

# Compressed Air & Gas Filters



Our 300 Series Compressed Air & Gas Filters are designed for versatility. The many features and wide variety of filter elements provide custom protection for instrumentation, pneumatic equipment, fuel gas systems, air dryers as well as a vast array of process applications.

At the heart of our coalescing filter is the completely disposable C-type coalescing element. Made entirely of borosilicate glass microfiber and fluorocarbon binder, the element is compatible with all compressor lubricants and will operate at temperatures up to 300°F. This element is rated at 0.01 micron efficiency to capture all the fine aerosol mist that is prevalent in compressed air and gas systems.

We realize that every filter application is unique, therefore besides offering our standard 0.01 micron microfiber coalescing elements we also provide sintered polyethylene (PEL) elements for bulk contaminants, and re-cleanable mesh stainless steel (SS) elements for harsh service. A pleated (PL) element is also offered for systems laden with pipe scale particles or post desiccant dryer dust.



**United Filtration Systems, Inc.**  
T (586) 802-5561 • [www.unitedfiltration.com](http://www.unitedfiltration.com)



Partner of Headline Filters

**AL300-2**

# ALUMINUM FILTER ASSEMBLIES

## Features:

- Rugged, 100% Machined Anodized Aluminum Construction
- Complete Standard Range From 1/8" to 3" Line Sizes
- Remove 99.99% Of Oil, Water, & Solids From Compressed Air & Other Gases
- High Efficiency Microfiber Elements
- Capture Dirt, Coalesce Liquids
- Low Cost, Long Life



## Applications:

- Protect HVAC Systems
- Great Point-Of-Use Protection – Compact Design
- Ideal For Portable Air Systems



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## PRINCIPLE SPECIFICATIONS

Housing Model	305		305A		315		315A	
Headline Part Number	300	305	300A	305A	310	315	310A	315A
Port Size (NPT)	1/8"	1/4"	1/8"	1/4"	1/8"	1/4"	1/8"	1/4"
Drain Type (NPT)	No Drain		No Drain		Twist		Petcock	
Maximum Pressure (psig)	150		500		150		500	
Maximum Temperature (°F)	120		240		120		240	
Internal Volume (cc)	35		45		35		45	
Principle Dimensions: (inches)								
Center Of Port To Head	0.39		0.39		0.39		0.39	
Head Diameter	1.57		1.57		1.57		1.57	
Overall Length	4.00		4.00		4.25		4.72	
Element Removal Clearance	1.42		1.42		1.42		1.42	
Filter Element Codes: (1)								
Disposable Element	12-32-□		12-32-□		12-32-□		12-32-□	
Stainless Steel Element	SS-12-32-□		SS-12-32-□		SS-12-32-□		SS-12-32-□	
PEL Element	PEL-12-32-□		PEL-12-32-□		PEL-12-32-□		PEL-12-32-□	
PTFE Element	PT-12-32-□		PT-12-32-□		PT-12-32-□		PT-12-32-□	
Materials Of Construction: (2)								
Head	AL		AL		AL		AL	
Bowl	PC		AL		PC		AL	
Internals	Nylon		Nylon		Nylon		Nylon	
O-Rings (Standard)	Buna-N		Buna-N		Buna-N		Buna-N	
Drain	-		-		Nylon		Brass	
Accessories:								
Mounting Bracket	MBSS315		MBSS315		MBSS315		MBSS315	
Buna-N Seal Set (Standard)	BN315		BN315		BN315		BN315	
EPDM Seal Set	GE315		GE315		GE315		GE315	
Kalrez Seal Set	KZ315		KZ315		KZ315		KZ315	
Viton Seal Set	GV315		GV315		GV315		GV315	

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(3)</sup> or 70C <sup>(4)</sup>

Air Line Pressure (PSIG)	305 Series		315 Series	
	50C	70C	50C	70C
2	1	3	1	3
15	2	6	2	6
30	3	9	3	9
60	4	14	4	14
100	6	23	6	23
150	9	31	9	31
200	12	46	12	46
250	13	47	13	47

