Compressed Air and Gas Filtration Products

Catalog 1300-300/USA

Finite®

We are dedicated to fulfilling your compressed air filtration requirements. We know that every application requires specific needs and we have the products ready to address them.

If you can't find a specific compressed air/gas filter, dryer, or accessory in this catalog, call 1-800-521-4357. Our knowledgeable technical assistance department will be happy to assist you!

Inquires via e-mail are also encouraged. E-mail inquiries to finitefilter@parker.com. We can provide solutions that will remove contaminants such as oil, water and particulate from your compressed air and gas lines, saving you time and money!

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application including consequences of any failure, and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

Offer of Sale

The items decribed in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the "offer of Sale."

Table of Contents

focus

WE FOCUS ON WHAT MATTERS MOST

you, our customer

Superior, consistent performance is as vital to your operation as it is to ours.

Certified to ISO 9001: 2000, our quality management systems provide products that exceed your expectations.

quality

We stand firmly behind our quality policy and provide defect-free products and services to our internal and external customers at all times. Because quality is integrated into our entire manufacturing process, you can count on **Finite**® to continually provide the highest quality filtration products.

Finite®

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

service

At Finite®, we know that getting the right product at the right time is a must.

We are committed to providing unmatched customer service and technical support to all of our customers.

Our dedicated staff of customer service specialists and application engineers are standing by to help you. We take great pride in our on-time delivery and measure our performance daily based on your required date. So when your compressed air or gas system challenges you, give the experts at Finite® a call!

innovation

Finite® 's innovative products and OEM solutions come from expert engineering input and technologically advanced manufacturing systems. Our commitment to meeting your needs involves our focus on product innovation. Our experienced product development staff uses global resources, state-of-the-art design techniques, and sophisticated lab testing to help you stay on top of your competition.

By listening to what you need most and responding to those needs, Finite® continually develops cutting-edge filtration solutions.

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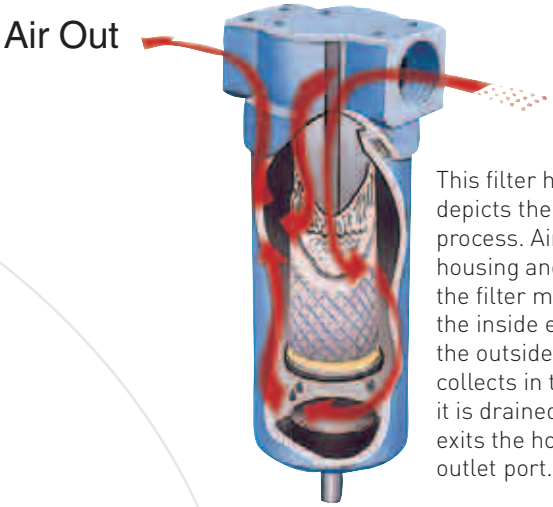
Oxford, MI

Q & A BASICS OF COALESCING

Q. What is co·alesc·ing fil·tra·tion?

A. co·alesc·ing fil·tra·tion
A steady state process whereby aerosols are caused to agglomerate (come together) into even larger droplets as they pass through the filter element's fiber matrix, eventually becoming large enough to be gravitationally drained away.



This filter housing cutaway depicts the coalescing process. Air enters the housing and flows through the filter media passing from the inside element surface to the outside. Coalesced liquid collects in the housing where it is drained and clean air exits the housing through the outlet port.

Q. Why filter compressed air?

A. Submicronic contaminants in compressed air systems plug orifices of sensitive pneumatic instrumentation; they wear out seals, erode system components, reduce the absorptive capacity of desiccant air/gas dehydrators, foul heat transfer surfaces, reduce air tool efficiency, and damage finished products. The results include: product rejects, lost production time and increased maintenance expense. For example, trace amounts of submicronic oil can cause serious fish eye blemishing in automotive finishing operations. Water left in air lines can freeze during exposure to cold, blocking flow or rupturing pipes. Compressor lubricant not captured in a coalescing filter will eventually collect in pneumatic components, causing premature component repair or replacement. Environmental concerns will be raised if oily, compressed air is continually discharged into the atmosphere through a pneumatic muffler.

HAVE MORE QUESTIONS?

Request a free copy of Finite's Basics of Coalescing - Bulletin 1300-700/USA

Finite's colorful, 28-page handbook is intended to familiarize the user with all aspects of coalescing filtration from the basics to advanced theory and concept

The Basics of Coalescing answers such questions as *What is coalescing filtration*? and *Why filter compressed air?* It also gives in-depth explanations about Finite's filter media grades and types. Other topics include filter selection, proper installation and maintenance tips.

The selection and proper use of filtration devices is an important tool in the battle to increase manufacturing efficiency and decrease production costs. This handbook will help the user make informed decisions about how coalescing filtration can help them in those endeavors.

Topics Include:

WHAT IS COALESCING FILTRATION?
WHY FILTER COMPRESSED AIR?
THE COMPRESSED AIR ENVIRONMENT
SUBMICRONIC CONTAMINATION
THREE CONTAMINATION THREATS
COALESCING MECHANISMS

COALESCING FILTER DESIGN
FILTER EFFICIENCY
FINITE MEDIA GRADES
FINITE MEDIA TYPES
FILTER SELECTION
FILTER HOUSINGS

FILTER INSTALLATION
MAINTENANCE
FILTER ELEMENT LIFE PROFILE
COALESCING FILTER LOADING CURVE
THE DIRECT COST OF PRESSURE DROP
APPLICATIONS

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Facts and Conversions:

Temperature:

32°Farenheit = 0° Celcius
°C = (°F-32)5/9

Pressure:

1 bar = 14.5 pounds per square inch (PSI)
1 PSI = 27.686 inches of water (H_2O)
1 PSI = 2.036 inches of Mercury (Hg)

Length:

1000 millimeters = 100 centimeters = 1 meter
1 meter = 39.27 inches = 3.281 feet
1 foot = 30.48 centimeters
1 inch = 2.54 centimeters
1 micron (µm) = 10^{-6} meters = one millionth of a meter
25.4 µm = .001 inch

Volumetric Flow Rate:

1 cubic meter per second (m^3/s) = 2118.9 feet cubed per minute (ft^3/min)
1 $ft^3/_{min}$ = 28.3 liters/$_{min}$
1 cubic meter per hour (m^3/hr) = 1.7 standard cubic feet per minute

Mass:

1 pound = 453.59 grams = 0.45359 kilograms
1 pound = 16 ounces
1 ounce = 28.349 grams

Density:

$$\text{Density} = \frac{\text{Mass (m)}}{\text{Volume (V)}}$$

finitefilter@parker.com

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

International H-Series

Compressed Air & Gas Filters

- **Coalescing, Particulate & Hydrocarbon Adsorption**
- **Flows from 10 to 1600 SCFM; 17 to 2822 m^3/hr**
- **1/4" to 3" NPT, BSPF & BSPT Ports**

Bulletin 1300 - 993C/USA

Finite®

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Compressed Air and Gas Filters

focus

quality

service

innovation

Finite® Filter focuses on what matters most—quality, service, innovation, and YOU - our customer. So when your compressed air or gas system challenges you, give the experts at Finite a call!
1-800-521-4357

Parker

Product rejects?
Lost production time?
Increased maintenance expense?

The real problem?

... dirty compressed air and gas

Why filter compressed air and gas?

Submicronic contaminants in compressed air systems plug orifices of sensitive pneumatic instrumentation, wear out seals, erode system components, reduce the absorptive capacity of desiccant air/gas dehydrators, foul heat transfer surfaces, reduce air tool efficiency, and damage finished products. The results include: product rejects, lost production time and increased maintenance expense. For example, trace amounts of submicronic oil can cause serious fish eye blemishing in automotive finishing operations. Water left in air lines can freeze during exposure to cold, blocking flow or rupturing pipes. Compressor lubricant not captured in a coalescing filter will eventually collect in pneumatic components, causing premature component repair or replacement. Environmental concerns will be raised if oily, compressed air is continually discharged into the atmosphere through a pneumatic muffler.

The real solution?

...Finite's International H-Series

Finite Filter's International H-Series is the right solution for most compressed air/gas applications. The International H-Series housings are available with oil removal (coalescing), particulate and oil vapor removal elements.

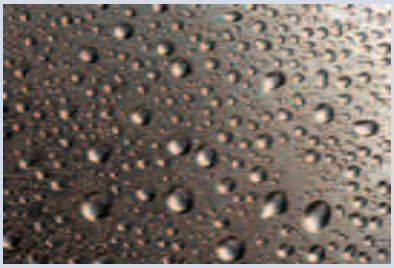
This world class, world quality product can greatly improve your compressed air and gas systems.

Finite's H-Series Offers...

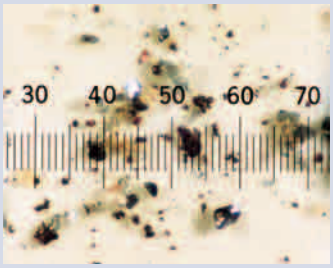
- Coalescing, particulate and adsorption filter elements
- Optional indicators, gauges and drains
- Temperatures to 450° F
- Connection sizes from 1/4" to 3" NPT, BSPF & BSPT
- Flows from 10 to 1600 SCFM (17-2822 m^3/hr)
- Pressures to 500 PSIG

oil

water



solids



Actual pictomicroraph of particulate contaminants
(Magnified 100x Scale: 1 division = 20 microns (µm))

three contamination threats

The contaminants of greatest concern in precision compressed air systems are water, oil and solids. Water vapor is present in all compressed air; it becomes greatly concentrated by the compression process. While air dryer systems can be used effectively to remove water from compressed air, they will not remove the second major liquid contaminant – oil. Most oil comes from compressor lubrication carry-over, but even the air produced by oil-free compressors has hydrocarbon contamination brought into the system through the intake.

The third contaminant found in compressed air is solid matter including rust and scale. Solid particulates, combined with aerosols of water and oil, can clog and shorten the life of air system components and can foul processes.

Typical Applications

(See Pages 12-13 for application drawings)

Coalescing (Oil Removal)

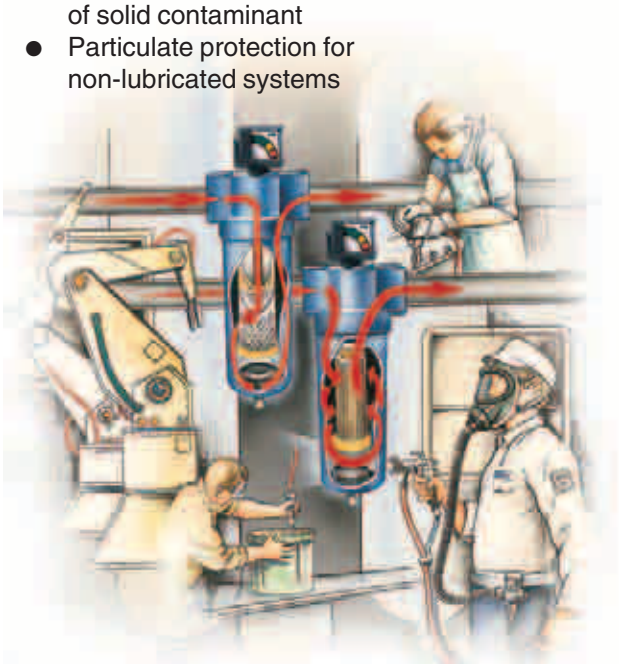
- Air dryer prefilter
- Paint spray booths
- Breathing air
- Tool protection
- Air valve protection
- Air cylinder protection
- Compressed air system protection

Adsorber (Vapor Removal)

- Odor removal
- Breathing air
- Food packaging machines
- High purity laboratory gases
- Hydrocarbon vapor removal

Interceptor (Particulate Removal)

- Desiccant dryer afterfilter
- Prefilter for coalescer
- Systems with high concentrations of solid contaminant
- Particulate protection for non-lubricated systems



Easy as... 4 Steps to clean, dry compressed air!

Step 1

Determine your application, media grade, media type and end seals.
Pages 14-15

Step 2

Choose your housing and replacement elements.
Pages 16-17

Step 3

Choose your accessories. Find out what's standard or choose what's best for your application.
Page 17

Step 4

How to Order. Build your own part number here!
Page 18

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Oxford, MI

Does one of these

applications

describe your system?

From aeration in pharmaceutical and chemical processes to pneumatic power systems, the possibilities for applications are endless. Finite® has some example applications that may fit your needs. Let one of Finite®'s application engineers find a system that is right for you.

quality.

International Standard ISO8573-1 is fast becoming the industry standard method for specifying compressed air cleanliness. The following diagrams describe various systems in terms of their corresponding ISO classification.

International ISO Standards

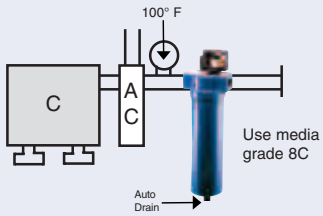
Notification as specified in ISO8573 - 1

Class	Solid		Water	Oil
	Maximum particle size* (µm)	Maximum Concentration** ppm(mg/m³)	Maximum Pressure Dewpoint °F (°C)	Maximum Concentration** ppm(mg/m³)
1	0.1	0.08 (0.1)	-94 (-70)	0.008 (.01)
2	1	0.8 (1)	-40 (-40)	0.08 (.1)
3	5	4.2 (5)	-4 (-20)	.83 (1)
4	15	6.7 (8)	37 (+3)	4.2 (5)
5	40	8.3 (10)	45 (+7)	21 (25)
6	-	- -	50 (+10)	- -

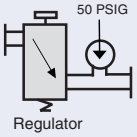
* Particle size is based on a filtration ratio $\beta 20$. The minimum accuracy of the measuring method used is 20% of the limiting value of the class.
** At 14.7 psi (1 bar) absolute pressure, +70°F (+20°C) and a relative humidity of 60%. It should be noted that at pressures above atmospheric, the contaminant concentration is higher.
Notes:
1. The quality of the air delivered by non-lubricated compressors is influenced by the quality of the intake air and the compressor design.
2. The minimum accuracy of the measuring method used is 20% of the limiting value of the class.

ISO Class 2 ☐ 3

Compressor Room (Source) Air Preparation Equipment:



Point-Of-Use Air Preparation Equipment:

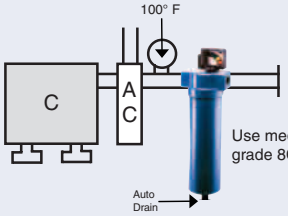


Any compressor with aftercooler. Air intended for use with lubricated air tools, air motors, cylinders, shot blasting, non-frictional valves.

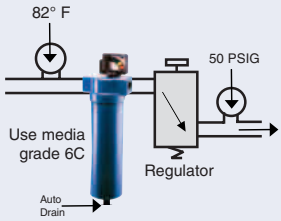
OTHER SPECS MET: Compressed Air & Gas Institute: CGA – G7.1 (Grades A & Ba1)

ISO Class 1 ☐ 1

Compressor Room (Source) Air Preparation Equipment:



Point-Of-Use Air Preparation Equipment:

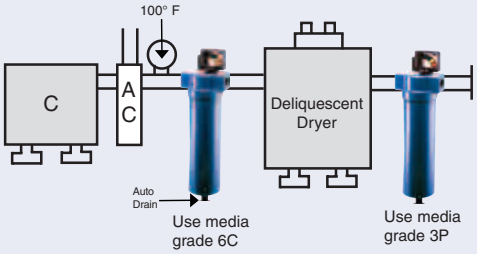


Any compressor with aftercooler and 2-stage coalescing. Air intended for use with lubricated control valves, cylinders and parts blow-down, etc.

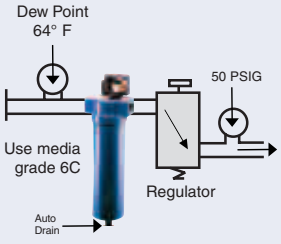
OTHER SPECS MET: Mil. Std. 282 H.E.P.A., U.S.P.H.S. 3A Accepted particles for milk

ISO Class 1 ☐ 1

Compressor Room (Source) Air Preparation Equipment:



Point-Of-Use Air Preparation Equipment:



Any compressor with aftercooler, 2-stage coalescing and deliquescent dryer. Air intended for use with general pneumatic systems, body shop spray painting and components sensitive to high moisture content.

OTHER SPECS MET: Compressed Air & Gas Institute: CGA – G7.1 (Grade C)

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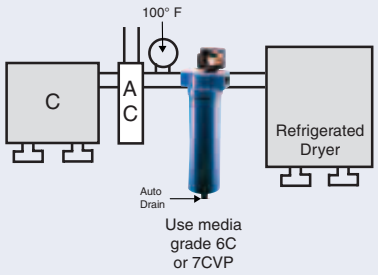
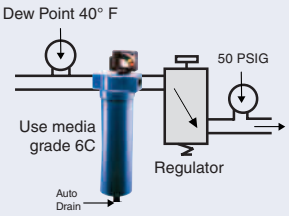
ISO Class 1 4 1

Compressor Room (Source)
Air Preparation Equipment:



Point-Of-Use
Air Preparation Equipment:

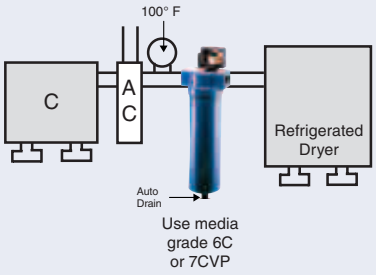


Any compressor with aftercooler, 2-stage coalescing and refrigerated dryer. Air intended for use with air-gauging, air conveyors, spray-painting, food processing, instrumentation, blow molding, cosmetics, film processing, bottling, pharmaceuticals, dairy, breweries, medical, robotics and close tolerance valves.

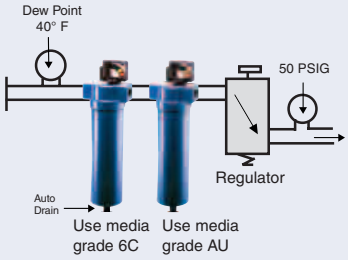
SPECS MET: CGA – G7.1 (Grades D & E) ISA#S7.3, Fed. Std. 209 (Class 100)

ISO Class 1 4 1

Compressor Room (Source)
Air Preparation Equipment:



Point-Of-Use
Air Preparation Equipment:

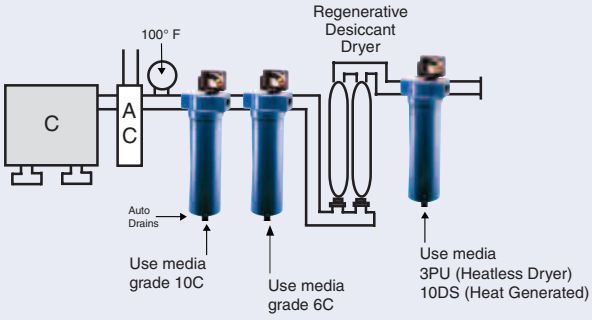


Any compressor with aftercooler, 2-stage coalescing, refrigerated dryer and carbon absorber. Air intended for use as industrial breathing air and decompression chambers. CAUTION: Always use high temperature synthetic lubricants and monitor (alarm for carbon monoxide concentrations exceeding 20ppm). This system will not eliminate toxic gases!

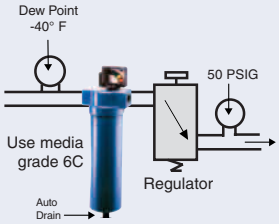
OTHER SPECS MET: O.S.H.A. 29CFR 1910.134

ISO Class 1 2 1

Compressor Room (Source)
Air Preparation Equipment:



Point-Of-Use
Air Preparation Equipment:



Any compressor with aftercooler, two-stage and double coalescing and a regenerative-type desiccant dryer. Air intended for use in applications involving rapid expansion of compressed air, critical instrumentation, high purity gases, computer chip drying, etc.
CAUTION: This air is too dry for respiratory use.

SPECS MET: CGA – G7.1 (Grade F)

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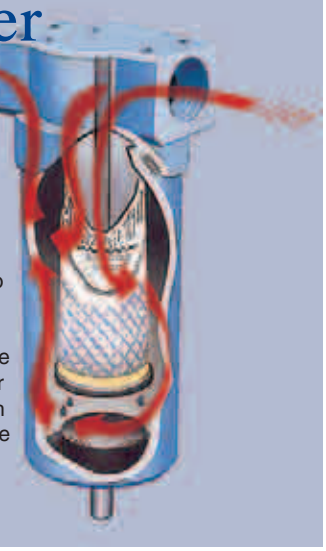
Step 1

Determine your application, media grade, media type and end seals.

Find your (or similar) application in the chart below, from the basic application circuits on the previous page, or consult a Finite® application engineer. Determine media grade, media type, and end seal required. If your application requires a coalescing element, use the information listed below. For other media types, please see the following page.

Coalescing (Liquid and Particulate Removal) Filter Media

How does a coalescer work?



This filter housing cutaway depicts the coalescing process. Air enters the housing and flows through the filter media passing from the inside element surface to the outside. Coalesced liquid, water and oil, collects in the bowl where it is drained and clean air exits the housing through the outlet port. Particulate contaminants are captured and held in the media.

Choose your media type

C: Micro-glass coalescer

Q: Micro-glass coalescer with built-in pleated prefilter

7CVP: Micro-glass pleated coalescer

D: High temperature micro-glass coalescer up to 450° F (232° C)

Coalescing elements are wrapped in color netting corresponding to media grades below, or will have the media grade printed on the element.

Media Grade / Media Type / End Seal

4 ☐☐

APPLICATIONS: Very high-efficiency coalescer; for elevated pressures up to **500 PSIG** (34 bar) or when removing aerosols from lighter weight gases. Protection of pneumatic systems and critical modulating systems such as flow and temperature controllers.

STANDARD

6 ☐☐

APPLICATIONS: General air coalescing applications when total removal of liquid aerosols and suspended fines is required in all pressure ranges. Protection of air dryers, air gauging, air logic, modulating systems, critical air conveying, most breathing air systems, etc.

7CVP

APPLICATIONS: High efficiency and very low pressure drop, even when wetted by oil and water, makes this pleated coalescing media an excellent choice for medium efficiency applications. Large surface area means long life and a high tolerance for heavy liquid aerosol contamination. Prefilter for refrigerated air dryer.

8 ☐☐

APPLICATIONS: Good air coalescing efficiency in combination with high flow rate and long element life. Protection of noncritical circuit components such as valves, cylinders, etc. Prefilter for refrigerated air dryer.

10 ☐☐

APPLICATIONS: Precoalescer or prefilter for Grade 6 to remove gross amounts of water and oil, or tenacious aerosols which are difficult to remove. Upgrading existing particulate equipment to coalescing without increase in pressure drop.

Media Specifications

Grade Designation	Coalescing Efficiency .3 to .6 Micron Particles	Maximum Oil Carryover[1] PPM w/w	Micron Rating	Pressure Drop (PSID) @ Rated Flow[2]	
				Media Dry	Media Wet With 10-20 wt. oil
4	99.995%	.003	.01	1.25	3-4
6	99.97%	.008	.01	1.0	2-3
7	99.5%	.09	.5	.25	.5 - .7
8	98.5%	.2	.5	.5	1-1.5
10	95%	.85	1.0	.5	.5

[1]Tested per ADF-400 at 40 ppm inlet.
[2]Add dry + wet for total pressure drop.

Coalescer End Seals:

Blank: No end seals - Elements are self-sealing. Standard on filters with 1/4" to 1" connection sizes.

U: Molded urethane, Standard on all filters with 1 1/4" to 3" connection sizes.

S: Molded silicone rubber end seals used for high-temperature elements up to **450°F** (232°C).

V: Fluorocarbon gasket bonded to metal end cap. Optional seal used for high temperature **450°F** (232°C) elements. Available on 1 1/4" NPT and larger. Standard on all 7CVP media.

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Oxford, MI

Water Separator Filter Media

100WS

APPLICATIONS: Reduction and elimination of excess liquids in gas streams. Excellent prefiltration for coalescing grades 6 and 10 when extreme quantities of liquid contaminants are present.

Grade Designation	Filter Efficiency Rating	Pressure Drop (PSID) @ Rated Flow Media Dry
100WS	100µm	<.25

Water Separator End Seals:

Blank: Fluorocarbon gasket bonded to metal end cap. Standard on filters with 1 1/4" to 3" connection sizes.

U: Molded urethane. Standard on all filters with 1/4" to 1" connection sizes.

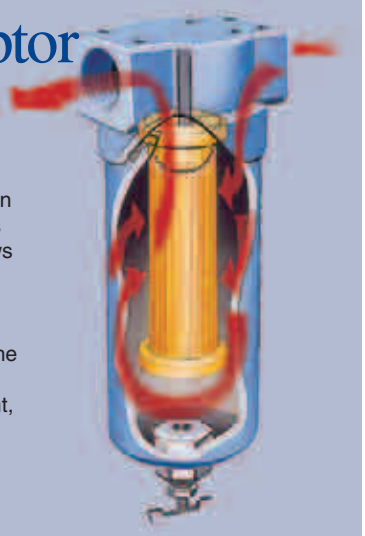
media type

100WS: Rolled Stainless Steel Mesh

Interceptor (Particulate Removal) Filter Media

How does an **interceptor** work?

This filter housing cutaway depicts an interceptor element in a housing. Air enters the housing and flows through the filter media passing from the outside of the element surface to the inside. Particles collect in the element, while clean air exits the housing through the outlet port.



3P U

APPLICATIONS: Particulate removal where very high dirt-holding capacity is required. Safety afterfilter for desiccant dryer, pore matched prefilter for coalescer or as general use for final instrument air protection.

Media Specifications

Grade Designation	Filter Efficiency Rating	Pressure Drop (PSID) @ Rated Flow Media Dry
3P	3µm	.25

media type

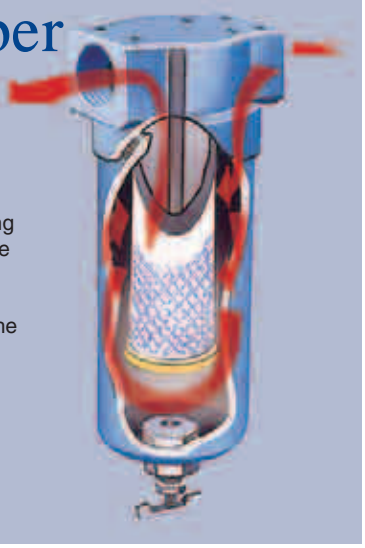
3P: Pleated Cellulose

Interceptor End Seals: U = Molded urethane. Standard on all 3P pleated cellulose filter elements.

Adsorption (Vapor Removal) Filter Media

How does an **adsorber** work?

This filter housing cutaway depicts the adsorption process. Air enters the housing and flows through the filter media passing from the ouside element surface to the inside. Hydrocarbon vapors collect in the filter element, while clean air exits the housing through the outlet port.



A U

APPLICATIONS: Polishing gas stream of final trace amounts of hydrocarbon contaminants, usually .5 to 2 ppm inlet concentrations. Preparation for breathing air; hydrocarbon vapor removal.

Media Specifications

Grade Designation	Oil Vapor Removal Efficiency	Pressure Drop (PSID) @ Rated Flow Media Dry
A	99%+	1

media type

A: Activated Carbon

Adsorber End Seals: U = Molded urethane. Standard on all activated carbon filter elements.

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Step 2

Determine your Housing.

Find desired flow rate under appropriate media grade column. For pressures other than 100 PSIG or temperatures other than 70°F, please see Alternate Housing Selection Chart, Step 2a, on following page.

☐ = Insert Port Type. See page 18 for options. For example: Insert "N" for an NPT Port thread style.

Housing Selection Chart

Rated Flows: SCFM @ 100 PSIG (m^3/hr @ 7 bar)

For other pressures, please see Step 2a on following page

Housing Assembly	Port Size	4 Coalescer	STANDARD 6 Coalescer	7CVP Coalescer	8 Coalescer	10 Coalescer	3PU Interceptor	100WS Water Separator	A Adsorber
H☐ 1S	1/4"	**11** (19)	**15** (26)	N/A	**20** (34)	**25** (43)	**25** (43)	**50** (85)	**15** (26)
H☐15S	3/8"	**15** (26)	**20** (34)	N/A	**27** (46)	**33** (56)	**33** (56)	**66** (112)	**20** (34)
H☐ 2S	1/2"	**19** (32)	**25** (43)	N/A	**34** (58)	**42** (71)	**42** (71)	**83** (141)	**25** (43)
H☐ 1L	1/4"	**23** (39)	**30** (51)	N/A	**41** (68)	**50** (85)	**50** (85)	**50** (85)	**30** (51)
H☐15L	3/8"	**30** (51)	**40** (68)	N/A	**55** (94)	**66** (112)	**66** (112)	**66** (112)	**40** (68)
H☐ 2L	1/2"	**38** (65)	**50** (85)	N/A	**68** (116)	**83** (141)	**83** (141)	**83** (141)	**50** (85)
H☐ 3S	3/4"	**61** (104)	**80** (136)	N/A	**109** (185)	**133** (226)	**133** (226)	**133** (226)	**80** (136)
H☐ 4S	1"	**76** (129)	**100** (170)	N/A	**136** (231)	**166** (282)	**166** (282)	**232** (394)	**100** (170)
H☐ 4L	1"	**106** (180)	**140** (238)	N/A	**191** (325)	**232** (394)	**232** (394)	**232** (394)	**140** (238)
H☐ 5S	1 1/4"	**190** (323)	**250** (425)	**415** (706)	**330** (461)	**415** (706)	**415** (706)	**415** (706)	**250** (425)
H☐ 6S	1 1/2"	**260** (442)	**350** (595)	**600** (1020)	**465** (791)	**600** (1020)	**600** (1020)	**600** (1020)	**350** (595)
H☐ 8E	2"	**260** (442)	**350** (595)	**600** (1020)	**465** (791)	**600** (1020)	**600** (1020)	**600** (1020)	**350** (595)
H☐ 8S	2"	**340** (578)	**450** (765)	**750** (1275)	**600** (1020)	**750** (1275)	**750** (1275)	**750** (1275)	**450** (765)
H☐ 8L	2"	**470** (799)	**625** (1063)	**1035** (1760)	**830** (1411)	**1035** (1760)	**1035** (1760)	**1035** (1760)	**625** (1063)
H☐ 0L	2 1/2"	**600** (1020)	**800** (1360)	**1330** (2261)	**1060** (1802)	**1330** (2261)	**1330** (2261)	**1330** (2261)	**800** (1360)
H☐12L	3"	**750** (1275)	**1000** (1700)	**1660** (2822)	**1330** (2261)	**1660** (2822)	**1660** (2822)	**1660** (2822)	**1000** (1700)

Replacement Element Part Numbers

Media Type
(* Insert selected grade 4, 6, 8, 10)

Housing Assembly	Coalescer	Coalescer w/ inner retainer	High Temperature	Coalescer w/ built-in prefilter	7CVP Pleated Coalescer	3PU Interceptor	100WS Water Separator	AU Adsorber
H☐1S	*C10-025	*IU10-025	*DS10-025	*QU10-025	N/A	3PU10-025	100WSU10-025	AU10-025
H☐15S	*C10-025	*IU10-025	*DS10-025	*QU10-025	N/A	3PU10-025	100WSU10-025	AU10-025
H☐2S	*C10-025	*IU10-025	*DS10-025	*QU10-025	N/A	3PU10-025	100WSU10-025	AU10-025
H☐1L	*C10-050	*IU10-050	*DS10-050	*QU10-050	N/A	3PU10-050	100WSU10-025	AU10-050
H☐15L	*C10-050	*IU10-050	*DS10-050	*QU10-050	N/A	3PU10-050	100WSU10-025	AU10-050
H☐2L	*C10-050	*IU10-050	*DS10-050	*QU10-050	N/A	3PU10-050	100WSU10-025	AU10-050
H☐3S	*C15-060	*IU15-060	*DS15-060	*QU15-060	N/A	3PU15-060	100WSU15-060	AU15-060
H☐4S	*C15-060	*IU15-060	*DS15-060	*QU15-060	N/A	3PU15-060	100WSU15-060	AU15-060
H☐4L	*C15-095	*IU15-095	*DS15-095	*QU15-095	N/A	3PU15-095	100WSU15-060	AU15-095
H☐5S	*CU25-130	*CU25-130	*DV25-130	*QU25-130	7CVP25-130	3PU25-130	100WS25-130	AU25-130
H☐6S	*CU25-130	*CU25-130	*DV25-130	*QU25-130	7CVP25-130	3PU25-130	100WS25-130	AU25-130
H☐8E	*CU25-130	*CU25-130	*DV25-130	*QU25-130	7CVP25-130	3PU25-130	100WS25-130	AU25-130
H☐8S	*CU25-187	*CU25-187	*DV25-187	*QU25-187	7CVP25-187	3PU25-187	100WS25-187	AU25-187
H☐8L	*CU25-235	*CU25-235	*DV25-235	*QU25-235	7CVP25-235	3PU25-235	100WS25-235	AU25-235
H☐0L	*CU35-280	*CU35-280	*DV35-280	*QU35-280	7CVP35-280	3PU35-280	100WS35-280	AU35-280
H☐12L	*CU35-280	*CU35-280	*DV35-280	*QU35-280	7CVP35-280	3PU35-280	100WS35-280	AU35-280

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Step **2a**

Alternate Housing Selection Chart

for applications with pressures other than 100 PSIG and 70°F (standard conditions)

Converting Actual Application Conditions to Standardized Conditions

Because the required size of a filter is affected not only by flow, but also by operating pressure and operating temperature, it is necessary to convert those actual conditions to standardized conditions (100 PSIG and 70°F). The calculated adjusted flow rate can then be used to choose the appropriate filter in the chart on page 16. When using the chart, choose the closest flow rate from the appropriate media grade column.

Equation:

Flow		Pressure		Temperature		Specific Gravity		Adjusted Flow Rate
Actual System Flow Rate (SCFM)	X	$\frac{(100\ \text{PSIG} + 14.7\ \text{PSIG})}{(\text{System Pressure (PSIG)} + 14.7\ \text{PSIG})}$	X	$\frac{(\text{System Temp °F} + 460°\text{F})}{(70°\text{F} + 460°\text{F})}$	X	$\sqrt{\text{specific gravity}}$	=	Adjusted Flow Rate (At 100 PSIG and 70°F)

Example: For grade 6C filter, with an actual flow rate of 60 SCFM, an actual pressure of 50 PSIG and an actual temperature of 175°F, the equation would go as follows:

system pressure = 50

$\frac{(100\text{PSIG} + 14.7\ \text{PSIG})}{(50\ \text{PSIG} + 14.7\ \text{PSIG})}$

$\frac{(114.7)}{(64.7)} = 1.77$

system temperature = 175

$\frac{(175\ °\text{F} + 460°\text{F})}{(70°\text{F} + 460°\text{F})}$

$\frac{(635)}{(530)} = 1.19$

Note: Take the square root of your specific gravity. If this is for a compressed air application, skip this step because the specific gravity of air equals one. Please consult Finite® if you do not know your specific gravity.

Now go to the chart on page 16, look down the media grade 6 column for a flow of 126.4 SCFM, you will see the correct housing is the HN4L.

60 SCFM X **1.77** X **1.19** X **1** = **126.4 SCFM**

Pre-Installed Accessory Options

Step **3**

Choose your accessories.

Consult Finite® when choosing pre-installed accessories for special gases.

Accessory Designator	Auto Drain	DPI Indicator	DPG Gauge	High Temp	DP Ports	Fluorocarbon O-Rings	No Accessories	Pressure/Temp PSIG	Pressure/Temp Degrees°F	Pressure/Temp bar	Pressure/Temp Degrees°C
A	■							250	175°	17	79°
D		■						250	175°	17	79°
G			■					500	175°	34	79°
J				■				250	450°	17	232°
N							■	500	175°	34	79°
P					■			250	175°	17	79°
V						■		500	175°	34	79°
W	■	■						250	175°	17	79°
X	■				■			250	175°	17	79°
Y	■		■					250	175°	17	79°

Pre-installed Accessories



	DPI Indicator	AD-12 Automatic Drain Valve (Internal)	DPG-15 Differential Pressure Gauge
Designator	D, W	A, W, X, Y	G, Y
Temp. °F/°C	175°/79°	175°/79°	175°/79°
Pressure	250 PSIG/17 Bar	250 PSIG/17 Bar	500 PSIG/34 Bar
Port Size (NPT)	N/A	N/A	N/A

Other Compatible Accessories




	TV-50 Timed Drain Valve	ZLD-10 Zero Loss Drain	VS-50 Visual Sump Drain (not shown: Standard Bowl Guard)	MS-50 Metal Sump Drain (External)
Temp. °F/°C	210°/99°	175°/79°	125°/52°	175°/79°
Pressure	300 PSIG/20 Bar	250 PSIG/17 Bar	150 PSIG/10 Bar	250 PSIG/17 Bar
Port Size (NPT)	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT

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Step 4

How to Order

Use the steps below to build your own part number.

For any permutation not mentioned below, please consult factory at 1-800-521-4357.

Step 2 or 2a

H — Series Name

N — Port Type

N - NPT
F - BSPF
S - SAE*
T - BSPT

*SAE-32 2" connection only

12 — Port (Connection) Size

1 - 1/4"
15 - 3/8"
2 - 1/2"
3 - 3/4"
4 - 1"
5 - 1 1/4"
6 - 1 1/2"
8 - 2"
0 - 2 1/2"
12 - 3"

L — Bowl

S - Standard
L - Long
E - Economy (short bowl)*

*Short bowl is only available on 2" connection size

Note: Bowl length is determined by the flow rate required. See page 16, Housing Selection Chart, for flow rates.

Step 1

6 — Element Grade

4
6
8
10

C — Element Type

U — End Seal

Element Type	End Seal		
C	Blank	=	No end seal, Standard on 1/4" to 1" connection sizes
	U	=	Urethane, Standard on 1 1/4" to 3" connection sizes
	S	=	Molded Silicone Rubber
	V	=	Fluorocarbon, Available 1 1/4" to 3" connections only
Q	U	=	Urethane, Standard all connection sizes
	S	=	Molded Silicone Rubber
	V	=	Fluorocarbon, Available 1 1/4" to 3" connections only
D	S	=	Molded Silicone Rubber, Standard on all connection sizes
	V	=	Fluorocarbon, Available 1 1/4" to 3" connection sizes only
7CVP	Blank	=	Fluorocarbon, Standard on all 7CVP elements; elements available 1 1/4" to 3" connections only
I	U	=	Urethane, Standard on 1/4" to 1" connection sizes
3P	U	=	Urethane, Standard on all connection sizes
	S	=	Molded Silicone Rubber
	V	=	Fluorocarbon, Available 1 1/4" to 3" connections only
100WS	U	=	Urethane, Standard on 1/4" to 1" connection sizes
	Blank	=	Fluorocarbon, Standard on 100WS elements 1 1/4" to 3" connections only
A	U	=	Urethane, Standard on all connection sizes
	S	=	Molded Silicone Rubber

Step 3

G — Accessory Designator

for preinstalled accessories

A - Auto Drain
D - DPI Indicator
G - DPG Gauge (Standard on 3/4" & up)
J - High Temperature (450°F)
N - No Accessories
P - 1/8" Differential (3/4" & up) Sensing Ports
V - Fluorocarbon Seals
W - A + D
X - A + P
Y - A + G

Note: For max. pressures and temperatures related to **Accessories**, please see chart on previous page.

Examples on How to Order

Example 1:

H N 12 L - 6 C U Y

What am I ordering?

An H-Series, with a 3" NPT connection, long bowl, standard grade 6 coalescing element with urethane end seals, an auto drain and a standard DPG gauge.

Example 2:

H N 15 L - 8 C A

What am I ordering?

An H-Series, with a 3/8" NPT connection, long bowl, grade 8 coalescing element without end seals, and an auto drain.

Example 3:

H N 8 S - 7 C V P G

What am I ordering?

An H-Series, with a 2" NPT connection, standard bowl, a 7CVP coalescing element with standard fluorocarbon end seals and standard DPG gauge.

Example 4:

H N 8 E - 10 D V J

What am I ordering?

An H-Series, with a 2" NPT connection, economy short bowl, grade 10 high-temp coalescing element, with the standard fluorocarbon end seals and "J" as an accessory. This high temperature option converts all materials to be capable of handling temperatures of 450°F.

Example 5:

H N 2 S - A U N

What am I ordering?

An H-Series, with a 1/2" NPT connection, short bowl, adsorber element, with standard urethane end seals and no accessories.

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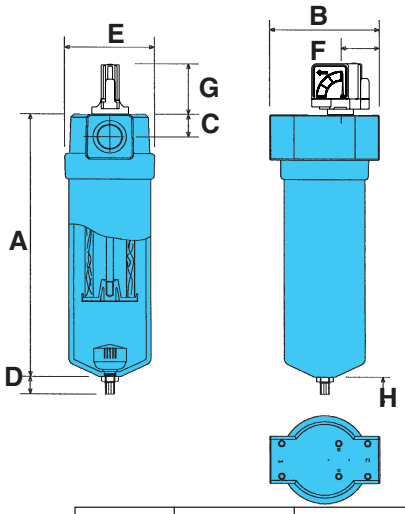
Drawings, Dimensions & Specifications

1/4" to 1" Housings



Specifications

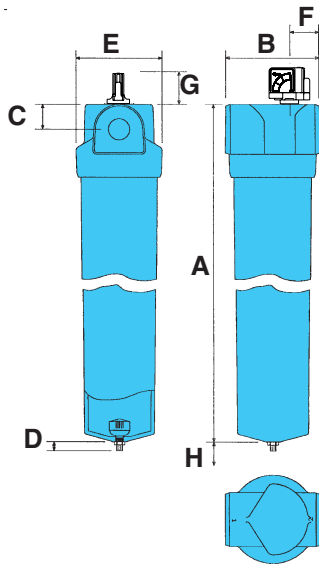
Max. Pressure: **500 PSIG** (34 bar)
Safety Factor: Burst to max operating: 4:1
Max Temp.: **175°F** (79°C) with option to **450°F** (232°C)
Seals: Nitrile Std./Fluorocarbon optional
Materials: Aluminum - 380 Die cast heads;
6061 Drawn bowls
Coatings: Chromated heads and bowls;
Powder painted exterior
Design: In-line threaded bowl to head

Note: Manual Drain Port is 1/8" FNPT when tee valve is removed from drain bushing.

Model	A	B	C	D	E	F	G	H*	Sump (ml)	Weight
H□1S	6.63 (168)	3.12 (79)	.63 (16)	.79 (20)	2.98 (76)	1.56 (39.5)	2.6 (66)	2.99 (76)	150	1.49 (.68)
H□15S	6.63 (168)	3.12 (79)	.63 (16)	.79 (20)	2.98 (76)	1.56 (39.5)	2.6 (66)	2.99 (76)	150	1.47 (.66)
H□2S	6.63 (168)	3.12 (79)	.63 (16)	.79 (20)	2.98 (76)	1.56 (39.5)	2.6 (66)	2.99 (76)	150	1.44 (.65)
H□1L	9.02 (229)	3.12 (79)	.63 (16)	.79 (20)	2.98 (76)	1.56 (39.5)	2.6 (66)	5.51 (140)	140	1.89 (.86)
H□15L	9.02 (229)	3.12 (79)	.63 (16)	.79 (20)	2.98 (76)	1.56 (39.5)	2.6 (66)	5.51 (140)	140	1.87 (.85)
H□2L	9.02 (229)	3.12 (79)	.63 (16)	.79 (20)	2.98 (76)	1.56 (39.5)	2.6 (66)	5.51 (140)	140	1.85 (.84)
H□3S	10.86 (276)	4.65 (118)	.96 (24)	.79 (20)	3.68 (93.5)	1.73 (44)	2.6 (66)	6.5 (165)	270	3.56 (1.61)
H□4S	10.86 (276)	4.65 (118)	.96 (24)	.79 (20)	3.68 (93.5)	1.73 (44)	2.6 (66)	6.5 (165)	270	3.29 (1.49)
H□4L	14.36 (365)	4.65 (118)	.96 (24)	.79 (20)	3.68 (93.5)	1.73 (44)	2.6 (66)	10.00 (254)	270	4.11 (1.86)

Special Note: Dimensions are in **inches** (millimeters); weight is in **pounds** (kilograms).
* Clearance required to remove bowl.

1 1/4" to 3" Housings



Specifications

Max. Pressure: **500 PSIG** (34 bar)
Safety Factor: Burst to max operating: 4:1
Max Temp.: **175°F** (79°C) with option to **450°F** (232°C)
Seals: Nitrile Std./Fluorocarbon optional
Materials: Aluminum - 356 Sand cast heads;
6061 Drawn bowls
Coatings: Chromated heads and bowls;
Powder painted exterior
Design: In-line threaded bowl to head

Note: Manual Drain Port is 1/8" FNPT when tee valve is removed from drain bushing.

Model	A	B	C	D	E	F	G	H*	Sump (ml)	Weight
H□5S	18.60 (472)	6.0 (152)	1.65 (42)	.83 (21)	5.67 (144)	1.85 (47)	2.6 (66)	13.50 (343)	440	12.11 (5.49)
H□6S	18.60 (472)	6.0 (152)	1.65 (42)	.83 (21)	5.67 (144)	1.85 (47)	2.6 (66)	13.50 (343)	440	11.97 (5.43)
H□8E	18.60 (472)	6.0 (152)	1.65 (42)	.83 (21)	5.67 (144)	1.85 (47)	2.6 (66)	13.50 (343)	440	11.97 (5.43)
H□8S	24.23 (615)	6.0 (152)	1.65 (42)	.83 (21)	5.67 (144)	1.85 (47)	2.6 (66)	19.25 (489)	530	14.00 (6.35)
H□8L	29.23 (742)	6.0 (152)	1.65 (42)	.83 (21)	5.67 (144)	1.85 (47)	2.6 (66)	24.02 (610)	620	15.99 (7.25)
H□0L	36.02 (915)	8.0 (203)	2.40 (61)	.83 (21)	7.24 (184)	2.36 (60)	2.6 (66)	28.50 (724)	880	35.00 (15.87)
H□12L	36.02 (915)	8.0 (203)	2.40 (61)	.83 (21)	7.24 (184)	2.36 (60)	2.6 (66)	28.50 (724)	880	34.14 (15.48)

Special Note: Dimensions are in **inches** (millimeters); weight is in **pounds** (kilograms).
* Clearance required to remove bowl.

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Notes:

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INSTALLATION

Finite H-Series filters should be installed in a level pipeline, mounted vertically, the bowl downward with one bowl length clearance for element removal. The filter should be installed at the highest pressure point available, and as near as possible to the equipment to be protected and have a drip leg immediately upstream. The coalescers and particulate filters should be visible and easily accessible for periodic draining and maintenance.

The filters should be piped in accordance with the instruction tags, flow arrows or "IN" and "OUT." Should these tags become unreadable, install the coalescer so that flow passes through the filter tube from inside-to-outside. Plumb particulate and adsorber filters so that flow passes through the filter from outside-to-inside. The various filter locations relative to other equipment should be as follows (unless specific instructions are given to the contrary): (1) COALESCERS and WATER SEPARATORS are placed before the dryer. (2) The INTERCEPTOR (Particulate) goes ahead of the COALESCER when pre-filtration is required. (3) The INTERCEPTOR is installed downstream of desiccant dryers to prevent desiccant migration. (4) The ADSORBER is always preceded by a COALESCER.

When Coalescer or Interceptor differential pressure reaches clogged condition (6-10 PSID) replace element immediately. DO NOT ATTEMPT TO CLEAN FILTER TUBE. System contamination can result. DO NOT ATTEMPT TO RESEAT A FILTER TUBE. New serrated indentations can be formed causing leakage. DO NOT BY-PASS THE COALESCER unless the by-pass line is also filtered.

OPERATION

Air coalescing is a continuous, balanced, steady-state process occuring at or below rated flow, which depends on two factors for high performance: (1) The bowl must be kept free of waste liquid build-up and (2) The element must be replaced when the differential pressure reaches 6-10 psid, 12 psid maximum. Differential pressure can be sensed at the inlet and outlet ports by two gages, or by Finite's DPI-13 differential pressure indicator, DPG-15 differential pressure gauge, or by observing system characteristics.

Bowl draining is accomplished by opening the manual drain valve (standard on all housings), at least once every 8 hours depending on the liquid load. The Finite Auto-Drain AD-12 is a useful tool that replaces manual draining. Finite's timed drain valve can be used to drain the bowl automatically.

A Finite coalescer, under normal system conditions, will operate for 6 to 12 months before reaching its maximum differential pressure. A "PU" series Interceptor, or a "QU" series coalescing element with a pleated prefilter can be employed ahead of the coalescer to increase its life. The interceptor should be replaced when its differential pressure reaches 8 - 10 psid.

Finite coalescers are designed for nominal operation with 10-20 wt. oil. Any viscosity increase over that of 20 wt. oil must be offset by a proportionate oversizing of the filter element. Consult your Finite representative.

TROUBLESHOOTING CHART

PROBLEM	PROBABLE CAUSE	SOLUTION
Too High Initial Pressure Drop	Air flow excessive for housing size.	Install larger filter.
	Filter media grade too fine.	Install coarser element.
	Too much oil/water from compressor.	Pre-coalesce with grade 10 - oversize housing.
Premature Clogging (Air Flow Drops Off)	Lubricant improperly selected for compressor, causing varnish or carbonizing of lubricant.	Change oil, consult with lubricant supplier.
	Excessive inlet particulate contamination.	Prefilter with Interceptor.
	Excessive lubricants present on element caused by either high lubricant viscosity or very high inlet aerosol level.	Prefilter with Grade 10 and oversize coalescer to compensate.
	Oil/water emulsion forming on element.	Remove water by drip leg, aftercooler. Install mechanical separator upstream.
	Ice forming or oil viscosity too high due to excessively low unit temperature.	Raise temperature.
Oil Present Down-stream of Filter	Bowl not properly drained of waste liquids.	Drain regularly, use auto drain.
	Element not sealing.	Replace element.
	Filter piped backwards.	See "INSTALLATION"; Re-pipe.
	Filter being by-passed by valving.	Close valve.
	Contaminated air entering system from second source downstream.	Change pipe or relocate filter.
	Oil vapors condensing downstream.	Install an adsorber.
	Excessive inlet oil level.	Precoalesce with Grade 10 and possibly oversize.
	Element damaged, chemically attacked or not installed in housing.	Change and consult distributor or factory for other than neutral pH.
	Oil present in pre-contaminated downstream piping.	Clean piping.
	Excessive flow surges.	Relocate filter, pre-coalesce with grade 10 and oversize coalescers.

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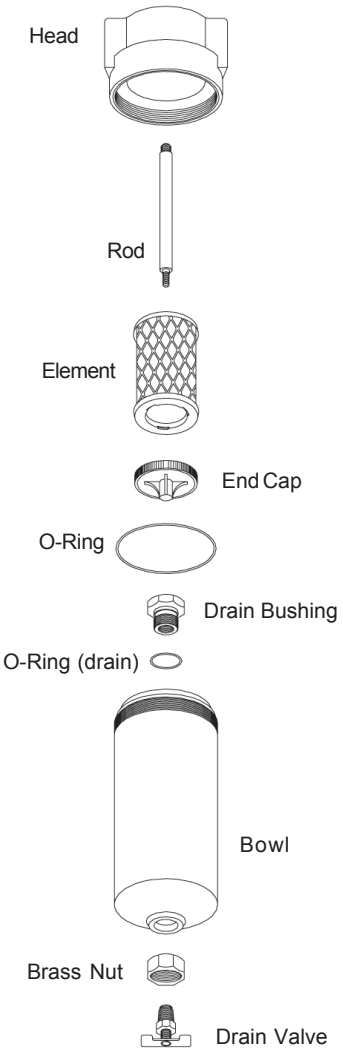
Assembly Drawing/Parts List

1/4" to 1" NPT/BSPF/BSPT



Part Name Port Size	H_1S 1/4"	H_15S 3/8"	H_2S 1/2"	H_1L 1/4"	H_15L 3/8"	H_2L 1/2"	H_3S 3/4"	H_4S 1"	H_4L 1"
Head - NPT	41508	41509	41510	41508	41509	41510	41511	41512	
Head (DPI) - NPT*	41513	41514	41515	41513	41514	41515	41516	41517	
Head (P Ports) NPT							41518	41519	
Head - BSPF	41429	41430	41431	41429	41430	41431	41432	41433	
Head (DPI) - BSPF*	41439	41440	41441	41439	41440	41441	41442	41443	
Head (P Ports) BSPF							41450	41451	
Head - BSPT							41540	41541	
Head (DPI) - BSPT*							41544	41545	
Head (P Ports) BSPT							41548	41549	
Elements:									
☐C	☐C10-025			☐C10-050			☐C15-060		☐C15-095
☐CU	☐CU10-025			☐CU10-050			☐CU15-060		☐CU15-095
☐IU	☐IU10-025			☐IU10-050			☐IU15-060		☐IU15-095
☐DS	☐DS10-025			☐DS10-050			☐DS15-060		☐DS15-095
☐QU	☐QU10-025			☐QU10-050			☐QU15-060		☐QU15-095
3PU	3PU10-025			3PU10-050			3PU15-060		3PU15-095
100WSU	100WSU10-025			100WSU10-025			100WSU15-060		
AU	AU10-025			AU10-050			AU15-060		AU15-095
Rod	40076			40077			45068		45069
End Cap	45076						45077		
End Cap (high temp)	41359						41038		
O-Ring	76143						76235		
O-Ring (high temp)	76143V						76235V		
Brass Drain Bushing	23054								
O-Ring (drain)	76114V								
Bowl Only	41520			41521			41522		41523
Bowl Assy. w/Manual Drain	41529			41530			41531		41532
Brass Nut	23041								
Drain Valve	70010								
Manual Drain Kit (includes Drain Valve, Brass Nut, Brass Drain Bushing and O-Ring)	EBD-12								

☐=insert grade 2, 4, 6, 8 or 10

* DPI-13 or DPG-15 Differential pressure indicator required.

Optional Accessories

Differential Pressure Indicator Options

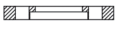
(When installed - Max. Operating pressure = 250 PSIG @ 175°F)
DPI-13 includes all parts listed out below plus a base plate (41117) for remote mounting.

Also available:
Kit 2003
(contains all DPI-13 parts listed below)

Also available DPI-13 Spare Parts:

Cap Screws - (2) 70005

Bracket - 40894



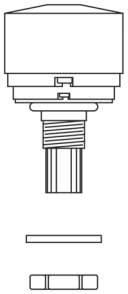
Shell - 40605

Spring - 40006

Piston - 40604

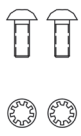
Diaphram - 41569

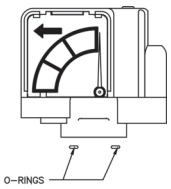
Automatic Drain Valve
AD-12



(When installed - Max. Operating Pressure = 250 PSIG @ 175°F)

Differential Pressure Gauge
DPG-15
(When installed - Max. Operating Pressure = 500 PSIG @ 175°F)





Note: DPG-15 comes with two o-rings and two screws (shown above) for mounting.

Mounting Brackets
BK-1
(1/4" - 1/2")
BK-3
(3/4" - 1")

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INSTALLATION

Finite H-Series filters should be installed in a level pipeline, mounted vertically, the bowl downward with one bowl length clearance for element removal. The filter should be installed at the highest pressure point available, and as near as possible to the equipment to be protected and have a drip leg immediately upstream. The coalescers and particulate filters should be visible and easily accessible for periodic draining and maintenance. Filters should be piped according to these instructions also following the flow direction label on the filters.

Filters up to and including 2" connection sizes flow as follows:

Coalescers/WS: from port 1 to port 2
Interceptors: from port 2 to port 1
Adsorbers: from port 2 to port 1.

Filters with connection sizes 2 1/2" and 3" flow as follows:

Coalescers/WS: from port 1 to port 2
Interceptors: from port 1 to port 2
Adsorbers: from port 1 to port 2.

The following are recommended filter locations relative to other compressed air equipment (unless specific instructions are given to the contrary):

(1) COALESCERS and WATER SEPARATORS (WS) (liquid removal) are placed before the dryer.
(2) The INTERCEPTOR (particulate removal) should be installed ahead of the COALESCER when prefiltration is required.
(3) The INTERCEPTOR (particulate removal) can also be installed downstream of desiccant dryers to prevent desiccant migration.
(4) The ADSORBER (vapor removal) is always preceded by a COALESCER.

OPERATION

Air coalescing is a continuous, balanced, steady-state process occurring at or below rated flow, which depends on two factors for high performance: (1) The bowl must be kept free of waste liquid buildup and (2) The element must be replaced when the differential pressure reaches 6-10 psid, 12 psid maximum. Differential pressure can be sensed at the inlet and outlet ports by two gages, or by Finite's DPI-13 differential pressure indicator, DPG-15 differential pressure gage, or by observing system characteristics.

Bowl draining is accomplished by opening the manual drain valve (standard on all housings), at least once every 8 hours depending on the liquid load. The Finite Auto-Drain AD-12 is a useful tool that replaces manual draining. Finite has an assortment of electrically timed drain valves that can be used to drain the bowl automatically.

A Finite coalescer, under normal system conditions, will operate for 6 to 12 months before reaching its maximum differential pressure. A "PU" series Interceptor, or a "QU" series coalescing element with a pleated prefilter can be employed ahead of the coalescer to increase its life. The interceptor should be replaced when its differential pressure reaches 8 - 10 PSID.

Finite coalescers are designed for nominal operation with 10-20 wt. oil. Any viscosity increase over that of 20 wt. oil must be offset by a proportionate oversizing of the filter element. Consult your Finite representative.

When Coalescer or Interceptor differential pressure reaches clogged condition (6-10 PSID) replace element immediately. DO NOT ATTEMPT TO CLEAN FILTER TUBE. System contamination can result. DO NOT BY-PASS THE COALESCER unless the by-pass line is also filtered.

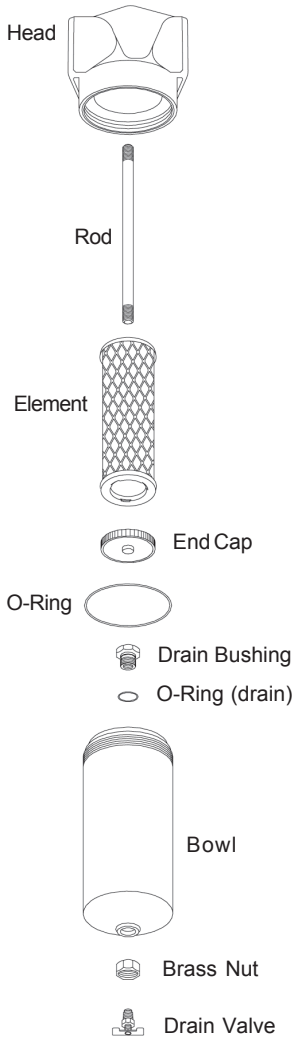
⚠ DANGER
Filter housings must be depressurized before performing any maintenance activities.

TROUBLESHOOTING CHART

PROBLEM	PROBABLE CAUSE	SOLUTION
Too High Initial Pressure Drop	Air flow excessive for housing size.	Install larger filter.
	Filter media grade too fine.	Install coarser element.
	Too much oil/water from compressor.	Precoalesce with grade 10 - oversize housing.
Premature Clogging (Air Flow Drops Off)	Lubricant improperly selected for compressor, causing varnish or carbonizing of lubricant.	Change oil, consult with lubricant supplier.
	Excessive inlet particulate contamination.	Prefilter with Interceptor.
	Excessive lubricants present on element caused by either high lubricant viscosity or very high inlet aerosol level.	Prefilter with Grade 10 and oversize coalescer to compensate.
	Oil/water emulsion forming on element.	Remove water by drip leg, aftercooler. Install mechanical separator upstream.
	Ice forming or oil viscosity too high due to excessively low unit temperature.	Raise temperature.
Oil Present Down-stream of Filter	Bowl not properly drained of waste liquids.	Drain regularly, use auto drain.
	Element not sealing.	Replace element.
	Filter piped backwards.	See "INSTALLATION"; Re-pipe.
	Filter being by-passed by valving.	Close valve.
	Contaminated air entering system from second source downstream.	Change pipe or relocate filter.
	Oil vapors condensing downstream.	Install an adsorber.
	Excessive inlet oil level.	Precoalesce with Grade 10 and possibly oversize.
	Element damaged, chemically attacked or not installed in housing.	Change and consult distributor or factory for other than neutral pH.
	Oil present in precontaminated downstream piping.	Clean piping.
	Excessive flow surges.	Relocate filter, precoalesce with grade 10 and oversize coalescers.

Assembly Drawing/Parts List

1 1/4" to 3" NPT/BSPF/BSPT



Part Name Port Size	H_5S 1 1/4"	H_6S 1 1/2"	H_8E 2"	H_8S 2"	H_8L 2"	H_OL 2 1/2"	H_12L 3"
Head - NPT	41328	41329	41330	41330	41330	41331	41332
Head (DPI) - NPT*	41333	41334	41335	41335	41335	41336	41337
Head,△P Ports NPT	41338	41339	41340	41340	41340	41341	41342
Head - BSPF	41434	41435	41436	41436	41436	41437	41438
Head (DPI), BSPF	41444	41445	41446	41446	41446	41447	41448
Head,△P Ports BSPF	41452	41453	41454	41454	41454	41455	41456
Head - BSPT	41478	41479	41480	41480	41480	41481	41482
Head (DPI) - BSPT*	41488	41489	41490	41490	41490	41491	41492
Head,△P Ports BSPT	41498	41499	41500	41500	41500	41501	41502
Head (DPI) - SAE32	N/A	N/A	42106	42106	42106	N/A	N/A
Elements:							
☐CU	☐CU25-130			☐CU25-187	☐CU25-235	☐CU35-280	
☐DV	☐DV25-130			☐DV25-187	☐DV25-235	☐DV35-280	
☐QU	☐QU25-130			☐QU25-187	☐QU25-235	☐QU35-280	
7CVP	7CVP25-130			7CVP25-187	7CVP25-235	7CVP35-280	
3PU	3PU25-130			3PU25-187	3PU25-235	3PU35-280	
100WS	100WS25-130			100WS25-187	100WS25-235	100WS35-280	
AU	AU25-130			AU25-187	AU25-235	AU35-280	
Rod	41347			41348	41349	41585	
End Cap	45079					45080	
End Cap (high temp)	41040					45080	
O-Ring	76246					75046	
O-Ring (high temp)	76246V					75046V	
Brass Drain Bushing	23054						
O-Ring (drain)	76114V						
Bowl Only	41464			41465	41466	41467	
Bowl Assy. w/Manual Drain	41533			41534	41535	41536	
Brass Nut	23041						
Drain Valve	70010						
Manual Drain Kit (includes Drain Valve, Brass Nut, Brass Drain Bushing and O-Ring) EBD-12							

☐=insert grade 2, 4, 6, 8 or 10

* DPI-13 or DPG-15 Differential pressure indicator required.

Optional Accessories

Differential Pressure Indicator Options

(When installed - Max. Operating pressure = 250 PSIG @ 175°F)
DPI-13 includes all parts listed out below plus a base plate (41117) for remote mounting.

Also available:
Kit 2003
(contains all DPI-13 parts listed below)

Also available DPI-13 Spare Parts:

Cap Screws - (2) 70005

Bracket - 40894

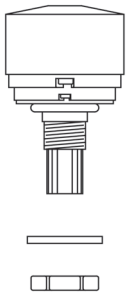
Shell - 40605

Spring - 40006

Piston - 40604

Diaphram - 41569

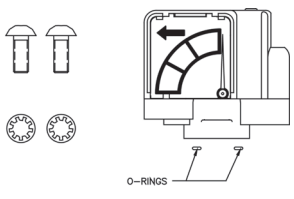
Automatic Drain Valve AD-12



(When installed - Max. Operating Pressure = 250 PSIG @ 175°F)

Differential Pressure Gauge DPG-15

(When installed - Max. Operating Pressure = 500 PSIG @ 175°F)



Note: DPG-15 comes with two o-rings and two screws (shown above) for mounting.

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Filtration and Separation Division
Oxford, MI

ASME Coded Vessels

Compressed Air & Gas Filters

- **Coalescing, Particulate & Hydrocarbon Adsorption**
- **Flows to 37,000 SCFM/$_{62,000\ m^3/hr}$**
- **3" NPT to 16" Flange**

Bulletin 1300 - 400/NA

Finite®

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Finite® Large Capacity

ASME Vessels

Finite Filter's large capacity ASME filter vessels have been designed specifically for our coalescing elements and incorporate large sump capacities and generous exit cavities for maximum performance with low differential pressures.

All units are "U" stamped and conform to ASME Section VIII standard code for pressure vessels. With flow capacities to 37,000 SCFM and optional materials of construction, most compressor source filtration requirements can be met.

Specifications:

Porting to: 16" Flange
Flows to: 37,000 SCFM/$_{63,000\ m^3/hr}$
Design: ASME Code/
CRN (Canadian Registration)

Available Options:
High Temperature
High Pressure
All Stainless Construction

Typical Applications

Coalescing (Oil Removal)

- Compressed air system protection
- Dryer protection
- Paint spray booths
- Microelectronics prefiltration

Interceptor (Particulate Removal)

- Natural gas systems
- Desiccant dryer afterfilter
- Prefilter for coalescer
- Systems with high particulate concentration
- Particulate protection for non-lubricated systems

Adsorber (Vapor Removal)

- Odor removal
- Food packaging
- Powder paint systems

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Applications & International ISO Standards

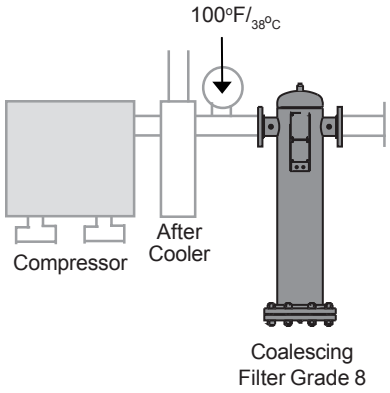
International Standard ISO8573-1 is fast becoming the industry standard method for specifying compressed air cleanliness. The chart to the right details the specifications of the classes. The diagrams below describe various systems in terms of their corresponding ISO classification.

