

COMPRESSED AIR & GAS FILTERS

- 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



Our 300 series of high efficiency coalescing compressed air & gas filters are designed for versatility. The many features provide complete protection for instrumentation, pneumatic machinery, 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 from borosilicate glass microfiber and fluorocarbon binder, it is compatible with all compressor lubricants and will operate at temperatures up to 300°F. The C-type element has a two-layer structure, an inner particle capture-layer and an outer drainage-layer. Liquid droplets remain mobile once captured and travel through the fine-pored capture-layer, along the intersecting microfibers, growing in size as they progress. These coalesced droplets are transferred to the large-pored drainage-layer from where they drain by gravity into the filter bowl. Liquid collected in the filter bowl can be removed by a manual or fully automatic drain.

Each filter assembly comes complete with a coalescing element. Simply designate your grade when ordering: I.E. 360A-1/2"-70C.

HOW TO SELECT THE CORRECT COALESCING 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 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.

HOW TO SELECT THE CORRECT NON-COALESCING FILTER ELEMENT:

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.

*These are not included with 300 series housings. Sold Separately.

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.

*These are not included with 300 series housings. Sold Separately.

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 cartridges, which will remove hydrocarbon vapor 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.

*These are not included with 300 series housings. Sold Separately.

GRADE SG – H₂O 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 present as a true vapor. We provide silica gel (SG) based vapor adsorption cartridges, which will remove water vapor 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.

*These are not included with 300 series housings. Sold Separately.



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HIGH EFFICIENCY COALESCING FILTER 1/8" THROUGH 1/2"

PRINCIPLE SPECIFICATIONS

UFS Model Number	315		315A		360		360F		360A		360AF		370	370F	370A	370AF
Headline Part Number	310	315	310A	315A	360	365	360F	365F	360A	365A	360AF	365AF	370	370F	370A	370AF
Port Size (NPT)	1/8"	1/4"	1/8"	1/4"	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"	1/2"	1/2"	1/2"	1/2"
Model w/ Differential Pressure Indicator	N/A		N/A		360I		360FI		360AI		360AFI		370I	370FI	370AI	370AFI
Drain Type	Twist		Petcock		Twist		Automatic		Petcock		Automatic		Twist	Automatic	Petcock	Automatic
Maximum Temperature (°F)	120		250		120		120		250		120		120	120	250	120
Maximum Pressure (psig)	150		250		150		150		250		150		150	150	250	150
Principle Dimensions: (in.)																
Center Of Port To Head	0.39		0.39		0.61		0.61		0.61		0.61		0.61	0.61	0.61	0.61
Head Diameter	1.57		1.57		2.37		2.37		2.37		2.37		2.37	2.37	2.37	2.37
Overall Length	4.25		4.60		6.41		6.88		6.41		6.96		10.43	10.43	10.43	10.43
Filter Element Codes: (1)																
Disposable Element	12-32-□		12-32-□		25-64-□		25-64-□		25-64-□		25-64-□		25-178-□	25-127-□	25-178-□	25-127-□
Stainless Steel Element	SS-12-32-□		SS-12-32-□		SS-25-64-□		SS-25-64-□		SS-25-64-□		SS-25-64-□		SS-25-178-□	SS-25-127-□	SS-25-178-□	SS-25-127-□
PTFE Element	PT-12-32-□		PT-12-32-□		PT-25-64-□		PT-25-64-□		PT-25-64-□		PT-25-64-□		PT-25-178-□	PT-25-127-□	PT-25-178-□	PT-25-127-□
PEL Element	PEL-12-32-□		PEL-12-32-□		PEL-25-64-□		PEL-25-64-□		PEL-25-64-□		PEL-25-64-□		PEL-25-178-□	PEL-25-127-□	PEL-25-178-□	PEL-25-127-□
Pleated (for Particulate)	12-32-□PL		12-32-□PL		12-32-□PL		25-64-□PL		25-64-□PL		25-64-□PL		25-178-□PL	25-127-□PL	25-178-□PL	25-127-□PL
Materials Of Construction: (2)																
Head	AL		AL		AL		AL		AL		AL		AL	AL	AL	AL
Bowl	PC		AL		PC		PC		AL		AL		PC	PC	AL	AL
Internals	Nylon		Nylon		Nylon		Nylon		Nylon		Nylon		Nylon	Nylon	Nylon	Nylon
O-ring (standard)	Buna-N		Buna-N		Buna-N		Buna-N		Buna-N		Buna-N		Buna-N	Buna-N	Buna-A	Buna-N
Drain	Nylon		Brass		Nylon		Plastic/Brass		Brass		Plastic/Brass		Nylon	Plastic/Brass	Brass	Plastic/Brass
Optional Items:																
Mounting Bracket	MB315		MB315		MB360		MB360		MB360		MB360		MB360	MB360	MB360	MB360
Bowl Guard (3)	BG315		-		BG360		BG360		-		-		BG360	BG360	-	-
Viton Seal Set	GV315		GV315		GV360		GV360		GV360		GV360		GV370	GV370	GV360	GV360
DPI Kit (in Field)	-		-		DPI300		DPI300		DPI300		DPI300		DPI300	DPI300	DPI300	DPI300

- Note: (1) Replace "□" with grade required, e.g. 25-64-70C, SS-25-178-25, 25-64-25PL
 (2) Material abbreviations: AL=Anodized Aluminum, SS=Stainless Steel
 (3) Bowl Guard must be ordered with housing. It cannot be ordered for in field installation.
 (*) Maximum Pressure on Clear Bowls is 150 PSIG

FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C / 70C ⁽¹⁾

Air Line Pressure (PSIG)	315 Series		360 Series		370F Series (with Auto Drain)		370 Series (with Manual Drain)	
	50C	70C	50C	70C	50C	70C	50C	70C
2	1	2	3	6	4	7	6	12
15	2	4	6	11	7	15	10	19
30	3	5	8	15	11	20	15	28
60	4	8	13	24	18	35	27	54
80	5	9	16	38	25	47	34	67
100	6	11	21	52	31	58	43	84
150	9	17	29	53	46	87	65	130
200	11	21	37	70	54	100	82	173
250	13	25	45	93	62	117	98	215

Note: (1) Flow rates for Grade 50C rated at 99.99% against 0.01 micron / Flow rates for Grade 70C rated at 95% against 0.01 micron.