- Notes: (1) Replace "□" with grade required, e.g. 12-32-70C, SS-12-32-25  
 (2) Material abbreviations, AL = Aluminum, PC = Polycarbonate  
 (3) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (4) Flow rates for Grade 70C rated at 95% against 0.01 micron

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## Applications:

- Protect Air Actuated Valves
- Paint Spray Booths
- Natural Gas Filtration



## PRINCIPLE SPECIFICATIONS

Housing Model	360		360F		360A		360AF	
Housing Model w/Indicator	360I		360FI		360AI		360AFI	
Headline Part Number	360	365	360F	365F	360A	365A	360AF	365AF
Port Size (NPT)	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"
Drain Type (NPT)	Twist		Automatic		Petcock		Automatic	
Maximum Pressure (psig) (1)	150		150		500 <sup>(1)</sup>		250	
Maximum Temperature (°F)	120		120		240		240	
Internal Volume (cc)	150		130		165		145	
Principle Dimensions: (inches) (2)								
Center Of Port To Head	0.61		0.61		0.61		0.61	
Head Diameter	2.74		2.74		2.74		2.74	
Overall Length	6.38		6.89		6.38		6.89	
Element Removal Clearance	2.74		2.74		2.74		2.74	
Filter Element Codes: (3)								
Disposable Element	25-64-□		25-64-□		25-64-□		25-64-□	
Stainless Steel Element	SS-25-64-□		SS-25-64-□		SS-25-64-□		SS-25-64-□	
PEL Element	PEL-25-64-□		PEL-25-64-□		PEL-25-64-□		PEL-25-64-□	
PTFE Element	PT-25-64-□		PT-25-64-□		PT-25-64-□		PT-25-64-□	
Materials Of Construction: (4)								
Head	AL		AL		AL		AL	
Bowl	PC		PC		AL		AL	
Internals	Nylon		Nylon		Nylon		Nylon	
O-Rings (Standard)	Buna-N		Buna-N		Buna-N		Buna-N	
Drain	Nylon		Plastic/Brass		Brass		Plastic/Brass	
Accessories:								
Mounting Bracket (5)	MBSS360		MBSS360		MBSS360		MBSS360	
Buna-N Seal Set (Standard)	BN360		BN360		BN360		BN360	
EPDM Seal Set	GE360		GE360		GE360		GE360	
Kalrez Seal Set	KZ360		KZ360		KZ360		KZ360	
Viton Seal Set	GV360		GV360		GV360		GV360	
DPI Replacement Kit	DPI300		DPI300		DPI300		DPI300	

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(6)</sup> or 70C <sup>(7)</sup>

Air Line Pressure (PSIG)	360 Series (Max. Pressure 150 PSIG)		360A Series	
	50C	70C	50C	70C
2	3	6	3	6
15	6	11	6	11
30	8	16	8	16
60	13	26	13	26
100	21	44	21	44
150	29	58	29	58
200	-	-	42	88
250	-	-	45	89

- Notes: (1) Aluminum housings with an indicator only has a maximum pressure of 250 psig  
 (2) Dimensions are based on housing and does not include measurement for indicator  
 (3) Replace "□" with grade required, e.g. 25-64-70C, SS-25-64-25  
 (4) Material abbreviations, AL = Aluminum, PC = Polycarbonate  
 (5) Add an "I" to the mounting bracket part number for all Indicator Housings  
 (6) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (7) Flow rates for Grade 70C rated at 95% against 0.01 micron



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## Applications:

- Air Cylinder Protection
- Air Dryer Protection
- Food Processing Systems



## PRINCIPLE SPECIFICATIONS

Housing Model	370	370F	370A	370AF
Housing Model w/Indicator	370I	370FI	370AI	370AFI
Headline Part Number	370	370F	370A	370AF
Port Size (NPT)	1/2"	1/2"	1/2"	1/2"
Drain Type (NPT)	Twist	Automatic	Petcock	Automatic
Maximum Pressure (psig) (1)	150	150	500 <sup>(1)</sup>	250
Maximum Temperature (°F)	120	120	240	240
Internal Volume (cc)	300	280	315	295
Principle Dimensions: (inches) (2)				
Center Of Port To Head	0.61	0.61	0.61	0.61
Head Diameter	2.74	2.74	2.74	2.74
Overall Length	10.25	10.25	10.38	10.38
Element Removal Clearance	7.48	5.51	7.48	5.51
Filter Element Codes: (3)				
Disposable Element	25-178-□	25-127-□	25-178-□	25-127-□
Stainless Steel Element	SS-25-178-□	SS-25-127-□	SS-25-178-□	SS-25-127-□
PEL Element	PEL-25-178-□	PEL-25-127-□	PEL-25-178-□	PEL-25-127-□
PTFE Element	PT-25-178-□	PT-25-127-□	PT-25-178-□	PT-25-127-□
Materials Of Construction: (4)				
Head	AL	AL	AL	AL
Bowl	PC	PC	AL	AL
Internals	Nylon	Nylon	Nylon	Nylon
O-Rings (Standard)	Buna-N	Buna-N	Buna-N	Buna-N
Drain	Nylon	Plastic/Brass	Brass	Plastic/Brass
Accessories:				
Mounting Bracket (5)	MBSS360	MBSS360	MBSS360	MBSS360
Buna- N Seal Set (Standard)	BN370	BN370	BN370	BN370
EPDM Seal Set	GE370	GE370	GE370	GE370
Kalrez Seal Set	KZ370	KZ370	KZ370	KZ370
Viton Seal Set	GV370	GV370	GV370	GV370
DPI Replacement Kit	DPI300	DPI300	DPI300	DPI300

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(6)</sup> or 70C <sup>(7)</sup>

Air Line Pressure (PSIG)	370 Series <sup>(8)</sup> (Max. Pressure 150 PSIG)		370A Series <sup>(8)</sup>	
	50C	70C	50C	70C
2	6	8	6	8
15	10	13	10	13
30	15	19	15	19
60	25	32	25	32
100	40	50	40	50
150	55	68	55	68
200	-	-	80	100
250	-	-	83	106

- Notes: (1) Aluminum housings with an indicator only has a maximum pressure of 250 psig  
 (2) Dimensions are based on housing and does not include measurement for indicator  
 (3) Replace "□" with grade required, e.g. 25-178-50C, SS-25-178-25  
 (4) Material abbreviations, AL = Aluminum, PC = Polycarbonate  
 (5) Add an "I" to the mounting bracket part number for all Indicator Housings  
 (6) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (7) Flow rates for Grade 70C rated at 95% against 0.01 micron  
 (8) Reduce flow rates for 370F and 370AF series by 20%. (I.E. 10 SCFM = 8 SCFM)



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## Applications:

- Compressed Natural Gas Filtration
- High Pressure Gas Filters (1,000 PSIG)
- Booster Compressor Protection