Notification as specified in ISO8573 - 1

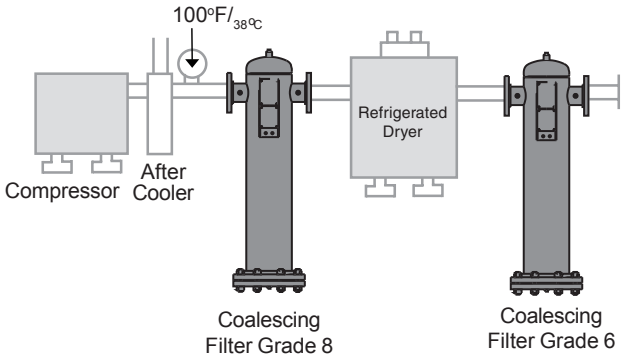
Class	Solid		Water		Oil	
	Maximum particle size (µm)	Maximum Concentration ppm (mg/m³)		Maximum Pressure Dew point °F (°C)		Maximum Concentration ppm (mg/m³)	
1	0.1	0.08	(0.1)	-94	(-70)	0.008	(0.01)
2	1	0.8	(1)	-40	(-40)	0.08	(0.1)
3	5	4.2	(5)	-4	(-20)	0.83	(1)
4	15	6.7	(8)	37	(+3)	4.2	(5)
5	40	8.3	(10)	45	(+7)	21	(25)
6	-	-	-	50	(+10)	-	-

Typical Applications

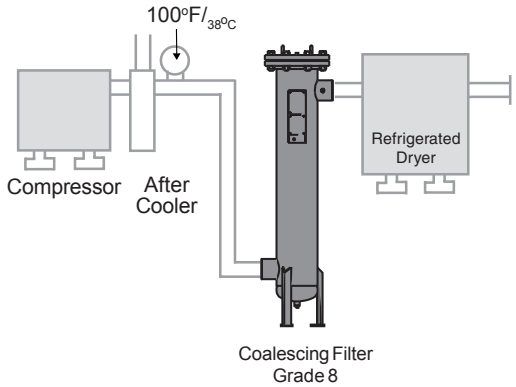
ISO Class 2 Solid — Water — 3 Oil



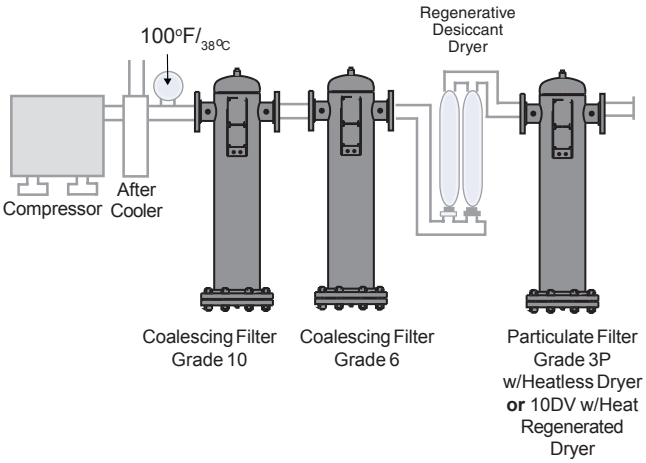
ISO Class 1 Solid — 4 Water — 1 Oil



ISO Class 2 Solid — 4 Water — 3 Oil



ISO Class 1 Solid — 2 Water — 1 Oil



Note: In the pictorial examples shown above, the contribution of hydrocarbon vapors has not been taken into account in determining the oil class category.

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Media Selection Chart

Finite Media Specifications

Grade Designation	Coalescing Efficiency 0.3 to 0.6 Micron Aerosols	Coalescing Filters - Maximum Oil Carryover[1] PPM w/w	Pressure Drop (PSID)[2] @ Rated Flow	
			Media Dry	Media Wet With 10-20 wt. oil
6	99.97%	0.008	1.5	4.0
7	99.5%	0.09	0.25	0.5
8	98.5%	0.5	1.0	3.5
10	95%	0.85	0.75	2.5
100WS	**N/A**	**N/A**	**<0.25**	**<0.50**
3P	**N/A**	**N/A**	**.5**	**N/A**
A	**99%+[3]**	**N/A**	**1**	**N/A**

[1]Tested per ADF-400 at 40 ppm inlet.
[2]Add dry + wet for total pressure drop.
[3]Oil vapor removal efficiency is given for A media.

Media Type

C: Microglass coalescer.
Q: Microglass coalescer with built-in pleated cellulose prefilter.
7CVP: Pleated microglass coalescer.
D: High-temperature microglass coalescer.
100WS: Rolled stainless steel mesh (100 µm nominal).
3P: Pleated cellulose particulate interceptor (3µm absolute).
A: Activated charcoal adsorber.

End Seals

	Element Spec	Max Temp
U: Molded Urethane (standard)	☐ CU, QU, 3PU	225°F/107°C
S: Molded Silicone	☐ CS, QS, 3PS	350°F/177°C
	☐ DS	450°F/232°C
V: Fluorocarbon gaskets on metal end caps	☐ AV	225°F/107°C
	☐ QV, 3PV	350°F/177°C
	☐ DV	450°F/232°C
	☐ 7CVP	225°F/107°C
	☐ 7DVP	400°F/204°C
	☐ CV	350°F/204°C

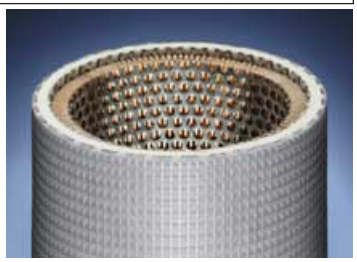
Coalescing (Oil Removal) Filter Media

MEDIA GRADE | MEDIA TYPE | END SEAL

Coalescing elements,except grades 6 and 7CVP, are marked with color bands corresponding to media grades below.

6 ☐ ☐

General Plant Air: High efficiency coalescing applications when removal of liquid aerosols and suspended fines is required.
Air Dryer System: Prefilter protection for desiccant type air dryers. Maintains dryer efficiency by preventing coating of bed with oil or varnish. Removes condensed water, leaving only vapors for dryer to remove. Prevents catastrophic oil flood should separator fail.



This cutaway depicts the standard grade 6 media, with media type Q.

7 CVP

General Plant Air: High efficiency pleated coalescing media for the removal of bulk liquids and aerosols. Pressure drop is very low.
Air Dryer System: Prefilter protection for refrigerated type air dryers. Maintains dryer efficiency by preventing coating of coils with oil or varnish. Removes condensed water leaving only vapors for dryer to remove. Prevents catastrophic oil flood should separator fail.

8 ☐ ☐

General Plant Air: Good air coalescing efficiency in combination with high flow rate and long element life. Generally used for plant air source system. Separate prefilter not required for "normal to light" particulate loading.
Air Dryer System: Prefilter protection for refrigerated type air dryers. Maintains dryer efficiency by preventing coating of coils with oil or varnish. Removes condensed water leaving only vapors for dryer to remove. Prevents catastrophic oil flood should separator fail.

10 ☐ ☐

General Plant Air: Precoalescer for heavy liquid aerosol loads. Prefilter for grades 6 and 8 when varnishing occurs due to high temperature operation with hydrocarbon based oil.
Air Dryer System: Provides afterfilter safety in high temperature configuration. Standard temperature (225°F/107°C) element specification: 10QU; mid temperature (350°F/177°C) element specification: 10QS; high temperature (450°F/232 °C) element specification: 10DS or 10DV.
NOTE: 10DS and 10DV recommended for afterfilter with heat regenerated type dryer.

100WS — Water Separator Filter Media

General Plant Air: Mist reduction and elimination of excess liquids in gas streams. Excellent prefiltration for coalescing grades 6 and 10 when extreme quantities of liquid contaminants are present.

3P — Interceptor (Particulate Removal) Filter Media

General Plant Air: Prefilter for coalescers where solid particle contaminants show heavy presence. Source particulate filtration where very high dirt loading capacity is required.
Air Dryer System: Safety afterfilter for desiccant type dryers to control dusting to the 3µm absolute level.

A — Adsorption (Odor Removal) Filter Media

General Plant Air: Polishing gas stream of final trace hydrocarbon contaminants when inlet concentrations are between 0.5 to 2.0 ppm. Neutralizes odor/taste of compressed air for edible products and other source applications where trace hydrocarbon vapor removal is required.

Note: Activated charcoal adsorbers should always be preceded by a coalescer.

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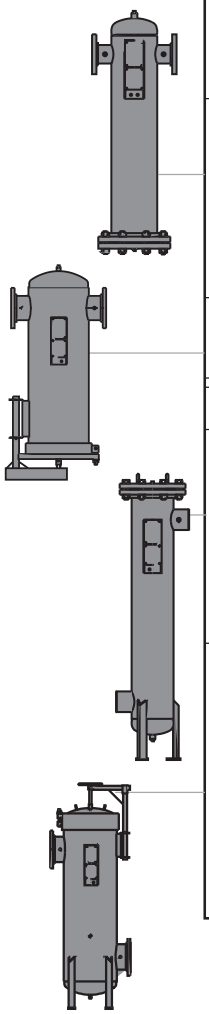
Oxford, MI

Housing Selection Chart



Housing Assembly	Replacement Element Numbers	Port Size (Inches)	Port Type	No. of Elements	Rated Flows: SCFM@ 100 PSIG/(m3hr@ 7 bar) Grade 6/A	Grade 8	Grade 10/3P/7CVP/100WS
Line Mount Vessels							
HT3-801	☐☐☐ 51-280	3	NPT	1	1500/2540	1800/3050	2490/4230
FT3-801	☐☐☐ 51-280	3	FLANGE	1	1500/2540	1800/3050	2490/4230
FT4-1201	☐☐☐ 85-250	4	FLANGE	1	2000/3390	2400/4070	3320/5640
FT6-1201	☐☐☐ 85-360	6	FLANGE	1	3000/5090	3600/6110	4980/8460
FT6-1603	☐☐☐ 51-280	6	FLANGE	3	4500/7640	5400/9170	7470/12690
Floor Mount Vessels							
HF3-801	☐☐☐ 51-280	3	NPT	1	1500/2540	1800/3050	2490/4230
FF3-801	☐☐☐ 51-280	3	FLANGE	1	1500/2540	1800/3050	2490/4230
FF4-1201	☐☐☐ 85-250	4	FLANGE	1	2000/3390	2400/4070	3320/5640
FF6-1201	☐☐☐ 85-360	6	FLANGE	1	3000/5090	3600/6110	4980/8460
FF6-1603	☐☐☐ 51-280	6	FLANGE	3	4500/7640	5400/9170	7470/12690
FF8-1804	☐☐☐ 51-280	8	FLANGE	4	6000/10190	7200/12230	9960/16920
FF10-2207	☐☐☐ 51-280	10	FLANGE	7	10500/17830	12600/21400	17430/29610
FF12-3011	☐☐☐ 51-280	12	FLANGE	11	16500/28030	19800/33640	27390/46530
FF16-3615	☐☐☐ 51-280	16	FLANGE	15	22500/38220	27000/45870	37350/63450

Note: Complete model number includes housing assembly designators + replacement element designators.
See "How To Order" example below.

How To Order

F	F	6	-	12	0 1	-	6	Q	U
Port Type	**Config.**	**Port Size**		**Filter Body (O.D. nom.)**	**Number of Elements**		**Media Grade**	**Media Type**	**End Seals**
H - NPT **F** - Flange	**F**-Floor Mount **T**-Line Mount	**3** - 3" **4** - 4" **6** - 6" **8** - 8" **10** - 10" **12** - 12" **16** - 16"		**8** - 8" **12** - 12" **16** - 16" **18** - 18" **22** - 22" **30** - 30" **36** - 36"	**01** - 1 Element **03** - 3 Elements **04** - 4 Elements **07** - 7 Elements **11** - 11 Elements **15** - 15 Elements		**6** **8** **10**	**C -** Microglass coalescer **Q -** Coalescer w/built in prefilter **D -** High Temp. microglass	**U - Urethane** Can be used for media types: C, Q, 3P **S - Silicone** Can be used for media types: C, Q, D, 3P **V - Fluorocarbon** Can be used for media types: C, Q, 3P, D Standard on: 7CVP, 7DVP, 100WS, A
							7CVP	Leave Blank for 7CVP	
							100WS	Leave Blank for 100WS	
							3P	Leave Blank for 3P	
							A	Leave Blank for A	

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Oxford, MI

Accessories

Temp: 200°F (93°C)
Pressure: 250 PSIG (17 bar)

KBDPG-15
Differential Pressure Gauge Kit

Temp: 200°F (93°C)
Pressure: 250 PSIG (17 bar)

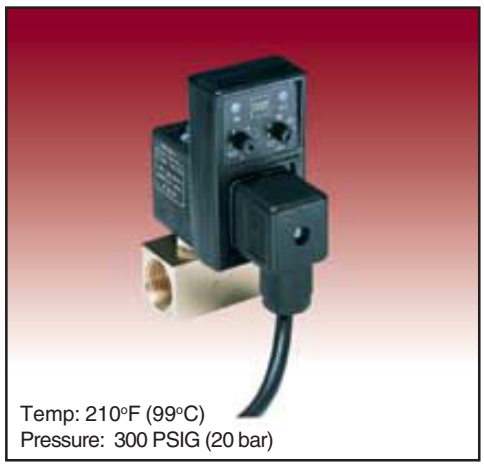
KBDPI-25
Differential Pressure Gauge Kit

Temp: 450°F (232°C)
Pressure: 150 PSIG (10 bar)

ADT-50
Float Actuated Drain Trap

Temp: 140°F (60°C)
Pressure: 250 PSIG (17 bar)

ZLD-10/ZLD-20
Zero Air Loss Condensate Drain



Temp: 210°F (99°C)
Pressure: 300 PSIG (20 bar)

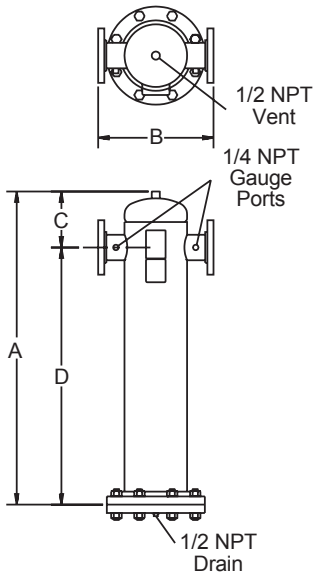
TV-50
Timed Solenoid Valve Drain Trap

Temp: 450°F (232°C)
Pressure: 250 PSIG (17 bar)

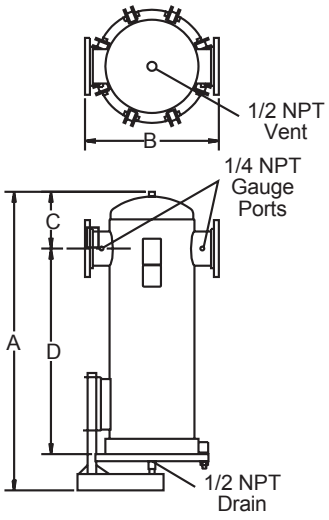
ADS-50
Float Actuated Stainless Steel Drain Trap

Note: All accessories are sold separately.

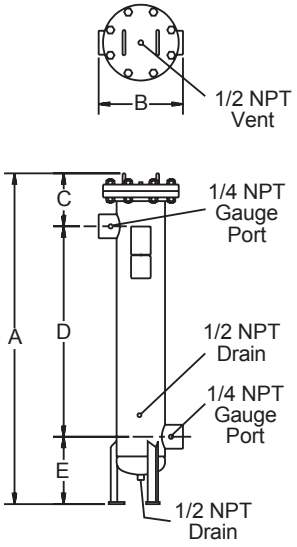
Drawings, Dimensions & Specifications



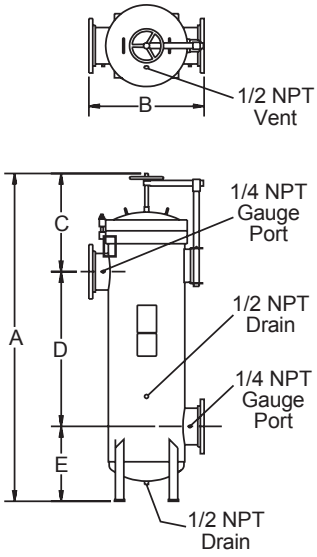
Refer to this drawing for:
HT3-801(NPT)
FT3-801
FT4-1201
FT6-1201



Refer to this drawing for:
FT6-1603



Refer to this drawing for:
HF3-801(NPT)
FF3-801
FF4-1201
FF6-1201



Refer to this drawing for:
FF6-1603
FF8-1804
FF10-2207
FF12-3011
FF16-3615

Dimension[1]	A	B	C	D	E	Element Removal Clearance	Sump Capacity[2]	Weight[3]
HT3-801	43.1/109.5	15.0/38.1	7.7/19.5	35.4/89.9		28/71.1	0.81/3	190/86
FT3-801	43.1/109.5	16.0/40.6	7.7/19.5	35.4/89.9		28/71.1	0.81/3	190/86
FT4-1201	42.7/108.5	20.0/50.8	9.7/24.6	33.0/83.8		25/63.5	2.0/7	380/173
FT6-1201	56.4/143.3	20.0/50.8	11.4/29.0	45.0/114.3		36/91.4	2.0/7	380/173
FT6-1603	57.8/146.8	26.0/66.0	11.0/27.9	39.8/101.1		28/71.1	2.0/7	340/155
HF3-801	58.9/149.6	15.0/38.1	9.4/23.8	37.5/95.2	12.0/30.4	28/71.1	1.1/4	190/86
FF3-801	58.9/149.6	16.0/40.6	9.4/23.8	37.5/95.2	12.0/30.4	28/71.1	1.2/4	200/91
FF4-1201	63.3/160.7	20.0/50.8	12.3/31.2	35.0/88.9	16.0/40.6	25/63.5	4.2/16	370/168
FF6-1201	75.3/191.2	20.0/50.8	12.3/31.2	47.0/119.3	16.0/40.6	36/91.4	3.6/14	410/186
FF6-1603	77.3/196.3	26.0/66.0	20.8/52.8	40.5/102.8	16.0/40.6	28/71.1	5.0/19	340/155
FF8-1804	87.3/221.7	30.0/76.2	25.8/65.5	42.5/108.0	19.0/48.3	28/71.1	8.7/33	550/250
FF10-2207	96.0/243.8	34.0/86.3	28.5/72.4	45.5/115.5	22.0/55.8	28/71.1	14.8/56	750/341
FF12-3011	101.0/256.5	44.0/111.7	27.5/69.8	47.5/120.6	26.0/66.0	28/71.1	25.5/97	1300/591
FF16-3615	112.0/28.4	52.0/132.0	32.0/81.3	50.0/127.0	30.0/76.2	28/71.1	56.2/213	1700/773

[1]Dimensions are in inches/centimeters. [2]Sump Capacity is in gallons/liters. [3]Weight is in pounds/kilograms.

Materials of Construction

Body: Carbon Steel

Paint: Epoxy Enamel (Gray)

Internals: Epoxy powder painted carbon steel

Seals: Inorganic flange gasket (single element vessels)
Fluorocarbon o-ring (multi element vessels)

Internal Coating: Epoxy enamel

Specifications

Max Pressure: 185 PSIG/12.5 bar

Max Temperature: 450°F/232°C

Meets A.S.M.E. Code, Section VIII, Division 1

Note: Consult factory for special requirements.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Maintenance Bulletin - ASME Series (3" NPT to 16" Flange)

Caution!

1. Vessels are shipped from the factory without element(s). The element(s) are shipped separately. The vessel should be set and plumbed before installation of element(s) and differential pressure gauge to minimize the possibility of damage.

2. Air temperature must be below 200° F when using the nylon tubing supplied with the differential pressure gauge kit. Use copper or stainless steel tubing for higher temperature applications, and remote mount the gauge (do not attach to vessel nameplate bracket).

Air Flow Direction for Coalescing:

When coalescing liquid aerosols from an airstream, the waste liquid must be drained from the vessel sump. In order for this liquid to be properly drained, the air must flow from the inside of the element to the outside. **

** Be especially careful when plumbing a vessel containing "DS" or "DV" element(s). This high temperature element is commonly used as either a coalescer (liquid removal) or a particulate filter. Inlet and outlet labels are installed at the factory denoting coalescing (in to out) flow.

Proper Flow Directions:

Inside to Out: All elements used for liquid removal, coalescing ("C", "Q" and "D") elements.

Outside to In: All elements used for particulate removal only; adsorbers, particulate, and high temperature ("A", "P" and "D") elements.

⚠ WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application including consequences of any failure, and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

Repair Parts

Part Number	Complete Frame Kit	Frame	Seal Nut	End Cap	Housing Closure Seal
HT3-801	KV-2A	80055	71054	80000	80005
FT3-801	KV-2A	80055	71054	80000	80005
FT4-1201	KV-5A	80063	71054	80003	80007
FT6-1201	KV-6A	80076	71054	80003	80007
FT6-1603	KV-2A	80055	71054	80000	76463V
HF3-801	KV-2A	80055	71054	80000	80005
FF3-801	KV-2A	80055	71054	80000	80005
FF4-1201	KV-5A	80063	71054	80003	80007
FF6-1201	KV-6A	80076	71054	80003	80007
FF6-1603	KV-2A	80055	71054	80000	76463V
FF8-1804	KV-2A	80055	71054	80000	76467V
FF10-2207	KV-2A	80055	71054	80000	76472V
FF12-3011	KV-2A	80055	71054	80000	75035V
FF16-3615	KV-2A	80055	71054	80000	75036V

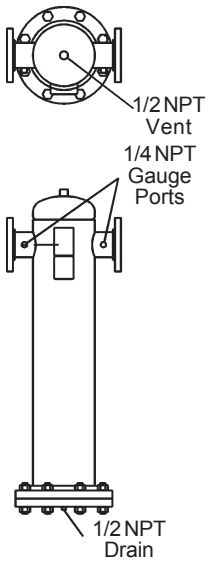
Initial Installation Notes

1. Remove element from carton. Be careful not to scratch or abrade media O.D. or elastomer end seals.
2. Inlet and outlet gauge ports should be plugged if unused.
3. Drain valve(s), whether manual or automatic should be closed.
4. To avoid damage, install element(s) after housing has been plumbed and inspected. Follow "Element Replacement" procedure.
5. Check flow direction per "Installation" Instructions on page 3, and, the "air flow directions" on the cover.
6. Initiate flow slowly to avoid exceeding element maximum flow rate, expecially in high volume systems.
7. Avoid venting the air system so as to cause a reverse flow through the vessel.

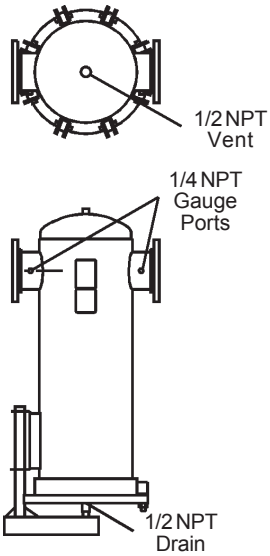
Element Replacement

1. Depressurize housing, remove closure bolts and cover.
2. Unscrew and remove element retainer nut and blank end cap.
3. Pull clogged element straight out, avoiding element frame and discard.
4. Clean blank and closure end cap sealing surfaces and inspect for damage. (If sump requires cleaning, element frame is pipe thread mounted and can be removed by rotating C-C-W. - notch provided.)
5. Wipe new element seals off and carefully place element over element frame. Squarely seat against flat end cap sealing surface.
6. Replace blank end cap squarely against element seal and replace retainer seal nut.

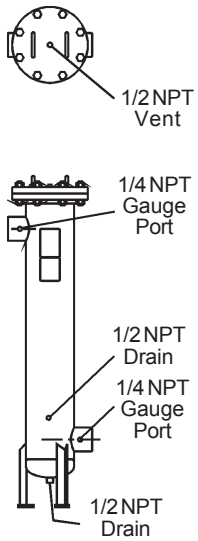
Tighten only until element seals are slightly compressed.



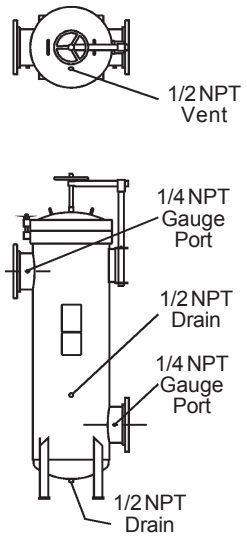
Refer to this drawing for:
HT3-801(NPT)
FT3-801
FT4-1201
FT6-1201



Refer to this drawing for:
FT6-1603



Refer to this drawing for:
HF3-801(NPT)
FF3-801
FF4-1201
FF6-1201



Refer to this drawing for:
FF6-1603
FF8-1804
FF10-2207
FF12-3011
FF16-3615

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Filtration and Separation Division
Oxford, MI

INSTALLATION

Finite filters should be installed in a level pipeline mounted vertically, the vessel sump downward with one element length clearance above or below vessel for element removal. The filter should be installed at the highest pressure point available, and as near as possible to the equipment to be protected and have a drip leg immediately upstream. The coalescers and particulate filters should be visible and easily accessible for periodic draining and maintenance.

The filters should be piped in accordance with the "IN" and "OUT" labels. Should these tags become unreadable, install the coalescer so that flow passes through the filter tube from inside-to-outside. Plumb particulate and adsorber filters so that flow passes through the filter from outside-to-inside. The various filter locations relative to other equipment should be as follows (unless specific instructions are given to the contrary):

(1) COALESCERS and WATER SEPARATORS (WS) (liquid removal) are placed before the dryer.
(2) The INTERCEPTOR (particulate removal) should be installed ahead of the COALESCER when prefiltration is required.
(3) The INTERCEPTOR (particulate removal) can also be installed downstream of desiccant dryers to prevent desiccant migration.
(4) The ADSORBER (vapor removal) is always preceded by a COALESCER.

When Coalescer or Interceptor differential pressure reaches clogged condition (6-8 PSID) replace element immediately. DO NOT ATTEMPT TO CLEAN FILTER TUBE. System contamination can result. DO NOT BY-PASS THE COALESCER unless the by-pass line is also filtered.

OPERATION

Air coalescing is a continuous, balanced, steady-state process occurring at or below rated flow, which depends on two factors for high performance: (1) The vessel sump must be kept free of waste liquid buildup and (2) The element must be replaced when the differential pressure reaches 6-8 psid, 12 psid maximum. Differential pressure can be sensed at the inlet and outlet ports by two gauges, or by Finite's KBDPI-25 differential pressure gauge.

Vessel sump draining is accomplished by opening the customer supplied manual drain valve, at least once every 8 hours depending on the liquid load. Connecting an automatic drain to the vessel sump is highly recommended. (See literature on Finite's TV-50, TD-50 or ZLD-10 timed drain valves.)

Floor standing vessels have two sumps and two drain connections. Never connect these drains together as contamination of the outlet gas will occur. Two separate drain lines with separate drain traps or valves should be used to ensure that contamination won't occur.

A Finite coalescer, under normal system conditions, will operate for 6 to 12 months before reaching its maximum differential pressure. A "PU" series Interceptor, or a "QU" series coalescing element with a pleated prefilter can be employed ahead of the coalescer to increase its life. The interceptor should be replaced when its differential pressure reaches 8 - 10 psid.

Finite coalescers are designed for nominal operation with 10-20 wt. oil. Any viscosity increase over that of 20 wt. oil must be offset by a proportionate oversizing of the filter element. Consult your Finite representative.

TROUBLESHOOTING CHART

PROBLEM	PROBABLE CAUSE	SOLUTION
Too High Initial Pressure Drop	Air flow excessive for housing size. Filter media grade too fine.	Install larger filter housing. Install coarser element.
	Too much oil/water from compressor.	Pre-coalesce with grade 10 - oversize housing.
Premature Clogging (Air Flow Drops Off)	Lubricant improperly selected for compressor, causing varnish or carbonizing of lubricant.	Change oil, consult with lubricant supplier.
	Excessive inlet particulate contamination.	Prefilter with Interceptor.
	Excessive lubricants present on element caused by either high lubricant viscosity or very high inlet aerosol level.	Prefilter with Grade 10 and oversize coalescer to compensate.
	Oil/water emulsion forming on element.	Remove water by drip leg, aftercooler. Install mechanical separator upstream.
	Ice forming or oil viscosity too high due to excessively low unit temperature.	Raise temperature.
Oil Present Down-stream of Filter	Bowl not properly drained of waste liquids.	Drain regularly, use auto drain.
	Element not sealing.	Clean sealing surfaces or replace element.
	Filter piped backwards.	See "INSTALLATION"; Re-pipe.
	Filter being by-passed by valving.	Close valve.
	Contaminated air entering system from second source downstream.	Change pipe or relocate filter.
	Excessive inlet oil level.	Check source and eliminate.
	Element damaged, chemically attacked or not installed in housing.	Change and consult distributor or factory for other than neutral pH.
	Oil present in pre-contaminated downstream piping.	Clean piping.

Parker Hannifin Corporation
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Oxford, MI

BA-Series

Dual-Stage Compressed Air Filters

- **Coalescer/Adsorber Combination Unit**
- **Flows to 75 SCFM**
- **Pressures to 500 PSIG**

Bulletin 1300 - 905/USA

Finite®

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Finite® Breathing Air Purifiers

Dual-Stage Compressed Air Filters - BA-Series

Finite®'s BA-Series Purifiers are available in 3/4" and 1" NPT connection sizes. Additional sizes (1/4", 3/8" and 1/2" NPT) will be available summer 2004.

BA-Series filters are designed to be used as point-of-use breathing air filters. This combination unit contains both a fine grade coalescing filter element and an activated carbon vapor removal element.

BA-Series filters may also be used in applications requiring compressed air to be free of odor or taste bearing hydrocarbons. Food/beverage applications would be typical where compressed air comes in contact with the product. The BA-Series can also be used as a prefilter for critical needs such as zero air generators, membrane filters and many others!

Replacement elements are supplied in convenient repair kits which include one coalescing element, two activated carbon adsorber elements, and replacement seals. Two adsorber elements are supplied because the stage one coalescer will routinely outlive the extremely sensitive second-stage adsorber element.

For severe applications with excessive solid and liquid contaminants, the BA-Series should be preceded by Finite® H-Series (Bulletin 1300-993/USA) pre-coalescer or interceptor filters.

Finite® also supplies pressure regulators which can be used downstream of the BA-Series to lower system operating pressures to desired levels for breathing air applications. Please refer to Finite® bulletin 1300-703-3/USA.

Finite®'s BA - Series Offers...

- Connection sizes: 3/4" and 1" NPT
- Flows: Up to 75 SCFM
- Maximum Pressure: 500 PSIG
- Maximum Temperature: 175° F
- Drain Port: 1/8" NPT with standard manual drain (float drain available)

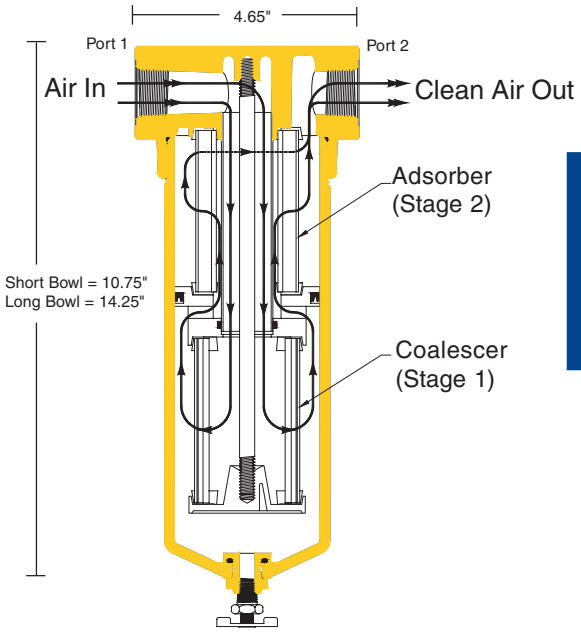
Typical Applications

- Industrial Breathing Air
- Aircraft Cabin Air
- Zero Air Generator Prefilter
- Food Processing/Packaging
- Membrane Prefiltration
- Instrument Air Dryer Prefilter

How it works

Compressed air enters port #1 of the housing and is directed down a hollow chamber into the first-stage coalescing element (bottom). Oil, water and solid contaminant is removed with a 99.97% or higher efficiency as the air flows from the inside of the element to the outside. The coalesced liquid drains off the element into the bowl where it is removed either manually, or by an automatic float drain. The oil-free air then is redirected upwards to the inside of the adsorber element (top) by means of a non-bypassing separation device. The second stage's activated carbon element collects hydrocarbon vapors as the air flows from the inside to the outside of the element. The purified air then exits through port #2 of the housing.

Note: This product does not remove toxic gases from the air stream. A carbon monoxide monitor is recommended.



Choice of media types

All BA filters have an activated carbon element (Stage 2). Depending on the application, you may either choose to use a micro-glass coalescer (C) or a micro-glass coalescer with a built-in prefilter (Q) (Stage 1.)

Stage 1

C: Micro-glass coalescer

Q: Micro-glass coalescer with built-in pleated prefilter

Grade 4

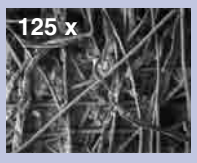
Grade 6

Stage 1 coalescers come in grade 6 (standard) or grade 4. Choose grade based on coalescing efficiencies in the chart below.

Stage 2

A: Activated Carbon

Grade A



Stage 2 adsorber polishes air stream of final trace amounts of hydrocarbon vapors with an efficiency of 99%+.

Coalescing Media Specifications

Grade Designation	Coalescing Efficiency .3 to .6 Micron Aerosols	Maximum Oil Carryover[1] PPM w/w	Micron Rating
4	99.995%	.003	.01
6	99.97%	.008	.01

[1]Tested per ADF-400 at 40 ppm inlet.

Q. & What is the expected life of my BA-Series filter element?

A. Expected life of the filter elements is entirely dependent on the quality of the incoming compressed air, but can be several thousand hours. However, the elements should be changed whenever odors and/or taste become present regardless of hours in operation.

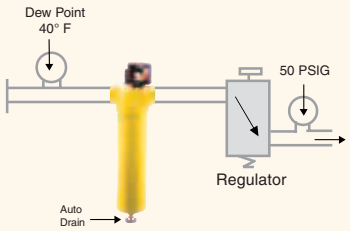
Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Flow Ratings:

	BAN3S		BAN4S		BAN3L		BAN4L	
	Grade 4	Grade 6	Grade 4	Grade 6	Grade 4	Grade 6	Grade 4	Grade 6
Max. Rated Flow at 100 PSIG	25 scfm	30 scfm	35 scfm	45 scfm	40 scfm	60 scfm	50 scfm	75 scfm
△p (dry)	1.5		2.0		1.5		2.0	
△p (wet)	3.5		4.0		3.5		4.0	

Note: The differential pressure (△p) includes the effects of the housing and both elements.

Application:



Use any compressor with aftercooler and refrigerated dryer. Air intended for use as industrial breathing air and in decompression chambers. CAUTION: Always use high temperature synthetic lubricants and monitor (alarm) for carbon monoxide concentrations exceeding established maximum recommended levels. This system will not eliminate toxic gases!

OTHER SPECS MET: O.S.H.A. 29CFR 1910.134

How to Order

Complete Dual Stage Assemblies

BA	N	3	L	—	6	C	U	G
Series Name	**Port Type** **N** - NPT	**Port (Connection) Size** **3** - 3/4" **4** - 1" Note: Bowl length is determined by the flow rate required. See Flow Ratings Chart above.	**Bowl** **S** - Standard **L** - Long		**Element Grade** **4** **6** Note: Designate first stage grade and media type, second stage media type will always be "A" media, and is not designated in the part number	**Element Type** **C** **Q**	**End Seal** **U = Urethane** (Standard on all elements)	**Accessory Designator** **for preinstalled accessories** **A** - Auto Drain **G** - DPG Gauge (Standard) **N** - No Accessories **Y** - A + G

BA-Series Replacement Elements

K	BA	3	L	6	C	U
Repair Kit	**Series Name**	**Port (Connection) Size** **3** - 3/4" **4** - 1"	**Bowl** **S** - Standard **L** - Long	**Element Grade** **4** **6**	**Element Type** **C** **Q**	**End Seal** **U = Urethane** (Standard on all elements)

Note: Each repair kit contains (1) coalescing element, (2) activated carbon adsorber elements and replacement seals.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Micro-Series

Air/Gas Microfiltration Products

Membrane Elements and Housing Assemblies For:

- Semiconductor/Microelectronics
- Medical/Pharmaceutical
- Food and Beverage

Bulletin 1300 - 450/USA

Finite®

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Finite's Air and Gas Microfiltration Products - Micro Series

Finite® Filter's Micro-Series filters are designed to provide absolute rated membrane filtration for the semiconductor, pharmaceutical, and food and beverage markets. Our pleated membrane media offers absolute removal ratings for contaminants as small as 0.01 um while providing lower differential pressures than competitive membrane products.

Finite®s pleated PTFE media has the lowest pressure drop at rated flow and the highest efficiency in the filtration industry. These important factors provide substantial savings for our customers.

All filter housings are constructed of 316L stainless steel and have a maximum pressure rating of 150 psig/10 bar. Connection sizes range from 1" NPT to 6" flange.

Industries & Applications

Semiconductor/Microelectronics

Clean, dry air (CDA) final filters
Hard disk manufacturing
Automated disk testers
Wafer drying systems
CDA to replace use of nitrogen
Wafer polishing equipment

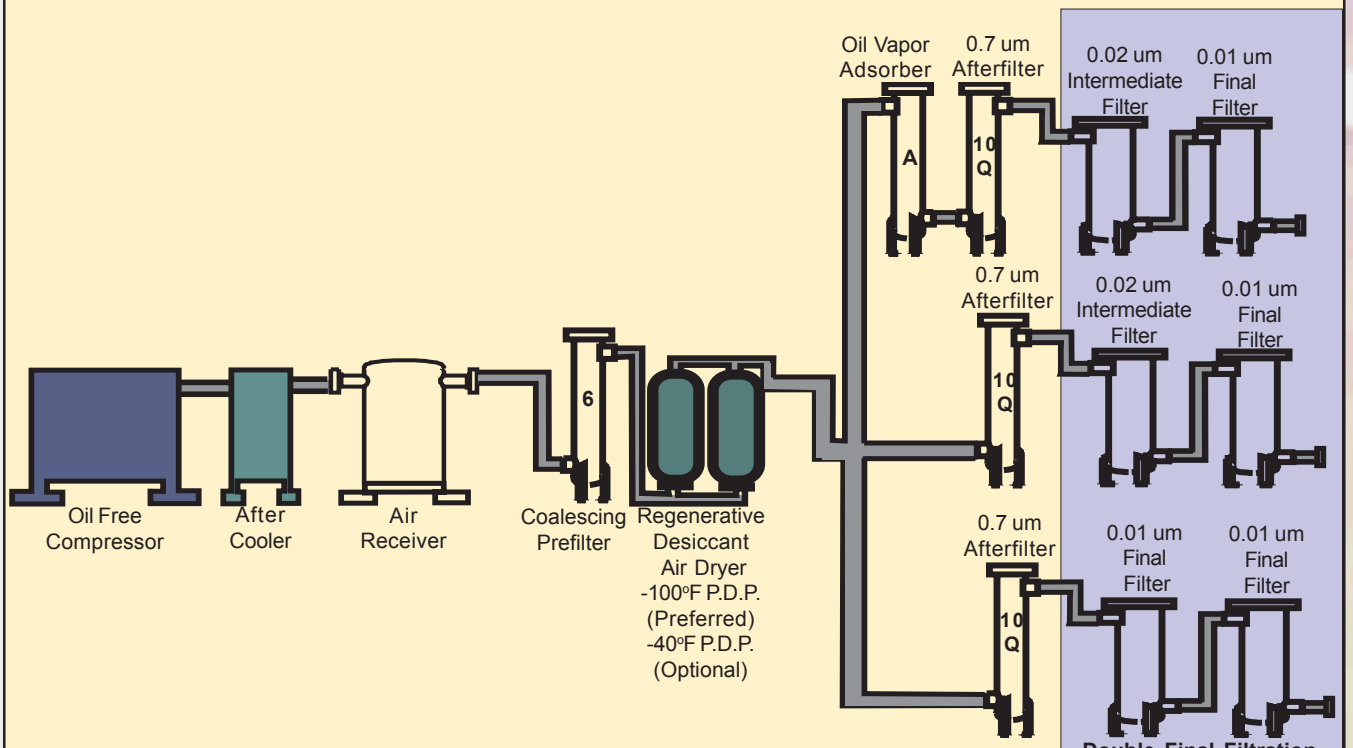
Pharmaceutical/Medical

Bag cleaning
Laboratory air
Filtration of bulk gases
Bottle filling machines
Venting of holding tanks
Gas calibration equipment

Food and Beverage

Aseptic packaging
Blow molding
Purging
Air bearings/motors
Conveying
Tank padding

Typical Clean, Dry Air (CDA) Installations



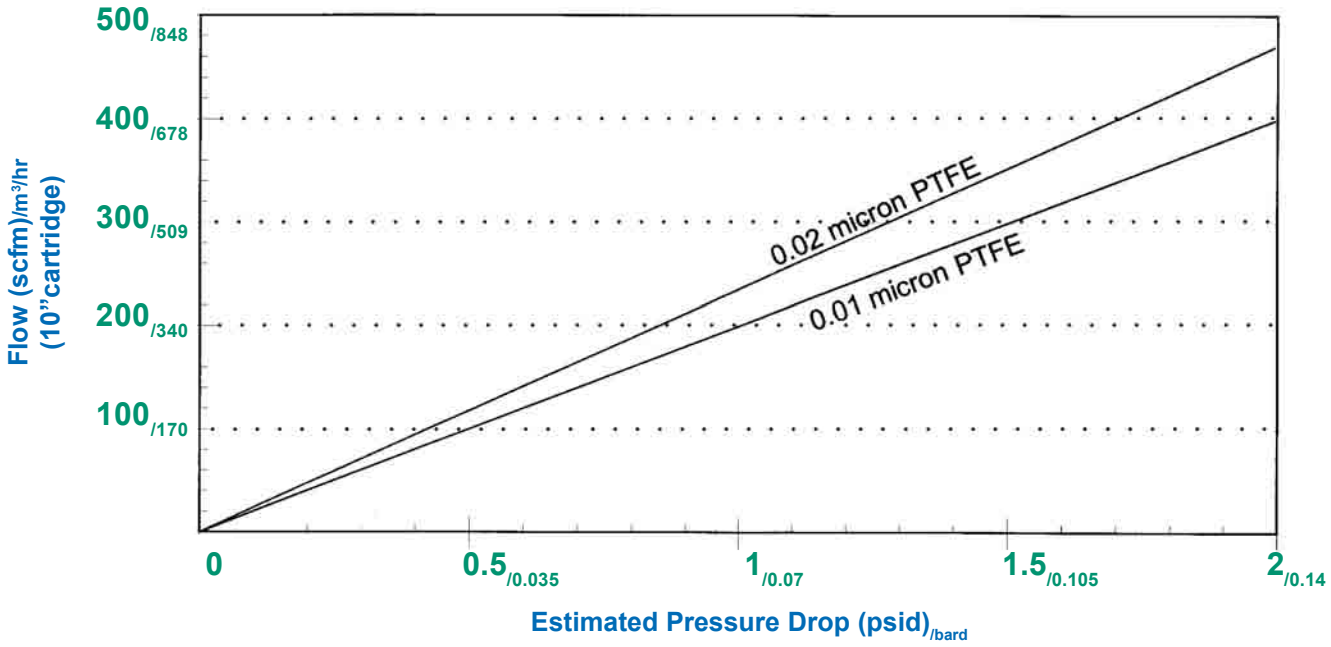
The filters in this yellow section are detailed in bulletin #1300-400.

The filters in this blue shaded section are detailed in this brochure.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Media Selection

Flow vs. Dry Pressure Drop
at 100 PSIG/7 bar



Features and Benefits - PTFE Membrane

- PTFE membrane media is non-fiber releasing and provides broad chemical compatibility
- High flow rates and optimized surface area reduce filter consumption
- 100% Integrity tested
- Pleated construction provides large high purity filtration area for maximum yields
- Biosafe in accordance with USP Class V1-121°C Plastics Tests
- Polypropylene support hardware with Viton® o-ring seals withstands demanding operating conditions
- Narrow pore size distribution ensures the ultimate in retention and flow rate
- All materials of construction are FDA listed as acceptable for food contact according to CFR Title 21
- Manufactured and packaged in Class 10 clean room
- 99.999999% (8 log) efficiency at specified removal ratings (0.01 um, 0.02 um)

Membrane Element Specifications

Sealing Technology: Thermal Bonding
O-Rings/Gaskets: *Viton®
Maximum Differential Pressure (FWD): 60 PSID
Maximum Differential Pressure (REV): 50 PSID
Packaging: Double bagged in Class 10 clean room

Double Open Ended
(MT Housing Series)

222/Flat
(MF Housing Series)

PTFE Membrane Elements

(PTFE Membrane Elements have polypropylene membrane support and polypropylene end caps)

	Finite P/N	Micron Rating	Bubble Point (PSIG /bar)	Surface Area (SQ. FT. /SQ. Meters)	Max. Temp. °F /°C
Double Open Ended	1BAP20-100V	0.01um	≥24 /1.7	7.5 /0.8	175° F /79°C
	1BAP20-200V	0.01um	≥24 /1.7	15.0 /1.6	175° F /79°C
	2BAP20-100V	0.02um	≥16 /1.1	7.5 /0.8	175° F /79°C
	2BAP20-200V	0.02um	≥16 /1.1	15.0 /1.6	175° F /79°C
222/Flat	1BDP20-100V	0.01um	≥24 /1.7	7.5 /0.8	175° F /79°C
	1BDP20-200V	0.01um	≥24 /1.7	15.0 /1.6	175° F /79°C
	1BDP20-300V	0.01um	≥24 /1.7	22.5 /2.4	175° F /79°C
	2BDP20-100V	0.02um	≥16 /1.1	7.5 /0.8	175° F /79°C
	2BDP20-200V	0.02um	≥16 /1.1	15.0 /1.6	175° F /79°C
	2BDP20-300V	0.02um	≥16 /1.1	22.5 /2.4	175° F /79°C

How To Order Membrane Elements

(Housings must be ordered separately- see Housing Selection Chart on next page.)

1	B	D	P	20	-	200	V
Nominal Pore Size	**Materials of Construction**	**End Cap Configuration**	**Pleated Media**	**Nominal Element Diameter**		**Nominal Length**	**O-Ring/Gasket Material**
1 - 0.01 um 2 - 0.02 um 5 - 0.045 um	B - PTFE	A - Double Open D - 222/Flat	P	20 - 2.7" Outside Dia.		100 - 10 in. 200 - 20 in. 300 - 30 in.	*Viton® *Viton is a registered trademark of E.I. DuPont De Nemours Co.

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Housing Selection

Housing Model Number	Port Size	Port Type	# of Elements To Order Per Housing	Element Length	Element Seal Design	Flow (SCFM)/m^3/hr @ 100 PSIG, 1 PSID .01 um PTFE	Flow (SCFM)/m^3/hr @ 100 PSIG, 1 PSID .02 um PTFE
MT1N-0110	1”	NPT	1	10”	D.O.E.	150/254	225/381
MT1N-0120	1”	NPT	1	20”	D.O.E.	250/424	375/636
MF2N-0310	2”	NPT	3	10”	222/FLAT	600/1017	720/1220
MF2F-0310	2”	FLANGE	3	10”	222/FLAT	600/1017	720/1220
MF2N-0320	2”	NPT	3	20”	222/FLAT	1200/2034	1440/2440
MF2F-0320	2”	FLANGE	3	20”	222/FLAT	1200/2034	1440/2440
MF3F-0330	3”	FLANGE	3	30”	222/FLAT	1800/3051	2160/3661
MF3F-0520	3”	FLANGE	5	20”	222/FLAT	2000/3390	2400/4068
MF3F-0530	3”	FLANGE	5	30”	222/FLAT	3000/5085	3600/6102
MF4F-0720	4”	FLANGE	7	20”	222/FLAT	2800/4746	3360/5695
MF4F-0730	4”	FLANGE	7	30”	222/FLAT	4200/7119	5040/8543
MF6F-1030	6”	FLANGE	10	30”	222/FLAT	6000/10,170	7200/12,204
MF6F-1530	6”	FLANGE	15	30”	222/FLAT	9000/15,255	10,800/18,306

MT1 Series

- 316L Stainless Steel
- Thru-rod housing design
- 1” NPT threaded inlet and outlet ports
- Threaded vent and drain connections
- T-Type (line mounted design)
- Single double open ended element design
- Cartridge lengths 10” and 20” available
- Viton® seals used throughout

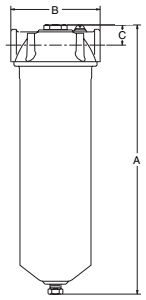
MF2 & MF3 Series

- 316L Stainless Steel
- Single Viton® o-ring for positive housing seal
- Swing bolts w/ eyenuts
- ASME Code - UM Stamped
- Threaded vent and drain connections
- Adjustable leg height
- Flanged or threaded inlet and outlet connections
- Side inlet, bottom outlet

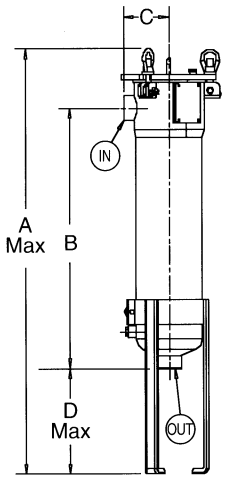
MF4 & MF6 Series

- 316 Stainless Steel
- Single Viton® o-ring for positive housing seal
- Swing bolts w/ eyenuts
- ASME Code - UM Stamped
- Threaded vent, drain, gauge connections
- Mechanical cover lift standard

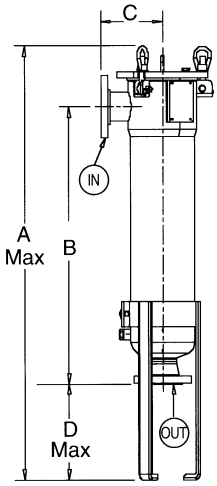
Drawings, Dimensions & Specifications



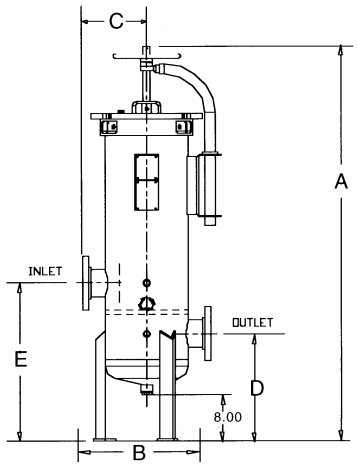
MT1N



MF2N



MF2F/MF3F



MF4F/MF6F

DIMENSION	A	B	C	D	E	WEIGHT
MT1N-0110	13.38 /33.98	4.44 /11.28	1.25 /3.18	N/A	N/A	5 /2.28
MT1N-0120	23.38 /59.38	4.44 /11.28	1.25 /3.18	N/A	N/A	8 /3.63
MF2N-0310	33.00 /83.82	12.38 /31.45	5.75 /14.60	13.19 /33.50	N/A	82 /37.23
MF2F-0310	33.00 /83.82	13.56 /34.44	8.00 /20.32	12.00 /30.48	N/A	90 /40.86
MF2N-0320	43.06 /109.37	22.44 /56.0	5.75 /14.60	13.19 /33.50	N/A	87 /39.50
MF2F-0320	43.06 /109.37	23.63 /60.02	8.00 /20.32	12.00 /30.48	N/A	95 /43.13
MF3F-0330	53.13 /134.95	33.94 /86.28	8.00 /20.32	11.75 /29.85	N/A	110 /49.94
MF3F-0520	43.06 /109.37	23.88 /60.56	8.00 /20.32	11.75 /29.85	N/A	105 /47.67
MF3F-0530	53.13 /134.95	33.94 /86.21	8.00 /20.3 2	11.75 /29.85	N/A	110 /49.94
MF4F-0720	56.13 /142.57	18.00 /45.72	9.00 /22.86	18.00 /45.72	26.50 /67.31	250 /113.50
MF4F-0730	66.19 /168.12	18.00 /45.72	9.00 /22.86	18.00 /45.72	26.50 /67.31	270 /122.58
MF6F-1030	68.19 /173.20	20.00 /50.80	10.00 /25.40	19.00 /48.26	29.50 /74.93	310 /140.74
MF6F-1530	70.38 /178.70	23.25 /59.06	11.63 /29.54	21.00 /53.34	31.50 /80.01	415 /188.41

Note: Dimensions are in inches/centimeters; weight is in pounds/kilograms.

How To Order Membrane Housings

(Elements must be ordered separately)

M	F	6	F	-	15	30
Micro-Series	**Line or Floor Mount**	**Connection**	**Connection Type**		**# Elements/ Housing**	**Element Length**
M - Microfiltration	T - Line Mount F - Floor Mount	1 - 1” Conn. 2 - 2” Conn. 3 - 3” Conn. 4 - 4” Conn. 6 - 6” Conn.	N - NPT F - Flange		01 - 1 Element 03 - 3 Elements 05 - 5 Elements 07 - 7 Elements 10 - 10 Elements 15 - 15 Elements	10 - 10” 20 - 20” 30 - 30”

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Filtration and Separation Division
Oxford, MI

Notes:

finitefilter@parker.com

Instrumentation and Gas Sampling Filters

- **Stainless Steel**
- **Aluminum**
- **Plastic**
- **Hastelloy®**

Bulletin 1300 - 694/USA

Finite®

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Filtration and Separation Division
Oxford, MI

Finite®
Instrumentation and Gas Sampling Filters

Finite's instrumentation and point-of-use product line offers compressed air/gas filtration solutions for food processing, chemical processing, and compressed natural gas applications.

Typical installations include contaminant removal for breathing air, protection of gas analyzers and prefilters for instrument air dryers.

Our UNI-CAST element technology allows us to vacuum form high-efficiency particulate and coalescing filter elements.

Our elements are designed with high void volumes to provide longer element life while yielding lower pressure drops.

Made directly from the highest quality microglass fibers available, Finite's elements are constructed in 5 porosity grades and 9 media types to meet nearly all compressed air/gas applications.

Finite's instrumentation filter housings are carefully engineered to meet critical application specifications. A complete line of stainless steel housings are available with a variety of pressure ratings and flows for corrosive applications. Combination aluminum head/nylon bowl assemblies are offered for lower operating pressures and temperatures, while disposable plastic in-lines are offered for low flow and OEM applications. Hastelloy® housings are available for especially challenging operating conditions.

If you have a specific need or are unable to find the compressed air/gas filter your application requires, call us! Let one of Finite's application engineers assist you!

Visit us on the web at www.parker.com/finitefilter or call us toll-free 1-800-521-4357.

How to select your Finite® Filter...

The following steps will help you to choose the correct filter for your application. If there are other factors involved or if you have special requirements, call one of Finite's application engineers.

1. Evaluate the requirements of your application. The sketches on page 3 depict popular examples of gas sampling, process filtration, instrument air and breathing air applications.

2. What type of filtration is needed? (See page 4) Coalescing filter medias remove solid and liquid contaminants from gas streams. Particulate filter medias remove solids from gas streams. Adsorber media removes hydrocarbon vapors from gas streams.

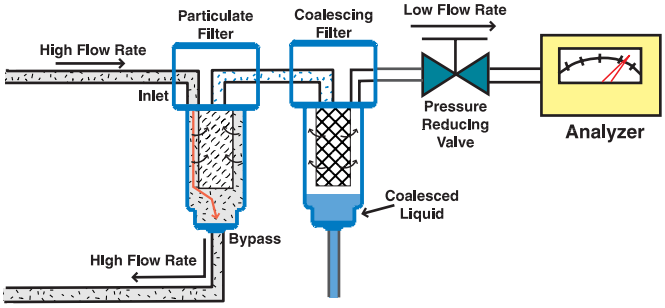
3. Are you searching for a specific micron rating... or efficiency rating? If so, page 5 provides a complete breakdown of Finite's filter media grades and their performance specifications.

4. What are the operating conditions of your application? Key criteria to consider: flow, pressure, materials of construction... stainless steel, nylon, aluminum, Hastelloy®, etc. Pages 6-13 provide detailed descriptions of the various products available.

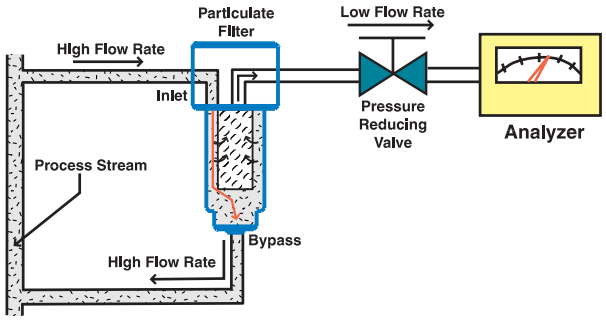
5. Sizing - The flow chart on pages 14-15 lists the flow rates (scfm) at various operating pressures. Filters are available with flows up to 3000 scfm and pressure ratings up to 5000 psig.

Finite® Instrumentation Applications

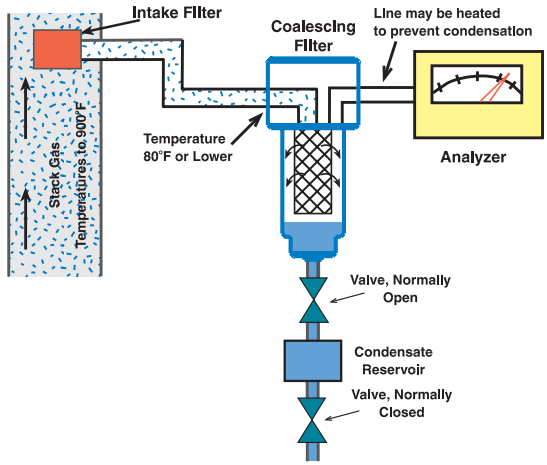
Slipstream Sampling Plus Coalescing Filtration



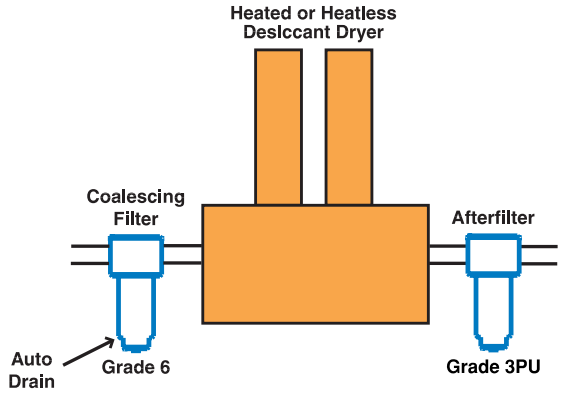
Slipstream or Bypass Sampling



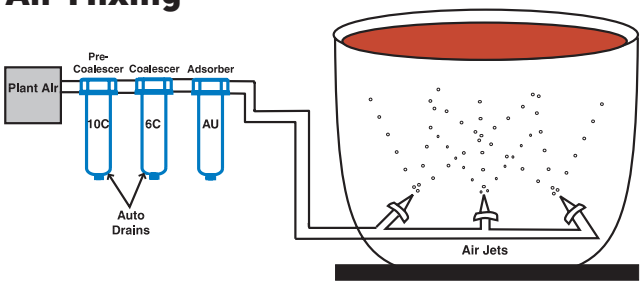
Stack Gas Sampling



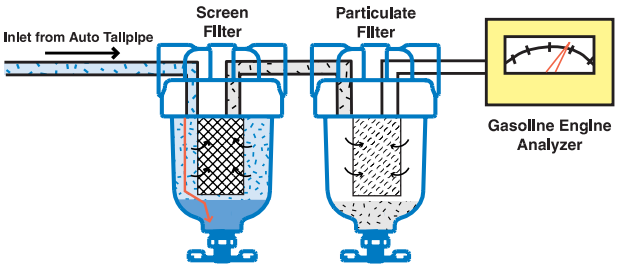
Instrumentation Regenerative Dryer



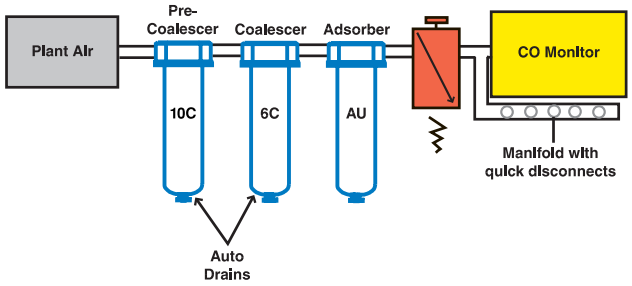
Air Mixing



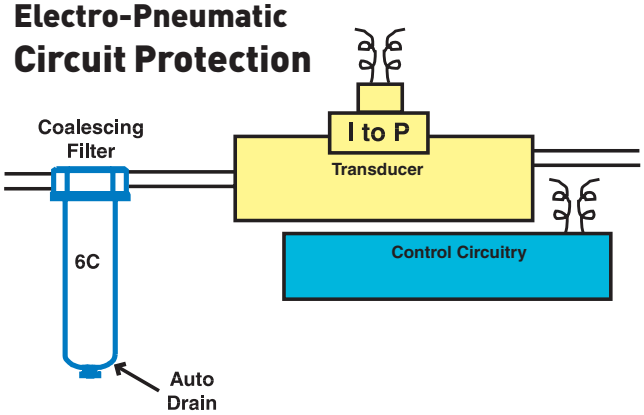
Auto Emission Sampling



Breathing Air



Electro-Pneumatic Circuit Protection



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Finite® media types

Finite's various media types are determined by their materials of construction and are described below. Each element starts from high-quality raw materials, then is hand-crafted and put through our rigorous ISO 9001 certified manufacturing and inspection process. Determine the type of media your application requires. Then determine the grade you need on the next page.

Coalescing elements:

Coalescing elements are especially designed for the removal of liquid contaminants from gaseous flows. These media types flow from the inside of the element to the outside. Coalesced liquid, water and oil, collects in the bowl where it is drained, while clean air or gas exits the housing through the outlet port. Particulate contaminants are captured and held in the media.

type C

Coalescing element composed of an epoxy saturated, borosilicate glass micro-fiber tube in intimate interlocking contact with rigid seamless retainer. Surrounded by a coarse fiber drain layer, retained by a synthetic fabric safety layer. Some models include molded polyurethane end seals (CU).

(For applications up to 175°F)

type H

Coalescing element similar to type "C," however no rigid retainer is used. Typically for lower pressure or higher temperature applications.

(For applications up to 350°F)

type Q

Coalescing element with the same configuration as "C" tube, but with "3P" type pleated cellulose prefilter built-in. Includes molded polyurethane end seals (QU).

(For applications up to 175°F)

type 7CVP

Coalescing element made of pleated glass media. Metal retained for added strength. Includes metal end caps and fluorocarbon gasket for proper sealing. Only available in grade 7.

(For applications up to 175°F)

Particulate and adsorption elements:

Particulate filters such as G, F, T and 3P flow from the outside of the element to the inside. Particles collect in the element, while the clean air exits through the outlet port. Type A, an adsorption element, also flows from the outside of the element to the inside. Hydrocarbon vapors collect in the element, while clean air exits the housing through the outlet port.

type G

Particulate removal element constructed of the same fiber matrix as type "C," but with no rigid retainer or drain layer.

(For applications up to 350°F)

type F

Particulate removal element like "G" tube, except fluorocarbon saturant replaces epoxy.

(For applications up to 275°F)

type T

Particulate removal element like "G" tube, except high temperature fluorocarbon saturant replaces epoxy.

(For applications up to 450°F)

type 3P

Pleated cellulose particulate removal element. Includes molded polyurethane end seals (3PU).

(For applications up to 175°F)

type A

Hydrocarbon vapor removal element. Ultrafine grained, highly concentrated, activated carbon sheet media. Includes molded polyurethane end seals (AU).

(For applications up to 175°F)

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Finite® media grades and specifications

Finite® media grades determine the filtration efficiency. Capture efficiencies are available up to 99.999%. Micron ratings range from .01 to 3 micron. The chart on the right notes both the wet and dry pressure drops.

Finite® media specifications

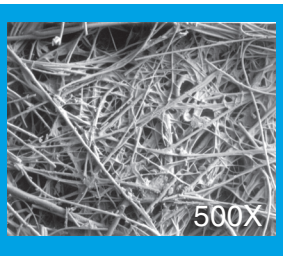
Grade Designation	Coalescing Efficiency .3 to .6 Micron Particles	Coalescing Filters - C, H, Q, 7CVP Maximum Oil Carryover[1] PPM w/w	Particulate Filters - G, F, T, 3P Micron Rating	Pressure Drop (PSID) @ Rated Flow[2]	
				Media Dry	Media Wet With 10-20 wt. oil
2	99.999%	.001	.01	1.5	4-6
4	99.995%	.003	.01	1.25	3-4
6	99.97%	.008	.01	1.0	2-3
7CVP	99.5%	.09	.5	.25	.5-.7
8	98.5%	.2	.5	.5	1-1.5
10	95%	.85	1.0	.5	.5
3P	N/A	N/A	3.0	.25	N/A
A	99%+	N/A	N/A	1.0	N/A

[1]Tested per ADF-400 at 40 ppm inlet.
[2]Add dry + wet for total pressure drop.

grade 2

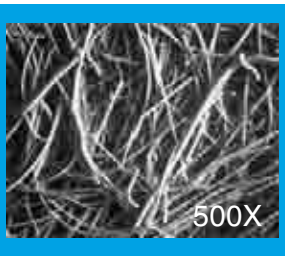
Grade 2 filter elements are used for extremely fine particulate and “last trace” aerosol coalescing filtration; for lighter molecular weight gases and aerosols at elevated pressures.

grade 4



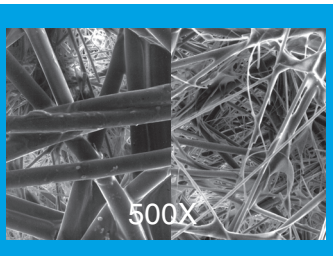
Grade 4 filter elements are very high efficiency coalescers; for elevated pressures or lighter weight gases. Recommended when system pressure exceeds 500 PSIG.

grade 6



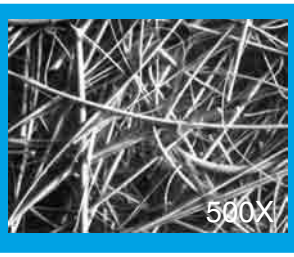
Grade 6 filter elements are used when “total removal of liquid aerosols and suspended fines” is required. **Because of its overall performance characteristics, this grade is most often recommended.**

grade 7CVP



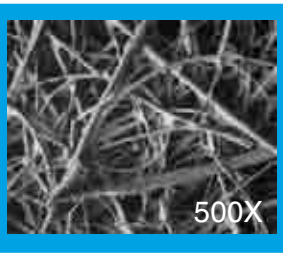
Grade 7CVP filter elements are made with two layers. The inner layer (left) effectively traps dirt particles, protecting and extending the life of the outer layer. The coalescing outer layer (right) consists of a dense matrix of glass fibers, providing highly efficient aerosol removal.

grade 8



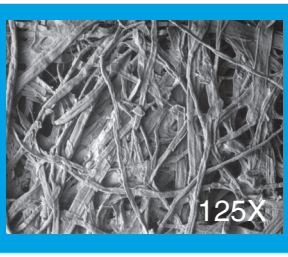
Grade 8 filter elements provide high efficiency filtration in combination with high flow rate and long element life.

grade 10



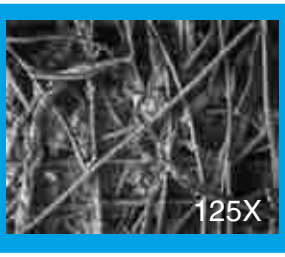
Grade 10 filters are used as prefilters for grade 6 to remove gross amounts of aerosols or tenacious aerosols which are difficult to drain. This grade is often used as a ‘coarse’ coalescer.

grade 3P



Three micron pleated cellulose filters are used for particulate interception where very high dirt holding capacity and a relatively fine pore structure are required.

grade A



A (Adsorption) filters are used to remove hydrocarbon vapor, most typically in preparation for breathing air. (Must be preceded by grade 6C coalescer.)

