

High Pressure and Alternative Fuel Filtration



ENGINEERING YOUR SUCCESS.







High Pressure Filtration

High pressure compressors are used in a variety of applications. Many owners, operators and designers of high pressure compressed air or gas systems rely on Finite for high-quality air treatment filters.

End users of high pressure compressed air, such as scuba divers and fire rescue workers, depend on this high quality breathable air.

Throughout the stages of compression many contaminants can enter into the system. Excessive amounts of liquid aerosols and solid particulate contamination are common in high pressure systems. In addition, higher temperature levels are possible and may cause liquid oils to varnish. This contamination can lead to poor component performance and wear that may lead to unscheduled maintenance. Even submicronic contaminants in compressed air or gas systems can foul multistage compressors, increase maintenance costs or eventually make it into your final product.

Finite offers a variety of high pressure compressed air and gas filters. With our wide range of elements, we have a solution for every stage of compression, as well as at the point of use. Whether you are storing air or gas at a high pressure, or using a continuous flow, you can count on Finite to protect your equipment from contamination. Finite's proven high pressure filtration solutions will safeguard the toughest jobs.

Alternative Vehicles Need High Pressure Filtration

Compressed Natural Gas, or CNG, is a leading alternative to traditional fuel for the automotive industry. CNG is used in passenger vehicles, pickup trucks, in transit and on school buses. It can be less expensive than gasoline, and is more environmentally friendly – it reduces the amount of carbon monoxide, carbon dioxide and hydrocarbon vehicle exhaust emissions.

Natural gas is gathered from a pipeline and travels to a connecting compressor station. The gas is elevated to pressures ranging from 2000 PSIG up to 5000 PSIG and the resultant CNG is stored in large tanks. The CNG then makes its way to a gas dispenser where it is ready for use in natural gas vehicles.

Contaminants can enter into the gas at any stage of this processing. Filters are critical at each stage to ensure clean gas as a final product. Contamination that collects during handling, water that condenses in tanks and compressors that leak oil into the fuel stream are all problems that could shorten the life of expensive equipment, create unnecessary downtime and increase maintenance costs.

From pipeline to engine, Finite filters provide the critical filtration required for most alternative fuel systems. See page 78 for more detailed information on this application.



Determine your application

Evaluate the requirements of your application. The sketches on the following pages depict popular examples of breathing air, PET bottle blowing and alternative fuel applications.

Choose your filtration media type

2

3

What type of filtration is needed? Coalescing filter media removes solid and liquid contaminants from gas streams. Particulate filter media removes solids from gas streams. Adsorber media removes hydrocarbon vapors from gas streams. See the following pages for more detailed information.

Choose your filtration grade and efficiency

Are you searching for a specific micron rating or efficiency rating? If so, page 79 provides a complete breakdown of Finite's filter media grades and their performance specifications.



Consider your operating conditions

What are the operating conditions of your application? Key criteria to consider: flow, pressure, temperature, materials of construction (stainless steel, nylon, aluminum, etc.). Samples throughout this section provide detailed descriptions of the various products available.



Use flow charts to determine filter size

s are provided for each high pressure filter series. Flows are listed at various operating pressures. Filters are available with flows up to 6500 SCFM and pressure ratings up to 6000 PSIG.

Applications





High Pressure Breathing Air

The filtration of compressed air is critical to ensure that it meets stringent air quality requirements for use in breathing air applications as set forth by North American agencies such as the Occupational Health and Safety Administration (OSHA) and Canadian Standards Association (CSA). Breathing air is used for scuba tanks, fire rescue equipment, and emergency respiratory gear. Any contaminants in the air stream may cause equipment damage and malfunction, requiring costly repairs and replacements, and ultimately creating a hazardous situation for any users of high pressure breathing air apparatus. The use of filters will protect the consumer's health and keep equipment safe and fully operational. At the source, a coalescing filter will remove any oil or other liquid contaminants that may be carried downstream. At the point of use, conventional compressed air must be free of impurities such as moisture, oil vapors and any harmful tastes and/or odors before it can safely be used as breathing air .

PET Blow Molding

PET, or polyethylene terepthalate, is a recyclable material used to make bottles by blow molding. Food and beverage containers are just a few of the many products that can be manufactured from this thermoplastic. In order to ensure that these products remain contaminant free throughout a process, they must be manufactured with clean, dry air. The proper combination of filters will prevent compressor oils, pipe scale and other damaging impurities from building up on equipment.



Onboard CNG Vehicles



Filtration is the key to guarding against damaging contaminants that could ruin a fuel system. Installing a coalescer upstream of the high pressure regulator extends the system's life and reduces maintenance costs. A low pressure filter can also be used downstream of the regulator to protect other fuel injection system components.

At the CNG Fueling Station

Installing a lower pressure particulate filter (H-Series Housing 3PU Media) before the compressor station will remove pipe scale to prevent compressor damage. Before the gas is transported from storage to the dispenser, prefiltration of the gas with two-stage coalescing will eliminate solids, oil and water generated during underground transit. For extra protection, a high efficiency coalescer should be placed at the gas dispenser to protect sensitive dispenser metering equipment and prevent oil from making its way into the vehicle.

Pipeline Natural Gas



Other Applications Include:

- General high pressure compressed air
- High pressure testing
- Offshore applications
- High pressure gas storage
- Corrosive gases
- Specialty gases
- Air-blast circuit breakers
- Leak testing of
 hydraulic equipment
- Shipboard air
 distribution systems

Parker Finite Filtration for CNG Compressor, Dispensing, and Dual Fuel Applications

Specifications

Model	Max. Pressure	Port Sizes NPT	Max. Temp.	Min. Temp.	Certifications	Threads	Material	Plating
H-Series	500 PSIG	1/4" - 3"	N/A	-20°F	CRN	NPT	Aluminum	Chromate
SN8S- Series	700 PSIG	2"	N/A	-20°F	N/A	NPT	316 SS	None
M-Series	800 PSIG	1/4" - 1", 2"	N/A	-20°F	N/A	NPT	Aluminum	Chromate
CJ-Series	2550 PSIG	1/4" - 2"	+350°F	-40°F	CRN	NPT or SAE	SR Iron	Electroless Nickel
J-Series	5000 PSIG	1/4" - 2"	+350°F	-40°F	N/A	NPT or SAE	SR Iron	Electroless Nickel
ZJ-Series	6000 PSIG	1", 1-1/2", 2"	+350°F	-40°F	CRN	SAE	Steel	Electroless Nickel

Media Types, Grades, and Efficiencies

Coalescing elements are specially 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.

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.

Adsorption elements are used to remove vapors (hydrocarbon or water) that are not removed by the coalescing filter. Hydrocarbon vapors collect in the element, while clean air exits the housing through the outlet port. In this element, the air or gas flows from the outside of the element to the inside.







Media Type C

Coalescing element composed of an epoxy saturated, borosilicate glass microfiber tube in intimate interlocking contact with a rigid retainer. Surrounded by a coarse fiber drain layer, retained by a synthetic fabric safety layer. Some models are available with molded elastomeric end seals (CU), or with metal end caps and fluorocarbon gaskets.

For use with: FFC-110 (800 PSIG), FFC-110L (800 PSIG), SN8S (500 PSIG), M-Series (800 PSIG), A5R/A1R (1000 PSIG), SM-Series (1200 PSIG), FFC-112 (3600 PSIG), FFC-112 SAE (3600 PSIG) FFC-113 (3600 PSIG), J-Series (5000 PSIG), S5R/S1R (5000 PSIG), FFC-116 (5000 PSIG), SJ-Series (6000 PSIG)



Media Type H

Coalescing element similar to type "C," however no rigid retainer is used. Typically used in applications with low or constant flow rates.



Media Type Q

Coalescing element with the same configuration as "C" tube, but with "3P" type pleated cellulose prefilter built-in. Includes molded elastomeric end seals (QU). Some models offer the option of metal end caps and fluorocarbon gaskets.



Media Type 7CVP

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

For use with: A5R/A1R (1000 PSIG), SM-Series (1200 PSIG), S5R/S1R (5000 PSIG) For use with: M-Series (800 PSIG), SM-Series (1200 PSIG) For use with: SN8S (500 PSIG), M-Series (800 PSIG)

Particulate Removal Element (removal of solids)



Media Type 3P

Pleated cellulose particulate removal element. Includes molded elastomeric end seals (3PU). Some models offer the option of metal end caps and fluorocarbon gaskets.