## PRINCIPLE SPECIFICATIONS

Housing Model	380		380F		380AHP		380AHPF	
Housing Model w/Indicator	380I		380FI		380AHPVDI		380AHPFVDI	
Headline Part Number	380	383	380F	383F	380AHP	383AHP	380AHPF	383AHPF
Port Size (NPT)	3/4"		1"		3/4"		1"	
Drain Type - 1/4" FNPT	Twist		Automatic		Petcock		Automatic	
Maximum Pressure (psig)(6)	150		150		1,500*(6)		250	
Maximum Temperature (°F)	120		120		120		120	
Internal Volume (cc)	675		655		675		655	
Principle Dimensions: (inches) (1)								
Center Of Port To Head	1.00		1.00		1.34		1.34	
Head Diameter	3.94		3.94		4.33		4.33	
Overall Length	12.00		12.00		12.09		12.09	
Element Removal Clearance	5.98		5.98		5.98		5.98	
Filter Element Codes: (2)								
Disposable Element	38-152-□		38-152-□		38-152-□		38-152-□	
Stainless Steel Element	SS-38-152-□		SS-38-152-□		SS-38-152-□		SS-38-152-□	
PEL Element	PEL-38-152-□		PEL-38-152-□		PEL-38-152-□		PEL-38-152-□	
PTFE Element	PT-38-152-□		PT-38-152-□		PT-38-152-□		PT-38-152-□	
Materials Of Construction: (3)								
Head	AL		AL		AL		AL	
Bowl	PC		PC		AL		AL	
Internals	Nylon		Nylon		Nylon		Nylon	
O-Rings (Standard)	Buna-N		Buna-N		Viton		Viton	
Drain	Nylon		Plastic/Brass		Brass		Plastic/Brass	
Accessories:								
Mounting Bracket	MB380		MB380		MB380		MB380	
Buna-N Seal Set	BN380		BN380		BN380		BN380	
EPDM Seal Set	GE380		GE380		GE380		GE380	
Kalrez Seal Set	KZ380		KZ380		KZ380		KZ380	
Viton Seal Set	GV380		GV380		GV380		GV380	
VDI Replacement Kit	300VDI		300VDI		300VDI		300VDI	

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(4)</sup> or 70C <sup>(5)</sup>

Air Line Pressure (PSIG)	380 Series (Max. Pressure 150 PSIG)		380AHP Series	
	50C	70C	50C	70C
2	13	18	13	18
15	25	31	25	31
30	36	47	36	47
60	61	77	61	77
100	97	122	97	122
150	134	167	134	167
200	-	-	194	244
250	-	-	203	261

- Notes: (1) For housing with indicator add 2.25" to the overall length  
 (2) Replace "□" with grade required, e.g. 38-152-70C, SS-38-152-25  
 (3) Material abbreviations, AL = Aluminum, PC = Polycarbonate  
 (4) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (5) Flow rates for Grade 70C rated at 95% against 0.01 micron  
 (\*) Maximum Pressure on VDI is 500 PSIG  
 (6) CRN Pressure is rated to 1,000 PSIG



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## Applications:

- Mainline Compressed Air Filtration
- CNG Filtration
- Pre-filter / Solid Removal In Gas Lines



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## PRINCIPLE SPECIFICATIONS

Housing Model	385A	385AF	390A	390AF
Housing Model w/Indicator	385AI	385AFI	390AI	390AFI
Headline Part Number	385A	385AF	390A	390AF
Port Size (NPT)	1 1/2"	1 1/2"	2"	2"
Drain Type (NPT)	Petcock	Automatic	Petcock	Automatic
Maximum Pressure (psig)	250	250	250	250
Maximum Temperature (°F)	120	120	120	120
Internal Volume (cc)	2100	2080	3500	3480
Principle Dimensions: (inches) (1)				
Center Of Port To Head	1.85	1.85	1.85	1.85
Head Diameter	5.51	5.51	5.51	5.51
Overall Length	16.39	16.39	25.78	25.78
Element Removal Clearance	9.21	9.21	18.89	18.89
Filter Element Codes: (2)				
Disposable Element	51-230-□	51-230-□	51-476-□	51-476-□
Stainless Steel Element	SS-51-230-□	SS-51-230-□	SS-51-476-□	SS-51-476-□
PEL Element	PEL-51-230-□	PEL-51-230-□	PEL-51-476-□	PEL-51-476-□
PTFE Element	PT-51-230-□	PT-51-230-□	PT-51-476-□	PT-51-476-□
Pleated (For Particulate)	51-230-□PL	51-230-□PL	51-476-□PL	51-476-□PL
Materials Of Construction: (3)				
Head	AL	AL	AL	AL
Bowl	AL	AL	AL	AL
Internals	SS/AL	SS/AL	SS/AL	SS/AL
O-Rings (Standard)	Buna-N	Buna-N	Buna-N	Buna-N
Drain	Brass	Plastic/Brass	Brass	Plastic/Brass
Accessories:				
Mounting Bracket	MB385	MB385	MB390	MB390
Buna- N Seal Set (Standard)	BN385	BN385	BN390	BN390
EPDM Seal Set	GE385	GE385	GE390	GE390
Kalrez Seal Set	KZ385	KZ385	KZ390	KZ390
Viton Seal Set	GV385	GV385	GV390	GV390
DPI Replacement Kit	DPI300	DPI300	DPI300	DPI300

