

Replacements for FST EFST V/ZN/XN/A series from 2009 to date

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.

Design and Area of Application

The functional core of the filter elements is the wrapped fabric which offers an enlarged surface compared to conventional elements. Lower velocities result in lower differential pressures by simultaneous improvement in separation efficiency and dirt holding capacity.

Design acc. to:	Area of Application
V	High-capacitive surface filtration by wrapped filter fabric for coarse separation of solid particulate.
ZN	High-capacitive coalescing depth filtration by two-layered wrapped filter fabric for general purpose separation of solid and liquid particulate.
XN	High-capacitive coalescing depth filtration by four-layered wrapped filter fabric for sub-micron separation of solid and liquid particulate.
A	Adsorptive separation of oil vapours and odours by wrapped filter fabric.

Calculated Performance Criteria

Criteria acc. to:	V	ZN	XN	A
Flow medium	Compressed air			
Flow direction	in to out*			
Operating temperature	2 – 65 °C	2 – 80 °C		2 - 45 °C
Generic fineness	< 3 µm	< 1 µm	< 0.01 µm	n.a.
Nominal efficiency**	99.99 %	99.9999 %	99.99999 %	n.a.
Diff. pressure, dry	10 mbar	30 mbar	40 mbar	60 mbar
Diff. pressure, wet	20 mbar	125 mbar	140 mbar	n.a.
Residual aerosole conc.	n.a.	< 0.5 mg/m ³	< 0.01 mg/m ³	n.a.
Residual oil conc.	n.a.	n.a.	n.a.	<0.003 mg/m ³

All data in accordance to nominal volume flow capacities. *Preferred flow direction.

Materials of Construction

Materials acc. to:	V	ZN / XN	A
Fabric	Cellulose fibre, coated	Borosilicate microfibre (96 % void volume) with Polypropylene support fabric and integrated Parafil drainage fabric	Activated woven carbon cloth
Support cylinders	stainless steel expanded mesh		
End caps	Aluminium or Polyamide, glass fibre reinforced		
Seals	NBR (high nitrile)		
Adhesive	Polyurethane, solvent-free		

Nominal Volume Flow Capacities

OEM element reference	Volume flow*
EFST 25 V,ZN,XN,A	35
EFST 30 V,ZN,XN,A	50
EFST 50 V,ZN,XN,A	70
EFST 70 V,ZN,XN,A	100
EFST 90 V,ZN,XN,A	160
EFST 110 V,ZN,XN,A	330

OEM element reference	Volume flow*
EFST 120 V,ZN,XN,A	500
EFST 130 V,ZN,XN,A	800
EFST 140 V,ZN,XN,A	1000
EFST 170 V,ZN,XN,A	1500
EFST 180 V,ZN,XN,A	2000
EFST 190 V,ZN,XN,A	2500

* per element in m³/h calculated at 1 bar(a), 20 °C, and compressed to 7 bar_e

Cross-References

OEM reference	Parfit order no.	Nos.*
filter size FCA25		
EFST25 V	PR1981013	1
EFST25 ZN	PR1981025	1
EFST25 XN	PR1981037	1
EFST25 A	PR1981049	1

OEM reference	Parfit order no.	Nos.*
filter size FCA30		
EFST30 V	PR1981014	1
EFST30 ZN	PR1981026	1
EFST30 XN	PR1981038	1
EFST30 A	PR1981050	1

OEM reference	Parfit order no.	Nos.*
filter size FCA50		
EFST50 V	PR1981015	1
EFST50 ZN	PR1981027	1
EFST50 XN	PR1981039	1
EFST50 A	PR1981051	1

OEM reference	Parfit order no.	Nos.*
filter size FCA70		
EFST70 V	PR1981016	1
EFST70 ZN	PR1981028	1
EFST70 XN	PR1981040	1
EFST70 A	PR1981052	1

OEM reference	Parfit order no.	Nos.*
filter size FCA90		
EFST90 V	PR1981017	1
EFST90 ZN	PR1981029	1
EFST90 XN	PR1981041	1
EFST90 A	PR1981053	1

OEM reference	Parfit order no.	Nos.*
filter size FCA110		
EFST110 V	PR1981018	1
EFST110 ZN	PR1981030	1
EFST110 XN	PR1981042	1
EFST110 A	PR1981060	1

OEM reference	Parfit order no.	Nos.*
filter size FCA120		
EFST120 V	PR1981019	1
EFST120 ZN	PR1981031	1
EFST120 XN	PR1981043	1
EFST120 A	PR1981055	1

OEM reference	Parfit order no.	Nos.*
filter size FCA130		
EFST130 V	PR1981020	1
EFST130 ZN	PR1981032	1
EFST130 XN	PR1981044	1
EFST130 A	PR1981056	1

OEM reference	Parfit order no.	Nos.*
filter size FCA140		
EFST140 V	PR1981021	1
EFST140 ZN	PR1981033	1
EFST140 XN	PR1981045	1
EFST140 A	PR1981057	1