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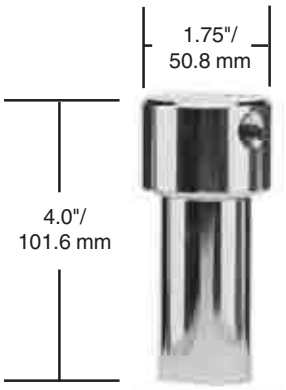
Bypass or High Pressure Filters



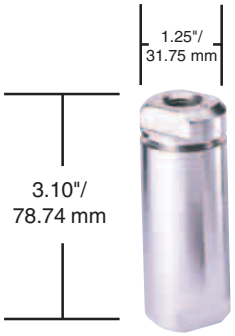
Application: Finite's high pressure filters are available with housings made of 316 Stainless Steel (S5R,S1R), Aluminum (A5R, A1R) or Hastelloy® (S5RH, S1RH). This series is used for gas bypass sampling, high pressure compressed natural gas filtration, and applications with elevated pressures and corrosion resistance requirements. High efficiency particulate and coalescing elements are available with these units. Includes drain port with plug. Connection size of drain port matches inlet and outlet connection size.

How to Order:

☐	☐	R	☐	—	☐	☐	04-023
Materials	Port Size		Modifier		Media Grade	Media Type	Element Size
S = 316 Stainless Steel **A** = Aluminum	**5** = 1/8" NPT **1**= 1/4" NPT		Leave Blank for 316 Stainless Steel and Aluminum **H** = Hastelloy®		**2** **4** **6** **8** **10**	**G** **T** **F** **H** **C**	

For Example: S1R-6C04-023 for complete assembly, including element. S1R x 1 for an empty housing.

S1IL Stainless Steel Particulate Filters



Application: The S1IL filter is typically applied for the particulate filtration of bottled gas or as a last chance filter where there is limited space availability. It does not have a drain port and should only be used when little or no liquid contaminant is expected.

How to Order:

S	1	IL	—	☐	☐	04-013
				Media Grade	Media Type	Element Size
				2 **4** **6** **8** **10**	**G** **T** **F**	

For Example: S1IL-8T04-013 for complete assembly, including element. S1IL x 1 for an empty housing.

Specifications:

Model Number	Port Size (NPT)	Max. Pressure	Max. Temp.	Materials of construction Head	Internals	Bowl	Seals	Shipping Weight
S5R,S1R	1/8",1/4"	5000 PSIG/ 345 bar	450°F (T media) 350°F(G, C) 275°F(F)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluorocarbon	1.16 lbs./.53 kgs.
A5R,A1R	1/8",1/4"	1000 PSIG/ 68 bar	225°F (All media types)	Aluminum	316 Stainless Steel	Aluminum	Fluorocarbon	.75 lbs./.34 kgs.
S5RH,S1RH	1/8",1/4"	5000 PSIG/ 345 bar	400°F (T media) 350°F(G, C) 275°F(F)	Hastelloy®	316 Stainless Steel	Hastelloy®	Fluorocarbon	1.16 lbs./.53 kgs.
S1IL	1/4"	5000 PSIG/ 345 bar	450°F (T media) 350°F(G) 275°F(F)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluorocarbon	.75 lbs./.34 kgs.

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Filtration and Separation Division
Oxford, MI

S-Series Process Gas Filters

Application: Finite's S-Series filters provide high efficiency particulate and liquid aerosol coalescing filtration for critical gas process applications, instrument quality air, and microcircuit applications under the most corrosive of conditions. These stainless steel filter housings are ideal for dairy and food processing plants. These filters are also used for the protection of gas analyzers and when the highest quality materials of construction are desired. Includes 1/8" NPT drain port with plug.

How to Order:

S	☐	☐	—	☐	☐	10-025
	Port Size	Bowl Length		Media Grade	Media Type	Element Size
	1 = 1/4" NPT **2** = 1/2" NPT	**M** = Short **A** = Medium **Q** = Long		blank for 3PU, AU **2** **4** **6** **8** **10**	**G** **T** **F** **H** **C** **CU** **QU** **3PU** **AU**	

For Example: S1M-2T10-025 for complete assembly, including element. S1M x 1 for an empty housing.

Stainless Steel Filters With Glass Bowl

Application: The S1P and S2P filter units are used for gas analyzer protection and corrosive applications where element visibility is required. Coalescing, particulate and adsorptive filter elements available. Includes 1/8" NPT drain port with plug.

How to Order:

S	☐	P	—	☐	☐	10-025
	Port Size			Media Grade	Media Type	Element Size
	1 = 1/4" NPT **2** = 1/2" NPT			blank for 3PU, AU **2** **4** **6** **8** **10**	**G** **T** **F** **H** **C** **CU** **QU** **3PU** **AU**	

For Example: S1P-6F10-025 for complete assembly, including element. S1P x 1 for an empty housing.

Specifications:

Model Number	Port Size (NPT)	Max. Pressure	Max. Temp.	Materials of construction Head	Internals	Bowl	Seals	Shipping Weight
S1M,S2M	1/4",1/2"	300 PSIG/ 21 bar	450°F(T Media) 350°F(G, H) 275°F(F) 175°F(C,CU,QU,3PU,AU)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluorocarbon	3.75 lbs./1.70 kgs.
S1A,S2A	1/4",1/2"	300 PSIG/ 21 bar	450°F(T Media) 350°F(G, H) 275°F(F) 175°F(C,CU,QU,3PU,AU)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluorocarbon	4 lbs./1.81 kgs.
S1Q,S2Q	1/4",1/2"	300 PSIG/ 21 bar	450°F(T Media) 350°F(G, H) 275°F(F) 175°F(C,CU,QU,3PU,AU)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluorocarbon	4.9 lbs./2.22 kgs.
S1P,S2P	1/4",1/2"	150 PSIG/ 10 bar	175°F(All media types)	316 Stainless Steel	316 Stainless Steel	Heat Resistant Borosilicate Glass	Fluorocarbon	2.25 lbs./1.02 kgs.

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Small Internal Volume Filters With Glass Bowl

Application: These filters are used for gas analyzer protection and corrosive applications where element visibility is required. These housings have smaller internal volumes which allow for quicker evacuation and faster sampling times. Includes 1/4" NPT drain port with plug.

How to Order:

S	☐	P	☐ —	☐	☐	☐
	Port Size **1** = 1/4" NPT **2** = 1/2" NPT		Bowl Length **S** = Short **L** = Long	Media Grade **2** **4** **6** **8** **10**	Media Type **G** **T** **F** **H**	Element Size **10-025** = short bowl **10-070** = long bowl

For Example: S1PL-10T10-070 for complete assembly, including element.
S1PL x 1 for an empty housing.

Small Internal Volume Filters With Stainless Bowl

Application: These filters have similar applications as filter above, however this version has a stainless steel bowl which allows for higher pressure and temperature applications. Includes 1/4" NPT drain port with plug.

How to Order:

S	☐	S	☐ —	☐	☐	☐
	Port Size **1** = 1/4" NPT **2** = 1/2" NPT		Bowl Length **S** = Short **L** = Long	Media Grade **2** **4** **6** **8** **10**	Media Type **G** **T** **F** **H**	Element Size **10-025** = short bowl **10-070** = long bowl

For Example: S2SS-10G10-025 for complete assembly, including element.
S2SS x 1 for an empty housing.

Specifications:

Model Number	Port Size (NPT)	Max. Pressure	Max. Temp.	Materials of construction Head	Internals	Bowl	Seals	Shipping Weight
S1PS,S2PS	1/4",1/2"	100 PSIG/ 7 bar	160°F (All media types)	316 Stainless Steel	316 Stainless Steel	Heat Resistant Borosilicate Glass	Fluorocarbon	2 lbs./.91 kgs.
S1PL,S2PL	1/4",1/2"	100 PSIG/ 7 bar	160°F (All media types)	316 Stainless Steel	316 Stainless Steel	Heat Resistant Borosilicate Glass	Fluorocarbon	4 lbs./1.81 kgs.
S1SS,S2SS	1/4",1/2"	425 PSIG/ 29 bar	400°F (T media) 350°F (G,H) 275°F (F)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluorocarbon	3 lbs./1.4 kgs.
S1SL,S2SL	1/4",1/2"	250 PSIG/ 17 bar	400°F (T media) 350°F (G,H) 275°F (F)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluorocarbon	5 lbs./2.3 kgs.

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S3C/S4C Stainless Steel Filters

Application: Finite's S3C and S4C units are economical stainless steel filter assemblies with applications in food processing, pharmaceutical, and chemical manufacturing. Coalescing, particulate and adsorptive filters are available. Includes 1/4" NPT drain port with plug.

How to Order:

S	☐	C	—	☐	☐	13-087
	Port Size **3** = 3/4" NPT **4** = 1" NPT			Media Grade blank for 3PU, AU **2** **4** **6** **8** **10**	Media Type **CU** **3PU** **AU**	Element Size

For Example: S3C-6CU13-087 for complete assembly, including element.
S3C x 1 for an empty housing.

High Flow Stainless Steel Filter

Application: Finite's high-flow filter is the right solution for most critical or corrosive compressed air/gas applications. Its flow rate is 750 SCFM at 100 PSIG. However, its 500 PSIG design pressure makes this an ideal choice for higher pressure applications. Bulk liquid separating, coalescing, particulate and adsorptive filters are available. Includes 1/4" NPT drain port with plug.

How to Order:

S	N	8	S	x	1

For Example: SN8S x 1

Elements sold separately: *CU, 3PU, AU, 7CVP and 100WS (Bulk Liquid Separator)
Element size is 24-187.
* insert grade: 2, 4, 6, 8, 10

For Example: 6CU24-187 x 1

Specifications:

Model Number	Port Size (NPT)	Max. Pressure	Max. Temp.	Materials of construction Head	Internals	Bowl	Shipping Seals	Weight
S3C,S4C	3/4",1"	150 PSIG/ 10 bar	175°F (All media types)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluorocarbon	5.2 lbs./2.4 kgs.
SN8S	2"	500 PSIG/ 34 bar	175°F (All media types)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluorocarbon	32 lbs./14.4 kgs.

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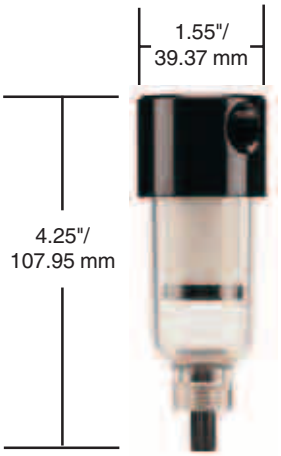
Aluminum Filters with Polycarbonate Bowl



Application: The Q1S, Q5S series filters are an excellent choice for instrumentation and point-of-use general air system filtration. They also provide coalescing and adsorption filtration for robotic and OEM machine manufacturers. Includes manual twist drain.

How to Order:

☐	Q	☐	S	—	☐	☐	06-013
Drain Option		Port Size			Media Grade	Media Type	Element Size

Drain Option
blank for manual twist drain
A = Auto Drain
F = 1/8" ID Hose Barb
V = Needle Valve

Port Size
5 = 1/8" NPT
1 = 1/4" NPT

Media Grade
blank for AM
2
4
6
8
10

Media Type
HM
AM

Element Size

For Example: Q1S-AM06-013 for complete assembly, including element.
Q1S x 1 for an empty housing.

Aluminum Filters with Zinc Bowl

Application: These aluminum filters are an excellent choice for instrumentation and point-of-use general air system filtration. The zinc bowl is preferred in higher temperature and pressure applications. They also provide coalescing and adsorption filtration for robotic and OEM machine manufacturers. Includes manual twist drain.

How to Order:

☐	H	☐	S	—	☐	☐	06-013
Drain Option		Port Size			Media Grade	Media Type	Element Size

Drain Option
blank for manual twist drain
A = Auto Drain
F = 1/8" ID Hose Barb
V = Needle Valve

Port Size
5 = 1/8" NPT
1 = 1/4" NPT

Media Grade
blank for AM
2
4
6
8
10

Media Type
HM
AM

Element Size

For Example: H5S-6HM06-013 for complete assembly, including element.
H5S x 1 for an empty housing.

Specifications:

Model Number	Port Size (NPT)	Max. Pressure	Max. Temp.	Materials of construction Head	Internals	Bowl	Seals	Shipping Weight
Q5S,Q1S	1/8",1/4"	150 PSIG/ 10 bar	125°F (All media types)	Aluminum	N/A	Poly-carbonate	Buna N	.2 lbs./.10 kgs.
H5S,H1S	1/8",1/4"	250 PSIG/ 17 bar	175°F (All media types)	Aluminum	N/A	Zinc	Buna N	.3 lbs./.14 kgs.

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Compact Nylon Filter With Polyurethane Bowl

Application: KN1S and KN5S filters are an economical way to provide high-efficiency filtration for protection of emission analyzers, air-logic systems and low-flow point-of-use pneumatic components. Includes manual, tee-valve drain. (1/8" NPT port)

How to Order:

KN ☐ S — ☐ ☐ 06-016

Port Size
5 = 1/8" NPT
1 = 1/4" NPT

Media Grade
blank for 75P
2
4
6
8
10

Media Type
G
T
F
H
C
75P

Element Size

Note: The 75P Media Type is a 75 micron plastic filter element.

For Example: KN1S-6C06-016 for complete assembly, including element.
KN1S x 1 for an empty housing.

Nylon Filter With Polyurethane Bowl

Application: The P1N offers economical high efficiency filtration for point-of-use, instrument systems or OEM circuit protection. The P1N is also used when sump and element visibility are required. Includes manual twist drain.

How to Order:

P 1 N — ☐ ☐ 10-025

Media Grade
Leave blank for 3PU and AU
2
4
6
8
10

Media Type
G
T
F
H
C
CU
QU
3PU
AU

Element Size

For Example: P1N-4QU10-025 for complete assembly, including element.
P1N x 1 for an empty housing.

Specifications:

Model Number	Port Size (NPT)	Max. Pressure	Max. Temp.	Materials of construction Head	Internals	Bowl	Seals	Shipping Weight
KN5S,KN1S	1/8",1/4"	150 PSIG/ 10 bar	125°F (All media types)	Glass Filled Nylon	Acetal Plastic, Steel	Clear Polyurethane	Buna N	.3 lbs./.14 kgs.
P1N	1/4"	100 PSIG/ 7 bar	125°F (All media types)	Acetal Plastic	Acetal Plastic, Stainless Steel	Clear Polyurethane	Buna N	.49 lbs./.22 kgs.

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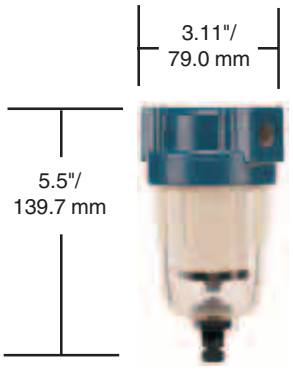
Oxford, MI

Aluminum Filters With Polyurethane Bowl



Application: The QN series is an excellent point-of-use filter where element visibility is required. Coalescing, particulate and adsorption elements available. Includes plastic manual twist drain.

How to Order:

QN ☐ N — ☐ ☐ ☐

Port Size
1 = 1/4" NPT
15 = 3/8" NPT
2 = 1/2" NPT

Media Grade
blank for 3PU, AU
2
4
6
8
10

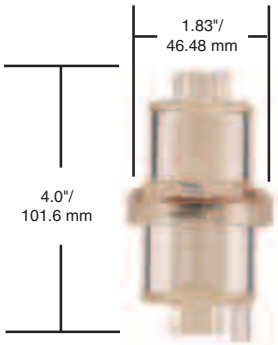
Media Type
G
T
F
H
C
CU
QU
3PU
AU

Accessories
N = None
D = Differential Pressure Indicator
G = Differential Pressure Gauge

For Example: QN15N-10QUN for complete assembly, including element. QN15NN x 1 for an empty housing.

Note: Although the element size is not included in the part number construction for this filter, the size, 10-025, is needed to order replacement elements. For example, 6C10-025 x 8.

Low Flow, Dual-Stage In Line Filters



Application: The ILN, IKN in-lines are used for low flow circuit protection on sensing instruments, analyzers, air-logic, and other control devices. High-efficiency coalescing and particulate elements are available. Drain types available include manual push, constant bleed or no drain.
The design: This twist-lock plastic housing is designed for 50 PSIG maximum operating pressure. The two-stage filter design allows for high efficiency element replacement and the reuse of the 74 micron prefilter (74P05-011 x 10).

How to Order:

I ☐ N ☐ — ☐ ☐ 05-011

Port Size
L = 1/8" NPT
K = 1/8" NPT with brass inserts

Type of Drain
blank for no drain; closed
D = Open; constant bleed drain
V = Valved; manual drain

Media Grade
2
4
6
8
10

Media Type
G
T
F
H

05-011 Element Size

For Example: IKND-4G05-011 for complete assembly, including element.
IKND x 1 for an empty housing.

Specifications:

Model Number	Port Size (NPT)	Max. Pressure	Max. Temp.	Materials of construction Head	Internals	Bowl	Seals	Shipping Weight
QN1N,QN15N,QN2N	1/4",3/8",1/2"	125 PSIG/ 9 bar	125°F (All Media types)	Aluminum	Stainless Steel, Acetal Plastic	Clear Polyurethane	Buna N	.86 lbs./.39 kgs.
ILN/IKN	1/8"	50 PSIG/ 3 bar	125°F (All media types)	ILN: Nylon IKN: Clear polyurethane	Neoprene	ILN: Nylon IKN: Clear polyurethane	Silicone Rubber	.1 lbs./.05 kgs.
ILND/IKND	1/8"	50 PSIG/ 3 bar	125°F (All media types)	ILND: Nylon IKND: Clear polyurethane	Neoprene	ILND: Nylon IKND: Clear polyurethane	Silicone Rubber	.1 lbs./.05 kgs.
ILNV/IKNV	1/8"	50 PSIG/ 3 bar	125°F (All media types)	ILNV: Nylon IKNV: Clear polyurethane	Neoprene	ILNV: Nylon IKNV: Clear polyurethane	Silicone Rubber	.1 lbs./.05 kgs.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

High Efficiency Disposable In-Line Filters

Application: These high-efficiency, disposable in-line filters are great for analyzer and sensor protection, gas sampling, micro-system operation and robot and animation air preparation. This clear, nylon housing allows visible inspection of particulate collected. The full length internal tube support gives higher strength, even with system upsets.

Type ID In-line filters

The Type ID enclosure in conjunction with a 'G', 'T' , 'F' or '44P' series element is designed to provide the most reliable, long lived, instrument air source, sensor protection, sample cleansing and purification available today. The center core provides stable backup support, reduces internal (tare) volume, centers the tube in the housing and distributes the contaminant load along the tube's entire length. Elements in the housing are sealed by a positive serrated arrangement with built-in redundancy, ultrasonically welded.

Type MD In-line filters

The Type MD housing in conjunction with a 'G', 'T', 'F' or '5P' element is designed to provide a high reliability instrument air source or sensor protection where some levels of condensed moisture or oil are present. A stand-pipe is molded into the lower housing to allow for a dry exit chamber as liquids collect at the tube base. Up to 3cc of liquid can be stored in this manner. The same tube size is employed as in the Type ID. Typical applications involve high condensate conditions such as vacuum or higher temperature systems.

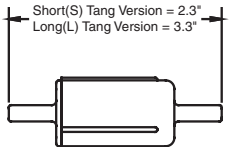
Type SD In-line filters

For critical point-of-use, vapor free instrument or medical systems the Type SD provides maximum activated surface exposure to the process gas while pre-filtering with grade 10 pads and preventing media migration with exit safety filters.

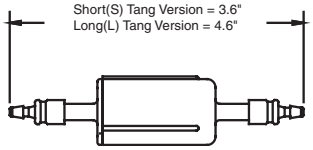
Adsorbing Media Available

Type A: Activated carbon for general use oil vapor removal.
Type J: Silica gel moisture trap, dries gas, turns white when expended.
Type M: 13X molecular sieve for selective polishing and 'last trace' light hydrocarbon vapor removal.
Type O: Activated dye turns red when exposed to oil in system.

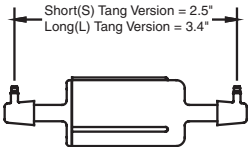
Specifications:



Standard 1/4" O.D. Tangs



4S = 1/8" Straight Barbs



4A = 1/8" Right Angle Barbs

Specifications:

Model Number	Max. Pressure	Max. Temp.
ID/SD/MD	100 PSIG/7 bar	125°F (All media types)

How to Order:

☐ ☐ — ☐ ☐ ☐

Type	Tang Length	Media Grade	Media Type	End Connections
ID		**Leave blank for SD,5P,44P**	**Available for ID only**	blank = Standard Tangs (1/4" outer diameter)
MD	**N** = Long	**2**	**44P** = 44 micron SS mesh	4S = 1/8" Straight Barbs
SD	**S** = Short	**4**	**Available for MD only**	4A = 1/8" Right Angle Barbs
		6	**5P** = 5 micron SS mesh	
		8	**Available for ID/MD**	
		10	**G** = Epoxy	
			T = PTFE	
			F = Fluorocarbon	
			Available for SD only	
			A = Activated Carbon	
			J = Silica Gel	
			M = Molecular Sieve	
			O = Oil Activated Dye	

For Example: IDN-6G for complete assembly, including element.

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Oxford, MI

Flow Data (scfm)

Replacement Element Part Numbers

Note: Flow rates shown are for largest port size in each housing series.

Filter Housing Model	Media Grade	20 PSIG	40 PSIG	60 PSIG	80 PSIG	100 PSIG	150 PSIG	250 PSIG	500 PSIG	1500 PSIG	5000 PSIG	Replacement Elements Available *insert grade. Quanity of elements per box follows the 'x'		
	4	1.9	3.1	4.2	5.3	6.4	9	15	29	85	280	*C04-023 x 10	*F04-023 x 10	
S1R/S1RH	6	2.5	4.0	5.5	6.9	8.4	12	19	38	111	367	*H04-023 x 10	*T04-023 x 10	
	10	3.0	4.8	6.5	8.3	10	14	23	45	132	437	*G04-023 x 10		
	4	1.9	3.1	4.2	5.3	6.4	9	15	29	-	-	*C04-023 x 10	*F04-023 x 10	
A1R	6	2.5	4.0	5.5	6.9	8.4	12	19	38	-	-	*H04-023 x 10	*T04-023 x 10	
	10	3.0	4.8	6.5	8.3	10	14	23	45	-	-	*G04-023 x 10		
	4	1.1	1.7	2.3	3.0	3.6	5	8	16	48	157	*G04-013 x 10		
S1IL	6	1.4	2.2	3.1	3.9	4.7	7	11	21	62	205	*T04-013 x 10		
	10	1.7	2.7	3.7	4.7	5.7	8	13	26	75	249	*F04-013 x 10		
	4	4.8	7.6	10.4	13.2	16	23	37	-	-	-	*C10-025 x 8	*QU10-025 x 8	*T10-025 x 10
S2M	6	6.7	10.5	14.3	18.2	22	32	51	-	-	-	*CU10-025 x 8	*G10-025 x 10	*3PU10-025 x 8
	10	11.2	17.6	24.1	30.5	37	53	85	-	-	-	*H10-025 x 8	*F10-025 x 10	*AU10-025 x 8
	4	9.7	15.3	20.8	26.4	32	46	74	-	-	-	*C10-050 x 4	*QU10-050 x 4	*T10-050 x 10
S2A	6	13.0	20.5	28.0	35.5	43	62	99	-	-	-	*CU10-050 x 4	*G10-050 x 10	*3PU10-050 x 4
	10	22.4	35.3	48.2	61.1	74	106	171	-	-	-	*H10-050 x 4	*F10-050 x 10	*AU10-050 x 4
	4	13.6	21.5	29.3	37.2	45	65	104	-	-	-	*C10-070 x 4	*QU10-070 x 4	*T10-070 x 10
S2Q	6	18.2	28.6	39.1	49.5	60	86	138	-	-	-	*CU10-070 x 4	*G10-070 x 10	*3PU10-070 x 4
	10	31.5	49.6	67.7	85.9	104	149	240	-	-	-	*H10-070 x 4	*F10-070 x 10	*AU10-070 x 4
	4	4.8	7.6	10.4	13.2	16	23	-	-	-	-	*C10-025 x 8	*QU10-025 x 8	*T10-025 x 10
S2P	6	6.7	10.5	14.3	18.2	22	32	-	-	-	-	*CU10-025 x 8	*G10-025 x 10	*3PU10-025 x 8
	10	11.2	17.6	24.1	30.5	37	53	-	-	-	-	*H10-025 x 8	*F10-025 x 10	*AU10-025 x 8
	4	4.8	7.6	10.4	13.2	16	-	-	-	-	-	*H10-025 x 8	*F10-025 x 10	
S2PS	6	6.7	10.5	14.3	18.2	22	-	-	-	-	-	*G10-025 x 10	*T10-025 x 10	
	10	11.2	17.6	24.1	30.5	37	-	-	-	-	-			
	4	13.6	21.5	29.3	37.2	45	-	-	-	-	-	*H10-070 x 4	*F10-070 x 10	
S2PL	6	18.2	28.6	39.1	49.5	60	-	-	-	-	-	*G10-070 x 10	*T10-070 x 10	
	10	31.5	49.6	67.7	85.9	104	-	-	-	-	-			
	4	4.8	7.6	10.4	13.2	16	23	37	-	-	-	*H10-025 x 8	*F10-025 x 10	
S2SS	6	6.7	10.5	14.3	18.2	22	32	51	-	-	-	*G10-025 x 10	*T10-025 x 10	
	10	11.2	17.6	24.1	30.5	37	53	85	-	-	-			
	4	13.6	21.5	29.3	37.2	45	65	104	-	-	-	*H10-070 x 4	*F10-070 x 10	
S2SL	6	18.2	28.6	39.1	49.5	60	86	138	-	-	-	*G10-070 x 10	*T10-070 x 10	
	10	31.5	49.6	67.7	85.9	104	149	240	-	-	-			

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Flow Data (scfm)

Replacement Element Part Numbers

Note: Flow rates shown are for largest port size in each housing series.

Filter Housing Model	Media Grade	20 PSIG	40 PSIG	60 PSIG	80 PSIG	100 PSIG	150 PSIG	250 PSIG	500 PSIG	1500 PSIG	5000 PSIG	Replacement Elements Available *insert grade. Quanity of elements per box follows the 'x'
	4	19.7	31.0	42.3	53.7	65	93	-	-	-	-	*CU13 -087 x 2
S3C	6	27.2	42.9	58.6	74.3	90	129	-	-	-	-	3PU13 -087 x 2
	10	45.4	71.5	97.7	123.8	150	215	-	-	-	-	AU13 -087 x 2
	4	24.2	38.2	52.1	66.1	80	115	-	-	-	-	*CU13 -087 x 2
S4C	6	33.3	52.5	71.6	90.8	110	158	-	-	-	-	3PU13 -087 x 2
	10	51.4	81.1	110.7	140.4	170	244	-	-	-	-	AU13 -087 x 2
	4	102.9	162.1	221.4	280.7	340	488	785	1526	-	-	*CU24-187 x 1 AU24-187 x 1
SN8S	6	136.1	214.6	293.1	371.5	450	646	1038	2019	-	-	7CVP24-187 x 1 100WS24-187 x 1
	10	226.9	357.7	488.4	619.2	750	1077	1731	3366	-	-	3PU24-187 x 1
	4	1.7	2.7	3.6	4.6	5.6	8	-	-	-	-	*HM06-013 x 10
Q1S	6	2.3	3.7	5.0	6.4	7.7	11	-	-	-	-	AM06-013 x 10
	10	3.9	6.2	8.5	10.7	13	19	-	-	-	-	
	4	1.7	2.7	3.6	4.6	5.6	8	13	-	-	-	*HM06-013 x 10
H1S	6	2.3	3.7	5.0	6.4	7.7	11	18	-	-	-	AM06-013 x 10
	10	3.9	6.2	8.5	10.7	13	19	30	-	-	-	
	4	2.4	3.8	5.2	6.6	8	11	-	-	-	-	*C06-016 x 10 *F06-016 x 10
KN1S	6	3.0	4.8	6.5	8.3	10	14	-	-	-	-	*H06-016 x 10 *T06-016 x 10
	10	5.1	8.1	11.1	14.0	17	24	-	-	-	-	*G06-016 x 10 75P06-016 x 10
	4	3.3	5.2	7.2	9.1	11	-	-	-	-	-	*C10-025 x 8 *QU10-025 x 8 *T10-025 x 10
P1N, QN1N	6	4.5	7.2	9.8	12.4	15	-	-	-	-	-	*CU10-025 x 8 *G10-025 x 10 3PU10-025 x 8
	10	6.1	9.5	13.0	16.5	20	-	-	-	-	-	*H10-025 x 8 *F10-025 x 10 AU10-025 x 8
	4	6.4	10.0	13.7	17.3	21	-	-	-	-	-	*C10-025 x 8 *QU10-025 x 8 *T10-025 x 10
QN15N, QN2N	6	8.5	13.4	18.2	23.1	28	-	-	-	-	-	*CU10-025 x 8 *G10-025 x 10 3PU10-025 x 8
	10	16.3	25.8	35.2	44.6	54	-	-	-	-	-	*H10-025 x 8 *F10-025 x 10 AU10-025 x 8
ILNV, IKNV	4	1.3	2.0	-	-	-	-	-	-	-	-	*H05-011 x 10 *T05-011 x 10
ILND, IKND	6	1.7	2.7	-	-	-	-	-	-	-	-	*G05-011 x 10 74P05-011 x 10
ILN, IKN	10	2.8	4.5	-	-	-	-	-	-	-	-	*F05-011 x 10
ID, MD	4	0.8	1.3	1.8	2.2	2.7	-	-	-	-	-	Note: These disposable in-line filters are sold in boxes of 10.
	6	1.1	1.7	2.3	2.9	3.5	-	-	-	-	-	
	10	1.6	2.5	3.5	4.4	5.3	-	-	-	-	-	
	A	0.5	0.9	1.2	1.5	1.8	-	-	-	-	-	Note: These disposable in-line filters are sold in boxes of 10.
SD	J	0.5	0.9	1.2	1.5	1.8	-	-	-	-	-	
	M	0.5	0.9	1.2	1.5	1.8	-	-	-	-	-	
	O	1.4	2.2	3.1	3.9	4.7	-	-	-	-	-	

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Notes:

finitefilter@parker.com

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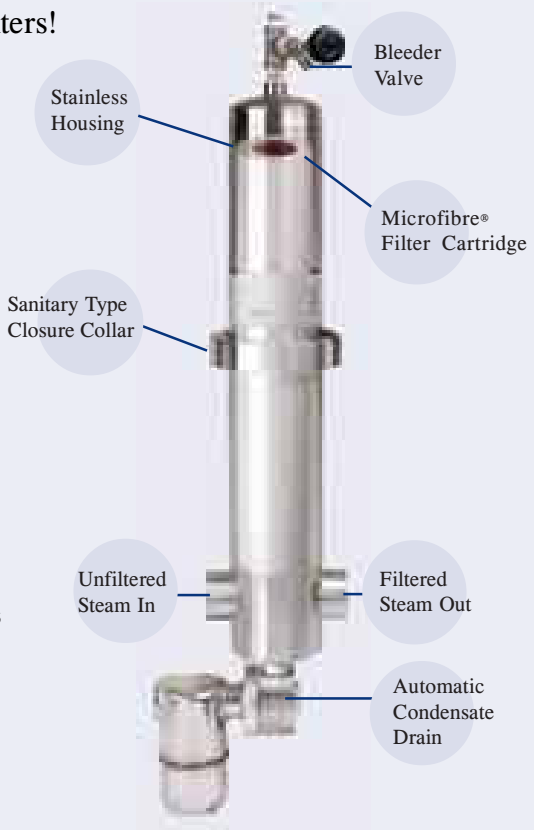
Filtration and Separation Division
Oxford, MI

Finite® Steam Filter

All steam filters are sold with a spanner wrench and a preinstalled element.

Steam plays a very important role in a variety of industries including Food and Beverage, Hospital, and Pharmaceutical. In order to ensure effective and continuous operation of many processes in these industries, it is often critical that high quality steam is used. A Finite Steam Filter can be used to produce high quality steam by removing both particulate and condensate prior to critical processes. Although each industry's steam requirements may vary slightly, the solution is always the same…

Finite® Steam Filters!



features

- 98% efficient at 0.1 micron
- Removes rust and other particle contamination
- Removes excessive condensate from steam
- Disposable filter elements

specifications

- Connection Size: 1" NPT
- Max. Pressure: 125 PSIG
- Max. Temp: 353°F
- Max. Flow Rate: 400 lbs./ hr. at 125 PSIG
- Overall Height: 36 inches
- Weight: 16 pounds

benefits

- Easy to install
- Lower yearly maintenance costs than competitive filters
- No costly downtime associated with the cleaning and backflushing of filter elements - just replace element every 6 weeks

materials of construction

- 304 Stainless Steel
- EPR Seals (2)
- Microfibre®

part numbers

Steam Filter:	SFN4-SE13-145
Replacement Element:	SE13-145 x 8

Note: Steam Filter is sold with one spanner wrench and preinstalled element.
Replacement elements are sold in boxes of eight. Contact factory for other connection configurations.

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Oxford, MI

Use Finite® Steam Filters in…

food industry

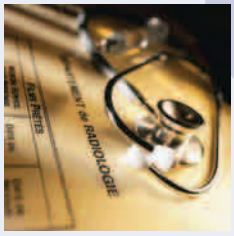
Applications and Benefits

- Food and Beverage manufacturing and packaging - Filter protects specific food products (i.e. potatoes) by eliminating overall contamination, taste differences, odor, and unwanted additives to food
- Meat Packing facilities - Same benefits as above
- Dairies - To sterilize processing equipment and storage tanks
- Direct injection of steam into food - Provides shorter cooking times and more even cooking
- Breweries - Steam is used to provide the heat of pasteurization, production of hot liquor, bottle washing, bottling, canning processes, and Clean in Place (CIP) systems

Accepted Standards

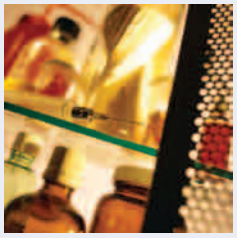
- All materials are FDA approved
- USDA acceptance in federally inspected meat and poultry plants
- Complies with Pasteurized Milk Ordinance
- Complies with 3-A Sanitary Standards Committee's practice for producing culinary quality steam (Number 609-00)
- Finite Steam Filters meet the regulations for Indirect Food Additives used as Basic Components for Repeated Use for Contact Surfaces as specified in 21 CFR Part 177, and Current Good Manufacturing Practices, 21 CFR Part 110

hospitals



Applications and Benefits

- Reduces the number of malfunctioning valves and regulators
- Can be used at point-of-use to purify steam from a centralized system
- Sterilizing instruments
  - -eliminates wet packs and staining of instruments
  - -eliminates unnecessary maintenance and costly downtime on steam sterilizers



Applications and Benefits

- Injection of steam in pharmaceutical manufacturing
- Direct contact sterilization—Clean in Place (CIP) or Sterilize in Place (SIP)
- Clean room humidification
- Block and bleed systems (Steam provides a sterile barrier between a critical biological process and the environment)

pharmaceutical

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Alternative Fuel Filters

Bulletin 1000 - NG -1

Compressed Gas
CNG/Alt. Fuels

Finite®

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

New Solutions from Finite®

Compressed Gas
CNG/Alt. Fuels

Today's alternative fuel — compressed natural gas — has the same problems that plague diesel and gasoline... contamination that collects during handling, water that condenses in tanks and compressors that leak oil into the fuel stream.

The precision components necessary for the efficient operation of an alternative fuel system demand superior filtration.

The solution — the industry's first and most complete line of alternative fuel filters/coalescers. From pipeline to engine — Parker products provide the critical filtration required for most alternative fuel systems.

High efficiency, high pressure filtration is essential for eliminating the primary threats to injectors — condensed moisture and oil carryover from high pressure compressors.

Vehicle Applications

Protecting the fuel injectors and precision components of an alternative fuel system is vital to efficient vehicle operation. Parker is now offering the most complete line of fuel filter/coalescers for on-vehicle applications. These filters ensure removal of damaging aerosol contamination as small as .01 microns with efficiencies ranging from 95-99.995%, depending on the grade of element specified. Units are available in a range of pressure ratings and are constructed of aluminum or stainless steel.

The fuel filter/coalescer elements are manufactured by a unique process of arranging microglass fibers into a cylindrical form. During operation, fuel is forced through the coalescing media from the inside of the cartridge through the tubular wall to the outside, where the large droplets fall to the bottom of the housing. Oily water emulsions accumulate in the sump located in the bottom of the housing until drained, while the dirt particles remain trapped inside of the filter element.

Fuel system engineers and NGV converters agree that a high quality filtration system is an essential alternative fuel engine component. Installed upstream of the high-pressure regulator, the fuel filter/coalescer contributes to maximize uptime, reducing maintenance costs and extending the equipment's life cycle. In addition, some engineers favor the installation of a downstream filter/coalescer to protect the low-pressure regulator and other injection system components.

Low Pressure Fuel Filter Coalescers

Lower pressure coalescers are ideal for operating environments up to 500 psi. All aerosol contaminants in the 0.3 to 0.6 micron range are filtered to an efficiency level that exceeds 95%.

High Pressure Fuel Filter Coalescers

High pressure coalescers constructed to withstand operating pressures up to 3600 psi. These stainless and anodized aluminum filters remove over 95% of aerosols in the 0.3 to 0.6 micron range.

Advanced technology and design innovation have made Parker the preferred OEM supplier for alternative fuel filtration systems.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Vehicle Applications

A recognized leader in alternative fuel filtration technology, Parker assists in the development and validation of quality standards for ANSI and the Natural Gas Vehicle Coalition.

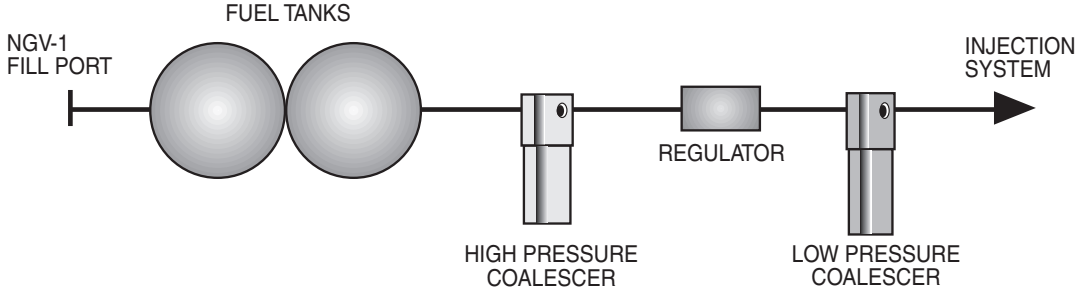
Safety First!

Safety is always a factor that must be taken into consideration when servicing fuel related products. It is imperative that shutoff valves, manual or electronically controlled, be installed upstream and downstream of any high pressure CNG filter. After shutoff, pressure should slowly be released prior to removal of the filter housing or drain plug.

Specifications

Model	FFC-116	FFC-112 FFC-112SAE	FFC-110	FFC-110L	FFC-113	FFC-114
Type	Coalescer	Coalescer	Coalescer	Coalescer	Coalescer	Coalescer
Port	1/4" NPT	1/4" NPT or 9/16" SAE	1/4" NPT	1/4" NPT	1/2" NPT	1/2" NPT
PSI (Max)	5000	3600	500	500	3600	3600
Rated Flow SCFM at 100 PSIG	8.4	15	25	50	50	50
Length	3.85	4.75	7.16	10.4	8.06	7.01
Diameter	1.75	2.25	3.13	3.13	2.97	2.97
Drain Port Size	1/4"	3/8" SAE	1/8"	1/8"	9/16-18 SAE-6	9/16-18 SAE-6
Weight	1.75	1.5	1.5	1.8	5.5	5.25
Element Number	CLS116-10	CLS112-10	CLS110-10	CLS110-10L	CLS113-6	CLS113-6
Sump Capacity (oz.)	0.25	0.5	5.0	7.0	5.0	3.0
Material	316 Stainless Steel	Anodized Aluminum	Powder Painted Chromated Aluminum	Powder Painted Chromated Aluminum	303 Stainless Steel	303 Stainless Steel

Typical Application:



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Oxford, MI

Fuel Dispensing

Compressor skid packages, commonly supplied for both slow-fill and standard refueling operations, often yield large amounts of oil with the gas. Studies throughout industry confirm that some compressors deliver oil aerosols into the gas stream in amounts exceeding 100 PPM to 400 PPM by weight.

To meet these high volume applications, Parker has developed oil removing fuel dispensing coalescers which will handle pressures up to 5000 psi and feature large sump capacities.

Coalescing filters are only part of the CNG delivery system. Oil removal efficiency is affected by gas stream temperature, oil concentration, velocity, flow rate, maintenance and the system plumbing. Careful design and service are essential to achieve satisfactory equipment performance.

J4SF & J4NF

Heavy duty coalescer withstands pressure to 5,000 psi with a sump capacity of six ounces. The J4 models offer maximum pressure rating and capacity. Construction is nickel plated nodular cast iron with epoxy powder painted exterior. Available with 1" NPT or SAE-16 port connections.

J2SD & J2SL

The J2SD and J2SL coalescers offer up to 5,000 psi pressure rating. Construction is nickel plated ductile iron with epoxy powder painted exterior. SAE-8 porting connections (Adaptor bushings provide for 1/2" NPT female).

Alternative Fuel Filtration Systems are just one of the complete line of fuel, air and oil filtration products available from Finite. For more information about other ways you can improve and protect your equipment, talk with your nearby distributor – or call us toll-free.

Parker Hannifin Corporation
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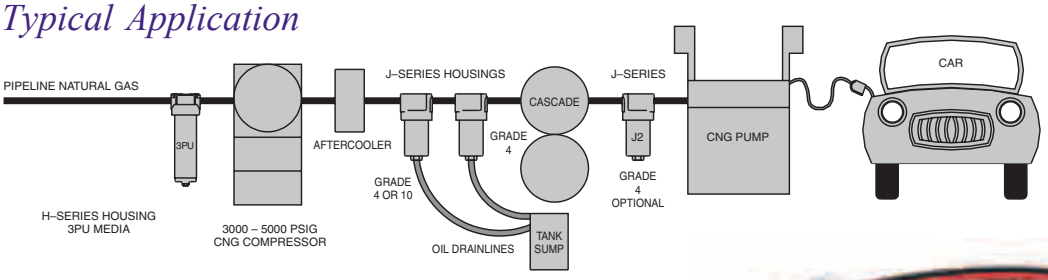
Oxford, MI 48371
Phone: 800-521-4357
Fax: 248-628-1850
www.parker.com

Typical Application



The Complete Package: Only From Parker

No one has a more complete selection of products for alternative fuel vehicles than Parker; components for efficient refueling, and all the products needed for installation.

For more information about connector components call toll-free 1-800-C-PARKER

J-Series

High Pressure (to 5,000 PSIG)
Compressed Gas Filters

Bulletin 1300-200/USA

Finite®

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Finite's High Pressure J-Series Filters

HIGH PRESSURE SYSTEMS NEED FILTRATION PROTECTION

High pressure compressed gas systems pose difficult problems that require special filtration attention. Excessive amounts of liquid aerosols and solid particulate contamination are common. In addition, higher temperature levels are possible and may cause the liquid oils to varnish.

Varnishing contributes to poor component performance and wear that may lead to unscheduled maintenance. Finite's J Series high pressure filters are an extremely effective way to reduce or eliminate those problems.

REMOVING LIQUID AEROSOLS

Finite's Grade 4 media will remove 99.995% of liquid aerosols in the .3 to .6 micron range. For most systems the Grade 4 coalescing media is recommended. But for systems with high liquid concentration (+50 ppm of oil or +25 ppm of water), precoalescing is required.

Precoalescing involves two stage filtration. A Finite J Series filter with grade 10 media is used to remove gross aerosols. Then a second J Series filter with Grade 4 media is placed after the grade 10 filter to clean up the remaining aerosols.

FILTERING SOLID PARTICULATES

Particulate contamination problems are controlled and often eliminated with Finite's 3P pleated cellulose media. The pleated element exposes a larger surface area that significantly increases filter life.

Particulate filter elements like the 3P are often used upstream of coalescing filters. By first removing particulate contamination, such as pipe scale, rust and dirt first, the life of the coalescing filter is greatly extended.

COMPRESSED NATURAL GAS SOLUTIONS

- Robust filter element construction
- Threaded head to bowl design
- Temperatures to 350°F
- Available in SAE and NPT connections
- Pressures to 5000 PSIG

High-efficiency coalescing filters upstream of the CNG dispenser protect sensitive vehicle components from damage occurring when the solid contaminants, water and oil are generated with the gas delivery system.

Typical Applications

Coalescing (Oil Removal)

- Dryer protection
- Breathing air
- Compressed air system protection

Interceptor (Particulate Removal)

- Desiccant dryer afterfilter
- Prefilter for coalescer
- Systems with high particulate concentration
- Particulate protection for non-lubricated systems

Adsorber (Vapor Removal)

- Odor removal
- High purity laboratory gases
- Last trace oil vapors/ hydrocarbon

Specifications

At high pressures, excessive amounts of oil aerosols may be present. Precoalescing with Grade 10 may be necessary before final coalescing.

Grade 4 (not Grade 6 as in other Finite filter series) is used as the standard coalescer media in the J Series. High pressure systems reduce the effectiveness of filter media, requiring the upgrade to Grade 4 as the standard.

Replacement Elements:
Coalescing filters and particulate interceptors should be replaced a minimum of one time per year with a maximum 10 psid pressure drop. Adsorber elements should be replaced every six months, or as necessary. For example, in a breathing air application, adsorbers should be replaced when hydrocarbon vapor is detected as an odor.

Mount these filters in a vertical position.

Do not service these filters under pressure! The system pressure must be reduced to atmospheric levels before changing elements, draining bowls, or performing any other maintenance activity on or near these filters.

Flow direction:

Coalescers (Grade 10 or 4)	Port 1 to Port 2 (in to out)
Interceptors (“3P” Particulate)	Port 2 to Port 1 (out to in)
Adsorbers (“A” Charcoal adsorber)	Port 2 to Port 1 (out to in)

Housing Model	J2SD	J2SL	J4SF	J4NF	J6SH	J6NH
Port Size	SAE-8 (Std) Adaptor Busings Provided for 1/2" NPT Female		SAE-16	1" NPT	SAE-24	1 1/2 " NPT
Pressure (PSIG) Max.	5000		5000		5000	
Temperature (°F), Max	350°		350°		350°	
Sump Capacity (ml)	60ml	220ml	210 ml		637 ml	
Assembly Weight (lbs)	9.2	13.1	22.1		52.5	
Major Materials of Construction (with coalescing element installed)	Ductile iron, fluorocarbon seals, aluminum, fiberglass, carbon steel, epoxy, rayon		Nodular cast iron, carbon steel, fluorocarbon seals, fiberglass, epoxy, rayon, aluminum and engineered plastic		Nodular cast iron, carbon steel, fluorocarbon seals, fiberglass, epoxy, rayon, and aluminum	
Drain Port Size	SAE-6		SAE-6		SAE-6	

Flow Rates (SCFM @ indicated system pressures)

	Media	J2SD & J2SL	J4SF & J4NF	J6SH & J6NH
Flow @100 PSIG	4C, A	30	75	225
	10C, 3P	60	150	450
Flow @1500 PSIG	4C, A	400	1000	3000
	10C, 3P	800	2000	6000
Flow @3000 PSIG	4C, A	800	2000	6000
	10C, 3P	1600	4000	12000
Flow @4500 PSIG	4C, A	1200	3000	9000
	10C, 3P	2400	6000	18000

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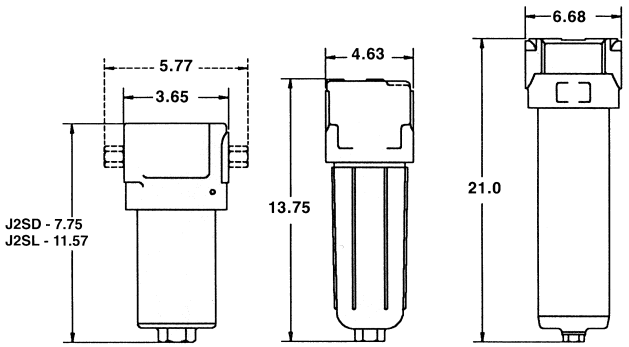
Oxford, MI

Dimensions (In Inches)



How to Order

Use the steps below to build your own part number. The J-Series How to Order is broken into three connection sizes. First choose your connection size, then build your part number.
For any permutation not mentioned below, please consult factory at 1-800-521-4357.

For a 1/2" connection size

J	2	S	D	10C	WC	11-035
Series	Connection	Bowl Thread	Media Bowl	Media Type	Element Construction	Element Size
J	2 = 1/2"	S (SAE)	D (Standard) L (Long)	4C 10C 3P A 100	WC WC WC WC WS	11-035

For a 1" connection size

J	4	N	F	3P	WC	15-070
Series	Connection	Bowl Thread	Media Bowl	Media Type	Element Construction	Element Size
J	4 = 1"	S (SAE) N (NPT)	F (Standard)	4C 10C 3P A 100 10J 10J	WC WC WC WC WS WM WA	15-070

For a 1 1/2" connection size

J	6	S	H	10J	WM	23-130
Series	Connection	Bowl Thread	Media Bowl	Media Type	Element Construction	Element Size
J	6 = 1 1/2"	S (SAE) N (NPT)	H (Standard)	4C 10C 3P A 100 10J 10J	WC WC WC WC WS WM WA	23-130

Examples (Housing and Element): J2SD-10CWC11-035
J4NF-3PWC15-070
J6SH-10JWM23-130

Replacement Elements: 10CWC11-035
3PWC15-070
10JWM23-130

Application Notes:

For Media Types:
4C (coalescer) = 99.995% efficiency
10C (coalescer) = 95% efficiency
3P = 3 micron particulate filter
A = Hydrocarbon vapor removal
100WS = 100 micron liquid removal
10JWM = desiccant dryer with molecular sieve
10JWA = desiccant dryer with activated aluminum

Element Construction:
WC = Metal retainers, bonded on end caps with positive 0-ring seal.

Replacement Elements:
Start with the whole part number, but for the replacement element, drop the series name, thread connection and thread type. For example if you started with a J2SD-4CWC15-070, and you needed a replacement element, the element part number would be 4CWC15-070.

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Air Preparation Units

Filters, Regulators and Lubricators

Bulletin 1300 - 703-3/USA

Filter, Regulator, Lubricator (FRL)

Finite®

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Painting Contractors
Plastic & Plastic Products
Plating
Potato Chips
Printing
Railroads
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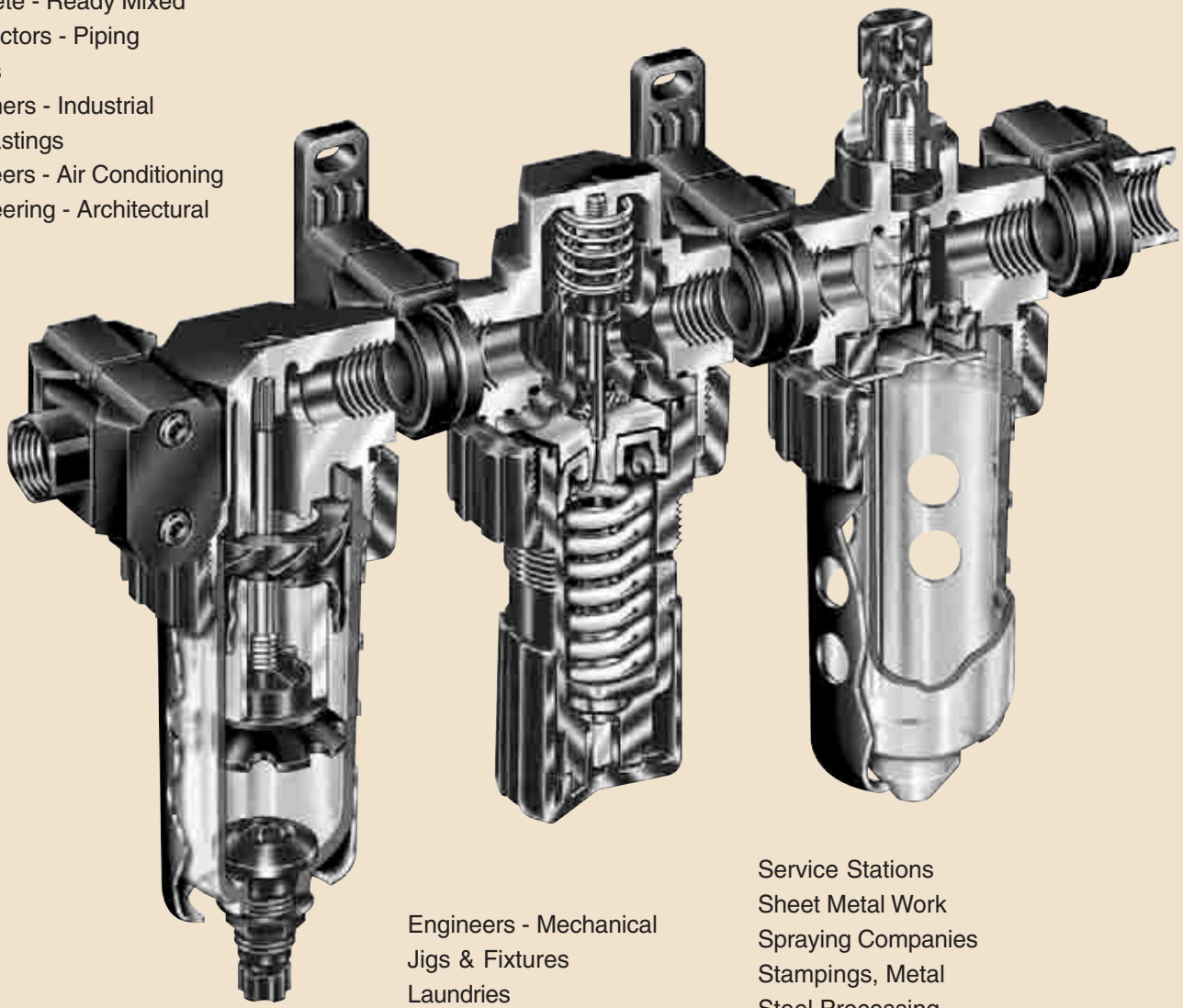
Sand Blasting
Screw Machine Products



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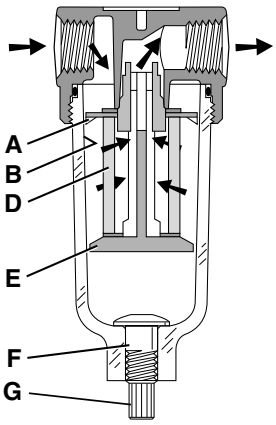
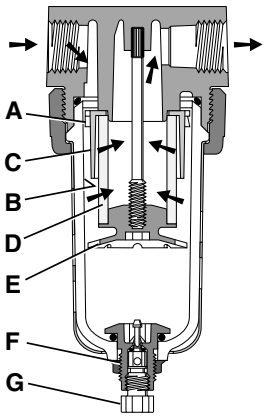
How Air Line Filters Work



Miniature



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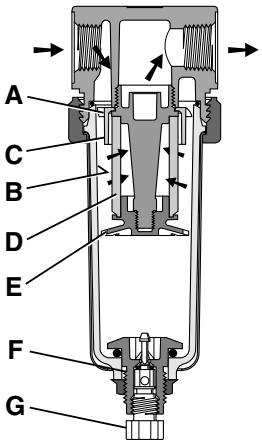

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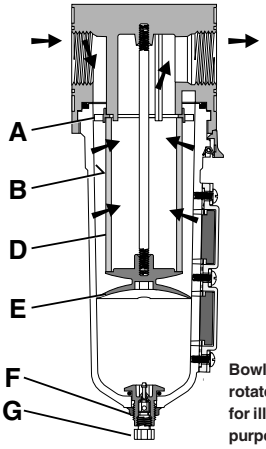
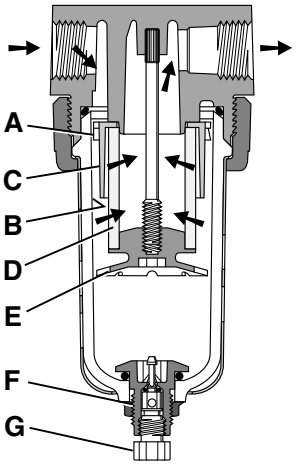


Bowl shown rotated 90° for illustration purposes

FP3NF



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First Stage Filtration:

Air enters at inlet port and flows through detector plate **(A)** which causes a swirling action. Liquids and coarse particles are forced to the bowl interior wall **(B)** by the centrifugal action of the swirling air. They then carry down the bowl wall by the force of the gravity. Shroud **(C)** assures that the proper swirling action occurs and that the air does not pass directly through the filter element **(D)** until the large particles and liquids are removed. The baffle **(E)** separates the lower portion of the bowl into a "quiet zone" where the removed liquids and particles collect, unaffected by the swirling air, and are therefore not reentrained into the flowing air.

Second Stage Filtration:

After liquids and large particles are removed in the first stage of filtration, the air flows through element **(D)** where smaller particles are filtered out and retained. The filtered air then passes downstream. Collected liquids and particles in the "quiet zone" should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by the twist drain **(F)** which is actuated by twisting knob **(G)** counterclockwise.

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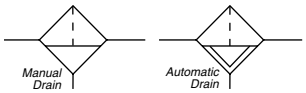
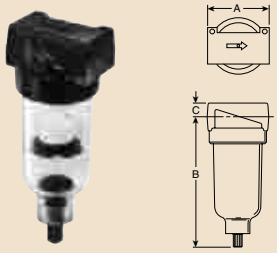
Filtration and Separation Division
Oxford, MI

Air Line Filters





MINIATURE

Pipe Ports	1/8"	1/4"
*Flow SCFM	22	24

1 Ounce Bowl
5 Micron Element

	Poly Bowl	Metal Bowl
Manual Drain (Twist)		
1/8"	F14F01B	F14F03B
1/4"	F14F11B	F14F13B
Automatic Pulse Drain		
1/8"	F14F05B	F14F07B
1/4"	F14F15B	F14F17B

Specifications

Body: Zinc

Bowls:
Transparent Polycarbonate
Metal (Zinc)

Filter Elements:
5 Micron Standard – Plastic Element Part #PS403

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)

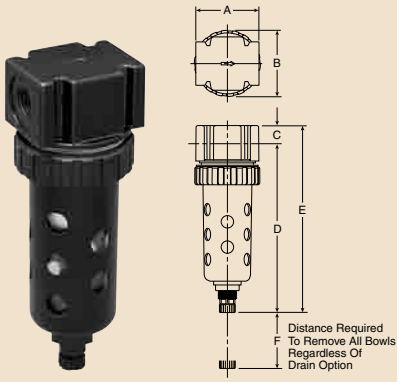
Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Automatic Pulse Drain:
Operating Range 10-250 PSIG (0.7 to 17 bar) at 125°F (52°C) or less

Dimensions

Port Size	A	B	"B" with Auto. Drain	C	D
1/8", 1/4"	1.69	3.82	3.87	.39	1.53
	43mm	97mm	99mm	9.9mm	39mm

* SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.



SUBCOMPACT

Pipe Ports	1/8"	1/4"	3/8"
*Flow SCFM	32	54	70

2.0 Ounce Bowl
5 Micron Element

	Poly Bowl/ Metal Guard	Metal Bowl/ Sight Gauge
Manual Drain (Twist)		
1/8"	F05F02B	F05F04B
1/4"	F05F12B	F05F14B
3/8"	F05F22B	F05F24B
Automatic Pulse Drain		
1/8"	F05F0PB	F05F0TB
1/4"	F05F1PB	F05F1TB
3/8"	F05F2PB	F05F2TB

Specifications

Body: Zinc

Bowls:
Transparent Polycarbonate
Metal (Zinc) with Sight Gauge

Filter Elements:
5 Micron Standard – Plastic Element Part #PS902P

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)

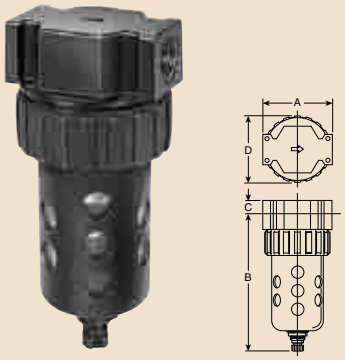
Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Automatic Pulse Drain:
Operating Range 10-150 PSIG (0.7 to 10 bar) at 125°F (52°C) or less

Dimensions

Port Size	A	B	C	D	E	F
1/8", 1/4", 3/8"	2.00	2.06	.56	5.35	5.91	1.77
	51mm	52mm	14mm	136mm	150mm	45mm

* SCFM = Standard cubic feet per minute at 100 PSIG inlet and 5 PSIG pressure drop.



COMPACT

Pipe Ports	1/4"	3/8"	1/2"
*Flow SCFM	53	80	85

4.4 Ounce Bowl
5 Micron Element

	Poly Bowl/ Metal Guard	Metal Bowl/ Sight Gauge
Manual Drain (Twist)		
1/4"	F06F12B	F06F14B
3/8"	F06F22B	F06F24B
1/2"	F06F32B	F06F34B
Automatic Float Drain		
1/4"	F06F16B	F06F18B
3/8"	F06F26B	F06F28B
1/2"	F06F36B	F06F38B

Specifications

Body: Zinc

Bowls:
Transparent Polycarbonate
Metal (Zinc) with Sight Gauge

Filter Elements:
5 Micron Standard – Plastic Element Part #PS702

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)

Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Automatic Float Drain:
Operating Range 10-250 PSIG (0.7 to 17 bar) at 125°F (52°C) or less

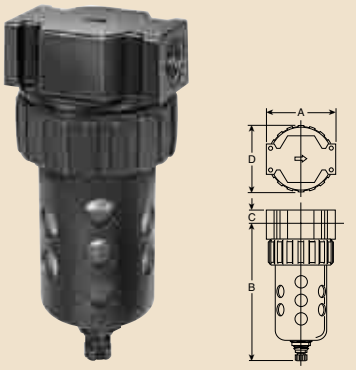
Dimensions

Port Size	A	B	"B" with Auto. Drain	C	D
1/4", 3/8", 1/2"	2.81	5.69	5.74	.53	2.74
	71mm	145mm	146mm	13mm	70mm

* SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Air Line Filters



STANDARD

Pipe Ports	3/8"	1/2"	3/4"
*Flow SCFM	100	130	145

7.2 Ounce Bowl
5 Micron Element

	Poly Bowl/ Metal Guard	Metal Bowl/ Sight Gauge
Manual Drain (Twist)		
3/8"	F07F22B	F07F24B
1/2"	F07F32B	F07F34B
3/4"	F07F42B	F07F44B
Automatic Float Drain		
3/8"	F07F26B	F07F28B
1/2"	F07F36B	F07F38B
3/4"	F07F46B	F07F48B

Specifications

Body: Zinc

Bowls:
Transparent Polycarbonate
Metal (Zinc) with Sight Gauge

Filter Elements:
5 Micron Standard – Plastic Element Part #PS802

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on this page)

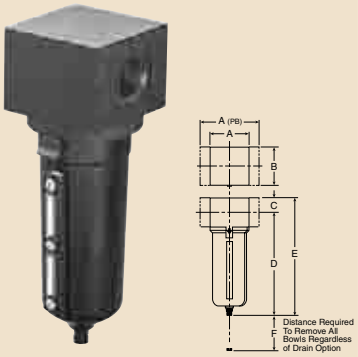
Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Automatic Float Drain:
Operating Range 10-250 PSIG (0.7 to 17 bar) at 125°F (52°C) or less

Dimensions

Port Size	A	B	"B" with Auto. Drain	C	D
3/8", 1/2", 3/4"	3.24	6.97	7.00	.70	3.25
	82mm	177mm	178mm	18mm	83mm

* SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.



HI-FLOW

Pipe Ports	3/4"	1"	1-1/2"
*Flow SCFM	270	300	310

18 Ounce Metal Bowl
5 Micron Element

	Metal Bowl/ Sight Gauge
Manual Drain (Twist)	
3/4"	FP3NFA96ESM
1"	FP3NFA98ESM
1-1/2"	FP3NFA9PESM
Automatic Float Drain	
3/4"	FP3NFA96ESA
1"	FP3NFA98ESA
1-1/2"	FP3NFA9PESA

Specifications

Body: Aluminum

Bowl: Metal (Aluminum) with Sight Gauge

Filter Elements:
5 Micron Standard – Plastic Element Part #FP3NKA00ESE

Temperature and Pressure Ratings:

Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Automatic Float Drain:
Operating Range 10-250 PSIG (0.7 to 17 bar) at 125°F (52°C) or less

Dimensions

Port Size	A	A(PB)	B	C	D	E	F
3/4", 1", 1-1/2"	3.62	5.59	3.62	1.38	9.57	10.95	4.92
	92mm	142mm	92mm	35mm	243mm	278mm	125mm

* SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

⚠ CAUTION

Polycarbonate bowls, being transparent and tough, are ideal for use with filters and lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydro-carbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire resistant fluids, such as phosphate ester and di-ester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

TO CLEAN POLYCARBONATE BOWLS, USE MILD SOAP AND WATER ONLY! DO NOT use detergents or cleansing agents such as acetone, alcohol, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Bowl guards are recommended for protection of polycarbonate bowls where chemical attack may occasionally occur.

