Arrow Pneumatics

A R R O W P N E U M A T I C S

FRL CATALOG

FRL CATALOG

F I L T E R S R E G U L A T O R S L U B R I C A T O R S A C C E S S O R I E S

ARROW PNEUMATICS

Arrow Pneumatics manufactures a broad range of air preparation products. They include: particulate, oil removing, coalescing and absorbing filters; regulators; lubricators; sintered bronze exhaust mufflers, speed controls and in-line filters; aftercoolers, refrigerated and regenerative air dryers.

Technology expertise, patented design features, high quality standards and timely reaction to industry demands have established Arrow Pneumatics as a leader in the compressed air preparation field.

Arrow Pneumatics has a staff of qualified sales engineers to assist you with solutions to compressed air system needs and is committed to the future of compressed air technology.

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COMPRESSED AIR SYSTEMS

WARNING: Arrow Pneumatics products are used for compressed air service only. Products contained in this catalog are approved for use with breathing air or life support systems only when they are properly installed in conjunction with equipment that meets all applicable federal, state and local laws, codes, rules and regulations. These codes include, but are not limited to:

O.S.H.A. 29CFR1910, 134

Compressed Gas Association
Commodity Specification G-7

1-1966 Grade D Breathing Air and/or
Canadian Standards Association

NFPA-99

If the purchaser or user fails to apply such specialized equipment and proceeds to use Arrow Pneumatics, Inc. products for breathing air service, the purchaser/user assumes all resulting liability without any responsibility or liability assumed by Arrow Pneumatics, Inc.

Compressed air powered equipment and machinery are critical elements in the productivity, efficiency and economy of today's industry, and quality air is the essential ingredient. High speed pneumatic production lines operate efficiently because of air dryers and filters that remove moisture and impurities from the air and regulators and lubricators which help eliminate downtime.

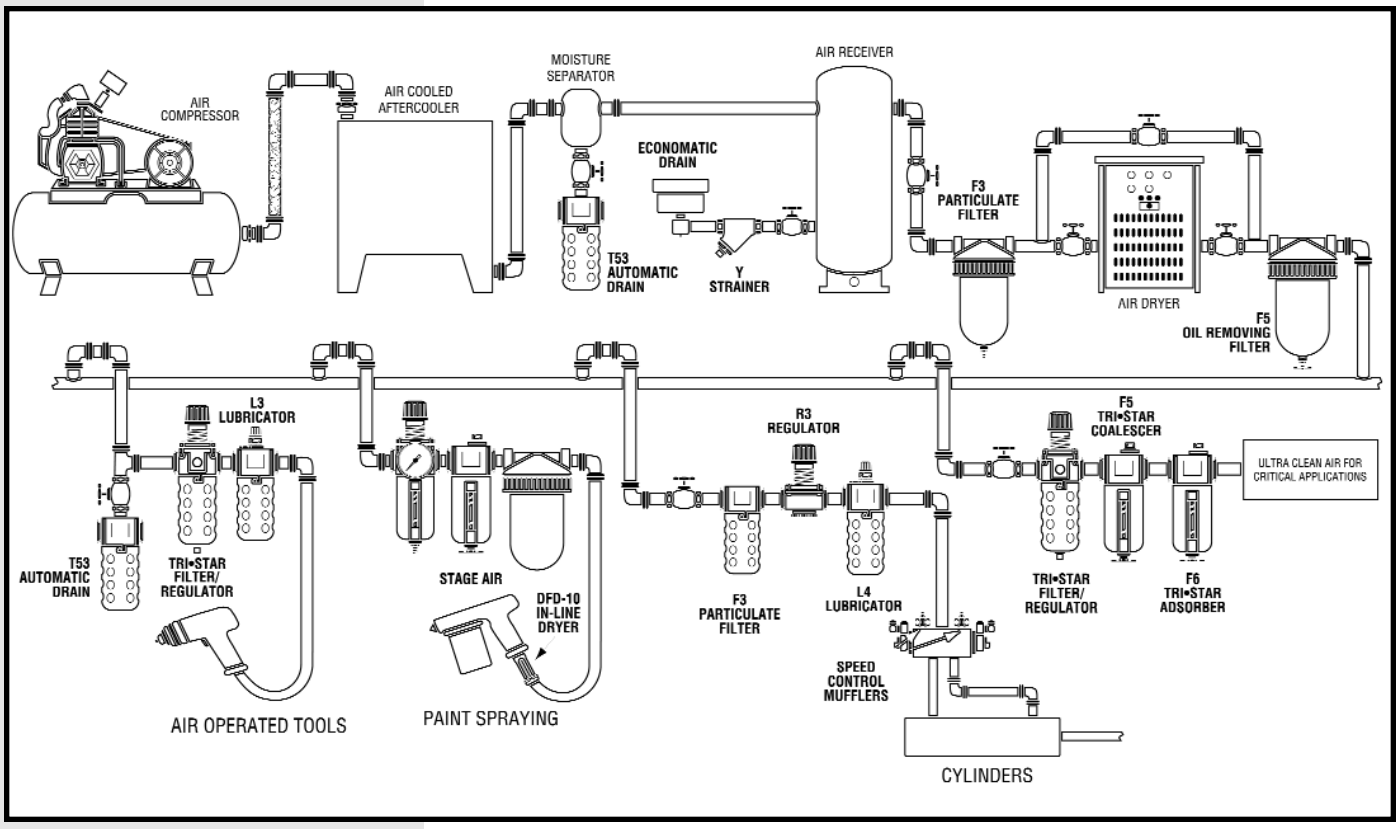
AIR DRYERS
Water in a compressed air system, if not removed, can damage production machinery, rust pipes, shorten component life, clog air lines and reduce air flow, resulting in costly downtime and defective product. Dryers remove water vapor from the air. Installing a dryer removes this water vapor before it condenses in the line or in downstream equipment.

FILTERS
Particulate filters remove harmful oil and water condensate, pipe scale, dirt and rust from your compressed air system. This prevents corrosive damage to compressed air equipment and finished products. Typically, particulate filters are installed upstream of regulators to prevent valve failure. They are also used as pre-filters to oil removing and coalescing filters to insure high efficiency and long element life in applications such as paint spraying, instrumentation and pharmaceuticals.

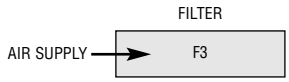
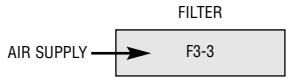
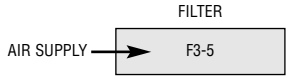
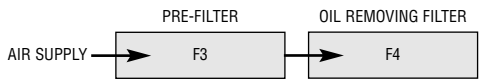
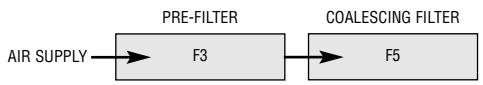
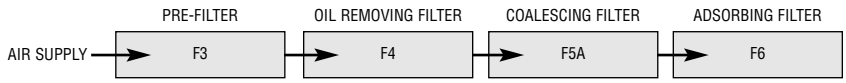
Certain pneumatic systems require air virtually free of oil and oil vapors. In these instances, oil removal may be achieved with the use of a coalescing filter.

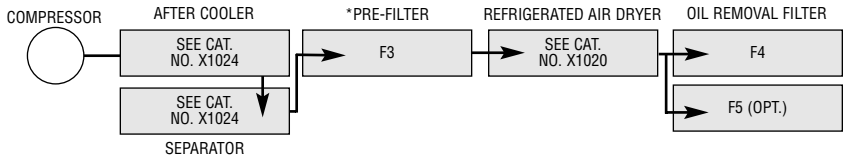
REGULATORS
Pneumatic equipment that operates at higher than recommended pressure can cause excess torque, force and wear and can waste compressed air. Operating below specified pressure can cause machines to fail to meet their design performance specifications. Therefore, precise air pressure control is essential to efficient operation of air-powered equipment. An air line regulator is a specialized control valve which reduces upstream supply pressure level to a specified constant downstream pressure.

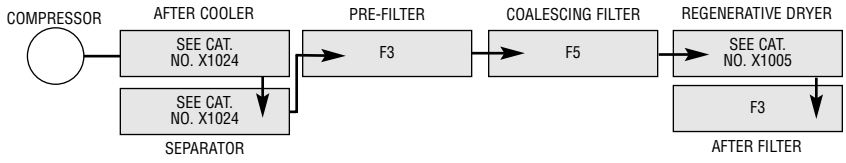
LUBRICATORS
Most pneumatic system components and most pneumatic tools require oil lubrication for proper operation and long service life. Too little oil can cause excessive wear and premature failure. Too much oil is wasteful and can become a contaminant, particularly when carried over with the air exhaust. Pneumatic equipment can be lubricated by the use of an air-line lubricator. Filtered and regulated air enters the lubricator and is mixed with oil in an aerosol mist. The lubricated air is then routed to the operating system.



FILTRATION SELECTION CHART

APPLICATION	FEATURES	SUGGESTED INSTALLATION AT POINT OF USE
• General Industrial	• General Purpose Liquid Removal and Particle Removal with Low Pressure Drop and Long Life	
	• General Purpose Liquid Removal with Extra Fine Particle Retention	
	• General Purpose Liquid Removal with Fine Particle Retention and Less Pressure Drop	
• General Industrial Use where Oil Exists in Supply • Air Cylinders, Valves, Motors • Pneumatic Machinery • General Paint Spraying	• Oil Removal with Long Element Life and Sub Micron Particle Retention	
• Instrumentation • Blow Molding • Air Blowing on Finished Product • Bottling Industry • Paint Spraying (critical)	• High Efficiency Oil and Water Removal and Sub Micron Particle Retention	
• Critical Instrumentation • Food/Dairy/Beverage • Clean Rooms • Pharmaceutical	• High Efficiency Oil Removal, Sub Micron Particle Retention; and Oil Vapor and Odor Removal	

APPLICATION	FEATURES	SUGGESTED INSTALLATION WHEN USED WITH REFRIGERATED AIR DRYERS
• Any Industrial Location that Cannot Tolerate Moisture or Oil Residue in Compressed Air • Spray Painting • Pneumatic Machinery • Climate Control	• Pre-Filter Removes Bulk Liquid and Particulate Matter which may Clog or Harm Heat Exchanger • Oil Removal Filters Remove Oil Carryover not Removed by Dryer	

APPLICATION	FEATURES	SUGGESTED USE WHEN USED WITH REGENERATIVE DESICCANT DRYERS
• Outside Dryer Locations • Instrument Air with Extra Low Dewpoints • Micro Processor Industry • Replacement of Nitrogen	• Separator and Pre-Filter Remove Bulk Liquid and Oil Residue which Contaminates Desiccant • After Filter Removes Fine Desiccant Dust Carryover	

TECHNICAL DATA

ARROW FILTER SERIES	USAGE	SUFFIX		PARTICLE SIZE REMOVAL	D.O.P. EFFICIENCY	REMAINING OIL CONTENT BY WEIGHT (Intake of 50 ppm)	DRY PRESSURE DROP	MATERIAL
Series F3 Particulate	Bulk Liquid (Water, Oil) and Particle Removal	___3 ___5 Std	Extra Fine Fine General	3 µ ABSOLUTE 5 µ NOMINAL 40 µ NOMINAL			5 psig at Nominal Rated Flow for Std. Element	Cellulose Porous Bronze Porous Bronze
Series F4 Oil Removal Coalescing Style	Economical Liquid Oil and Oil Aerosol Removal	Std	General	.9 µ	95%	2.5 ppm	.5 to 2.5 psig	Borosilicate Micro Glass Fibers
Series F5 Coalescing Style	High Efficiency Removal of Water, Oil Aerosols; Plus Sub Micron Particle Retention	A Std	Extra High Efficiency High Efficiency	.01 µ .03 µ	99.9999% 99.97%	.0005 ppm .015 ppm	.5 to 2.5 psig	Borosilicate Micro Glass Fibers
Series F6 Adsorbing, Charcoal Impregnated Coalescing Style	Removal of Oil Vapors and Oil Associated Odors as well as Solid Particulate Contaminates. Requires F5A Pre-Filter	Std			90%	.0001 ppm	.5 to 2.5 psig	Borosilicate Micro Glass Fibers Impregnated with Activated Charcoal Particles

Arrow Pneumatics

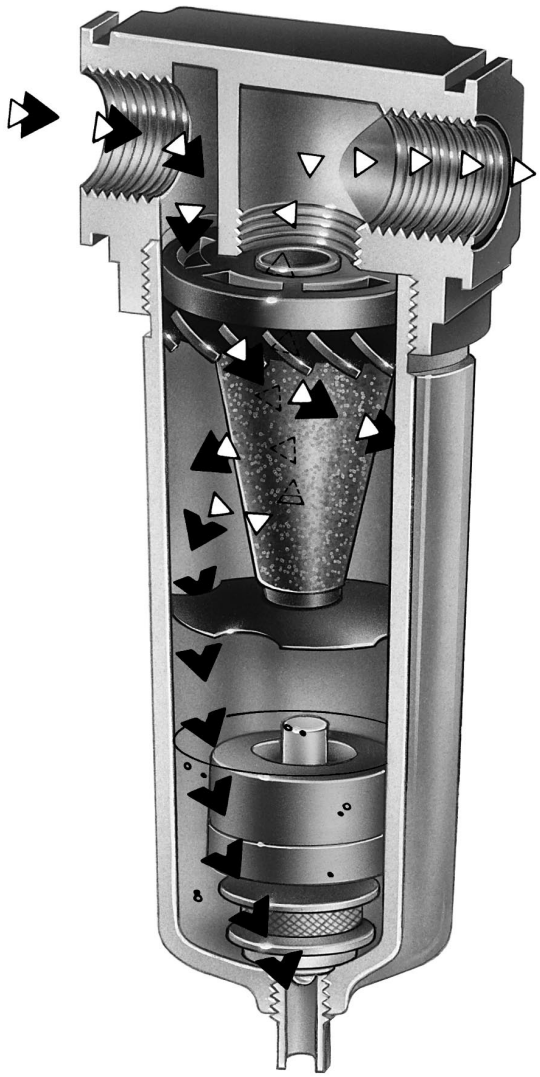
PARTICULATE FILTERS

F3

Arrow F3 series particulate filters remove harmful oil/water condensate, pipe scale, dirt and rust from your compressed air system. This prevents corrosive damage to compressed air equipment and finished products. Typically, particulate filters are installed upstream of regulators to prevent valve failure. They are also used as pre-filters to oil removing and coalescing filters to insure high efficiency and long element life in applications such as paint spraying, instrumentation and pharmaceuticals.

Each filter is equipped with a highly efficient baffling system for maximum bulk liquid and dirt particle removal. The Arrow heavy-duty, cleanable porous bronze element removes fine particles. Particle removal can be tailored to specific needs with either the 40 or 5 micron bronze element. An optional 3 micron absolute pleated fiber element is also offered for extra-fine particle removal.

The Arrow 3 micron absolute element is a high efficiency filter element with solid particulate removal in the 90% efficiency range down to .28 microns. The Beta efficiency rating is 99.5%. The element is constructed of pleated cloth fibers and rib supports for strength. Both ends have urethane 50 durometer elastomer seals to insure particulate entrapment. The pleated fiber design gives this element 10 times the surface area of similar nominal rated elements. This increased surface area provides a long element life and the same pressure drop characteristics as our current 40 micron element. When used as a pre-filter to a coalescing filter, it will increase the life of the coalescing element by 4 to 6 times.



LEGEND

- – Air Containing Liquid and Particulate
- ▽ – Clean Air
- – Liquid and Particulate

IMPORTANT: Particulate filters only remove water in its liquid state. Water vapors will pass through a particulate filter and condense into liquid as the temperature in the air line drops. Liquid condensation may have a harmful effect on certain applications. We recommend installing an ARROW dryer for complete removal of liquid condensation from the system.

Miniature Particulate Filters

F3

FEATURES
- 20 micron sintered bronze element
- High strength, recleanable
- 1 oz. polycarbonate bowl
- Manual 1/8" NPT twist drain

OPTIONS
add suffix to part number in alpha and numeric order

Overnight Drains
An overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less. It then closes when pressure rises to 6 psig.

J Overnight drain for polycarbonate bowl F300-01**J**
Push to manually drain.

K Overnight drain for metal bowl F300-01**KM**
Twist to manually drain.

