4	13.5 i	0.5	0.91	2.0
30/30	86	3.4	777	30.6	-	61	2.4	13.5 i	0.5	1.2	2.6
30/50	140	5.5	777	30.6	-	89	3.5	13.5 i	0.5	2.45	5.4

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