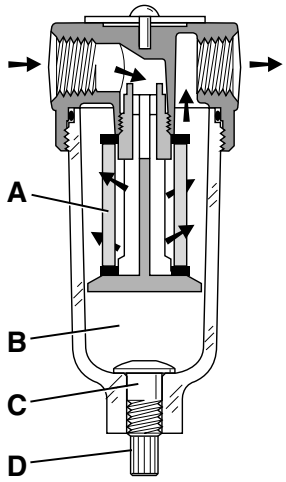
Metal bowl guards are recommended for all applications.

⚠ WARNING

To avoid polycarbonate bowl rupture that can cause personal injury or property damage, do not exceed bowl pressure or temperature ratings. Polycarbonate bowls have a 150 PSIG pressure rating and a maximum temperature rating of 125°F.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

How Air Line Coalescing Filters Work

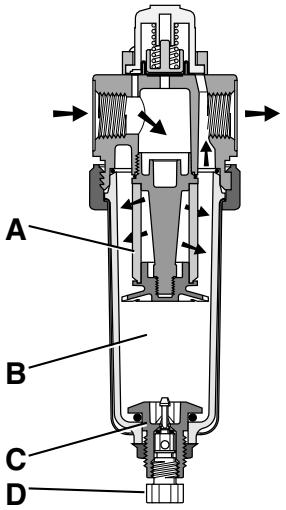


Miniature

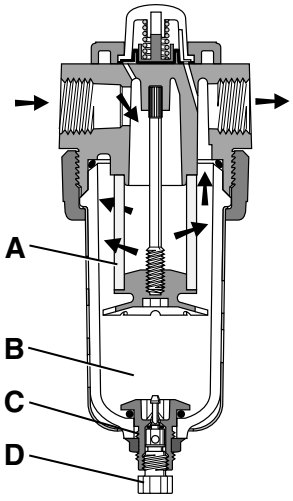
The contaminated air enters the element interior and is forced through a thick membrane of borosilicate glass fibers coated with epoxy **(A)**. Flow then passes through an outer structural support and, at this stage, has removed up to 99.97% + of the sub-micron particles evident in the contaminated air. These tiny droplets coalesce together and are blotted from the filter surface by the drain and release layers of non-woven glass felt and polyester. The drops now begin a gravitational passage to the filter sump **(B)** where they can be manually or automatically drained.

The clean, filtered air now passes through the outer screen plastic net and out into the pneumatic system. The Air Line Coalescing Filter removes liquid aerosols and sub-micron particulate matter.

Collected liquids and particles in the "quiet zone" should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by the manual drain **(C)** which is actuated by twisting knob **(D)** counterclockwise.



F15F



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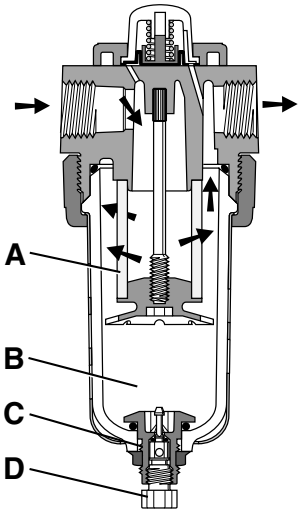

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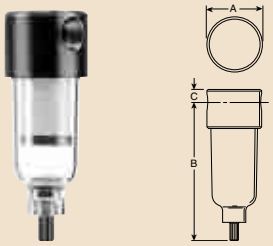
Oxford, MI

Coalescing Filters



MINIATURE

Pipe Ports	1/8"	1/4"
Flow SCFM	7.7	7.7

1 Ounce Bowl
Grade 6 and Grade 10 Elements

	Poly Bowl	Metal Bowl
Manual Drain (Twist)		
1/8"	Q5S-6HM06-013	H5S-6HM06-013
1/4"	Q1S-6HM06-013	H1S-6HM06-013
Automatic Drain		
1/8"	AQ5S-6HM06-013	AH5S-6HM06-013
1/4"	AQ1S-6HM06-013	AH1S-6HM06-013

For Grade 10 Element insert "10" in place of the "6" before the "HM".
Example: AQ1S-**10**HM06-013

Specifications

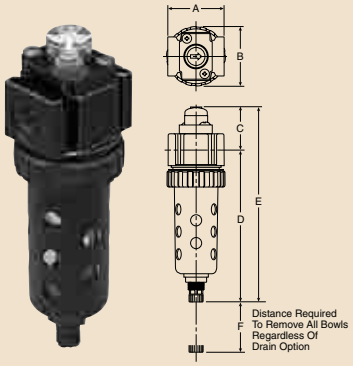
Body: Aluminum
Bowls: Transparent Polycarbonate
Metal (Zinc)
Filter Elements:
Borosilicate & Felt Glass Fibers
Grade 6 (Standard) - #6HM06-013
Grade 10 (Optional) - #10HM06-013

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)
Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)
Operation: Minimum Operating Pressure for Filter with Automatic Drain: 10 PSIG (.7 bar)

Dimensions

Port Size	A	B	"B" with Auto. Drain	C
1/8", 1/4"	1.69	3.82	3.87	.39
	43mm	97mm	99mm	9.9mm



SUBCOMPACT

Pipe Ports	1/8"	1/4"	3/8"
Flow SCFM	10	10	10

2.0 Ounces Bowl
Grade 6 and Grade 10 Elements
(Grade 10 Elements are rated at 51 SCFM)
Differential Pressure Indicator Standard

	Poly Bowl/ Bowl Guard	Metal Bowl/ Sight Gauge
Manual Drain (Twist)		
1/8"	F15F02E	F15F04E
1/4"	F15F12E	F15F14E
3/8"	F15F22E	F15F24E
Automatic Pulse Drain		
1/8"	F15F0PE	F15F0TE
1/4"	F15F1PE	F15F1TE
3/8"	F15F2PE	F15F2TE

Specifications

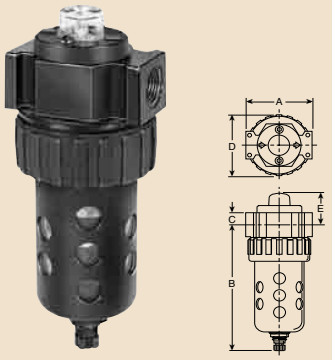
Body: Zinc
Bowls: Transparent Polycarbonate
Metal (Zinc) with Sight Gauge
Filter Elements:
Borosilicate & Felt Glass Fibers
Grade 6 (Standard) - #PS924P
Grade 10 (Optional) - #PS930P
Note: For housings with a Grade 10 element, change the "E" in the 7th position of the part number to an "H"

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)
Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)
Automatic Pulse Drain:
Operating Range 10 to 150 PSIG (0.7 to 10.3 bar) at 125°F (52°C) or less

Dimensions

Port Size	A	B	C	D	E	F
1/8", 1/4", 3/8"	2.00	2.06	1.50	5.35	6.85	1.77
	51mm	52mm	38mm	136mm	174mm	45mm



COMPACT

Pipe Ports	1/4"	3/8"	1/2"
Flow SCFM	18	18	18

4.4 Ounces Bowl
Grade 6 and Grade 10 Elements
Differential Pressure Indicator Standard

	Poly Bowl/ Bowl Guard	Metal Bowl/ Sight Gauge
Manual Drain (Twist)		
1/4"	F11F12E	F11F14E
3/8"	F11F22E	F11F24E
1/2"	F11F32E	F11F34E
Automatic Float Drain		
1/4"	F11F16E	F11F18E
3/8"	F11F26E	F11F28E
1/2"	F11F36E	F11F38E

For Grade 10 Element change the 7th space from an "E" to an "H".
Example: F11F11**H**.

Specifications

Body: Zinc
Bowls: Transparent Polycarbonate
Metal (Zinc) with Sight Gauge
Filter Elements:
Borosilicate & Felt Glass Fibers
Grade 6 (Standard) - #PS724
Grade 10 (Optional) - #PS730

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)
Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)
Operation: Minimum Operating Pressure for Filter with Automatic Drain: 10 PSIG (.7 bar)

Dimensions

Port Size	A	B	"B" with Auto. Drain	C	D	E
1/4", 3/8", 1/2"	2.81	5.69	5.74	.53	2.74	1.46
	71mm	145mm	146mm	13mm	70mm	37mm

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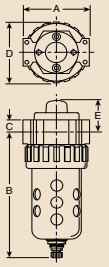
Oxford, MI



STANDARD

Pipe Ports	3/8"	1/2"	3/4"
Flow SCFM	26	26	26

7.2 Ounces Bowl
Grade 6 and Grade 10 Elements
Differential Pressure Indicator Standard

	Poly Bowl/ Bowl Guard	Metal Bowl/ Sight Gauge
Manual Drain (Twist)		
3/8"	F12F22E	F12F24E
1/2"	F12F32E	F12F34E
3/4"	F12F42E	F12F44E
Automatic Float Drain		
3/8"	F12F26E	F12F28E
1/2"	F12F36E	F12F38E
3/4"	F12F46E	F12F48E

For Grade 10 Element change the 7th space from an "E" to an "H".
Example: F12F21**H**.

Specifications

Body: Zinc

Bowls: Transparent Polycarbonate
Metal (Zinc) with Sight Gauge

Filter Elements:
Borosilicate & Felt Glass Fibers
Grade 6 (Standard) - #PS824
Grade 10 (Optional) - #PS830

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)

Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Operation: Minimum Operating Pressure for Filter with Automatic Drain: 10 PSIG (.7 bar)

Dimensions

Port Size	A	B	"B" with Auto. Drain	C	D	E
3/8", 1/2" 3/4"	3.24	6.97	7.00	.70	3.25	1.63
	82 mm	177 mm	178 mm	18 mm	83 mm	41mm

Media Specifications (Grade 6 is .01 micron rated)

Grade	Coalescing Efficiency .3 to .6 Micron Particles	Maximum Oil Carryover[1] PPM w/w	Pressue Drop (PSID)[2] @ Rated Flow		Flow: SCFM @ 3 PSID Operating Pressure 100 PSIG
			Media Dry	Media Wet With 10-20 wt. oil	
Q5S/Q1S and H5S/H1S Series					
6	99.97%	.008	1.0	2-3	7.7 SCFM
10	95%	.85	.5	.5	13 SCFM
F15F Series					
6	99.97%	.008	1.0	2-3	10 SCFM
10	95%	.85	.5	.5	16 SCFM
F11F Series					
6	99.97%	.008	1.0	2-3	18 SCFM
10	95%	.85	.5	.5	30 SCFM
F12F Series					
6	99.97%	.008	1.0	2-3	26 SCFM
10	95%	.85	.5	.5	44 SCFM

[1]Tested per ADF 400 at 40 ppm inlet.
[2]Add dry + wet for total pressure drop.

Grade 6: General air coalescing applications when total removal of liquid aerosols and suspended fines is required in all pressure ranges. Protection of air gauging, air logic, modulating systems, critical air conveying, most breathing air systems, etc.

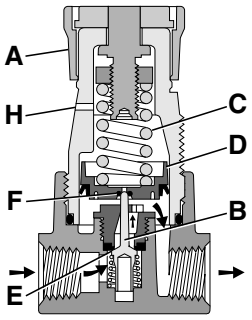
Grade 10: Precoalescer or prefilter for Grade 6 to remove gross amounts of water and oil, or tenacious aerosols which are difficult to drain. Upgrading existing particulate equipment to coalescing without increase in pressure drop.

Coalescing Applications

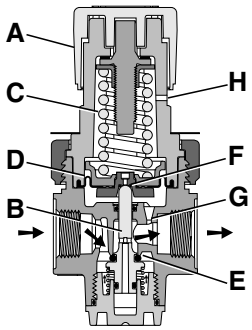
- Dryer protection
- Paint spray booths
- Breathing air
- Tool protection
- Valve protection
- Cylinder protection
- Compressed air system protection

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

How Air Line Regulators Work



Miniature

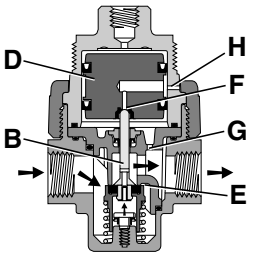


F05R, F06R, F07R

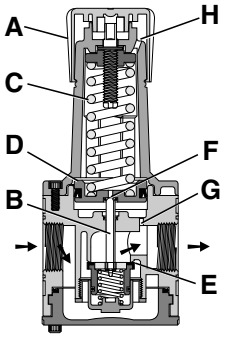
With the adjusting knob **(A)** turned fully conterclockwise (no spring load), and pressure supplied to the regulator inlet port, the valve poppet assembly **(B)** is closed. Turning the adjustment knob clockwise applies a load to control spring **(C)**. This load causes the piston/diapraghm **(D)** and the valve poppet assembly **(B)** to move downward allowing flow across the seat area **(E)** created between the poppet assembly and the seat. Pressure in the downstream line is sensed below the piston/diaphragm **(D)** and offsets the load of spring **(C)**. As downstream pressure rises, poppet assembly **(B)** and control piston **(C)** move upward until the area **(E)** is closed and the load of the spring **(C)** and pressure under piston/diaphragm **(D)** are in balence. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the piston/diaphragm **(D)**. The load of control spring **(C)** now causes the poppet assembly to move downward opening seat area **(E)** allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening **(E)**.

During low flow requirements, the amount of opening at the seat **(E)** is small, while at high flows it is large. The downstream pressure signal, which regulates the amount of opening, required an adjustment over this range, in order to attempt a constant output. This adjustment is the orifice **(G)**, which is sized and located in such a manner as to provide a compensation to the downstream pressure signal transmitted to the piston. This effect is called aspiration and its effect is to maintain downstream pressure nearly constant over a wide range of flow demands.

Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the piston/diaphragm **(D)** to move upward against control spring **(C)**, open vent hole **(F)**, and vent the excess pressure to atmostphere through the hole in the bonnet **(H)**. (This occurs in the relieving type regulator only.)



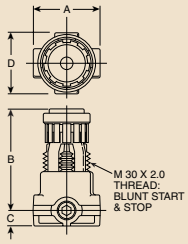
F11R, F12R



FP3NR

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Air Line Regulators



MINIATURE

Pipe Ports	1/8"	1/4"
*Flow SCFM	13	15

Non-Rising Knob/Relieving Type
2-125 PSIG Range

	Regulator
1/8"	F14R013F
1/4"	F14R113F

Specifications

Body: Zinc
Bonnet: Plastic
Spring: Steel

Temperature and Pressure Ratings:

32°F to +125°F (0°C to 52°C)
Maximum Primary Pressure:
250 PSIG (0 to 17 bar)
Secondary Pressure Range:
2-125 PSIG (.14 - 8.6 bar)

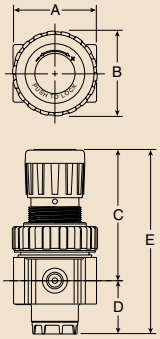
Do not attach to pressurized gas bottles.

Dimensions

Model	Port Size	A	B	C	D
14R	1/8", 1/4"	1.65	2.50	.38	1.56
		42mm	64mm	10mm	40mm

NOTE: 1.20 Dia. (31mm) hole required for panel mounting.

* SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.



SUBCOMPACT

Pipe Ports	1/8"	1/4"	3/8"
*Flow SCFM	30	30	40

Non-Rising Knob/Relieving Type
2-125 PSIG Range

	Regulator Without Gauge	Regulator With Gauge
1/8"	F05R013A	F05R018A
1/4"	F05R113A	F05R118A
3/8"	F05R213A	F05R218A

Specifications

Body: Zinc
Bonnet: Plastic
Springs: Steel

Temperature and Pressure Ratings:

32°F to +175°F (0°C to 80°C)
Maximum Primary Pressure:
250 PSIG (17 bar)

Do not attach to pressurized gas bottles.

Dimensions

Port Size	A	B	C	D	E
1/8", 1/4" 3/8"	2.00	2.06	3.16	1.28	4.44
	51mm	52mm	80mm	32mm	113mm

NOTE: 1.53 Dia. (39mm) hole required for panel mounting.

* SCFM @ 100 PSI Inlet, 90 PSI Set Pressure, 10 PSID.

PILOT CONTROLLED REGULATORS

Port Size	Pilot Controlled Regulator – No Gauge
1/4"	F11R115P
3/8"	F11R215P
1/2"	F11R315P
1/2"	F12R315P
3/4"	F12R415P

Maximum Primary Pressure:
250 PSIG (17 bar)
Secondary Pressure is adjusted by a Pilot Regulator

For Pilot Regulator Use:
F14R113F

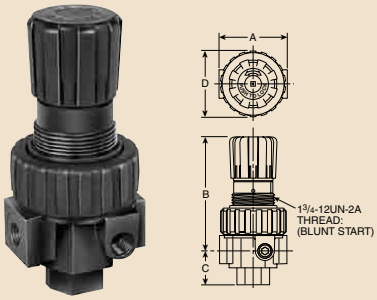
Maximum Primary Pressure:
250 PSIG (17 bar)
Secondary Pressure is adjusted by a Pilot Regulator

* SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

Do not attach to pressurized gas bottles.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Air Line Regulators



COMPACT

Pipe Ports	1/4"	3/8"	1/2"
*Flow SCFM	53	60	75

Non-Rising Knob/Relieving Type
2-125 PSIG Range

	Regulator
1/4"	F06R113A
3/8"	F06R213A
1/2"	F06R313A

Specifications

Body: Zinc
Bonnet: Plastic
Springs: Poppet – Stainless Steel
Control – Steel

Temperature and Pressure Ratings:

32°F to +175°F (0°C to 80°C)
Maximum Primary Pressure:
250 PSIG (17 bar)
Secondary Pressure Range:
2-125 PSIG (.14 - 8.6 bar)

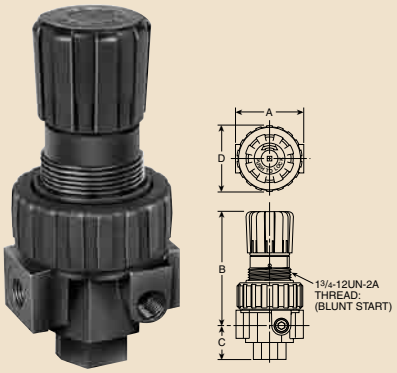
Do not attach to pressurized gas bottles.

Dimensions

Port Size	A	B	C	D
1/4", 3/8" 1/2"	2.81	4.69	1.39	2.74
	71mm	119mm	35mm	70mm

NOTE: 2.00 Dia. (51mm) hole required for panel mounting. Maximum panel thickness 1/4".

* SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.



STANDARD

Pipe Ports	3/8"	1/2"	3/4"
*Flow SCFM	70	90	90

Non-Rising Knob/Relieving Type
2-125 PSIG Range

	Regulator
3/8"	F07R213A
1/2"	F07R313A
3/4"	F07R413A

Specifications

Body: Zinc
Bonnet: Plastic
Springs: Poppet – Stainless Steel
Control – Steel

Temperature and Pressure Ratings:

32°F to +175°F (0°C to 80°C)
Maximum Primary Pressure:
250 PSIG (17 bar)
Secondary Pressure Ranges:
2-125 PSIG (.14 - 8.6 bar)

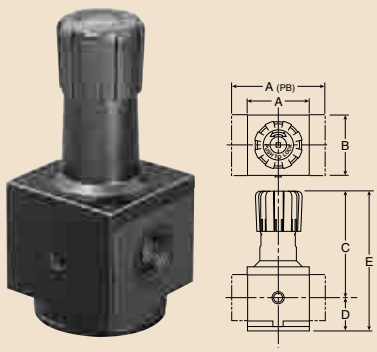
Do not attach to pressurized gas bottles.

Dimensions

Port Size	A	B	C	D
3/8", 1/2" 3/4"	3.24	4.79	1.61	2.74
	82mm	122mm	41mm	70mm

NOTE: 2.00 Dia. (51mm) hole required for panel mounting. Maximum panel thickness 1/4".

* SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.



HI-FLOW

Pipe Ports	3/4"	1"	1-1/2"
*Flow SCFM	200	300	300

T-Handle/Relieving Type
2-125 PSIG Range

	Regulator
3/4"	FP3NRA96BNN
1"	FP3NRA98BNN
1-1/2"	FP3NRA9PBNN

Specifications

Body: Aluminum
Bonnet: Aluminum
Spring: Steel

Temperature and Pressure Ratings:

32°F to +175°F (0°C to 80°C)
Maximum Primary Pressure:
250 PSIG (17 bar)
Secondary Pressure Ranges:
2-125 PSIG (.14 to 8.6 bar)

Do not attach to pressurized gas bottles.

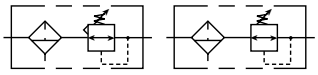
Dimensions

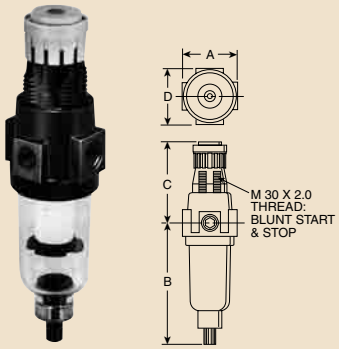
Port Size	A	B	C	D	E	F
3/4", 1", 1-1/2"	3.62	5.59	3.62	6.38	2.08	8.46
	92mm	142mm	92mm	162mm	53mm	215mm

* SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

“Piggyback” Filter/Regulators





MINIATURE

Pipe Ports	1/8"	1/4"
*Flow SCFM	16	18

1 Ounce Bowl
5 Micron Element
Relieving Type/Locking Knob
2-125 PSIG Range

	Poly Bowl	Metal Bowl Without Sight Gauge
Manual Drain (Twist)		
1/8"	F14E01B13F	F14E03B13F
1/4"	F14E11B13F	F14E13B13F
Automatic Pulse Drain		
1/8"	F14E05B13F	F14E07B13F
1/4"	F14E15B13F	F14E17B13F

Specifications

Filter/Regulator Body: Zinc

Bowls: Transparent Polycarbonate
Metal (Zinc) without Sight Gauge

Elements: 5 Micron Standard – Plastic Element Part #PS403

Bonnet: Plastic

Spring: Steel

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)

Metal Bowl: 0 to 250 PSIG (0 to 17 bar)
32°F to 125°F (0°C to 52°C)

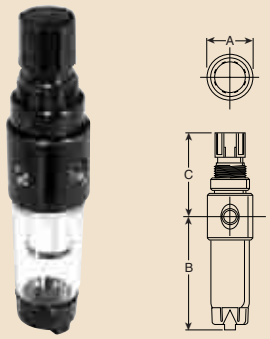
Secondary Pressure Ranges:
2-125 PSIG (.3 to 8.6 bar)

Do not attach to pressurized gas bottles.

Dimensions

Port Size	A	B	“B” with Auto. Drain	C	D
1/8", 1/4"	1.62	3.79	3.84	2.42	1.58
	41mm	98mm	98mm	61mm	40mm

* SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.



MINI COMBO COALESCER

	Grade 6		Grade 10	
Pipe Ports	1/8"	1/4"	1/8"	1/4"
*Flow SCFM	7	7	11	11

1 Ounce Bowl
Coalescing Element
Relieving Type/Locking Knob
0-100 PSIG Range

	Poly Bowl	Metal Bowl
Manual Drain(Push)		*(Twist)*
1/8"	F10E0113E	F10E0313E
1/4"	F10E1113E	F10E1313E
Automatic Pulse Drain		
1/8"	F10E0513E	F10E0713E
1/4"	F10E1513E	F10E1713E

The “E” at the end of the part number specifies a Grade 6 element. For a Grade 10 element, change the “E” to an “H”.

Specifications

Filter/Regulator Body:
Aluminum, Black Anodized.

Bowls: Transparent Polycarbonate
Metal (Aluminum, Black Anodized)

Elements:
Grade 6 Coalescing - Part #6HR06-013 x 10
Grade 10 Coalescing - Part #10HR06-013 x 10
(Coalescing elements are sold in boxes of 10.)

Spring: Steel

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)

Metal Bowl: 0 to 200 PSIG (0 to 13.7 bar)
32°F to 125°F (0°C to 52°C)

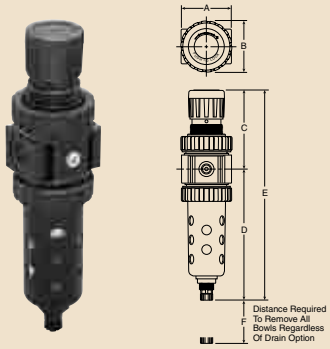
Secondary Pressure Ranges:
2-125 PSIG (.3 to 8.6 bar)

Do not attach to pressurized gas bottles.

Dimensions

Bowl Type	A	B	C
Poly Bowl	1.61	3.67	3.14
	41mm	93mm	80mm
Metal Bowl	1.61	4.18	3.14
	41mm	106mm	80mm

* SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.



SUBCOMPACT

Pipe Ports	1/8"	1/4"	3/8"
*Flow SCFM	30	30	40

2.0 Ounce Bowl
5 Micron Element
Removeable Non-Rising Knob
2-125 PSIG Range

	Poly Bowl/ Metal Guard	Metal Bowl/ Sight Gauge
Manual Drain (Twist)		
1/8"	F05E02B13A	F05E04B13A
1/4"	F05E12B13A	F05E14B13A
3/8"	F05E22B13A	F05E24B13A
Automatic Pulse Drain		
1/8"	F05E0PB13A	F05E0TB13A
1/4"	F05E1PB13A	F05E1TB13A
3/8"	F05E2PB13A	F05E2TB13A

Specifications

Filter/Regulator Body: Zinc

Bowls: Transparent Polycarbonate
Metal (Zinc) w/Sight Gauge

Elements: 5 MIcron Standard - Plastic Element Part #PS902P

Bonnet: Plastic

Springs: Steel

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 80°C)
(See CAUTION on page 78)

Metal Bowl: 0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)

Automatic Drain:
10-150 PSIG (0.7 to 10.3 bar)

Do not attach to pressurized gas bottles.

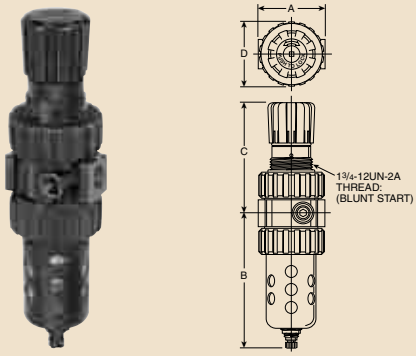
Dimensions

Port Size	A	B	C	D	E	F
1/8", 1/4", 3/8"	2.00	2.06	3.16	5.35	8.51	1.77
	51mm	52mm	80mm	136mm	216mm	45mm

* SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

“Piggyback” Filter/Regulators



COMPACT				STANDARD			
Pipe Ports	1/4"	3/8"	1/2"	Pipe Ports	3/8"	1/2"	3/4"
*Flow SCFM	46	55	61	*Flow SCFM	70	90	90
4.4 Ounce Bowl 5 Micron Element Relieving Type 2-125 PSIG Range				7.2 Ounce Bowl 5 Micron Element Relieving Type 2-125 PSIG Range			

	Poly Bowl/ Bowl Guard	Metal Bowl/ Sight Gauge		Poly Bowl/ Bowl Guard	Metal Bowl/ Sight Gauge
Manual Drain (Twist)			*Manual Drain (Twist)*		
1/4"	F06E12B13A	F06E14B13A	3/8"	F07E22B13A	F07E24B13A
3/8"	F06E22B13A	F06E24B13A	1/2"	F07E32B13A	F07E34B13A
1/2"	F06E32B13A	F06E34B13A	3/4"	F07E42B13A	F07E44B13A
Automatic Float Drain			*Automatic Float Drain*		
1/4"	F06E16B13A	F06E18B13A	3/8"	F07E26B13A	F07E28B13A
3/8"	F06E26B13A	F06E28B13A	1/2"	F07E36B13A	F07E38B13A
1/2"	F06E36B13A	F06E38B13A	3/4"	F07E46B13A	F07E48B13A

Specifications

Filter/Regulator Body: Zinc

Bowls: Transparent Polycarbonate
Metal (Zinc) with Sight Gauge

Elements: 5 Micron Standard – Plastic
Element Part #PS702- Compact
#PS802 - Standard

Bonnet: Plastic

Springs: Poppet – Stainless Steel
Control – Steel

Temperature and Pressure Ratings:

Polycarbonate Bowl: 0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)

Metal Bowl: 0 to 250 PSIG (0 to 17 bar)
32°F to 125°F (0°C to 52°C)

Automatic Drain: Needs 10 PSI to operate.

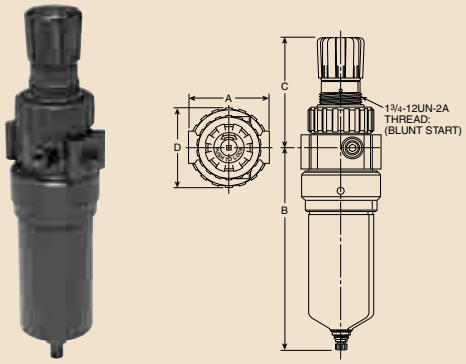
Secondary Pressure Range: 2-125 PSIG (.3 to 8.6 bar)

Do not attach to pressurized gas bottles.

Dimensions

Port Size	A	B	“B” with Auto. Drain	C	D
1/4", 3/8", 1/2" (COMPACT)	2.78	5.69	5.74	4.69	2.74
	71mm	145mm	146mm	119mm	70mm
3/8", 1/2", 3/4" (STANDARD)	3.24	6.97	7.00	4.79	3.25
	82mm	172mm	178mm	122mm	83mm

* SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.



COALESCER / REGULATOR			
Pipe Ports	3/8"	1/2"	3/4"
*Flow SCFM (Standard)	36	36	36
Flow SCFM (High Flow)	55	55	55

7.2 Ounce Bowl
Coalescing element or coalescing element w/Built-in prefilter
Relieving Type
2-125 PSIG Range

	Standard w/ Coalescer	Standard w/ Coalescer and Built-in Prefilter		High Flow w/ Coalescer	High Flow w/ Coalescer and Built-in Prefilter
Manual Drain (Twist)			*Manual Drain (Twist)*		
3/8"	F12E23C13A	F12E23Q13A	3/8"	F12E28C13A	F12E28Q13A
1/2"	F12E33C13A	F12E33Q13A	1/2"	F12E38C13A	F12E38Q13A
3/4"	F12E43C13A	F12E43Q13A	3/4"	F12E48C13A	F12E48Q13A
Automatic Float Drain			*Automatic Float Drain*		
3/8"	F12E27C13A	F12E27Q13A	3/8"	F12E29C13A	F12E29Q13A
1/2"	F12E37C13A	F12E37Q13A	1/2"	F12E39C13A	F12E39Q13A
3/4"	F12E47C13A	F12E47Q13A	3/4"	F12E49C13A	F12E49Q13A

Specifications

Filter/Regulator Body: Zinc

Bowl: Aluminum

Elements:
Standard w/coalescer - #6CU13-027 x 4
Standard w/coalescer & built in prefilter - #6QU13-027 x 4
High Flow w/coalescer - #6CU13-042 x 4
High Flow w/coalescer & built in prefilter - #6QU13-042 x 4

Bonnet: Plastic

Springs: Poppet - Stainless Steel
Control - Steel

Temperature and Pressure Ratings:

Metal Bowl: 0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Automatic Drain: Needs 10 PSI to operate.

Secondary Pressure Ranges: 2-125 PSIG (.3 to 8.6 bar)

Do not attach to pressurized gas bottles.

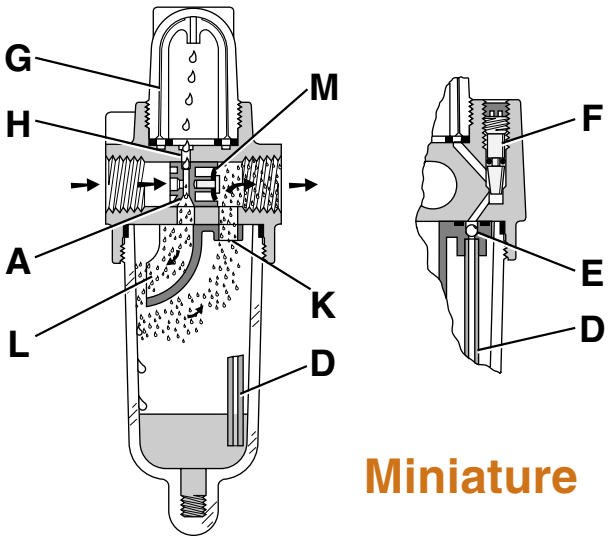
Dimensions

Port Size	A	B	“B” with Auto. Drain	C	D
3/8", 1/2" 3/4"	3.24	8.20	8.17	4.79	3.25
	82 mm	208 mm	208 mm	122 mm	83 mm

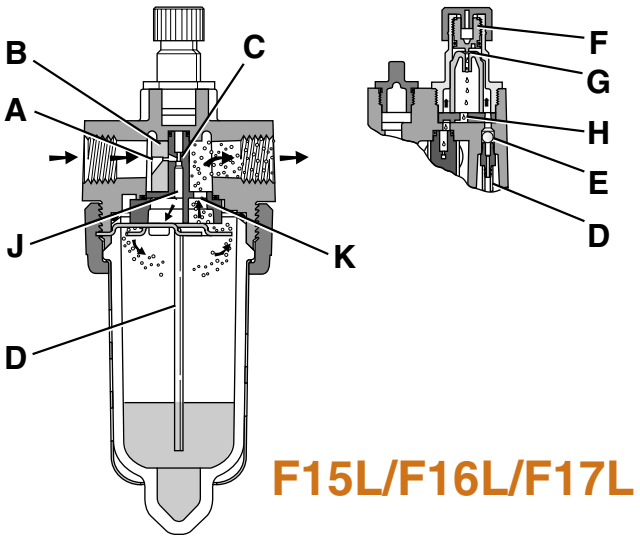
* SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

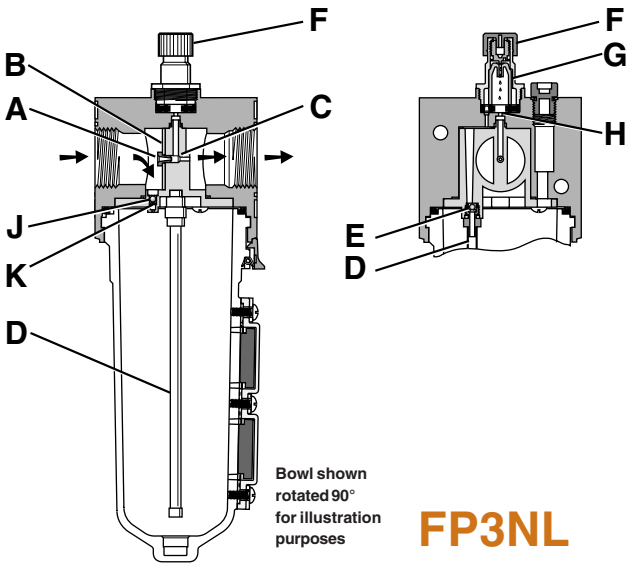
How Air Line Lubricators Work



Miniature



F15L/F16L/F17L



Bowl shown rotated 90° for illustration purposes

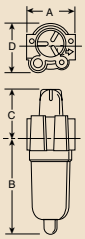
FP3NL

Air flowing through the unit goes through two paths. At low air flow rates, the majority of the air flows through venturi section **(A)**. The rest of the air slightly deflects and flows by the flapper **(B)**, restrictor disc **(M)** on F14L. The velocity of the air flowing through venturi section **(A)** creates a pressure drop at throat section **(C)**. This lower pressures allows oil to be forced from the reservoir through the pickup tube **(D)** past the check ball **(E)**, to the dome assembly where the rate of oil flow is controlled by metering screw **(F)**. Rotation of the metering screw **(F)** in the counterclockwise direction increases the oil flow rate; in the clockwise direction decreases the oil flow rate.

Oil then flows through the clearance between inner and outer sight domes **(G)** where drops are formed and drip into the nozzle tube **(H)**. Here it is then broken into fine particles as it expands into the low pressure venturi. From there, the atomized oil flows through the precision orifice **(J)**. On the F14L, it flows through the curved scoop **(L)** and is deflected against the interior wall of the reservoir. This action causes the larger particles of oil to fall back into the reservoir where it can recirculate through the system. The remaining mist of fine particles (5 micron or smaller – about 3% of which passed through the sight dome) is then carried through the opening **(K)** where it joins and mixes with air that bypassed the flapper **(B)**, **(M)**. As air flow rate increases, the flapper **(B)**, **(M)** deflects, allowing most of the inlet air to bypass the venturi section **(A)**. However, a proportion of the inlet air passes through the venturi, assuring that oil delivery increases linearly with increased air flow rate. This proportioning method is advantageous at low inlet air flows because the venturi design remains efficient.

The check ball **(E)** prevents reverse oil flow down the pickup tube when air flow stops. Thus, oil delivery can resume immediately when air flow restarts. Micro-mist Lubricators can only be filled when the air supply is shut off.

Micro-Mist Air Line Lubricators



MINIATURE

Pipe Ports	1/4"
*Flow SCFM	13

1 Ounce Bowl

	Poly Bowl/ No Drain	Metal Bowl/ Manual Drain
1/4"	F14L10G	F14L13G

Specifications

Body: Zinc

Bowls: Transparent Polycarbonate
Metal (Zinc) without Sight Gauge

Sight Dome: Polycarbonate

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
((See CAUTION on page 78)

Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Suggested Lubricant:

Parker F442P Oil

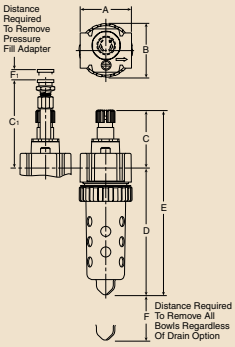
Petroleum based oil of 100 to 200 SSU viscosity at 100°F and an aniline point greater than 200°F. (DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

Lubricator Oil
1 Gallon F442002

Dimensions

Port Size	A	B	C	D
1/4"	1.68	3.65	1.64	1.61
	43mm	93mm	42mm	41mm

* SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.



SUBCOMPACT

Pipe Ports	1/8"	1/4"	3/8"
*Flow SCFM	23	40	40

2.0 Ounce Bowl
5 Micron Element
Removeable Non-Rising Knob

	Poly Bowl/ Metal Guard/ No Drain	Metal Bowl/ Sight Gauge/ Twist Drain
1/8"	F15L02N	F15L04N
1/4"	F15L12N	F15L14N
3/8"	F15L22N	F15L24N

Specifications

Body: Zinc

Bowls: Transparent Polycarbonate
Metal (Zinc) with Sight Gauge

Sight Dome: Polycarbonate

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)

Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Suggested Lubricant:

Parker F442P Oil

Petroleum based oil of 100 to 200 SSU viscosity at 100°F and an aniline point greater than 200°F. (DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

Lubricator Oil
1 Gallon F442002

Dimensions

Port Size	A	B	C	C_1	D	"D" w/ Metal Bowl & Twist Drain
1/8",	2.00	2.06	2.26	3.35	5.12	5.35
	51mm	52mm	57mm	85mm	130mm	136mm
1/4",	E	"E" w/ Metal Bowl & Twist Drain		F	F_1	
3/8"	7.38	7.61		1.77	.39	
	187mm	193mm		45mm	10mm	

* SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

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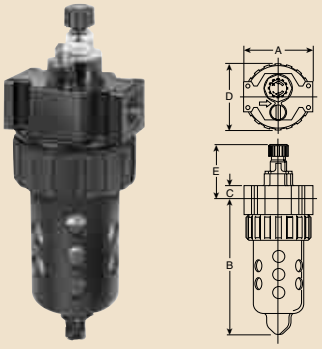
Oxford, MI



COMPACT

Pipe Ports	1/4"	3/8"	1/2"
*Flow SCFM	40	60	90

2.6 Ounce Bowl

	Poly Bowl/ Metal Guard/ No Drain	Metal Bowl/ Sight Gauge/ Twist Drain
1/4"	F16L12B	F16L14B
3/8"	F16L22B	F16L24B
1/2"	F16L32B	F16L34B

Specifications

Body: Zinc

Bowls: Transparent Polycarbonate
Metal (Zinc) with Sight Gauge

Sight Dome: Polycarbonate

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)

Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Suggested Lubricant:

Parker F442 Oil

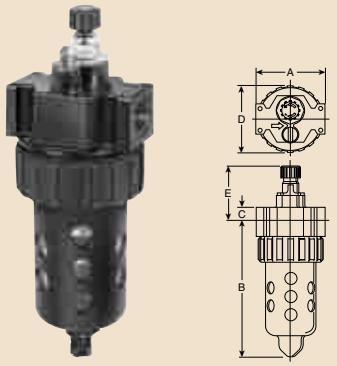
Petroleum based oil of 100 to 200 SSU viscosity at 100°F and an aniline point greater than 200°F. (DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

Lubricator Oil
1 Gallon F442002P

Dimensions

Port Size	A	B	"B" w/ Auto-Fill	C	D	E
1/4", 3/8", 1/2"	2.81	5.58	5.49	.53	2.74	2.24
	71mm	142mm	139mm	13mm	70mm	57mm

* SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.



STANDARD

Pipe Ports	3/8"	1/2"	3/4"
*Flow SCFM	60	90	90

4.9 Ounce Bowl

	Poly Bowl/ Metal Guard/ No Drain	Metal Bowl/ Sight Gauge/ Twist Drain
3/8"	F17L22B	F17L24B
1/2"	F17L32B	F17L34B
3/4"	F17L42B	F17L44B

Specifications

Body: Zinc

Bowls: Transparent Polycarbonate
Metal (Zinc) with Sight Gauge

Sight Dome: Polycarbonate

Temperature and Pressure Ratings:

Polycarbonate Bowl:
0 to 150 PSIG (0 to 10 bar)
32°F to 125°F (0°C to 52°C)
(See CAUTION on page 78)

Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Suggested Lubricant:

Parker F442 Oil

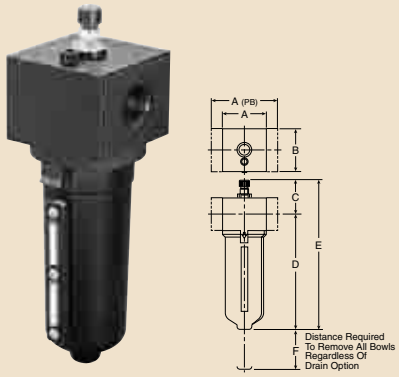
Petroleum based oil of 100 to 200 SSU viscosity at 100°F and an aniline point greater than 200°F. (DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

Lubricator Oil
1 Gallon F442002P

Dimensions

Port Size	A	B	"B" w/ Auto-Fill	C	D	E
3/8", 1/2", 3/4"	3.24	6.86	7.01	.70	3.25	2.41
	82mm	174mm	178mm	18mm	83mm	61mm

* SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.



HI-FLOW (Mist Style)

Pipe Ports	3/4"	1"	1-1/2"
*Flow SCFM	240	250	260

18 Ounce Bowl

	Metal Bowl/ Sight Gauge
Manual Drain (Twist)	
3/4"	FP3NLA96LSN
1"	FP3NLA98LSN
1-1/2"	FP3NLA9PLSN

Specifications

Body: Aluminum

Bowl: Metal (Aluminum) with Sight Gauge

Sight Dome: Polycarbonate

Temperature and Pressure Ratings:

Metal Bowl:
0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)

Suggested Lubricant:

Parker F442 Oil

Petroleum based oil of 100 to 200 SSU viscosity at 100°F and an aniline point greater than 200°F. (DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

Lubricator Oil
1 Gallon F442002P

Dimensions

Port Size	A	A(PB)	B	C	D	E	F
3/4", 1", 1-1/2"	3.62	5.59	3.62	2.81	9.00	11.81	4.92
	92mm	142mm	92mm	71.3mm	229mm	300mm	125mm

* SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

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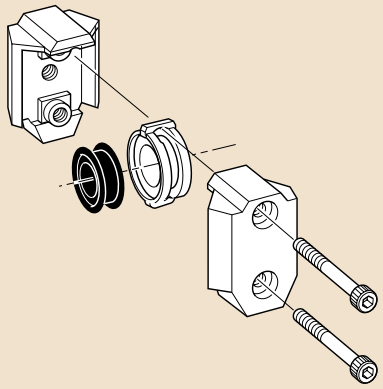
Modular Accessories

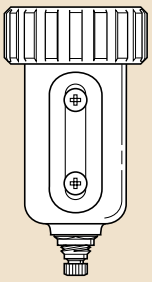


Body Connectors allow you to easily assemble and disassemble Modular Combinations.

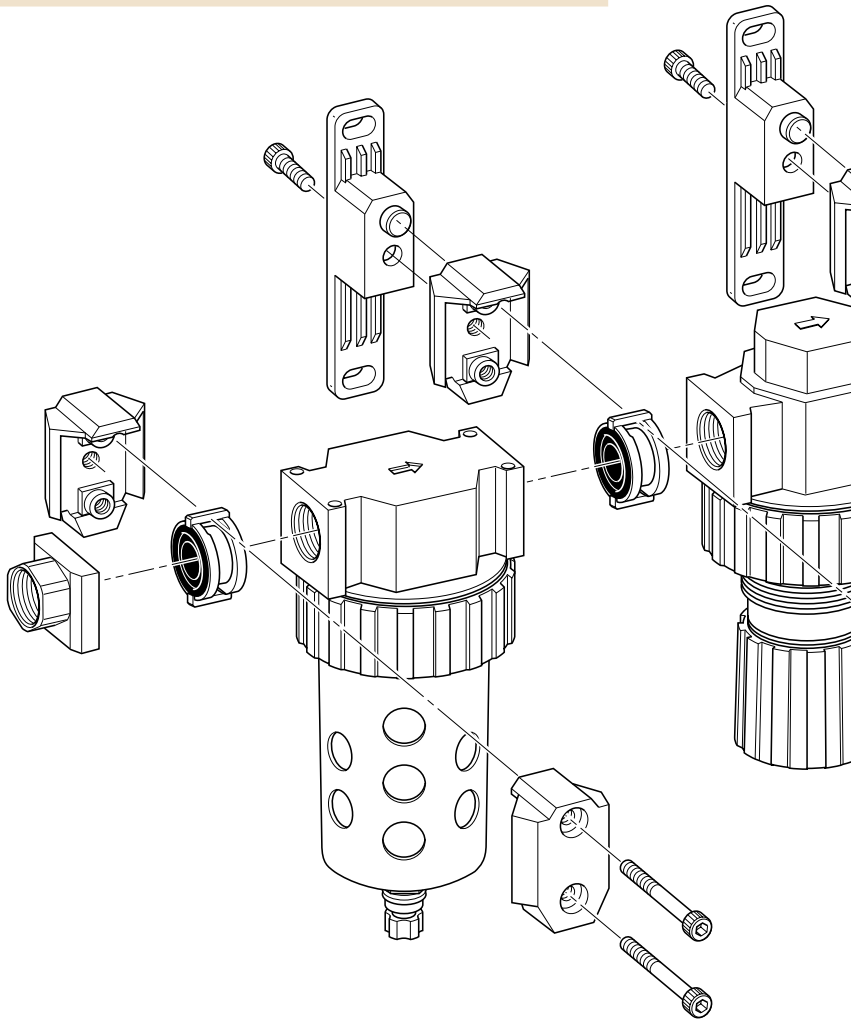
Each Kit includes one set.

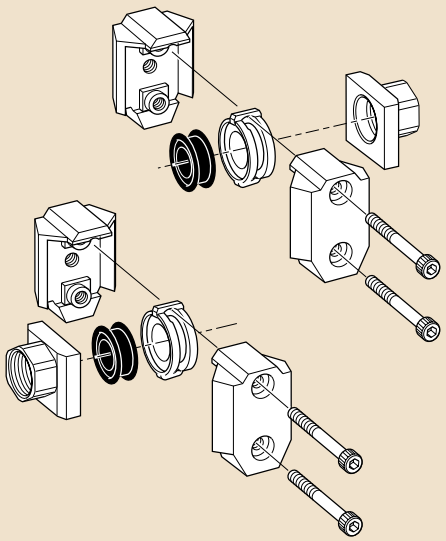
Body Connectors are required whenever you assemble two or more pieces together.

Series	Part Number
F05	PS954P
F06	PS754P
F07	PS854P



The flexible collar design allows for easy service and conversions. Metal bowls with sight gauge have 360° adjustment capability to allow viewing from any angle.

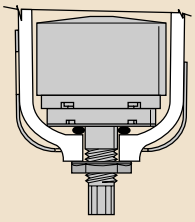




Port Block Connectors allow you to make threaded port connections to Modular units and are available in various port sizes to match your system requirements.

Each kit includes all the necessary pieces to make two port connections.

Port Size	F05	F06	F07
1/4"	PS95001P	PS750P	PS850P
3/8"	PS95002P	PS751P	PS851P
1/2"	N/A	PS752P*	PS852P
3/4"	N/A	N/A	PS853P
1/8"	PS95000P	N/A	N/A



Auto Drains allow unattended removal of liquids while providing a positive shutoff against leakage.

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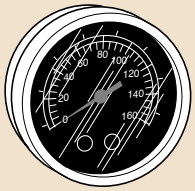
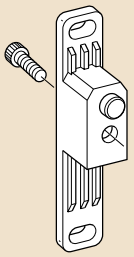


Pressure Gauges allow you to accurately monitor your system pressure. Two pressure ranges are available to better match you system requirements.

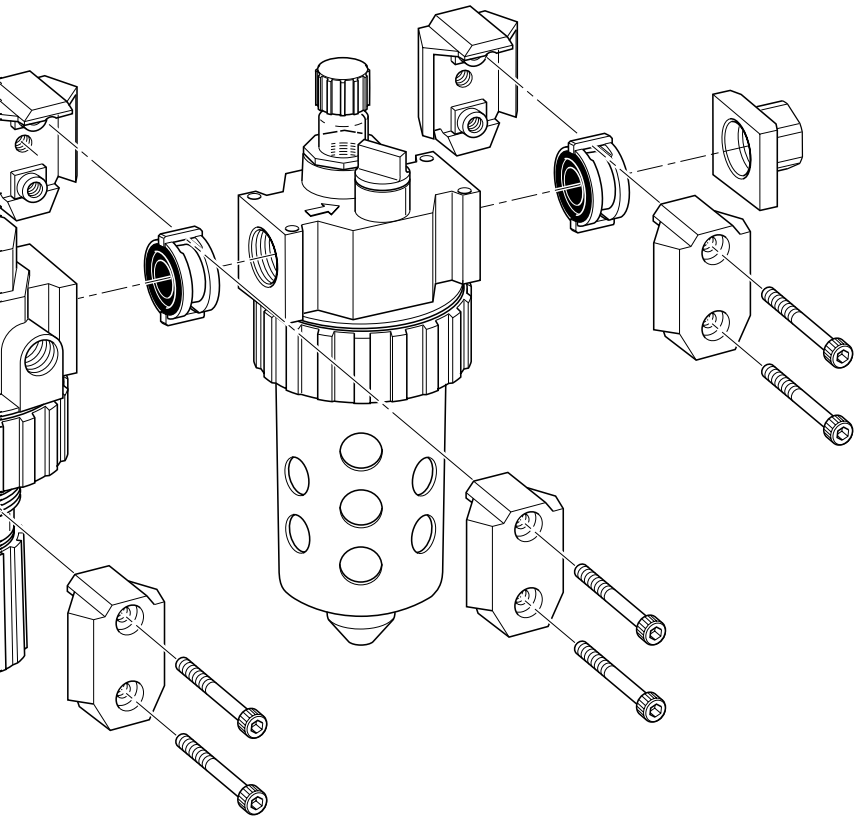
Range	Series	Part Number
0-60 PSIG	F05	P530154
	F06/F07	P781641
0-160 PSIG	F05	P77413
	F06/F07	P781642

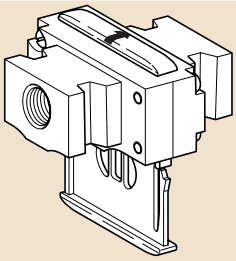


Wall Mounting Kits are available for mounting your Modular Assemblies and can be assembled and used with any standard body connector set. Since Modular Combinations are always identical in size, you can predrill for wall mounting on your equipment.

Kit includes 1 assembly.

Series	Part Number
F05	PS955P
F06 and F07	PS755P



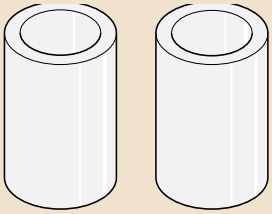


Patent Pending

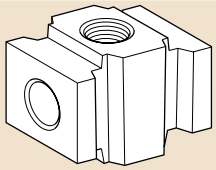
Lockout Valves provide positive shutoff and exhaust capability to isolate Modular units so they can be easily removed from the line and can be locked in a closed position. Center position can be used as a slow start.

NOTE: Body Connectors are not supplied with Lockout Valves.

Series	Porting	Part Number
F05	1/4"	PS95701P
F06	3/8"	PS756P
F07	1/2"	PS856P



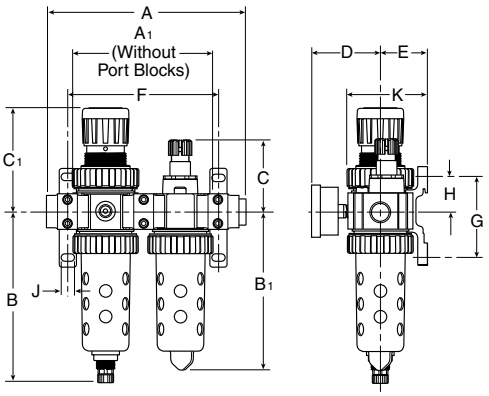
High efficiency depth and coalescing filtration for the most demanding applications. Available in .01, .7 and 5 micron sizes.



A Modular Manifold Block can be used between any two Modular units to give additional outlet ports. The Manifold Block provides 2 additional outlets in 3/8" and 1/2" sizes. Any standard pipe plug can be used to close off unused ports.**NOTE:** Body Connectors are not supplied with Manifold Blocks.

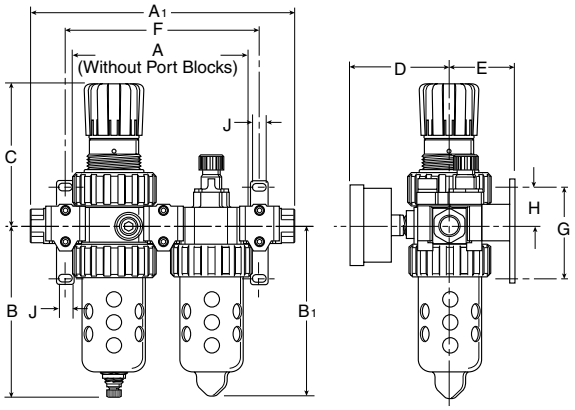
Series	Porting	Part Number
F05	1/4"	PS95701P
F06	3/8"	PS757
F07	1/2"	PS857

Modular Combinations – 2-Unit Dimensions



F15H

Mounting Brackets and Gauge Not Included



F16H / F17H

2-Unit Modular Combo:

Series	A	A_1	B	B_1	C	D	E	F	G	H	J (Slot)	K
F15H	6.38 162mm	4.33 110mm	5.35 136mm	5.12 130mm	2.24 57mm	2.05 52mm	1.45 37mm	4.72 120mm	2.60 66mm	1.14 29mm	.280 x .430 7mm x 11mm	2.47 63mm
F16H	6.10 155mm	9.04 230mm	5.69 145mm	5.58 142mm	4.75 121mm	3.18 81mm	2.06 27mm	6.65 169mm	3.58 91mm	1.40 36mm	.280 x .500 7mm x 13mm	—
F17H	7.00 178mm	10.28 261mm	6.97 177mm	6.86 174mm	4.79 122mm	3.44 87mm	2.18 55mm	7.51 191mm	3.58 91mm	1.40 36mm	.280 x .500 7mm x 13mm	—

Polycarbonate Units

Filters – Poly Bowl/Bowl Guard/Manual Drain
Regulators – 125 PSIG Spring/No Gauge
Lubricators – Micro-Mist Style/Poly Bowl/Bowl Guard/No Drain

Modular Assembly Without Port Blocks

Series / Port Size	2-Piece Assembly
F05 Series	
1/8" NPT	F15H02B13A2N
1/4" NPT	F15H12B13A2N
3/8" NPT	F15H22B13A2N
F06 Series	
1/4" NPT	F16H12B13A2B
3/8" NPT	F16H22B13A2B
F07 Series	
3/8" NPT	F17H22B13A2B
1/2" NPT	F17H32B13A2B
3/4" NPT	F17H42B13A2B

Modular Assembly With Port Blocks

Series / Port Size	2-Piece Assembly
F05 Series	
1/8" NPT	F15H02B13A2N*G
1/4" NPT	F15H12B13A2N*G
3/8" NPT	F15H22B13A2N*G
F06 Series	
1/4" NPT	F16H12B13A2B*G
3/8" NPT	F16H22B13A2B*G
1/2" NPT	F16H32B13A2B*G
F07 Series	
3/8" NPT	F17H22B13A2B*G
1/2" NPT	F17H32B13A2B*G
3/4" NPT	F17H42B13A2B*G

Metal Bowl Units

Filters – Metal Bowl/Sight Gauge/Manual Drain
Regulators – 125 PSIG Spring/No Gauge
Lubricators – Micro-Mist Style/Metal Bowl/Sight Gauge/Twist Drain

Modular Assembly Without Port Blocks

Series / Port Size	2-Piece Assembly
F05 Series	
1/8" NPT	F15H04B13A4ND
1/4" NPT	F15H14B13A4ND
3/8" NPT	F15H24B13A4ND
F06 Series	
1/4" NPT	F16H14B13A4B
3/8" NPT	F16H24B13A4B
F07 Series	
3/8" NPT	F17H24B13A4B
1/2" NPT	F17H34B13A4B
3/4" NPT	F17H44B13A4B

Modular Assembly With Port Blocks

Series / Port Size	2-Piece Assembly
F05 Series	
1/8" NPT	F15H04B13A4N*G
1/4" NPT	F15H14B13A4N*G
3/8" NPT	F15H24B13A4N*G
F06 Series	
1/4" NPT	F16H14B13A4B*G
3/8" NPT	F16H24B13A4B*G
1/2" NPT	F16H34B13A4B*G
F07 Series	
3/8" NPT	F17H24B13A4B*G
1/2" NPT	F17H34B13A4B*G
3/4" NPT	F17H44B13A4B*G

Options For Modular Combinations and Close Nippled Combinations

1. For poly units with automatic drain and bowl guard, change the 6th space from a "2" to an "6". *Example:* F16H1**6**B13A2B
2. For metal bowl units with automatic drain and sight gauge, change the 6th space from a "4" to an "8". *Example:* F16H1**8**B13A4B

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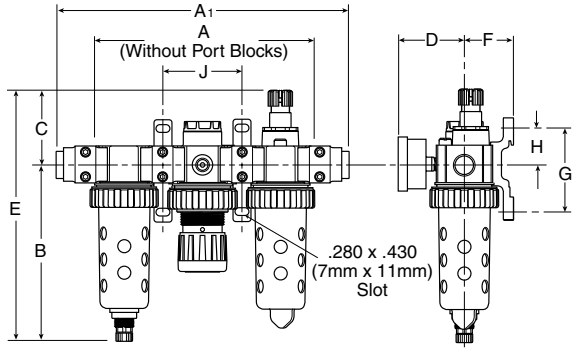
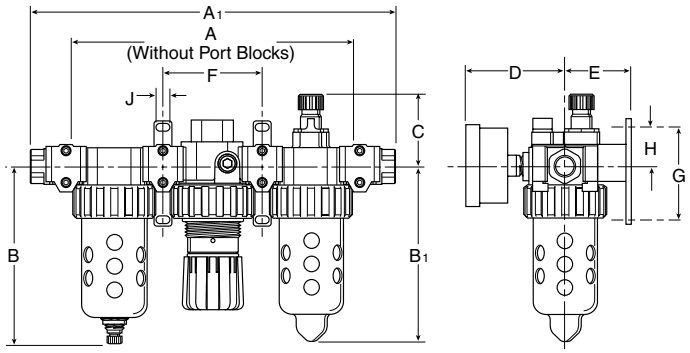
Oxford, MI

Modular Combinations – 3-Unit Dimensions



F15B



F16B/ F17B

Mounting Brackets and Gauge Not Included

3-Unit Modular Combo:

Series	A	A_1	B	B_1	C	C_1	D	E	F	G	H	J (Slot)	K
F15B	8.72 222mm	6.70 170mm	5.35 136mm	5.12 130mm	2.24 57mm	3.15 80mm	2.05 52mm	1.45 37mm	2.35 60mm	2.60 66mm	1.14 29mm	.280 x .430 7mm x 11mm	2.47 63mm
F16B / F21B	9.46 240mm	12.39 315mm	5.69 145mm	5.58 142mm	2.24 57mm	—	3.18 81mm	2.06 27mm	3.33 85mm	3.58 91mm	1.40 36mm	.280 x .500 7mm x 13mm	—
F17B / F22B	10.75 273mm	14.03 356mm	6.97 177mm	6.86 174mm	2.41 61mm	—	3.44 87mm	2.18 55mm	3.76 96mm	3.58 91mm	1.40 36mm	.280 x .500 7mm x 13mm	—

Polycarbonate Units

Filters – Poly Bowl/Bowl Guard/Manual Drain
Regulators – 125 PSIG Spring/No Gauge
Lubricators – Micro-Mist Style/Poly Bowl/Bowl Guard/No Drain

Modular Assembly Without Port Blocks

Series / Port Size		3-Piece Assembly
F05 Series	1/8" NPT	F15B02B13A2N
	1/4" NPT	F15B12B13A2N
	3/8" NPT	F15B22B13A2N
F06 Series	1/4" NPT	F16B12B13A2B
	3/8" NPT	F16B22B13A2B
F07 Series	3/8" NPT	F17B22B13A2B
	1/2" NPT	F17B32B13A2B
	3/4" NPT	F17B42B13A2B
F11 Series	1/4" NPT	F21B12E13A2B
	3/8" NPT	F21B22E13A2B
F12 Series	3/8" NPT	F22B22E13A2B
	1/2" NPT	F22B32E13A2B
	3/4" NPT	F22B42E13A2B

Modular Assembly With Port Blocks

Series / Port Size		3-Piece Assembly
F05 Series	1/8" NPT	F15B02B13A2N*G
	1/4" NPT	F15B12B13A2N*G
	3/8" NPT	F15B22B13A2N*G
F06 Series	1/4" NPT	F16B12B13A2B*G
	3/8" NPT	F16B22B13A2B*G
	1/2" NPT	F16B32B13A2B*G
F07 Series	3/8" NPT	F17B22B13A2B*G
	1/2" NPT	F17B32B13A2B*G
	3/4" NPT	F17B42B13A2B*G
F11 Series	1/4" NPT	F21B12E13A2B*G
	3/8" NPT	F21B22E13A2B*G
F12 Series	3/8" NPT	F22B22E13A2B*G
	1/2" NPT	F22B32E13A2B*G
	3/4" NPT	F22B42E13A2B*G

Metal Bowl Units

Filters – Metal Bowl/Sight Gauge/Manual Drain
Regulators – 125 PSIG Spring/No Gauge
Lubricators – Micro-Mist Style/Metal Bowl/Sight Gauge/Twist Drain

Modular Assembly Without Port Blocks

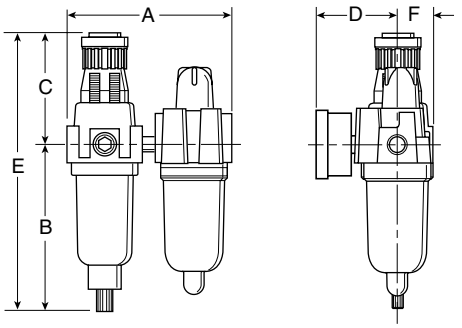
Series / Port Size		3-Piece Assembly
F05 Series	1/8" NPT	F15B04B13A4N
	1/4" NPT	F15B14B13A4N
	3/8" NPT	F15B24B13A4N
F06 Series	1/4" NPT	F16B14B13A4B
	3/8" NPT	F16B24B13A4B
F07 Series	3/8" NPT	F17B24B13A4B
	1/2" NPT	F17B34B13A4B
	3/4" NPT	F17B44B13A4B
FP3N Series	3/4" NPT	FP3NCB96SEMNNLNA
	1" NPT	FP3NCB98SEMNNLNA
F11 Series	1/4" NPT	F21B12E13A4B
	3/8" NPT	F21B22E13A4B
F12 Series	3/8" NPT	F22B22E13A4B
	1/2" NPT	F22B32E13A4B
	3/4" NPT	F22B42E13A4B

Modular Assembly With Port Blocks

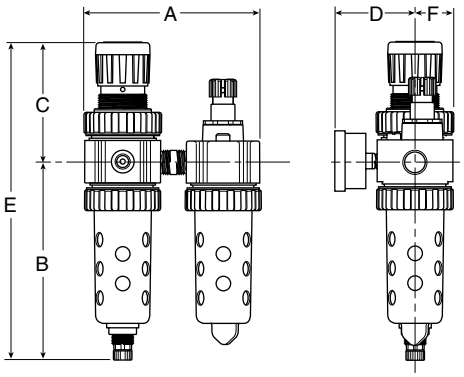
Series / Port Size		3-Piece Assembly
F05 Series	1/8" NPT	F15B04B13A4N*G
	1/4" NPT	F15B14B13A4N*G
	3/8" NPT	F15B24B13A4N*G
F06 Series	1/4" NPT	F16B14B13A4B*G
	3/8" NPT	F16B24B13A4B*G
	1/2" NPT	F16B34B13A4B*G
F07 Series	3/8" NPT	F17B24B13A4B*G
	1/2" NPT	F17B34B13A4B*G
	3/4" NPT	F17B44B13A4B*G
FP3N Series	3/4" NPT	FP3NCB9HSEMNNLNA
	1" NPT	FP3NCB9MSEMNNLNA
	1 1/2" NPT	FP3NCB9PSEMNNLNA
F11 Series	1/4" NPT	F21B14E13A4B*G
	3/8" NPT	F21B24E13A4B*G
F12 Series	3/8" NPT	F22B24E13A4B*G
	1/2" NPT	F22B34E13A4B*G
	3/4" NPT	F22B44E13A4B*G

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Close Nippled Combinations – 2-Unit Dimensions



F15G



F16G / F17G

2-Unit Close Nippled:

Series	A	B	B_1	C	D	E
F14G	3.58	3.79	—	6.21	2.07	—
	91mm	96mm	—	158mm	53mm	—
F15G	4.49	5.35	5.12	3.15	2.05	1.03
	114mm	136mm	130mm	80mm	52mm	26mm
F16G/F21G	6.13	5.69	5.58	4.75	3.18	1.37
	156mm	145mm	142mm	121mm	81mm	35mm
F17G/F22G	6.99	6.97	6.86	4.79	3.44	1.63
	178mm	177mm	174mm	122mm	87mm	41mm

Mounting Brackets and Gauge Not Included

Polycarbonate Units

Filters – Poly Bowl/Bowl Guard/Manual Drain
Regulators – 125 PSIG Spring/No Gauge
Lubricators – Micro-Mist Style/Poly Bowl/Bowl Guard/No Drain

Series / Port Size	2-Piece Assembly
F14 Series 1/4" NPT	F14G11B13F0G
NOTE: Bowl guards not available on F14 Series.	
F05 Series 1/8" NPT	F15G02B13A2N
1/4" NPT	F15G12B13A2N
3/8" NPT	F15G22B13A2N
F06 Series 1/4" NPT	F16G12B13A2B
3/8" NPT	F16G22B13A2B
1/2" NPT	F16G32B13A2B
F07 Series 3/8" NPT	F17G22B13A2B
1/2" NPT	F17G32B13A2B
3/4" NPT	F17G42B13A2B

Metal Bowl Units

Filters – Metal Bowl/Sight Gauge/Manual Drain
Regulators – 125 PSIG Spring/No Gauge
Lubricators – Micro-Mist Style/Metal Bowl/Sight Gauge/Twist Drain

Series / Port Size	2-Piece Assembly
F14 Series 1/4" NPT	F14G13B13F3G
NOTE: Sight gauges not available on F14 Series.	
F05 Series 1/8" NPT	F15G04B13A4N
1/4" NPT	F15G14B13A4N
3/8" NPT	F15G24B13A4N
F06 Series 1/4" NPT	F16G14B13A4B
3/8" NPT	F16G24B13A4B
1/2" NPT	F16G34B13A4B
F07 Series 3/8" NPT	F17G24B13A4B
1/2" NPT	F17G34B13A4B
3/4" NPT	F17G44B13A4B

Options For Modular Combinations and Close Nippled Combinations

1. For poly units with automatic drain and bowl guard, change the 6th space from a "2" to an "6". *Example:* F16G1**6**B13A2B
2. For metal bowl units with automatic drain and sight gauge, change the 6th space from a "4" to an "8". *Example:* F16G1**8**B13A4B

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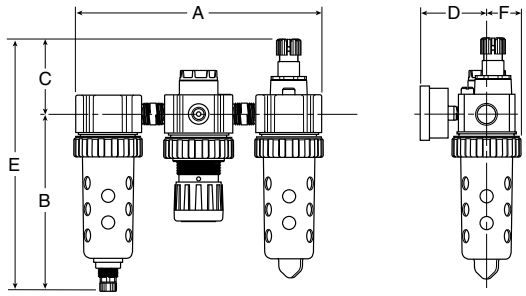
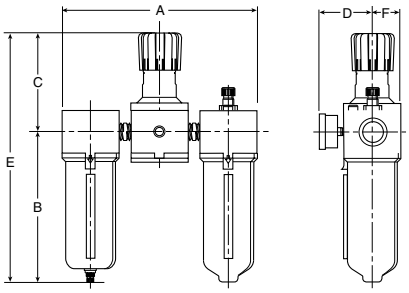
Filtration and Separation Division
Oxford, MI

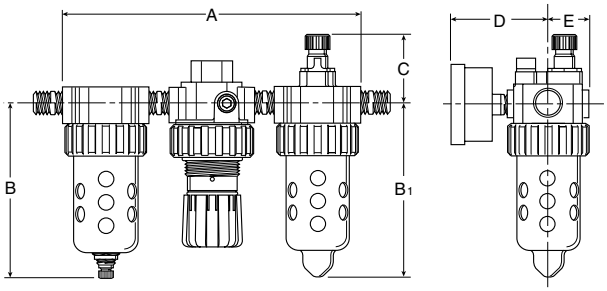
Close Nippled Combinations – 3-Unit Dimensions



F15A



FP3N



F16A / F17A

3-Unit Close Nippled:

Series	A	B	B_1	C	D	E	F
F14A	5.77	3.82	—	1.64	1.99	—	—
	147mm	97mm	—	42mm	51mm	—	—
F15A	7.00	5.35	—	2.24	2.05	1.03	—
	178mm	136mm	—	57mm	52mm	26mm	—
F16A/F21A	9.45	5.69	5.58	2.24	3.18	1.37	—
	240mm	145mm	142mm	57mm	81mm	35mm	—
F17A/F22A	10.74	6.97	6.86	2.41	3.44	1.63	—
	273mm	177mm	174mm	61mm	87mm	41mm	—
FP3N	11.89	9.57	—	6.38	3.56	15.95	1.81
	302mm	343mm	—	162mm	90mm	405mm	50mm

Polycarbonate Units

Filters – Poly Bowl/Bowl Guard/Manual Drain
Regulators – 125 PSIG Spring/No Gauge
Lubricators – Micro-Mist Style/Poly Bowl/Bowl Guard/No Drain

Series / Port Size	3-Piece Assembly
F14 Series 1/4" NPT	F14A11B13F0G
NOTE: Bowl guards not available on F14 Series.	
F05 Series 1/8" NPT	F15A02B13A2N
1/4" NPT	F15A12B13A2N
3/8" NPT	F15A22B13A2N
F06 Series 1/4" NPT	F16A12B13A2B
3/8" NPT	F16A22B13A2B
1/2" NPT	F16A32B13A2B
F07 Series 3/8" NPT	F17A22B13A2B
1/2" NPT	F17A32B13A2B
3/4" NPT	F17A42B13A2B
F11 Series 1/4" NPT	F21A12B13A2B
3/8" NPT	F21A22B13A2B
F12 Series 3/8" NPT	F22A22B13A2B
1/2" NPT	F22A32E13A2B
3/4" NPT	F22A42E13A2B

Metal Bowl Units

Filters – Metal Bowl/Sight Gauge/Manual Drain
Regulators – 125 PSIG Spring/No Gauge
Lubricators – Micro-Mist Style/Metal Bowl/Sight Gauge/Twist Drain

Series / Port Size	3-Piece Assembly
F14 Series 1/4" NPT	F14A13B13F3G
NOTE: Sight gauges not available on F14 Series.	
F05 Series 1/8" NPT	F15A04B13A4N
1/4" NPT	F15A14B13A4N
3/8" NPT	F15A24B13A4N
F06 Series 1/4" NPT	F16A14B13A4B
3/8" NPT	F16A24B13A4B
1/2" NPT	F16A34B13A4B
F07 Series 3/8" NPT	F17A24B13A4B
1/2" NPT	F17A34B13A4B
3/4" NPT	F17A44B13A4B
FP3N Series 3/4" NPT	FP3N3B96SEMNNLNA
1" NPT	FP3N3B98SEMNNLNA
1-1/2" NPT	FP3N3B9PSEMNNLNA
F11 Series 1/4" NPT	F21A14E13A4B
3/8" NPT	F21A24E13A4B
F12 Series 3/8" NPT	F22A24E13A4B
1/2" NPT	F22A34E13A4B
3/4" NPT	F22A44E13A4B

Options For Modular Combinations and Close Nippled Combinations

1. For poly units with automatic drain and bowl guard, change the 6th space from a "2" to an "6". *Example:* F16G1**6**B13A2B
2. For metal bowl units with automatic drain and sight gauge, change the 6th space from a "4" to an "8". *Example:* F16G1**8**B13A4B

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Product Accessories & Kits

FILTERS Model	F14E/F14F	F05E/F05F	F06E	F07E	F06F	F07F	FP3NF
Drain Kit – Automatic Drain	——	PS998P	PS506P	PS506P	PS506P	PS506P	PS506P
Bowl Guard Kit	——	PS905P	PS705P	PS805P	PS705P	PS805P	——
Bowl Kits –							
Poly Bowl – Twist Drain	PS404P	PS932P	PS732P	PS832P	PS732P	PS832P	——
Metal Bowl – Sight Gauge/Twist Drain	——	PS935P	PS735P	PS835P	PS735P	PS835	FP3NKA00BSM
Filter Element Kits – 40 Micron	PS401	PS901P	PS701	PS801	PS701	PS801	FP3NKA00ESG
5 Micron	PS403	PS902P	PS702	PS802	PS702	PS802	FP3NKA00ESE
Mounting Bracket Kit	PS417BP*	PS943P	PS707P*	PS807P*	PS743P	PS843P	FP3NKA00MW

COALESCING FILTERS Model	Q*S/H*S	F11F	F12F	F15F
Filter Element Kits – Grade 6	6HM06-013	PS724	PS824	PS924P
Grade 10	10HM06-013	PS730	PS830	PS930P
Mounting Bracket Kit	——	PS743P	PS843P	PS943P

REGULATORS Model	F14R / F14E	F05R / F05E	F06R / F06E	F11R	F07R / F07E	F12R	FP3NR
Gauges – 60 PSIG	P530154	P530154	P781641	P781641	P781641	P781641	P781641
160 PSIG	P77413	P77413	P781642	P781642	P781642	P781642	P781642
Mounting Bracket Kit	PS417BP*	PS943P*	PS707P*	PS707P*	PS807P*	PS807P*	FP3NKA00MW
Panel Mount Nut – Plastic	P78652	PS964P†	P04082	P04082	P04082	P04082	P04082
Springs – 2-125 PSIG Range	P01173	P04425	P04063	——	P04063	——	P78696B
Tamperproof Kit	——	——	PS737P	——	PS737P	——	PS606P

LUBRICATOR Model	F14L	F15L	F16L	F17L	FP3NL
Bowl Guard Kit	——	PS905P	PS705P	PS805P	——
Bowl Kits — **Poly Bowl** – without Drain Kit	PS421P	PS946P	PS746P	PS846P	——
Metal Bowl – Sight Gauge/Twist Drain	PS447BP	PS929P	PS729P	PS829P	FP3NKA00BSM
Mountlng Bracket Kit	PS417BP*	PS943P	PS743P	PS843P	FP3NKA00MW
Pressure Fill Adapter Kit	——	PS916P	PS716P	PS716P	FP3NKA00PK

MODULAR ACCESSORIES Model	F05/F15	F06/F16/F21	F07/F17/F22
Port Block Connectors - 1/8"	PS95000P	——	——
1/4"	PS95001P	PS750P	PS850P
3/8"	PS95002P	PS751P	PS851P
1/2"	——	PS752P	PS852P
3/4"	——	——	PS853P
Modular Body Connectors	PS954P	PS754P	PS854P
Wall Mounting Kits	PS955P	PS755P	PS755P
Lockout Valves - Locking Type	PS95601P	PS756P	PS856P
Manifold Block - 1/4"	PS95701	——	——
3/8"	——	PS757	——
1/2"	——	——	PS857

* Panel Mount Nut Included.
† Panel Mount Nut – Metal

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Air Line Accessories

Timed Drain Valve (TV-25/TV-50)

Features

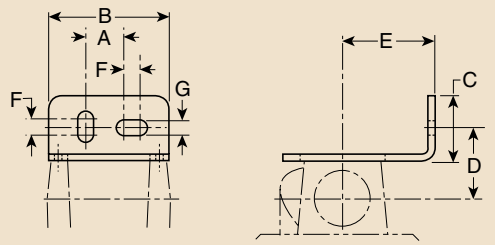
- 300 (20 bar) PSIG with 700 (48 bar) PSIG available
- Compact design
- Temperature 210°F (99°C)

Metal Sump Drain (MS-50)

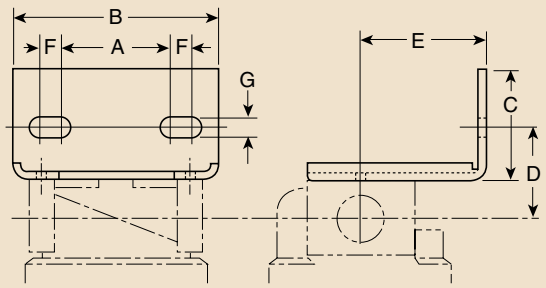
Features

- Auto-drain ported 1/8" to pipe away liquid
- Drain has manual override
- Easily serviced without tools
- 10-250 PSIG range
- Compact size

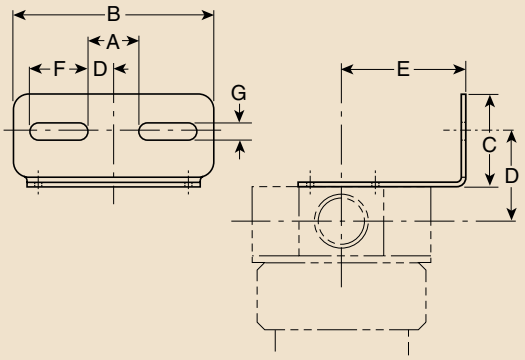
Mounting Bracket Kits



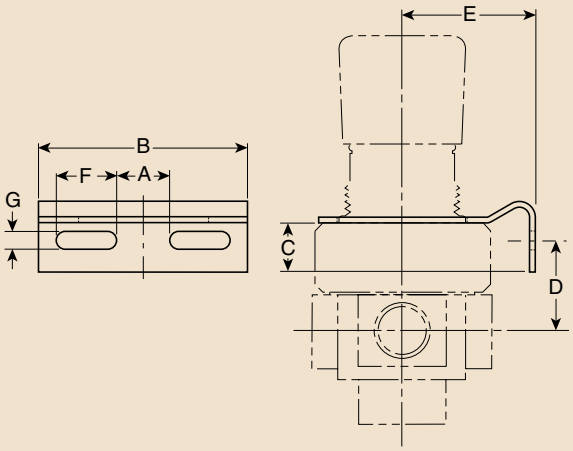
PS417BP



FP3NKA00MW



PS743P, PS843P



PS707P, PS807P
PS963P

Dimensions

	A	B	C	D	E	F	G	Kit
inches	.54	1.80	1.00	1.50	1.35	.28	.22	**PS417BP** (F14F, F14E, F14L, F14R)
mm	14	46	25	38	34	7	6	
inches	.84	3.25	1.50	1.44	2.00	.94	.28	**PS743P** (F06F, F11F, F16L)
mm	21	83	38	37	51	24	7	
inches	1.00	3.94	1.57	1.68	2.19	1.25	.28	**PS843P** (F07F, F12F, F17L)
mm	25	100	40	43	56	32	7	
inches	6.22	8.19	2.75	1.97	2.36	1.77	1.30	**FP3NKA00MW** (FP3NF, FP3NR, FP3NL)
mm	158	208	70	50	80	45	33	
inches	.84	3.26	.77	1.46	2.00	.94	.28	**PS707P** (F06R, F06E, F11R)
mm	21	83	20	37	51	24	7	
inches	1.00	3.94	.65	1.48	2.19	1.25	.28	**PS807P** (F07R, F07E, F12R)
mm	25	100	17	43	56	32	7	
inches	.84	2.59	.49	1.02	1.85	.61	.28	**PS963P** (F05R, F05E)
mm	21	66	13	26	47	15	7	

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Stainless Steel Air Preparation Units

Filters, Regulators and Lubricators

Bulletin 1300 - 775/USA

Finite®

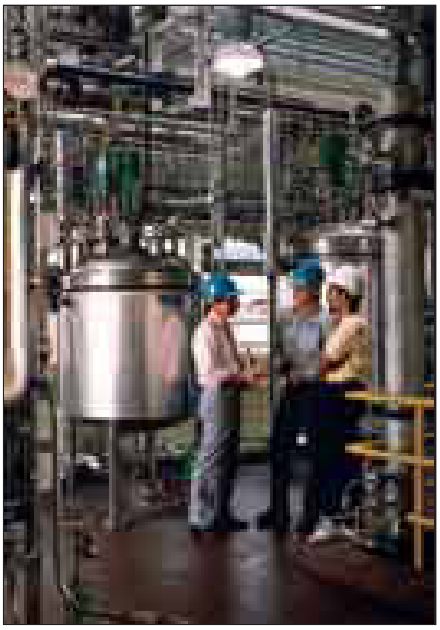
Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

1/4" and 1/2" Stainless Steel Filters, Regulators, Lubricators:

Performance you can count on!

Parker Hannifin has specifically designed a line of 316 Stainless Steel Filter, Regulator, Lubricator (FRL) components that meet NACE specifications and handle the toughest and most corrosive environments. The regulator diaphragm to valve area ratio is large to assure precise pressure regulation and high flow capacity.

Of the major American FRL manufacturers, Parker provides the most comprehensive line of miniature Stainless Steel components and has installed stainless steel FRLs worldwide. We use the latest techniques in design and manufacturing to meet today's stringent standards. You are assured of outstanding performance and long life from the stainless steel FRLs offered by Finite, thanks to our high quality materials, tough quality control checks and decades of experience in manufacturing FRLs.



Stainless Steel FRLs in this pharmaceutical plant are used for valve protection and lubrication at point of use applications.

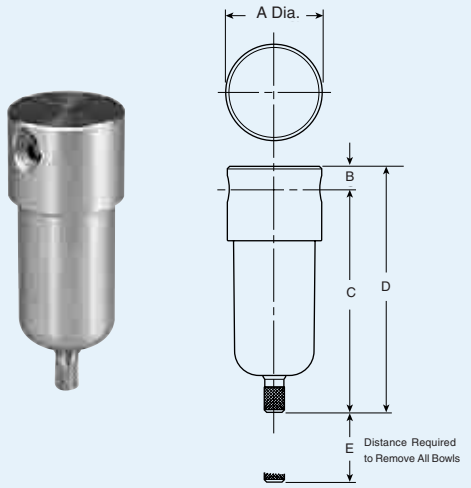
Applications

- Marine and Offshore Facilities
- Chemical and Petroleum Plants
- Process Industries
- Pollution Control
- Instrumentation
- Medical
- Pulp and Paper Products
- Research Labs
- Wastewater Treatment

This oil refinery uses stainless steel filters, regulators and lubricators for protecting instrumentation and pneumatic equipment in corrosive environments.

Air Line Miniature Filter

FF504-02DGSS



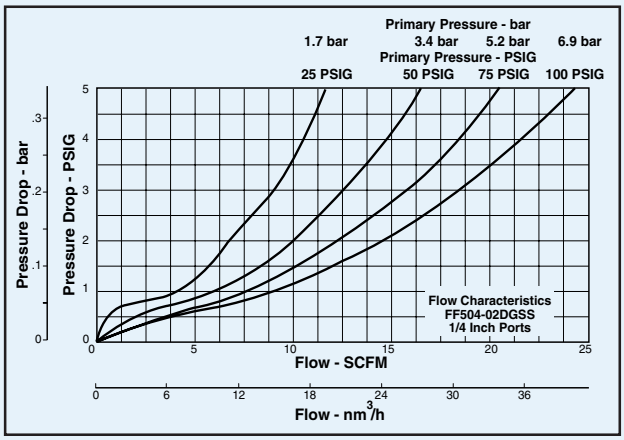
Dimensions

A	B	C	D	E
1.56	.31	3.69	4.00	1.58
40mm	8mm	94mm	102mm	40mm

Specifications:
Flow: 23 SCFM
Port Size: 1/4" NPT
Drain: Manual
Filter Rating: 5 micron
Maximum Pressure: 300 PSIG (20.7 bar)
Maximum Temperature: 180°F (82°C)
Weight: 0.6 lbs
Bowl Capacity: 1 oz.

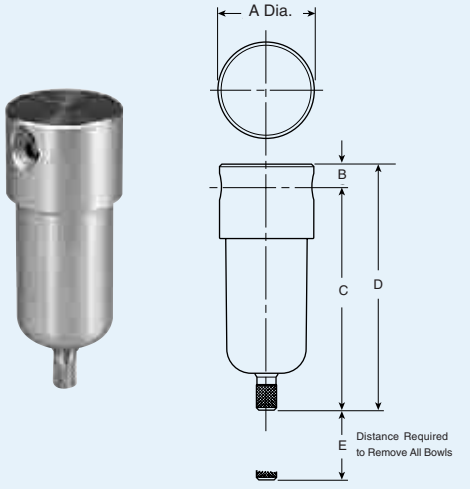
Materials of Construction:
Body: 316 Stainless Steel
Bowl: 316 Stainless Steel
Seals: Fluorocarbon
Element: Polyethylene
Retainer: Acetal
Drain: 316 Stainless Steel

Performance Data:



Coalescing Miniature Filter

FF501-02DHSS



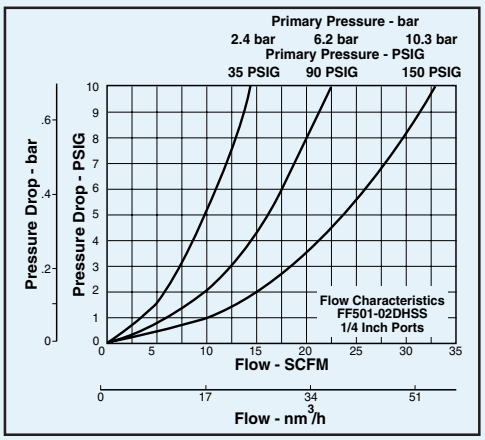
Dimensions

A	B	C	D	E
1.56	.31	3.69	4.00	1.58
40mm	8mm	94mm	102mm	40mm

Specifications:
Flow: 8 SCFM @ 100 PSIG inlet with 1.5 PSIG drop
Port Size: 1/4" NPT
Drain: Manual
Coalescing Efficiency: 99.97%
Maximum Pressure: 300 PSIG (20.7 bar)
Maximum Temperature: 180°F (82°C)
Weight: 0.6 lbs
Bowl Capacity: 1 oz.

Materials of Construction:
Body: 316 Stainless Steel
Bowl: 316 Stainless Steel
Seals: Fluorocarbon
Element: Borosilicate Glass Fibers
End Caps: Nylon
Drain: 316 Stainless Steel
Replacement Elements: 6HM06-013 x 10

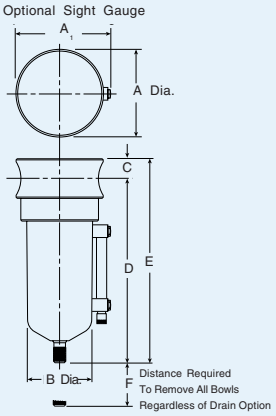
Performance Data:



Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Air Line Filter

FF10-04DGSS



Dimensions

A	A_1	B	C	D	E	F
2.38	2.50	1.75	.56	5.00	5.56	2.12
60mm	64mm	44mm	14mm	127mm	141mm	54mm

Specifications:

Flow: 72 SCFM
Port Size: 1/2" NPT
Maximum Pressure: 300 PSIG (20.7 bar)
Maximum Temperature: 180°F (82°C)
Weight: 1.88 lbs.
Drain: Manual
Filter Rating: 5 micron
Bowl Capacity: 4 oz.

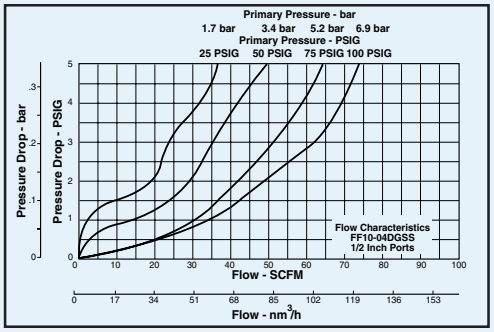
Materials of Construction:

Body: 316 Stainless Steel
Bowl: 316 Stainless Steel
Seals: Fluorocarbon
Vane Plate: Acetal
Element: Polyethylene
Retainer: Acetal
Drain: 316 Stainless Steel

Available Options:

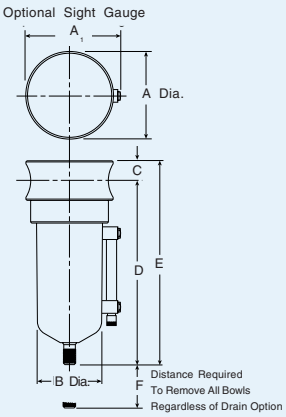
Part Number	Auto Drain	Sight Glass
FF10-04DGSS		
FF10-04WGSS		✔
FF10-04DGRSS	✔	
FF10-04WGRSS	✔	✔

Performance Data:



Coalescing Filter

FF11-04DJSS



Dimensions

A	A_1	B	C	D	E	F
2.38	2.50	1.75	.56	5.00	5.56	2.12
60mm	64mm	44mm	14mm	127mm	141mm	54mm

Specifications:

Flow: 16.5 SCFM @ 100 PSIG inlet with 1.5 PSIG drop
Port Size: 1/2" NPT
Maximum Pressure: 300 PSIG (20.7 bar)
Maximum Temperature: 180°F (82°C)
Weight: 1.88 lbs
Drain: Manual
Coalescing Efficiency: 99.97%
Bowl Capacity: 4 oz.

Materials of Construction:

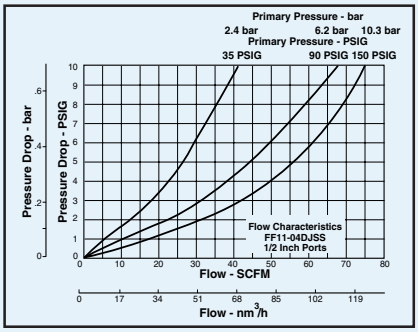
Body: 316 Stainless Steel
Bowl: 316 Stainless Steel
Seals: Fluorocarbon
Element: Borosilicate Glass Fiber
End Caps: Nylon
Drain: 316 Stainless Steel

Replacement Elements: 6HM07-019 x 10

Available Options:

Part Number	Auto Drain	Sight Glass
FF11-04DJSS		
FF11-04WJSS		✔
FF11-04DJRSS	✔	
FF11-04WRSS	✔	✔

Performance Data:



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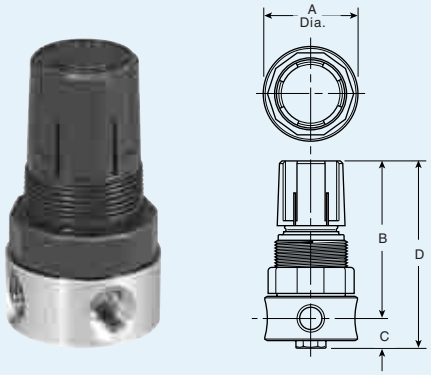
Oxford, MI

Miniature Regulator

FR364-02CSS



Specifications:

Dimensions

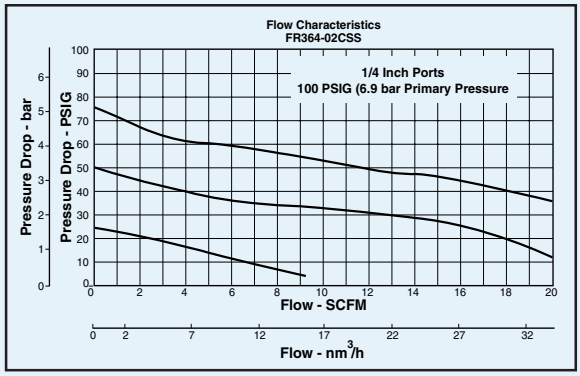
A	B	C	D
1.56	2.56	.50	3.06
40mm	65mm	13mm	78mm

Flow: 16 SCFM
Port Size: 1/4" NPT
Gauge Port: 1/4" NPT
Outlet Pressure Range: 0-125 PSIG (0-8.5 bar) std.
Max Inlet Pressure: 300 PSIG (20.7 bar)
Temperature Range: 40-150°F (4.4-65.6°C)
Weight: 0.5 lbs
Operation: Fluorocarbon Diaphragm
Relieving: Standard (non-relieving optional)

Materials of Construction:

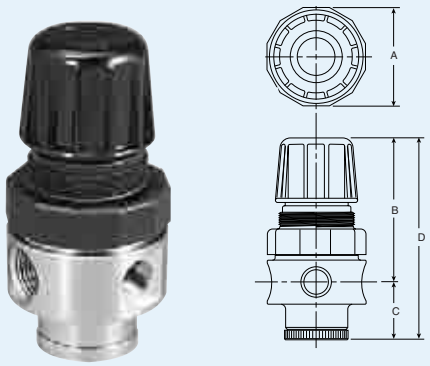
Body: 316 Stainless Steel
Spring Cage: Celcon
Inner Valve: 316 Stainless Steel
Bottom Plug: 316 Stainless Steel
Seals: Fluorocarbon
Adjustment Mechanism:
316 Stainless Steel Spring and
316 Stainless Steel Adjusting Screw

Performance Data:



Regulator

FR10-04CSS



Specifications:

Dimensions

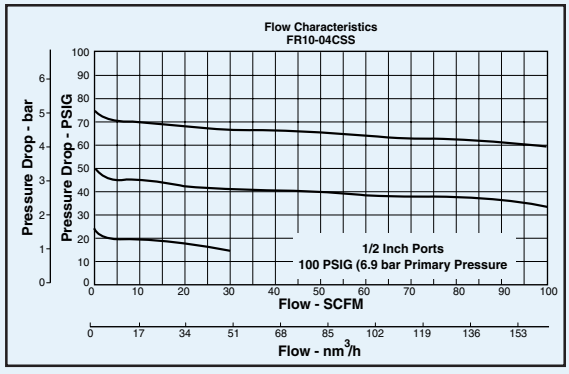
A	B	C	D
2.34	3.59	1.38	4.97
60mm	91mm	35mm	126mm

Flow: 80 SCFM
Port Size: 1/2" NPT
Gauge port: 1/4" NPT
Outlet Pressure Range: 0-125 PSIG (0-8.5 bar) std.
Max Inlet Pressure: 300 PSIG (20.7 bar)
Temperature Range: 40-150°F (4.4-65.6°C)
Weight: 1.79 lbs
Operation: Fluorocarbon Diaphragm
Relieving: Standard (non-relieving optional)

Materials of Construction:

Body: 316 Stainless Steel
Spring Cage: Glass-filled Celcon
Inner Valve: 316 Stainless Steel
Bottom Plug: 316 Stainless Steel
Seals: Fluorocarbon
Adjustment Mechanism:
316 Stainless Steel Spring and
316 Stainless Steel Adjusting Screw

Performance Data:



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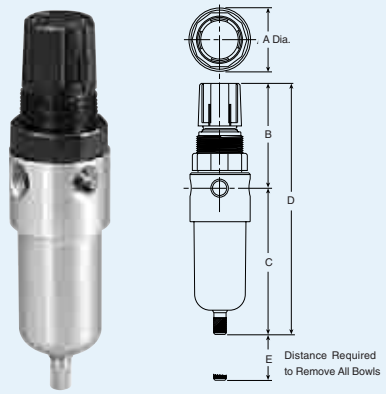
Miniature "Piggyback" Filter/Regulator

FB548-02DGCSS



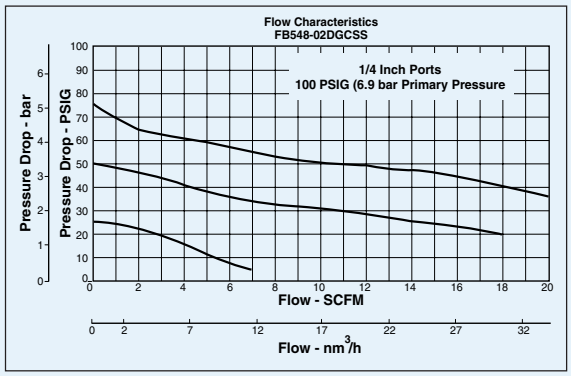
Dimensions

A	B	C	D	E
1.56	2.63	3.63	6.25	1.58
40mm	67mm	92mm	159mm	40mm

Specifications:
Flow: 20 SCFM
Port Size: 1/4" NPT
Gauge Port: 1/4" NPT
Drain: Manual
Filter Rating: 5 micron
Outlet Pressure Range: 0-125 PSIG (0-8.5 bar) std.
Max Inlet Pressure: 300 PSIG (20.7 bar)
Temperature Range: 40-150°F (4.4-65.6°C)
Weight: 0.6 lbs
Operation: Fluorocarbon Diaphragm
Relieving: Standard (non-relieving optional)
Bowl Capacity: 1 oz.

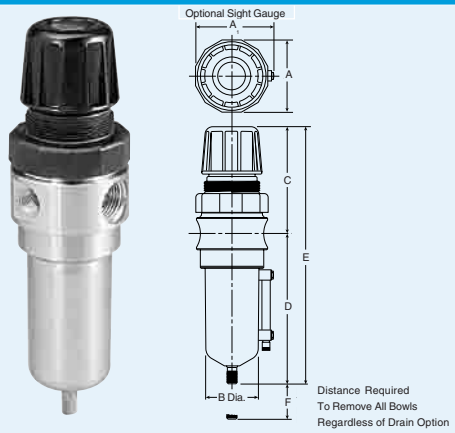
Materials of Construction:
Body: 316 Stainless Steel
Bowl: 316 Stainless Steel
Spring Cage: Celcon
Inner Valve: 316 Stainless Steel
Seals: Fluorocarbon
Adjustment Mechanism:
316 Stainless Steel Spring and
316 Stainless Steel Adjusting Screw

Performance Data:



"Piggyback" Filter/Regulator

FB11-04DGCSS



Dimensions

A	A_1	B	C	D	E	F
2.34	2.50	1.75	3.59	5.00	8.59	2.12
60mm	64mm	44mm	91mm	127mm	218mm	54mm

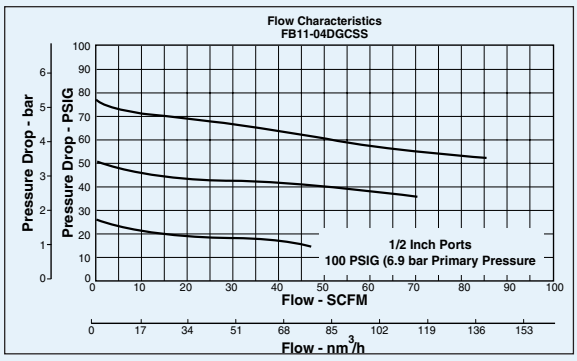
Specifications:
Flow: 72 SCFM
Port Size: 1/2" NPT
Gauge Port: 1/4" NPT
Drain: Manual (automatic optional)
Filter Rating: 5 micron
Outlet Pressure Range: 0-125 PSIG (0-8.5 bar) std.
Max Inlet Pressure: 300 PSIG (20.7 bar)
Temperature Range: 40-150°F (4.4-65.6°C)
Weight: 2.42 lbs
Operation: Fluorocarbon Diaphragm
Relieving: Standard (non-relieving optional)
Bowl capacity: 4 oz.

Materials of Construction:
Body: 316 Stainless Steel
Bowl: 316 Stainless Steel
Spring Cage: Glass-filled Celcon
Inner Valve: 316 Stainless Steel
Seals: Fluorocarbon
Adjustment Mechanism:
316 Stainless Steel Spring and
316 Stainless Steel Adjusting Screw

Available Options:

Part Number	Auto Drain	Sight Glass
FB11-04DGCSS		
FB11-04WGCSS		✔
FB11-04DGCRSS	✔	
FB11-04WGCRSS	✔	✔

Performance Data:



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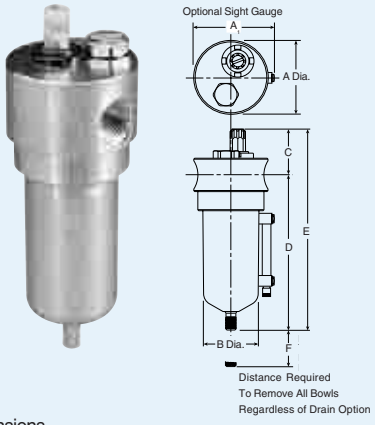
Oxford, MI

Lubricator

FL10-04DSS



Dimensions

A	A_1	B	C	D	E	F
2.38	2.50	1.75	1.81	5.00	6.81	3.50
60mm	64mm	44mm	46mm	127mm	173mm	89mm

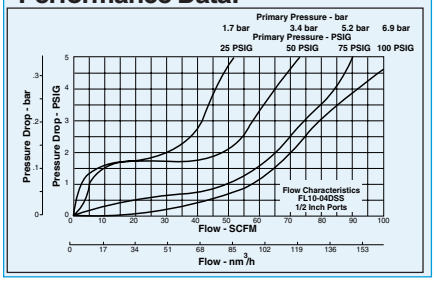
Specifications:
Flow: 105 SCFM
Port Size: 1/2" NPT
Maximum Pressure:
300 PSIG (20.7 bar)
Temperature Range:
40-150°F (4.4-65.6°C)
Weight: 2.3 lbs
Bowl Capacity: 4 oz.

Materials of Construction:
Body: 316 Stainless Steel
Bowl: 316 Stainless Steel
Dip Tube: 316 Stainless Steel
Fill Plug: 316 Stainless Steel
Sight Dome/Drip Spout:
Polyurethane
Seals: Fluorocarbon
Retainer: Nylon
By-pass Assembly:
Polyurethane and 316 Stainless Steel

Available Options:

Part Number	Sight Glass
FL10-04DSS	
FL10-04WSS	✔

Performance Data:



Internal Auto Drain

FSA602MDSS

For installation in Filters
FF10, FF11 and FB11

Materials of Construction:
- 316 Stainless Steel
- Elgiloy
- Fluorocarbon
- Buna-N
- 304 Stainless Steel
- Acetal
- For use with H_2S (sour gas), contact factory at 1-800-521-4357

Pressure Gauges

274Y160SS
(Recommended for FR364/FB548)
Specifications:
Dial Size: 1 1/2"
Connection: 1/4" center back
Materials of Construction:
Bourdon Tube: 316 Stainless Steel
Case: 304 Stainless Steel
Face: Glass
Connection: 316 Stainless Steel
Note: This pressure gauge does not meet NACE specs.

275Y160SS
(Recommended for FR10/FB11)
Specifications:
Dial Size: 2"
Connection: 1/4" center back
Materials of Construction:
Bourdon Tube: 316 Stainless Steel
Case: 304 Stainless Steel
Face: Glass
Connection: 316 Stainless Steel

Accessories and Kits

Description	Part Number
Steel Panel Mount Nut	
FR364/FB548	R05X51SS
FR10/FB11	R10X51SS
Regulator Repair Kits	
FR10/FB11 - Relieving	RKR10YSS
FR10/FB11 - Nonrelieving	RKR10KYSS
FR364 - Relieving	RKR364YSS
FR364 - Nonrelieving	RK364KYSS
FB548 - Relieving	RK549YSS
FB548 - Nonrelieving	RK548KYSS
Filter Element Kits	
FF504 Particulate(5 micron)	EK504VY
FF501 Coalescing(.3 micron)	EKF501H
FF10/FB11 Particulate	EK55J
FF11 Coalescing	EKF71
FB548 Particulate(5 micron)	EK504VY
Cage Kits	
FR364/FB548	CKR364YSS
FR10/FB11	CKR10YSS

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Notes:

finitefilter@parker.com

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Finite®

Exhaust Coalescing Silencer

eliminates unwanted oil mist and reduces exhaust noise

from pneumatic valves, cylinders and air motors.

Features:

- 99.97% oil removal efficiencies
- 25 dBA Noise attenuation
- 1/2" and 1" NPT
- Disposable Units
- Continuous or plugged drain option
- Metal retained UNI-CAST construction
- Fast exhaust time
- BSP (G) Thread option

Improve Overall Plant Environment

Exhaust oil mist and noise pollution have a direct impact on worker productivity and their environment.

Oil aerosol mist from lubricators and compressors is pervasive and enters the industrial plant environment through the exhaust ports of valves, cylinders and air motors. This rapidly expanding exhaust also produces sudden and excessive noise.

Finite's Exhaust Coalescing Silencer (ECS) is 99.97% efficient at removing the oil aerosols. The ECS also acts as a silencer to lower the dBA levels to below O.S.H.A. requirements.

The result is a cleaner, quieter, environment which equates to greater work productivity and safety.

Finite® Technology

ECS units are constructed from the same materials that go into our oil removal coalescing filter elements. Finite's UNI-CAST seamless design insures media uniformity and strength. This proven technology provides high coalescing efficiency with low pressure drop.

The filter media is supported by cylindrical perforated steel retainers both inside and out. These retainers, galvanized for excellent corrosion resistance, give Finite's ECS units high rupture strength in either flow direction. ECS units can also be used as high efficiency inlet or bypass filters for vacuum pumps, or breather elements to protect the air above critical process liquids.

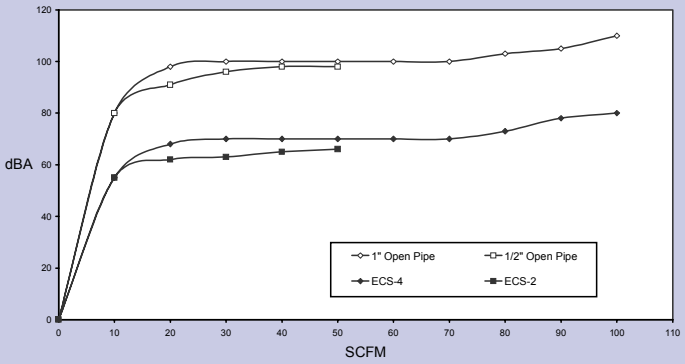
How It Works

Compressor oils and lubricating oils are exhausted from valves, cylinders and air motors into the ECS. Oil aerosols are coalesced into larger droplets and gravity pulls them into the attached drain sump. The sump can then be drained manually or by using a 1/4" ID plastic tube drain. The air flowing into the ECS is also muffled or silenced as it enters the inside of the ECS and passes through the filter media into the atmostphere.

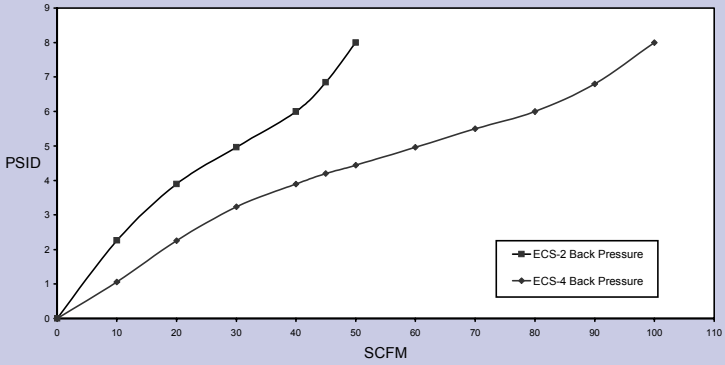
Finite®

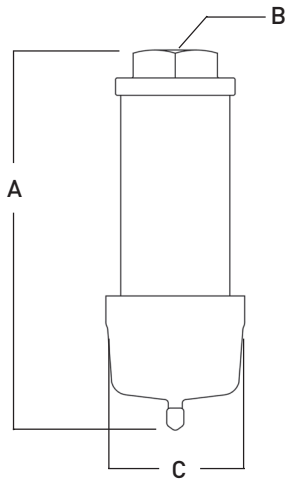
Exhaust Coalescing Silencer

Flow vs. Noise Level



Flow vs. Back Pressure





Performance Specifications:

Maximum operating temperature: 125°F/52°C
Maximum Line Pressure: 100 PSIG/7bar

Dimensions:

Model Number	A	B	C
ECS-2	5.3" (135mm)	1/2" NPT	2.57" (65mm)
ECS-4	7.3" (185mm)	1" NPT	2.57" (65mm)
ECSB-2	5.3" (135mm)	1/2" BSP	2.57" (65mm)
ECSB-4	7.3" (185mm)	1" BSP	2.57" (65mm)

Typical Applications:

- Valve Exhaust
- Cylinder Exhaust
- Air Motor Exhaust
- Noise Reduction
- Oil Mist Elimination
- Safer Work Environment
- Tank Vents
- Vacuum Exhaust

Ordering Information:

Use the following model numbers to place an order:

For NPT Porting:
ECS-2 x 1 (1/2" NPT)
ECS-4 x 1 (1" NPT)
ECS-2 x 6 (1/2" NPT - Carton of 6)
ECS-4 x 6 (1" NPT - Carton of 6)

For BSP Porting:
ECSB-2 x 1 (1/2" BSP - Parallel (G))
ECSB-4 x 1 (1" BSP - Parallel (G))
ECSB-2 x 6 (1/2" BSP - Parallel (G) - Carton of 6)
ECSB-4 x 6 (1" BSP - Parallel (G) - Carton of 6)

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Compressed Air & Gas Desiccant Dryers

For Point of Use and OEM Applications

Bulletin 1300-850 USA

Finite®

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

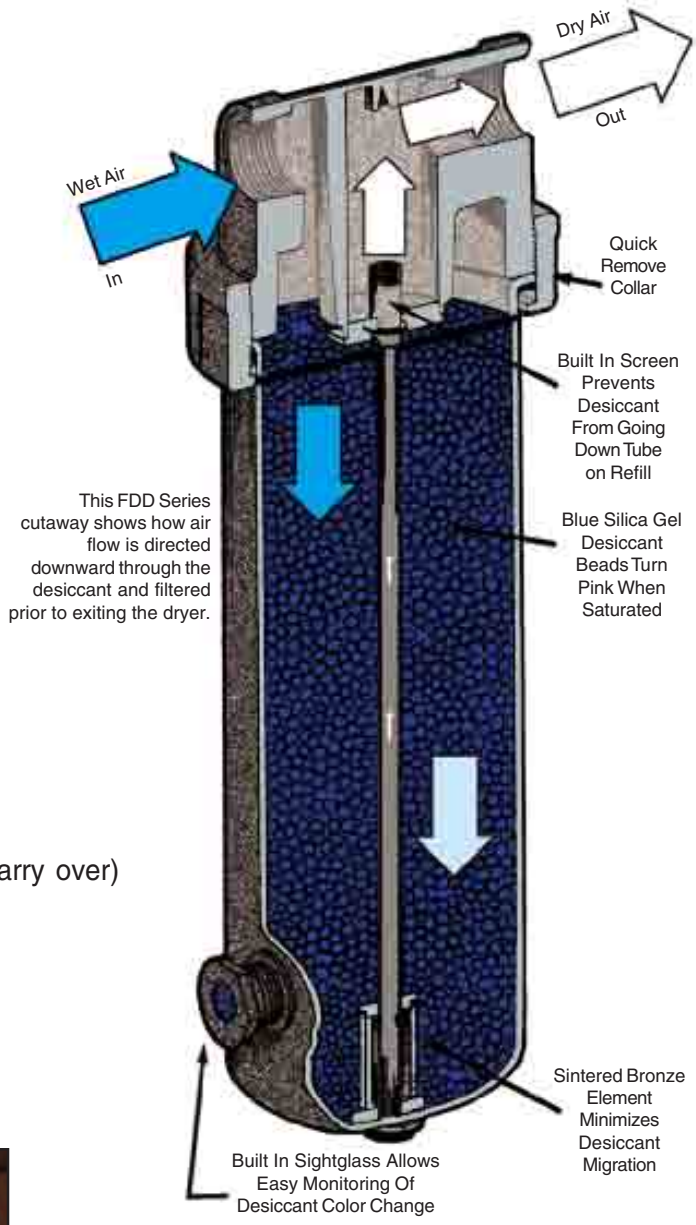
FDD Desiccant Dryer Series

- **1/4" to 1" NPT Ports**
- **Capacities to 60 SCFM**
- **Pressure Dewpoints Down to -40° F**

Finite® Filter's unique in-line air/gas dryer system is engineered for easy desiccant changeouts, longer life and lower pressure drop.

The FDD Series is designed to remove water vapor and aerosols at point-of-use for intermittent flows up to 60 SCFM. Finite dryers do not require steady flow for constant dewpoint supression.

A color changing moisture indicator with visual sight gauge indicates the desiccant needs replacement.



This FDD Series cutaway shows how air flow is directed downward through the desiccant and filtered prior to exiting the dryer.

Standard Features

- Zinc Head/Steel Bowl with Integral Sightglass
- Sintered Bronze Elements (prevents desiccant carry over)
- Collar Connect for Easy Changeouts
- Maximum Operating Temperature: 180° F
- Maximum Working Pressure: 300 PSI
- Optimum Working Temperature: Below 100° F

The new FDD Series offers clean dry air for intermittent usage.

Applications

- Intermittent Air Use
- Clean, Dry Air for Pneumatic Applications
- Protect Instrumentation
- Protect Air Tools Against Gumming and Oxidation
- Auto Body Paint Systems — Helps Prevent Fish Eye Defects
- Valve Actuation — Instrument Air

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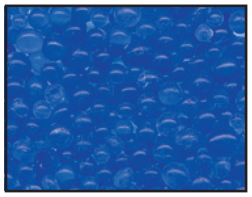
Filtration and Separation Division
Oxford, MI

Desiccant Types

Silica Gel — Finite Filter's 100 percent indicating silica gel provides maximum moisture adsorption and dewpoints down to -40° F.



Silica Gel is standard on the FDD Series

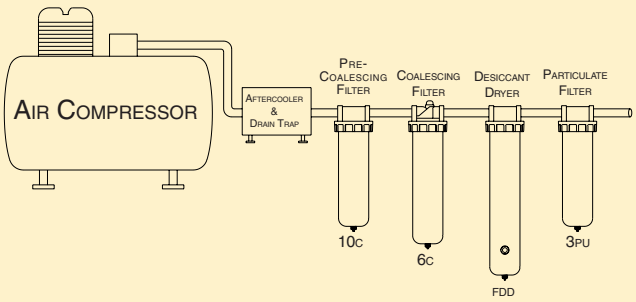
Outstanding features of Silica Gel include:

- High adsorption capacity - average surface area for each bead is over 200 ft^2
- Low abrasion, due to high mechanical strength for long service life
- Ideal packing in bowl due to bead shape
- Uniform color change
- Excellent regeneration characteristics

As the silica beads adsorb moisture, they change from blue to pink, indicating the need for replacement or regeneration. The desiccant can be regenerated by heating in a drying oven to a temperature higher than 212° F but not over 350° F. Desiccant may also be regenerated in microwave ovens.

Molecular Sieve — Molecular sieves are crystalline, metallic aluminum silicates. The type 4A offers exceptional water vapor adsorption characteristics. Dewpoints are attainable to -40° F.

Recommended Installation



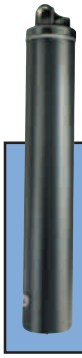
- Always place a moisture separator and/or pre-coalescing filter upstream to remove bulk liquids
- Always place a coalescing filter upstream to remove oil. Desiccant coated with oil will not adsorb moisture
- A 3 micron (or better) particulate filter is recommended downstream to remove desiccant dust in critical applications

Why Finite® Desiccant Dryers?

Finite® desiccant dryers are the simplest and most reliable method of insuring your sensitive pneumatic equipment is not exposed to damaging moisture. When air is compressed, the temperature of air is increased as is its capacity to hold moisture. As the hot moist air travels downstream through the pipelines, it cools, allowing the moisture to condense. Aftercoolers, filters, drain traps and driplegs are effective for removing condensate. But for removing residual water vapor and aerosols, use the Finite Desiccant Dryer.

FDD15
- 1/4" - 3/4" NPT
- Flows to 15 SCFM
- Low Flow Intermittent Use

FDD30
- 3/8" - 1" NPT
- Flows to 30 SCFM
- Medium Flow for Intermittent Use or Longer Time Between Desiccant Changeouts



FDD60
- 1/2" - 1" NPT
- Flows to 60 SCFM
- For Intermittent Use or Longer Time Between Desiccant Changeouts

How Do They Work?

As the wet compressed air flows through the inlet port and down through the bed of desiccant, the desiccant beads adsorb the water vapor and aerosols. The silica gel beads are so effective in adsorption, the air humidity can be reduced to a -40° F pressure dew point. Unless your compressed air is exposed to a temperature below the dewpoint, there will be no further condensation forming in your air lines.

After the moisture has been removed, the dry air passes through a sintered bronze element, up the center tube, and out the outlet port. As long as the desiccant is replaced regularly, your equipment will receive ultra dry, moisture-free air.

This sight gauge shows the color of the silica gel. When the gel turns from blue to pink, it is time to change the desiccant.

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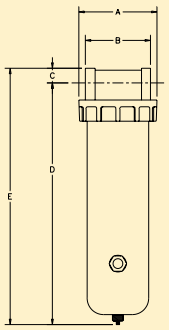
Oxford, MI



Dimensions

	A*	B*	C	D	E	Weight
FDD15	4 15/16	4 1/16	13/16	12 11/16	13 1/2	8 lbs.
FDD30	4 15/16	4 1/16	13/16	22 7/16	23 1/4	13 lbs.
FDD60	4 15/16	4 1/16	13/16	29 7/16	30 1/4	20 lbs.

*Dimensions A & B do not include reducer bushings
Note: Weight is for housing only. Bowl removal requires a minimum of 2".

Ordering Information

Model No. Housing Only**	Pipe Size (NPT)	Flow Capacity	Bowl Capacity Desiccant (lbs)
FDD15-02*	1/4"	15 SCFM	2 1/2
FDD15-03*	3/8"	15 SCFM	2 1/2
FDD15-04*	1/2"	15 SCFM	2 1/2
FDD15-06	3/4"	15 SCFM	2 1/2
FDD30-03*	3/8"	30 SCFM	5
FDD30-04*	1/2"	30 SCFM	5
FDD30-06	3/4"	30 SCFM	5
FDD30-08	1"	30 SCFM	5
FDD60-04*	1/2"	60 SCFM	10
FDD60-06	3/4"	60 SCFM	10
FDD60-08	1"	60 SCFM	10

*These dryers supplied with reducer bushings.
**Desiccant sold separately.

Desiccant Type	5 lb Can	Master Pack 4x5 lb Can
Silica Gel (all indicating)	FSGM100-1	FSGM100-4
Molecular Sieve (non-indicating)	FMS100-1	FMS100-4

For detailed performance curves, please contact your local distributor or Finite® Filter.

Performance

The flow capacities in the table are nominal ratings provided for reference. These capacities are recommended for minimal pressure drop and average desiccant life.

A supply of low flow/low humidity air will provide longer desiccant life, whereas high flow/high humidity air will require more frequent desiccant changes.

Installed in an application with intermittent flow, Finite desiccant dryers will typically dry air for weeks before the silica gel desiccant requires replacement or regeneration.

Did You Know ?

When a grade 6 microglass coalescer is installed ahead of an FDD Dryer, 99.97% of all contaminants are removed and desiccant life is greatly enhanced.

Dryers

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

OEM Compressed Air Hollow Fiber Membrane Dryers

Bulletin 1300-800/USA

Finite®

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

FMD-Series
Hollow Fiber Membrane Technology

Finite®, the world leader in coalescing media development, has combined its proven coalescing filtration with a modern alternative to pressure swing and refrigerant dryer technologies.

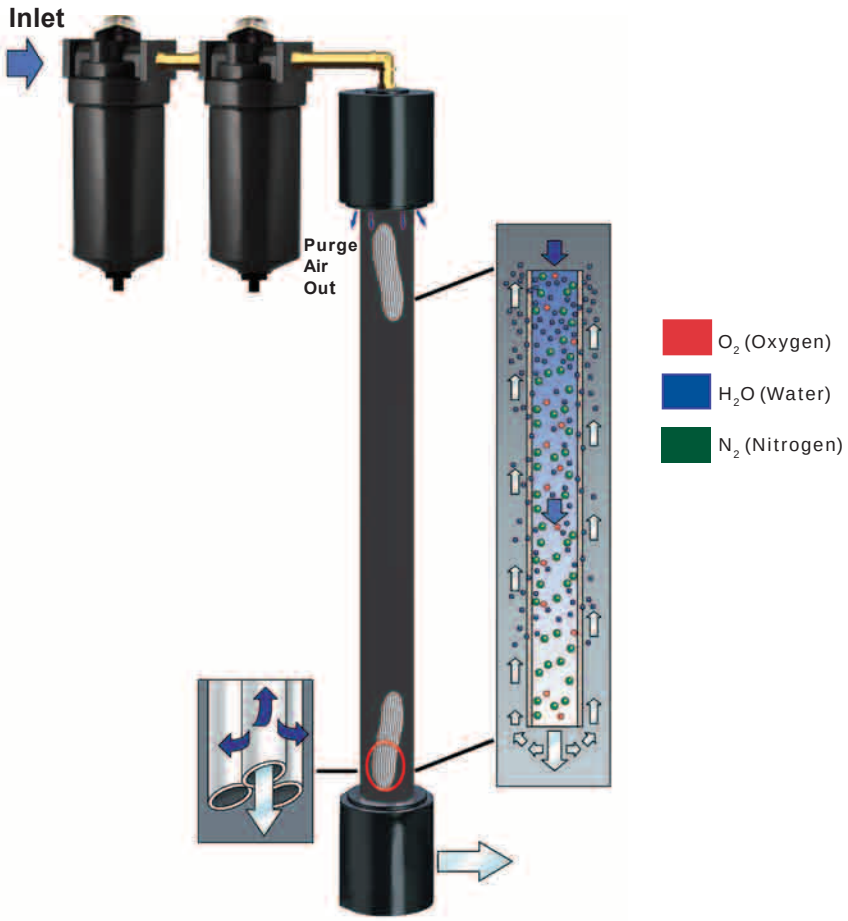
Finite®'s membrane dryers are available in 10 models which can supply clean, dry compressed air with dewpoints as low as -40°F (@10 SCFM) and +35° F (@40 SCFM).

These membrane dryers are engineered for easy installation, minimal maintenance, and long term reliability.

How It Works:

The water vapor in the compressed air is removed by the principle of selective permeation through a membrane. The membrane module consists of bundles of hollow membrane fibers, each permeable to water vapor. As the compressed air passes through the center of these fibers, water vapor permeates through the walls of the fiber. A small portion of the dry air (purge flow) is redirected along the outside of each hollow fiber, carrying away the moisture-laden air which is then exhausted to room atmosphere. The remainder of the dry air is piped to the application.

NOTE: In all cases a Grade 10 prefilter and a Grade 6 coalescer are installed upstream of the dryer module for 99.9985% removal of oil aerosols and mists.



Clean, Dry Air Out

Applications

- Air bearings
- Analytical instrumentation
- Coordinate measurement machines (CMM)
- Dental air
- Dry air for hazardous areas
- Electrostatic painting
- General laboratory air supply
- Laboratory grade air
- Laser and optical purge
- Low dewpoint instrument air
- OEM machine builders
- Pneumatic equipment
- Prevention of air line freeze ups
- Purge air for electronic cabinets
- Purge moisture sensitive coatings and adhesives

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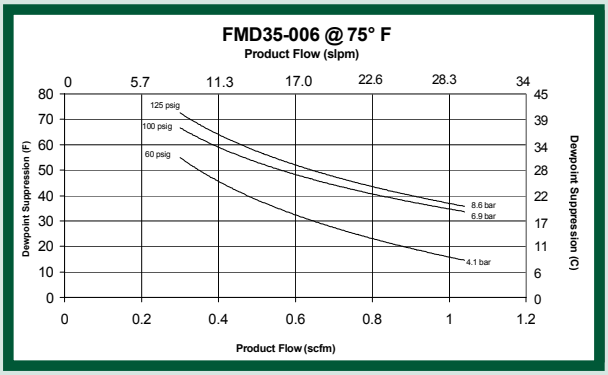
Features	Advantages	Benefits
■ No moving parts	Nothing to wear out	Less downtime
■ Quiet	Can be installed anywhere	Perfect for point-of-use applications
■ Designed for point of use	Lightweight	Ease of installation
■ Continuous operation	No waiting for media changeouts	Less downtime
■ Differential pressure indicator *(on selected models)*	Indicates when filter element should be changed	Dryer protection insurance
■ Hollow fiber technology	No electricity No U.L. approval required No refrigerants Low dewpoints	Low operating cost OEM cost savings Environmentally friendly Prevents freezing
■ Non oxygen depleting membrane fibers	Only water vapor molecules are allowed to pass through fiber walls	Dryers can be used in medical, dental and breathing air applications

Part Number FMD35-006

+35° F Dewpoint Dryers

Specifications:

Width	5.5" (14.00 cm)
Height	14.5" (36.83 cm)
Port Size	1/4" NPT
Min./Max. Inlet Pressure	60/150 PSIG (4.1-10.3 bar)
Ambient/Inlet Temp. Range	40°-100° F (4.4°-37.8° C)
Purge Flow @ 100 PSI	0.25 SCFM (0.43 NM^3/H)
Pre-coalescer Part #	Q1S-10HM06-013
Replacement element:	10HM06-013
Coalescer Part #	Q1S-6HM06-013
Replacement element:	6HM06-013
Weight	0.7 lbs. (.38 kg)



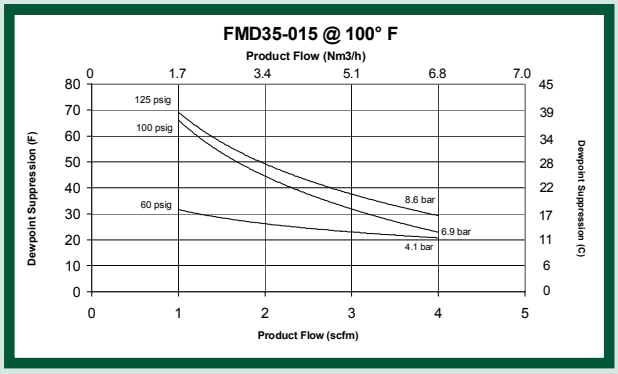
Total Air Consumption = Purge Flow + Product Flow

Part Number FMD35-015

+35° F Dewpoint Dryers

Specifications:

Width	6.5" (16.51 cm)
Height	15" (38.10 cm)
Port Size	1/4" NPT
Min./Max. Inlet Pressure	60/150 PSIG (4.1-10.3 bar)
Ambient/Inlet Temp. Range	40°-100° F (4.4°-37.8° C)
Purge Flow @ 100 PSI	0.5 SCFM (0.85 NM^3/H)
Pre-coalescer Part #	Q1S-10HM06-013
Replacement element:	10HM06-013
Coalescer Part #	Q1S-6HM06-013
Replacement element:	6HM06-013
Weight	1.9 lbs. (.86 kg)



Total Air Consumption = Purge Flow + Product Flow

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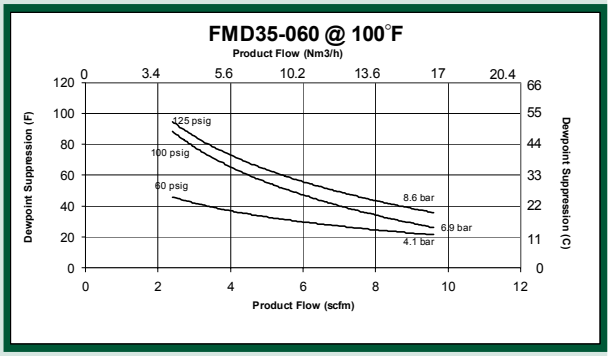
Filtration and Separation Division
Oxford, MI

Part Number FMD35-060

+35° F Dewpoint Dryers

Specifications:

Width	10" (25.4 cm)
Height	22" (55.88 cm)
Port Size	1/4" NPT
Min./Max. Inlet Pressure	60/150 PSIG (4.1-10.3 bar)
Ambient/Inlet Temp. Range	40°-100° F (4.4°-37.8° C)
Purge Flow @ 100 PSI	1.5 SCFM (2.55 NM³/H)
Pre-coalescer Part #	HN1S-10CW
Replacement element:	10C10-025
Coalescer Part #	HN1S-6CW
Replacement element:	6C10-025
Weight	5.2 lbs. (2.36 kg)



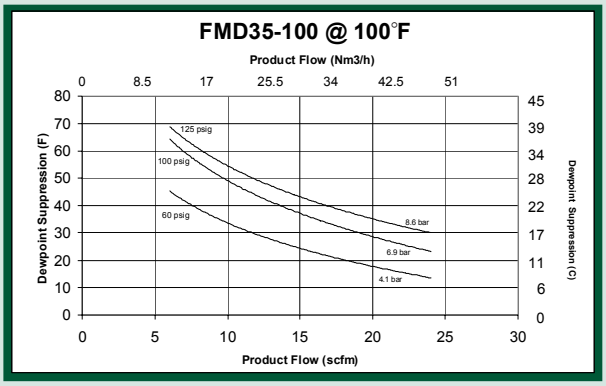
Total Air Consumption = Purge Flow + Product Flow

Part Number FMD35-100

+35° F Dewpoint Dryers

Specifications:

Width	11.5" (29.21 cm)
Height	22" (55.88 cm)
Port Size	1/2" NPT
Min./Max. Inlet Pressure	60/150 PSIG (4.1-10.3 bar)
Ambient/Inlet Temp. Range	40°-100° F (4.4°-37.8° C)
Purge Flow @ 100 PSI	3.5 SCFM (5.95 NM³/H)
Pre-coalescer Part #	HN2S-10CW
Replacement element:	10C10-025
Coalescer Part #	HN2S-6CW
Replacement element:	6C10-025
Weight	7.1 lbs. (3.22 kg)



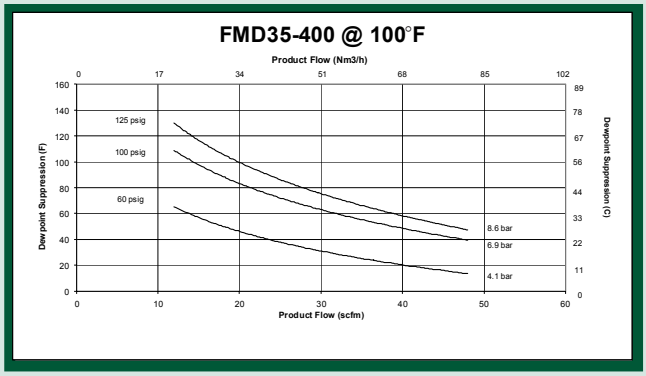
Total Air Consumption = Purge Flow + Product Flow

Part Number FMD35-400

+35° F Dewpoint Dryers

Specifications:

Width	14" (35.56 cm)
Height	38" (96.52 cm)
Port Size	1/2" NPT
Min./Max. Inlet Pressure	60/150 PSIG (4.1-10.3 bar)
Ambient/Inlet Temp. Range	40°-100° F (4.4°-37.8° C)
Purge Flow @ 100 PSI	6 SCFM (4.2 NM³/H)
Pre-coalescer Part #	HN2L-10CW
Replacement element:	10C10-050
Coalescer Part #	HN2L-6CW
Replacement element:	6C10-050
Weight	18.9 lbs. (8.57 kg)



Total Air Consumption = Purge Flow + Product Flow

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Part Number FMD40-001

-40° F Dewpoint Dryers

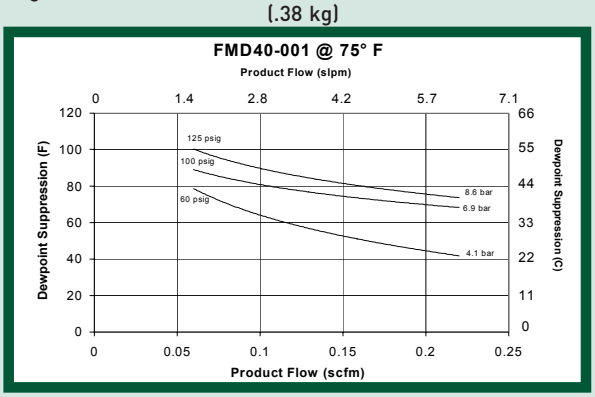
Specifications:

Width	5.5" (14.00 cm)
Height	14.5" (36.83 cm)
Port Size	1/4" NPT
Min./Max. Inlet Pressure	60/150 PSIG (4.1-10.3 bar)
Ambient/Inlet Temp. Range	40°-100° F (4.4°-37.8° C)
Purge Flow @ 100 PSI	0.25 SCFM (0.43 NM^3/H)

Pre-coalescer Part # Q1S-10HM06-013
Replacement element: 10HM06-013

Coalescer Part # Q1S-6HM06-013
Replacement element: 6HM06-013

Weight	0.7 lbs. (.38 kg)



Total Air Consumption = Purge Flow + Product Flow

Part Number FMD40-002

-40° F Dewpoint Dryers

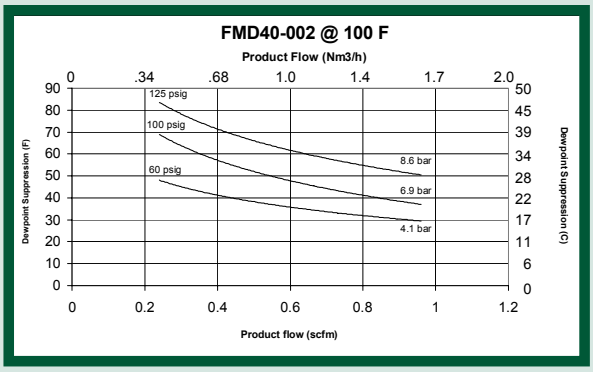
Specifications:

Width	6.5" (16.51 cm)
Height	15" (38.10 cm)
Port Size	1/4" NPT
Min./Max. Inlet Pressure	60/150 PSIG (4.1-10.3 bar)
Ambient/Inlet Temp. Range	40°-100° F (4.4°-37.8° C)
Purge Flow @ 100 PSI	0.2 SCFM (0.34 NM^3/H)

Pre-coalescer Part # Q1S-10HM06-013
Replacement element: 10HM06-013

Coalescer Part # Q1S-6HM06-013
Replacement element: 6HM06-013

Weight	1.9 lbs. (.86 kg)



Total Air Consumption = Purge Flow + Product Flow

Part Number FMD40-020

-40° F Dewpoint Dryers

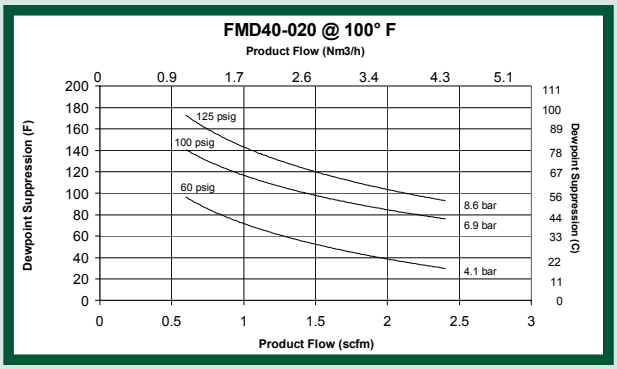
Specifications:

Width	10" (25.4 cm)
Height	22" (55.88 cm)
Port Size	1/4" NPT
Min./Max. Inlet Pressure	60/150 PSIG (4.1-10.3 bar)
Ambient/Inlet Temp. Range	40°-100° F (4.4°-37.8° C)
Purge Flow @ 100 PSI	0.5 SCFM (.85 NM^3/H)

Pre-coalescer Part # HN1S-10CW
Replacement element: 10C10-025

Coalescer Part # HN1S-6CW
Replacement element: 6C10-025

Weight	5.2 lbs. (2.36 kg)



Total Air Consumption = Purge Flow + Product Flow

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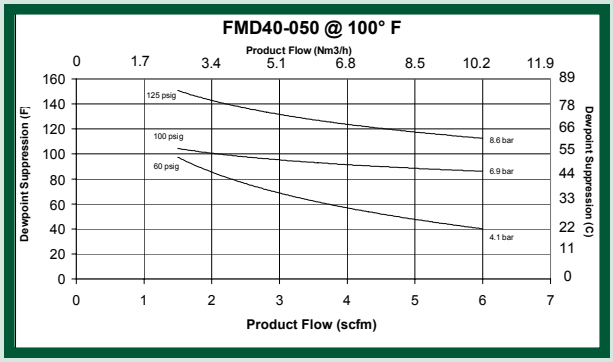
Filtration and Separation Division
Oxford, MI

Part Number FMD40-050

-40° F Dewpoint Dryers

Specifications:

Width	14" (35.56 cm)
Height	26" (66.04 cm)
Port Size	1/2" NPT
Min./Max. Inlet Pressure	60/150 PSIG (4.1-10.3 bar)
Ambient/Inlet Temp. Range	40°-100° F (4.4°-37.8° C)
Purge Flow @ 100 PSI	2 SCFM (3.4 NM^3/H)
Pre-coalescer Part #	HN2S-10CW
Replacement element:	10C10-025
Coalescer Part #	HN2S-6CW
Replacement element:	6C10-025
Weight	13.3 lbs. (3.22 kg)



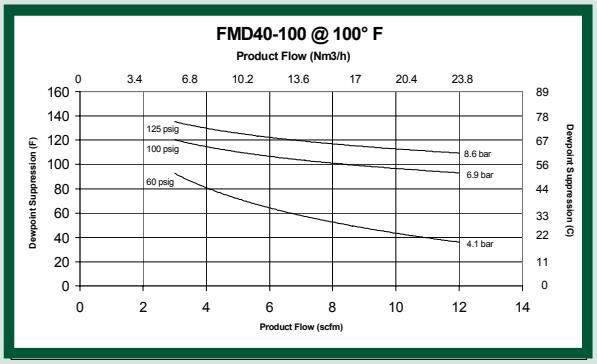
Total Air Consumption = Purge Flow + Product Flow

Part Number FMD40-100

-40° F Dewpoint Dryers

Specifications:

Width	14" (35.56 cm)
Height	38" (96.52 cm)
Port Size	1/2" NPT
Min./Max. Inlet Pressure	60/150 PSIG (4.1-10.3 bar)
Ambient/Inlet Temp. Range	40°-100° F (4.4°-37.8° C)
Purge Flow @ 100 PSI	2.5 SCFM (4.25 NM^3/H)
Pre-coalescer Part #	HN2L-10CW
Replacement element:	10C10-050
Coalescer Part #	HN2L-6CW
Replacement element:	6C10-050
Weight	18.9 lbs. (8.57 kg)



Total Air Consumption = Purge Flow + Product Flow

Par-Fit™ Conversion Elements

Bulletin 1300-500-1/USA

Finite®

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

The Finite® Advantage...