M Metal bowl F300-01**M**

Z Piston drain F300-01**Z**

-5 5 micron element F300-01**-5**

SPECIFICATIONS
WARNING! *Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl.*

Polycarbonate Bowl
- Max. pressure 150 psig
- Operating temperature range 40˚F to 125˚F

Metal Bowl
- Black E coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Piston Drain
Note: Z option is differential drain which opens & ejects water only when a differential pressure is created at the start of air flow. The piston drain lifts up (approx. 1 second) & closes, it will not operate again until the flow stops, then starts back up again.
- Max. pressure 175 psig
- Operating temperature range 40˚F to160˚F

Body black E coated zinc
Baffle plastic
Seals Buna N

Elements
- 20 micron sintered bronze
- 5 micron sintered bronze

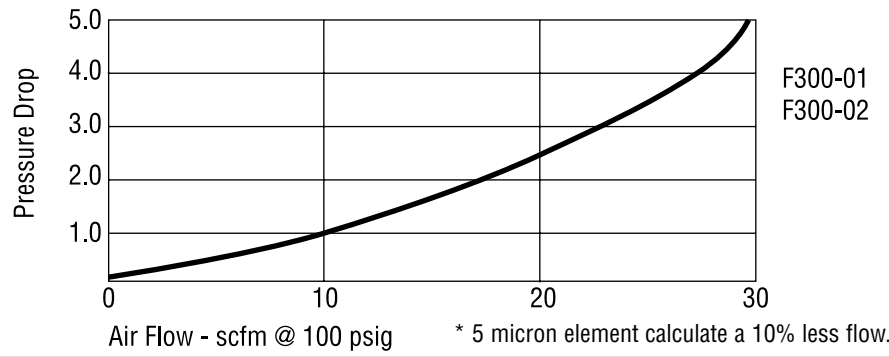
KITS
Bowl Kits
- Polycarbonate BKF300
- Polycarbonate with overnight drain BKF300J
- Metal BKF300M

Element Kits
- 20 micron 2-pack EKF300
- 5 micron 2-pack EKF300-5

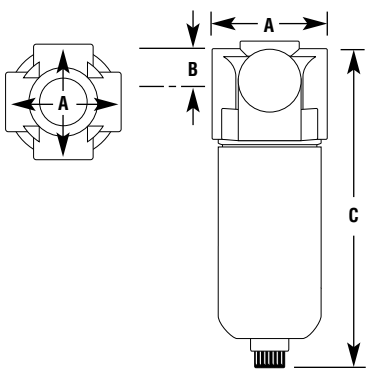
Drain Kit
- Piston drain kit PKF300

- Mounting Bracket FBK3

PERFORMANCE CHARACTERISTICS FOR 20 MICRON ELEMENT



* 5 micron element calculate a 10% less flow.



DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
1/8"	F300-01	27	1 oz.	1 1/2	1/2	4 5/8	.5
1/4"	F300-02	27	1 oz.	1 1/2	1/2	4 5/8	.5

* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

Tri•Star Particulate Filters

OPTIONS

add suffix to part number in alpha and numeric order

Float Drain

An internal float rises as condensate accumulates in a filter bowl to activate the drain.

F Internal float drain. F352**F**

Overnight Drains

An overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less.

J Overnight drain for polycarbonate bowl F352**J**
Push to manually drain.

K Overnight drain for metal bowl F352**KM**
Twist to manually drain.

M Black coated metal bowl F352**M**

W Black coated metal bowl with sight F352**W**

-5 5 micron element F352**-5**

-3 3 micron absolute element . F352**-3**

Z Piston drain F352**-Z**
(Polycarbonate bowl only)

SPECIFICATIONS

WARNING! *Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl.*

Polycarbonate Bowl
- Max. supply pressure 150 psig
- Operating temperature range 40˚F to 125˚F

Metal Bowl
- Zinc, blackE coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight
- Zinc, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

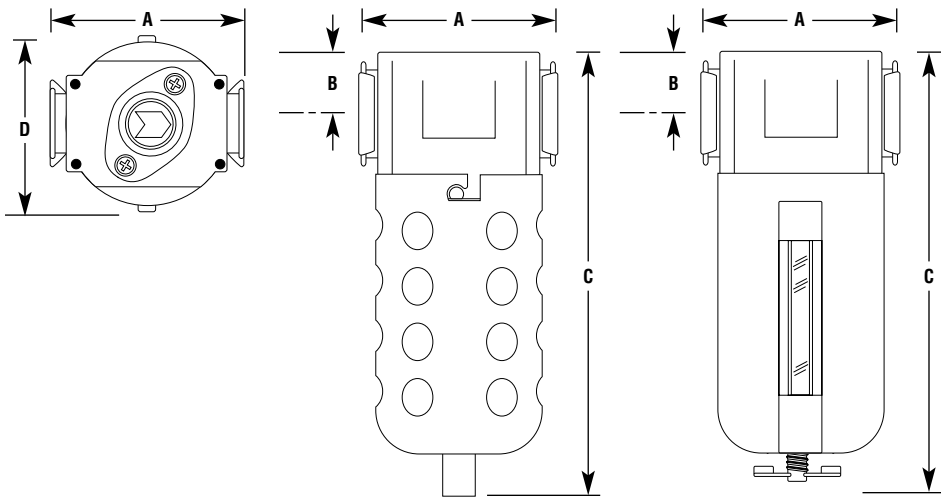
Internal Float Drain
- Buna N float

Note: limits bowl temperature and pressure rating
- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Body black E coated aluminum
Bowl Guard nickel plated steel
Baffle plastic
Vane plastic
Seals Buna N

FEATURES

- 40 micron sintered bronze element offers depth filtration. High strength, recleanable
- 5 oz. polycarbonate bowl with nickel plated steel bowl guard
- Manual push drain on polycarbonate bowl
- In-line or modular installation
- Manual 1/8” twist drain on metal bowls



F3

Elements
- 40 micron sintered bronze standard
- 5 micron sintered bronze
- 3 micron absolute pleated fiber

KITS
- Internal float drain kit 5200

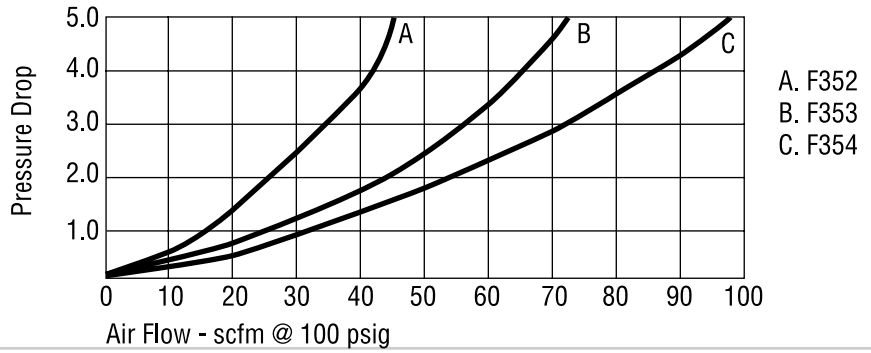
Bowl Kits
- Polycarbonate with guard . . . BKF35
- Black coated metal BKF45M
- Black coated metal with sight BKF45W

Element Kits
- 40 micron 2-pack EK35
- 5 micron 2-pack EK35-5
- 3 micron absolute 2-pack . . EK35-3

Repair Kits
- Repair kit RKF35
- Replacement sight kit WK45

Mounting Kit see page 65
- Mounting kit FBK5

PERFORMANCE CHARACTERISTICS FOR 40 MICRON ELEMENT



* 5 micron element reduces flow by 10%

DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
1/4″	F352	48	5 oz.	2 3/4	3/4	6 1/4	2 1/2	1.2
3/8″	F353	75	5 oz.	2 3/4	3/4	6 1/4	2 1/2	1.2
1/2″	F354	100	5 oz.	2 3/4	3/4	6 1/4	2 1/2	1.2
1/4″	F352W	48	6 oz.	2 3/4	3/4	6 7/8	2 1/2	1.7
3/8″	F353W	75	6 oz.	2 3/4	3/4	6 7/8	2 1/2	1.7
1/2″	F354W	100	6 oz.	2 3/4	3/4	6 7/8	2 1/2	1.7

* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

3 Micron Absolute

The new Arrow 3 micron absolute element is a high efficiency particulate removal element. Unlike nominal rated particulate elements, the 3 micron absolute is qualified to an efficiency rating of 99.5% **solid particulate removal** at 3 microns, and maintains 95% efficiency ratings to .3 microns.

PARTICLE SIZE	REMOVAL EFFICIENCY RATING*	
	5 MICRON NOMINAL	ARROW 3 MICRON ABSOLUTE
.3 μ	19.2%	95.0%
.5 μ	28.8%	97.6%
1.0 μ	35.1%	97.6%
3.0 μ	89.7%	99.5%

* Beta Filtration Rating β3 = 200

Features:
- Element media is cellulous and synthetic fibers with a resin binder. The pleated design has 10 times the surface area of sintered nominal rated elements and increases particle collection.
- End seals consist of 50 durometer Urethane to prevent solid particulate leakage past the element.
- Solid rib supports add extra strength and prevent element collapse under high differential pressure loads.
- Flow and pressure drop identical to 40 micron element.

Applications:
- Air gauging equipment
- Instrument air
- After filter for desiccant dryer

MidFlow Particulate Filters

F3

FEATURES
- 40 micron sintered bronze element offers depth filtration. High strength, recleanable
- 10 oz. or 20 oz. black coated metal bowl with liquid level sight
- Manual 1/8" NPT twist drain
- High Flow, low pressure drop

OPTIONS
add suffix to part number in alpha and numeric order

Float Drain

An internal float rises as condensate accumulates in a filter bowl to activate the drain.

F Internal float drain F373**FW**

Overnight Drains

An overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less. It then closes when pressure rises to 6 psi.

K Overnight drain F373**KW**
Twist to manually drain.

M Metal bowl without sight glass F373**M**

5 5 micron element F373W**5**

3 3 micron absolute element . F373W**3**

SPECIFICATIONS

Metal Bowl
- Zinc, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with sight
- Zinc, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Internal Float Drain
- Buna N float

Note: limits bowl temperature and pressure rating
- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Body black E coated aluminum
Baffle plastic
Seals Buna N
Vane plastic

Elements
- 40 micron sintered bronze
- 5 micron sintered bronze
- 3 micron absolute pleated fiber

KITS
- Internal float drain kit 5200

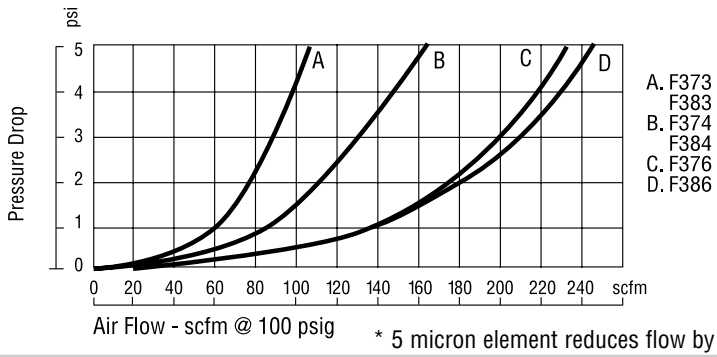
Bowl Kits
- Metal with sight BKF47W BKF48W
- Metal without sight BKF47M BKF48M

Element Kits
- 40 micron. EK37, EK38
- 5 micron EK37-5, EK38-5
- 3 micron absolute EK37-3, EK38-3

Repair Kits
- Repair kit RKF37 RKF38
- Replacement sight kit WK47

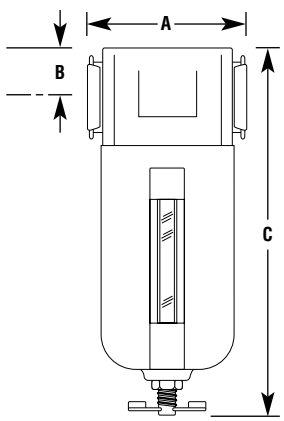
Mounting Kit see page 65
- Mounting kit FBK7

PERFORMANCE CHARACTERISTICS FOR 40 MICRON ELEMENT



Air Flow - scfm @ 100 psig

* 5 micron element reduces flow by 10%.



DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
3/8"	F373W	110	10 oz.	3 3/4	1 3/32	7 5/8	2.7
3/8"	F383W	110	20 oz.	3 3/4	1 3/32	10 7/8	3.8
1/2"	F374W	160	10 oz.	3 3/4	1 3/32	7 5/8	2.7
1/2"	F384W	165	20 oz.	3 3/4	1 3/32	10 7/8	3.8
3/4"	F376W	230	10 oz.	3 3/4	1 3/32	7 5/8	2.7
3/4"	F386W	245	20 oz.	3 3/4	1 3/32	10 7/8	3.8

* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

High Flow Particulate Filters

F3

FEATURES

- 40 micron sintered bronze element offers depth filtration. High strength, recleanable.
- Metal bowl is standard with liquid level sight
- Manual 1/8" NPT twist drain

OPTIONS

add suffix to part number in alpha and numeric order

D Differential pressure gauge . F329-10**DW**

Float Drain

An internal float rises as condensate accumulates in a filter bowl to activate the drain.

F Internal float drain. F329-08**F**W

Overnight Drains

An overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less. It then closes when pressure rises to 6 psi.

K Overnight drain
for metal bowl F329-08**K**W
Twist to manually drain

5 5 micron element F329-08W**5**

3 3 micron absolute element . F329-08W**3**

For Metal Bowl without sight delete W

SPECIFICATIONS

Metal Bowl

- Steel, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with sight

- Steel, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Internal Float Drain

- Buna N float
- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Body black E coated aluminum
Baffle plastic
Seals Buna N
Vane aluminum

Elements

- 40 micron sintered bronze
- 5 micron sintered bronze
- 3 micron absolute pleated fiber

KITS

- Internal float drain. 5200

Bowl Kits

- Metal with sight BKF329W
- Metal without sight BKF329M

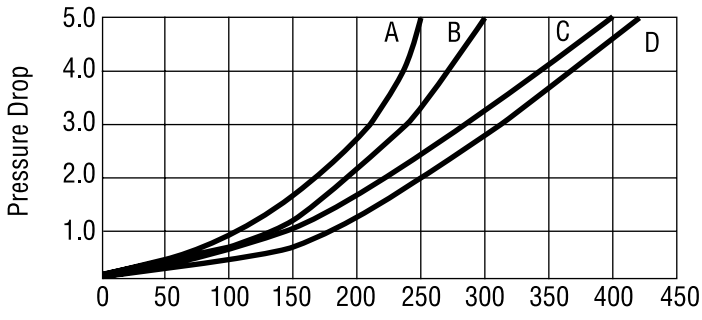
Element Kits

- 40 micron. EKF329
- 5 micron EKF329-5
- 3 micron absolute EKF329-3

Repair Kits

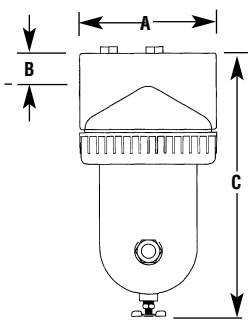
- Repair kit RKF329
- Replacement sight kit WK35

PERFORMANCE CHARACTERISTICS

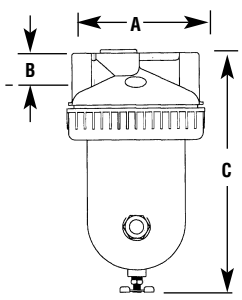


A. F329-06
B. F329-08
C. F329 10
D. F329-12

* 5 micron element reduces flow by 10%



F329-10W, F329-12W



F329-06W, F329-08W

DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
3/4"	F329-06W	260	29 oz.	5 5/32	1 3/16	9 13/32	3.7
1"	F329-08W	300	29 oz.	5 5/32	1 5/16	9 13/32	3.7
1 1/4"	F329-10W	400	29 oz.	5 1/4	1 1/2	10 11/32	6.3
1 1/2"	F329-12W	425	29 oz.	5 1/4	1 1/2	10 11/32	6.3

* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

High Flow Particulate Filters

F3

FEATURES
- 40 micron pleated fiber element offers depth filtration. High strength, recleanable.
- Metal bowl is standard
- 1/8" NPT twist drain

OPTIONS
add suffix to part number in alpha and numeric order

D Differential pressure gauge . F358HF-08**D**

Float Drain
An internal float rises as condensate accumulates in a filter bowl to activate the drain.