For use with: SN8S (500 PSIG), M-Series (800 PSIG), SM-Series (1200 PSIG), J-Series (5000 PSIG), SJ-Series (6000 PSIG)



Media Type G

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

For use with: A5R/A1R (1000 PSIG), SM-Series (1200 PSIG), S5R/S1R (5000 PSIG), S1IL (5000 PSIG)



Media Type F

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

For use with: A5R/A1R (1000 PSIG), SM-Series (1200 PSIG), S5R/S1R (5000 PSIG), S1IL (5000 PSIG)



Media Type T

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

For use with: A5R/A1R (1000 PSIG), SM-Series (1200 PSIG), S5R/S1R (5000 PSIG), S1IL (5000 PSIG)



(removal of bulk liquids)



Media Type 100WS

This all stainless steel element has two metal retainers with rolled mesh screen in between. This cleanable element combines liquid droplets and aerosols, separating the liquids from the gas stream in systems with high liquid loads.

For use with: SN8S (500 PSIG), M-Series (800 PSIG), J-Series (5000 PSIG), SJ-Series (6000 PSIG)



(removal of particulates)



Media Type LPG

High efficiency pleated element that is offered in either a 1-micron or 5-micron rating. The pleated element construction guarantees a long filter life and the pleated media is backed on both sides by a rugged epoxy coated steel screen for high strength during peak flow rate conditions.





Media Type A

Hydrocarbon vapor removal element. Ultrafine grained, highly concentrated, activated carbon sheet media. Includes molded elastomeric end seals (AU). Some models offer the option of metal end caps and fluorocarbon gaskets. Maximum hydrocarbon inlet concentration .5 to 2 PPM.

For use with: SN8S (500 PSIG), M-Series (800 PSIG), SM-Series (1200 PSIG), J-Series (5000 PSIG), SJ-Series (6000 PSIG)



Media Grades



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 below 500 PSIG.



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.)



Finite media grades determine the filtration efficiency. Capture efficiencies are available up to 99.995%. Micron ratings range from 0.01 to 3 micron. The columns on the right note both the wet and dry pressure drops.

Media		Coalescing	Max. Oil Carryover ¹	Micron Doting	Pressure Drop (PSID) @ Rated Flow ²	
	Grade Micron Particles		PPM w/w	Micron Rating	Media Dry	Media Wet⁵
	4	99.995%	0.003	0.01	1.25	3–4
	6	99.97%	0.008	0.01	1.0	2–3
	ME	99.95%	0.02	0.3	0.5	1.0
ىنىنىز ئىتىنىد	7	99.5%	0.09	0.5	0.25	0.5-0.7
	8	98.5%	0.2	0.5	0.5	1–1.5
	10	95%	0.85	1.0	0.5	0.5
٥	100WS	99+% ³	N/A	100	< 0.25	< 0.25
	3P	N/A	N/A	3.0	0.25	N/A
582	A	99+% ⁴	N/A	3.0	1.0	N/A

Parker Finite Media Specifications

¹Tested per ISO 12500-1 at 40 ppm inlet. ²Add dry + wet for total pressure drop. ³Bulk liquid removal efficiency. ⁴Oil vapor removal efficiency is given for A media. ⁵Media wet with 10-20 wt. oil.

H-Series Filters

High Efficiency Coalescing Filters



Parker Finite filters are used everyday in food grade applications.

Why Filter Compressed Air?

Product rejects and increased maintenance expenses can occur due to poor air quality.

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 temperatures, 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.

Why Use Finite Filters?

Element formation

Our special UNI-CAST formed elements provide lower pressure drop and less frequent change-outs, saving you time and money.

We meet your needs

Parker offers a variety of filter elements to meet your application requirements.

Technical support

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

Short lead times

Our LEAN manufacturing capability assures that you will have the right filter product at the right time. Popular products are shipped in three days.

Finite's H-Series Offers:

- Optional indicators, gauges and drains
- Temperatures to 450°F (232°C)
- Pressures to 500 PSIG (34 bar)
- Connection sizes from 1/4" to 3" NPT, BSPP & BSPT
- Flows from 10 to 1660 SCFM (17-2822 m³/hr)
- CRN approved in all Canadian Provinces



Sources of Contamination

Compressed air and gas lines typically contain water, oil and particulate contamination.

The contaminants of greatest concern in precision compressed air systems are water, oil and solids.

Water vapor is present in all compressed air and 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 is solid matter including dirt, 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.

H-Series Applications

Coalescing (Oil Removal) Air dryer pre-filter Paint spray booths Breathing air Tool protection Air valve protection Air cylinder protection Natural gas filtration Technical gas filtration Interceptor (Particulate Removal) Desiccant dryer after-filter Pre-filter for coalescer Systems with high concentrations of solid contaminant Particulate protection for non-lubricated systems Adsorber (Vapor Removal) Odor removal Breathing air Food packaging equipment High purity laboratory gases Hydrocarbon vapor removal



Determine your

application, media grade, media type and end seal material 2 hoose you

Choose your housing and replacement elements



Choose your accessories



Note: See pages 17-18 for application and system schematics

Step 1. Determine Your Application, Media Grade, Media Type and End Seal

Find your (or similar) application from the descriptions below, from the basic application circuits on the previous page, or consult one of our application engineers. 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 pages.

Coalescing Elements (removal of liquids and particulate)



Media Type C or I

Available in grades: 4, 6, 8, 10 **Air flow:** Inside to outside

This coalescing element is made with our special UNI-CAST construction. Composed of an epoxy saturated borosilicate glass micro-fiber media, this media is used in applications requiring the removal of liquid and particulate contamination. The outer synthetic fabric layer allows for swift removal of coalesced liquids.

Media type I is constructed similarly to the C media but also includes an inner retainer intended for additional strength where reverse flow is likely.



Media Type Q

Available in grades: 4, 6, 8, 10 Air flow: Inside to outside

This coalescing element is composed of an epoxy saturated, borosilicate glass micro-fiber media, and is also made with our special UNI-CAST construction. This media type has a builtin pleated cellulose pre-filter as the inner layer. As with the C and I media types, the outer synthetic fabric layer aids in the swift and efficient removal of coalesced liquids.



Media Type D

Available in grades: 4, 6, 8, 10 **Air flow:** Inside to outside

Media type D elements are composed of a micro-glass coalescer, utilize a special high temperature UNI-CAST formulation, but are surrounded by inner and outer diameter metal retainers. These metal retainers, coupled with a glass drain layer, make this an extremely robust element designed to remove both solid and liquid contaminants at elevated temperatures.



Media Type 7CVP, 7DVP, or ME

Available in: 11/4" NPT port size housings and larger Air flow: Inside to outside

Parker Finite's 7CVP media type consists of two filter layers between metal retainers. The outer layer removes aerosols while the inner layer traps solid particles, protecting and extending the life of the outer layer. 7CVP elements are used in bulk liquid coalescing applications or when relatively high efficiency and low pressure drop are required. A special 7DVP media is constructed the same way, however it allows for higher temperature applications.

Parker's ME media type are mist eliminator elements that are constructed similarly to the 7CVP, but offer even higher filtration efficiency for more critical compressed air quality demands.

Grade 4

Parker's media grade 4 is typically chosen when an extremely high coalescing efficiency is required. Its 99.995% rating is the best available and is ideal for use as a final filter in applications with elevated operating pressures (up to 500 PSIG), or when removing liquid contaminants from gases lighter than compressed air.

Grade 6 (Standard)

Grade 8

Choose a filter grade for media types C, I, Q, or D

Grade 6 filters 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 in a variety of industrial applications. Grade 6 is an excellent choice as a pre-filter for regenerative desiccant air dryers, as it prevents oil or varnish from coating the desiccant. Grade 8 filters combine high efficiency (98.5%) with high flow rate and long element life. A separate pre-filter is not required for "normal to light" particulate loading. A grade 8 element is often chosen as protection for refrigerated air dryers. This element allows the dryer to maintain efficiency by preventing the coating of copper coils with the build-up of oil or varnish.

Grade 10

Grade 10 filters are used as prefilters for grades 6 or 8 to remove gross amounts of liquid aerosols or tenacious aerosols. Grade 10 is often referred to as a coarse coalescer, or pre-coalescer. A grade 10 in a media type D filter element is recommended as an after-filter for heat regenerated desiccant type air dryers as its one micron rating is ideal for collecting air dryer desiccant fines before they pass downstream.