High filtration efficiency, low operating costs, long life, high quality, and the convenience of purchasing your products from a single supplier are the Finite® advantages.

You can have all of the benefits inherent in a Finite® filter element without the need to replace your existing filter housing.

Each Finite® coalescing filter element offers our unique UNI-CAST design created from a carefully controlled vacuum process. This design was developed and patented by Finite® to optimize filter performance and results in a filter element with lower differential pressure and a higher dirt loading capacity. This means lower operating costs and longer life. Because we have complete control over the manufacture of our products, we also have control over our product's quality and performance. This means reliable and consistent filtration performance for your applications.

Finite®'s filtration efficiency standards are among the highest in the industry. We have been careful to supply you a product that always meets and in most cases exceeds the filtration performance and flow rate capacity of the original element. We verify these standards in our quality control laboratory. You are assured of getting a filter element with industry leading filtration quality.

Finite® is one of the pioneers in coalescing filtration. We are dedicated to the science of this filtration technique. By purchasing a Finite® product you will have access to our many years of coalescing experience and research. With the breadth of our product line, including complete filter housings, most of your needs will be met with a single source, high quality, reliable supplier.

Call your Finite® distributor now for your filtration needs. Or, your questions can be answered by calling 1-(800)-521-4357. Ask for Applications Engineering. Finite®'s benefits are available to you, now.

Contents

Manufacturer

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Arrow

Arrow Part Number	Finite® Part Number
Oil Removal	
EKF401	10RU07-018 x 8
EKF402	10RU10-021 x 8
EKF405	10RA20-040 x 4
EKF407	10RA20-071 x 2
EKF408	10RA20-080 x 2
EKF410	10RU25-101 x 2
EKF418	10RU25-181 x 1
EKF428	10RU25-281 x 1
EKF4N2	10RU25-281 x 1
EKF4 x 2	10RU25-281 x 1
EKF4 x 3	10RU25-281 x 1
EKF4 x 4	10RU25-281 x 1
EKF4 x 5	10RU25-281 x 1
EKF4 x 6	10RU25-281 x 1
EKF4 x 8	10RU25-281 x 1
Coalescer	
EKF501	6CU07-018 x 8
EKF502	6CU10-022 x 8
EKF505	6IA20-040 x 4
EKF507	6IA20-071 x 2
EKF508	6IA20-080 x 2
EKF510	6IU25-101 x 2
EKF518	6IU25-181 x 1
EKF528	6IU25-281 x 1
EKF529	6CA29-280 x 1
EKF5N2	6IU25-281 x 1
EKF5 x 2	6IU25-281 x 1
EKF5 x 3	6IU25-281 x 1
EKF5 x 4	6IU25-281 x 1
EKF5 x 5	6IU25-281 x 1
EKF5 x 6	6IU25-281 x 1
EKF5 x 8	6IU25-281 x 1
Fine Coalescer Grade A	
EKF501A	2CU07-018 x 8
EKF502A	2CU10-022 x 8
EKF505A	2IA20-040 x 4
EKF507A	2IA20-071 x 2
EKF508A	2IA20-080 x 2
EKF510A	2IU25-101 x 2
EKF518A	2IU25-181 x 1
EKF528A	2IU25-281 x 1
EKF529A	2CA29-280 x 1
EKF5N2A	2IU25-281 x 1
EKF5 x 2A	2IU25-281 x 1
EKF5 x 3A	2IU25-281 x 1
EKF5 x 4A	2IU25-281 x 1
EKF5 x 5A	2IU25-281 x 1
EKF5 x 6A	2IU25-281 x 1
EKF5 x 8A	2IU25-281 x 1
Vapor Adsorber	
EKF601	AU07-018 x 8
EKF602	AU10-022 x 8
EKF605	AA20-040 x 4
EKF607	AA20-071 x 2
EKF608	AA20-080 x 2
EKF610	AU25-101 x 2
EKF618	AU25-181 x 1
EKF628	AU25-281 x 1
EKF629	AA29-280 x 1
EKF6N2	AU25-281 x 1
EKF6 x 2	AU25-281 x 1
EKF6 x 3	AU25-281 x 1
EKF6 x 4	AU25-281 x 1
EKF6 x 5	AU25-281 x 1
EKF6 x 6	AU25-281 x 1
EKF6 x 8	AU25-281 x 1

Note: Finite® provides replacement elements only. If endcaps and center rods are not reusable, consult factory.

Balston

Balston Part Number	Finite® Part Number
Coalescers	
050-03-BX	6H04-010 x 10
050-05-BX	6H04-013 x 10
050-11-BX	6H04-023 x 10
100-09-BX	6H10-020 x 8
100-12-BX	6H10-025 x 8
100-18-BX	6H10-050 x 4
100-25-BX	6H10-070 x 4
150-19-BX	6H15-060 x 4
200-16-BX	6H20-035 x 4
200-35-BX	6H20-090 x 2
200-80-BX	6H20-187 x 1
050-03-CX	8H04-010 x 10
050-05-CX	8H04-013 x 10
050-11-CX	8H04-023 x 10
100-09-CX	8H10-020 x 8
100-12-CX	8H10-025 x 8
100-18-CX	8H10-050 x 4
100-25-CX	8H10-070 x 4
150-19-CX	8H15-060 x 4
200-16-CX	8H20-035 x 4
200-35-CX	8H20-090 x 2
200-80-CX	8H20-187 x 1
050-03-DX	10H04-010 x 10
050-05-DX	10H04-013 x 10
050-11-DX	10H04-023 x 10

Balston continued

Balston Part Number	Finite® Part Number
100-09-DX	10H10-020 x 8
100-12-DX	10H10-025 x 8
100-18-DX	10H10-050 x 4
100-25-DX	10H10-070 x 4
150-19-DX	10H15-060 x 4
200-16-DX	10H20-035 x 4
200-35-DX	10H20-090 x 2
200-80-DX	10H20-187 x 1
Particulate Diesel Emission Test Filters	
050-11-DH	10T04-023 x 10
100-12-DH	10T10-025 x 10
100-25-DH	10T10-070 x 10
050-11-BH	6T04-023 x 10
100-12-BH	6T10-025 x 10
100-25-BH	6T10-070 x 10
200-35-BH	6T20-090 x 10
Note: T Tubes are baked at 900 degrees F	
to eliminate all hydrocarbons.	
Vapor Adsorber	
CI-100-12	AU10-025 x 8
CI-100-25	AU10-070 x 4
CI-150-19	AB15-060 x 4
Particulate	
050-03*	*G04-010 x 10
050-05-*	*G04-013 x 10
050-11-*	*G04-023 x 10
100-12-*	*G10-025 x 10
100-25-*	*G10-070 x 10
150-19-*	*G15-060 x 10
200-35-*	*G20-090 x 10
200-80-*	*G20-187 x 10
050-03*Q	*T04-010 x 10
050-05-*Q	*T04-013 x 10
050-11-*Q	*T04-023 x 10
100-12-*Q	*T10-025 x 10
100-25-*Q	*T10-070 x 10
150-19-*Q	*T15-060 x 10
200-35-*Q	*T20-090 x 10
200-80-*Q	*T20-187 x 10
*See pore structure chart below	
Disposable Inline Filter Housings	
9933-05-BQ	IDN-6G x 10
9933-05-DQ	IDN-10G x 10
9900-05-BK	SDN-O x 10

Pore Structure Conversion Chart

Use this chart to determine the **Finite®** equivalent to the specified Balston grade.

Balston	AA	A	371H or B	C	D	E
Finite®	2	4	6	8	10	12

- 'G' type elements are for general air and gas applications to 350° F.
- 'T' type elements are suitable for use with air or gases containing most organic fluids and for temperatures to 450° F.

Binks

Binks Part Number	Finite® Part Number
86-972	6HU20-070 x 2
86-982	6HU10-050 x 4

Busch

Busch Part Number	Finite® Part Number
532-221	8CF20-051 x 2
532-302 (532.509.501)	8CF20-099 x 2
532-303 (532.082.01)	8CF20-147 x 1
532-304 (532.507.01)	8CF20-197 x 1

Cuno (AMF Cuno)

Cuno (AMF Cuno) Part Number	Finite® Part Number
Reverse Flow Coalescer	
9-3/4" (78 Series)	6CP15-098 x 2
10" (80 Series)	6CP15-100 x 2
3-3/4" (30 Series)	6CP15-038 x 4
3um Nominal Particulate	
G78A3 (9-3/4")	3PP15-098 x 2
G78B2 (9-3/4")	3PP15-098 x 2
G80A3 (10")	3PP15-100 x 2
G80B2 (10")	3PP15-100 x 2
U78A3 (9-3/4")	3PP15-098 x 2
U78B2 (9-3/4")	3PP15-098 x 2
U80A3 (10")	3PP15-100 x 2
U80B2 (10")	3PP15-100 x 2
Activated Carbon	
9-3/4" (78 Series)	AP15-098 x 2
10" (80 Series)	AP15-100 x 2

Domnick Hunter

Finite*'s alternative filter elements closely match Domnick Hunter's performance and aesthetic features.*

Domnick Hunter Part Number	Finite® Part Number
High Efficiency Coalescing Filters	
A03/1	6CJ10-030 x 1
A03/1.5	6CJ13-030 x 1
A04/1.5	6CJ13-044 x 1
A04/2.5	6IJ15-040 x 1
A05/2.5	6IJN15-050 x 1
A05/3	6IJ25-050 x 1

Domnick Hunter continued

Domnick Hunter Part Number	Finite® Part Number
A010/3	6IJ25-100 x 1
A015/3	6IG25-150 x 1
A020/3	6IG25-200 x 1
A030/3	6IG25-300 x 1
A030/5	6QG43-300 x 1
AA3/1	6CJ10-030 x 1
AA3/1.5	6CJ13-030 x 1
AA4/1.5	6CJ13-044 x 1
AA4/2.5	6IJ15-040 x 1
AA5/2.5	6IJN15-050 x 1
AA5/3	6IJ25-050 x 1
AA10/3	6IJ25-100 x 1
AA15/3	6IG25-150 x 1
AA20/3	6IG25-200 x 1
AA30/3	6IG25-300 x 1
AA30/5	6QG43-300 x 1
A002/05	6HJN08-024 x 1
A003/05	6HJN08-030 x 1
A003/10	6CJN10-030 x 1
A004/10	6CJN10-040 x 1
A004/20	6CJN13-040 x 1
A005/20	6CJN13-050 x 1
A005/25	6IJN15-050 x 1
A007/25	6IJN15-070 x 1
A007/30	6IJN25-070 x 1
A010/30	6IJN25-100 x 1
A015/30	6IGN25-150 x 1
A020/30	6IGN25-200 x 1
A030/30	6IGN25-300 x 1
A030/50	6QGN43-300 x 1
AA02/05	4HJN08-024 x 1
AA03/05	4HJN08-030 x 1
AA03/10	4CJN10-030 x 1
AA04/10	4CJN10-040 x 1
AA04/20	4CJN13-040 x 1
AA05/20	4CJN13-050 x 1
AA05/25	4IJN15-050 x 1
AA07/25	4IJN15-070 x 1
AA07/30	4IJN25-070 x 1
AA10/30	4IJN25-100 x 1
AA15/30	4IGN25-150 x 1
AA20/30	4IGN25-200 x 1
AA30/30	4IGN25-300 x 1
AA30/50	4QGN43-300 x 1
E006AA	6CF08-026 x 1
E013AA	6IF10-032 x 1
E025AA	6IF10-046 x 1
E040AA	6IF20-063 x 1
E085AA	6IF20-102 x 1
E195AA	6IF25-134 x 1
E295AA	6IF25-254 x 1
E400AA	6CF35-165 x 1
E500AA	6CF43-252 x 1
E620AA	6CF35-251 x 1
EP1001AO	6QP19-098 x 2
EZ1030AA	6CZ07-020 x 1
EZ1050AA	6CZ12-023 x 1
EZ1070AA	6CZ12-029 x 1
EZ1140AA	6CZ12-056 x 1
EZ2010AA	6CZ20-046 x 1
EZ2020AA	6CZ20-086 x 1
EZ2030AA	6CZ20-126 x 1
EZ2050AA	6CZ20-200 x 1
EZ3050AA	6CZ27-200 x 1
EZ3075AA	6CZ27-298 x 1
EZ5060AA	6CZ46-239 x 1
EZ5075AA	6CZ50-298 x 1
K145AA	6IF20-102 x 1
K220AA	6IF25-134 x 1
K330AA	6IF25-254 x 1
K430AA	6IF35-165 x 1
General Purpose Filters	
E006AO	10CF08-026 x 1
E013AO	10IF10-032 x 1
E025AO	10IF10-046 x 1
E040AO	10IF20-063 x 1
E085AO	10IF20-102 x 1
E195AO	10IF25-134 x 1
E295AO	10IF25-254 x 1
E400AO	10CF35-165 x 1
E500AO	10CF43-252 x 1
E620AO	10CF35-251 x 1
EZ1030AO	10CZ07-020 x 1
EZ1050AO	10CZ12-023 x 1
EZ1070AO	10CZ12-029 x 1
EZ1140AO	10CZ12-056 x 1
EZ2010AO	10CZ20-046 x 1
EZ2020AO	10CZ20-086 x 1
EZ2030AO	10CZ20-126 x 1
EZ2050AO	10CZ20-200 x 1
EZ3050AO	10CZ27-200 x 1
EZ3075AO	10CZ27-298 x 1
EZ5060AO	10CZ46-239 x 1
EZ5075AO	10CZ50-298 x 1
K145AO	10IF20-102 x 1
K220AO	10IF25-134 x 1
K330AO	10IF25-254 x 1
K430AO	10CF35-165 x 1
Particulate Filters	
EP1001PL	3PP19-098 x 2

NOTE:
Do not use '3P' element on liquid applications. '3P' grade is 3 micron absolute and has 20 times the surface area of the original element.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Domnick Hunter continued

Domnick Hunter Part Number	Finite® Part Number
PF 02/05	12GJN08-024 x 1
PF 03/05	12GJN08-030 x 1
PF 03/10	3PJN10-030 x 1
PF 04/10	3PJN10-040 x 1
PF 04/20	3PJN13-040 x 1
PF 05/20	3PJN13-050 x 1
PF 05/25	3PJN15-050 x 1
PF 07/25	3PJN15-070 x 1
PF 07/30	3PJN25-070 x 1
PF 10/30	3PJN25-100 x 1
PF 15/30	3PGN25-150 x 1
PF 20/30	3PGN25-200 x 1
PF 30/30	3PGN25-300 x 1
PF 30/50	3PGN43-300 x 1
Oil Vapor & Odor Removal	
AC3/1	AJ10-030 x 1
AC3/1.5	AJ13-030 x 1
AC4/1.5	AJ13-044 x 1
AC4/2.5	AJ15-040 x 1
AC5/2.5	AJN15-050 x 1
AC5/3	AJ25-050 x 1
AC10/3	AJ25-100 x 1
AC15/3	AG25-150 x 1
AC20/3	AG25-200 x 1
AC30/3	AG25-300 x 1
AC30/5	AG43-300 x 1
AC 02/05	AJN08-024 x 1
AC 03/05	AJN08-030 x 1
AC 03/10	AJN10-030 x 1
AC 04/10	AJN10-040 x 1
AC 04/20	AJN13-040 x 1
AC 05/20	AJN13-050 x 1
AC 05/25	AJN15-050 x 1
AC 07/25	AJN15-070 x 1
AC 07/30	AJN25-070 x 1
AC 10/30	AJN25-100 x 1
AC 15/30	AGN25-150 x 1
AC 20/30	AGN25-200 x 1
AC 30/30	AGN25-300 x 1
AC 30/50	AGN43-300 x 1
E006AC	AF08-026 x 1
E013AC	AF10-032 x 1
E025AC	AF10-046 x 1
E040AC	AF20-063 x 1
E085AC	AF20-102 x 1
E195AC	AF25-134 x 1
E295AC	AF25-254 x 1
E400AC	AF35-165 x 1
E500AC	AF43-252 x 1
E620AC	AF35-251 x 1
EZ1030AC	AZ07-020 x 1
EZ1050AC	AZ12-023 x 1
EZ1070AC	AZ12-029 x 1
EZ1140AC	AZ12-056 x 1
EZ2010AC	AZ20-046 x 1
EZ2020AC	AZ20-086 x 1
EZ2030AC	AZ20-126 x 1
EZ2050AC	AZ20-200 x 1
EZ3050AC	AZ27-200 x 1
EZ3075AC	AZ27-298 x 1
EZ5060AC	AZ46-239 x 1
EZ5075AC	AZ50-298 x 1
K145ACS	AF20-102 x 1
K220ACS	AF25-134 x 1
K330ACS	AF25-254 x 1
K430ACS	AF35-165 x 1

Filterite

Filterite Part Number	Finite® Part Number
Coalescer (Reverse Duo-Fine)	
10" Element	6CP15-100 x 2
20" Element	6CP15-198 x 2
Particulate 3u (Duo-Fine Afterfilter)	
10" Element	3PP15-100 x 2
20" Element	3PP15-198 x 2
Adsorber (Micro-Carbon - A)	
10" Element	AP15-100 x 2
20" Element	AP15-198 x 2

Filtersoft

Filtersoft Part Number	Finite® Part Number
F05013VE-T	10G04-013 x 10
F05013VE-W	10H04-013 x 10
F05013WE-T	8T04-013 x 10
F05013WE-W	8H04-013 x 10
F05013XE-T	6G04-013 x 10
F05013XE-W	6H04-013 x 10
F05023VE-T	10G04-023 x 10
F05023VE-W	10H04-023 x 10
F05023VH-TB	10T04-023 x 10
F05023WE-T	8T04-023 x 10
F05023WE-W	8H04-023 x 10
F05023XE-T	6G04-023 x 10
F05023XE-W	6H04-023 x 10
F05023XH-TB	6T04-023 x 10
F07013QE-CU	14JU07-013 x 10
F10020QE-CU	14JU10-020 x 10
F10020VE-W	10H10-020 x 8

Parker Hannifin Corporation
Filtration and Separation Division
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Filtersoft continued

Filtersoft Part Number	Finite® Part Number
F10020XE-W	6H10-020 x 8
F10025VE-T	10G10-025 x 10
F10025VE-W	10H10-025 x 8
F10025VH-TB	10T10-025 x 10
F10025WE-T	8T10-025 x 10
F10025WE-W	8H10-025 x 8
F10025XE-T	6G10-025 x 10
F10025XE-W	6H10-025 x 8
F10025XH-TB	6T10-025 x 10
F10050VE-W	10H10-050 x 4
F10050WE-W	8H10-050 x 4
F10050XE-W	6H10-050 x 4
F10070VE-T	10G10-070 x 10
F10070VE-W	10H10-070 x 4
F10070VH-TB	10T10-070 x 10
F10070WE-T	8T10-070 x 11
F10070WE-W	8H10-070 x 4
F10070XE-T	6G10-070 x 10
F10070XE-W	6H10-070 x 4
F10070XH-TB	6T10-070 x 10
F15043QE-CU	14JU15-043 x 10
F15060AU	AB15-060 x 4
F15060AU	AU15-060 x 4
F15060VE-T	10G15-060 x 10
F15060VE-W	10H15-060 x 4
F15060XE-W	6H15-060 x 4
F20035VE-W	10H20-035 x 4
F20035WE-W	8H20-035 x 4
F20035XE-W	6H20-035 x 4
F20090VE-T	10G20-090 x 10
F20090VE-W	10H20-090 x 2
F20090WE-W	8H20-090 x 2
F20090XE-T	6G20-090 x 10
F20090XE-W	6H20-090 x 2
F20187VE-T	10G20-187 x 10
F20187VE-W	10H20-187 x 1
F20187WE-W	8H20-187 x 1
F20187XE-T	6G20-187 x 10
F20187XE-W	6H20-187 x 1
F26075QE-CU	14JU26-075 x 4
F26120QE-CU	14JU26-120 x 4
F26240QE-CU	14JU26-240 x 4
FA1030AP-AB	AZ07-020 x 1
FA1030K-CB	3PZ07-020 x 1
FA1030WE-CB	10CZ07-020 x 1
FA1030XE-CB	8CZ07-020 x 1
FA1030YE-CB	6CZ07-020 x 1
FA1050AP-AB	AZ12-023 x 1
FA1050K-CB	3PZ12-023 x 1
FA1050WE-CB	10CZ12-023 x 1
FA1050XE-CB	8CZ12-023 x 1
FA1050YE-CB	6CZ12-023 x 1
FA1070AP-AB	AZ12-029 x 1
FA1070K-CB	3PZ12-029 x 1
FA1070WE-CB	10CZ12-029 x 1
FA1070XE-CB	8CZ12-029 x 1
FA1070YE-CB	6CZ12-029 x 1
FA1140AP-AB	AZ12-056 x 1
FA1140K-CB	3PZ12-056 x 1
FA1140WE-CB	10CZ12-056 x 1
FA1140XE-CB	8CZ12-056 x 1
FA1140YE-CB	6CZ12-056 x 1
FA2010AP-AB	AZ20-046 x 1
FA2010K-CB	3PZ20-046 x 1
FA2010WE-CB	10CZ20-046 x 1
FA2010XE-CB	8CZ20-046 x 1
FA2010YE-CB	6CZ20-046 x 1
FA2020AP-AB	AZ20-086 x 1
FA2020K-CB	3PZ20-086 x 1
FA2020WE-CB	10CZ20-086 x 1
FA2020XE-CB	8CZ20-086 x 1
FA2020YE-CB	6CZ20-086 x 1
FA2030AP-AB	AZ20-126 x 1
FA2030K-CB	3PZ20-126 x 1
FA2030WE-CB	10CZ20-126 x 1
FA2030XE-CB	8CZ20-126 x 1
FA2030YE-CB	6CZ20-126 x 1
FA2050AP-AB	AZ20-200 x 1
FA2050K-CB	3PZ20-200 x 1
FA2050WE-CB	10CZ20-200 x 1
FA2050XE-CB	8CZ20-200 x 1
FA2050YE-CB	6CZ20-200 x 1
FA3050AP-AB	AZ27-200 x 1
FA3050K-CB	3PZ27-200 x 1
FA3050WE-CB	10CZ27-200 x 1
FA3050XE-CB	8CZ27-200 x 1
FA3050YE-CB	6CZ27-200 x 1
FA3075AP-AB	AZ27-298 x 1
FA3075K-CB	3PZ27-298 x 1
FA3075WE-CB	10CZ27-298 x 1
FA3075XE-CB	8CZ27-298 x 1
FA3075YE-CB	6CZ27-298 x 1
FA5075AP-AB	AZ50-298 x 1
FA5075K-CB	3PZ50-298 x 1
FA5075WE-CB	10CZ50-298 x 1
FA5075WE-CB	10CZ50-298 x 1
FA5075XE-CB	8CZ50-298 x 1
FA5075YE-CB	6CZ50-298 x 1
FB302VE-CB	8CF20-099 x 2

Filtersoft continued

Filtersoft Part Number	Finite® Part Number
B303VE-CB	8CF20-147 x 1
FB304VE-CB	8CF20-197 x 1
FE006AAYE-CB	6CF08-026 x 1
FE006AOVE-CBM	10CF08-026 x 1
FE013AAYE-CB	6IF10-032 x 1
FE013AOVE-CBM	10IF10-032 x 1
FE025AAYE-CB	6IF10-046 x 1
FE025AOVE-CBM	10IF10-046 x 1
FE040AAYE-CB	6IF20-063 x 1
FE040AOVE-CBM	10IF20-063 x 1
FE085AAYE-CB	6IF20-102 x 1
FE085AOVE-CBM	10IF20-102 x 1
FE195AAYE-CB	6IF25-134 x 1
FE195AC-AB	AF25-134 x 1
FE195AOVE-CBM	10IF25-134 x 1
FE295AAYE-CB	6IF25-254 x 1
FE295AC-AB	AF25-254 x 1
FE295AOVE-CBM	10IF25-254 x 1
FE400AAYE-CB	6CF35-165 x 1
FE400AC-AB	AF35-165 x 1
FE400AOVE-CBM	10CF35-165 x 1
FE500AAYE-CB	6CF43-252 x 1
FE500AC-AB	AF43-252 x 1
FE500AOVE-CBM	10CF43-252 x 1
FH71311YE-CB	6CH25-260 x 1
FH7139YE-CB	6CH25-260 x 1
FH71511-AB	AH25-260 x 1
FH7159-AB	AH25-260 x 1
FH7319VE-CB	10CH25-260 x 1
FI1306XE-C	6C85-250 x 1
FI1355XE-C	6C85-250 x 1
FI1645XE-C	6C85-360 x 1
FI1777XE-C	6C85-360 x 1
FN10DXE-CB	6IR04-019 x 4
FN20DXE-CB	6IR08-019 x 4
FN30DXE-CB	6IR10-034 x 4
FP14051J-PB	3PP14-051 x 4
FP14051XE-CB	6QP14-051 x 4
FP19098J-PU	3PP19-098 x 2
FP19098VH-RS	10DP19-098 x 2
FP19098VH-RSI	10DPS19-098 x 2
FP19098XE-CU	6QP19-098 x 2
FP19098XE-DB	6QP19-098 x 2
FP19098XK-CB	6QP19-098 x 2
FP19198J-PU	3PP19-198 x 2
FP19198VH-RS	10DP19-198 x 2
FP19198VH-RSI	10DPS19-198 x 2
FP19198XE-CU	6QP19-198 x 2
FP19198XE-DB	6QP19-198 x 2
FP19298XE-CU	6QP19-298 x 1
FP19298XE-DB	6QP19-298 x 1
FP26132J-PU	3PP26-132 x 2
FP26132VH-RS	10DP26-132 x 2
FP26132XK-CBI	6QP28-132 x 2
FP26132XK-CU	6QP28-132 x 2
FP26132XK-CUI	6QPS28-132 x 2
FP26265J-PU	3PP26-265 x 1
FP26265VH-RS	10DP26-265 x 1
FP26265XK-CU	6QP28-265 x 1
FP30142J-PB	3PP30-143 x 1
FP30142J-PBI	3PP30-143 x 1
FP30142VH-RV	10DP30-143 x 1
FP30142VH-RVI	10DPS30-143 x 1
FP30142XE-CB	6QP30-143 x 1
FP30142XE-CBI	6QPS30-143 x 1
FP30295J-PB	3PP30-295 x 1
FP30295J-PBI	3PP30-295 x 1
FP30295VH-RV	10DP30-295 x 1
FP30295VH-RVI	10DPS30-295 x 1
FP30295XE-CB	6QP30-295 x 1
FP30295XE-CBI	6QPS30-295 x 1
FS1357YE-CB	6CJ25-120 x 2
FS1358YE-CB	6CJ25-120 x 2
FS1359YE-CB	6CJ25-240 x 1
FS1360YE-CB	6CJ25-240 x 1
FS1361YE-CB	6CJ25-240 x 1
FS1362YE-CB	6CJ25-240 x 1
FS1367YE-CB	6CJ25-240 x 1
FS1368YE-CB	6CJ25-240 x 1
FS1370-AB	AJ25-240 x 1
FS1372-AB	AJ25-120 x 2
FS1373-AB	AJ25-120 x 2
FS1375-AB	AJ25-240 x 1
FS1377-AB	AJ25-240 x 1
FS1378-AB	AJ25-240 x 1
FS1379-AB	AJ25-240 x 1
FS1407YE-CB	6CJ25-120 x 2
FS1408YE-CB	6CJ25-240 x 1
FS1412-AB	AJ25-120 x 2
FS1413-AB	AJ25-240 x 1
FS1413YE-CB	6CJ25-240 x 1
FS1418-AB	AJ25-240 x 1
FS5025-AB	AJ25-240 x 1
FS5027-AB	AJ25-240 x 1
FUF0205WE-CB	10HJN08-024 x 1
FUF0305WE-CB	10HJN08-030 x 1
FUF0310WE-CB	10CJN10-030 x 1
FUF0410WE-CB	10CJN10-040 x 1
FUF0420WE-CB	10CJN13-040 x 1
FUF0520WE-CB	10CJN13-050 x 1
FUF0525WE-CB	10IJN15-050 x 1
FUF0725WE-CB	10IJN15-070 x 1

Filtersoft continued

Filtersoft Part Number	Finite® Part Number
FUF0730WE-CB	10IJN25-070 x 1
FUF1030WE-CB	10IJN25-100 x 1
FUF103WE-CB	10IJ25-100 x 1
FUF1530WE-CB	10IGN25-150 x 1
FUF153WE-CB	10IG25-150 x 1
FUF2030WE-CB	10IGN25-200 x 1
FUF203WE-CB	10IG25-200 x 1
FUF3030WE-CB	10IGN25-300 x 1
FUF303WE-CB	10IG25-300 x 1
FUF3050WE-CB	10QGN43-300 x 1
FUF305WE-CB	10QG43-300 x 1
FUF315WE-CB	10CJ13-030 x 1
FUF31WE-CB	10CJ10-030 x 1
FUF415WE-CB	10CJ13-044 x 1
FUF425WE-CB	10IJ15-040 x 1
FUF525WE-CB	10IJN15-050 x 1
FUF53WE-CB	10IJ25-050 x 1
FUK0205-AB	AJN08-024 x 1
FUK0305-AB	AJN08-030 x 1
FUK0310-AB	AJN10-030 x 1
FUK0410-AB	AJN10-040 x 1
FUK0420-AB	AJN13-040 x 1
FUK0520-AB	AJN13-050 x 1
FUK0525-AB	AJN15-050 x 1
FUK0725-AB	AJN15-070 x 1
FUK0730-AB	AJN25-070 x 1
FUK103-AB	AJ25-100 x 1
FUK1030-AB	AJN25-100 x 1
FUK153-AB	AG25-150 x 1
FUK1530-AB	AGN25-150 x 1
FUK203-AB	AG25-200 x 1
FUK2030-AB	AGN25-200 x 1
FUK303-AB	AG25-300 x 1
FUK3030-AB	AGN25-300 x 1
FUK305-AB	AG43-300 x 1
FUK3050-AB	AGN43-300 x 1
FUK31-AB	AJ10-030 x 1
FUK315-AB	AJ13-030 x 1
FUK415-AB	AJ13-044 x 1
FUK425-AB	AJ15-040 x 1
FUK525-AB	AJN15-050 x 1
FUK53-AB	AJ25-050 x 1
FUM0205XE-CB	6HJN08-024 x 1
FUM0305XE-CB	6HJN08-030 1
FUM0310XE-CB	6CJN10-030 x 1
FUM0410XE-CB	6CJN10-040 x 1
FUM0420XE-CB	6CJN13-040 x 1
FUM0520XE-CB	6CJN13-050 x 1
FUM0525XE-CB	6IJN15-050 x 1
FUM0725XE-CB	6IJN15-070 x 1
FUM0730XE-CB	6IJN25-070 x 1
FUM1030XE-CB	6IJN25-100 x 1
FUM103XE-CB	6IJ25-100 x 1
FUM1530XE-CB	6IGN25-150 x 1
FUM153XE-CB	6IG25-150 x 1
FUM2030XE-CB	6IGN25-200 x 1
FUM203XE-CB	6IG25-200 x 1
FUM3030XE-CB	6IGN25-300 x 1
FUM303XE-CB	6IG25-300 x 1
FUM3050XE-CB	6QGN43-300 x 1
FUM3050XE-CB	6QGN43-300 x 1
FUM305XE-CB	6QG43-300 x 1
FUM315XE-CB	6CJ13-030 x 1
FUM31XE-CB	6CJ10-030 x 1
FUM415XE-CB	6CJ13-044 x 1
FUM425XE-CB	6IJ15-040 x 1
FUM525XE-CB	6IJN15-050 x 1
FUM53XE-CB	6IJ25-050 x 1
FUS0205YE-CB	4HJN08-024 x 1
FUS0305YE-CB	4HJN08-030 x 1
FUS0310YE-CB	4CJN10-030 x 1
FUS0410YE-CB	4CJN10-040 x 1
FUS0420YE-CB	4CJN13-040 x 1
FUS0520YE-CB	4CJN13-050 x 1
FUS0525YE-CB	4IJN15-050 x 1
FUS0725YE-CB	4IJN15-070 x 1
FUS0730YE-CB	4IJN25-070 x 1
FUS1030YE-CB	4IJN25-100 x 1
FUS103YE-CB	4IJ25-100 x 1
FUS1530YE-CB	4IGN25-150 x 1
FUS153YE-CB	4IG25-150 x 1
FUS2030YE-CB	4IGN25-200 x 1
FUS203YE-CB	4IG25-200 x 1
FUS3030YE-CB	4IGN25-300 x 1
FUS303YE-CB	4IG25-300 x 1
FUS3050YE-CB	4QGN43-300 x 1
FUS305YE-CB	4QG43-300 x 1
FUS315YE-CB	4CJ13-030 x 1
FUS31YE-CB	4CJ10-030 x 1
FUS415YE-CB	4CJ13-044 x 1
FUS425YE-CB	4IJ15-040 x 1
FUS525YE-CB	4IJN15-050 x 1
FUS53YE-CB	4IJ25-050 x 1
FV1500VE-CB	10ICC25-240 x 1
FV1500VE-SBM	10DC25-240 x 1
FV1500VH-SBM	10DC25-240 x 1
FV1500XE-CB	8ICC25-240 x 1
FV1500XE-SBM	8DC25-240 x 1
FV1500ZE-CB	6ICC25-240 x 1
FV1500ZE-SBM	6DC25-240 x 1

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Filtersoft continued

Filtersoft	Finite®
Part Number	**Part Number**
FV15XE-CB2	6CC15-150 x 2
FV15ZE-CB2	2CC15-150 x 2
FV1625VE-CB	10ICC25-300 x 1
FV1625VE-SBM	10DC25-300 x 1
FV1625VH-SBM	10DC25-300 x 1
FV1625XE-CB	8ICC25-300 x 1
FV1625XE-SBM	8DC25-300 x 1
FV1625ZE-CB	6ICC25-300 x 1
FV1625ZE-SBM	6DC25-300 x 1
FV22XE-CB	6ICC25-220 x 1
FV22ZE-CB	2ICC25-220 x 1
FV860XE-CB	6CC15-060 x 2
FV860ZE-CB	2CC15-060 x 2
FV8XE-CB	6CC15-080 x 2
FV8ZE-CB	2CC15-080 x 2
FVKE15H-RSA	10DC15-150 x 2
FVKE15J-PB	3PC15-150 x 2
FVKE22H-RSA	10DC25-220 x 1
FVKE22J-PB	3PCC25-220 x 1
FVKE6J-PB	3PC15-080 x 2
FVKEJ-PB	3PC15-060 x 2
FW532-AS	AK15-052 x 4
FW534-AB	AK25-238 x 1
FW535-AB	AL25-063 x 2
FW538-AB	AK35-074 x 2
FW540-AB	AL10-024 x 4
FW548YE-CB	6HL10-021 x 4
FW549YE-CB	6CL10-024 x 4
FW550YE-CB	6CU10-052 x 4
FW551YE-CS	6CK15-052 x 4
FW552YE-CB	6CL25-063 x 2
FW553YE-CB	6CK35-074 x 2
FW554YE-CB	6CK25-119 x 2
FW555YE-CB	6CK25-238 x 1
FW556WE-CB	8CK25-119 x 2
FW557WE-CB	8CK25-238 x 1
FW558-AB	AK25-080 x 2
FW559YE-CB	6CK25-080 x 2
FW560YE-CBA	6CK35-074 x 2
FW561YE-CBA	6CK35-106 x 1
FW562YE-CBA	6CK35-172 x 1
FW563-ABA	AK35-074 x 2
FW564-ABA	AK35-106 x 1
FW565-ABA	AK35-172 x 1
FW874WE-CBA	8CK35-074 x 2
FW875WE-CBA	8CK35-106 x 1
FW876WE-CBA	8CK35-172 x 1
FW988WE-CB	8HL10-021 x 4
FW989WE-CB	8CL10-024 x 4
FW992WE-CS	8CK15-052 x 4

Filtersoft	Finite®	
Part Number	**Part Number**	
Filtersoft (Elements that require kits)		
FH7132YE-CB	6CM10-025 x 8	KX-21
FH7133YE-CB	6CM10-050 x 4	KX-22
FH7134YE-CB	6CM15-060 x 4	KX-23
FH7135YE-CB	6CM15-095 x 2	KX-24
FH7136YE-CB	6CM15-185 x 2	KX-25
FH7137YE-CB	6CU25-187 x 1	KX-2
FH7138YE-CB	6CU25-187 x 1	KX-2
FH7152-AB	AM10-025 x 8	KX-21
FH7153-AB	AM10-050 x 4	KX-22
FH7154-AB	AM15-060 x 4	KX-23
FH7155-AB	AM15-095 x 2	KX-24
FH7156-AB	AM15-185 x 2	KX-25
FH7157-AB	AU25-187 x 1	KX-2
FH7158-AB	AU25-187 x 1	KX-2
FH7313VE-CB	10CM10-025 x 8	KX-21
FH7314VE-CB	10CM10-050 x 4	KX-22
FH7315VE-CB	10CM15-060 x 4	KX-23
FH7316VE-CB	10CM15-095 x 1	KX-24
FH7317VE-CB	10CM15-185 x 2	KX-25
FH7318VE-CB	10CU25-187 x 1	KX-2
Kits are required for initial conversion only		

Flair

Flair	Finite®
Part Number	**Part Number**
DH006AA	6CF08-026 x 1
DH006AC	AF08-026 x 1
DH006AO	10CF08-026 x 1
DH013AA	6IF10-032 x 1
DH013AC	AF10-032 x 1
DH013AO	10IF10-032 x 1
DH025AA	6IF10-046 x 1
DH025AC	AF10-046 x 1
DH025AO	10IF10-046 x 1
DH040AA	6IF20-063 x 1
DH040AC	AF20-063 x 1
DH040AO	10IF20-063 x 1
DH085AA	6IF20-102 x 1
DH085AC	AF20-102 x 1
DH085AO	10IF20-102 x 1
DH195AA	6IF25-134 x 1
DH195AC	AF25-134 x 1
DH195AO	10IF25-134 x 1
DH295AA	6IF25-254 x 1
DH295AC	AF25-254 x 1
DH295AO	10IF25-254 x 1
DH400AA	6CF35-165 x 1
DH400AC	AF35-165 x 1
DH400AO	10CF35-165 x 1

Flair continued

Flair Part Number	Finite® Part Number
DH500AA	6CF43-252 x 1
DH500AC	AF43-252 x 1
DH500AO	10CF43-252 x 1
HK71311C	6CH25-260 x 1
HK7319P	10CH25-260 x 1
UFAK0205	AJN08-024 x 1
UFAK0305	AJN08-030 x 1
UFAK0310	AJN10-030 x 1
UFAK0410	AJN10-040 x 1
UFAK0420	AJN13-040 x 1
UFAK0520	AJN13-050 x 1
UFAK0525	AJN15-050 x 1
UFAK0725	AJN15-070 x 1
UFAK0730	AJN25-070 x 1
UFAK1030	AJN25-100 x 1
UFAK1530	AGN25-150 x 1
UFAK2030	AGN25-200 x1
UFAK3030	AGN25-300 x 1
UFAK3050	AGN43-300 x 1
UFFF0205	10HJN08-024 x 1
UFFF0305	10HJN08-030 x 1
UFFF0310	10CJN10-030 x 1
UFFF0410	10CJN10-040 x 1
UFFF0420	10CJN13-040 x 1
UFFF0520	10CJN13-050 x 1
UFFF0525	10IJN15-050 x 1
UFFF0725	10IJN15-070 x 1
UFFF0730	10IJN25-070 x 1
UFFF1030	10IJN25-100 x 1
UFFF1530	10IGN25-150 x 1
UFFF2030	10IGN25-200 x 1
UFFF3030	10IGN25-300 x 1
UFFF3050	10QGN43-300 x 1
UFMF0205	6HJN08-024 x 1
UFMF0305	6HJN08-030 x 1
UFMF0310	6CJN10-030 x 1
UFMF0410	6CJN10-040 x 1
UFMF0420	6CJN13-040 x 1
UFMF0520	6CJN13-050 x 1
UFMF0525	6IJN15-050 x 1
UFMF0725	6IJN15-070 x 1
UFMF0730	6IJN25-070 x 1
UFMF1030	6IJN25-100 x 1
UFMF1530	6IGN25-150 x 1
UFMF2030	6IGN25-200 x 1
UFMF3030	6IGN25-300 x 1
UFMF3050	6QGN43-300 x 1
UFPE0205	12GJN08-024 x 1
UFPE0305	12GJN08-030 x 1
UFPE0310	3PJN10-030 x 1
UFPE0410	3PJN10-040 x 1
UFPE0420	3PJN13-040 x 1
UFPE0520	3PJN13-050 x 1
UFPE0525	3PJN15-050 x 1
UFPE0725	3PJN15-070 x 1
UFPE0730	3PJN25-070 x 1
UFPE1030	3PJN25-100 x 1
UFPE1530	3PGN25-150 x 1
UFPE2030	3PGN25-200 x 1
UFPE3030	3PGN25-300 x 1
UFPE3050	3PGN43-300 x 1
UFSMF0205	4HJN08-024 x 1
UFSMF0305	4HJN08-030 x 1
UFSMF0310	4CJN10-030 x1
UFSMF0410	4CJN10-040 x 1
UFSMF0420	4CJN13-040 x 1
UFSMF0520	4CJN13-050 x 1
UFSMF0525	4IJN15-050 x 1
UFSMF0725	4IJN15-070 x 1
UFSMF0730	4IJN25-070 x 1
UFSMF1030	4IJN25-100 x 1
UFSMF1530	4IGN25-150 x 1
UFSMF2030	4IGN25-200 x 1
UFSMF3030	4IGN25-300 x 1
UFSMF3050	4QGN43-300 x 1
VCE15	6CC15-150 x 2
VCE22	6ICC25-220 x 1
VCE8100	6CC15-080 x 2
VCE860	6CC15-060 x 2
VCXE15	2CC15-150 x 2
VCXE22	2ICC25-220 x 1
VCXE8100	2CC15-080 x 2
Z2010Y	8CZ20-046 x 1
Z2010Z	10CZ20-046 x 1
Z2020A	AZ20-086 x 1
Z2020V	3PZ20-086 x 1
Z2020X	6CZ20-086 x 1
Z2020Y	8CZ20-086 x 1
Z2020Z	10CZ20-086 x 1
Z2030A	AZ20-126 x 1
Z2030V	3PZ20-126 x 1
Z2030X	6CZ20-126 x 1
Z2030Y	8CZ20-126 x 1
Z2030Z	10CZ20-126 x 1
Z2050A	AZ20-200 x 1
Z2050V	3PZ20-200 x 1
Z2050X	6CZ20-200 x 1
Z2050Y	8CZ20-200 x 1
Z2050Z	10CZ20-200 x 1
Z3050A	AZ27-200 x 1

Flair continued

Flair Part Number	Finite® Part Number
Z3050V	3PZ27-200 x 1
Z3050X	6CZ27-200 x 1
Z3050Y	8CZ27-200 x 1
Z3050Z	10CZ27-200 x 1
Z3075A	AZ27-298 x 1
Z3075V	3PZ27-298 x 1
Z3075X	6CZ27-298 x 1
Z3075Y	8CZ27-298 x 1
Z3075Z	10CZ27-298 x 1
Z5075A	AZ50-298 x 1
Z5075V	3PZ50-298 x 1
Z5075X	6CZ50-298 x 1
Z5075Y	8CZ50-298 x 1
Z5075Z	10CZ50-298 x 1
VCXE860	2CC15-060 x 2
VE111250B	8ICC25-240 x 1
VE11125RB	8DC25-240 x 1
VE111265B	8ICC25-300 x 1
VE111265RB	8DC25-300 x 1
VKE15	3PC15-150 x 2
VKE15HT	10DC15-150 x 2
VKE22	3PCC25-220 x 1
VKE22HT	10DC25-220 x 1
VKE6100	3PC15-080 x 2
VKE660	3PC15-060 x 2
Z1050A	AZ12-023 x 1
Z1050V	3PZ12-023 x 1
Z1050X	6CZ12-023 x 1
Z1050Y	8CZ12-023 x 1
Z1050Z	10CZ12-023 x 1
Z1070A	AZ12-029 x 1
Z1070V	3PZ12-029 x 1
Z1070X	6CZ12-029 x 1
Z1070Y	8CZ12-029 x 1
Z1070Z	10CZ12-029 x 1
Z1140A	AZ12-056 x 1
Z1140V	3PZ12-056 x 1
Z1140X	6CZ12-056 x 1
Z1140Y	8CZ12-056 x 1
Z1140Z	10CZ12-056 x 1
Z2010A	AZ20-046 x 1
Z2010V	3PZ20-046 x 1
Z2010X	6CZ20-046 x 1
Z2010Y	8CZ20-046 x 1
Z2010Z	10CZ20-046 x 1
Z2020A	AZ20-086 x 1
Z2020V	3PZ20-086 x 1

Flair Part Number	Finite® Part Number	
Flair (elements that require kits)		
HK71312C	6CU25-187 x 1	KX-2
HK7132C	6CM10-025 x 8	KX-21
HK7133C	6CM10-050 x 4	KX-22
HK7134C	6CM15-060 x 4	KX-23
HK7135C	6CM15-095 x 2	KX-24
HK7136C	6CM15-185 x 2	KX-25
HK7137C	6CU25-187 x 1	KX-2
HK7313P	10CM10-025 x 8	KX-21
HK7314P	10CM10-050 x 4	KX-22
HK7315P	10CM15-060 x 4	KX-23
HK7316P	10CM15-095 x 2	KX-24
HK7317P	10CM15-185 x 2	KX-25
HK7318P	10CU25-187 x 1	KX-2
Kits are required for initial conversion only.		

Hankison

Hankison Part Number	Finite® Part Number	Kit Required
Oil Removal (Air Line Filter)		
0731-3	10CM10-025 x 8	KX-21
0731-4	10CM10-050 x 4	KX-22
0731-5	10CM15-060 x 4	KX-23
0731-6	10CM15-095 x 2	KX-24
0731-7	10CM15-185 x 2	KX-25
0731-8	10CU25-187 x 1	KX-2
0731-9*	10CH25-260 x 1	
E7-12	10CH10-020 x 1	
E7-16	10CH10-036 x 1	
E7-20	10CH10-060 x 1	
E7-24	10CH16-066 x 1	
E7-28	10CH16-108 x 1	
E7-32	10CH19-131 x 1	
E7-36	10CH19-176 x 1	
E7-40	10CH25-204 X 1	
E7-44	10CH25-265 X 1	
Ultra High Efficiency Oil Removal Filters		
E3-12	2CH10-020 X 1	
E3-16	2CH10-036 X 1	
E3-20	2CH10-060 X 1	
E3-24	2CH16-066 X 1	
E3-28	2CH16-108 X 1	
E3-32	2CH19-131 X 1	
E3-36	2CH19-176 X 1	
E3-40	2CH25-204 X 1	
E3-44	2CH25-265 X 1	
Aerolescer (High Efficiency Oil Removal Filters)		
0713-2	6CM10-025 x 8	KX-21
0713-3	6CM10-050 x 4	KX-22
0713-4	6CM15-060 x 4	KX-23
0713-5	6CM15-095 x 2	KX-24

Hankison continued

Hankison Part Number	Finite® Part Number	Kit Required
0713-6	6CM15-185 x 2	KX-25
0713-7	6CU25-187 x 1	KX-2
0713-8	6CU25-187 x 1	KX-2
0713-9	6CH25-260 x 1	
0713-11*	6CH25-260 x 1	
0713-12*	6CU25-187 x 1	KX-3
E5-12	6CH10-020 X 1	
E5-16	6CH10-036 X 1	
E5-20	6CH10-060 X 1	
E5-24	6CH16-066 X 1	
E5-28	6CH16-108 X 1	
E5-32	6CH19-131 X 1	
E5-36	6CH19-176 X 1	
E5-40	6CH25-204 X 1	
E5-44	6CH25-265 X 1	
Hypersorb (Oil Vapor Removal Filter)		
0715-2	AM10-025 x 8	KX-21
0715-3	AM10-050 x 4	KX-22
0715-4	AM15-060 x 4	KX-23
0715-5	AM15-095 x 2	KX-24
0715-6	AM15-185 x 2	KX-25
0715-7	AU25-187 x 1	KX-2
0715-8	AU25-187 x 1	KX-2
0715-9	AH25-260 x 1	
0715-11*	AH25-260 x 1	
E1-12	AH10-020 X 1	
E1-16	AH10-036 X 1	
E1-20	AH10-060 X 1	
E1-24	AHC16-066 X 1	
E1-28	AHC16-108 X 1	
E1-32	AHC19-131 X 1	
E1-36	AHC19-176 X 1	
E1-40	AHC25-204 X 1	
E1-44	AHC25-265 X 1	
Accumax (High Temperature Afterfilter)		
0740-4	10DH25-260 x 1	
Centriflex (Separator/Filter)		
E9-12	100WS10-020 X 1	
E9-16	100WS10-036 X 1	
E9-20	100WS10-060 X 1	
E9-24	100WS16-066 X 1	
E9-28	100WS16-108 X 1	
E9-32	100WS19-131 X 1	
E9-36	100WS19-176 X 1	
E9-40	100WS25-204 X 1	
E9-44	100WS25-265 X 1	

*indicated number of elements required

Kits are required for initial conversion only

Headline

Headline Part Number	Finite® Part Number
12-16-70C	10H04-006 x 10
12-16-50C	6H04-006 x 10
12-16-70K	10S04-006 x 10
12-16-50C	6S04-006 x 10
12-32-70C	10H04-013 x 10
12-57-70C	10H04-023 x 10
25-64-70C	10H10-025 x 8
25-127-70C	10H10-050 x 4
25-178-70C	10H10-070 x 4
38-152-70C	10H15-060 x 4
51-89-70C	10H20-035 x 4
51-230-70C	10H20-090 x 2
51-476-70C	10H20-187 x 1
12-32-50C	6H04-013 x 10
12-57-50C	6H04-023 x 10
25-64-50C	6H10-025 x 8
25-127-50C	6H10-050 x 4
25-178-50C	6H10-070 x 4
38-152-50C	6H15-060 x 4
51-89-50C	6H20-035 x 4
51-230-50C	6H20-090 x 2
51-476-50C	6H20-187 x 1
12-32-70K	10T04-013 x 10
12-57-70K	10T04-023 x 10
25-64-70K	10T10-025 x 10
25-178-70K	10T10-070 x 10
38-152-70K	10T15-060 x 10
51-230-70K	10T20-090 x 10
51-476-70K	10T20-187 x 10
12-32-50K	6T04-013 x 10
12-57-50K	6T04-023 x 10
25-64-50K	6T10-025 x 10
25-178-50K	6T10-070 x 10
38-152-50K	6T15-060 x 10
51-230-50K	6T20-090 x 10
51-476-50K	6T20-187 x 10

Henderson

Henderson Part Number	Finite® Part Number	Kit Required
Coalescer (Dryer Pre-filter)		
8D20	6CN10-028 x 8	KX-10
8D28	6CN10-038 x 4	KX-11
16D33	6CU19-050 x 2	KX-12
16D50	6CU19-070 x 2	KX-13
16D100	6CU19-130 x 2	KX-14
16D150	6CU19-187 x 1	KX-16
0812-1	6CE63-118 x 1	

Henderson continued

Henderson Part Number	Finite® Part Number	Kit Required
Particulate (Dryer After-Filter 3 Micron)		
SB4	3PN10-038 x 4	KX-11
SB12	3PU19-050 x 2	KX-12
245-3	3PE15-050 x 4	
0812-1	3PE63-118 x 1	
Particulate - High Temp 450° F		
Dryer After - Filter 0.9 Micron		
F350 (450° F)	10DS19-187 x 1	KX-16H
F350 (350° F)	3PS19-187 x 1	KX-16H

Kits are required for initial conversion only

Ingersoll Rand

Ingersoll Rand Part Number	Finite® Part Number
40011355(NL-3)	6C85-250 x 1
40011306(NL-4)	6C85-250 x 1
40011645(NL-5)	6C85-360 x 1
40011777(NL-6)	6C85-360 x 1

Johnson Controls

Johnson Controls Part Number	Finite® Part Number
A4000-627	4CL10-024 x 8
A4000-604	4CL10-024 x 8
A4000-628	4CL10-053 x 4
A4000-605	4CL10-053 x 4
A4000-629	6CL25-063 x 2
A4000-606	6CL25-063 x 2
A4000-135	IDTF-O x 10*

Norgren

Norgren Part Number	Finite® Part Number
665-88	6CN25-080 x 2

Numatics

Numatics Part Number	Finite® Part Number
EKF10D	6IR04-019 x 4
EKF20D	6IR08-019 x 4
EKF30D	6IR10-034 x 4

Pall/PPC

Pall/PPC Part Number	Finite® Part Number
Reverse Ultipore (Coalescing Pre-Filter for Dryer)	
MCC-1001SU	6QP19-098 x 2
MCC-1002SU	6QP19-198 x 2
MCC-1201SU	6QP28-132 x 2
MCC-1202SU	6QP28-265 x 1
MCC-4463SU	6QP14-051 x 4
MCS-1001SU	6QP19-098 x 2
MCS-4463SU	6QP14-051 x 4
MDC-1001SU	6QP19-098 x 2
MDC-1201SU	6QP28-132 x 2
MDC-1202SU	6QP28-265 x 1
MDC-4463SU	6QP14-051 x 4
MDS-1001SU	6QP19-098 x 2
MDS-1201SU	6QPS28-132 x 2
MDS-4463SU	6QP14-051 x 4
OL-5C	6QP14-051 x 4
OL-9C	6QP19-098 x 2
PCC-1001SU	6QP19-098 x 2
PCC-1002SU	6QP19-198 x 2
PCC-1003SU	6QP19-298 x 1
PCC-1200SU	6QP30-295 x 1
PCC-1201SU	6QP28-132 x 2
PCC-1202SU	6QP28-265 x 1
PCC-350SU	6QP30-143 x 1
PCC-4463SU	6QP14-051 x 4
PCC-600SU	6QP30-140 x 1
PCC-700SU	6QP30-295 x 1
PCS-1001SU	6QP19-098 x 2
PCS-060AF	3PP14-051 x 4
PCS-1002AF	3PP19-198 x 2
PCS-1002SU	6QP19-198 x 2
PCS-350SU	6QPS30-143 x 1
PCS-4463SU	6QP14-051 x 4
PCS-700SU	6QPS30-295 x 1
POC-035SU	6QP14-051 x 4
POC-060SU	6QP14-051 x 4
POC-1001SU	6QP19-098 x 2
POC-1201SU	6QP28-132 x 2
POC-1200SU	6QP30-295 x 1
POC-600SU	6QP30-140 x 1
POS-600SU	6QPS30-140 x 1
POS-700SU	6QPS30-295 x 1
POS-1001SU	6QPS19-098 x 2
POS-1201SU	6QPS28-132 x 1
PPC-1200SU	6QP30-295 x 1
PPC-1201SU	6QP28-132 x 2
PPC-1202SU	6QP28-265 x 1
PPC-350SU	6QP30-143 x 1
PPC-700SU	6QP30-295 x 1
PPY-1001SU	6QP19-098 x 2
PPY-1002SU	6QP19-198 x 2
PPY-1003SU	6QP19-298 x 1
Low Temp (225°F) 3 Micron Particulate After-Filter	
MCS-4463AF	3PP14-051 x 4
MCS-4463EC	3PP14-051 x 4

Pall/PPC continued

Pall/PPC Part Number	Finite® Part Number
MDC-1001AF	3PP19-098 x 2
MDC-1002AF	3PP19-198 x 2
MDC-1201AF	3PP26-132 x 2
MDC-1202EC	3PP26-265 x 1
MDC-4463AF	3PP14-051 x 4
PCC-060AF	3PP14-051 x 4
PCC-350AF	3PP30-143 x 1
PCC-600AF	3PP30-140 x 1
PCC-700AF	3PP30-295 x 1
PCC-1001AF	3PP19-098 x 2
PCC-1002AF	3PP19-198 x 2
PCC-1003AF	3PP19-298 x 1
PCC-1200AF	3PP30-295 x 1
PCC-1201AF	3PP26-132 x 2
PCC-1202EC	3PP26-265 x 1
PCC-4463AF	3PP14-051 x 4
PCS-1001AF	3PP19-098 x 2
PCS-4463AF	3PP14-051 x 4
High Temp (425° F) 0.9 Micron Particulate	
MCC-1001HT	10DP19-098 x 2
MCC-1002HT	10DP19-198 x 2
MCC-1201HT	10DP26-132 x 2
MCC-1202HT	10DP26-265 x 1
MCS-1001HT	10DPS19-098 x 2
MCS-1002HT	10DPS19-198 x 2
MDC-1001HT	10DP19-098 x 2
MDC-1002HT	10DP19-198 x 2
MDC-1201HT	10DP26-132 x 2
MDC-1202HT	10DP26-265 x 1
MDS-1001HT	10DPS19-098 x 2
MDS-1002HT	10DPS19-198 x 2
PCC-1001HT	10DP19-098 x 2
PCC-1002HT	10DP19-198 x 2
PCC-1003HT	10DP19-298 x 1
PCC-1200HT	10DP30-295 x 1
PCC-1201HT	10DP26-132 x 2
PCC-1202HT	10DP26-265 x 1
PCC-350HT	10DP30-143 x 1
PCC-600HT	10DP30-140 x 1
PCC-700HT	10DP30-295 x 1
PCS-1001HT	10DPS19-098 x 2
PCS-1002HT	10DPS19-198 x 2
PCS-1200HT	10DPS30-295 x 1
PCS-350HT	10DPS30-143 x 1
PCS-700HT	10DPS30-295 x 1
Petrosorb Ultipore Carbon Adsorber	
MCS-1001CE	AP19-098 x 2
MDC-1001CE	AP19-098 x 2
MDC-1001CV	AP19-098 x 2
MDC-1001SAU	AP19-098 x 2
MDC-1002SAU	AP19-198 x 2
MDC-1201SAU	AP26-132 x 2
MDC-1202SAU	AP26-265 x 1
MDC-4463SAU	AP14-051 x 4
Natural Gas Coalescing Filter	
CC05LGH13B	6IP15-052 x 4
CC1LG7A	6CPC20-098 x 1
CC3LG7A	7CPP20-290 x 1
CC3LG02H13	7CRP20-290 x 1

Pure Air

Pure Air Part Number	Finite® Part Number	Kit Required	Elements Required
Puretech			
1350	8DU51-100 x 1	KV-22	1
1351	8DU51-128 x 1	KV-22	1
1352	8DU78-165 x 1	KV-24	1
1353	8CU145-200 x 1		1
Purelescer			
1357	6CJ25-120 x 2		2
1358	6CJ25-120 x 2		3
1359	6CJ25-240 x 1		3
1360	6CJ25-240 x 1		4
1361	6CJ25-240 x 1		5
1362	6CJ25-240 x 1		6
1367	6CJ25-240 x 1		7
1368	6CJ25-240 x 1		8
1406	6CN25-080 x 2		1
1407	6CJ25-120 x 2		1
1408	6CJ25-240 x 1		1
1408	6CJ25-240 x 1		10
Pureadsorber			
1370	AJ25-240 x 1		3
1370	AJ25-240 x 1		5
1372	AJ25-120 x 2		2
1373	AJ25-120 x 2		3
1375	AJ25-240 x 1		4
1377	AJ25-240 x 1		6
1378	AJ25-240 x 1		7
1379	AJ25-240 x 1		8
1411	AJ25-080 x 2		1
1412	AJ25-120 x 2		1
1413	AJ25-240 x 1		1
1418	AJ25-240 x 1		10

Note: Closure end cap O-rings are included for all elements. Kits are required for initial conversion only.