F Internal float drain. F358HF-08**F**

Overnight Drains
An overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less.
It then closes when pressure rises to 6 psi.

K Overnight drain F358HF-08**K**
Twist to manually drain.

W Metal bowl with sight glass. F358HF-08**W**

-3 3 micron absolute element. F358HF-08-**3**

SPECIFICATIONS

Metal Bowl
- Steel, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with sight
- Steel, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Internal Float Drain
- Buna N float
- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Body black E coated aluminum
Baffle plastic
Seals Buna N
Vane aluminum

Elements
- 40 micron pleated fiber
- 5 micron pleated fiber
- 3 micron absolute pleated fiber

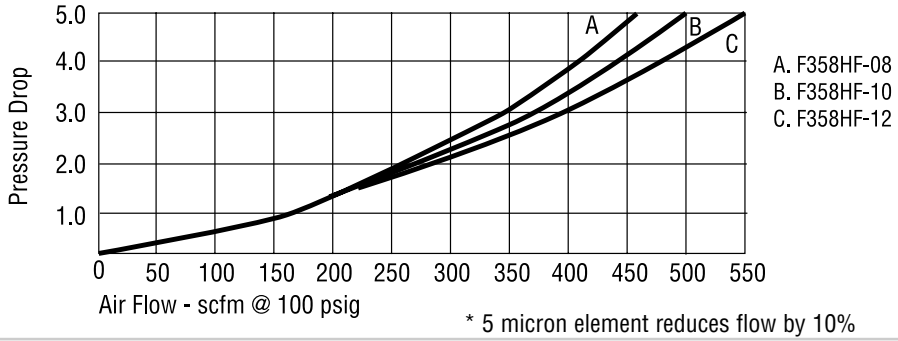
KITS
- Internal float drain. 5200

Bowl Kits
- Metal with sight BKF364W
- Metal without sight BKF364

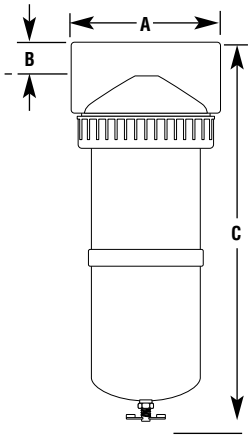
Element Kits
- 40 micron. EKF358
- 3 micron EKF358-3

Repair Kits
- Repair kit RKF508
- Replacement sight kit WK35

PERFORMANCE CHARACTERISTICS FOR 40 MICRON ELEMENT



* 5 micron element reduces flow by 10%



DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
1″	F358HF-08	50 oz.	460	5¼	1½	14½	11
1¼″	F358HF-10	50 oz.	500	5¼	1½	14½	9
1½″	F358HF-12	50 oz.	550	5¼	1½	14½	7.8

* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

High Flow Particulate Filters

F3

FEATURES
- 40 micron standard element offers depth filtration for 1½″ and 2″. High strength, recleanable.
- Metal bowl is standard
- 1/4" NPT twist drain

OPTIONS
add suffix to part number in alpha and numeric order

D Differential pressure gauge . F3N1-12**D**
T External Float Drain F3N1-12**T**
W Metal bowl with sight glass. F3N1-12**W**
-3 3 micron absolute element F3N1-12-**3**

SPECIFICATIONS
Metal Bowl
- Black coated aluminum
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with sight
- Black coated aluminum
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Body black coated aluminum
Baffle plastic
Seals Buna N

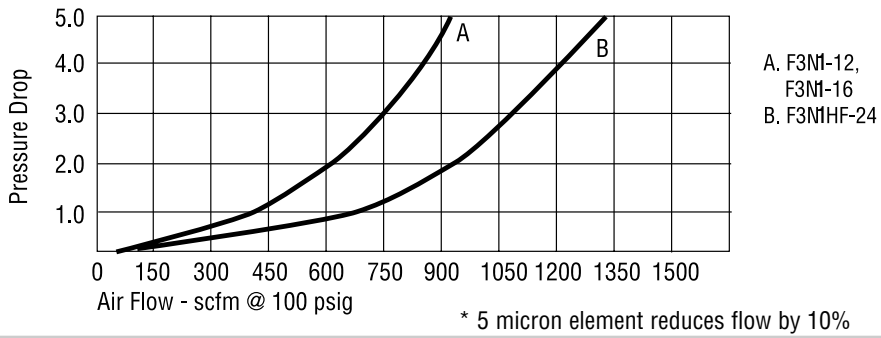
KITS
- Float for External Drain 5200

Bowl Kits
- Metal with sight BKF510W
- Metal without sight BKF510
- Metal with sight BKF518W
- Metal without sight BKF518

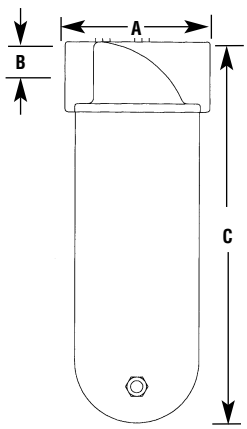
Element Kits
- 40 micron EKF3N1
- 3 micron EKF3N1-3
- 40 micron EKF3NHF
- 3 micron EKF3NHF-3

Repair Kits
- Repair kit RKF3N1 RKF519
- Replacement sight kit BSF510

PERFORMANCE CHARACTERISTICS FOR 40 MICRON ELEMENT



* 5 micron element reduces flow by 10%



DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
1½″	F3N1-12	100 oz.	910	6½	2	17¾	13
2″	F3N1-16	100 oz.	910	6½	2	17¾	13
3″	F3NHF-24	200 oz.	1300	7⅝	2¼	27½	18

* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

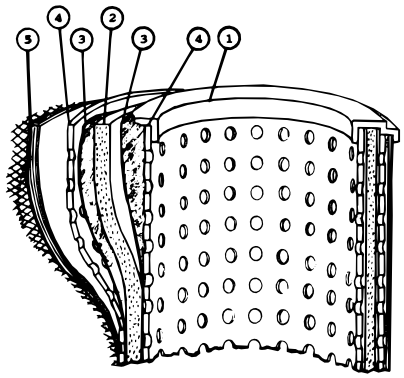
COALESCING FILTERS

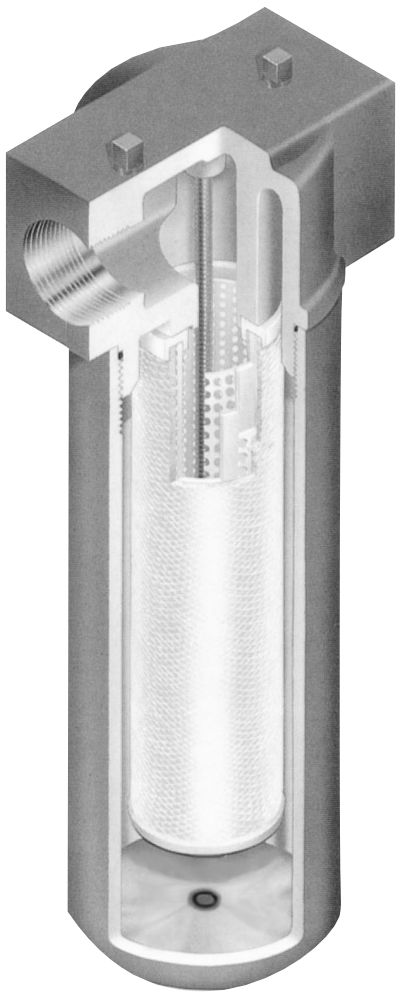
A coalescing filter functions in a different way from a standard particulate filter. Air flows from inside to outside through a coalescing media. Coalescing, by definition, means "to come together". It is a continuous process by which small aerosols come in contact with the fibers in the filter media, uniting with other collected aerosols and growing to emerge as a droplet on the downstream surface of the media which by its weight is gravitationally drained away. For maximum performance and efficiency, coalescing filters should be preceded by an F3 particulate filter.

F4 oil removing filters offer general industrial filtration with low pressure drop and long element life. They are often used with older compressors where downstream oil carryover is excessive and when longer element life and low pressure drop are a concern.

F5 coalescing filters are used for high filtration of oil aerosols and sub micron particles. They are often used with critical instrumentation; paint spraying equipment; more sophisticated air systems; blow molding bottling; in the food industry, and where air blows on a finished product. The .01 micron grade "A" element is offered for the most critical filtration applications, such as those found in clean rooms.

F6 adsorber filters were engineered specifically for critical applications that will not tolerate the presence of oil vapors. If the compressed air has been prepared by a suitable refrigerated dryer and F5 oil removing filter, the F6 Adsorber will insure oil concentrations of .01 PPM by weight. In all cases, an F5A coalescing filter must precede an F6 Adsorber filter. To prevent any particle migration downstream, an F3 with 3 micron element should be installed downstream for total system protection.





1) Molded, bonded urethane rubber end seals, seal on face and bore to ensure that all aerosols will pass through media.

2) High efficiency borosilicate glass fiber media coalesces and removes finest oil aerosols, Arrows unique tapered layer structure reduces wet pressure drop and extends element life.

3) The borosilicate core is additionally protected by polyester wraps before and after the core to prevent bulging through the support ribs under load.

4) Chemical resistant plastic inner and outer support ribs strengthen element structure and prevent damage to the element under high differential pressures and reverse flow conditions.

5) Fiberglass drain layer provides drainage vehicle, prevents reentrainment of droplets, and is not affected by synthetic oils and high temperatures. Outer netting prevents drain layer bulging and is color coded to identify element type.

IMPORTANT: Oil captured by Arrow Coalescing Filters will not retrain and move downstream.

Tri•Star Oil Removing Filters

F4

FEATURES
- .9 micron element
- Low pressure drop
- Long element life
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- 6 oz. black coated metal bowl with liquid level sight
- Manual 1/8" NPT twist drain
- In-line or modular installation

OPTIONS
add suffix to part number in alpha order

Float Drain
F Internal float drain F452**F**W

For Metal Bowl without sight delete W

SPECIFICATIONS
Metal Bowl
- Zinc, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight
- Zinc, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Internal Float Drain Note: limits bowl temperature and pressure rating.
- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Element
- .9 micron borosilicate glass fiber D.O.P. Efficiency: 95%, Particle size removal, Remaining oil content by wt.: 2.5 PPM

Body black E coated aluminum
Baffle plastic
Seals Buna N

KITS
- Internal float drain. 5200

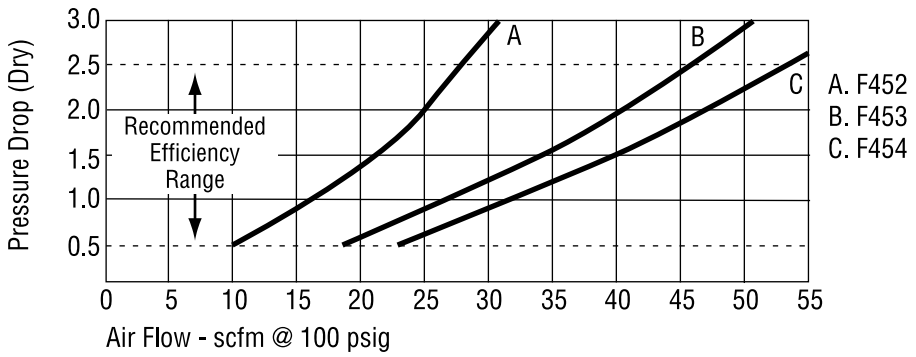
Bowl Kits
- Metal bowl without sight BKF45M
- Metal bowl with sight BKF45W

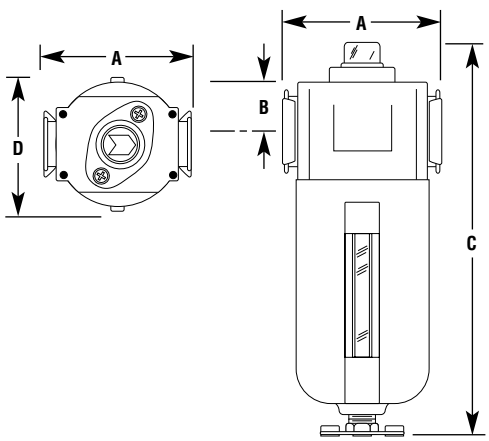
Element Kit
- .9 micron 2-pack. EK45

Repair Kits
- Repair kit RKF45
- Replacement sight kit WK45
- Indicator pop-up kit DPK-05

Mounting Kit see page 65
- Mounting kit FBK5

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
1/4"	F452W	27	6 oz.	2 3/4	3/4	7 5/8	2 1/2	1.7
3/8"	F453W	45	6 oz.	2 3/4	3/4	7 5/8	2 1/2	1.7
1/2"	F454W	53	6 oz.	2 3/4	3/4	7 5/8	2 1/2	1.7

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

MidFlow Oil Removing Filters

F4

FEATURES
- .9 micron element
- Low pressure drop
- Long element life
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- 10 oz. or 20 oz. black coated metal bowl with liquid level sight
- Manual 1/8" NPT twist drain

OPTIONS
add suffix to part number in alpha order

Float Drain

F Internal float drain F473**FW**

M Metal bowl without sight glass F473**M**

SPECIFICATIONS

Metal Bowl
- Zinc, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight
- Zinc, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Internal Float Drain
Note: limits bowl temperature and pressure rating.
- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Body black E coated aluminum
Baffle plastic
Seals Buna N

Elements
- .9 micron borosilicate glass filter D.O.P. Efficiency: 95%, Particle size removal, Remaining oil content by wt.: 2.5 PPM

KITS
- Internal float drain. 5200

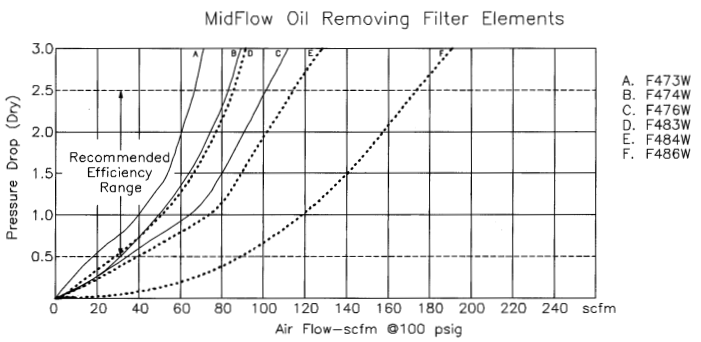
Bowl Kits
- 10 oz. with sight BKF47W
- 10 oz. without sight. BKF47M
- 20 oz. with sight BKF48W
- 20 oz. without sight BKF48M

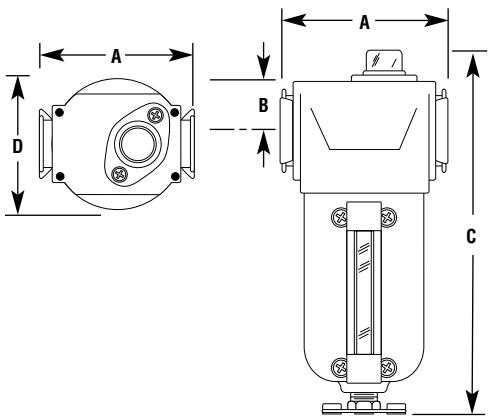
Element Kits
- .9 micron EK47 EK48

Repair Kits
- Repair kit RKF47 RKF48
- Replacement sight kit WK47
- Indicator pop-up kit DPK-05

Mounting Kit see page 65
- Mounting kit FBK7

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
3/8"	F473W	66	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
3/8"	F483W	84	20 oz.	3 3/4	1 1/8	11 1/2	3	3.6
1/2"	F474W	83	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
1/2"	F484W	116	20 oz.	3 3/4	1 1/8	11 1/2	3	3.6
3/4"	F476W	98	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
3/4"	F486W	172	20 oz.	3 3/4	1 1/8	11 1/2	3	3.6

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

High Flow Oil Removing Filters

F4

FEATURES
- .9 micron element
- Manual 1/8" NPT twist drain
- Low pressure drop
- Long element life

OPTIONS
add suffix to part number in alpha and numeric order

D Differential pressure gauge . F408-10**D**

Float Drain

An internal float rises as condensate accumulates in a filter bowl to activate the drain.