Media Type 100WS

Air Flow: Inside to outside

This rolled stainless steel mesh element has ID and OD metal retainers with rolled stainless steel mesh in between. It is an extremely robust design. With a nominal rating of 100 micron, this media is used for the reduction and elimination of excess liquids in gas streams. It also would be a good choice as a pre-filter for coalescing grades 6 and 10 when extreme volumes of liquid contaminants are present. Particulate Removal Element (removal of solids)



Media Type 3P

Air Flow: Outside to inside

Parker's 3P pleated cellulose element removes solid contaminants, with a 3 micron absolute rating. Because this element is designed to flow from its outside to the inside, it has a strong inner retainer that gives this element added strength. 3P particulate "Interceptor" elements are used where very high dirt loading is expected but a relatively fine pore structure is required. It is also used as a pre-filter to a coalescing filter in systems where a lot of solid contamination exists.





Media Type A

Air Flow: Outside to inside

This hydrocarbon vapor removal element consists of an ultra-fine grained, highly concentrated, activated carbon sheet media. Because these elements are designed to flow from the outside to their inside, they have a strong inner retainer giving this element added strength. This media type is used to remove hydrocarbon vapor and is often used to remove the smell or taste of compressor lube oil from breathing air. Maximum hydrocarbon inlet concentration .5 to 2 PPM.

Parker Finite Media Specifications

Media		Coalescing Efficiency 0.3 to 0.6	Max. Oil Carryover ¹	Micron Rating	Pressure Drop (PSID) @ Rated Flow ²		
	Grade	Micron Particles	PPM w/w		Media Dry	Media Wet⁵	
	4	99.995%	0.003	0.01	1.25	3–4	
	6	99.97%	0.008	0.01	1.0	2–3	
بنبنين	ME	99.95%	0.02	0.3	0.5	1.0	
	7	99.5%	0.09	0.5	0.25	0.5–0.7	
	8	98.5%	0.2	0.5	0.5	1–1.5	
	10	95%	0.85	1.0	0.5	0.5	
\bigcirc	100WS	99+% ³	N/A	100	< 0.25	< 0.25	
	3P	N/A	N/A	3.0	0.25	N/A	
582	А	99+% ⁴	N/A	3.0	1.0	N/A	

¹Tested per ISO 12500-1 at 40 ppm inlet. ²Add dry + wet for total pressure drop. ³Bulk liquid removal efficiency. ⁴Oil vapor removal efficiency is given for A media. ⁵Media wet with 10-20 wt. oil.

End Seals Available

End Seals	Available on Media Type	Max temp of Element with End seal	
No end seals — Element is self sealing. Standard on filters with 1/4" to 1" connection sizes.	С	175°F (79°C)	
U: Molded Urethane, Standard on all filters	С	175°F (79°C)	
with 1-1/4 to 3 connection sizes.	I	175°F (79°C)	
	Q	175°F (79°C)	
	3P	175°F (79°C)	
	100WS	175°F (79°C)	٥
	А	175°F (79°C)	582
S: Molded silicone rubber end seals used for high	С	175°F (79°C)	
temperature elements up to $450^{\circ}F$ (232°C).	Q	175°F (79°C)	مىيىد. بىنىيىد
	D	450°F (232°C)	~~~~
	3P	350°F (177°C)	===
V: Fluorocarbon gaskets bonded to metal end caps.	С	350°F (177°C)	
Note: V option is only available on 114" NPT and larger. Standard	D	450°F (232°C)	
on all 7CVP, 7DVP, and ME media.	ME	175°F (79°C)	
	7CVP	175°F (79°C)	
	7DVP	400°F (204°C)	
	100WS	450°F (232°C)	۵
	3P	350°F (177°C)	
	А	175°F (79°C)	582



Step 2. Determine Your Housing

Find your desired flow rate under the 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.

Note: The housing assembly part numbers below have a NPT connection. For BSPP, insert F in place of N. For BSPT, insert T in place of N.

Housing Selection Chart

Rated Flows: SCFM @ 100 PSIG (m³/hr @ 7 bar). For other pressures, please see Step 2a on following page.

Housing Assembly	Port Size	Grade 4 Coalescer	Grade 6 Coalescer (Standard)	Grade 7CVP Coalescer (or ME Media)	Grade 8 Coalescer	Grade 10 Coalescer	Grade 3PU Particulate Removal	Grade 100WS Water Separator	Grade A Adsorber
HN1S	1/4"	11 (19)	15 (26)	N/A	20 (34)	25 (43)	25 (43)	50 (85)	15 (26)
HN15S	3/8"	15 (26)	20 (34)	N/A	27 (46)	33 (56)	33 (56)	66 (112)	20 (34)
HN2S	1/2"	19 (32)	25 (43)	N/A	34 (58)	42 (71)	42 (71)	83 (141)	25 (43)
HN1L	1/4"	23 (39)	30 (51)	N/A	41 (68)	50 (85)	50 (85)	50 (85)	30 (51)
HN15L	3/8"	30 (51)	40 (68)	N/A	55 (94)	66 (112)	66 (112)	66 (112)	40 (68)
HN2L	1/2"	38 (65)	50 (85)	N/A	68 (116)	83 (141)	83 (141)	83 (141)	50 (85)
HN3S	3/4"	61 (104)	80 (136)	N/A	109 (185)	133 (226)	133 (226)	133 (226)	80 (136)
HN4S	1"	76 (129)	100 (170)	N/A	136 (231)	166 (282)	166 (282)	232 (394)	100 (170)
HN4L	1"	106 (180)	140 (238)	N/A	191 (325)	232 (394)	232 (394)	232 (394)	140 (238)
HN5S	11⁄4"	190 (323)	250 (425)	415 (706)	330 (461)	415 (706)	415 (706)	415 (706)	250 (425)
HN6S	11⁄2"	260 (442)	350 (595)	600 (1020)	465 (791)	600 (1020)	600 (1020)	600 (1020)	350 (595)
HN8E	2"	260 (442)	350 (595)	600 (1020)	465 (791)	600 (1020)	600 (1020)	600 (1020)	350 (595)
HN8S	2"	340 (578)	450 (765)	750 (1275)	600 (1020)	750 (1275)	750 (1275)	750 (1275)	450 (765)
HN8L	2"	470 (799)	625 (1063)	1035 (1760)	830 (1411)	1035 (1760)	1035 (1760)	1035 (1760)	625 (1063)
HN0L	21⁄2"	600 (1020)	800 (1360)	1330 (2261)	1060 (1802)	1330 (2261)	1330 (2261)	1330 (2261)	800 (1360)
HN12L	3"	750 (1275)	1000 (1700)	1660 (2822)	1330 (2261)	1660 (2822)	1660 (2822)	1660 (2822)	1000 (1700)

Replacement Element Part Numbers

*Insert selected media grade 4, 6, 8, 10.

Housing Assembly	Coalescer	Coalescer w/inner retainer	High Temperature	Coalescer w/built-in pre-filter	ME Mist Eliminator	7CVP Pleated Coalescer	3PU Particulate Removal	100WS Water Separator	AU Adsorber
HN1S	*C10-025	*IU10-025	*DS10-025	*QU10-025	N/A	N/A	3PU10-025	100WSU10-025	AU10-025
HN15S	*C10-025	*IU10-025	*DS10-025	*QU10-025	N/A	N/A	3PU10-025	100WSU10-025	AU10-025
HN2S	*C10-025	*IU10-025	*DS10-025	*QU10-025	N/A	N/A	3PU10-025	100WSU10-025	AU10-025
HN1L	*C10-050	*IU10-050	*DS10-050	*QU10-050	N/A	N/A	3PU10-050	100WSU10-025	AU10-050
HN15L	*C10-050	*IU10-050	*DS10-050	*QU10-050	N/A	N/A	3PU10-050	100WSU10-025	AU10-050
HN2L	*C10-050	*IU10-050	*DS10-050	*QU10-050	N/A	N/A	3PU10-050	100WSU10-025	AU10-050
HN3S	*C15-060	*IU15-060	*DS15-060	*QU15-060	N/A	N/A	3PU15-060	100WSU15-060	AU15-060
HN4S	*C15-060	*IU15-060	*DS15-060	*QU15-060	N/A	N/A	3PU15-060	100WSU15-060	AU15-060
HN4L	*C15-095	*IU15-095	*DS15-095	*QU15-095	N/A	N/A	3PU15-095	100WSU15-060	AU15-095
HN5S	*CU25-130	*CU25-130	*DS25-130	*QU25-130	ME25-130	7CVP25-130	3PU25-130	100WS25-130	AU25-130
HN6S	*CU25-130	*CU25-130	*DS25-130	*QU25-130	ME25-130	7CVP25-130	3PU25-130	100WS25-130	AU25-130
HN8E	*CU25-130	*CU25-130	*DS25-130	*QU25-130	ME25-130	7CVP25-130	3PU25-130	100WS25-130	AU25-130
HN8S	*CU25-187	*CU25-187	*DS25-187	*QU25-187	ME25-187	7CVP25-187	3PU25-187	100WS25-187	AU25-187
HN8L	*CU25-235	*CU25-235	*DS25-235	*QU25-235	ME25-235	7CVP25-235	3PU25-235	100WS25-235	AU25-235
HN0L	*CU35-280	*CU35-280	*DS35-280	*QU35-280	ME35-280	7CVP35-280	3PU35-280	100WS35-280	AU35-280
HN12L	*CU35-280	*CU35-280	*DS35-280	*QU35-280	ME35-280	7CVP35-280	3PU35-280	100WS35-280	AU35-280

Step 2a. Alternate Housing Selection Chart

Use this step for applications with technical gases or for applications that do not have standard conditions (100 PSIG and 70°F).