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Steris

Steris	Finite®
Part Number	**Part Number**
129360-802	6G10-025 x 10

Sullair

Sullair	Finite®
Part Number	**Part Number**
250024-423	10CF08-026 x 1
250024-424	10IF10-032 x 1
250024-425	10IF10-046 x 1
250024-426	10IF20-063 x 1
250024-427	10IF20-102 x 1
250024-428	10IF25-134 x 1
250024-429	10IF25-254 x 1
250030-644	10CF35-165 x 1
250024-430	10CF35-251 x 1
250024-431	6CF08-026 x 1
250024-432	6IF10-032 x 1
250024-433	6IF10-046 x 1
250024-434	6IF20-063 x 1
250024-435	6IF20-102 x 1
250024-436	6IF25-134 x 1
250024-437	6IF25-254 x 1
250024-438	6CF35-251 x 1

Ultra Air

Ultra Air	Finite®
Part Number	**Part Number**
EC100P	6CM15-060 x 4

Ultrafilter

Finite's *unique vacuum formed UNI-CAST element construction offers a graduated pore structure throughout the depth of the filter media.*

Ultrafilter	Finite®
Part Number	**Part Number**
80 Series	
Prefilters	
V-PE 3/1	3PJ10-030 x 1
V-PE 3/1,5	3PJ13-030 x 1
V-PE 4/1,5	3PJ13-044 x 1
V-PE 4/2,5	3PJ15-040 x 1
V-PE 5/2,5	3PJN15-050 x 1
V-PE 5/3	3PJ25-050 x 1
V-PE 10/3	3PJ25-100 x 1
V-PE 15/3	3PG25-150 x 1
V-PE 20/3	3PG25-200 x 1
V-PE 30/3	3PG25-300 x 1
V-PE 30/5	3PG43-300 x 1
Fine Filters	
FF 3/1	10CJ10-030 x 1
FF 3/1,5	10CJ13-030 x 1
FF 4/1,5	10CJ13-044 x 1
FF 4/2,5	10IJ15-040 x 1
FF 5/2,5	10IJN15-050 x 1
FF 5/3	10IJ25-050 x 1
FF 10/3	10IJ25-100 x 1
FF 15/3	10IG25-150 x 1
FF 20/3	10IG25-200 x 1
FF 30/3	10IG25-300 x 1
FF 30/5	10QG43-300 x 1
Micro Filters	
MF 3/1	6CJ10-030 x 1
MF 3/1,5	6CJ13-030 x 1
MF 4/1,5	6CJ13-044 x 1
MF 4/2,5	6IJ15-040 x 1
MF 5/2,5	6IJN15-050 x 1
MF 5/3	6IJ25-050 x 1
MF 10/3	6IJ25-100 x 1
MF 15/3	6IG25-150 x 1
MF 20/3	6IG25-200 x 1
MF 30/3	6IG25-300 x 1
MF 30/5	6QG43-300 x 1
Sub Micro Filters	
SMF 3/1	4CJ10-030 x 1
SMF 3/1,5	4CJ13-030 x 1
SMF 4/1,5	4CJ13-044 x 1
SMF 4/2,5	4IJ15-040 x 1
SMF 5/2,5	4IJN15-050 x 1
SMF 5/3	4IJ25-050 x 1
SMF 10/3	4IJ25-100 x 1
SMF 15/3	4IG25-150 x 1
SMF 20/3	4IG25-200 x 1
SMF 30/3	4IG25-300 x 1
SMF 30/5	4QG43-300 x 1
Active Carbon Filters	
AK 3/1	AJ10-030 x 1
AK 3/1,5	AJ13-030 x 1
AK 4/1,5	AJ13-044 x 1
AK 4/2,5	AJ15-040 x 1
AK 5/2,5	AJN15-050 x 1
AK 5/3	AJ25-050 x 1
AK 10/3	AJ25-100 x 1
AK 15/3	AG25-150 x 1
AK 20/3	AG25-200 x 1

Ultrafilter continued

Ultrafilter	Finite®
Part Number	**Part Number**
AK 30/3	AG25-300 x 1
AK 30/5	AG43-300 x 1
90 Series	
Prefilters	
PE 02/05	12GJN08-024 x 1
PE 03/05	12GJN08-030 x 1
PE 03/10	3PJN10-030 x 1
PE 04/10	3PJN10-040 x 1
PE 04/20	3PJN13-040 x 1
PE 05/20	3PJN13-050 x 1
PE 05/25	3PJN15-050 x 1
PE 07/25	3PJN15-070 x 1
PE 07/30	3PJN25-070 x 1
PE 10/30	3PJN25-100 x 1
PE 15/30	3PGN25-150 x 1
PE 20/30	3PGN25-200 x 1
PE 30/30	3PGN25-300 x 1
PE 30/50	3PGN43-300 x 1
Fine Filters	
FF 02/05	10HJN08-024 x 1
FF 03/05	10HJN08-030 x 1
FF 03/10	10CJN10-030 x 1
FF 04/10	10CJN10-040 x 1
FF 04/20	10CJN13-040 x 1
FF 05/20	10CJN13-050 x 1
FF 05/25	10IJN15-050 x 1
FF 07/25	10IJN15-070 x 1
FF 07/30	10IJN25-070 x 1
FF 10/30	10IJN25-100 x 1
FF 15/30	10IGN25-150 x 1
FF 20/30	10IGN25-200 x 1
FF 30/30	10IGN25-300 x 1
FF 30/50	10QGN43-300 x 1
Micro Filters	
MF 02/05	6HJN08-024 x 1
MF 03/05	6HJN08-030 x 1
MF 03/10	6CJN10-030 x 1
MF 04/10	6CJN10-040 x 1
MF 04/20	6CJN13-040 x 1
MF 05/20	6CJN13-050 x 1
MF 05/25	6IJN15-050 x 1
MF 07/25	6IJN15-070 x 1
MF 07/30	6IJN25-070 x 1
MF 10/30	6IJN25-100 x 1
MF 15/30	6IGN25-150 x 1
MF 20/30	6IGN25-200 x 1
MF 30/30	6IGN25-300 x 1
MF 30/50	6QGN43-300 x 1

Ultrafilter	Finite®
Part Number	**Part Number**
Sub Micro Filters	
SMF 02/05	4HJN08-024 x 1
SMF 03/05	4HJN08-030 x 1
SMF 03/10	4CJN10-030 x 1
SMF 04/10	4CJN10-040 x 1
SMF 04/20	4CJN13-040 x 1
SMF 05/20	4CJN13-050 x 1
SMF 05/25	4IJN15-050 x 1
Ultrafilter	Finite®
Part Number	**Part Number**
SMF 07/25	4IJN15-070 x 1
SMF 07/30	4IJN25-070 x 1
SMF 10/30	4IJN25-100 x 1
SMF 15/30	4IGN25-150 x 1
SMF 20/30	4IGN25-200 x 1
SMF 30/30	4IGN25-300 x 1
SMF 30/50	4QGN43-300 x 1
Active Carbon Filters	
AK 02/05	AJN08-024 x 1
AK 03/05	AJN08-030 x 1
AK 03/10	AJN10-030 x 1
AK 04/10	AJN10-040 x 1
AK 04/20	AJN13-040 x 1
AK 05/20	AJN13-050 x 1
AK 05/25	AJN15-050 x 1
AK 07/25	AJN15-070 x 1
AK 07/30	AJN25-070 x 1
AK 10/30	AJN25-100 x 1
AK 15/30	AGN25-150 x 1
AK 20/30	AGN25-200 x 1
AK 30/30	AGN25-300 x 1
AK 30/50	AGN43-300 x 1
Process Gas Elements	
P-PE 07/30	3PGN25-070 x 1
P-PE 10/30	3PGN25-100 x 1
P-MF 07/30	6IGN25-070 x 1
P-MF 10/30	6IGN25-100 x 1
P-SMF 07/30	4IGN25-070 x 1
P-SMF 10/30	4IGN25-100 x 1
P-FF 07/30	10IJN25-070 x 1
P-FF 10/30	10IJN25-100 x 1
P-AK 07/30	AGN25-070 x 1
P-AK 10/30	AGN25-100 x 1

Van Air

Van Air	Finite®
Part Number	**Part Number**
CE-8/60	6CC15-060 x 2
CE-8/100	6CC15-080 x 2
CE-15	6CC15-150 x 2
CE-22/500	6ICC25-220 x 1

Van Air continued

Van Air Part Number	Finite® Part Number
CXE-8/60	2CC15-060 x 2
CXE-8/100	2CC15-080 x 2
CXE-15	2CC15-150 x 2
CXE-22/350	2ICC25-220 x 1
KE-6/60	3PC15-060 x 2
KE-6/100	3PC15-080 x 2
KE-15	3PC15-150 x 2
KE-22	3PCC25-220 x 1
KE-15HT	10DC15-150 x 2
KE-22HT	10DC25-220 x 1
E100 Series	
E100-100-B	8CC25-059 X 1
E100-100-C	6CC25-059 X 1
E100-100-RA	3PC25-059 X 1
E100-100-RD	AC25-059 X 1
E101/102 Series	
E101/102-500-A	10ICC25-240 x 1
E101/102-500-B	8ICC25-240 x 1
E101/102-500-C	6ICC25-240 x 1
E101/102-500-RA	10DC25-240 x 1
E101/102-500-RB	8DC25-240 x 1
E101/102-500-RC	6DC25-240 x 1
E101/102-500-HT	10DC25-240 x 1
E101/102-625-A	10ICC25-300 x 1
E101/102-625-B	8ICC25-300 x 1
E101/102-625-C	6ICC25-300 x 1
E101/102-625-RA	10DC25-300 x 1
E101/102-625-RB	8DC25-300 x 1
E101/102-625-RC	6DC25-300 x 1
E101/102-625-HT	10DC25-300 x 1
E200 Series	
E200-265-C	6CC25-117 X 1
E200-265-B	8CC25-117 X 1
E200-265-RD	AC25-117 X 1
E200-265-RA	3PC25-117 X 1
E200-265-RB	8DC25-117 X 1
E200-265-RC	6DC25-117 X 1

Watts

Watts Part Number	Finite® Part Number	Kit Required
EKF507	10HM06-013 x 10	
EKF604	10HM10-022 x 8	KX-26
Standard Series Coalescing		
EKF501H	6HM06-013 x 10	
EKF601J	6CM10-025 x 8	KX-21
EKF601K	6CM10-050 x 4	KX-22
EKF601L	6CM15-060 x 4	KX-23
EK600D	6CM15-185 x 2	KX-25
EK600ND	*6CM15-185 x 2	KX-25
EK-600NB	6CM15-060 x 4	KX-23
Qube Series Coalescing		
EKF31	6H06-018 x 10	
EKF51	6H08-015 x 10	
EKF101	6H10-029 x 8	

* Replacement unit is somewhat smaller than original unit.

Kits are required for initital conversion only.

Wilkerson

Wilkerson Part Number	Finite® Part Number	Kit Required
5 Micron Particulate (Type A or Oil Removal)		
FRP-95-115	14JU10-020 x 10	
FRP-95-160	14JU07-013 x 10	
FRP-95-267	14JU07-013 x 10	
FRP-95-236	14JU10-020 x 10	
FRP-95-268	14JU10-020 x 10	
FRP-95-206	14JU10-020 x 10	
FRP-95-269	14JU10-020 x 10	
FRP-95-209	14JU15-043 x 10	
FRP-95-210	14JU15-043 x 10	
FRP-95-271	14JU15-043 x 10	
FRP-95-272	14JU15-043 x 10	
FRP-95-172	14JU26-075 x 4	
FRP-95-273	14JU26-075 x 4	
FRP-95-203	14JU26-075 x 4	
FRP-95-274	14JU26-075 x 4	
FRP-95-566	14JU26-075 x 4	
FRP-95-567	14JU26-075 x 4	
FRP-95-212	14JU26-120 x 4	
FRP-85-168	14JU26-120 x 4	
FRP-85-169	14JU26-240 x 4	
FRP-95-213	14JU26-240 x 4	
Coalescer Type B		
MSP-95-556	8CK25-119 x 2	
MSP-95-557	8CK25-238 x 1	
MSP-95-873	8CK25-080 x 2	
MSP-95-874	8CK35-074 x 2	
MSP-95-875	8CK35-106 x 1	
MSP-95-876	8CK35-172 x 1	
MSP-95-988	8HL10-021 x 4	
MSP-95-989	8CL10-024 x 4	
MSP-95-992	8CK15-052 x 4	
Coalescer Type C		
MTP-95-548	6HL10-021 x 4	
MRP-15-140	6CU10-021 x 8	KY- 1
MTP-95-549	6CL10-024 x 4	
MRP-15-143	6CK35-074 x 2	

Wilkerson continued

Wilkerson Part Number	Finite® Part Number	Kit Required
MRP-15-411	6CU10-052 x 4	KY-2
MRP-15-412	6CL25-063 x 2	
MRP-15-441	6CU10-052 x 4	KY-2
MRP-15-508	6CK25-119 x 2	
MRP-15-513	6CK25-238 x 1	
MTP-95-547	6HK04-013 x 10	
MTP-95-550	6CU10-052 x 4	KY-2
MTP-95-551	6CK15-052 x 4	
MTP-95-552	6CL25-063 x 2	
MTP-95-553	6CK35-074 x 2	
MTP-95-554	6CK25-119 x 2	
MTP-95-555	6CK25-238 x 1	
MTP-95-559	6CK25-080 x 2	
MTP-95-560	6CK35-074 x 2	
MTP-95-561	6CK35-106 x 1	
MTP-95-562	6CK35-172 x 1	
Adsorber Type D		
MRP-15-532	AU10-052 x 4	KY-2
MRP-15-533	AK25-119 x 2	
MRP-15-534	AK25-238 x 1	
MRP-15-535	AL25-063 x 2	
MRP-15-536	AU10-021 x 1	KY-1
MRP-15-537	AU10-052 x 4	KY-2
MRP-15-538	AK35-074 x 2	
MRP-95-534	AK25-238 x 1	
MXP-95-538	AK35-074 x 2	
MXP-15-533	AK25-119 x 2	
MXP-95-532	AK15-052 x 4	
MXP-95-535	AL25-063 x 2	
MXP-95-536	AU10-021 x 8	KY-1
MXP-95-540	AL10-024 x 4	
MXP-95-558	AK25-080 x 2	
MXP-95-563	AK35-074 x 2	
MXP-95-564	AK35-106 x 1	
MXP-95-565	AK35-172 x 1	
MXP-95-987	AL10-021 x 4	

Zander

Zander Part Number	Finite® Part Number
1030 (A, V, X, Y or Z)	*Z07-020 x 1
1050 (A, V, X, Y or Z)	*Z12-023 x 1
1070 (A, V, X, Y or Z)	*Z12-029 x 1
1140 (A, V, X, Y or Z)	*Z12-056 x 1
2010 (A, V, X, Y or Z)	*Z20-046 x 1
2020 (A, V, X, Y or Z)	*Z20-086 x 1
2030 (A, V, X, Y or Z)	*Z20-126 x 1
2050 (A, V, X, Y or Z)	*Z20-200 x 1
3050 (A, V, X, Y or Z)	*Z27-200 x 1
3075 (A, V, X, Y or Z)	*Z27-298 x 1
5060 (A, V, X, Y or Z)	*Z46-239 x 1
5075 (A, V, X, Y or Z)	*Z50-298 x 1
Zander Media	*Finite® Element
Designation	Grade
A	A = Adsorber
V	3P = Particulate
X	6C = Grade 6 Coalescer
Y	8C = Grade 8 Coalescer
Z	10C = Grade 10 Coalescer

Example: Zander 2030X converts to Finite 6CZ20-126 x 1

Zurn

Zurn/General Air Dryer Part Number	Finite® Part Number	Kit Required
Particulate Filters		
74635-22	12R10-025 x 8	
74635-24	12RM10-055 x 4	
74635-26	12R15-060 x 4	
74635-75	12R20-130 x 2	
74635-32	12R20-187 x 1	
74635-40	12RD20-187 x 1	
74635-90	12RXC20-187 x 1	KV-25
74635-139	3PU51-380 x 1	
74635-140	3PU80-380 x 1	
Coalescing Filters		
74635-21	6N10-025 x 8	
74635-23	6CM10-055 x 4	
74635-25	6N15-060 x 4	
74635-74	6N20-130 x 2	
74635-31	6N20-187 x 1	
74635-39	6ND20-187 x 1	
74635-132	6QU37-381 x 1	
74635-133	6QU51-380 x 1	
74635-134	6QU80-380 x 1	
Odorguard		
74635-77	AU10-025 x 8	
74635-78	AU10-055 x 4	
74635-80	AU15-060 x 4	
74635-76	AU20-130 x 2	
74635-79	AU20-187 x 1	
74635-50	AD20-187 x 1	
74635-145	AU51-380 x 1	
74635-146	AU80-380 x 1	

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
1350	8DU51-100 x 1	Pure Air	KV-22
1351	8DU51-128 x 1	Pure Air	KV-22
1352	8DU78-165 x 1	Pure Air	KV-24
1353	8CU145-200 x 1	Pure Air	
1357	6CJ25-120 x 2	Pure Air	
1358	6CJ25-120 x 2	Pure Air	
1359	6CJ25-240 x 1	Pure Air	
1360	6CJ25-240 x 1	Pure Air	
1361	6CJ25-240 x 1	Pure Air	
1362	6CJ25-240 x 1	Pure Air	
1367	6CJ25-240 x 1	Pure Air	
1368	6CJ25-240 x 1	Pure Air	
1370	AJ25-240 x 1	Pure Air	
1370	AJ25-240 x 1	Pure Air	
1372	AJ25-120 x 2	Pure Air	
1373	AJ25-120 x 2	Pure Air	
1375	AJ25-240 x 1	Pure Air	
1377	AJ25-240 x 1	Pure Air	
1378	AJ25-240 x 1	Pure Air	
1379	AJ25-240 x 1	Pure Air	
1406	6CN25-080 x 2	Pure Air	
1407	6CJ25-120 x 2	Pure Air	
1408	6CJ25-240 x 1	Pure Air	
1408	6CJ25-240 x 1	Pure Air	
1411	AJ25-080 x 2	Pure Air	
1412	AJ25-120 x 2	Pure Air	
1413	AJ25-240 x 1	Pure Air	
1418	AJ25-240 x 1	Pure Air	
050-03*	*G04-010 x 10	Balston	
050-03*Q	*T04-010 x 10	Balston	
050-03-BX	6H04-010 x 10	Balston	
050-03-CX	8H04-010 x 10	Balston	
050-03-DX	10H04-010 x 10	Balston	
050-05-*	*G04-013 x 10	Balston	
050-05-*Q	*T04-013 x 10	Balston	
050-05-BX	6H04-013 x 10	Balston	
050-05-CX	8H04-013 x 10	Balston	
050-05-DX	10H04-013 x 10	Balston	
050-11-*	*G04-023 x 10	Balston	
050-11-*Q	*T04-023 x 10	Balston	
050-11-BH	6T04-023 x 10	Balston	
050-11-BX	6H04-023 x 10	Balston	
050-11-CX	8H04-023 x 10	Balston	
050-11-DH	10T04-023 x 10	Balston	
050-11-DX	10H04-023 x 10	Balston	
0713-11*	6CH25-260 x 1	Hankison	
0713-12*	6CU25-187 x 1	Hankison	KX-3
0713-2	6CM10-025 x 8	Hankison	KX-21
0713-3	6CM10-050 x 4	Hankison	KX-22
0713-4	6CM15-060 x 4	Hankison	KX-23
0713-5	6CM15-095 x 2	Hankison	KX-24
0713-6	6CM15-185 x 2	Hankison	KX-25
0713-7	6CU25-187 x 1	Hankison	KX-2
0713-8	6CU25-187 x 1	Hankison	KX-2

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
0713-9	6CH25-260 x 1	Hankison	
0715-11*	AH25-260 x 1	Hankison	
0715-2	AM10-025 x 8	Hankison	KX-21
0715-3	AM10-050 x 4	Hankison	KX-22
0715-4	AM15-060 x 4	Hankison	KX-23
0715-5	AM15-095 x 2	Hankison	KX-24
0715-6	AM15-185 x 2	Hankison	KX-25
0715-7	AU25-187 x 1	Hankison	KX-2
0715-8	AU25-187 x 1	Hankison	KX-2
0715-9	AH25-260 x 1	Hankison	
0731-3	10CM10-025 x 8	Hankison	KX-21
0731-4	10CM10-050 x 4	Hankison	KX-22
0731-5	10CM15-060 x 4	Hankison	KX-23
0731-6	10CM15-095 x 2	Hankison	KX-24
0731-7	10CM15-185 x 2	Hankison	KX-25
0731-8	10CU25-187 x 1	Hankison	KX-2
0731-9*	10CH25-260 x 1	Hankison	
0740-4	10DH25-260 x 1	Hankison	
0812-1	6CE63-118 x 1	Henderson	
0812-1	3PE63-118 x 1	Henderson	
10" (80 Series)	6CP15-100 x 2	Cuno (AMF Cuno)	
10" (80 Series)	AP15-100 x 2	Cuno (AMF Cuno)	
10" Element	6CP15-100 x 2	Filterite	
10" Element	3PP15-100 x 2	Filterite	
10" Element	AP15-100 x 2	Filterite	
100-09-BX	6H10-020 x 8	Balston	
100-09-CX	8H10-020 x 8	Balston	
100-09-DX	10H10-020 x 8	Balston	
100-12-*	*G10-025 x 10	Balston	
100-12-*Q	*T10-025 x 10	Balston	
100-12-BH	6T10-025 x 10	Balston	
100-12-BX	6H10-025 x 8	Balston	
100-12-CX	8H10-025 x 8	Balston	
100-12-DH	10T10-025 x 10	Balston	
100-12-DX	10H10-025 x 8	Balston	
100-18-BX	6H10-050 x 4	Balston	
100-18-CX	8H10-050 x 4	Balston	
100-18-DX	10H10-050 x 4	Balston	
100-25-*	*G10-070 x 10	Balston	
100-25-*Q	*T10-070 x 10	Balston	
100-25-BH	6T10-070 x 10	Balston	
100-25-BX	6H10-070 x 4	Balston	
100-25-CX	8H10-070 x 4	Balston	
100-25-DH	10T10-070 x 10	Balston	
100-25-DX	10H10-070 x 4	Balston	
1030 (A, V, X, Y or Z)	*Z07-020 x 1	Zander	
1050 (A, V, X, Y or Z)	*Z12-023 x 1	Zander	
1070 (A, V, X, Y or Z)	*Z12-029 x 1	Zander	
1140 (A, V, X, Y or Z)	*Z12-056 x 1	Zander	
12-16-70C	10H04-006 x 10	Headline	
12-16-50C	6H04-006 x 10	Headline	
12-16-70K	10S04-006 x 10	Headline	
12-16-50C	6S04-006 x 10	Headline	
12-32-50C	6H04-013 x 10	Headline	

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
12-32-50K	6T04-013 x 10	Headline	
12-32-70C	10H04-013 x 10	Headline	
12-32-70K	10T04-013 x 10	Headline	
12-57-50C	6H04-023 x 10	Headline	
12-57-50K	6T04-023 x 10	Headline	
12-57-70C	10H04-023 x 10	Headline	
12-57-70K	10T04-023 x 10	Headline	
129360-802	6G10-025 x 10	Steris	
150-19-*	*G15-060 x 10	Balston	
150-19-*Q	*T15-060 x 10	Balston	
150-19-BX	6H15-060 x 4	Balston	
150-19-CX	8H15-060 x 4	Balston	
150-19-DX	10H15-060 x 4	Balston	
16D100	6CU19-130 x 2	Henderson	KX-14
16D150	6CU19-187 x 1	Henderson	KX-16
16D33	6CU19-050 x 2	Henderson	KX-12
16D50	6CU19-070 x 2	Henderson	KX-13
20" Element	6CP15-198 x 2	Filterite	
20" Element	3PP15-198 x 2	Filterite	
20" Element	AP15-198 x 2	Filterite	
200-16-BX	6H20-035 x 4	Balston	
200-16-CX	8H20-035 x 4	Balston	
200-16-DX	10H20-035 x 4	Balston	
200-35-*	*G20-090 x 10	Balston	
200-35-BH	6T20-090 x 10	Balston	
200-35-*Q	*T20-090 x 10	Balston	
200-35-BX	6H20-090 x 2	Balston	
200-35-CX	8H20-090 x 2	Balston	
200-35-DX	10H20-090 x 2	Balston	
200-80-*	*G20-187 x 10	Balston	
200-80-*Q	*T20-187 x 10	Balston	
200-80-BX	6H20-187 x 1	Balston	
200-80-CX	8H20-187 x 1	Balston	
200-80-DX	10H20-187 x 1	Balston	
2010 (A, V, X, Y or Z)	*Z20-046 x 1	Zander	
2020 (A, V, X, Y or Z)	*Z20-086 x 1	Zander	
2030 (A, V, X, Y or Z)	*Z20-126 x 1	Zander	
2050 (A, V, X, Y or Z)	*Z20-200 x 1	Zander	
245-3	3PE15-050 x 4	Henderson	
250024-423	10CF08-026 x 1	Sullair	
250024-424	10IF10-032 x 1	Sullair	
250024-425	10IF10-046 x 1	Sullair	
250024-426	10IF20-063 x 1	Sullair	
250024-427	10IF20-102 x 1	Sullair	
250024-428	10IF25-134 x 1	Sullair	
250024-429	10IF25-254 x 1	Sullair	
250024-430	10CF35-251 x 1	Sullair	
250024-431	6CF08-026 x 1	Sullair	
250024-432	6IF10-032 x 1	Sullair	
250024-433	6IF10-046 x 1	Sullair	
250024-434	6IF20-063 x 1	Sullair	
250024-435	6IF20-102 x 1	Sullair	
250024-436	6IF25-134 x 1	Sullair	
250024-437	6IF25-254 x 1	Sullair	
250024-438	6CF35-251 x 1	Sullair	
250030-644	10CF35-165 x 1	Sullair	
25-127-50C	6H10-050 x 4	Headline	
25-127-70C	10H10-050 x 4	Headline	
25-178-50C	6H10-070 x 4	Headline	
25-178-50K	6T10-070 x 10	Headline	
25-178-70C	10H10-070 x 4	Headline	
25-178-70K	10T10-070 x 10	Headline	
25-64-50C	6H10-025 x 8	Headline	
25-64-50K	6T10-025 x 10	Headline	
25-64-70C	10H10-025 x 8	Headline	
25-64-70K	10T10-025 x 10	Headline	
3050 (A, V, X, Y or Z)	*Z27-200 x 1	Zander	
3075 (A, V, X, Y or Z)	*Z27-298 x 1	Zander	
3-3/4" (30 Series)	6CP15-038 x 4	Cuno (AMF Cuno)	
38-152-50C	6H15-060 x 4	Headline	
38-152-50K	6T15-060 x 10	Headline	
38-152-70C	10H15-060 x 4	Headline	
38-152-70K	10T15-060 x 10	Headline	
40011306(NL-4)	6C85-250 x 1	Ingersoll Rand	
40011355(NL-3)	6C85-250 x 1	Ingersoll Rand	
40011645(NL-5)	6C85-360 x 1	Ingersoll Rand	
40011777(NL-6)	6C85-360 x 1	Ingersoll Rand	
5060 (A, V, X, Y or Z)	*Z46-239 x 1	Zander	
5075 (A, V, X, Y or Z)	*Z50-298 x 1	Zander	
51-230-50C	6H20-090 x 2	Headline	
51-230-50K	6T20-090 x 10	Headline	
51-230-70C	10H20-090 x 2	Headline	
51-230-70K	10T20-090 x 10	Headline	
51-476-50C	6H20-187 x 1	Headline	
51-476-50K	6T20-187 x 10	Headline	
51-476-70C	10H20-187 x 1	Headline	
51-476-70K	10T20-187 x 10	Headline	
51-89-50C	6H20-035 x 4	Headline	
51-89-70C	10H20-035 x 4	Headline	
532-221	8CF20-051 x 2	Busch	
532-302 (532.509.501)	8CF20-099 x 2	Busch	
532-303 (532.082.01)	8CF20-147 x 1	Busch	
532-304 (532.507.01)	8CF20-197 x 1	Busch	
665-88	6CN25-080 x 2	Norgren	
74635-132	6QU37-381 x 1	Zurn	
74635-133	6QU51-380 x 1	Zurn	
74635-134	6QU80-380 x 1	Zurn	
74635-139	3PU51-380 x 1	Zurn	
74635-140	3PU80-380 x 1	Zurn	
74635-145	AU51-380 x 1	Zurn	
74635-146	AU80-380 x 1	Zurn	
74635-21	6N10-025 x 8	Zurn	
74635-22	12R10-025 x 8	Zurn	
74635-23	6CM10-055 x 4	Zurn	
74635-24	12RM10-055 x 4	Zurn	
74635-25	6N15-060 x 4	Zurn	
74635-26	12R15-060 x 4	Zurn	
74635-31	6N20-187 x 1	Zurn	

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
74635-32	12R20-187 x 1	Zurn	
74635-39	6ND20-187 x 1	Zurn	
74635-40	12RD20-187 x 1	Zurn	
74635-50	AD20-187 x 1	Zurn	
74635-74	6N20-130 x 2	Zurn	
74635-75	12R20-130 x 2	Zurn	
74635-76	AU20-130 x 2	Zurn	
74635-77	AU10-025 x 8	Zurn	
74635-78	AU10-055 x 4	Zurn	
74635-79	AU20-187 x 1	Zurn	
74635-80	AU15-060 x 4	Zurn	
74635-90	12RXC20-187 x 1	Zurn	KV-25
86-972	6HU20-070 x 2	Binks	
86-982	6HU10-050 x 4	Binks	
8D20	6CN10-028 x 8	Henderson	KX-10
8D28	6CN10-038 x 4	Henderson	KX-11
9-3/4" (78 Series)	6CP15-098 x 2	Cuno (AMF Cuno)	
9-3/4" (78 Series)	AP15-098 x 2	Cuno (AMF Cuno)	
9900-05-BK	SDN-O x 10	Balston	
9933-05-BQ	IDN-6G x 10	Balston	
9933-05-DQ	IDN-10G x 10	Balston	
A002/05	6HJN08-024 x 1	Domnick Hunter	
A003/05	6HJN08-030 x 1	Domnick Hunter	
A003/10	6CJN10-030 x 1	Domnick Hunter	
A004/10	6CJN10-040 x 1	Domnick Hunter	
A004/20	6CJN13-040 x 1	Domnick Hunter	
A005/20	6CJN13-050 x 1	Domnick Hunter	
A005/25	6IJN15-050 x 1	Domnick Hunter	
A007/25	6IJN15-070 x 1	Domnick Hunter	
A007/30	6IJN25-070 x 1	Domnick Hunter	
A010/3	6IJ25-100 x 1	Domnick Hunter	
A010/30	6IJN25-100 x 1	Domnick Hunter	
A015/3	6IG25-150 x 1	Domnick Hunter	
A015/30	6IGN25-150 x 1	Domnick Hunter	
A020/3	6IG25-200 x 1	Domnick Hunter	
A020/30	6IGN25-200 x 1	Domnick Hunter	
A03/1	6CJ10-030 x 1	Domnick Hunter	
A03/1.5	6CJ13-030 x 1	Domnick Hunter	
A030/3	6IG25-300 x 1	Domnick Hunter	
A030/30	6IGN25-300 x 1	Domnick Hunter	
A030/5	6QG43-300 x 1	Domnick Hunter	
A030/50	6QGN43-300 x 1	Domnick Hunter	
A04/1.5	6CJ13-044 x 1	Domnick Hunter	
A04/2.5	6IJ15-040 x 1	Domnick Hunter	
A05/2.5	6IJN15-050 x 1	Domnick Hunter	
A05/3	6IJ25-050 x 1	Domnick Hunter	
A4000-135	IDTF-O x 10*	Johnson Controls	
A4000-604	4CL10-024 x 8	Johnson Controls	
A4000-605	4CL10-053 x 4	Johnson Controls	
A4000-606	6CL25-063 x 2	Johnson Controls	
A4000-627	4CL10-024 x 8	Johnson Controls	
A4000-628	4CL10-053 x 4	Johnson Controls	
A4000-629	6CL25-063 x 2	Johnson Controls	
AA02/05	4HJN08-024 x 1	Domnick Hunter	
AA03/05	4HJN08-030 x 1	Domnick Hunter	
AA03/10	4CJN10-030 x 1	Domnick Hunter	
AA04/10	4CJN10-040 x 1	Domnick Hunter	
AA04/20	4CJN13-040 x 1	Domnick Hunter	
AA05/20	4CJN13-050 x 1	Domnick Hunter	
AA05/25	4IJN15-050 x 1	Domnick Hunter	
AA07/25	4IJN15-070 x 1	Domnick Hunter	
AA07/30	4IJN25-070 x 1	Domnick Hunter	
AA10/3	6IJ25-100 x 1	Domnick Hunter	
AA10/30	4IJN25-100 x 1	Domnick Hunter	
AA15/3	6IG25-150 x 1	Domnick Hunter	
AA15/30	4IGN25-150 x 1	Domnick Hunter	
AA20/3	6IG25-200 x 1	Domnick Hunter	
AA20/30	4IGN25-200 x 1	Domnick Hunter	
AA3/1	6CJ10-030 x 1	Domnick Hunter	
AA3/1.5	6CJ13-030 x 1	Domnick Hunter	
AA30/3	6IG25-300 x 1	Domnick Hunter	
AA30/30	4IGN25-300 x 1	Domnick Hunter	
AA30/5	6QG43-300 x 1	Domnick Hunter	
AA30/50	4QGN43-300 x 1	Domnick Hunter	
AA4/1.5	6CJ13-044 x 1	Domnick Hunter	
AA4/2.5	6IJ15-040 x 1	Domnick Hunter	
AA5/2.5	6IJN15-050 x 1	Domnick Hunter	
AA5/3	6IJ25-050 x 1	Domnick Hunter	
AC 02/05	AJN08-024 x 1	Domnick Hunter	
AC 03/05	AJN08-030 x 1	Domnick Hunter	
AC 03/10	AJN10-030 x 1	Domnick Hunter	
AC 04/10	AJN10-040 x 1	Domnick Hunter	
AC 04/20	AJN13-040 x 1	Domnick Hunter	
AC 05/20	AJN13-050 x 1	Domnick Hunter	
AC 05/25	AJN15-050 x 1	Domnick Hunter	
AC 07/25	AJN15-070 x 1	Domnick Hunter	
AC 07/30	AJN25-070 x 1	Domnick Hunter	
AC 10/30	AJN25-100 x 1	Domnick Hunter	
AC 15/30	AGN25-150 x 1	Domnick Hunter	
AC 20/30	AGN25-200 x 1	Domnick Hunter	
AC 30/30	AGN25-300 x 1	Domnick Hunter	
AC 30/50	AGN43-300 x 1	Domnick Hunter	
AC10/3	AJ25-100 x 1	Domnick Hunter	
AC15/3	AG25-150 x 1	Domnick Hunter	
AC20/3	AG25-200 x 1	Domnick Hunter	
AC3/1	AJ10-030 x 1	Domnick Hunter	
AC3/1.5	AJ13-030 x 1	Domnick Hunter	
AC30/3	AG25-300 x 1	Domnick Hunter	
AC30/5	AG43-300 x 1	Domnick Hunter	
AC4/1.5	AJ13-044 x 1	Domnick Hunter	
AC4/2.5	AJ15-040 x 1	Domnick Hunter	
AC5/2.5	AJN15-050 x 1	Domnick Hunter	
AC5/3	AJ25-050 x 1	Domnick Hunter	
AK 02/05	AJN08-024 x 1	Ultrafilter	
AK 03/05	AJN08-030 x 1	Ultrafilter	
AK 03/10	AJN10-030 x 1	Ultrafilter	
AK 04/10	AJN10-040 x 1	Ultrafilter	
AK 04/20	AJN13-040 x 1	Ultrafilter	

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
AK 05/20	AJN13-050 x 1	Ultrafilter	
AK 05/25	AJN15-050 x 1	Ultrafilter	
AK 07/25	AJN15-070 x 1	Ultrafilter	
AK 07/30	AJN25-070 x 1	Ultrafilter	
AK 10/3	AJ25-100 x 1	Ultrafilter	
AK 10/30	AJN25-100 x 1	Ultrafilter	
AK 15/3	AG25-150 x 1	Ultrafilter	
AK 15/30	AGN25-150 x 1	Ultrafilter	
AK 20/3	AG25-200 x 1	Ultrafilter	
AK 20/30	AGN25-200 x 1	Ultrafilter	
AK 3/1	AJ10-030 x 1	Ultrafilter	
AK 3/1,5	AJ13-030 x 1	Ultrafilter	
AK 30/3	AG25-300 x 1	Ultrafilter	
AK 30/30	AGN25-300 x 1	Ultrafilter	
AK 30/5	AG43-300 x 1	Ultrafilter	
AK 30/50	AGN43-300 x 1	Ultrafilter	
AK 4/1,5	AJ13-044 x 1	Ultrafilter	
AK 4/2,5	AJ15-040 x 1	Ultrafilter	
AK 5/2,5	AJN15-050 x 1	Ultrafilter	
AK 5/3	AJ25-050 x 1	Ultrafilter	
CC05LGH13B	6IP15-052 x 4	Pall/PPC	
CC1LG7A	7CPP20-098 x 1	Pall/PPC	
CC3LG02H13	7CRP20-290 x 1	Pall/PPC	
CC3LG7A	6CPC20-290 x 1	Pall/PPC	
CE-15	6CC15-150 x 2	Van Air	
CE-22/500	6ICC25-220 x 1	Van Air	
CE-8/100	6CC15-080 x 2	Van Air	
CE-8/60	6CC15-060 x 2	Van Air	
CI-100-12	AU10-025 x 8	Balston	
CI-100-25	AU10-070 x 4	Balston	
CI-150-19	AB15-060 x 4	Balston	
CXE-15	2CC15-150 x 2	Van Air	
CXE-22/350	2ICC25-220 x 1	Van Air	
CXE-8/100	2CC15-080 x 2	Van Air	
CXE-8/60	2CC15-060 x 2	Van Air	
DH006AA	6CF08-026 x 1	Flair	
DH006AC	AF08-026 x 1	Flair	
DH006AO	10CF08-026 x 1	Flair	
DH013AA	6IF10-032 x 1	Flair	
DH013AC	AF10-032 x 1	Flair	
DH013AO	10IF10-032 x 1	Flair	
DH025AA	6IF10-046 x 1	Flair	
DH025AC	AF10-046 x 1	Flair	
DH025AO	10IF10-046 x 1	Flair	
DH040AA	6IF20-063 x 1	Flair	
DH040AC	AF20-063 x 1	Flair	
DH040AO	10IF20-063 x 1	Flair	
DH085AA	6IF20-102 x 1	Flair	
DH085AC	AF20-102 x 1	Flair	
DH085AO	10IF20-102 x 1	Flair	
DH195AA	6IF25-134 x 1	Flair	
DH195AC	AF25-134 x 1	Flair	
DH195AO	10IF25-134 x 1	Flair	
DH295AA	6IF25-254 x 1	Flair	
DH295AC	AF25-254 x 1	Flair	
DH295AO	10IF25-254 x 1	Flair	
DH400AA	6CF35-165 x 1	Flair	
DH400AC	AF35-165 x 1	Flair	
DH400AO	10CF35-165 x 1	Flair	
DH500AA	6CF43-252 x 1	Flair	
DH500AC	AF43-252 x 1	Flair	
DH500AO	10CF43-252 x 1	Flair	
E006AA	6CF08-026 x 1	Domnick Hunter	
E006AC	AF08-026 x 1	Domnick Hunter	
E006AO	10CF08-026 x 1	Domnick Hunter	
E013AA	6IF10-032 x 1	Domnick Hunter	
E013AC	AF10-032 x 1	Domnick Hunter	
E013AO	10IF10-032 x 1	Domnick Hunter	
E025AA	6IF10-046 x 1	Domnick Hunter	
E025AC	AF10-046 x 1	Domnick Hunter	
E025AO	10IF10-046 x 1	Domnick Hunter	
E040AA	6IF20-063 x 1	Domnick Hunter	
E040AC	AF20-063 x 1	Domnick Hunter	
E040AO	10IF20-063 x 1	Domnick Hunter	
E085AA	6IF20-102 x 1	Domnick Hunter	
E085AC	AF20-102 x 1	Domnick Hunter	
E085AO	10IF20-102 x 1	Domnick Hunter	
E101/102-500-A	10ICC25-240 x 1	Van Air	
E101/102-500-B	8ICC25-240 x 1	Van Air	
E101/102-500-C	6ICC25-240 x 1	Van Air	
E101/102-500-HT	10DC25-240 x 1	Van Air	
E101/102-500-RA	10DC25-240 x 1	Van Air	
E101/102-500-RB	8DC25-240 x 1	Van Air	
E101/102-500-RC	6DC25-240 x 1	Van Air	
E101/102-625-A	10ICC25-300 x 1	Van Air	
E101/102-625-B	8ICC25-300 x 1	Van Air	
E101/102-625-C	6ICC25-300 x 1	Van Air	
E101/102-625-HT	10DC25-300 x 1	Van Air	
E101/102-625-RA	10DC25-300 x 1	Van Air	
E101/102-625-RB	8DC25-300 x 1	Van Air	
E101/102-625-RC	6DC25-300 x 1	Van Air	
E1-12	AH10-020 X 1	Hankison	
E1-16	AH10-036 X 1	Hankison	
E1-20	AH10-060 X 1	Hankison	
E1-24	AHC16-066 X 1	Hankison	
E1-28	AHC16-108 X 1	Hankison	
E1-32	AHC19-131 X 1	Hankison	
E1-36	AHC19-176 X 1	Hankison	
E1-40	AHC25-204 X 1	Hankison	
E1-44	AHC25-265 X 1	Hankison	
E100-100-B	8CC25-059 X 1	Van Air	
E100-100-C	6CC25-059 X 1	Van Air	
E100-100-RA	3PC25-059 X 1	Van Air	
E100-100-RD	AC25-059 X 1	Van Air	
E195AA	6IF25-134 x 1	Domnick Hunter	
E195AC	AF25-134 x 1	Domnick Hunter	
E195AO	10IF25-134 x 1	Domnick Hunter	
E200-265-B	8CC25-117 X 1	Van Air	

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
E200-265-C	6CC25-117 X 1	Van Air	
E200-265-RA	3PC25-117 X 1	Van Air	
E200-265-RB	8DC25-117 X 1	Van Air	
E200-265-RC	6DC25-117 X 1	Van Air	
E200-265-RD	AC25-117 X 1	Van Air	
E295AA	6IF25-254 x 1	Domnick Hunter	
E295AC	AF25-254 x 1	Domnick Hunter	
E295AO	10IF25-254 x 1	Domnick Hunter	
E3-12	2CH10-020 X 1	Hankison	
E3-16	2CH10-036 X 1	Hankison	
E3-20	2CH10-060 X 1	Hankison	
E3-24	2CH16-066 X 1	Hankison	
E3-28	2CH16-108 X 1	Hankison	
E3-32	2CH19-131 X 1	Hankison	
E3-36	2CH19-176 X 1	Hankison	
E3-40	2CH25-204 X 1	Hankison	
E3-44	2CH25-265 X 1	Hankison	
E400AA	6CF35-165 x 1	Domnick Hunter	
E400AC	AF35-165 x 1	Domnick Hunter	
E400AO	10CF35-165 x 1	Domnick Hunter	
E500AA	6CF43-252 x 1	Domnick Hunter	
E500AC	AF43-252 x 1	Domnick Hunter	
E500AO	10CF43-252 x 1	Domnick Hunter	
E5-12	6CH10-020 X 1	Hankison	
E5-16	6CH10-036 X 1	Hankison	
E5-20	6CH10-060 X 1	Hankison	
E5-24	6CH16-066 X 1	Hankison	
E5-28	6CH16-108 X 1	Hankison	
E5-32	6CH19-131 X 1	Hankison	
E5-36	6CH19-176 X 1	Hankison	
E5-40	6CH25-204 X 1	Hankison	
E5-44	6CH25-265 X 1	Hankison	
E620AA	6CF35-251 x 1	Domnick Hunter	
E620AC	AF35-251 x 1	Domnick Hunter	
E620AO	10CF35-251 x 1	Domnick Hunter	
E7-12	10CH10-020 X 1	Hankison	
E7-16	10CH10-036 X 1	Hankison	
E7-20	10CH10-060 X 1	Hankison	
E7-24	10CH16-066 X 1	Hankison	
E7-28	10CH16-108 X 1	Hankison	
E7-32	10CH19-131 X 1	Hankison	
E7-36	10CH19-176 X 1	Hankison	
E7-40	10CH25-204 X 1	Hankison	
E7-44	10CH25-265 X 1	Hankison	
E9-12	100WS10-020 X 1	Hankison	
E9-16	100WS10-036 X 1	Hankison	
E9-20	100WS10-060 X 1	Hankison	
E9-24	100WS16-066 X 1	Hankison	
E9-28	100WS16-108 X 1	Hankison	
E9-32	100WS19-131 X 1	Hankison	
E9-36	100WS19-176 X 1	Hankison	
E9-40	100WS25-204 X 1	Hankison	
E9-44	100WS25-265 X 1	Hankison	
EC100P	6CM15-060 x 4	Ultra Air	
EK600D	6CM15-185 x 2	Watts	KX-25
EK-600NB	6CM15-060 x 4	Watts	KX-23
EK600ND	*6CM15-185 x 2	Watts	KX-25
EKF101	6H10-029 x 8	Watts	
EKF10D	6IR04-019 x 4	Numatics	
EKF20D	6IR08-019 x 4	Numatics	
EKF30D	6IR10-034 x 4	Numatics	
EKF31	6H06-018 x 10	Watts	
EKF4 x 2	10RU25-281 x 1	Arrow	
EKF4 x 3	10RU25-281 x 1	Arrow	
EKF4 x 4	10RU25-281 x 1	Arrow	
EKF4 x 5	10RU25-281 x 1	Arrow	
EKF4 x 6	10RU25-281 x 1	Arrow	
EKF4 x 8	10RU25-281 x 1	Arrow	
EKF401	10RU07-018 x 8	Arrow	
EKF402	10RU10-021 x 8	Arrow	
EKF405	10RA20-040 x 4	Arrow	
EKF407	10RA20-071 x 2	Arrow	
EKF408	10RA20-080 x 2	Arrow	
EKF410	10RU25-101 x 2	Arrow	
EKF418	10RU25-181 x 1	Arrow	
EKF428	10RU25-281 x 1	Arrow	
EKF4N2	10RU25-281 x 1	Arrow	
EKF5 x 2	6IU25-281 x 1	Arrow	
EKF5 x 2A	2IU25-281 x 1	Arrow	
EKF5 x 3	6IU25-281 x 1	Arrow	
EKF5 x 3A	2IU25-281 x 1	Arrow	
EKF5 x 4	6IU25-281 x 1	Arrow	
EKF5 x 4A	2IU25-281 x 1	Arrow	
EKF5 x 5	6IU25-281 x 1	Arrow	
EKF5 x 5A	2IU25-281 x 1	Arrow	
EKF5 x 6	6IU25-281 x 1	Arrow	
EKF5 x 6A	2IU25-281 x 1	Arrow	
EKF5 x 8	6IU25-281 x 1	Arrow	
EKF5 x 8A	2IU25-281 x 1	Arrow	
EKF501	6CU07-018 x 8	Arrow	
EKF501A	2CU07-018 x 8	Arrow	
EKF501H	6HM06-013 x 10	Watts	
EKF502	6CU10-022 x 8	Arrow	
EKF502A	2CU10-022 x 8	Arrow	
EKF505	6IA20-040 x 4	Arrow	
EKF505A	2IA20-040 x 4	Arrow	
EKF507	6IA20-071 x 2	Arrow	
EKF507	10HM06-013 x 10	Watts	
EKF507A	2IA20-071 x 2	Arrow	
EKF508	6IA20-080 x 2	Arrow	
EKF508A	2IA20-080 x 2	Arrow	
EKF51	6H08-015 x 10	Watts	
EKF510	6IU25-101 x 2	Arrow	
EKF510A	2IU25-101 x 2	Arrow	
EKF518	6IU25-181 x 1	Arrow	
EKF518A	2IU25-181 x 1	Arrow	
EKF528	6IU25-281 x 1	Arrow	
EKF528A	2IU25-281 x 1	Arrow	

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
EKF529	6CA29-280 x 1	Arrow	
EKF529A	2CA29-280 x 1	Arrow	
EKF5N2	6IU25-281 x 1	Arrow	
EKF5N2A	2IU25-281 x 1	Arrow	
EKF6N2	AU25-281 x 1	Arrow	
EKF6 x 2	AU25-281 x 1	Arrow	
EKF6 x 3	AU25-281 x 1	Arrow	
EKF6 x 4	AU25-281 x 1	Arrow	
EKF6 x 5	AU25-281 x 1	Arrow	
EKF6 x 6	AU25-281 x 1	Arrow	
EKF6 x 8	AU25-281 x 1	Arrow	
EKF601	AU07-018 x 8	Arrow	
EKF601J	6CM10-025 x 8	Watts	KX-21
EKF601K	6CM10-050 x 4	Watts	KX-22
EKF601L	6CM15-060 x 4	Watts	KX-23
EKF602	AU10-022 x 8	Arrow	
EKF604	10HM10-022 x 8	Watts	KX-26
EKF605	AA20-040 x 4	Arrow	
EKF607	AA20-071 x 2	Arrow	
EKF608	AA20-080 x 2	Arrow	
EKF610	AU25-101 x 2	Arrow	
EKF618	AU25-181 x 1	Arrow	
EKF628	AU25-281 x 1	Arrow	
EKF629	AA29-280 x 1	Arrow	
EKF6N1	AU25-281 x 1	Arrow	
EP1001AO	6QP19-098 x 2	Domnick Hunter	
EP1001PL	3PP19-098 x 2	Domnick Hunter	
EZ1030AA	6CZ07-020 x 1	Domnick Hunter	
EZ1030AC	AZ07-020 x 1	Domnick Hunter	
EZ1030AO	10CZ07-020 x 1	Domnick Hunter	
EZ1050AA	6CZ12-023 x 1	Domnick Hunter	
EZ1050AC	AZ12-023 x 1	Domnick Hunter	
EZ1050AO	10CZ12-023 x 1	Domnick Hunter	
EZ1070AA	6CZ12-029 x 1	Domnick Hunter	
EZ1070AC	AZ12-029 x 1	Domnick Hunter	
EZ1070AO	10CZ12-029 x 1	Domnick Hunter	
EZ1140AA	6CZ12-056 x 1	Domnick Hunter	
EZ1140AC	AZ12-056 x 1	Domnick Hunter	
EZ1140AO	10CZ12-056 x 1	Domnick Hunter	
EZ2010AA	6CZ20-046 x 1	Domnick Hunter	
EZ2010AC	AZ20-046 x 1	Domnick Hunter	
EZ2010AO	10CZ20-046 x 1	Domnick Hunter	
EZ2020AA	6CZ20-086 x 1	Domnick Hunter	
EZ2020AC	AZ20-086 x 1	Domnick Hunter	
EZ2020AO	10CZ20-086 x 1	Domnick Hunter	
EZ2030AA	6CZ20-126 x 1	Domnick Hunter	
EZ2030AC	AZ20-126 x 1	Domnick Hunter	
EZ2030AO	10CZ20-126 x 1	Domnick Hunter	
EZ2050AA	6CZ20-200 x 1	Domnick Hunter	
EZ2050AC	AZ20-200 x 1	Domnick Hunter	
EZ2050AO	10CZ20-200 x 1	Domnick Hunter	
EZ3050AA	6CZ27-200 x 1	Domnick Hunter	
EZ3050AC	AZ27-200 x 1	Domnick Hunter	
EZ3050AO	10CZ27-200 x 1	Domnick Hunter	
EZ3075AA	6CZ27-298 x 1	Domnick Hunter	
EZ3075AC	AZ27-298 x 1	Domnick Hunter	
EZ3075AO	10CZ27-298 x 1	Domnick Hunter	
EZ5060AA	6CZ46-239 x 1	Domnick Hunter	
EZ5060AC	AZ46-239 x 1	Domnick Hunter	
EZ5060AO	10CZ46-239 x 1	Domnick Hunter	
EZ5075AA	6CZ50-298 x 1	Domnick Hunter	
EZ5075AC	AZ50-298 x 1	Domnick Hunter	
EZ5075AO	10CZ50-298 x 1	Domnick Hunter	
F05013VE-T	10G04-013 x 10	Filtersoft	
F05013VE-W	10H04-013 x 10	Filtersoft	
F05013WE-T	8T04-013 x 10	Filtersoft	
F05013WE-W	8H04-013 x 10	Filtersoft	
F05013XE-T	6G04-013 x 10	Filtersoft	
F05013XE-W	6H04-013 x 10	Filtersoft	
F05023VE-T	10G04-023 x 10	Filtersoft	
F05023VE-W	10H04-023 x 10	Filtersoft	
F05023VH-TB	10T04-023 x 10	Filtersoft	
F05023WE-T	8T04-023 x 10	Filtersoft	
F05023WE-W	8H04-023 x 10	Filtersoft	
F05023XE-T	6G04-023 x 10	Filtersoft	
F05023XE-W	6H04-023 x 10	Filtersoft	
F05023XH-TB	6T04-023 x 10	Filtersoft	
F07013QE-CU	14JU07-013 x 10	Filtersoft	
F10020QE-CU	14JU10-020 x 10	Filtersoft	
F10020VE-W	10H10-020 x 8	Filtersoft	
F10020XE-W	6H10-020 x 8	Filtersoft	
F10025VE-T	10G10-025 x 10	Filtersoft	
F10025VE-W	10H10-025 x 8	Filtersoft	
F10025VH-TB	10T10-025 x 10	Filtersoft	
F10025WE-T	8T10-025 x 10	Filtersoft	
F10025WE-W	8H10-025 x 8	Filtersoft	
F10025XE-T	6G10-025 x 10	Filtersoft	
F10025XE-W	6H10-025 x 8	Filtersoft	
F10025XH-TB	6T10-025 x 10	Filtersoft	
F10050VE-W	10H10-050 x 4	Filtersoft	
F10050WE-W	8H10-050 x 4	Filtersoft	
F10050XE-W	6H10-050 x 4	Filtersoft	
F10070VE-T	10G10-070 x 10	Filtersoft	
F10070VE-W	10H10-070 x 4	Filtersoft	
F10070VH-TB	10T10-070 x 10	Filtersoft	
F10070WE-T	8T10-070 x 11	Filtersoft	
F10070WE-W	8H10-070 x 4	Filtersoft	
F10070XE-T	6G10-070 x 10	Filtersoft	
F10070XE-W	6H10-070 x 4	Filtersoft	
F10070XH-TB	6T10-070 x 10	Filtersoft	
F15043QE-CU	14JU15-043 x 10	Filtersoft	
F15060AU	AB15-060 x 4	Filtersoft	
F15060AU	AU15-060 x 4	Filtersoft	
F15060VE-T	10G15-060 x 10	Filtersoft	
F15060VE-W	10H15-060 x 4	Filtersoft	
F15060WE-W	8H15-060 x 4	Filtersoft	
F15060XE-T	6G15-060 x 10	Filtersoft	
F15060XE-W	6H15-060 x 4	Filtersoft	

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
F20035VE-W	10H20-035 x 4	Filtersoft	
F20035WE-W	8H20-035 x 4	Filtersoft	
F20035XE-W	6H20-035 x 4	Filtersoft	
F20090VE-T	10G20-090 x 10	Filtersoft	
F20090VE-W	10H20-090 x 2	Filtersoft	
F20090WE-W	8H20-090 x 2	Filtersoft	
F20090XE-T	6G20-090 x 10	Filtersoft	
F20090XE-W	6H20-090 x 2	Filtersoft	
F20187VE-T	10G20-187 x 10	Filtersoft	
F20187VE-W	10H20-187 x 1	Filtersoft	
F20187WE-W	8H20-187 x 1	Filtersoft	
F20187XE-T	6G20-187 x 10	Filtersoft	
F20187XE-W	6H20-187 x 1	Filtersoft	
F26075QE-CU	14JU26-075 x 4	Filtersoft	
F26120QE-CU	14JU26-120 x 4	Filtersoft	
F26240QE-CU	14JU26-240 x 4	Filtersoft	
F350 (350° F)	3PS19-187 x 1	Henderson	KX-16H
F350 (450° F)	10DS19-187 x 1	Henderson	KX-16H
FA1030AP-AB	AZ07-020 x 1	Filtersoft	
FA1030K-CB	3PZ07-020 x 1	Filtersoft	
FA1030WE-CB	10CZ07-020 x 1	Filtersoft	
FA1030XE-CB	8CZ07-020 x 1	Filtersoft	
FA1030YE-CB	6CZ07-020 x 1	Filtersoft	
FA1050AP-AB	AZ12-023 x 1	Filtersoft	
FA1050K-CB	3PZ12-023 x 1	Filtersoft	
FA1050WE-CB	10CZ12-023 x 1	Filtersoft	
FA1050XE-CB	8CZ12-023 x 1	Filtersoft	
FA1050YE-CB	6CZ12-023 x 1	Filtersoft	
FA1070AP-AB	AZ12-029 x 1	Filtersoft	
FA1070K-CB	3PZ12-029 x 1	Filtersoft	
FA1070WE-CB	10CZ12-029 x 1	Filtersoft	
FA1070XE-CB	8CZ12-029 x 1	Filtersoft	
FA1070YE-CB	6CZ12-029 x 1	Filtersoft	
FA1140AP-AB	AZ12-056 x 1	Filtersoft	
FA1140K-CB	3PZ12-056 x 1	Filtersoft	
FA1140WE-CB	10CZ12-056 x 1	Filtersoft	
FA1140XE-CB	8CZ12-056 x 1	Filtersoft	
FA1140YE-CB	6CZ12-056 x 1	Filtersoft	
FA2010AP-AB	AZ20-046 x 1	Filtersoft	
FA2010K-CB	3PZ20-046 x 1	Filtersoft	
FA2010WE-CB	10CZ20-046 x 1	Filtersoft	
FA2010XE-CB	8CZ20-046 x 1	Filtersoft	
FA2010YE-CB	6CZ20-046 x 1	Filtersoft	
FA2020AP-AB	AZ20-086 x 1	Filtersoft	
FA2020K-CB	3PZ20-086 x 1	Filtersoft	
FA2020WE-CB	10CZ20-086 x 1	Filtersoft	
FA2020XE-CB	8CZ20-086 x 1	Filtersoft	
FA2020YE-CB	6CZ20-086 x 1	Filtersoft	
FA2030AP-AB	AZ20-126 x 1	Filtersoft	
FA2030K-CB	3PZ20-126 x 1	Filtersoft	
FA2030WE-CB	10CZ20-126 x 1	Filtersoft	
FA2030XE-CB	8CZ20-126 x 1	Filtersoft	
FA2030YE-CB	6CZ20-126 x 1	Filtersoft	
FA2050AP-AB	AZ20-200 x 1	Filtersoft	
FA2050K-CB	3PZ20-200 x 1	Filtersoft	
FA2050WE-CB	10CZ20-200 x 1	Filtersoft	
FA2050XE-CB	8CZ20-200 x 1	Filtersoft	
FA2050YE-CB	6CZ20-200 x 1	Filtersoft	
FA3050AP-AB	AZ27-200 x 1	Filtersoft	
FA3050K-CB	3PZ27-200 x 1	Filtersoft	
FA3050WE-CB	10CZ27-200 x 1	Filtersoft	
FA3050XE-CB	8CZ27-200 x 1	Filtersoft	
FA3050YE-CB	6CZ27-200 x 1	Filtersoft	
FA3075AP-AB	AZ27-298 x 1	Filtersoft	
FA3075K-CB	3PZ27-298 x 1	Filtersoft	
FA3075WE-CB	10CZ27-298 x 1	Filtersoft	
FA3075XE-CB	8CZ27-298 x 1	Filtersoft	
FA3075YE-CB	6CZ27-298 x 1	Filtersoft	
FA5075AP-AB	AZ50-298 x 1	Filtersoft	
FA5075K-CB	3PZ50-298 x 1	Filtersoft	
FA5075WE-CB	10CZ50-298 x 1	Filtersoft	
FA5075WE-CB	10CZ50-298 x 1	Filtersoft	
FA5075XE-CB	8CZ50-298 x 1	Filtersoft	
FA5075YE-CB	6CZ50-298 x 1	Filtersoft	
FB302VE-CB	8CF20-099 x 2	Filtersoft	
FB303VE-CB	8CF20-147 x 1	Filtersoft	
FB304VE-CB	8CF20-197 x 1	Filtersoft	
FE006AAYE-CB	6CF08-026 x 1	Filtersoft	
FE006AOVE-CBM	10CF08-026 x 1	Filtersoft	
FE013AAYE-CB	6IF10-032 x 1	Filtersoft	
FE013AOVE-CBM	10IF10-032 x 1	Filtersoft	
FE025AAYE-CB	6IF10-046 x 1	Filtersoft	
FE025AOVE-CBM	10IF10-046 x 1	Filtersoft	
FE040AAYE-CB	6IF20-063 x 1	Filtersoft	
FE040AOVE-CBM	10IF20-063 x 1	Filtersoft	
FE085AAYE-CB	6IF20-102 x 1	Filtersoft	
FE085AOVE-CBM	10IF20-102 x 1	Filtersoft	
FE195AAYE-CB	6IF25-134 x 1	Filtersoft	
FE195AC-AB	AF25-134 x 1	Filtersoft	
FE195AOVE-CBM	10IF25-134 x 1	Filtersoft	
FE295AAYE-CB	6IF25-254 x 1	Filtersoft	
FE295AC-AB	AF25-254 x 1	Filtersoft	
FE295AOVE-CBM	10IF25-254 x 1	Filtersoft	
FE400AAYE-CB	6CF35-165 x 1	Filtersoft	
FE400AC-AB	AF35-165 x 1	Filtersoft	
FE400AOVE-CBM	10CF35-165 x 1	Filtersoft	
FE500AAYE-CB	6CF43-252 x 1	Filtersoft	
FE500AC-AB	AF43-252 x 1	Filtersoft	
FE500AOVE-CBM	10CF43-252 x 1	Filtersoft	
FF 02/05	10HJN08-024 x 1	Ultrafilter	
FF 03/05	10HJN08-030 x 1	Ultrafilter	
FF 03/10	10CJN10-030 x 1	Ultrafilter	
FF 04/10	10CJN10-040 x 1	Ultrafilter	
FF 04/20	10CJN13-040 x 1	Ultrafilter	
FF 05/20	10CJN13-050 x 1	Ultrafilter	
FF 05/25	10IJN15-050 x 1	Ultrafilter	
FF 07/25	10IJN15-070 x 1	Ultrafilter	
FF 07/30	10IJN25-070 x 1	Ultrafilter	

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
FF 10/3	10IJ25-100 x 1	Ultrafilter	
FF 10/30	10IJN25-100 x 1	Ultrafilter	
FF 15/3	10IG25-150 x 1	Ultrafilter	
FF 15/30	10IGN25-150 x 1	Ultrafilter	
FF 20/3	10IG25-200 x 1	Ultrafilter	
FF 20/30	10IGN25-200 x 1	Ultrafilter	
FF 3/1	10CJ10-030 x 1	Ultrafilter	
FF 3/1,5	10CJ13-030 x 1	Ultrafilter	
FF 30/3	10IG25-300 x 1	Ultrafilter	
FF 30/30	10IGN25-300 x 1	Ultrafilter	
FF 30/5	10QG43-300 x 1	Ultrafilter	
FF 30/50	10QGN43-300 x 1	Ultrafilter	
FF 4/1,5	10CJ13-044 x 1	Ultrafilter	
FF 4/2,5	10IJ15-040 x 1	Ultrafilter	
FF 5/2,5	10IJN15-050 x 1	Ultrafilter	
FF 5/3	10IJ25-050 x 1	Ultrafilter	
FH71311YE-CB	6CH25-260 x 1	Filtersoft	
FH7132YE-CB	6CM10-025 x 8	Filtersoft	KX-21
FH7133YE-CB	6CM10-050 x 4	Filtersoft	KX-22
FH7134YE-CB	6CM15-060 x 4	Filtersoft	KX-23
FH7135YE-CB	6CM15-095 x 2	Filtersoft	KX-24
FH7136YE-CB	6CM15-185 x 2	Filtersoft	KX-25
FH7137YE-CB	6CU25-187 x 1	Filtersoft	KX-2
FH7138YE-CB	6CU25-187 x 1	Filtersoft	KX-2
FH7139YE-CB	6CH25-260 x 1	Filtersoft	
FH71511-AB	AH25-260 x 1	Filtersoft	
FH7152-AB	AM10-025 x 8	Filtersoft	KX-21
FH7153-AB	AM10-050 x 4	Filtersoft	KX-22
FH7154-AB	AM15-060 x 4	Filtersoft	KX-23
FH7155-AB	AM15-095 x 2	Filtersoft	KX-24
FH7156-AB	AM15-185 x 2	Filtersoft	KX-25
FH7157-AB	AU25-187 x 1	Filtersoft	KX-2
FH7158-AB	AU25-187 x 1	Filtersoft	KX-2
FH7159-AB	AH25-260 x 1	Filtersoft	
FH7313VE-CB	10CM10-025 x 8	Filtersoft	KX-21
FH7314VE-CB	10CM10-050 x 4	Filtersoft	KX-22
FH7315VE-CB	10CM15-060 x 4	Filtersoft	KX-23
FH7316VE-CB	10CM15-095 x 1	Filtersoft	KX-24
FH7317VE-CB	10CM15-185 x 2	Filtersoft	KX-25
FH7318VE-CB	10CU25-187 x 1	Filtersoft	KX-2
FH7319VE-CB	10CH25-260 x 1	Filtersoft	
FI1306XE-C	6C85-250 x 1	Filtersoft	
FI1355XE-C	6C85-250 x 1	Filtersoft	
FI1645XE-C	6C85-360 x 1	Filtersoft	
FI1777XE-C	6C85-360 x 1	Filtersoft	
FN10DXE-CB	6IR04-019 x 4	Filtersoft	
FN20DXE-CB	6IR08-019 x 4	Filtersoft	
FN30DXE-CB	6IR10-034 x 4	Filtersoft	
FP14051J-PB	3PP14-051 x 4	Filtersoft	
FP14051XE-CB	6QP14-051 x 4	Filtersoft	
FP19098J-PU	3PP19-098 x 2	Filtersoft	
FP19098VH-RS	10DP19-098 x 2	Filtersoft	
FP19098VH-RSI	10DPS19-098 x 2	Filtersoft	
FP19098XE-CU	6QP19-098 x 2	Filtersoft	
FP19098XE-DB	6QP19-098 x 2	Filtersoft	
FP19098XK-CB	6QP19-098 x 2	Filtersoft	
FP19198J-PU	3PP19-198 x 2	Filtersoft	
FP19198VH-RS	10DP19-198 x 2	Filtersoft	
FP19198VH-RSI	10DPS19-198 x 2	Filtersoft	
FP19198XE-CU	6QP19-198 x 2	Filtersoft	
FP19198XE-DB	6QP19-198 x 2	Filtersoft	
FP19298XE-CU	6QP19-298 x 1	Filtersoft	
FP19298XE-DB	6QP19-298 x 1	Filtersoft	
FP26132J-PU	3PP26-132 x 2	Filtersoft	
FP26132VH-RS	10DP26-132 x 2	Filtersoft	
FP26132XK-CBI	6QP28-132 x 2	Filtersoft	
FP26132XK-CU	6QP28-132 x 2	Filtersoft	
FP26132XK-CUI	6QPS28-132 x 2	Filtersoft	
FP26265J-PU	3PP26-265 x 1	Filtersoft	
FP26265VH-RS	10DP26-265 x 1	Filtersoft	
FP26265XK-CU	6QP28-265 x 1	Filtersoft	
FP30142J-PB	3PP30-143 x 1	Filtersoft	
FP30142J-PBI	3PP30-143 x 1	Filtersoft	
FP30142VH-RV	10DP30-143 x 1	Filtersoft	
FP30142VH-RVI	10DPS30-143 x 1	Filtersoft	
FP30142XE-CB	6QP30-143 x 1	Filtersoft	
FP30142XE-CBI	6QPS30-143 x 1	Filtersoft	
FP30295J-PB	3PP30-295 x 1	Filtersoft	
FP30295J-PBI	3PP30-295 x 1	Filtersoft	
FP30295VH-RV	10DP30-295 x 1	Filtersoft	
FP30295VH-RVI	10DPS30-295 x 1	Filtersoft	
FP30295XE-CB	6QP30-295 x 1	Filtersoft	
FP30295XE-CBI	6QPS30-295 x 1	Filtersoft	
FRP-85-168	14JU26-120 x 4	Wilkerson	
FRP-85-169	14JU26-240 x 4	Wilkerson	
FRP-95-115	14JU10-020 x 10	Wilkerson	
FRP-95-160	14JU07-013 x 10	Wilkerson	
FRP-95-172	14JU26-075 x 4	Wilkerson	
FRP-95-203	14JU26-075 x 4	Wilkerson	
FRP-95-206	14JU10-020 x 10	Wilkerson	
FRP-95-209	14JU15-043 x 10	Wilkerson	
FRP-95-210	14JU15-043 x 10	Wilkerson	
FRP-95-212	14JU26-120 x 4	Wilkerson	
FRP-95-213	14JU26-240 x 4	Wilkerson	
FRP-95-236	14JU10-020 x 10	Wilkerson	
FRP-95-267	14JU07-013 x 10	Wilkerson	
FRP-95-268	14JU10-020 x 10	Wilkerson	
FRP-95-269	14JU10-020 x 10	Wilkerson	
FRP-95-271	14JU15-043 x 10	Wilkerson	
FRP-95-272	14JU15-043 x 10	Wilkerson	
FRP-95-273	14JU26-075 x 4	Wilkerson	
FRP-95-274	14JU26-075 x 4	Wilkerson	
FRP-95-566	14JU26-075 x 4	Wilkerson	
FRP-95-567	14JU26-075 x 4	Wilkerson	
FS1357YE-CB	6CJ25-120 x 2	Filtersoft	
FS1358YE-CB	6CJ25-120 x 2	Filtersoft	
FS1359YE-CB	6CJ25-240 x 1	Filtersoft	
FS1360YE-CB	6CJ25-240 x 1	Filtersoft	