F Internal float drain. F405-06**F**W
F408-08**F**W

Overnight Drains

An overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less. It then closes when pressure rises to 6 psi

twist to manually drain F408-08**K**W

For Metal Bowl without sight delete W

SPECIFICATIONS

Metal Bowl
- Steel, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with sight
- Steel, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Internal Float Drain
- Buna N float

Note: limits bowl temperature and pressure rating
- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Body black E coated aluminum
Baffle aluminum
Seals Buna N

Elements
- .9 micron borosilicate glass fiber D.O.P. Efficiciency: 95%, Particle size removal, Remaining oil content by wt.: 2.5 PPM

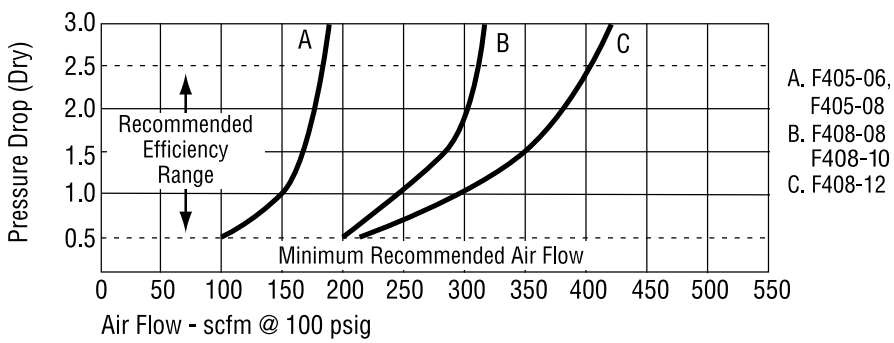
KITS
- Internal float drain kit 5200

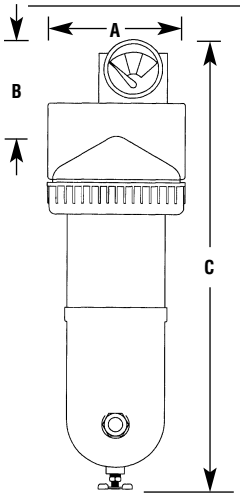
Bowl Kits
- Metal with sight F405 . . . . . BKF329W
- Metal without sight F405. . . . BKF329M
- Metal with sight F408 . . . . . BKF364W
- Metal without sight F408. . . . BKF364

Element Kits
- .9 micron F405 . . . . . EKF405
- .9 micron F408 . . . . . EKF408

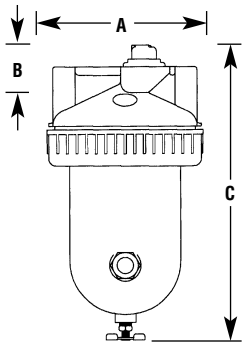
Repair Kits
- Repair kit RKF505
- Repair kit RKF508
- Replacement sight kit 405. . . WK35
- Replacement sight kit 408. . . WK35
- Overnight drain kit . . . . . CKFK
- Sight glass kit. DPK-05

PERFORMANCE CHARACTERISTICS





F408-10DW, F408-12DW
Optional ΔP Guage



F405-06W
F405-08W
F408-08W
(Pop up)
STD:

DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
3/4"	F405-06W	29 oz.	185	4 7/8	1 3/16	9 13/32	3.7
1"	F405-08W	29 oz.	185	4 7/8	1 3/16	9 13/32	3.7
1"	F408-08W	60 oz.	300	4 7/8	1 3/16	14 13/32	6.0
1 1/4"	F408-10W	60 oz.	300	5 5/32	3 3/4	16 3/4	6.3
1 1/2"	F408-12W	60 oz.	400	5 5/32	3 3/4	16 3/4	6.3

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.


Gauge Optional

High Flow Oil Removing Filters

F4

FEATURES
- .9 micron element
- Low pressure drop
- Long element life
- Manual 1/4" twist drain

OPTIONS
add suffix to part number in alpha order

D Differential pressure gauge . F410-08**D**
T External Float Drain F410-08**T**
W Metal bowl with sight glass F410-08**W**

SPECIFICATIONS
Metal Bowl
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with sight
- Black E coated Aluminum
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Body black E coated aluminum
Baffle plastic
Seals Buna N

Element
- .9 micron borosilicate glass filter D.O.P. Efficiciency: 95%, Particle size removal, Remaining oil content by wt.: 2.5 PPM

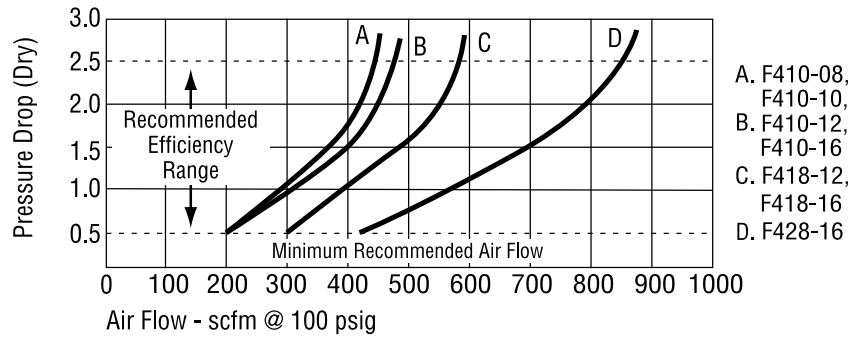
KITS
- Float for External Drain 5200
- Drain Trap Kit DKTF2

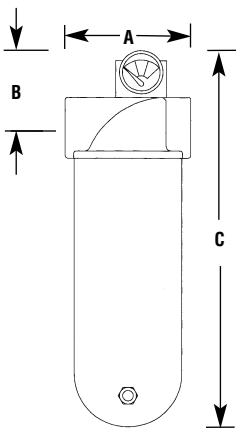
Bowl Kits
- Metal without sight F410. . . . BKF510
- Metal with sight F410 . . . . . BKF510W
- Metal without sight F418. . . . BKF518
- Metal with sight F418 . . . . . BKF518W
- Metal without sight F428. . . . BKF528
- Metal with sight F428 . . . . . BKF528W

Element Kit
- .9 micron EKF410, EKF418, EKF428

Repair Kits
- Repair kit RKF511
- Replacement sight kit BSF510

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
1″	F410-08	100 oz.	420	6½	2	21	16
1¼″	F410-10	100 oz.	420	6½	2	21	16
1½″	F410-12	100 oz.	475	6½	2	21	16
1½″	F418-12	200 oz.	590	6½	2	28¾	19
2″	F410-16	100 oz.	475	6½	2	21	16
2″	F418-16	200 oz.	590	6½	2	28¾	19
2″	F428-16	300 oz.	840	6½	2	39	23

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

High Flow Oil Removing Filters

F4


Gauge Optional

FEATURES
- .9 micron element
- Low pressure drop
- Long element life
- Manual 1/4" twist drain

OPTIONS
add suffix to part number in alpha order

D Differential pressure gauge . F411-24**D**
T External Float Drain F411-24**T**
W Metal bowl
with sight glass F411-24**W**

SPECIFICATIONS
Metal Bowl
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with sight
- Black coated aluminum
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Body black coated aluminum
Baffle plastic
Seals Buna N
Vane plastic

Element
- .9 micron borosilicate glass filter D.O.P. Efficiciency: 95%, Particle size removal, remaining oil content by wt.: 2.5 PPM

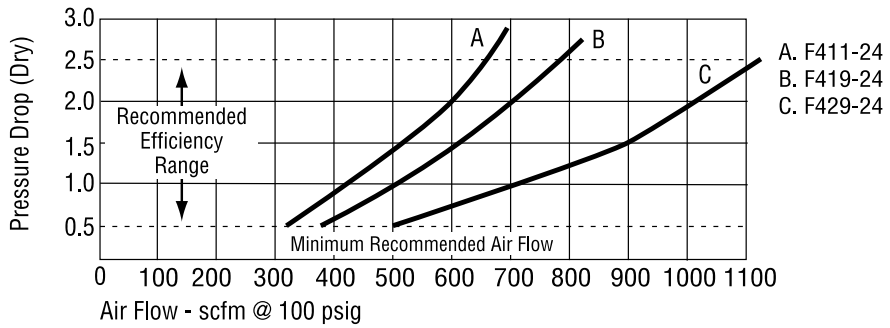
KITS
- Float for External Drain 5200
- Drain Trap Kit DKTF2

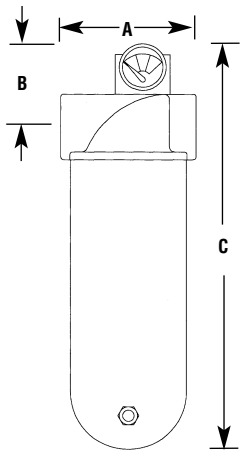
Bowl Kits
- Metal without sight F411. . . . BKF510
- Metal with sight F411 . . . . . BKF510W
- Metal without sight F419. . . . BKF518
- Metal with sight F419 . . . . . BKF518W
- Metal without sight F429. . . . BKF528
- Metal with sight F429 . . . . . BKF528W

Element Kit
- .9 micron EKF411, EKF419, EKF429

Repair Kits
- Repair kit RKF511, RKF519 RKF529
- Replacement sight kit BSF510

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
3″	F411-24	100 oz.	620	$7\frac{5}{8}$	$2\frac{1}{4}$	$22\frac{11}{16}$	21
3″	F419-24	200 oz.	770	$7\frac{5}{8}$	$2\frac{1}{4}$	$31\frac{3}{16}$	24
3″	F429-24	300 oz.	1100	$7\frac{5}{8}$	$2\frac{1}{4}$	$41\frac{7}{16}$	28

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

Miniature Coalescing Filters

F5

FEATURES
- .03 micron fiber element
- 1 oz. polycarbonate bowl
- Manual 1/8" NPT twist drain

OPTIONS
add suffix to part number in alpha order

A .01 micron element F500-02**A**

Overnight Drains

When a compressed air system is shut down, an overnight drain clears accumulated condensate from a filter bowl when the pressure falls to 3 psig or less.

J Overnight drain for polycarbonate bowl F500-02**J**
Push to manually drain.

K Overnight drain for metal bowl F500-02**KM**
Twist to manually drain.

M Metal bowl F500-02**M**

Z Piston drain F500-02**Z**

SPECIFICATIONS

Polycarbonate Bowl
- Max. pressure 150 psig
- Operating temperature range 40˚F to 125˚F

Metal Bowl
- Black E coated Aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Piston Drain

Note: Z option is differential drain which opens & ejects water only when a differential pressure is created at the start of air flow. The piston drain lifts up (approx. 1 second) & closes, it will not operate again until the flow stops, then starts back up again.
- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Body
- Black E coated aluminum

Elements
- .03 micron borosilicate glass fiber D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM
- .01 micron borosilicate glass fiber D.O.P. Efficiency: 99.999%, Particle removal size, Remaining oil content by wt.: .0005 PPM

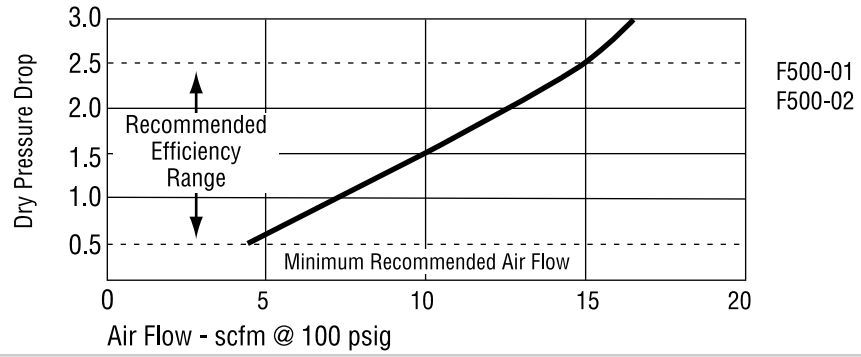
KITS
- Piston drain PKF300
- Overnight Metal (K). . . . . CKFK

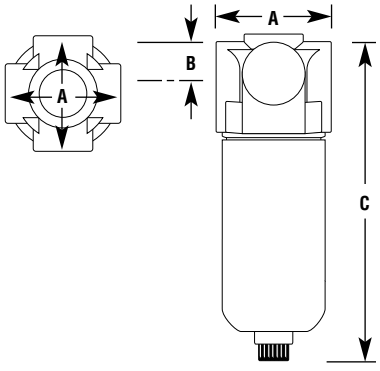
Bowl Kits
- 1 oz. poly. bowl. BKF300
- 1 oz. poly. bowl with piston drain. BKF300J
- 1 oz. metal bowl BKF300M
- 1 oz. metal bowl with overnight drain BKF300KM

Element Kits
- .03 micron 2-pack. EKF500
- .01 micron 2-pack. EKF500A

Mounting Kit see page 65
- Mounting kit FBK3

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
1/8"	F500-01	15	1 oz.	1 1/2	1/2	4 1/2	.5
1/4"	F500-02	15	1 oz.	1 1/2	1/2	4 1/2	.5

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

Tri•Star Coalescing Filters

F5

FEATURES
- .03 micron fiber element
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- Low pressure drop
- 6 oz. black coated metal bowl with liquid level sight
- Black coated aluminum housing
- Manual 1/8" NPT twist drain
- In line or modular installation

OPTIONS
add suffix to part number in alpha order
A .01 micron element F552**AW**

Float Drain
F Internal float drain F552**FW**

For Metal Bowl without sight delete W

SPECIFICATIONS
Body Black E coated aluminum
Baffle plastic
Seals Buna N

Metal Bowl
- Zinc, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight nickel plated zinc
- Zinc, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Internal Float Drain
plastic, metal, brass, Buna N seal
Note: limits bowl temperature and pressure rating
- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Elements
- .03 micron borosilicate glass fiber D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM
- .01 micron borosilicate glass fiber D.O.P. Efficiency: 99.999%, Particle size removal, Remaining oil content by wt.: .0005 PPM

KITS
- Internal float drain kit 5200

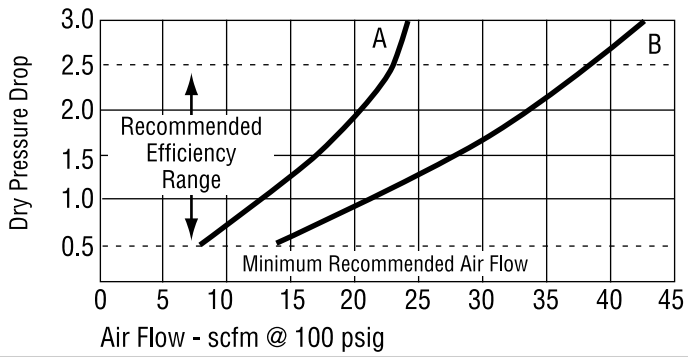
Bowl Kits
- Metal without sight BKF45M
- Metal with sight BKF45W

Element Kits
- .03 micron 2-pack. EK55
- .01 micron 2-pack. EK55A

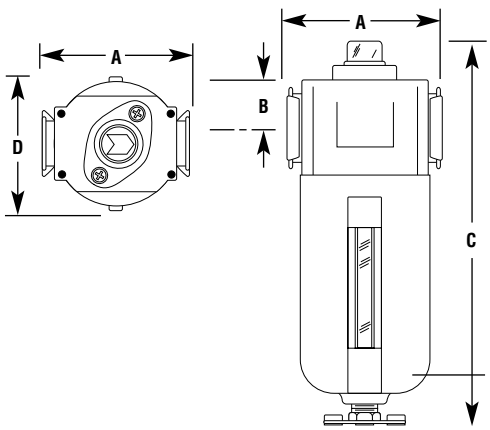
Repair Kits
- Repair kit RKF45
- Replacement sight kit WK35
- Indicator Pop-up kit DPK-05

Mounting Kit see page 65
- Mounting kit FBK3

PERFORMANCE CHARACTERISTICS



A. F552
B. F553
F554



DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
1/4"	F552W	24	6 oz.	2 3/4	3/4	7 5/8	2 1/2	1.7
3/8"	F553W	37	6 oz.	2 3/4	3/4	7 5/8	2 1/2	1.7
1/2"	F554W	37	6 oz.	2 3/4	3/4	7 5/8	2 1/2	1.7

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

MidFlow Coalescing Filters

F5

FEATURES

- .03 micron fiber element
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- Low pressure drop
- 10 oz. or 20 oz. black coated metal bowl with liquid level sight
- Manual 1/8" NPT twist drain