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 the previous page. When using the chart, choose the closest flow rate from the appropriate media grade column.



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 see chart to the left for specific gravities.

Refer to this chart if you do not know the specific gravity of the gas you are filtering.

Equation for Adjusted Flow Rate

Flow Rate	Pressure	Temperature	Specific Gravity	Adjusted Flow Rate
Actual System Flow Rate (SCFM)	$\frac{(\text{System Pressure (PSIG) + 14.7 PSIG})}{(100 \text{ PSIG + 14.7 PSIG})}$	X	x √ (See chart above) :	SCFM (@ 100 PSIG, and 70°F)

Example

Your compressed air application requires a Media Grade 6 Coalescer Filter. The actual flow rate is 136 SCFM, an actual pressure of 150 PSIG, and an actual temperature of 100°F.

Return to the Housing Selection Chart on the previous page. Using the given information and the result from the above equation, you will look for the "Grade 6C" column heading. In this column you will find that the correct housing assembly for a 100 SCFM flow rate would be the HN4S model.



Step 3. Accessories

Choose your accessories. Please consult Parker Finite when choosing pre-installed accessories for gases other than air.

Pre-installed Accessories

Accessory Designator	Accessory Type	Maximum Pressure	Maximum Temperature
А	Auto Drain	250 PSIG (17 bar)	175°F (79°C)
D	DPI Indicator	250 PSIG (17 bar)	175°F (79°C)
G	DPG Gauge	500 PSIG (34 bar)	175°F (79°C)
J	High Temp	250 PSIG (17 bar)	450°F (232°C)
Ν	No Accessories	500 PSIG (34 bar)	175°F (79°C)
Р	DP Ports (1/8" NPT gauge ports)	500 PSIG (34 bar)	175°F (79°C)
V	Fluorocarbon O-rings	500 PSIG (34 bar)	175°F (79°C)
W	Auto Drain and DPI Indicator	250 PSIG (17 bar)	175°F (79°C)
Х	Auto Drain and DP Ports	250 PSIG (17 bar)	175°F (79°C)
Y	Auto Drain and DPG Gauge	250 PSIG (17 bar)	175°F (79°C)

Replacement Accessories



DPG-15 Differential Pressure Gauge

Designator	Y	G	
Temperature	175°F (79°C)	175°F (79°C)	
Pressure	250 PSIG (17 Bar)	500 PSIG (17 Bar)	
Port Size	N/A	N/A	



DPI Indicator

Designator	D, W
Temperature	175°F (79°C)
Pressure	250 PSIG (17 Bar)
Port Size	N/A



AD-12 Auto Drain Valve

Designator	A, W, X, Y
Temperature	175°F (79°C)
Pressure	250 PSIG (34 Bar)
Port Size	N/A

Note: Auto drains require a minimum operating pressure of 10 PSIG to seal.

Other Compatible Drain Accessories

			Ţ	
	TV-50 Timed Drain Valve	ZLD-013 Zero Loss Drain	VS-50 Visual Sump Drain (not shown: standard bowl guard)	MS-50 Metal Sump Drain (External)
Temperature	210°F (99°C)	140°F (60°C)	125°F (52°C)	175°F (79°C)
Pressure	300 PSIG (20 Bar)	232 PSIG (16 Bar)	150 PSIG (10 Bar)	250 PSIG (17 Bar)
Port Size	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT

Note: The accessories above are compatible with this product line, however, they are sold separately. Other timed drain valves can be found in the Air Line Filtration Accessories section.

Step 4. How to Order

Use the steps below to build your own part number.

For any permutation not mentioned below, please consult factory.

Step 2 or 2a			Step 1		Step 3			
HN	12	L	6	С		U	G	
Series Port Name Type	Port (Connection) Size	Bowl	Element Grade	Element Type		End Seal	Accessory Designator for pre-installed accessories	
H F - BSPP N - NPT	1 - 1/4" $15 - 3/8"$ $2 - 1/2"$ $3 - 3/4"$ $4 - 1"$ $5 - 11/4"$ $6 - 11/2"$ $8 - 2"$ $0 - 21/2"$ $12 - 3"$ $8 - SAE-32$	S - Standard L - Long E - Economy (short bowl)* *Economy bowl is only available on 2" connec- tion size. Note: Bowl length is determined by the flow rate required. Housing Selection	4 6 8 10 Note: Grades are avail- able on element type C, Q, and D. For 7CVP, 7DVP, ME, 3P, 100WS and A, leave this blank.	C	Blank = U = S = V =	No end seal, Standard on 1/4" to 1" connection sizes Urethane, Standard on 11⁄4" to 3" connection sizes Molded Silicone Rubber Fluorocarbon gasket with metal end caps, Available 11⁄4" to 3" connections only	 A - Auto Drain D - DPI Indicator G - DPG Gauge J - High Temperature (up to 450°F) N - No Accessories P - 1/8" Differential (3/4" & up) Sensing Ports V - Fluorocarbon O-rings W - A + D X - A + P (3/4" & up) Y - A + G Note: For maximum pressures and temperatures related to Accessories, please see chart on previous page. 	
		flow rates.		Q	0 = S =	Molded Silicone Ru	bber	
				D	S = V =	Molded Silicone Ru nection sizes Fluorocarbon gaske Available in 11/4" to 3	bber, Standard on all con- et with metal end caps, " connection sizes only	
				7CVP 7DVP ME	Blank =	Fluorocarbon gaske Standard on all 7CV elements available in	t with metal end caps, P, 7DVP, and ME elements; n 1¼" to 3" connections only	
				3P	U = S = V =	Urethane, Standard Molded Silicone Ru Fluorocarbon gaske Available 1¼" to 3" d	all connection sizes bber et with metal end caps, connections only	
				100WS	U = Blank =	Urethane, Standard Fluorocarbon gaske Standard on 100WS nections only	on 1/4" to 1" connection sizes et with metal end caps, 8 elements 1¼" to 3" con-	
				A	U = V =	Urethane, Standard Molded Silicone Ru	on all connection sizes bber	



Examples on How to Order:

HN12L-6CUY 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.

H-Series Drawings, Dimensions & Specifications

1/4" to 1" Port Size Housing Specifications

Max. Pressure	500 psig (34 bar)
Safety Factor	Maximum operating to burst 4:1
Max. Temp.	175°F (79°C) with option to 450°F (232°C)
Seals	Nitrile Standard/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" NPT when tee valve is removed from drain bushing.

Model	А	В	С	D	E	F	G	H*	Sump (ml)	Weight
H_1S	6.80 (172)	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	6.80 (172)	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	6.80 (172)	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	9.19 (233)	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	9.19 (233)	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	9.19 (233)	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.

2 HN15L-8CA 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.

HN8E-10DVJ 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.

HN8S-7CVPG What am I ordering?

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

HN2S-AUN

 \mathbf{C}

What am I ordering?

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

11/4" to 3" Port Size Housing Specifications

Max. Pressure	500 psig (34 bar)
Safety Factor	Maximum operating to burst 4:1
Max. Temp.	175°F (79°C) with option to 450°F (232°C)
Seals	Nitrile Standard/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" NPT when tee valve is removed from drain bushing.