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
FS1361YE-CB	6CJ25-240 x 1	Filtersoft	
FS1362YE-CB	6CJ25-240 x 1	Filtersoft	
FS1367YE-CB	6CJ25-240 x 1	Filtersoft	
FS1368YE-CB	6CJ25-240 x 1	Filtersoft	
FS1370-AB	AJ25-240 x 1	Filtersoft	
FS1372-AB	AJ25-120 x 2	Filtersoft	
FS1373-AB	AJ25-120 x 2	Filtersoft	
FS1375-AB	AJ25-240 x 1	Filtersoft	
FS1377-AB	AJ25-240 x 1	Filtersoft	
FS1378-AB	AJ25-240 x 1	Filtersoft	
FS1379-AB	AJ25-240 x 1	Filtersoft	
FS1407YE-CB	6CJ25-120 x 2	Filtersoft	
FS1408YE-CB	6CJ25-240 x 1	Filtersoft	
FS1412-AB	AJ25-120 x 2	Filtersoft	
FS1413-AB	AJ25-240 x 1	Filtersoft	
FS1413YE-CB	6CJ25-240 x 1	Filtersoft	
FS1418-AB	AJ25-240 x 1	Filtersoft	
FS5025-AB	AJ25-240 x 1	Filtersoft	
FS5027-AB	AJ25-240 x 1	Filtersoft	
FUF0205WE-CB	10HJN08-024 x 1	Filtersoft	
FUF0305WE-CB	10HJN08-030 x 1	Filtersoft	
FUF0310WE-CB	10CJN10-030 x 1	Filtersoft	
FUF0410WE-CB	10CJN10-040 x 1	Filtersoft	
FUF0420WE-CB	10CJN13-040 x 1	Filtersoft	
FUF0520WE-CB	10CJN13-050 x 1	Filtersoft	
FUF0525WE-CB	10IJN15-050 x 1	Filtersoft	
FUF0725WE-CB	10IJN15-070 x 1	Filtersoft	
FUF0730WE-CB	10IJN25-070 x 1	Filtersoft	
FUF1030WE-CB	10IJN25-100 x 1	Filtersoft	
FUF103WE-CB	10IJ25-100 x 1	Filtersoft	
FUF1530WE-CB	10IGN25-150 x 1	Filtersoft	
FUF153WE-CB	10IG25-150 x 1	Filtersoft	
FUF2030WE-CB	10IGN25-200 x 1	Filtersoft	
FUF203WE-CB	10IG25-200 x 1	Filtersoft	
FUF3030WE-CB	10IGN25-300 x 1	Filtersoft	
FUF303WE-CB	10IG25-300 x 1	Filtersoft	
FUF3050WE-CB	10QGN43-300 x 1	Filtersoft	
FUF305WE-CB	10QG43-300 x 1	Filtersoft	
FUF315WE-CB	10CJ13-030 x 1	Filtersoft	
FUF31WE-CB	10CJ10-030 x 1	Filtersoft	
FUF415WE-CB	10CJ13-044 x 1	Filtersoft	
FUF425WE-CB	10IJ15-040 x 1	Filtersoft	
FUF525WE-CB	10IJN15-050 x 1	Filtersoft	
FUF53WE-CB	10IJ25-050 x 1	Filtersoft	
FUK0205-AB	AJN08-024 x 1	Filtersoft	
FUK0305-AB	AJN08-030 x 1	Filtersoft	
FUK0310-AB	AJN10-030 x 1	Filtersoft	
FUK0410-AB	AJN10-040 x 1	Filtersoft	
FUK0420-AB	AJN13-040 x 1	Filtersoft	
FUK0520-AB	AJN13-050 x 1	Filtersoft	
FUK0525-AB	AJN15-050 x 1	Filtersoft	
FUK0725-AB	AJN15-070 x 1	Filtersoft	
FUK0730-AB	AJN25-070 x 1	Filtersoft	
FUK1030-AB	AJN25-100 x 1	Filtersoft	
FUK103-AB	AJ25-100 x 1	Filtersoft	
FUK1530-AB	AGN25-150 x 1	Filtersoft	
FUK153-AB	AG25-150 x 1	Filtersoft	
FUK2030-AB	AGN25-200 x 1	Filtersoft	
FUK203-AB	AG25-200 x 1	Filtersoft	
FUK3030-AB	AGN25-300 x 1	Filtersoft	
FUK303-AB	AG25-300 x 1	Filtersoft	
FUK3050-AB	AGN43-300 x 1	Filtersoft	
FUK305-AB	AG43-300 x 1	Filtersoft	
FUK315-AB	AJ13-030 x 1	Filtersoft	
FUK31-AB	AJ10-030 x 1	Filtersoft	
FUK415-AB	AJ13-044 x 1	Filtersoft	
FUK425-AB	AJ15-040 x 1	Filtersoft	
FUK525-AB	AJN15-050 x 1	Filtersoft	
FUK53-AB	AJ25-050 x 1	Filtersoft	
FUM0205XE-CB	6HJN08-024 x 1	Filtersoft	
FUM0305XE-CB	6HJN08-030 1	Filtersoft	
FUM0310XE-CB	6CJN10-030 x 1	Filtersoft	
FUM0410XE-CB	6CJN10-040 x 1	Filtersoft	
FUM0420XE-CB	6CJN13-040 x 1	Filtersoft	
FUM0520XE-CB	6CJN13-050 x 1	Filtersoft	
FUM0525XE-CB	6IJN15-050 x 1	Filtersoft	
FUM0725XE-CB	6IJN15-070 x 1	Filtersoft	
FUM0730XE-CB	6IJN25-070 x 1	Filtersoft	
FUM1030XE-CB	6IJN25-100 x 1	Filtersoft	
FUM103XE-CB	6IJ25-100 x 1	Filtersoft	
FUM1530XE-CB	6IGN25-150 x 1	Filtersoft	
FUM153XE-CB	6IG25-150 x 1	Filtersoft	
FUM2030XE-CB	6IGN25-200 x 1	Filtersoft	
FUM203XE-CB	6IG25-200 x 1	Filtersoft	
FUM3030XE-CB	6IGN25-300 x 1	Filtersoft	
FUM303XE-CB	6IG25-300 x 1	Filtersoft	
FUM3050XE-CB	6QGN43-300 x 1	Filtersoft	
FUM3050XE-CB	6QGN43-300 x 1	Filtersoft	
FUM305XE-CB	6QG43-300 x 1	Filtersoft	
FUM315XE-CB	6CJ13-030 x 1	Filtersoft	
FUM31XE-CB	6CJ10-030 x 1	Filtersoft	
FUM415XE-CB	6CJ13-044 x 1	Filtersoft	
FUM425XE-CB	6IJ15-040 x 1	Filtersoft	
FUM525XE-CB	6IJN15-050 x 1	Filtersoft	
FUM53XE-CB	6IJ25-050 x 1	Filtersoft	
FUS0205YE-CB	4HJN08-024 x 1	Filtersoft	
FUS0305YE-CB	4HJN08-030 x 1	Filtersoft	
FUS0310YE-CB	4CJN10-030 x 1	Filtersoft	
FUS0410YE-CB	4CJN10-040 x 1	Filtersoft	
FUS0420YE-CB	4CJN13-040 x 1	Filtersoft	
FUS0520YE-CB	4CJN13-050 x 1	Filtersoft	
FUS0525YE-CB	4IJN15-050 x 1	Filtersoft	
FUS0725YE-CB	4IJN15-070 x 1	Filtersoft	
FUS0730YE-CB	4IJN25-070 x 1	Filtersoft	
FUS1030YE-CB	4IJN25-100 x 1	Filtersoft	
FUS103YE-CB	4IJ25-100 x 1	Filtersoft	
FUS1530YE-CB	4IGN25-150 x 1	Filtersoft	
FUS153YE-CB	4IG25-150 x 1	Filtersoft	

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
FUS2030YE-CB	4IGN25-200 x 1	Filtersoft	
FUS203YE-CB	4IG25-200 x 1	Filtersoft	
FUS3030YE-CB	4IGN25-300 x 1	Filtersoft	
FUS303YE-CB	4IG25-300 x 1	Filtersoft	
FUS3050YE-CB	4QGN43-300 x 1	Filtersoft	
FUS305YE-CB	4QG43-300 x 1	Filtersoft	
FUS315YE-CB	4CJ13-030 x 1	Filtersoft	
FUS31YE-CB	4CJ10-030 x 1	Filtersoft	
FUS415YE-CB	4CJ13-044 x 1	Filtersoft	
FUS425YE-CB	4IJ15-040 x 1	Filtersoft	
FUS525YE-CB	4IJN15-050 x 1	Filtersoft	
FUS53YE-CB	4IJ25-050 x 1	Filtersoft	
FV1500VE-CB	10ICC25-240 x 1	Filtersoft	
FV1500VE-SBM	10DC25-240 x 1	Filtersoft	
FV1500VH-SBM	10DC25-240 x 1	Filtersoft	
FV1500XE-CB	8ICC25-240 x 1	Filtersoft	
FV1500XE-SBM	8DC25-240 x 1	Filtersoft	
FV1500ZE-CB	6ICC25-240 x 1	Filtersoft	
FV1500ZE-SBM	6DC25-240 x 1	Filtersoft	
FV15XE-CB2	6CC15-150 x 2	Filtersoft	
FV15ZE-CB2	2CC15-150 x 2	Filtersoft	
FV1625VE-CB	10ICC25-300 x 1	Filtersoft	
FV1625VE-SBM	10DC25-300 x 1	Filtersoft	
FV1625VH-SBM	10DC25-300 x 1	Filtersoft	
FV1625XE-CB	8ICC25-300 x 1	Filtersoft	
FV1625XE-SBM	8DC25-300 x 1	Filtersoft	
FV1625ZE-CB	6ICC25-300 x 1	Filtersoft	
FV1625ZE-SBM	6DC25-300 x 1	Filtersoft	
FV22XE-CB	6ICC25-220 x 1	Filtersoft	
FV22ZE-CB	2ICC25-220 x 1	Filtersoft	
FV860XE-CB	6CC15-060 x 2	Filtersoft	
FV860ZE-CB	2CC15-060 x 2	Filtersoft	
FV8XE-CB	6CC15-080 x 2	Filtersoft	
FV8ZE-CB	2CC15-080 x 2	Filtersoft	
FVKE15H-RSA	10DC15-150 x 2	Filtersoft	
FVKE15J-PB	3PC15-150 x 2	Filtersoft	
FVKE22H-RSA	10DC25-220 x 1	Filtersoft	
FVKE22J-PB	3PCC25-220 x 1	Filtersoft	
FVKE6J-PB	3PC15-080 x 2	Filtersoft	
FVKEJ-PB	3PC15-060 x 2	Filtersoft	
FW532-AS	AK15-052 x 4	Filtersoft	
FW534-AB	AK25-238 x 1	Filtersoft	
FW535-AB	AL25-063 x 2	Filtersoft	
FW538-AB	AK35-074 x 2	Filtersoft	
FW540-AB	AL10-024 x 4	Filtersoft	
FW548YE-CB	6HL10-021 x 4	Filtersoft	
FW549YE-CB	6CL10-024 x 4	Filtersoft	
FW550YE-CB	6CU10-052 x 4	Filtersoft	
FW551YE-CS	6CK15-052 x 4	Filtersoft	
FW552YE-CB	6CL25-063 x 2	Filtersoft	
FW553YE-CB	6CK35-074 x 2	Filtersoft	
FW554YE-CB	6CK25-119 x 2	Filtersoft	
FW555YE-CB	6CK25-238 x 1	Filtersoft	
FW556WE-CB	8CK25-119 x 2	Filtersoft	
FW557WE-CB	8CK25-238 x 1	Filtersoft	
FW558-AB	AK25-080 x 2	Filtersoft	
FW559YE-CB	6CK25-080 x 2	Filtersoft	
FW560YE-CBA	6CK35-074 x 2	Filtersoft	
FW561YE-CBA	6CK35-106 x 1	Filtersoft	
FW562YE-CBA	6CK35-172 x 1	Filtersoft	
FW563-ABA	AK35-074 x 2	Filtersoft	
FW564-ABA	AK35-106 x 1	Filtersoft	
FW565-ABA	AK35-172 x 1	Filtersoft	
FW874WE-CBA	8CK35-074 x 2	Filtersoft	
FW875WE-CBA	8CK35-106 x 1	Filtersoft	
FW876WE-CBA	8CK35-172 x 1	Filtersoft	
FW988WE-CB	8HL10-021 x 4	Filtersoft	
FW989WE-CB	8CL10-024 x 4	Filtersoft	
FW992WE-CS	8CK15-052 x 4	Filtersoft	
G78A3 (9-3/4")	3PP15-098 x 2	Cuno (AMF Cuno)	
G78B2 (9-3/4")	3PP15-098 x 2	Cuno (AMF Cuno)	
G80A3 (10")	3PP15-100 x 2	Cuno (AMF Cuno)	
G80B2 (10")	3PP15-100 x 2	Cuno (AMF Cuno)	
HK71311C	6CH25-260 x 1	Flair	
HK71312C	6CU25-187 x 1	Flair	KX-2
HK7132C	6CM10-025 x 8	Flair	KX-21
HK7133C	6CM10-050 x 4	Flair	KX-22
HK7134C	6CM15-060 x 4	Flair	KX-23
HK7135C	6CM15-095 x 2	Flair	KX-24
HK7136C	6CM15-185 x 2	Flair	KX-25
HK7137C	6CU25-187 x 1	Flair	KX-2
HK7313P	10CM10-025 x 8	Flair	KX-21
HK7314P	10CM10-050 x 4	Flair	KX-22
HK7315P	10CM15-060 x 4	Flair	KX-23
HK7316P	10CM15-095 x 2	Flair	KX-24
HK7317P	10CM15-185 x 2	Flair	KX-25
HK7318P	10CU25-187 x 1	Flair	KX-2
HK7319P	10CH25-260 x 1	Flair	
K145AA	6IF20-102 x 1	Domnick Hunter	
K145ACS	AF20-102 x 1	Domnick Hunter	
K145AO	10IF20-102 x 1	Domnick Hunter	
K220AA	6IF25-134 x 1	Domnick Hunter	
K220ACS	AF25-134 x 1	Domnick Hunter	
K220AO	10IF25-134 x 1	Domnick Hunter	
K330AA	6IF25-254 x 1	Domnick Hunter	
K330ACS	AF25-254 x 1	Domnick Hunter	
K330AO	10IF25-254 x 1	Domnick Hunter	
K430AA	6IF35-165 x 1	Domnick Hunter	
K430ACS	AF35-165 x 1	Domnick Hunter	
K430AO	10CF35-165 x 1	Domnick Hunter	
KE-15	3PC15-150 x 2	Van Air	
KE-15HT	10DC15-150 x 2	Van Air	
KE-22	3PCC25-220 x 1	Van Air	
KE-22HT	10DC25-220 x 1	Van Air	
KE-6/100	3PC15-080 x 2	Van Air	
KE-6/60	3PC15-060 x 2	Van Air	
MCC-1001HT	10DP19-098 x 2	Pall/PPC	
MCC-1001SU	6QP19-098 x 2	Pall/PPC	

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
MCC-1002HT	10DP19-198 x 2	Pall/PPC	
MCC-1002SU	6QP19-198 x 2	Pall/PPC	
MCC-1201HT	10DP26-132 x 2	Pall/PPC	
MCC-1201SU	6QP28-132 x 2	Pall/PPC	
MCC-1202HT	10DP26-265 x 1	Pall/PPC	
MCC-1202SU	6QP28-265 x 1	Pall/PPC	
MCC-4463SU	6QP14-051 x 4	Pall/PPC	
MCS-1001CE	AP19-098 x 2	Pall/PPC	
MCS-1001HT	10DPS19-098 x 2	Pall/PPC	
MCS-1001SU	6QP19-098 x 2	Pall/PPC	
MCS-1002HT	10DPS19-198 x 2	Pall/PPC	
MCS-4463AF	3PP14-051 x 4	Pall/PPC	
MCS-4463EC	3PP14-051 x 4	Pall/PPC	
MCS-4463SU	6QP14-051 x 4	Pall/PPC	
MDC-1001AF	3PP19-098 x 2	Pall/PPC	
MDC-1001CE	AP19-098 x 2	Pall/PPC	
MDC-1001CV	AP19-098 x 2	Pall/PPC	
MDC-1001HT	10DP19-098 x 2	Pall/PPC	
MDC-1001SAU	AP19-098 x 2	Pall/PPC	
MDC-1001SU	6QP19-098 x 2	Pall/PPC	
MDC-1002AF	3PP19-198 x 2	Pall/PPC	
MDC-1002HT	10DP19-198 x 2	Pall/PPC	
MDC-1002SAU	AP19-198 x 2	Pall/PPC	
MDC-1201AF	3PP26-132 x 2	Pall/PPC	
MDC-1201HT	10DP26-132 x 2	Pall/PPC	
MDC-1201SAU	AP26-132 x 2	Pall/PPC	
MDC-1201SU	6QP28-132 x 2	Pall/PPC	
MDC-1202EC	3PP26-265 x 1	Pall/PPC	
MDC-1202HT	10DP26-265 x 1	Pall/PPC	
MDC-1202SAU	AP26-265 x 1	Pall/PPC	
MDC-1202SU	6QP28-265 x 1	Pall/PPC	
MDC-4463AF	3PP14-051 x 4	Pall/PPC	
MDC-4463SAU	AP14-051 x 4	Pall/PPC	
MDC-4463SU	6QP14-051 x 4	Pall/PPC	
MDS-1001HT	10DPS19-098 x 2	Pall/PPC	
MDS-1001SU	6QP19-098 x 2	Pall/PPC	
MDS-1002HT	10DPS19-198 x 2	Pall/PPC	
MDS-1201SU	6QPS28-132 x 2	Pall/PPC	
MDS-4463SU	6QP14-051 x 4	Pall/PPC	
MF 02/05	6HJN08-024 x 1	Ultrafilter	
MF 03/05	6HJN08-030 x 1	Ultrafilter	
MF 03/10	6CJN10-030 x 1	Ultrafilter	
MF 04/10	6CJN10-040 x 1	Ultrafilter	
MF 04/20	6CJN13-040 x 1	Ultrafilter	
MF 05/20	6CJN13-050 x 1	Ultrafilter	
MF 05/25	6IJN15-050 x 1	Ultrafilter	
MF 07/25	6IJN15-070 x 1	Ultrafilter	
MF 07/30	6IJN25-070 x 1	Ultrafilter	
MF 10/3	6IJ25-100 x 1	Ultrafilter	
MF 10/30	6IJN25-100 x 1	Ultrafilter	
MF 15/3	6IG25-150 x 1	Ultrafilter	
MF 15/30	6IGN25-150 x 1	Ultrafilter	
MF 20/3	6IG25-200 x 1	Ultrafilter	
MF 20/30	6IGN25-200 x 1	Ultrafilter	
MF 3/1	6CJ10-030 x 1	Ultrafilter	
MF 3/1,5	6CJ13-030 x 1	Ultrafilter	
MF 30/3	6IG25-300 x 1	Ultrafilter	
MF 30/30	6IGN25-300 x 1	Ultrafilter	
MF 30/5	6QG43-300 x 1	Ultrafilter	
MF 30/50	6QGN43-300 x 1	Ultrafilter	
MF 4/1,5	6CJ13-044 x 1	Ultrafilter	
MF 4/2,5	6IJ15-040 x 1	Ultrafilter	
MF 5/2,5	6IJN15-050 x 1	Ultrafilter	
MF 5/3	6IJ25-050 x 1	Ultrafilter	
MRP-15-140	6CU10-021 x 8	Wilkerson	KY- 1
MRP-15-143	6CK35-074 x 2	Wilkerson	
MRP-15-411	6CU10-052 x 4	Wilkerson	KY-2
MRP-15-412	6CL25-063 x 2	Wilkerson	
MRP-15-441	6CU10-052 x 4	Wilkerson	KY-2
MRP-15-508	6CK25-119 x 2	Wilkerson	
MRP-15-513	6CK25-238 x 1	Wilkerson	
MRP-15-532	AU10-052 x 4	Wilkerson	KY-2
MRP-15-533	AK25-119 x 2	Wilkerson	
MRP-15-534	AK25-238 x 1	Wilkerson	
MRP-15-535	AL25-063 x 2	Wilkerson	
MRP-15-536	AU10-021 x 1	Wilkerson	KY-1
MRP-15-537	AU10-052 x 4	Wilkerson	KY-2
MRP-15-538	AK35-074 x 2	Wilkerson	
MRP-95-534	AK25-238 x 1	Wilkerson	
MSP-95-556	8CK25-119 x 2	Wilkerson	
MSP-95-557	8CK25-238 x 1	Wilkerson	
MSP-95-873	8CK25-080 x 2	Wilkerson	
MSP-95-874	8CK35-074 x 2	Wilkerson	
MSP-95-875	8CK35-106 x 1	Wilkerson	
MSP-95-876	8CK35-172 x 1	Wilkerson	
MSP-95-988	8HL10-021 x 4	Wilkerson	
MSP-95-989	8CL10-024 x 4	Wilkerson	
MSP-95-992	8CK15-052 x 4	Wilkerson	
MTP-95-547	6HK04-013 x 10	Wilkerson	
MTP-95-548	6HL10-021 x 4	Wilkerson	
MTP-95-549	6CL10-024 x 4	Wilkerson	
MTP-95-550	6CU10-052 x 4	Wilkerson	KY-2
MTP-95-551	6CK15-052 x 4	Wilkerson	
MTP-95-552	6CL25-063 x 2	Wilkerson	
MTP-95-553	6CK35-074 x 2	Wilkerson	
MTP-95-554	6CK25-119 x 2	Wilkerson	
MTP-95-555	6CK25-238 x 1	Wilkerson	
MTP-95-559	6CK25-080 x 2	Wilkerson	
MTP-95-560	6CK35-074 x 2	Wilkerson	
MTP-95-561	6CK35-106 x 1	Wilkerson	
MTP-95-562	6CK35-172 x 1	Wilkerson	
MXP-15-533	AK25-119 x 2	Wilkerson	
MXP-95-532	AK15-052 x 4	Wilkerson	
MXP-95-535	AL25-063 x 2	Wilkerson	
MXP-95-536	AU10-021 x 8	Wilkerson	KY-1
MXP-95-538	AK35-074 x 2	Wilkerson	
MXP-95-540	AL10-024 x 4	Wilkerson	
MXP-95-558	AK25-080 x 2	Wilkerson	

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
MXP-95-563	AK35-074 x 2	Wilkerson	
MXP-95-564	AK35-106 x 1	Wilkerson	
MXP-95-565	AK35-172 x 1	Wilkerson	
MXP-95-987	AL10-021 x 4	Wilkerson	
OL-5C	6QP14-051 x 4	Pall/PPC	
OL-9C	6QP19-098 x 2	Pall/PPC	
P-AK 07/30	AGN25-070 x 1	Ultrafilter	
P-AK 10/30	AGN25-100 x 1	Ultrafilter	
PCC-060AF	3PP14-051 x 4	Pall/PPC	
PCC-1001AF	3PP19-098 x 2	Pall/PPC	
PCC-1001HT	10DP19-098 x 2	Pall/PPC	
PCC-1001SU	6QP19-098 x 2	Pall/PPC	
PCC-1002AF	3PP19-198 x 2	Pall/PPC	
PCC-1002HT	10DP19-198 x 2	Pall/PPC	
PCC-1002SU	6QP19-198 x 2	Pall/PPC	
PCC-1003AF	3PP19-298 x 1	Pall/PPC	
PCC-1003HT	10DP19-298 x 1	Pall/PPC	
PCC-1003SU	6QP19-298 x 1	Pall/PPC	
PCC-1200AF	3PP30-295 x 1	Pall/PPC	
PCC-1200HT	10DP30-295 x 1	Pall/PPC	
PCC-1200SU	6QP30-295 x 1	Pall/PPC	
PCC-1201AF	3PP26-132 x 2	Pall/PPC	
PCC-1201HT	10DP26-132 x 2	Pall/PPC	
PCC-1201SU	6QP28-132 x 2	Pall/PPC	
PCC-1202EC	3PP26-265 x 1	Pall/PPC	
PCC-1202HT	10DP26-265 x 1	Pall/PPC	
PCC-1202SU	6QP28-265 x 1	Pall/PPC	
PCC-350AF	3PP30-143 x 1	Pall/PPC	
PCC-350HT	10DP30-143 x 1	Pall/PPC	
PCC-350SU	6QP30-143 x 1	Pall/PPC	
PCC-4463AF	3PP14-051 x 4	Pall/PPC	
PCC-4463SU	6QP14-051 x 4	Pall/PPC	
PCC-600AF	3PP30-140 x 1	Pall/PPC	
PCC-600HT	10DP30-140 x 1	Pall/PPC	
PCC-600SU	6QP30-140 x 1	Pall/PPC	
PCC-700AF	3PP30-295 x 1	Pall/PPC	
PCC-700HT	10DP30-295 x 1	Pall/PPC	
PCC-700SU	6QP30-295 x 1	Pall/PPC	
PCS-060AF	3PP14-051 x 4	Pall/PPC	
PCS-1001AF	3PP19-098 x 2	Pall/PPC	
PCS-1001HT	10DPS19-098 x 2	Pall/PPC	
PCS-1001SU	6QP19-098 x 2	Pall/PPC	
PCS-1002AF	3PP19-198 x 2	Pall/PPC	
PCS-1002HT	10DPS19-198 x 2	Pall/PPC	
PCS-1002SU	6QP19-198 x 2	Pall/PPC	
PCS-1200HT	10DPS30-295 x 1	Pall/PPC	
PCS-350HT	10DPS30-143 x 1	Pall/PPC	
PCS-350SU	6QPS30-143 x 1	Pall/PPC	
PCS-4463AF	3PP14-051 x 4	Pall/PPC	
PCS-4463SU	6QP14-051 x 4	Pall/PPC	
PCS-700HT	10DPS30-295 x 1	Pall/PPC	
PCS-700SU	6QPS30-295 x 1	Pall/PPC	
PE 02/05	12GJN08-024 x 1	Ultrafilter	
PE 03/05	12GJN08-030 x 1	Ultrafilter	
PE 03/10	3PJN10-030 x 1	Ultrafilter	
PE 04/10	3PJN10-040 x 1	Ultrafilter	
PE 04/20	3PJN13-040 x 1	Ultrafilter	
PE 05/20	3PJN13-050 x 1	Ultrafilter	
PE 05/25	3PJN15-050 x 1	Ultrafilter	
PE 07/25	3PJN15-070 x 1	Ultrafilter	
PE 07/30	3PJN25-070 x 1	Ultrafilter	
PE 10/30	3PJN25-100 x 1	Ultrafilter	
PE 15/30	3PGN25-150 x 1	Ultrafilter	
PE 20/30	3PGN25-200 x 1	Ultrafilter	
PE 30/30	3PGN25-300 x 1	Ultrafilter	
PE 30/50	3PGN43-300 x 1	Ultrafilter	
PF 02/05	12GJN08-024 x 1	Domnick Hunter	
PF 03/05	12GJN08-030 x 1	Domnick Hunter	
PF 03/10	3PJN10-030 x 1	Domnick Hunter	
PF 04/10	3PJN10-040 x 1	Domnick Hunter	
PF 04/20	3PJN13-040 x 1	Domnick Hunter	
PF 05/20	3PJN13-050 x 1	Domnick Hunter	
PF 05/25	3PJN15-050 x 1	Domnick Hunter	
PF 07/25	3PJN15-070 x 1	Domnick Hunter	
PF 07/30	3PJN25-070 x 1	Domnick Hunter	
PF 10/30	3PJN25-100 x 1	Domnick Hunter	
PF 15/30	3PGN25-150 x 1	Domnick Hunter	
PF 20/30	3PGN25-200 x 1	Domnick Hunter	
PF 30/30	3PGN25-300 x 1	Domnick Hunter	
PF 30/50	3PGN43-300 x 1	Domnick Hunter	
P-FF 07/30	10IJN25-070 x 1	Ultrafilter	
P-FF 10/30	10IJN25-100 x 1	Ultrafilter	
P-MF 07/30	6IGN25-070 x 1	Ultrafilter	
P-MF 10/30	6IGN25-100 x 1	Ultrafilter	
POC-035SU	6QP14-051 x 4	Pall/PPC	
POC-060SU	6QP14-051 x 4	Pall/PPC	
POC-1001SU	6QP19-098 x 2	Pall/PPC	
POC-1200SU	6QP30-295 x 1	Pall/PPC	
POC-1201SU	6QP28-132 x 2	Pall/PPC	
POC-600SU	6QP30-140 x 1	Pall/PPC	
POS-1001SU	6QPS19-098 x 2	Pall/PPC	
POS-1201SU	6QPS28-132 x 1	Pall/PPC	
POS-600SU	6QPS30-140 x 1	Pall/PPC	
POS-700SU	6QPS30-295 x 1	Pall/PPC	
PPC-1200SU	6QP30-295 x 1	Pall/PPC	
PPC-1201SU	6QP28-132 x 2	Pall/PPC	
PPC-1202SU	6QP28-265 x 1	Pall/PPC	
PPC-350SU	6QP30-143 x 1	Pall/PPC	
PPC-700SU	6QP30-295 x 1	Pall/PPC	
P-PE 07/30	3PGN25-070 x 1	Ultrafilter	
P-PE 10/30	3PGN25-100 x 1	Ultrafilter	
PPY-1001SU	6QP19-098 x 2	Pall/PPC	
PPY-1002SU	6QP19-198 x 2	Pall/PPC	
PPY-1003SU	6QP19-298 x 1	Pall/PPC	
P-SMF 07/30	4IGN25-070 x 1	Ultrafilter	
P-SMF 10/30	4IGN25-100 x 1	Ultrafilter	
SB12	3PU19-050 x 2	Henderson	KX-12
SB4	3PN10-038 x 4	Henderson	KX-11

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
SMF 02/05	4HJN08-024 x 1	Ultrafilter	
SMF 03/05	4HJN08-030 x 1	Ultrafilter	
SMF 03/10	4CJN10-030 x 1	Ultrafilter	
SMF 04/10	4CJN10-040 x 1	Ultrafilter	
SMF 04/20	4CJN13-040 x 1	Ultrafilter	
SMF 05/20	4CJN13-050 x 1	Ultrafilter	
SMF 05/25	4IJN15-050 x 1	Ultrafilter	
SMF 07/25	4IJN15-070 x 1	Ultrafilter	
SMF 07/30	4IJN25-070 x 1	Ultrafilter	
SMF 10/3	4IJ25-100 x 1	Ultrafilter	
SMF 10/30	4IJN25-100 x 1	Ultrafilter	
SMF 15/3	4IG25-150 x 1	Ultrafilter	
SMF 15/30	4IGN25-150 x 1	Ultrafilter	
SMF 20/3	4IG25-200 x 1	Ultrafilter	
SMF 20/30	4IGN25-200 x 1	Ultrafilter	
SMF 3/1	4CJ10-030 x 1	Ultrafilter	
SMF 3/1,5	4CJ13-030 x 1	Ultrafilter	
SMF 30/3	4IG25-300 x 1	Ultrafilter	
SMF 30/30	4IGN25-300 x 1	Ultrafilter	
SMF 30/5	4QG43-300 x 1	Ultrafilter	
SMF 30/50	4QGN43-300 x 1	Ultrafilter	
SMF 4/1,5	4CJ13-044 x 1	Ultrafilter	
SMF 4/2,5	4IJ15-040 x 1	Ultrafilter	
SMF 5/2,5	4IJN15-050 x 1	Ultrafilter	
SMF 5/3	4IJ25-050 x 1	Ultrafilter	
U78A3 (9-3/4")	3PP15-098 x 2	Cuno (AMF Cuno)	
U78B2 (9-3/4")	3PP15-098 x 2	Cuno (AMF Cuno)	
U80A3 (10")	3PP15-100 x 2	Cuno (AMF Cuno)	
U80B2 (10")	3PP15-100 x 2	Cuno (AMF Cuno)	
UFAK0205	AJN08-024 x 1	Flair	
UFAK0305	AJN08-030 x 1	Flair	
UFAK0310	AJN10-030 x 1	Flair	
UFAK0410	AJN10-040 x 1	Flair	
UFAK0420	AJN13-040 x 1	Flair	
UFAK0520	AJN13-050 x 1	Flair	
UFAK0525	AJN15-050 x 1	Flair	
UFAK0725	AJN15-070 x 1	Flair	
UFAK0730	AJN25-070 x 1	Flair	
UFAK1030	AJN25-100 x 1	Flair	
UFAK1530	AGN25-150 x 1	Flair	
UFAK2030	AGN25-200 x1	Flair	
UFAK3030	AGN25-300 x 1	Flair	
UFAK3050	AGN43-300 x 1	Flair	
UFFF0205	10HJN08-024 x 1	Flair	
UFFF0305	10HJN08-030 x 1	Flair	
UFFF0310	10CJN10-030 x 1	Flair	
UFFF0410	10CJN10-040 x 1	Flair	
UFFF0420	10CJN13-040 x 1	Flair	
UFFF0520	10CJN13-050 x 1	Flair	
UFFF0525	10IJN15-050 x 1	Flair	
UFFF0725	10IJN15-070 x 1	Flair	
UFFF0730	10IJN25-070 x 1	Flair	
UFFF1030	10IJN25-100 x 1	Flair	
UFFF1530	10IGN25-150 x 1	Flair	
UFFF2030	10IGN25-200 x 1	Flair	
UFFF3030	10IGN25-300 x 1	Flair	
UFFF3050	10QGN43-300 x 1	Flair	
UFMF0205	6HJN08-024 x 1	Flair	
UFMF0305	6HJN08-030 x 1	Flair	
UFMF0310	6CJN10-030 x 1	Flair	
UFMF0410	6CJN10-040 x 1	Flair	
UFMF0420	6CJN13-040 x 1	Flair	
UFMF0520	6CJN13-050 x 1	Flair	
UFMF0525	6IJN15-050 x 1	Flair	
UFMF0725	6IJN15-070 x 1	Flair	
UFMF0730	6IJN25-070 x 1	Flair	
UFMF1030	6IJN25-100 x 1	Flair	
UFMF1530	6IGN25-150 x 1	Flair	
UFMF2030	6IGN25-200 x 1	Flair	
UFMF3030	6IGN25-300 x 1	Flair	
UFMF3050	6QGN43-300 x 1	Flair	
UFPE0205	12GJN08-024 x 1	Flair	
UFPE0305	12GJN08-030 x 1	Flair	
UFPE0310	3PJN10-030 x 1	Flair	
UFPE0410	3PJN10-040 x 1	Flair	
UFPE0420	3PJN13-040 x 1	Flair	
UFPE0520	3PJN13-050 x 1	Flair	
UFPE0525	3PJN15-050 x 1	Flair	
UFPE0725	3PJN15-070 x 1	Flair	
UFPE0730	3PJN25-070 x 1	Flair	
UFPE1030	3PJN25-100 x 1	Flair	
UFPE1530	3PGN25-150 x 1	Flair	
UFPE2030	3PGN25-200 x 1	Flair	
UFPE3030	3PGN25-300 x 1	Flair	
UFPE3050	3PGN43-300 x 1	Flair	
UFSMF0205	4HJN08-024 x 1	Flair	
UFSMF0305	4HJN08-030 x 1	Flair	
UFSMF0310	4CJN10-030 x1	Flair	
UFSMF0410	4CJN10-040 x 1	Flair	
UFSMF0420	4CJN13-040 x 1	Flair	
UFSMF0520	4CJN13-050 x 1	Flair	
UFSMF0525	4IJN15-050 x 1	Flair	
UFSMF0725	4IJN15-070 x 1	Flair	
UFSMF0730	4IJN25-070 x 1	Flair	
UFSMF1030	4IJN25-100 x 1	Flair	
UFSMF1530	4IGN25-150 x 1	Flair	
UFSMF2030	4IGN25-200 x 1	Flair	
UFSMF3030	4IGN25-300 x 1	Flair	
UFSMF3050	4QGN43-300 x 1	Flair	
VCE15	6CC15-150 x 2	Flair	
VCE22	6ICC25-220 x 1	Flair	
VCE8100	6CC15-080 x 2	Flair	
VCE860	6CC15-060 x 2	Flair	
VCXE15	2CC15-150 x 2	Flair	
VCXE22	2ICC25-220 x 1	Flair	
VCXE8100	2CC15-080 x 2	Flair	
VCXE860	2CC15-060 x 2	Flair	
VE111250B	8ICC25-240 x 1	Flair	

Competitor Part Number	Finite® Part Number	Competitor	Kit Required
VE11125RB	8DC25-240 x 1	Flair	
VE111265B	8ICC25-300 x 1	Flair	
VE111265RB	8DC25-300 x 1	Flair	
VKE15	3PC15-150 x 2	Flair	
VKE15HT	10DC15-150 x 2	Flair	
VKE22	3PCC25-220 x 1	Flair	
VKE22HT	10DC25-220 x 1	Flair	
VKE6100	3PC15-080 x 2	Flair	
VKE660	3PC15-060 x 2	Flair	
V-PE 10/3	3PJ25-100 x 1	Ultrafilter	
V-PE 15/3	3PG25-150 x 1	Ultrafilter	
V-PE 20/3	3PG25-200 x 1	Ultrafilter	
V-PE 3/1	3PJ10-030 x 1	Ultrafilter	
V-PE 3/1,5	3PJ13-030 x 1	Ultrafilter	
V-PE 30/3	3PG25-300 x 1	Ultrafilter	
V-PE 30/5	3PG43-300 x 1	Ultrafilter	
V-PE 4/1,5	3PJ13-044 x 1	Ultrafilter	
V-PE 4/2,5	3PJ15-040 x 1	Ultrafilter	
V-PE 5/2,5	3PJN15-050 x 1	Ultrafilter	
V-PE 5/3	3PJ25-050 x 1	Ultrafilter	
Z1050A	AZ12-023 x 1	Flair	
Z1050V	3PZ12-023 x 1	Flair	
Z1050X	6CZ12-023 x 1	Flair	
Z1050Y	8CZ12-023 x 1	Flair	
Z1050Z	10CZ12-023 x 1	Flair	
Z1070A	AZ12-029 x 1	Flair	
Z1070V	3PZ12-029 x 1	Flair	
Z1070X	6CZ12-029 x 1	Flair	
Z1070Y	8CZ12-029 x 1	Flair	
Z1070Z	10CZ12-029 x 1	Flair	
Z1140A	AZ12-056 x 1	Flair	
Z1140V	3PZ12-056 x 1	Flair	
Z1140X	6CZ12-056 x 1	Flair	
Z1140Y	8CZ12-056 x 1	Flair	
Z1140Z	10CZ12-056 x 1	Flair	
Z2010A	AZ20-046 x 1	Flair	
Z2010V	3PZ20-046 x 1	Flair	
Z2010X	6CZ20-046 x 1	Flair	
Z2010Y	8CZ20-046 x 1	Flair	
Z2010Y	8CZ20-046 x 1	Flair	
Z2010Z	10CZ20-046 x 1	Flair	
Z2010Z	10CZ20-046 x 1	Flair	
Z2020A	AZ20-086 x 1	Flair	
Z2020A	AZ20-086 x 1	Flair	
Z2020V	3PZ20-086 x 1	Flair	
Z2020V	3PZ20-086 x 1	Flair	
Z2020X	6CZ20-086 x 1	Flair	
Z2020Y	8CZ20-086 x 1	Flair	
Z2020Z	10CZ20-086 x 1	Flair	
Z2030A	AZ20-126 x 1	Flair	
Z2030V	3PZ20-126 x 1	Flair	
Z2030X	6CZ20-126 x 1	Flair	
Z2030Y	8CZ20-126 x 1	Flair	
Z2030Z	10CZ20-126 x 1	Flair	
Z2050A	AZ20-200 x 1	Flair	
Z2050V	3PZ20-200 x 1	Flair	
Z2050X	6CZ20-200 x 1	Flair	
Z2050Y	8CZ20-200 x 1	Flair	
Z2050Z	10CZ20-200 x 1	Flair	
Z3050A	AZ27-200 x 1	Flair	
Z3050V	3PZ27-200 x 1	Flair	
Z3050X	6CZ27-200 x 1	Flair	
Z3050Y	8CZ27-200 x 1	Flair	
Z3050Z	10CZ27-200 x 1	Flair	
Z3075A	AZ27-298 x 1	Flair	
Z3075V	3PZ27-298 x 1	Flair	
Z3075X	6CZ27-298 x 1	Flair	
Z3075Y	8CZ27-298 x 1	Flair	
Z3075Z	10CZ27-298 x 1	Flair	
Z5075A	AZ50-298 x 1	Flair	
Z5075V	3PZ50-298 x 1	Flair	
Z5075X	6CZ50-298 x 1	Flair	
Z5075Y	8CZ50-298 x 1	Flair	
Z5075Z	10CZ50-298 x 1	Flair	

Notes:

finitefilter@parker.com

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Z-Series Zero Air Loss Condensate Drain

Finite® Z-Series electronic condensate drains are designed for economical removal of unwanted water, oil emulsions and other liquids.

How it works:

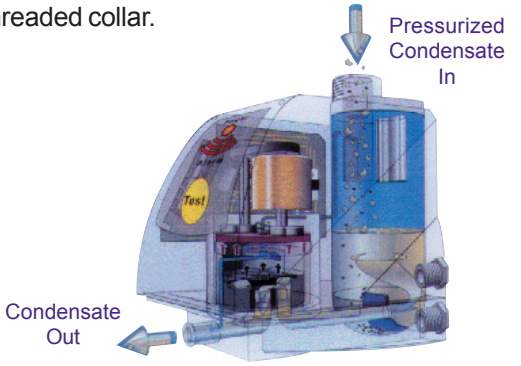
The Finite® Z-Series Zero Loss Drain operates with most common supply voltages: 24 to 230V_{dc}, and 80 to 230 V_{ac}, automatically adjusting to the input voltage. As condensate collects in the internal sump, a diaphragm is held closed by the system pressure. When the liquid level sensor detects an accumulation of condensate, an electromagnet is activated, relieving the system pressure above the diaphragm, allowing condensate to escape. As the condensate level decreases, system pressure is re-introduced above the diaphragm, closing off the flow of waste liquid before compressed air can escape.

The electronic sensor is insensitive to pollution, providing long term reliability.

RESULT: Zero loss of expensive compressed air, which results in lower overall operating cost!

Installation

Installation is simple and quick: a ½" NPT pipe adapter (supplied) is threaded into a filter housing drain port, a drip leg, or other pipe connection, and the ZLD drains can then be fitted into the system with the simple twist of a threaded collar.



Capacity Range

The ZLD condensate drains are suitable for use on compressed air systems. Rated flow for filters is 3600 SCFM/6116 NM^3/H for the ZLD-10 and 7200 SCMF/12240 NM^3/H for the ZLD-20.

Zero Loss Drain Features

- *Automatically adjusts to all common power sources 24V to 230V*
- *Conserves compressed air energy, zero compressed air is expelled with the oil/water condensate*
- *Comes with adapters for NPT threading which enables easy installation at no additional cost*
- *Condensate entry from top or bottom of drain simplifies difficult installations*
- *Test button for manual discharge*
- *Internal electronics continuously monitor operation, and alarm light on front panel indicates faults*
- *Adapter vent for remote mounting and pressure balancing is available separately*

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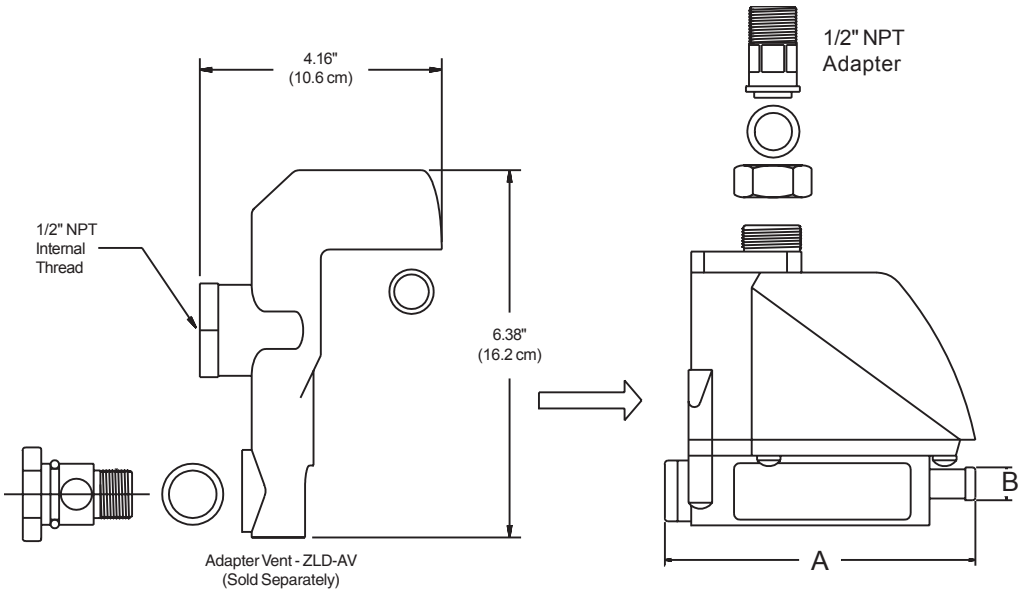
Drawings, Dimensions & Specifications



Dimension Chart
in Inches (cm)

	ZLD-10	ZLD-20
A	5.7" (14.5)	6.9" (17.5)
B	.57"(1.4)	.57" (1.4)
C	3.5"(8.9)	3.5" (8.9)
D	5.2" (13.2)	5.8" (14.7)

Specifications	ZLD-10	ZLD-20
Maximum Compressor Performance	360 SCFM (612 NM^3/H)	720 SCFM (1224 NM^3/H)
Maximum Refrigerated Dryer Performance	720 scfm (1224 NM^3/H)	1440 SCMM (2448 NM^3/H)
Maximum Filter Capacity	3600 SCFM (6120 NM^3/H)	7200 SCFM (12240 NM^3/H)
Pressure Range	12-250 PSI (0.8 - 17 bar)	Same as ZLD-10
Power Supply	24-230 V_{DC}, self regulating 80-230 V_{AC}, self regulating	Same as ZLD-10
Power Consumption	5 VA	Same as ZLD-10
Potential-Free Alert Contact	Max. 300 V AC/DC, Max. 0,1 A (electric relais)	Same as ZLD-10
Temperature Range	35°F to 140°F (2°C to 60°C)	Same as ZLD-10
Protection	NEMA 4x or IP 65	IP65
Weight (Empty)	2.2 lbs. (1 kg.)	2.6 lbs. (1.2 kg.)

Materials	ZLD-10 & ZLD-20
Wetted Plastic Parts	High impact glass filled engineered plastic
Body	Coated Aluminum
Seals	Viton®

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Oxford, MI

Air Line Filtration Accessories

Bulletin 1300 - 150/USA

Finite®

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Air Line Filtration Accessories

A comprehensive guide to products that compliment your filtration requirements

AD-12 Automatic Drain Valve (Internal)
Temp: 175ºF (79ºC)
Pressure: 250 PSIG (17 bar)
1/8" NPT Drain Connection

DPI-25 Differential Pressure Gauge
Temp: 200ºF (88ºC)
Pressure: 5000 PSIG (340 bar)
1/4" NPT Connections

DPI-13 Differential Pressure Indicator
Temp: 175ºF (79ºC)
Pressure: 250 PSIG (17 bar)
1/8" NPT Connections

KBDPI-25 Differential Pressure Gauge
Temp: 200ºF (88ºC)
Pressure: 250 PSIG (17 bar)
(Kit includes 1/8" and 1/4" NPT brass fittings, flexible nylon tubing and mounting bracket)

DPG-15 Differential Pressure Gauge
Temp: 175ºF (79ºC)
Pressure: 500 PSIG (34 bar)
(Fits on pre-drilled H-Series housings only)

MS-50 Metal Sump Drain (External)
Temp: 175ºF (79ºC)
Pressure: 250 PSIG (17 bar)
1/8" NPT Drain Connection
1/2" NPT Inet Connection

KBDPG-15 Differential Pressure Gauge Kit
Temp: 200ºF (93ºC)
Pressure: 250 PSIG (17 bar)
(Kit includes 1/8" and 1/4" NPT brass fittings, flexible nylon tubing and mounting bracket)

ADT-50 Float Actuated Drain Trap
Temp: 450ºF (232ºC)
Pressure: 150 PSIG (10 bar)
1/2" NPT Inlet Connection
1/4" NPT Drain Connection

P781641, P781642 Pressure Gauges
Temp: 125ºF (52ºC)
Pressure: 0-60 PSIG (0-4 bar), 0-160 PSIG (0-11 bar)

TV-50 and TV-25

TV-50 Timed Drain Valve
Temp: 210ºF (99ºC)
Pressure: 300 PSIG (20 bar)
w/700 PSIG (48 bar) available

TV-25 Timed Drain Valve
Temp: 210ºF (99ºC)
Pressure: 300 PSIG (20 bar)

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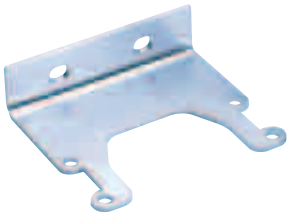
VS-50 Visual Sump Drain
Temp: 125°F (52°C)
Pressure: 150 PSIG (10 bar)

MBS-1 Stainless Steel Mounting Bracket

TD-50 Adjustable Timed Drain Valve
Temp: 150ºF (66ºC)
Pressure: 600 PSIG (42 bar)
1/2" NPT Inlet and
Outlet Connections



BK-1, BK-3 Mounting Brackets

ZLD-10 Zero Loss Drain
Temp: 35°-140°F (2°-60°C)
Pressure: 12-250 PSIG
(0-17 bar)

ADS-50 Stainless Steel (304) Automatic Drain Trap
Temp: 450ºF (232ºC)
Pressure: 250 PSIG (17 bar)
1/2" NPT Inlet and Outlet
Connections

KV-2A, KV-5A, KV-6A Element Frame Kits
(Internally mounted in
all ASME housings)

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Where Used Chart

Use the chart below to find out what accessory can be used on what Finite® product. If you have any questions regarding accessories, please call our technical assistance department at 1-800-521-4357.

Accessory Part Number	To be used on/with . . .
AD-12	All H-Series Housings
DPI-13	For Remote Mounting
DPG-15	All H-Series Housings (Pre-drilled for DPI/DPG Option)
KBDPG-15	For Wall Mounting or on ASME Housings
DPI-25	For Remote Mounting
KBDPI-25	For Wall Mounting or on ASME Housings
MS-50	H-Series
ADT-50	Larger H-Series and ASME Housings
TV-25/TV-50	H-Series and ASME Housings
TD-50	ASME Housings
ADS-50	H-Series and ASME Housings; S3C/S4C SS Housings
KV-2A	Finite® Elements **51-280
KV-5A	Finite® Elements **85-250
KV-6A	Finite® Elements **85-360
P781641	Any Air Line Application 0-60 PSI/Finite FRL's & F12E Series
P781642	Any Air Line Application 0-160 PSI/Finite FRL's & F12E Series
MBS-1	S1R and S5R Stainless Steel Housings
BK-1	H-Series Housings up to 1/2" NPT
BK-3	H-Series Housings 3/4" and 1" NPT
VS-50	H-Series
ZLD-10	H-Series and ASME Housings

Atmospheric Contaminants

Technical Data from Finite®

The benefits of purifying air are becoming obvious to every industry handling air. While some industries are faced with the problem of purifying air exhausted to the workplace or atmosphere, others are trying to cleanse compressed air prior to use. To one degree or another, both intake and exhaust applications face the same basic contaminants; particulates, moisture, aerosols and vapor (odors).

Typical airborne contamination must be understood to define the proper purification approach and to realize the limitations of each purification technique.

Typical Industrial Atmosphere Contaminants

Particulates	Quantity
.01 um to .1 um	10^9 particles/ft.^{3}
.1 um to .5 um	7.6 x 10^5 particles/ft.^{3}
.5 um to 1.0 um	6.8 x 10^4 particles/ft.^{3}
1.0 um to 5.0 um	7.1 x 10^3 particles/ft.^{3}
5.0 um to 10.0 um	400 particles/ft.^{3}
10.0 um and larger	settle out

Dew Point	Max. amount of water (held by the air)	
	PPM (Weight)	Ounces/1000ft.^{3}
150° F	200,000	200
120° F	80,000	80
100° F	42,000	43
80° F	22,000	24
60° F	12,000	13
40° F	5,100	6
32° F	3,200	4
-25° F	200	.3

Hydrocarbon Aerosols
1 to 10 ppm (Weight)

Hydrocarbon Vapor (Odor)
0.02 ppm (weight) at 68° F
2 ppm (weight) at 100° F

A study of these atmospheric contaminants shows that standard intake filters (40 micron nominal) or in-line filters (5 micron nominal) have little effect on contaminant level. Further study shows that the existing levels of hydro-carbon aerosols in atmospheric air combined with condensable moisture nuclei create a massive problem even in non-lubricated compressor systems. Oil-lubricated compressors can raise the oil/water aerosol level to 50 ppm.

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Air Purification Techniques

	Atmosphere (Typical Ind.)	Compressor (Lubricated)	Dryer (35° dew pt.)	Adequate Pre-Filter	High Efficiency Coalescer	Charcoal Vapor Adsorber
Typical No. of Particles/ft.^{3}	10^8- 10^{12}	10^{10}-10^{15}	10^{10}-10^{15}	10^6-10^{10}	10^4	10^4
Moisture (Vapor & Free Water - ppm)	20,000	20,000	4,000	4,000	4,000	4,000
Hydrocarbon (Aerosols - ppm)	1-10	2-15	2-15	1	.01	N/A
Hydrocarbon (Vapors - ppmc)	.02-2	.1-15	.01-15	.01-15	.01-15	.001-.2

A typical purification diagram shows the type of equipment needed and sequence required to systematically remove the various contaminants. Each technique must be applied in sequence to achieve instrument quality air at the lowest possible operating cost.

Useful Conversion Factors

Oil Carryover Factors

1 ppm (weight) = 1.2 oz./million ft.^{3} = .0000012 g/l
= .000034 g/ft.^{3} = 1.2 mg/m^3

10 ppm	=	1 oz./83,300 ft.^{3}
25 ppm	=	1 oz./33,300 ft.^{3}
50 ppm	=	1 oz./16,700 ft.^{3}
100 ppm	=	1 oz./8,300 ft.^{3}

A 100 cfm oil flooded compressed air system will pass about 2 oz. of oil in 8 hours with 35 ppm carryover.

Other Factors

Density of dry air at 68° F, 1 ATM = 1.2 g/l
Density of moist air at 86° F = 1.506 g/l (1 atmos)
1 liter = .05316 ft.^{3} = 33.8147 U.S. fluid oz.
= 61.025 in.^{3} = 0.01 m^3 = 1000 cm^3
1 ft.^{3} = 28.316 l. = 2.83 x 104 cm^3
1 m^3 = 35.315 ft.^{3}
Average oil density = .925 g/cm^3
1 oz. (fluid) of oil = 27.36 g

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Application Requirements

Date_____

Company Name_____ Contact Person_____

Address_____

City_____ State_____ Zip_____

Phone_____ Fax_____

Describe Application_____

_____

Medium (Air, CO_2, Methane, Etc.):_____

Operating Pressure (PSIG) _____

Operating Temperature (°F) _____

Flow Requirement (SCFM) _____

Connections (NPT/Flange) _____

Maximum Pressure (PSIG) _____

Maximum Temperature (°F) _____

Type of Oil_____

Other System Components:

Compressor: Recipricating Screw Centrifugal H.P.

Aftercooler _____

Centrifugal Separator_____

Receiver_____

Dryer_____

Other_____

Performance Efficiency:

_____ Coalescer (Aerosol Removal)
Aerosol Retention (micron)_____

_____ Particulate (particle interception)
Solid Retention (micron)_____

_____ Carbon Adsorbtion (vapor removal)

Materials of Construction_____

_____

_____

Corrosion Allowance_____

Accessories:

_____ Auto Drain
_____ Drain Valve
_____ Timer
_____ Visible Sump
_____ Differential Pressure Indicator (DPI)
_____ Mounting Bracket
_____ Flange Adapter (ASME)
_____ Element Frame Kit (ASME)

Potential Sales Volume ($Annually)_____

Known Competition_____

Notes_____

Signature_____

Parker Hannifin Corporation
Filtration and Separation Division
Oxford, MI

Offer of Sale

The items described in this document are hereby offered for sale at prices to be established by Parker Hannifin Corporation, its subsidiaries and its authorized distributors. This offer and its acceptance by any customer ("Buyer") shall be governed by all of the following Terms and Conditions. Buyer's order for any item described in its document, when communicated to Parker Hannifin Corporation, its subsidiary or an authorized distributor ("Seller") verbally or in writing, shall constitute acceptance of this offer.

1. Terms and Conditions of Sale: All descriptions, quotations, proposals, offers, acknowledgments, acceptances and sales of Seller's products are subject to and shall be governed exclusively by the terms and conditions stated herein. Buyer's acceptance of any offer to sell is limited to these terms and conditions. Any terms or conditions in addition to, or inconsistent with those stated herein, proposed by Buyer in any acceptance or an offer by Seller, are hereby objected to. No such additional, different or inconsistent terms and conditions shall become part of the contract between Buyer and Seller unless expressly accepted in writing by Seller. Seller's acceptance of any offer to purchase by Buyer is expressly conditional upon Buyer's assent to all the terms and conditions stated herein, including any terms in addition to, or inconsistent with those contained in Buyer's offer. Acceptance of Seller's products shall in all events constitute such assent.

2. Payment: Payment shall be made by Buyer within 30 days from the date of shipment. Amounts not timely paid shall bear interest at the maximum rate permitted by law for each month or portion thereof that the Buyer is late making payment. Any claims by Buyer for omissions or shortages in a shipment shall be waived unless Seller receives notice thereof within 30 days after Buyer's receipt of the shipment.

3. Delivery: Unless otherwise provided on the face hereof, delivery shall be made F.O.B. Seller's plant. Regardless of the method of delivery, however, risk of loss shall pass to Buyer upon Seller's delivery to a carrier. Any delivery dates shown are approximate only and Seller shall have no liability for any delays in delivery.

4. Warranty: Seller warrants that the items sold hereunder shall be free from defects in material or workmanship for a period of 18 months from date of shipment to Buyer. THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO ITEMS PROVIDED HEREUNDER. SELLER MAKES NO OTHER WARRANTY, GUARANTEE, OR REPRESENTATION OF ANY KIND WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR PURPOSE, WHETHER EXPRESS, IMPLIED, OR ARISING BY OPERATION OF LAW, TRADE USAGE, OR COURSE OF DEALING ARE HEREBY DISCLAIMED.

NOTWITHSTANDING THE FOREGOING, THERE ARE NO WARRANTIES WHATSOEVER ON ITEMS BUILT OR ACQUIRED WHOLLY OR PARTIALLY, TO BUYER'S DESIGNS OR SPECIFICATIONS.

5. Limitation of Remedy: SELLER'S LIABILITY ARISING FROM OR IN ANY WAY CONNECTED WITH THE ITEMS SOLD OR THIS CONTRACT SHALL BE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF ITEMS SOLD OR REFUND OF THE PURCHASE PRICE PAID BY BUYER, AT SELLER'S SOLE OPTION. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND OR NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS ARISING FROM OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR ITEMS SOLD HEREUNDER, WHETHER ALLEGED TO ARISE FROM BREACH OF CONTRACT, EXPRESS OR IMPLIED WARRANTY, OR IN TORT, INCLUDING WITHOUT LIMITATION, NEGLIGENCE, FAILURE TO WARN OR STRICT LIABILITY.

6. Changes, Reschedules and Cancellations: Buyer may request to modify the designs or specifications for the items sold hereunder as well as the quantities and delivery dates thereof, or may request to cancel all or part of this order, however, no such requested modification or cancellation shall become part of the contract between Buyer and Seller unless accepted by Seller in a written amendment to this agreement. Acceptance of any such requested modification or cancellation shall be at Seller's discretion, and shall be upon such terms and conditions as Seller may require.

7. Special Tooling: A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

8. Buyer's Property: Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. Taxes: Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller or if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.

10. Indemnity For Infringement of Intellectual Property Rights: Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Part 10. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets (hereinafter 'Intellectual Property Rights'). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that an item sold pursuant to this contract infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using said item, replace or modify said item so as to make it noninfringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any item sold hereunder. The foregoing provisions of this Part 10 shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

If a claim is based on information provided by Buyer or if the design for an item delivered hereunder is specified in whole or in part by Buyer, Buyer shall defend and indemnify Seller for all costs, expenses or judgments resulting from any claim that such item infringes any patent, trademark, copyright, trade dress, trade secret or any similar right.

11. Force Majeure: Seller does not assume the risk of and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter 'Events of Force Majeure'). Events of Force Majeure shall include without limitation, accidents, acts of God, strikes or labor disputes, acts, laws, rules or regulations of any government or government agency, fires, floods, delays or failures in delivery of carriers or suppliers, shortages of materials and any other cause beyond Seller's Control.

12. Entire Agreement/Governing Law: The terms and conditions set forth herein, together with any amendments, modifications and any different terms or conditions expressly accepted by Seller in writing, shall constitute the entire Agreement concerning the items sold, and there are no oral or other representations or agreements which pertain thereto. This Agreement shall be governed in all respects by the law of the State of Ohio. No actions arising out of the sale of the items sold hereunder or this Agreement may be brought by either party more than two (2) years after the cause of action accrues.

Parker Hannifin Corporation

About Parker Hannifin Corporation

Parker Hannifin is a leading global motion-control company dedicated to delivering premier customer service. A Fortune 200 Corporation, we are listed on the New York Stock Exchange with PH as our symbol. Our components and systems comprise over 1,000 product lines that control motion in a wide spectrum of essential uses in some 1,200 industrial and aerospace markets. Our Company has the largest distribution network in it's field, with over 6,000 distributors serving more than 300,000 customers worldwide.

Parker's Charter

To be a leading worldwide manufacturer of components and systems for the builders and users of durable goods. We will achieve profitable growth through premier customer service.

Aerospace Group is a leader in the developement, design, manufacture and servicing of hydraulic and fuel control systems and components for aerospace and related high technology markets

Automation Group designs, produces, and markets the full spectrum of components and systems to provide force, motion & control for industrial, mobile, marine and energy related machinery and equiment.

Climate and Industrial Control Group is a leading supplier of flow control and fluid handling components, gerotors, and of systems support to worldwide refrigeration, air conditioning and automotive customers.

Filtration Group is a leading worldwide manufacturer and marketer of quality filtration and clarification products.

Fluid Connectors Group designs, manufactures and markets hose, fittings, flexible connectors, instrumentation products and associated components used in fluid systems

Hydraulics Group is an industry leader in the design, production, and marketing of a full spectrum of quality hydraulic components and systems to provide force and motion and control for industrial, mobile, marine, and energy-related machinery and equipment.

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Reprinted February 2004