OPTIONS

add suffix to part number in alpha order

A .01 micron element F573**AW**

Float Drain

F Internal float drain F573**FW**

K Overnight drain F573**KW**

M Black coated metal bowl F573**M**

SPECIFICATIONS

Metal Bowl

- Zinc, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight

- Zinc, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Internal Float Drain Note: limits bowl temperature and pressure ratings

- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Body Black E coated aluminum
Baffle plastic
Seals Buna N

Elements

- .03 micron borosilicate glass fiber D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM
- .01 micron borosilicate glass fiber, D.O.P. Efficiency: 99.999%, Particle size removal, Remaining oil content by wt.: .0005 PPM

KITS

- Internal float drain kit 5200
- Overnight Metal (K) . . . . . .CKFK

Bowl Kits

- 10 oz. with sight BKF47W
- 10 oz. without sight. BKF47M
- 20 oz. with sight BKF48W
- 20 oz. without sight BKF48M

Element Kits

- .03 micron EK57
  . . . . . EK58
- .01 micron EK57A
  . . . . . EK58A

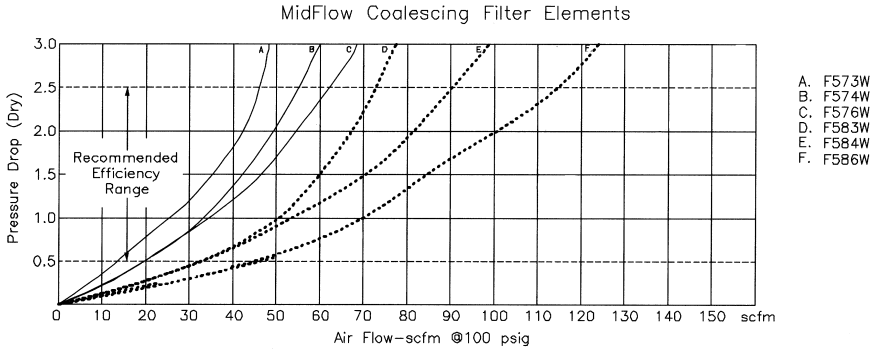
Repair Kits

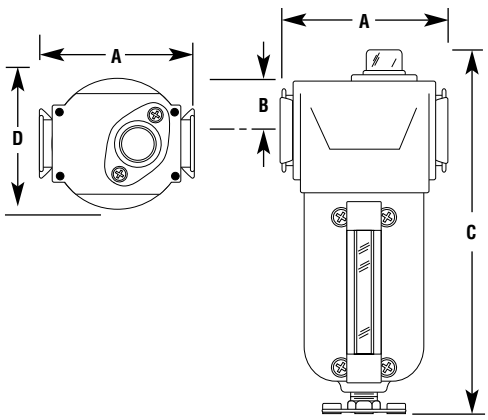
- Repair kit RKF47, RKF48
- Replacement sight kit WK37
- Indicator Pop-up kit DPK-05

Mounting Kit see page 65

- Mounting kit FBK7

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
3/8"	F573W	48	10	3 3/4	1 1/8	8 1/4	3	2.7
3/8"	F583W	72	20	3 3/4	1 1/8	11 1/2	3	3.6
1/2"	F574W	55	10	3 3/4	1 1/8	8 1/4	3	2.7
1/2"	F584W	90	20	3 3/4	1 1/8	11 1/2	3	3.6
3/4"	F576W	60	10	3 3/4	1 1/8	8 1/4	3	2.7
3/4"	F586W	110	20	3 3/4	1 1/8	11 1/2	3	3.6

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

High Flow Coalescing Filters

F5

FEATURES
- .03 micron fiber element
- Manual 1/8" NPT twist drain
- Low pressure drop

OPTIONS
add suffix to part number in alpha and numeric order

A .01 micron element F505-06**A**
D Differential pressure gauge . F508-10**D**

Float Drain
F Internal float drain F505-06**F**W

Overnight Drains
An overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less. It then closes when pressure rises to 6 psi.
Twist to manually drain F508-08**K**W

For Metal Bowl without sight delete W

SPECIFICATIONS
Metal Bowl
- Zinc, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to160˚F

Metal Bowl with sight
- Zinc, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Internal Float Drain
- Buna N float

Note: limits bowl temperature and pressure rating
- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Body black E coated aluminum
Baffle aluminum
Seals Buna N

Elements
- .03 micron borosilicate glass filter D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.:.015 PPM
- .01 micron borosilicate glass filter D.O.P. Efficiency: 99.999%, Particle size removal, Remaining oil content by wt.: .0005 PPM

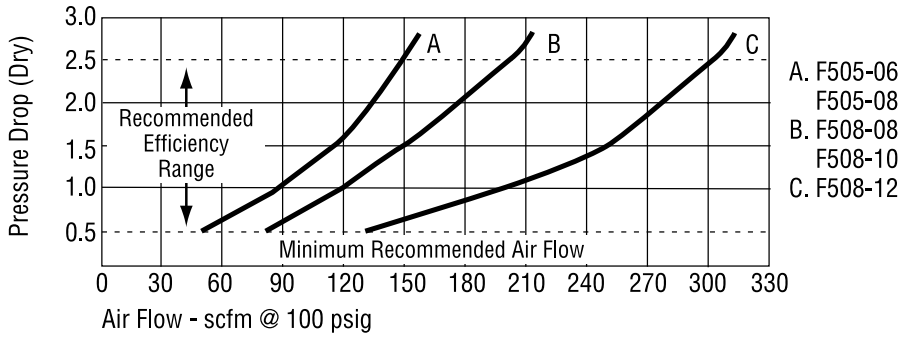
KITS
- Internal float drain kit 5200
- Overnight Drain Kit (K) . . . . . CKFK
- Pop-up indicator kit DPK-05

Bowl Kits
- Metal with sight F505 . . . . . BKF329W
- Metal without sight F505. . . . BKF329M
- Metal with sight F508 . . . . . BKF364W
- Metal without sight F508. . . . BKF364M

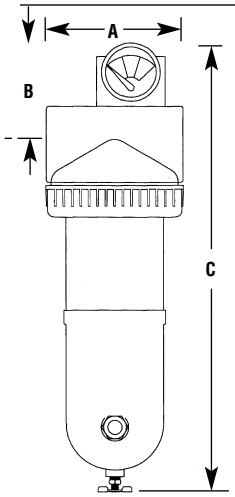
Element Kits
- .03 micron 505 . . . . . EKF505
- .01 micron 505 . . . . . EKF505A
- .03 micron 508 . . . . . EKF508
- .01 micron 508 . . . . . EKF508A

Repair Kits
- Repair kit 505 . . . . . RKF505
- Repair kit 508 . . . . . RKF508
- Replacement sight kit WK35

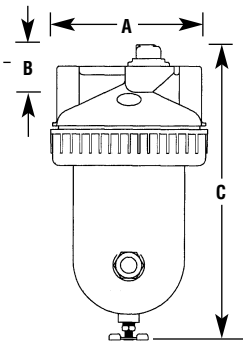
PERFORMANCE CHARACTERISTICS



A. F505-06
F505-08
B. F508-08
F508-10
C. F508-12



F508-10DW, F508-12DW
Optional ΔP Guage



F505-06W
F505-08W
F508-08W
Pop-up standard

DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
3/4″	F505-06W	29 oz.	150	4 7/8	1 3/16	9 13/32	3.7
1″	F505-08W	29 oz.	150	4 7/8	1 3/16	9 13/32	3.7
1″	F508-08W	60 oz.	200	4 7/8	1 3/16	14 13/32	6.0
1 1/4″	F508-10W	60 oz.	200	5 5/32	3 3/4	16 3/4	6.3
1 1/2″	F508-12W	60 oz.	310	5 5/32	3 3/4	16 3/4	6.3

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.


Gauge Optional

High Flow Coalescing Filters

F5

FEATURES
- .03 micron fiber element
- Low pressure drop
- Manual 1/4" NPT twist drain

OPTIONS
add suffix to part number in alpha order

A .01 micron element F510-08**A**
D Differential pressure gauge . F510-08**D**
T External Float Drain F510-08**T**
W Metal bowl with sight glass. F510-08**W**

SPECIFICATIONS

Metal Bowl
- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight
- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Body Black coated aluminum
Baffle plastic
Seals Buna N

Elements
- .03 micron borosilicate glass fiber D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM
- .01 micron borosilicate glass fiber D.O.P. Efficiency: 99.999%, Particle size removal, Remaining oil content by wt.: .0005 PPM

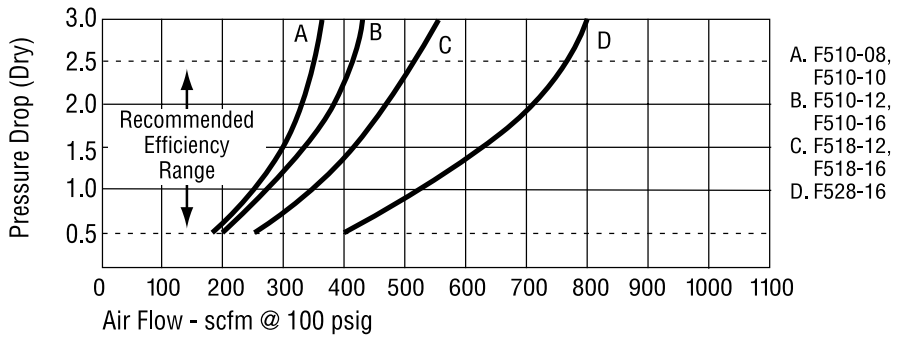
KITS
- Float for External Drain 5200
- Drain Trap Kit DKTF2

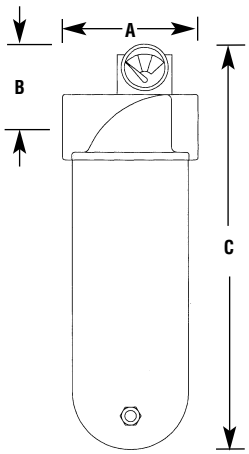
Bowl Kits
- Metal with sight BKF510W
- Metal without sight BKF510
- Metal with sight BKF518W
- Metal without sight BKF518
- Metal with sight BKF528W
- Metal without sight BKF528

Element Kits
- .03 micron . . . . . EKF510, ... EKF518, EKF528
- .01 micron . . . . . EKF510A, ... EKF518A, EKF528A

Repair Kits
- Repair kit RKF511, RKF519, RKF529
- Replacement sight kit BSF510

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
1″	F510-08	100 oz.	310	6 1/2	2	21	16
1 1/4″	F510-10	100 oz.	310	6 1/2	2	21	16
1 1/2″	F510-12	100 oz.	415	6 1/2	2	21	16
1 1/2″	F518-12	200 oz.	515	6 1/2	2	28 3/4	19
2″	F510-16	100 oz.	415	6 1/2	2	21	16
2″	F518-16	200 oz.	515	6 1/2	2	28 3/4	19
2″	F528-16	300 oz.	765	6 1/2	2	39	23

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

High Flow Coalescing Filters

F5

FEATURES
- .03 micron fiber element
- Low pressure drop
- Manual 1/4" NPT twist drain

OPTIONS
add suffix to part number in alpha order

A .01 micron element F511-24**A**
D Differential pressure gauge . . F511-24**D**
T External Float Drain F511-24**T**
W Metal bowl with sight glass. F511-24**W**

SPECIFICATIONS

Metal Bowl
- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight
- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Body Black coated aluminum
Baffle plastic
Seals Buna N

Elements
- .03 micron borosilicate glass fiber D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM
- .01 micron borosilicate glass fiber D.O.P. Efficiency: 99.999%, Particle size removal, Remaining oil content by wt.: .0005 PPM

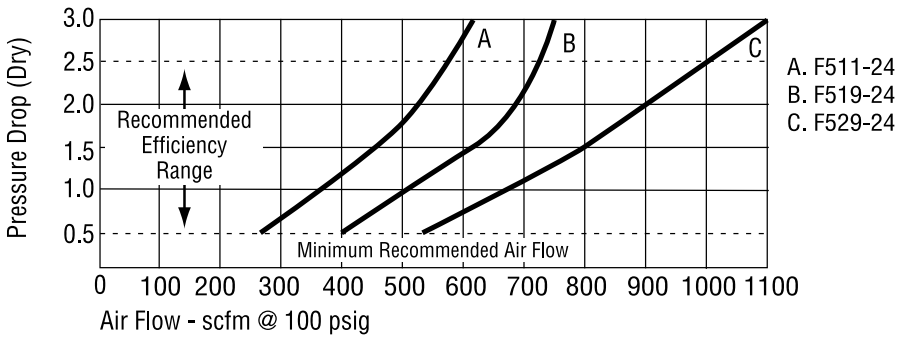
KITS
- Float for External Drain 5200
- Drain Trap Kit DKTF2

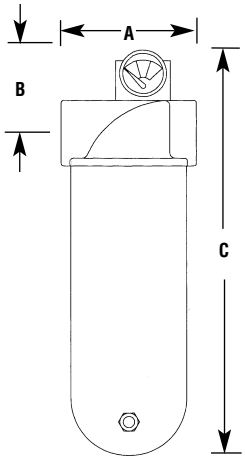
Bowl Kits
- Metal with sight BKF510W
- Metal without sight BKF510
- Metal with sight BKF518W
- Metal without sight BKF518
- Metal with sight BKF529W
- Metal without sight BKF529

Element Kits
- .03 micron EKF511
  Clear net no color EKF519
  EKF529
- .01 micron EKF511A
  EKF519A
  EKF529A

Repair Kits
- Repair kit RKF511
  RKF519
  RKF529
- Replacement sight kit BSF510

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C**	WEIGHT (LBS.)
3″	F511-24	100 oz.	620	7 5/8	2 1/4	22 11/16	21
3″	F519-24	200 oz.	770	7 5/8	2 1/4	31 3/16	24
3″	F529-24	300 oz.	1100	7 5/8	2 1/4	41 7/16	28

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

** Add 3/4" to height (c) if ordered with gauge

Tri•Star Adsorber Filters

F6

FEATURES

- Protects end processes from gaseous oil contamination and rids compressed air of offensive oily odors
- Removes hydrocarbons for use in analytical instruments
- Low pressure drop
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- 6 oz. black coated metal bowl with liquid level sight
- Black coated aluminum housing
- Manual 1/8" NPT twist drain
- In-line or modular installation

OPTIONS

For Metal Bowl without sight delete W

SPECIFICATIONS

Metal Bowl

- Zinc, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight

- Zinc black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Element

- Multi-wrapped layers of impregnated activated charcoal particles to increase purification qualities. If the compressed air has been prepared by a suitable refrigerated dryer and F5A Coalescer filter, the F6 Absorber will insure oil concentrations of .0015 PPM by weight. In all cases, an F5 Coalescer must precede an F6 Absorber. To prevent any particle migration downstream an F3 with 3 micron element should be installed downstream for total system protection.