Model	А	В	С	D	E	F	G	H*	Sump (ml)	Weight
H_5S	18.23 (463)	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	18.23 (463)	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	18.23 (463)	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 (617)	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	35.70 (907)	8.0 (203)	2.4 (61)	.83 (21)	7.24 (184)	2.36 (60)	2.6 (66)	28.50 (724)	880	35.00 (15.87)
H_12L	35.70 (907)	8.0 (203)	2.4 (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.

SN8S High Flow Filter (Stainless Steel)

500 PSIG Pressure Filters

Parker Finite's 500 PSIG SN8S filter is the best solution for most critical or corrosive compressed air/gas applications. Its 2" NPT stainless steel housing is a perfect fit for food processing, bottling plants and pharmaceutical manufacturing, where stainless steel system components are required. Bulk liquid from gas separation, oil coalescing, particulate removal and vapor adsorber filter elements are available. The housing has a plugged 1/4" NPT drain connection. The optional ADS-50 (see "Accessories" section of this catalog) stainless steel auto drain can be easily connected with standard pipe fittings. Bottling plants use stainless steel system components for their critical processes. In applications where stainless steel is required, use the SN8S to remove contaminants from your compressed air or gas system.

Model	Port	Max	Max. Temp.	Materials of Construction			Casta	Sump		Dimer	nsions
Number	Size (NPT)	Pressure	for each Element Type	Body	Internals	Bowl	Seals	Capacity	Weight	Length	Width
SN8S	2"	500 PSIG (34 bar)	175°F (CU, 3PU, AU), 175°F (7CVP), 175°F (100WS), 175°F (DS)	316 Stain- less Steel	316 Stainless Steel	316 Stainless Steel	Fluoro- carbon	14.6 oz (431.8 ml)	32.0 lbs (14.5 kg)	27.7" (703.6 mm)	6.3" (160.0 mm)





Flow Rates (SCFM)

Model	Media Grade	100 PSIG	250 PSIG	500 PSIG
SN8S	4CU/4DS	340	785	1526
	6CU/6DS	450	1038	2019
	8CU/8DS	600	1385	2692
	10CU/10DS	750	1731	3366
	3PU	750	1731	3366
	AU	450	1038	2019
	7CVP	750	1731	3366
	100WS	750	1731	3366

How to Order



How to Order Replacement Elements

Element and housing sold separately. Elements available (one per Box): *CU24-187 X 1 *DS24-187 X 1 3PU24-187 X 1 AU24-187 X 1 7CVP24-187 X 1 100WS24-187 X 1

*Insert grade: 4, 6, 8, 10 Example: 6CU24-187 X 1



M-Series Filters

800 PSIG Pressure Filters

Parker Finite's M-Series provides the needed filtration for a wide variety of compressed air/gas applications. Varied porting and connection styles, along with a robust design make this an extremely versatile filter. It is a perfect fit for interstage filtration applications for multistage, high pressure gas compressors. The aluminum heads and drawn aluminum bowls are compatible with special gases such as argon, hydrogen, compressed natural gas, and helium. This housing design minimizes the problem of porosity often present with housings made by die casting.

PET bottle blowing plants rely on the filtration protection of the M-Series to meet stringent standards for contact with food and beverage containers.



Specifications

Model	del Port	Max	Max.	Mate	erials of Constru	ction		Sump		Dimer	isions
Number	Size NPT	Pressure	Temp.	Head	Internals	Bowl	Seals	Capacity	Weight	Length	Width
MN1S	1/4"	800 PSIG (55 bar)	175°F (79°C)	Machined Aluminum	Stainless Steel/ Plastic	Aluminum	Buna-N	5.1 oz (150 ml)	1.83 lbs (0.83 kg)	7.89" (200 mm)	3.06" (78 mm)
MN1L	1/4"	800 PSIG (55 bar)	175°F (79°C)	Machined Aluminum	Stainless Steel/ Plastic	Aluminum	Buna-N	4.7 oz (140 ml)	2.19 lbs (0.99 kg)	10.28" (261 mm)	3.06" (78 mm)
MN15S	3/8"	800 PSIG (55 bar)	175°F (79°C)	Machined Aluminum	Stainless Steel/ Plastic	Aluminum	Buna-N	5.1 oz (150 ml)	1.82 lbs (0.82 kg)	7.89" (200 mm)	3.06" (78 mm)
MN15L	3/8"	800 PSIG (55 bar)	175°F (79°C)	Machined Aluminum	Stainless Steel/ Plastic	Aluminum	Buna-N	4.7 oz (140 ml)	2.17 lbs (0.98 kg)	10.28" (261 mm)	3.06" (78 mm)
MN2S	1/2"	800 PSIG (55 bar)	175°F (79°C)	Machined Aluminum	Stainless Steel/ Plastic	Aluminum	Buna-N	5.1 oz (150 ml)	1.80 lbs (0.82 kg)	7.89" (200 mm)	3.06" (78 mm)
MN2L	1/2"	800 PSIG (55 bar)	175°F (79°C)	Machined Aluminum	Stainless Steel/ Plastic	Aluminum	Buna-N	4.7 oz (140 ml)	2.15 lbs (0.98 kg)	10.28" (261 mm)	3.06" (78 mm)
MN3S	3/4"	800 PSIG (55 bar)	175°F (79°C)	Machined Aluminum	Stainless Steel/ Plastic	Aluminum	Buna-N	9.1 oz (270 ml)	5.01 lbs (2.27 kg)	10.83" (275 mm)	4.55" (116 mm)
MN4S	1"	800 PSIG (55 bar)	175°F (79°C)	Machined Aluminum	Stainless Steel/ Plastic	Aluminum	Buna-N	9.1 oz (270 ml)	4.90 lbs (2.22 kg)	10.83" (275 mm)	4.55" (116 mm)
MN4L	1"	800 PSIG (55 bar)	175°F (79°C)	Machined Aluminum	Stainless Steel/ Plastic	Aluminum	Buna-N	9.1 oz (270 ml)	5.54 lbs (2.51 kg)	14.36" (365 mm)	4.55" (116 mm)
MN8S	2"	800 PSIG (55 bar)	175°F (79°C)	Sand Cast Aluminum	Aluminum	Aluminum	Buna-N	14.9 oz (440 ml)	10.37 lbs (4.71 kg)	18.60" (472 mm)	5.91" (150 mm)



Μ	Ν	2	S		6	Q	U	G
Series Name	Port Type	Port Size	Bowl		Media Grade	Media Type	End Seal	Accessories
М	N - NPT	1 - 1/4"	S - Standard		4 6 8 10	C (Coalescer)	1/4" - 1" port size: Leave blank for no end seal or U (Urethane)	N (No Accessories) G (Gauge)
		15 - 3/8"	(Long) Note: L is not available for 3/4" and 2" port size housings		4 6 8 10	Q (Coalescer with built-in pre-filter)	2" port size: V (Fluorocarbon)	
		2 - 1/2"			Leave blank	100WS	U (Urethane) Standard on all sizes	Option (G) is a
		3 - 3/4" 4 - 1" 8 - 2"			Leave blank	7CVP (only available on 2" port)	1/4" - 1" port size: U (Urethane) For 2" leave blank (standard fluorocarbon end	great way to moni- tor pressure drop and determine when to replace the filter element.
	S (SAE)		- 1		Leave	3P (Pleated	seals)	
SAE -32 2" connection only		8 (SAE -32)			blank	Cellulose) Particulate element	(standard fluoro- carbon end seals)	
Examples: MN8S-7CVP	MN2S-6QUG, MN G	I3S-3PUN, N	IN8S-6CVG,	18S-6CVG,		A (Adsorber)	1/4" - 1" port size: U (Urethane)	
Mounting b and BK-3 (3/	rackets availab 4" - 1" port size)	le: MB-2 (1/4	" - 1/2" port size)				V (Fluorocarbon)	

How to Order Replacement Elements

Examples

3PU10-025, 6CU10-025 Element Box quantity depends on media type selected.