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(4)</sup> or 70C <sup>(5)</sup>

Air Line Pressure (PSIG)	385A Series		390A Series	
	50C	70C	50C	70C
2	21	44	35	50
15	38	79	64	87
30	56	116	154	134
60	93	198	160	221
100	151	314	256	354
150	209	430	354	488
200	302	628	512	708
250	319	667	546	754

- Notes: (1) Dimensions are based on housing and does not include measurement for indicator  
 (2) Replace "□" with grade required, e.g. 51-230-70C, SS-51-476-25, 51-476-50PL  
 (3) Material abbreviations, AL = Aluminum, SS = Stainless Steel  
 (4) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (5) Flow rates for Grade 70C rated at 95% against 0.01 micron

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## Applications:

- Mainline Pre-filter on Air Systems
- Ideal High Volume Particulate Filter
- Desiccant Dryer Post Filters



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## PRINCIPLE SPECIFICATIONS

Housing Model	395A	395AF
Housing Model w/Indicator	395AI	395AFI
Headline Part Number	395A	395AF
Port Size (NPT)	3"	3"
Drain Type (NPT)	Petcock	Automatic
Maximum Pressure (psig)	250	250
Maximum Temperature (°F)	120	120
Internal Volume (cc)	7055	7035
Principle Dimensions: (inches) (1)		
Center Of Port To Head	2.56	2.56
Head Diameter	7.48	7.48
Overall Length	42.32	42.32
Element Removal Clearance	30.31	30.31
Filter Element Codes: (2)		
Disposable Element	63-762-□	63-762-□
Stainless Steel Element	SS-63-762-□	SS-63-762-□
PEL Element	PEL-63-762-□	PEL-63-762-□
PTFE Element	PT-63-762-□	PT-63-762-□
Pleated (For Particulate)	63-762-□PL	63-762-□PL
Materials Of Construction: (3)		
Head	AL	AL
Bowl	AL	AL
Internals	SS/AL	SS/AL
O-Rings (Standard)	Buna-N	Buna-N
Drain	Brass	Plastic/Brass
Accessories:		
Mounting Bracket	MB395	MB395
Buna-N Seal Set (Standard)	BN395	BN395
EPDM Seal Set	GE395	GE395
Kalrez Seal Set	KZ395	KZ395
Viton Seal Set	GV395	GV395
DPI Replacement Kit	DPI300	DPI300

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(4)</sup> or 70C <sup>(5)</sup>

Air Line Pressure (PSIG)	395 Series	
	50C	70C
2	70	99
15	128	174
30	308	267
60	319	441
100	511	708
150	708	975
200	1022	1416
250	1091	1508

- Notes: (1) Dimensions are based on housing and does not include measurement for indicator  
 (2) Replace "□" with grade required, e.g. 63-762-70C, SS-63-762-25, 63-762-50PL  
 (3) Material abbreviations, AL = Aluminum, SS = Stainless Steel  
 (4) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (5) Flow rates for Grade 70C rated at 95% against 0.01 micron

**AL300-2**

# How to select the correct grade of filter element

## GRADE 70C – COALESCER HIGH EFFICIENCY

Has an efficiency rating of **95% against 0.01 micron** particles and aerosols and should be specified for all general purpose applications requiring clean compressed air. e.g. Protection of valves, cylinders, air tools, air motors and pumps etc. This element is ideal for fuel gas/CNG filtration. It provides excellent efficiency while allowing high pass through flow rates.