Body Black E coated aluminum
Baffle plastic
Seals Buna N

Bowl Kits

- Metal bowl without sight BKF45M
- Metal bowl with sight BKF45W

Element Kits

- Charcoal wrapped 2-pack . . . EK65
  Clear net no color

Repair Kits

- Repair kit RKF45
- Replacement sight kit WK35
- Indicator Pop-up kit DPK-05

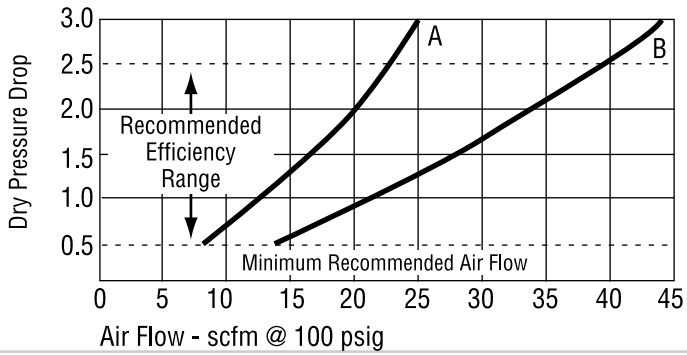
Mounting Kit see page 65

- Mounting kit FBK5

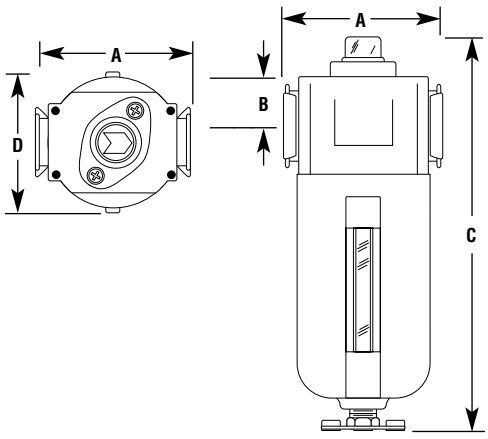
APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation

PERFORMANCE CHARACTERISTICS



A. F652
B. F653
F654



DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
1/4"	F652W	24	6 oz.	2 3/4	3/4	7 5/8	2 1/2	1.7
3/8"	F653W	37	6 oz.	2 3/4	3/4	7 5/8	2 1/2	1.7
1/2"	F654W	37	6 oz.	2 3/4	3/4	7 5/8	2 1/2	1.7

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

MidFlow Adsorber Filters

F6

FEATURES

- Protects end processes from gaseous oil contamination and rids compressed air of offensive oily odors
- Removes hydrocarbons for use in analytical instruments
- Low pressure drop
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- 10 oz./20 oz. black coated metal bowl with liquid level sight
- Black coated aluminum housing
- Manual 1/8" NPT twist drain

OPTIONS

add suffix to part number in alpha order
M Metal bowl
without sight glass F673**M**

SPECIFICATIONS

Metal Bowl

- Zinc black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight

- Zinc black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Element

- Multi-wrapped layers of impregnated activated charcoal particles to increase purification qualities. If the compressed air has been prepared by a suitable refrigerated dryer and F5A coalescer filter, the F6 Absorber will insure oil concentrations of .0015 PPM by weight. In all cases, an F5 coalescer must precede an F6 Absorber. To prevent any particle migration downstream an F3 with 3 micron element should be installed downstream for total system protection.

Body Black E coated aluminum
Baffle plastic
Seals Buna N

Bowl Kits

- Metal bowl without sight BKF47M
- Metal bowl with sight BKF47W

Element Kits

- Charcoal wrapped EK67, EK68

Repair Kits

- Repair kit RKF47, RKF48
- Replacement sight kit WK37, WK47
- Indicator Pop-up kit DPK-05

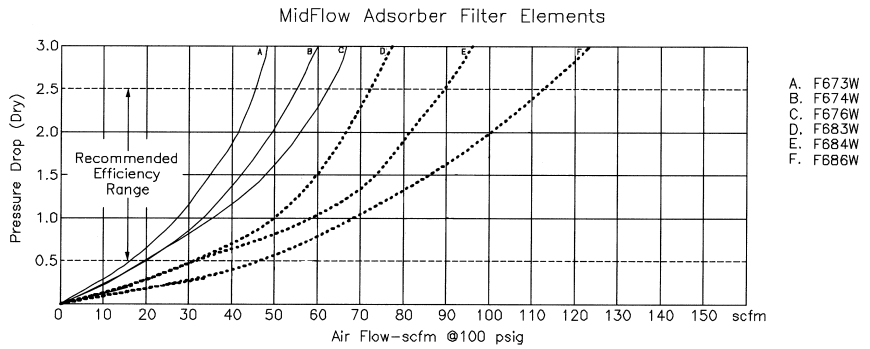
Mounting Kit see page 65

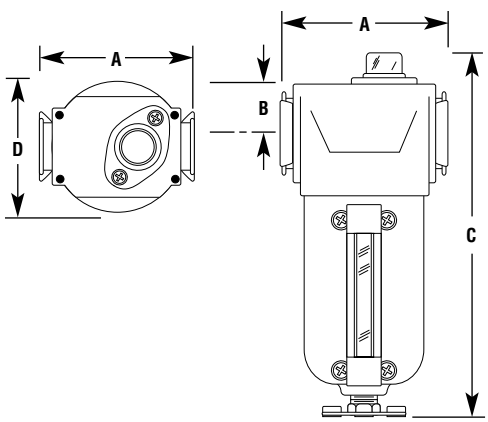
- Mounting kit FBK7

APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
3/8"	F673W	48	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
3/8"	F683W	72	20 oz.	3 3/4	1 1/8	11 1/2	3	3.8
1/2"	F674W	56	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
1/2"	F684W	90	20 oz.	3 3/4	1 1/8	11 1/2	3	3.8
3/4"	F676W	60	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
3/4"	F686W	110	20 oz.	3 3/4	1 1/8	11 1/2	3	3.8

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

High Flow Adsorber Filters

F6

FEATURES

- Protects end processes from gaseous oil contamination and rids compressed air of offensive oily odors
- Removes hydrocarbons for use in analytical instruments
- Low pressure drop
- Black coated bowl
- Manual 1/8" NPT twist drain

OPTIONS

add suffix to part number in alpha order

D Differential pressure gauge . . F608-10**D**

For Metal Bowl without sight delete W

SPECIFICATIONS

Metal Bowl

- Steel, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with sight

- Steel, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Element

- Multi-wrapped layers of impregnated activated charcoal particles to increase purification qualities. If the compressed air has been prepared by a suitable refrigerated dryer and F5A Coalescer filter, the F6 Absorber will insure oil concentrations of .0015 PPM by weight. In all cases, an F5 Coalescer must precede an F6 Absorber. To prevent any particle migration downstream an F3 with 3 micron element should be installed downstream for total system protection.

Body Black E coated aluminum
Baffle aluminum
Seals Buna N

Bowl Kits

- Metal bowl with sight BKF329W
- Metal bowl without sight BKF329M
- Metal bowl with sight BKF364W
- Metal bowl without sight BKF364

Element Kits

- Charcoal wrapped 605 . . . . . EKF605
- Charcoal wrapped 608 . . . . . EKF608

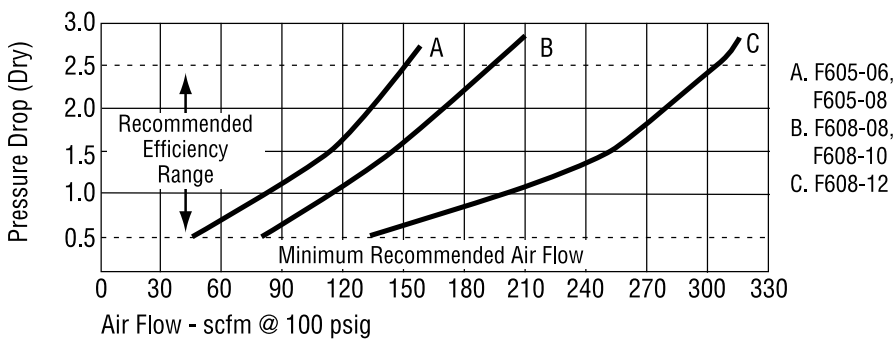
Repair Kit

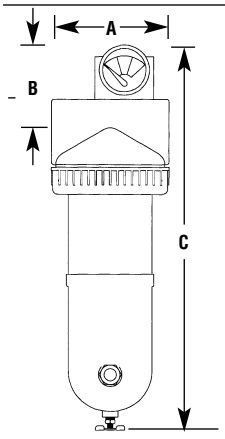
- Repair kit RKF505 RKF508
- Replacement sight kit WK35
- Indicator pop-up kit DPK-05

APPLICATIONS

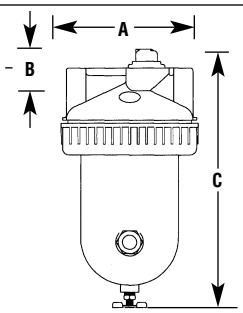
- Food plants
- Pharmaceutical
- Instrumentation

PERFORMANCE CHARACTERISTICS





F608-10DW, F608-12DW
Optional ΔP Guage



F605-06W
F605-08W
F608-08W
Pop-up standard

DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
3/4"	F605-06W	29 oz.	185	4 7/8	1 3/16	9 13/32	3.7
1"	F605-08W	29 oz.	185	4 7/8	1 3/16	9 13/32	3.7
1"	F608-08W	60 oz.	300	4 7/8	1 3/16	14 13/32	6.0
1 1/4"	F608-10W	60 oz.	300	5 1/4	1 1/2	16 3/4	6.3
1 1/2"	F608-12W	60 oz.	400	5 1/4	1 1/2	16 3/4	6.3

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.


Gauge Optional

High Flow Adsorber Filters

F6

FEATURES
- Protects end processes from gaseous oil contamination and rids compressed air of offensive oily odors
- Removes hydrocarbons for use in analytical instruments
- Low pressure drop
- Manual 1/4" NPT twist drain

OPTIONS
add suffix to part number in alpha order

D Differential pressure gauge . F610-10**D**
T External Float Drain F610-10**T**
W Metal bowl with sight glass. F610-10**W**

SPECIFICATIONS
Metal Bowl
- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight
- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Body Black coated aluminum
Baffle plastic
Seals Buna N

Element
- Multi-wrapped layers of impregnated activated charcoal particles to increase purification qualities. If the compressed air has been prepared by a suitable refrigerated dryer and F5A Coalescer filter, the F6 Absorber will insure oil concentrations of .0015 PPM by weight. In all cases, an F5 Coalescer must precede an F6 Absorber. To prevent any particle migration downstream an F3 with 3 micron element should be installed downstream for total system protection.

KITS
- Float for External Drain 5200
- Drain Trap Kit DKTF2

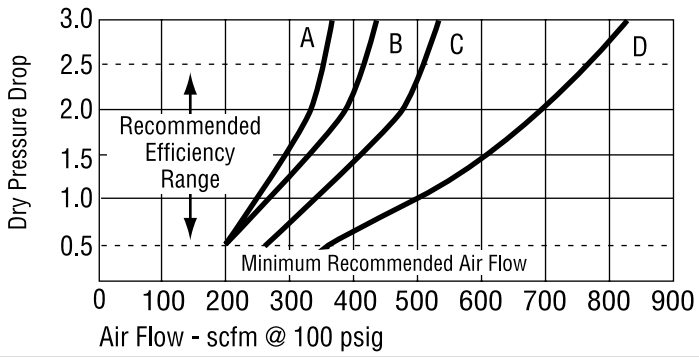
Bowl Kits
- Metal bowl with sight BKF510W
- Metal bowl without sight. . . . BKF510M
- Metal bowl with sight BKF518W
- Metal bowl without sight. . . . BKF518M
- Metal bowl with sight BKF528W
- Metal bowl without sight. . . . BKF528M

Element Kits
- Charcoal wrapped . . . . . EKF610, EKF618, ... EKF628

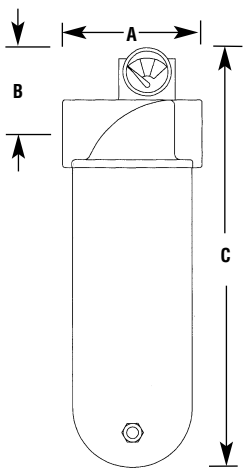
Repair Kits
- Repair kit RKF511 RKF519 RKF529
- Replacement sight kit BSF510

APPLICATIONS
- Food plants
- Pharmaceutical
- Instrumentation

PERFORMANCE CHARACTERISTICS



A. F610-10
B. F610-12, F610-16
C. F618-12 F618-16
D. F628-16



DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
1″	F610-08	100 oz.	420	6 1/2	2	21	16
1 1/4″	F610-10	100 oz.	420	6 1/2	2	21	16
1 1/2″	F610-12	100 oz.	475	6 1/2	2	21	16
1 1/2″	F618-12	200 oz.	590	6 1/2	2	28 3/4	19
2″	F610-16	100 oz.	475	6 1/2	2	21	16
2″	F618-16	200 oz.	590	6 1/2	2	28 3/4	19
2″	F628-16	300 oz.	840	6 1/2	2	39	23

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

High Flow Adsorber Filters

F6

Gauge Optional

FEATURES

- Protects end processes from gaseous oil contamination and rids compressed air of offensive oily odors
- Removes hydrocarbons for use in analytical instruments
- Low pressure drop
- Manual 1/4" NPT twist drain

OPTIONS

add suffix to part number in alpha order

D Differential pressure gauge . . F611-24**D**

T External Float Drain F611-24**T**

W Metal bowl with sight glass F611-24**W**

SPECIFICATIONS

Metal Bowl

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Body Black coated aluminum
Baffle plastic
Seals Buna N

Element

- Multi-wrapped layers of impregnated activated charcoal particles to increase purification qualities. If the compressed air has been prepared by a suitable refrigerated dryer and F5A Coalescer filter, the F6 Absorber will insure oil concentra tions of .0015 PPM by weight. In all cases, an F5 Coalescer must precede an F6 Absorber. To prevent any particle migration downstream an F3 with 3 micron element should be installed downstream for total system protection.

KITS

- Float for External Drain 5200
- Drain Trap Kit DKTF2

Bowl Kits

- Metal bowl with sight BKF510W
- Metal bowl without sight. . . . BKF510M
- Metal bowl with sight BKF518W
- Metal bowl without sight. . . . BKF518M
- Metal bowl with sight BKF528W
- Metal bowl without sight. . . . BKF528M

Element Kits

- Charcoal wrapped . . . . . EKF611, EKF619, ... EKF629

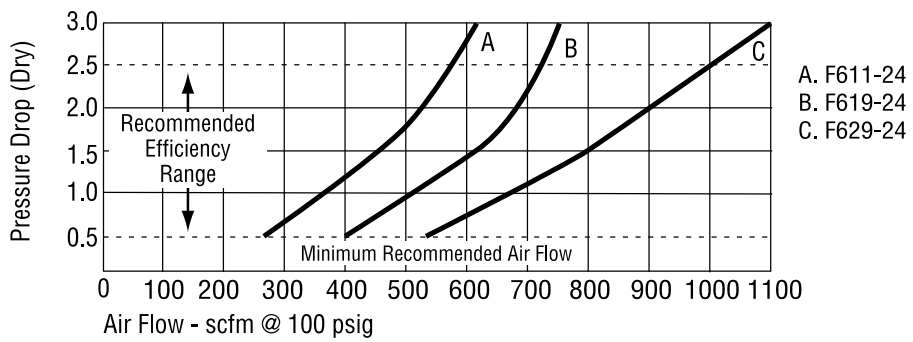
Repair Kits

- Repair kit RKF511 RKF519 RKF529
- Replacement sight kit BSF510

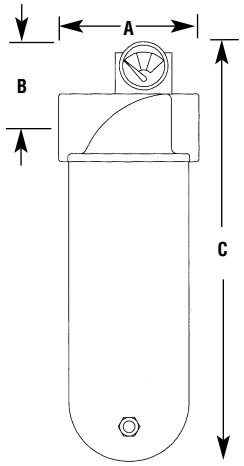
APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation

PERFORMANCE CHARACTERISTICS



A. F611-24
B. F619-24
C. F629-24



DIMENSIONS

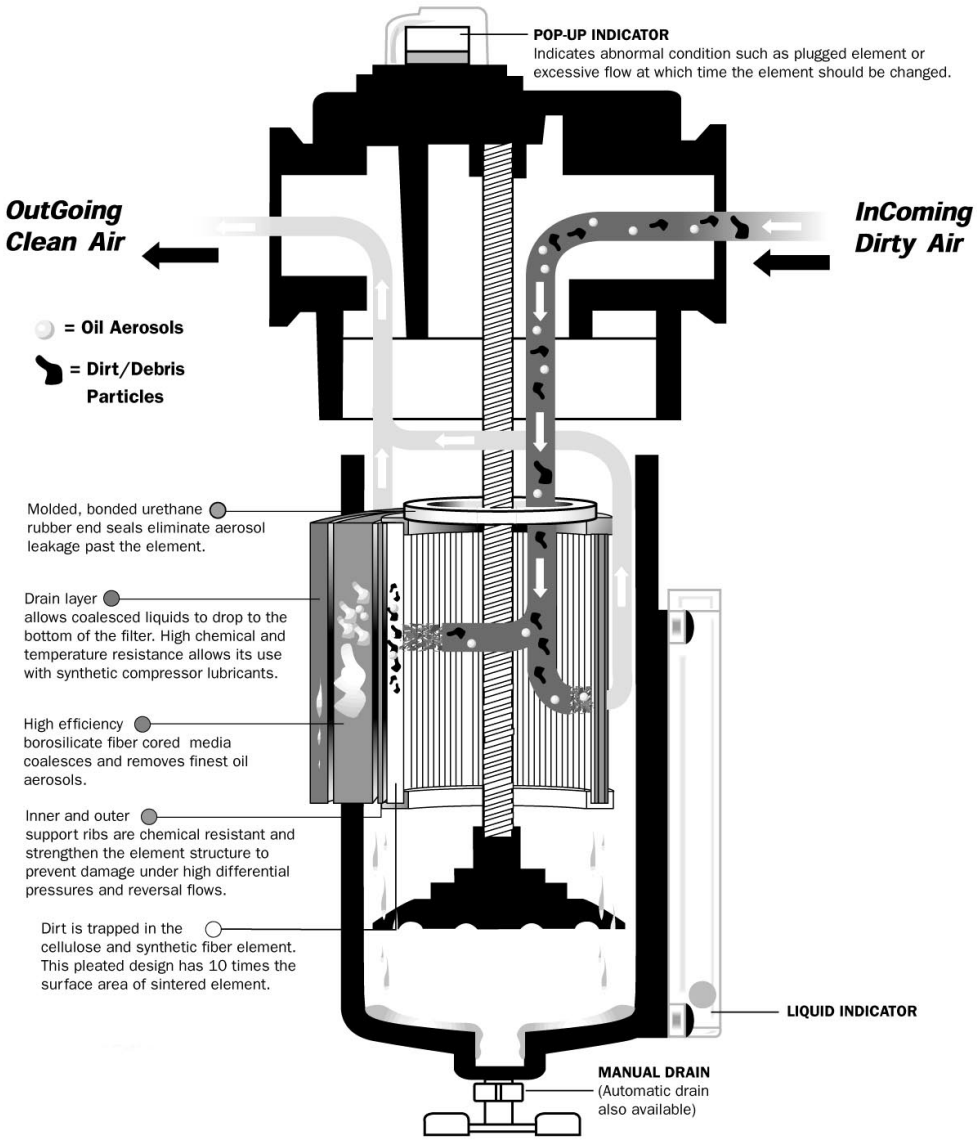
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
3″	F611-24	100 oz.	620	7 5/8	2 1/4	22 11/16	21
3″	F619-24	200 oz.	770	7 5/8	2 1/4	31 3/16	24
3″	F629-24	300 oz.	1100	7 5/8	2 1/4	41 7/16	28

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

TWO-IN-ONE FILTERS

The Arrow F7 Series Two-in-One Filter maximizes filter efficiency, extends element life and allows for easy maintenance.