Housing (_Port Type)	Media Grade and Type	Element Size
M_1S M_15S M_2S	*C,*CU,*QU, 3PU, AU, 100WSU	10-025
M_1L M_15L M_2L	*C,*CU,*QU, 3PU, AU, 100WSU	10-050 (for 100WSU use 10-025)
M_3S M_4S	*C,*CU,*QU, 3PU, AU, 100WSU	15-060
M_4L	*C,*CU,*QU, 3PU, AU, 100WSU	15-095 (for 100WSU use 15-060)
M_8S	*CV,*QU, 3PV, AV, 100WS, 7CVP	25-130

Replacement Element Part Numbers

	Filter Housing	Media Grade	100 PSIG	250 PSIG	500 PSIG	800 PSIG	Filter Housing	Media Grade	100 PSIG	250 PSIG	500 PSIC
	M_1S	4C/4Q	11	25	49	78	M_15L	4C/4Q	30	69	135
		6C/6Q	15	35	67	107		6C/6Q	40	92	179
		7CVP	NA	NA	NA	NA		7CVP	NA	NA	NA
		8C/8Q	20	46	90	142		8C/8Q	55	127	247
		10C/10Q	25	58	112	178		10C/10Q	66	152	296
		3P	25	58	112	178		3P	66	152	296
		100WS	50	115	224	355		100WS	66	152	296
		А	15	35	67	107		А	40	92	179
	M_1L	4C/4Q	23	53	103	163	M_2S	4C/4Q	19	44	85
	6	6C/6Q	30	69	135	213		6C/6Q	25	57	112
		7CVP	NA	NA	NA	NA		7CVP	NA	NA	NA
		8C/8Q	41	95	184	291		8C/8Q	34	78	153
		10C/10Q	50	115	224	355		10C/10Q	42	97	189
		3P	50	115	224	355		3P	42	97	189
		100WS	50	115	224	355		100WS	83	192	372
		А	30	69	135	213		А	25	58	112
	M_15S	4C/4Q	15	35	67	107	M_2L	4C/4Q	38	88	171
		6C/6Q	20	46	90	142		6C/6Q	50	115	224
		7CVP	NA	NA	NA	NA		7CVP	NA	NA	NA
		8C/8Q	27	62	121	192		8C/8Q	68	157	305
		10C/10Q	33	76	148	235		10C/10Q	83	192	372
		3P	33	76	148	235		3P	83	192	372
	1 <i>F</i>	100WS	66	152	296	469		100WS	83	192	372
		А	20	46	90	142		А	50	115	224

How to Order

Determine the housing you have by choosing from the "Housing" column on the chart.

3

Determine the corresponding element size by choosing from the "Element Size" column on the chart.

Determine the element type and grade you need. *Insert grades 4,6,8, or 10 for C, CU, CV, or QU.



Combine "Element Grade and Type" designation with "Element Size" to get element part number.

Filter Housing	Media Grade	100 PSIG	250 PSIG	500 PSIG	800 PSIG
M_3S	4C/4Q	61	141	274	434
	6C/6Q	80	185	359	569
	7CVP	NA	NA	NA	NA
	8C/8Q	109	252	489	775
	10C/10Q	133	307	597	946
	3P	133	307	597	946
	100WS	133	307	597	946
	А	80	184	359	569
M_4S	4C/4Q	76	175	341	541
	6C/6Q	100	231	449	711
	7CVP	NA	NA	NA	NA
	8C/8Q	136	314	610	967
	10C/10Q	166	383	745	1181
	3P	166	383	745	1181
	100WS	232	535	1041	1650
	А	100	231	449	711
M_4L	4C/4Q	106	245	476	754
	6C/6Q	140	323	628	995
	7CVP	NA	NA	NA	NA
	8C/8Q	191	441	857	1358
	10C/10Q	232	535	1041	1650
	3P	232	535	1041	1650
	100WS	232	535	1041	1650
	А	140	323	628	995

Filter Housing	Media Grade	100 PSIG	250 PSIG	500 PSIG	800 PSIG
M_8S	4C/4Q	260	600	1167	1849
	6C/6Q	350	808	1571	2489
	7CVP	600	1385	2692	4267
	8C/8Q	465	1073	2087	3307
	10C/10Q	600	1385	2692	4267
	3P	600	1385	2692	4267
	100WS	600	1385	2692	4267
	А	350	808	1571	2489

Note: "__" insert port type from the "How to Order" section on the previous page 65 for more information.



Compressed Natural Gas Dispensing

Urban CNG-Powered Vehicles

J-Series & ZJ-Series Filters

Why do high pressure systems need filtration?

High pressure compressors are used in a variety of applications. Many owners, operators and designers of high pressure compressed air or gas systems rely on Parker's Finite Filter Operation for high efficiency filters. End users of high pressure compressed air, such as scuba divers and fire rescue workers, depend on high quality breathable air.

Parker offers a variety of high pressure compressed air and gas filters. With our wide range of elements, we have a solution for every stage of compression, as well as at the point of use. Whether you are storing high pressure air or gas or using a continuous flow, count on Parker to protect your equipment from contamination. Parker Finite is the solution to ending high pressure contamination fouling.

Throughout the stages of compression many contaminants can enter into the system. Excessive amounts of liquid aerosols, primarily lubricant oil carryover and solid particulate contamination are common in high pressure systems. In addition, higher temperature levels are possible and may cause liquid oils to varnish. This contamination can lead to poor component performance and wear that may lead to unscheduled maintenance. Even submicronic contaminants in compressed air or gas systems can foul multistage compressors, increasing maintenance costs and impacting product quality.

These filters are used in a number of applications, ranging from breathing air for scuba divers, to high-pressure hydraulic circuit testing, to a variety of uses in the alternative fuel industry.

Parker's Finite Filter Operation offers a variety of high pressure compressed air and gas filters. With our wide range of elements, we have a solution for every stage of compression, as well as at the point of use. Whether you are storing high pressure air or gas or using a continuous flow, count on Parker to protect your equipment from contamination. Parker Finite is the solution to ending high pressure contamination fouling. Parker's Finite Filter Operation's J-Series and ZJ-Series Filters are designed to filter contaminants such as rust, pipe scale, compressor lubricant oil, and water from compressed gases. These filters are often used in high pressure compressed natural gas (CNG) systems, not only as inter-stage filters in the multi-stage compression of the gas, but also in the storage and delivery of the gas for CNG powered vehicles.

Parker's varied media choices remove up to 99.995% of both solid and liquid aerosols, and contaminants as small as 0.01 microns in size. An activated carbon media is also available which removes oil vapor. This stage of filtration is often used as the final filter before the storage of high pressure breathing air used by scuba divers, firefighters, and others who utilize portable breathing devices.

The filter housings and the replaceable elements used in this product line have an extremely robust construction, specially designed for use in system pressures up to 5,000 psig. Five housing sizes and two thread styles (NPT or SAE) are available with connections ranging from 1/4" to 2"; temperatures up to 350°F, and flows up to 26,000 SCFM at 5,000 PSIG.

J-Series High Pressure Filters

- CNG, alternative fuel and breathing air filters
- Pressures to 5000 PSIG
- Coalescing, particulate and adsorption filter elements available
- Spheroidal Graphite Cast Iron



Filter Element Features

Parker Finite offers six filter media grades ensuring that we have the correct media choice for nearly any application requirement.

Available are coalescing grades with 95% to 99.995% efficiency and pleated or UNI-CAST coalescing media designs. Additionally, a bulk liquid separator, a particulate removal and oil vapor removal choices are standard offerings.

Each element uses a retention clip design that ensures the element is seated and sealed properly. This built-in, fail-safe feature will virtually eliminate any possibility of contaminant by-pass and is unique amongst high pressure filters.

Each element is composed of internal and external plated carbon steel retainers which provide the element with a 75+ PSID burst rating. Each element also features a bore seal interface with the housing, an anti-vibration shoulder, and an integrated standoff which minimizes the likelihood of any movement of the element, even during severe system pulsations.

Element standoff lengths were designed for each housing size to allow an optimal volume of liquid contaminant to be collected in the filter's quiet zone, further minimizing any chance of contaminant carryover.

ZJ-Series Compressed Natural Gas Filters

- CNG, alternative fuel, high-pressure gases and air filters.
- Pressures to 6000 PSIG.
- Coalescing, particulate and adsorption filter elements available.
- Carbon Steel, Electroless Nickel Plate.
- Temperatures to -40°C/F
- CRN Registered.





Filter Housing Features

- Robust, spheroidal graphite-cast iron offers higher mechanical strength, improved ductility, and increased shock resistance, assuring the user that this filter is built for the task at hand.
- Head to bowl bore seal ensures greater seal integrity.
- Threaded mounting holes on top of filter head allow each size to be easily panel mounted when line mounting is not an option.
- Engraved flow direction arrow in filter's head notifies the user of proper flow direction. One direction flow for all media choices reduces the possibility of a housing being installed improperly.
- The spheroidal graphite cast iron head and steel bowl are nickel plated for corrosion resistance. The completed assembly is finished with a UV stable epoxy powder paint that will allow the filter to stand-up to harsh outdoor conditions.
- An imprinted aluminum part number tag ensures that each unit's identifying information will be visible in the years ahead.
- SAE-6 steel drain plug with positive o-ring seal installed. This port also allows the easy installation of Finite's JDK5000H or JDK5000V / ZJDK6000H or ZJDK6000V high pressure drain kits which allow the safe removal of liquid contamination at system pressures.