## GRADE 50C – COALESCER HIGH EFFICIENCY

Has an efficiency rating of **99.99% against 0.01 micron** particles and aerosols and should be specified for the most demanding applications requiring the highest quality of air cleanliness. e.g. air bearings, spray coating, instrumentation, laser systems, food contact etc. For best performance a grade 70C coalescer should be used as a pre-filter to the grade 50C.

## GRADE SS – STAINLESS STEEL –RECLEANABLE

In compressed air & gas service, the mesh stainless steel (SS) elements may be utilized as pre-coalescers or initial course filters in heavily contaminated systems. The SS elements may also be cleaned for reuse. Micron sizes available: 0.5, 1, 3, 10, 25, 50, 100, and 200.

## GRADE PEL – POLYETHYLENE BULK CONTAMINATES

In compressed air & gas service, the sintered polyethylene (PEL) elements may be utilized as pre-coalescers or initial course filters in heavily contaminated systems. They can assist and improve the longevity of a coalescing element to capture fine aerosols. The 75-micron grade is recommended for this task since it exhibits the best flow curves. Micron sizes available: 10, 25, and 75.

## GRADE PL– PLEATED POLYPROPYLENE BULK PARTICLES

The pleated polypropylene (PL) elements are ideal for use in systems laden with pipe scale or post desiccant dryer dust. The pleated surface provides added surface area for capturing particles while still providing excellent flow. We recommend a 10 micron pleated element for post desiccant dryer filtration. This provides the same flow rate as a disposable 70C grade.

## GRADE CC – OIL VAPOR ADSORPTION CRITICAL APPLICATIONS

Coalescing filters can only remove oil and water present in compressed air lines as liquid aerosols. They cannot remove the small fraction of oil present as a true vapor. We provide carbon (CC) based vapor adsorption filter cartridges, which will remove such gaseous contamination when used in conjunction with coalescing filters. Please remember a 50C coalescing prefilter must always protect grade CC Hydrocarbon Vapor Adsorption Cartridges. The CC cartridges have the same Flow rate as 50C elements.

## GRADE SG – H<sub>2</sub>O VAPOR ADSORPTION CRITICAL APPLICATIONS

Coalescing filters can only remove oil and water present in compressed air lines as liquid aerosols. They cannot remove the small fraction of water vapor. We provide silica gel (SG) based vapor adsorption filter cartridges, which will remove such gaseous contamination when used in conjunction with coalescing filters. Please remember a 50C coalescing prefilter must always protect grade SG Water Vapor Adsorption Cartridges. The SG cartridges have the same Flow rate as 50C elements.

## HOW TO SELECT THE CORRECT FILTER HOUSING

First select the correct grade of element using the guidelines above. Next estimate the maximum air flow and line pressure expected at the filter. At the bottom of each housing specification column is a flow rate chart for grade 50C element and grade 70C element. **Housings come standard with either a 50C or 70C coalescing element.**

### INSTALLATION GUIDE

- Never install a filter with ports smaller than the existing air line size.
- Always install the filter as close as possible to the equipment being protected.
- Never exceed the maximum rated flow of the filter, or its efficiency will be jeopardized.
- Never install polycarbonate bowls where synthetic lubricants or solvents may contact them.
- Always use a grade 70C pre-filter before a grade 50C final filter.
- Always protect grade CC and SG vapor adsorption cartridges with a grade 50C coalescer.

### REQUIRE MORE INFORMATION

For Complete Details Please Visit Our Website [www.unitedfiltration.com](http://www.unitedfiltration.com)



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