OEM reference	Parfit order no.	Nos.*
filter size FCA170		
EFST170 V	PR1981022	1
EFST170 ZN	PR1981034	1
EFST170 XN	PR1981046	1
EFST170 A	PR1981058	1

OEM reference	Parfit order no.	Nos.*
filter size FCA180		
EFST180 V	PR1981023	1
EFST180 ZN	PR1981035	1
EFST180 XN	PR1981047	1
EFST180 A	PR1981059	1

OEM reference	Parfit order no.	Nos.*
filter size FCA190		
EFST190 V	PR1982024	1
EFST190 ZN	PR1982036	1
EFST190 XN	PR1982048	1
EFST190 A	PR1982060	1

* required element quantity per filter housing

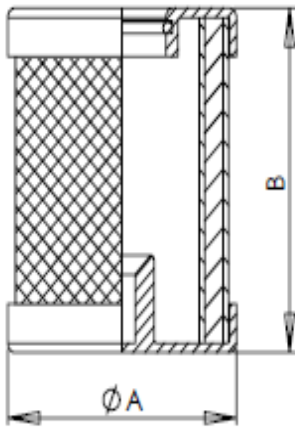
Filter vessels with multiple elements

filter size FWS200		
EFST170	see above	2
filter size FWS300		
EFST170	see above	3
filter size FWS400		
EFST170	see above	4

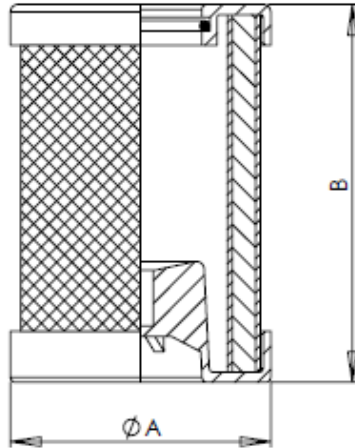
filter size FWS600		
EFST170	see above	6
filter size FWS800		
EFST170	see above	8
filter size FWS1000		
EFST170	see above	10

filter size FWS1200		
EFST170	see above	12
filter size FWS1600		
EFST170	see above	16
filter size FWS2000		
EFST170	see above	20

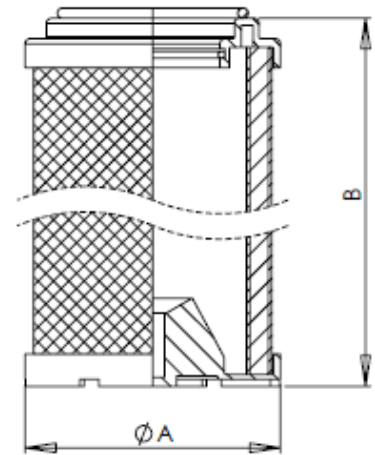
Dimension Overview



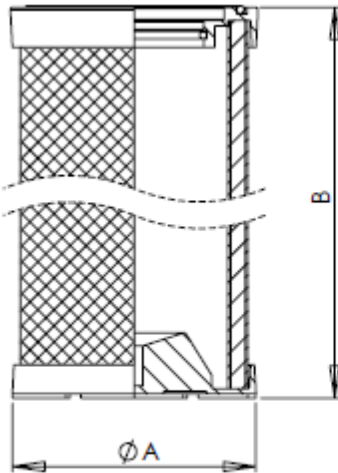
FST25



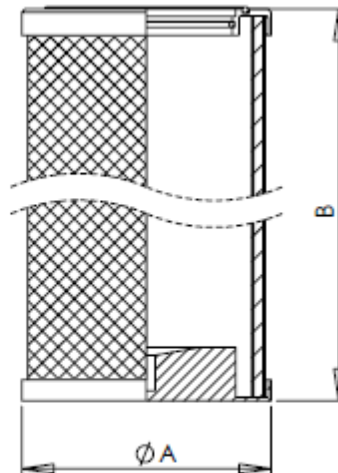
FST30 - FST70



FST90 - FST130



FST140 - FST170



FST180 - FST190

A=Äußerer Durchmesser untere Endkappe, B=Gesamthöhe, C=Innerer Durchmesser oberer Anschluß, H=Innengewinde

OEM Grade	OEM Size	Dimension [mm]				Weight [kg]
		ØA	B	ØC	H	
V, XN, ZN, A	EFST 25	42 mm	53 mm	17 mm	-	0.04
	EFST 30	51 mm	57 mm	24 mm	-	0.07
	EFST 50	51 mm	73 mm	24 mm	-	0.08
	EFST 70	51 mm	142 mm	24 mm	-	0.13
	EFST 90	75 mm	124 mm	44 mm	-	0.17
	EFST 110	75 mm	224 mm	44 mm	-	0.29
	EFST 120	75 mm	324 mm	44 mm	-	0.41
	EFST 130	75 mm	514 mm	44 mm	-	0.69
	EFST 140	92 mm	510 mm	55 mm	-	0.80
	EFST 170	92 mm	760 mm	55 mm	-	1.25
	EFST 180	140 mm	612 mm	96 mm	-	1.90
	EFST 190	140 mm	762 mm	96 mm	-	2.40

* Approximate data, tolerances not shown.