High Pressure (HP) Filter Applications:

Application	Media G	rade and Type
Test Air for HP Hydraulics	10C/7CP	I
Inter-stage HP Compressor	WS/10C	l i
CNG Compressor Outlet	10C	4C
CNG Storage Cascades	10C	4 C
CNG Dispensers	10C	4C
Breathing Air/SCUBA	10C	4C A
High Pressure "Ultra Pure Air"	10C	4C 4C A
Bulk Liquid contamination	WS	7CP 4C
Bulk Solid Contamination	3P	7CP 4C
HP Air/Gas Dryer Protection	10C/7CP	4C Dryer 7CP/3P
Food Applications/Odor Removal	10C/7CP	4 C A

Media Grade and Type

- Bowls are designed to be easily tightened or loosened with a standard socket wrench.
- Bowls feature a slotted positional locator which enables the element to be positively retained, therefore having a low bowl removal clearance.
- For the ZJ-Series, differential pressure ports (SAE-4) are included in filter heads to monitor the system during operation.



Media Grades and Specifications

Finite media grades determine the filtration m. Capture efficiencies are available up to 99.995%. Micron ratings range from 0.01 to 3 micron. The columns on the right note both the wet and dry pressure drops.

Grade Designation	Media Type	Removes	Coalescing Efficiency	Max. Oil Carryover ppm ¹	Micron Rating (µm)	Pressure Drop Media Dry (PSID)	Additional Pressure Drop Media Wet ² (PSID)
4 C	Coalescing	Liquid from Gas	99.995%	0.003	0.01	1.25	3-4
7CP	Coalescing	Liquid from Gas	99.5%	0.09	0.5	0.25	0.5-0.7
10C	Coalescing	Liquid from Gas	95%	0.85	1.0	0.5	0.5
WS	Bulk Separator	Bulk Liquid from Gas	99+% ³	N.A.	100	<0.25	<0.25
3P	Particulate	Solids from Gas	N.A.	N.A.	3.0	0.25	N.A.
Α	Adsorber	Vapor from Gas	99 +% ⁴	.003	3.0	1.0	N.A.

¹Tested per ISO 12500-1 at 40 ppm inlet. ²Add dry + wet columns for total pressure drop. ³Bulk liquid removal efficiency.

⁴Oil vapor removal efficiency is given for A media.

Element Types and Media Grade Options

Coalescing Elements (removal of liquids and particulate)

Coalescing elements are specially 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 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.



Media Type C

The Finite UNI-CAST coalescing elements are made of epoxy saturated borosilicate glass microfiber and includes a polyester drain layer. (1)(2)



Media Type 7CP

This pleated coalescer is made of fluorocarbon saturated borosilicate glass microfiber and includes a polyester drain layer. (1)(2)



(removal of bulk liquids)



In this element, the gas or liquid flows from the inside of the element to the outside.

Media Type WS

The Finite water separator element is composed of wrapped stainless steel mesh. (1)(2)





Particulate filters in the J-Series flow from the inside of the element to the outside. Particles collect in the element, while the clean air exits through the outlet port.

Media Type 3P

This 3 micron absolute rated pleated element is made of cellulose. (1)(2)





Adsorption elements are used to remove vapors (hydrocarbon) that are not removed by the coalescing filter. Hydrocarbon vapors collect in the element, while clean air exits the housing through the outlet port. In this element, the air or gas flows from the inside of the element to the outside.

Media Type A

Our Type A media is wrapped activated carbon. This element has a galvanized carbon steel inner retainer and a stainless steel perforated metal outer retaining layer. (2)

Notes:

¹ Each element is retained internally and externally with galvanized carbon steel perforated metal. Not shown in some photos above.

 $^{\rm 2}\mbox{Top}$ and bottom end caps are made of glass filled nylon to ensure durability.

Flow Rates (SCFM)

Choose Filter Size to find the corresponding flow rates.

J-Series

Model	Port	Filter Type	100 PSIG	1000 PSIG	1500 PSIG	2000 PSIG	2500 PSIG	3000 PSIG	3500 PSIG	4000 PSIG	4500 PSIG	5000 PSIG
1.14	1/4"	4C, A	15	135	200	265	330	395	460	525	590	655
J_IA	SAE-4	7CP, 10C, 3P, WS	30	265	395	525	660	790	920	1050	1180	1310
	1/2"	4C, A	25	220	330	440	550	655	765	875	985	1095
J_ZA	SAE-8	7CP, 10C, 3P, WS	50	440	660	880	1095	1315	1530	1750	1970	2185
1.00	1/2"	4C, A	35	310	460	615	765	920	1070	1225	1380	1530
J_2D	SAE-8	7CP, 10C, 3P, WS	80	710	1055	1405	1755	2105	2450	2800	3150	3500
	3/4"	4C, A	60	530	790	1055	1315	1575	1840	2100	2360	2525
J_3B	or SAE-12	7CP, 10C, 3P, WS	130	1150	1715	2285	2850	3415	3985	4550	5115	5685
1.40	1"	4C, A	90	795	1190	1580	1975	2365	2760	3150	3540	3935
J_4C	SAE-16	7CP, 10C, 3P, WS	200	1770	2640	3515	4385	5255	6130	7000	7870	8745
	1-1/2"	4C, A	180	1590	2375	3160	3945	4730	5515	6300	7085	7870
J_0D	or SAE-24	7CP, 10C, 3P, WS	400	3540	5280	7025	8770	10515	12255	14000	15745	17490
	2"	4C, A	275	2435	3630	4830	6030	7230	8425	9625	10825	12025
J_8E SA	or SAE-32	7CP, 10C, 3P, WS	600	5310	7925	10540	13155	15770	18385	21000	23615	26230

ZJ-Series

Model	Port	Filter Type	100 PSIG	1000 PSIG	1500 PSIG	2000 PSIG	2500 PSIG	3000 PSIG	3500 PSIG	4000 PSIG	4500 PSIG	5000 PSIG
ZJS3C	3/4"	4C, A	90	795	1190	1580	1975	2365	2760	3150	3540	3935
ZJN3C	SAE-12	7CP, 10C, 3P, WS	200	1770	2640	3515	4385	5255	6130	7000	7870	8745
ZJS4C	1" or	4C, A	90	795	1190	1580	1975	2365	2760	3150	3540	3935
ZJN4C	SAE-16	7CP, 10C, 3P, WS	200	1770	260	3515	4385	5255	6130	7000	7870	8745
ZJS4D	1"	4C, A	135	1190	1780	2370	2920	3445	4135	4725	5310	5900
ZJN4D	SAE-16	7CP, 10C, 3P, WS	250	2230	3330	4425	5525	6625	7725	8820	9920	11020
ZJS6D	1 1/2"	4C, A	180	1590	2375	3160	3945	4730	5515	6300	7085	7870
ZJN6D	SAE-24	7CP, 10C, 3P, WS	400	3540	5280	7025	8770	10515	12255	14000	15745	17490
ZJS4E	1" or	4C, A	185	1630	2430	3230	4040	4845	5645	6450	7250	8050
ZJN4E	SAE-16	7CP, 10C, 3P, WS	450	3980	5940	7905	9865	11820	13790	15750	17700	19670
ZJS8E	SAF-32	4C, A	275	2435	3630	4830	6030	7230	8425	9625	10825	12025
ZJN8E	0.12 02	7CP, 10C, 3P, WS	600	5310	7925	10540	13155	15770	18385	21000	23615	26230

Note: All rates are based on compressed air flow. For CNG, these flows can be multiplied by a factor of 1.2.