HIGH EFFICIENCY COALESCING FILTERS 3/4" THROUGH 3"

PRINCIPLE SPECIFICATIONS

UFS Model Number	380		380F		380A		380AF		385A	385AF	390A	390AF	395A	395AF
Headline Part Number	380	383	380F	383F	380A	383A	380AF	383AF	385A	385AF	390A	390AF	395A	395AF
Port Size (NPT)	3/4"	1"	3/4"	1"	3/4"	1"	3/4"	1"	1 1/2"	1 1/2"	2"	2"	3"	3"
Model w/ Differential Pressure Indicator	380VDI		380FVDI		380AVDI		380AFVDI		385AVDI	385AFVDI	390AVDI	390AFVDI	395AVDI	395AFVDI
Drain Type	Twist		Automatic		Petcock		Automatic		Petcock	Automatic	Petcock	Automatic	Petcock	Automatic
Maximum Temperature (°F)	120		120		250		120		250	120	250	120	250	120
Maximum Pressure (psig)	150		150		250		250		250	250	250	250	250	250
Principle Dimensions: (in.)														
Center Of Port To Head	1.00		1.00		1.00		1.00		1.85	1.85	1.85	1.85	2.56	2.56
Head Diameter	3.94		3.94		3.94		3.94		5.51	5.51	5.51	5.51	7.48	7.48
Overall Length	12.00		12.00		12.00		12.00		16.25	16.25	25.54	25.54	42.53	42.53
Filter Element Codes: (1)														
Disposable Element	38-152-□		38-152-□		38-152-□		38-152-□		51-230-□	51-230-□	51-476-□	51-476-□	63-762-□	63-762-□
Stainless Steel Element	SS-38-152-□		SS-38-152-□		SS-38-152-□		SS-38-152-□		SS-51-230-□	SS-51-230-□	SS-51-476-□	SS-51-476-□	SS-63-762-□	SS-63-762-□
PTFE Element	PT-38-152-□		PT-38-152-□		PT-38-152-□		PT-38-152-□		PT-51-230-□	PT-51-230-□	PT-51-476-□	PT-51-476-□	PT-63-762-□	PT-63-762-□
PEL Element	PEL-38-152-□		PEL-38-152-□		PEL-38-152-□		PEL-38-152-□		PEL-51-230-□	PEL-51-230-□	PEL-51-476-□	PEL-51-476-□	PEL-63-762-□	PEL-63-762-□
Pleated (for Particulate)	38-152-□PL		38-152-□PL		38-152-□PL		38-152-□PL		51-230-□PL	51-230-□PL	51-476-□PL	51-476-□PL	63-762-□PL	63-762-□PL
Materials Of Construction: (2)														
Head	AL		AL		AL		AL		AL	AL	AL	AL	AL	AL
Bowl	PC		PC		AL		AL		AL	AL	AL	AL	AL	AL
Internals	Nylon		Nylon		Nylon		Nylon		SS/AL	SS/AL	SS/AL	SS/AL	SS/AL	SS/AL
O-ring (standard)	Buna-N		Buna-N		Buna-N		Buna-N		Buna-N	Buna-N	Buna-N	Buna-N	Buna-N	Buna-N
Drain	Nylon		Plastic/Brass		Brass		Plastic/Brass		Brass	Plastic/Brass	Brass	Plastic/Brass	Brass	Plastic/Brass
Optional Items:														
Mounting Bracket	MB380		MB380		MB380		MB380		MB385	MB385	MB390	MB390	MB395	MB395
Viton Seal Set	GV380		GV380		GV380		GV380		GV385	GV385	GV390	GV390	GV395	GV395
DPI Kit (in Field)	300VDI		300VDI		300VDI		300VDI		385VDI	385VDI	385VDI	385VDI	385VDI	385VDI

Note: (1) Replace "□" with grade required, e.g. 38-152-70C, SS-51-230-25, 38-152-25PL

(2) Material abbreviations: AL=Anodized Aluminum, SS=Stainless Steel

(*) Maximum Pressure on Clear Bowls is 150 PSIG

FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C / 70C ⁽¹⁾

Air Line Pressure (PSIG)	380 Series		385A Series		390A Series		395A Series	
	50C	70C	50C	70C	50C	70C	50C	70C
2	15	28	23	48	38	55	77	115
15	27	57	41	87	70	100	140	210
30	40	81	61	127	147	213	338	510
60	67	167	102	218	176	255	350	530
80	88	184	132	277	228	330	456	685
100	106	236	166	345	281	420	562	850
150	147	326	230	473	390	585	778	1167
200	186	465	290	610	495	750	990	1490
250	223	670	350	733	600	960	1200	1800

Note: (1) Flow rates for Grade 50C rated at 99.99% against 0.01 micron / Flow rates for Grade 70C rated at 95% against 0.01 micron.