Untreated air enters the filter and flows through the inside portion of the element where it is first filtered through a pleated, 3 micron absolute particulate element. This pleated element uses a large surface area to filter dirt and solid particles down to .3 micron in size with 95% efficiency. The air then travels through the .03 micron element which coalesces oil aerosols into liquid form. Oil removal occurs on the outer layer of the element and accumulates in the bowl sump.



MidFlow Two-in-One Coalescing Filters

F7

FEATURES

- 3 Micron absolute protection for .03 micron coalescing element
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- Low pressure drop
- 10 oz. or 20 oz. black coated metal bowl with liquid level sight
- Manual 1/8" NPT twist drain

OPTIONS

add suffix to part number in alpha order

Float Drain

F Internal float drain F773**FW**
K Overnight drain F773**KW**
M Black coated metal bowl . . . F773**M**

SPECIFICATIONS

Metal Bowl

- Zinc, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight

- Zinc, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Internal Float Drain Note: limits bowl temperature and pressure ratings

- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Body Black E coated aluminum
Baffle plastic
Seals Buna N

Elements

- .03 micron borosilicate glass fiber D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM with 3 micron absolute protection

KITS

- Internal float drain kit 5200
- Overnight Metal (K) . . . . . CKFK

Bowl Kits

- 10 oz. with sight BKF47W
- 10 oz. without sight. BKF47M
- 20 oz. with sight BKF48W
- 20 oz. without sight BKF48M

Element Kits

- .03 micron EK77
  . . . . . EK78

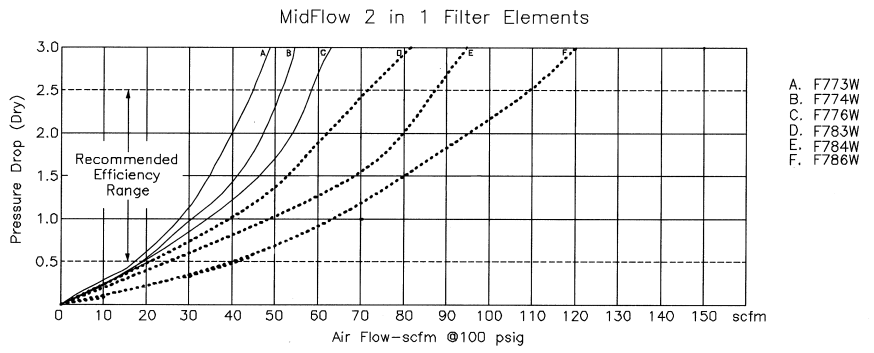
Repair Kits

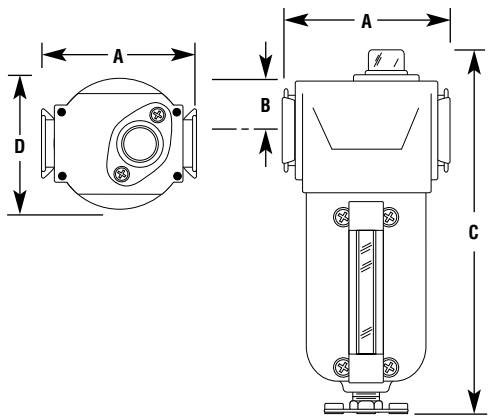
- Repair kit RKF47, RKF48
- Replacement sight kit WK37, WK47
- Indicator Pop-up kit DPK-05

Mounting Kit see page 65

- Mounting kit FBK7

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
3/8"	F773W	48	10	3 3/4	1 1/8	8 1/4	3	2.7
3/8"	F783W	72	20	3 3/4	1 1/8	11 1/2	3	3.6
1/2"	F774W	55	10	3 3/4	1 1/8	8 1/4	3	2.7
1/2"	F784W	90	20	3 3/4	1 1/8	11 1/2	3	3.6
3/4"	F776W	60	10	3 3/4	1 1/8	8 1/4	3	2.7
3/4"	F786W	110	20	3 3/4	1 1/8	11 1/2	3	3.6

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

High Flow Two-in-One Coalescing Filters F7

FEATURES
- 3 Micron absolute protection for .03 micron coalescing element
- Manual 1/8" NPT twist drain
- Low pressure drop

OPTIONS
add suffix to part number in alpha and numeric order

D Differential pressure gauge . F708-10**D**

Float Drain

F Internal float drain F705-06**F**W

Overnight Drains

An overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less. It then closes when pressure rises to 6 psi.

Twist to manually drain F708-08**K**W

For Metal Bowl without sight delete W

SPECIFICATIONS

Metal Bowl
- Zinc, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with sight
- Zinc, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Internal Float Drain
- Buna N float

Note: limits bowl temperature and pressure rating
- Operating pressure range 30 to 175 psig
- Operating temperature range 40˚F to 120˚F

Body black E coated aluminum
Baffle aluminum
Seals Buna N
Elements
- .03 micron borosilicate glass fiber D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM with 3 micron absolute protection

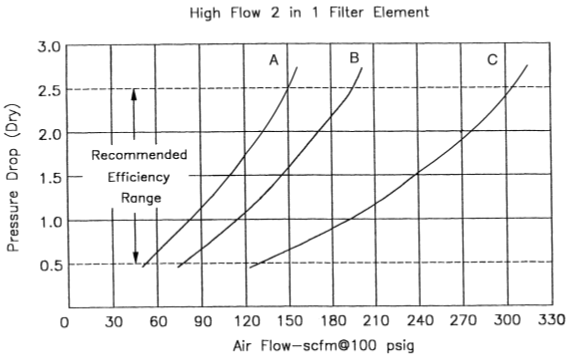
KITS
- Internal float drain kit 5200
- Overnight Drain Kit (K) . . . . . CKFK

Bowl Kits
- Metal with sight F505 . . . . . BKF329W
- Metal without sight F505. . . . BKF329M
- Metal with sight F508 . . . . . BKF364W
- Metal without sight F508. . . . BKF364M

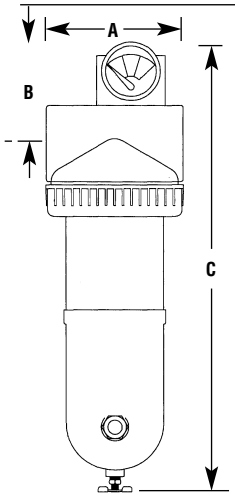
Element Kits
- .03 micron 505 . . . . . EKF705
- .03 micron 508 . . . . . EKF708

Repair Kits
- Repair kit 505. . . . . RKF505
- Repair kit 508. . . . . RKF508
- Replacement sight kit WK35
- Indicator pop-up kit DPK-05

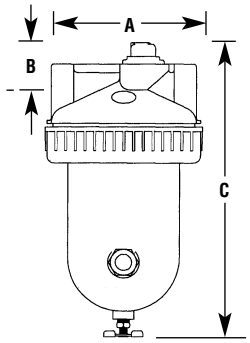
PERFORMANCE CHARACTERISTICS



A. F705-06W - 3/4"
F705-08W - 1"
B. F708-08W - 1"
F708-10DW - 1 1/4"
C. F708-12DW - 1 1/2"



F708-10W, F708-12W
Optional ΔP Guage



F705-06W
F705-08W
F705-08W
Pop-up standard

DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
3/4"	F705-06W	29 oz.	150	4 7/8	1 3/16	9 13/32	3.7
1"	F705-08W	29 oz.	150	4 7/8	1 3/16	9 13/32	3.7
1"	F708-08W	60 oz.	200	4 7/8	1 3/16	14 13/32	6.0
1 1/4"	F708-10W	60 oz.	200	5 5/32	3 3/4	16 3/4	6.3
1 1/2"	F708-12W	60 oz.	310	5 5/32	3 3/4	16 3/4	6.3

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.


Gauge Optional

High Flow Two-in-One Coalescing Filters

F7

SPECIFICATIONS

Metal Bowl
- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight
- Black Coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Body Black coated aluminum
Baffle plastic
Seals Buna N

Elements
- .03 micron borosilicate glass fiber D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM with 3 micron absolute protection

KITS
- Float for External Drain 5200
- Drain Trap Kit DKTF2

Bowl Kit
- Metal with sight BKF510W
- Metal without sight BKF510
- Metal with sight BKF518W
- Metal without sight BKF518
- Metal with sight BKF528W
- Metal without sight BKF528

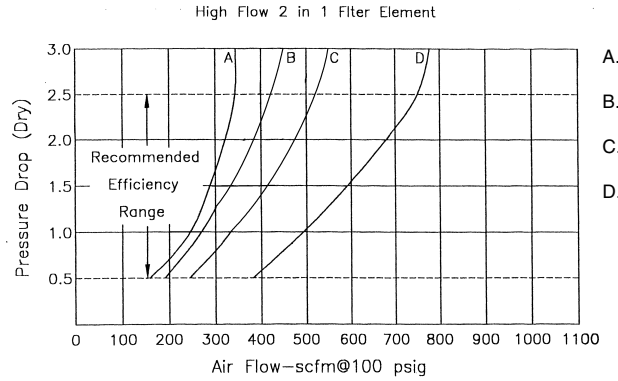
Element Kits
- .03 micron . . . . . EKF710, ... EKF718, EKF728

Repair Kits
- Repair kit RKF511, RKF519, RKF529
- Replacement sight kit BSF510

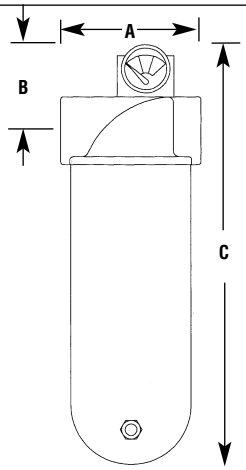
FEATURES
- 3 Micron absolute protection for .03 micron coalescing element
- Low pressure drop
- Manual 1/4" NPT twist drain

OPTIONS
add suffix to part number in alpha order
D Differential pressure gauge . F710-08**D**
T External Float Drain F710-08**T**
W Metal bowl with sight glass. F710-08**W**

PERFORMANCE CHARACTERISTICS



A. F710-08 - 1"
F710-10 - 1 1/4"
B. F710-12 - 1 1/4"
F710-16 - 2"
C. F718-12 - 1 1/2"
F718-16 - 2"
D. F728-16 - 2"



DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
1″	F710-08	100 oz.	310	6½	2	21	16
1¼″	F710-10	100 oz.	310	6½	2	21	16
1½″	F710-12	100 oz.	415	6½	2	21	16
1½″	F718-12	200 oz.	515	6½	2	28¾	19
2″	F710-16	100 oz.	415	6½	2	21	16
2″	F718-16	200 oz.	515	6½	2	28¾	19
2″	F728-16	300 oz.	765	6½	2	39	23

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

High Flow Two-in-One Coalescing Filters

F7

Gauge Optional

FEATURES

- 3 Micron absolute protection for .03 micron coalescing element
- Low pressure drop
- Manual 1/4" NPT twist drain

OPTIONS

add suffix to part number in alpha order

D Differential pressure gauge . F711-24**D**
T External Float Drain F711-24**T**
W Metal bowl with sight glass F711-24**W**

SPECIFICATIONS

Metal Bowl

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Body Black coated aluminum
Baffle plastic
Seals Buna N

Elements

- .03 micron borosilicate glass fiber D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM with 3 micron absolute protection

KITS

- Float for External Drain 5200
- Drain Trap Kit DKTF2

Bowl Kits

- Metal with sight BKF510W
- Metal without sight BKF510
- Metal with sight BKF518W
- Metal without sight BKF518
- Metal with sight BKF529W
- Metal without sight BKF529

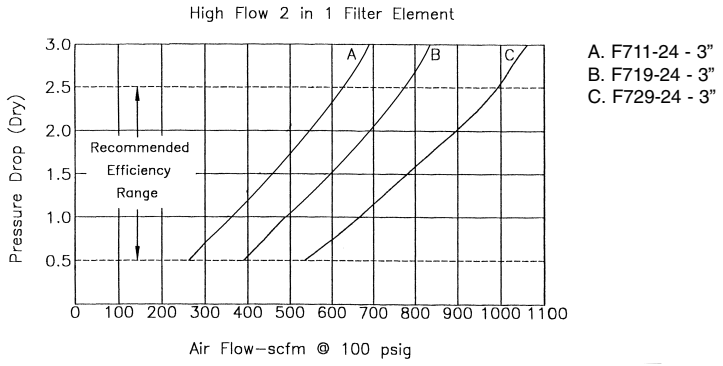
Element Kits

- .03 micron EKF711, EKF719, EKF729

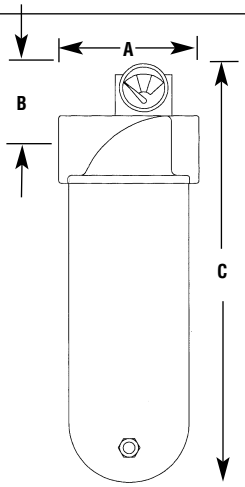
Repair Kits

- Repair kit RKF511, RKF519, RKF529
- Replacement sight kit BSF510

PERFORMANCE CHARACTERISTICS



A. F711-24 - 3"
B. F719-24 - 3"
C. F729-24 - 3"



DIMENSIONS

PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
3″	F711-24	100 oz.	620	7 5/8	2 1/4	22 11/16	21
3″	F719-24	200 oz.	770	7 5/8	2 1/4	31 3/16	24
3″	F729-24	300 oz.	1100	7 5/8	2 1/4	41 7/16	28

* Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

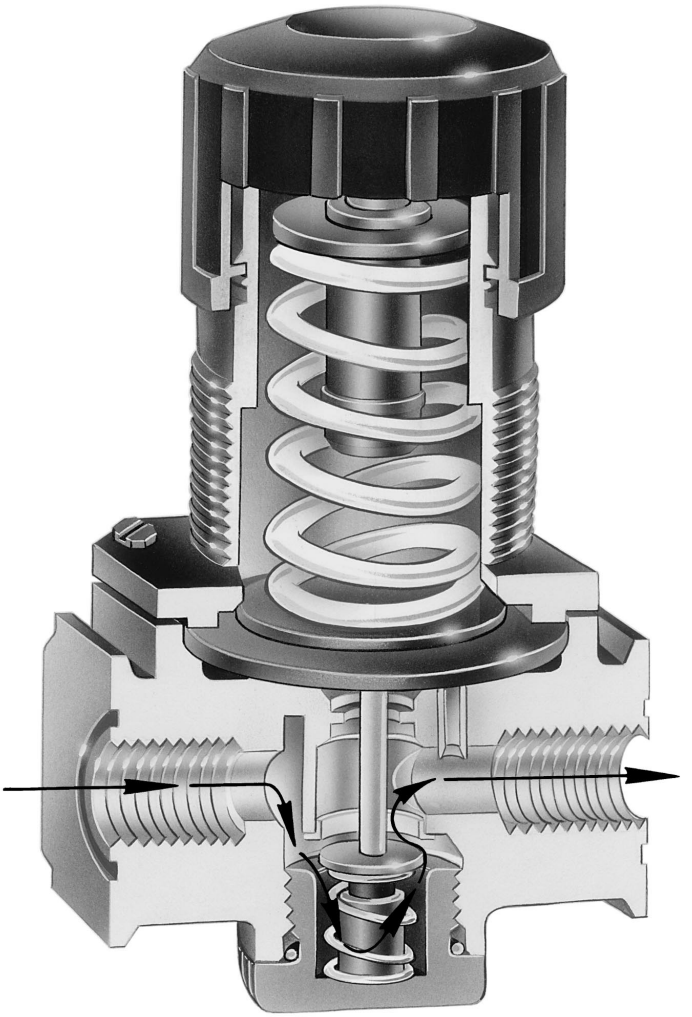
REGULATORS

Arrow Pneumatics

Pneumatic devices are designed to work at a certain pressure. Most devices will operate at pressures in excess of that recommended. However, operating at higher pressures can cause excess torque, force and wear and can waste compressed air. The best operation and life of the device can be obtained by using the proper pressure level. A regulator is used to reduce and maintain the pressure at a level suitable for the device.