Specifications



J_D Series

J_E Series

J-Series

Model	J_1A	J_2A	J_2B	J_3B	J_4C	J_6D	J_8E
Port Size (N=NPT)	1/4" NPT	1/2"NPT	1/2"NPT	3/4" NPT	1"NPT	1-1/2"NPT	2" NPT
Port Size (S=SAE)	SAE-4	SAE-8	SAE-8	SAE-12	SAE-16	SAE-24	SAE-32
Max. Pressure	5000 PSIG						
Max. Temperature ¹	350°F						
Head	SG Iron*						
Bowl	Steel						
Seals	Fluorocarbon						
Backing Ring	Nitrile						
Sump Volume	50 mL	50 mL	180 mL	180 mL	230 mL	500 mL	500 mL
Weight	9.0 lbs	9.0 lbs	13.0 lbs	13.0 lbs	21.0 lbs	45.0 lbs	67.0 lbs
Port to Port	3.62"	3.62"	4.33"	4.33"	4.96"	6.42"	7.2"
Height	7.4"	7.4"	12.0"	12.0"	13.5"	17.5"	22.1"
Clearance	2.0"	2.0"	2.25"	2.25"	2.25"	3.0"	3.0"
Drain Port	SAE-6						
Socket/Bowl Removal	1-1/16" HEX	1-1/2" HEX	1-1/2" HEX				
Head/Bowl Torque	15-20 ft-lbs	15-20 ft-lbs	25-30 ft-lbs	25-30 ft-lbs	25-30 ft-lbs	60-70 ft-lbs	60-70 ft-lbs

Note: SG Iron is an abbreviation for Spheroidal Graphite Cast Iron.

ZJ-Series

Model	ZJS3C	ZJS4C	ZJS4D	ZJS6D	ZJS4E	ZJS8E
Port Size (S=SAE)	SAE-12	SAE-16	SAE-16	SAE-24	SAE-16	SAE-32
Max. Pressure	6000 PSIG					
Max. Temperature	350°F	350°F	350°F	350°F	350°F	350°F
Min. Temperature	-40° F/C					
Certifications ²	CRN	CRN	CRN	CRN	CRN	CRN
Head	Steel	Steel	Steel	Steel	Steel	Steel
Bowl	Steel	Steel	Steel	Steel	Steel	Steel
Seals ¹	Fluorocarbon	Fluorocarbon	Fluorocarbon	Fluorocarbon	Fluorocarbon	Fluorocarbon
Plating on Head/Bowl	Nickel Plated					
Backing Ring ¹	Fluorocarbon	Fluorocarbon	Fluorocarbon	Fluorocarbon	Fluorocarbon	Fluorocarbon
Sump Volume	230 mL	230 mL	500 mL	500 mL	500 mL	500 mL
Weight	50.0 lbs	50.0 lbs	100.0 lbs	100.0 lbs	120.0 lbs	120.0 lbs
Port to Port	5.56"	5.56"	7.31"	7.31"	7.31"	7.31"
Height	13.9"	13.9"	18.64"	18.64"	22.40"	22.40"
Clearance	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"
Differential Pressure Ports	SAE-4	SAE-4	SAE-4	SAE-4	SAE-4	SAE-4
Drain Port	SAE-6	SAE-6	SAE-6	SAE-6	SAE-6	SAE-6
Socket/Bowl Removal	1" HEX	1" HEX	1" HEX	1-1/12" HEX	1-1/12" HEX	1-1/2" HEX
Head/Bowl Torque	25-30 ft-lbs	25-30 ft-lbs	60-70 ft-lbs	60-70 ft-lbs	60-70 ft-lbs	60-70 ft-lbs

Notes:

1 Explosive decompression resistant compound to ISO 23936-2 and Total GS EP PVV142.

2 CRN All Provinces, 6,000 psig, -40°F/°C and +350°F/176.66°C.







How to Order

Use the steps below to build your own part number. For any permutation not mentioned below, please consult factory at 1-800-343-4048.

J-Series







Examples: JN2A-4CN, JS6D-WSN, JN3B-3PN

Replacement Element Part Numbers



Examples: 4CJAK, WSJDK, 3PJBK

Note: Replacement element supplied with replacement head/bowl seals and lubricant.

High Pressure Drains and Gauge

Model Number	Description
JDK5000H	Horizontal Drain Kit 5000 psig
JDK5000V	Vertical Drain Kit 5000 psig
BDPI-25	Differential Pressure Gauge and Bracket





Replacement Element Part Numbers

4C	J	Α	K
Media Grade	Series Name	Housing Size	Port
4C	J	С	К
10C		D	
7CP		E	
WS			
3P			
А			

High Pressure Drains

Model Number	Description
ZJDK6000H	Horizontal Drain Kit 6000 psig
ZJDK6000V	Vertical Drain Kit 6000 psig

Note: Replacement element supplied with replacement head/bowl seals and lubricant.

LPGD-200 Disposable Liquid Propane Filters

500 PSIG Pressure Filters

Parker Finite's LPGD-200 Series is used onboard propane powered vehicles to prevent contaminants in the fuel tank from getting into the engine, protecting critical engine components like fuel injectors. The filter is rated for 500 psig. The LPGD-200 filter series removes submicronic contaminants rated to either 5 micron or 1 micron depending on the protection requirements. Its small size allows for versatile installation and easy servicing. Each housing is black powder painted for long-term corrosion protection. It is supplied with 1/2" SAE flare connections on both the inlet and outlet fittings making for easy installation.





Specifications

Model	Port Max. Materials of Construction		Seals	Sump	Weight	Dimensions				
Number	(NPT)	Pressure	Temp.	Body	Element		Capacity	Weight	Length	Width
LPGD- 200	1/2" SAE Flare	500 PSIG (34 bar)	250°F (79°C)	Painted Carbon Steel, Copper	Micro-glass pleated coalescer	Fluorocarbon	5.1 oz (150 ml)	1.4 lbs (0.64 kg)	6.53" (165.9 mm)	2.62" (66.5 mm)

How to Order



Flow Rates (SCFM)

Filter Housing Model Number	Micron Rating	Rated Flow
LPGD-200-01	1	1.0 GPM/0.6 PSID 1.5 GPM/1.0 PSID
LPGD-200-05	5	4 GPM/3.6 PSID 10 GPM/8.9 PSID



LPGR-200 Replaceable Liquid Propane Filters

800 PSIG Pressure Filters

The new LPGR-200 Series Replaceable Filter Element Housing can be used on-board propane-powered vehicles including: shuttle buses, delivery trucks, and vans as well as lift trucks and turf maintenance vehicles.

This new filter series offers a replaceable filter element. This means that the housing itself no longer needs to be discarded. Simply, remove the bowl, replace the element and O-ring, and secure the head and bowl back together.

This unique housing is designed to prevent contaminants that have settled in liquid propane tanks and fuel lines from reaching critical engine components. The LPGR-200 contains a high efficient pleated element that is offered in either a 1-micron or 5-micron rating. The pleated element construction guarantees a long filter life and the pleated media is backed on both sides by a rugged epoxy coated steel screen for high strength during peak flow rate conditions. The black anodized lightweight aluminum housing is designed for long term corrosion protection. The SAE-8 port connections allow for leak-free, quick, and easy installation.

Features and Benefits:

- On-board liquid propane filter
- 1 micron & 5 micron rated elements available
- 800 psig/55 barg maximum operating pressure
- 250°F/121°C maximum operating temperature
- Compact lightweight aluminum housing
- Black anodized for long term corrosion resistance
- Replaceable element
- SAE-8 port connections
- Pleated element construction

 ensures longer filter life

Specifications

Model	Port Size	Max. Pressure	Max. Temp.	Materials of Construction			Waisht	Dimensions	
Model				Head	Bowl	Seals	weight	Length	Width
LPGR-200-01	SAE 8 800 PSIG		250°F	Apodized Aluminum		Elucrocarbon	1.5 lbs (0.7 kg)	4.80"	3.06"
LPGR-200-05	SAE-0	(55 barg)	(121°C)	Anouizeu Aluminum		FILOIOCAIDOIT	1.5 IDS (0.7 Kg)	(122.0 mm)	(77.8 mm)

Flow Rates (GPM)

Filter Housing Model Number	Coalescing Efficiency	Flow Rate
LPGR-200-01	1 micron	1.0 GPM/0.6 PSID/1.5 GPM/1.0 PSID
LPGR-200-05	5 micron	4.0 GPM/3.6 PSID/10 GPM/8.9 PSID

How to Order



Examples: LPGR-200-01, LPGR-200-05

Replacement Element Kit Available

Filter Housing Model Number	Element 1.0 Micron	Element 5.0 Micron
LPGR-200-01	LPG200-01K	-
LPGR-200-05	-	LPG200-05K

Includes: Element, head-to-bowl O-ring, and lubricant.

Mounting Bracket Kit

MBS-1

Kit includes bracket and 2 cap screws.

Certification

ECE-R110







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