Arrow's quality Regulators include the Miniature Series which are high performance, low cost regulators for the O.E.M. market and low flow applications up to 25 scfm. Arrow's Tri•Star Series are compact, lightweight regulators engineered for superior performance in a wide range of applications where air flow does not exceed 100 scfm. Arrow's Midflow Series regulators are compact and available in 3/8", 1/2", 3/4" & 1" with air flows exceeding 200 SCFM. Arrow's High Flow Series heavy duty regulators are for rigorous applications requiring constant pressure for flows up to 700 scfm.

The General Purpose Precision Series features state-of-the-art engineering for precision control in critical tolerance applications. The Arrow Precision Regulator lineup can be tailored to fit your specific needs. All Arrow regulators are easily panel mounted. All Arrow regulators are designed with a micro seat finish to ensure no reduced pressure creep.



Miniature Air Regulators

R16

FEATURES
- Micro seat finish to ensure no reduced pressure creep
- Diaphragm operation
- Relieving style standard
- Three position non-rising adjustment knob; push to lock, pull to adjust, detach to make tamper resistant
- Easily panel mounted
- Tamper-proof cap included

OPTIONS
add suffix to part number in alpha order

B 2-Position mechanical Lock Knob R162**B**
G Gauge (5-160 psi) R162**G**
I Instrument pressure . . . . R162**I** 3 to 20 psi adjustment
L Low pressure . . . . . R162**L** 3 to 60 psi adjustment
N Non-relieving R162**N**
P Panel mount R162**P**
U No gauge ports R162**U**

SPECIFICATIONS

Body
- Zinc, black E coated

Bonnet
- Glass filled nylon

Seals
- Buna N

Supply Pressure
- 250 psig

Operating Pressure Range
- 5 to 125 psig standard
- 3 to 60 psig optional
- 3 to 20 psig optional

Operating Temperature Range
- 40˚F to 120˚F

Gauge Ports
- 1/8″ standard, full flow

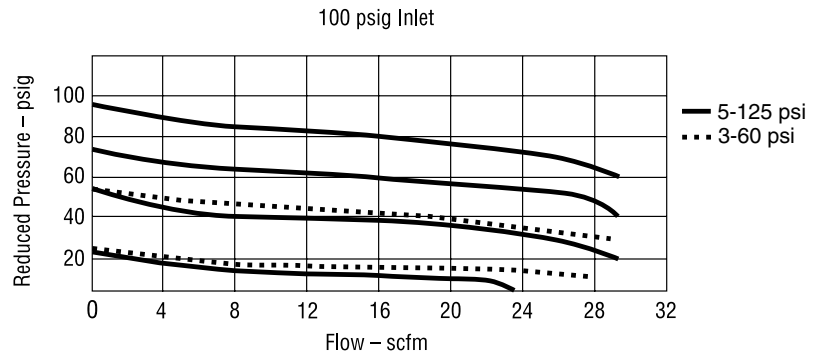
KITS

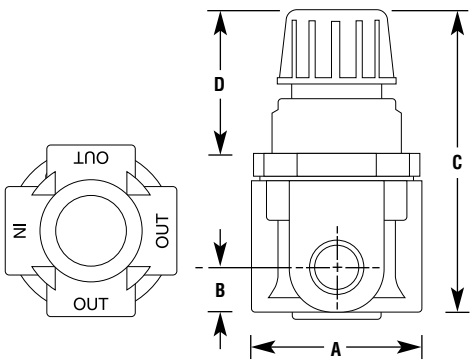
Panel Mounting Kit
- Ring only, panel hole size 1 3/16″ PK1611

Diaphragm Kits
- Relieving RK260
- Non-relieving RK260N

Bracket Kit see page 65
- Bracket and ring BR1611

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (OZS.)
1/8″	R161	25	1 1/2	1/2	2 3/4	1 1/4	6
1/4″	R162	25	1 1/2	1/2	2 3/4	1 1/4	6

Miniature Air Regulators

R26

FEATURES
- Micro seat finish to ensure no reduced pressure creep
- Diaphragm operation
- Relieving style standard
- Three position non-rising adjustment knob; push to lock, pull to adjust, detach to make tamper resistant
- Easily panel mounted
- Tamper-proof cap included
- Lightweight

OPTIONS
add suffix to part number in alpha order

B 2-Position Mechanical Lock Knob R262**B**
G Gauge (0-160 psi) R262**G**
I Instrument pressure . . . . R262**I** 3 to 20 psi adjustment
L Low pressure . . . . . R262**L** 3 to 60 psi adjustment
N Non-relieving R262**N**
P Panel mount R262**P**
U No gauge ports R262**U**
V All 1/4″ ports R262**V**
Y1 Viton diaphragm/valve set R262**Y1**
Y2 EDPM diaphragm/valve set R262**Y2**

SPECIFICATIONS

Body
- Glass filled nylon

Bonnet
- Glass filled nylon

Seals
- Buna N

Supply Pressure
- 250 psig

Operating Pressure Range
- 5 to 125 psig standard
- 3 to 60 psig optional
- 3 to 20 psig optional

Operating Temperature Range
- 40˚F to 120˚F

Gauge Ports
- 1/8″ standard, full flow

KITS

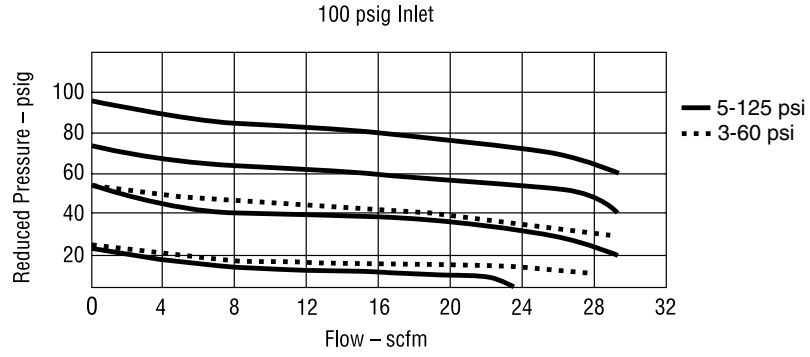
Panel Mounting Kit
- Ring only, panel hole size 1 3/16″ PK1611

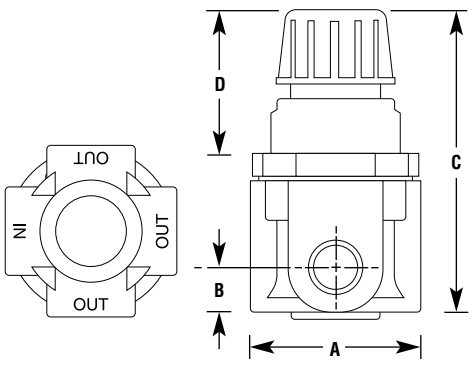
Diaphragm Kits
- Relieving RK260
- Non-relieving RK260N

Bracket Kit see page 65
- Bracket and ring BR1611

Applications
- Non-relieving diaphragm can be used on liquid applications

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (OZS.)
1/8″	R261	25	1 1/2	1/2	2 3/4	1 1/4	2
1/4″	R262	25	1 1/2	1/2	2 3/4	1 1/4	2

Push-to-Connect Regulators

R24

FEATURES
- Fast installation time
- Eliminates inlet and outlet fittings
- No pipe sealant
- Quick disconnect
- No tools needed
- Reduces potential leak points
- Micro-finish valve seat ensures no reduced creep
- Reduces potential leak points
- Easily panel mounted
- Tamper proof cap included
- Lightweight

OPTIONS
add suffix to part number in alpha order

B	2 Position Mechanical Lock Knob	R242**B**
G	Gauge (0-160 psi)	R242**G**
I	Instrument pressure (3-20psi)	R242**G**
L	Low Pressure (3 - 60 psi)	R242**L**
N	Non-relieving	R242**N**
P	Panel mount	R242**P**
Y1	Viton diaphragm/valve set	R242**Y1**
Y2	EDPM diaphragm/valve set	R242**Y2**

SPECIFICATIONS
Body
- Glass filled nylon

Bonnet
- Glass filled nylon

Seals
- Buna N

Spring
- 316 Stainless Steel

Supply Pressure
- 250 psig

Operating Pressure Range
- 5 to 125 psig

Operating Temperature Range
- 40˚F to 120˚F

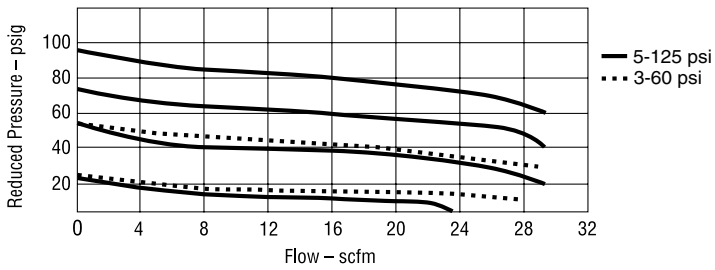
Gauge Ports
- (2) 1/8″ Standard, full flow R240 only

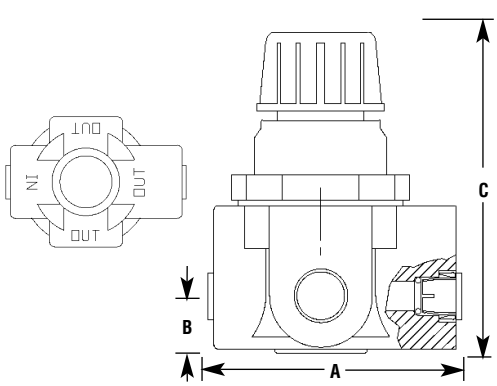
KITS
Diaphragm Kit
- Relieving RK260
- Non-relieving RK260N

Mounting Kits see page 65
- Bracket & Ring BR1611
- Ring Only PK1611

PERFORMANCE CHARACTERISTICS

R242 - Air
100 psig Inlet





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	DIMENSIONS (INCHES) A	B	C	WEIGHT (OZ.)
1/4″	R242	30	2 3/16	1 9/16	2 3/4	2.9

Tri•Star Regulators

R35

FEATURES
- Micro finished brass seat to ensure no reduced pressure creep
- Reinforce diaphragm for repeated accuracy
- Minimal pressure droop due to efficient aspiration
- Three position non-rising adjustment knob; push to lock, pull to adjust, detach to make tamper resistant
- Relieving style standard
- In-line or modular installation
- Easily panel mounted
- Tamper-proof cap included
- High scfm flow due to efficient aspiration

OPTIONS
add suffix to part number in alpha order

G Gauge (0-160 psi) R354**G**
H High pressure R354**H**
10 to 250 psi adjustment
I Instrument pressure R354**I**
3 to 20 psi adjustment
L Low pressure R354**L**
3 to 60 psi adjustment
N Non-relieving R354**N**
P Panel mount R354**P**
T Tee handle adjustment R354**T**

SPECIFICATIONS

Body
- Black E coated aluminum

Bonnet
- Glass filled nylon

Seals
- Buna N Elastomer standard

Seat
- Brass

Supply Pressure
- 250 psig

Operating Pressure Range
- 5 to 125 psig

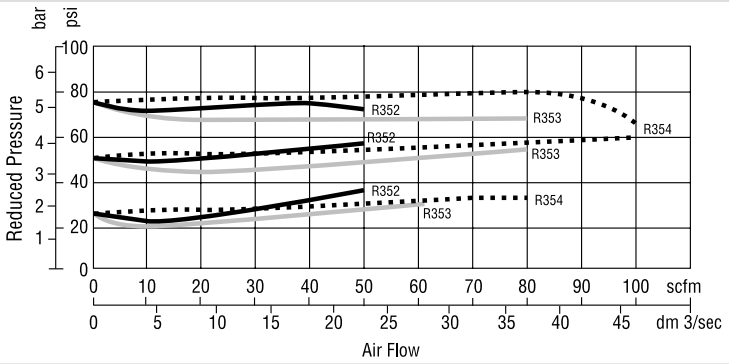
Operating Temperature Range
- 40˚F to 120˚

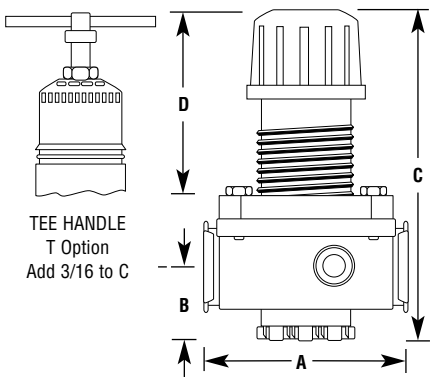
Gauge Port
- 1/4″ full flow

KITS
Repair Kits
- Diaphragm kit relieving DK35
- Diaphragm kit Non-relieving DK35N
- Valve kit VK35

Mounting Kits see page 65
- Bracket kit RBK5
- Panel mounting kit ring only panel hole size 1 3/16″ PKR35
- Panel mount bracket and ring PMKR35

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	DIMENSIONS (INCHES) A	B	C	D	E (WIDTH)	WEIGHT (LBS.)
1/4″	R352	50	2 21/32	1 7/32	5 3/8	2 3/4	2 1/4	1.0
3/8″	R353	80	2 21/32	1 7/32	5 3/8	2 3/4	2 1/4	1.0
1/2″	R354	100	2 21/32	1 7/32	5 3/8	2 3/4	2 1/4	1.0

MidFlow Regulators

R37

FEATURES
- Micro finished brass seat to ensure no reduced pressure creep
- Reinforce diaphragm for repeated accuracy
- Minimal pressure droop due to efficient aspiration
- Three position non-rising adjustment knob; push to lock, pull to adjust, detach to make tamper resistant
- Relieving style standard
- Easily panel mounted
- Tamper-proof cap included
- High scfm flow due to efficient aspiration

OPTIONS
add suffix to part number in alpha order

G Gauge (0-160 psi) R373**G**
H High pressure R373**HT**
10 to 250 psi adjustment - ***Must use T-handle option***
I Instrument pressure R373**I**
3 to 20 psi adjustment
L Low pressure R373**L**
3 to 60 psi adjustment
N Non-relieving R373**N**
P Panel mount R373**P**
T Tee handle adjustment R373**T**

SPECIFICATIONS

Body
- BlackE coated aluminum

Bonnet
- Glass filled nylon

Seals
- Buna N Elastomer standard

Seat
- Brass

Supply Pressure
- 250 psig

Operating Pressure Range
- 5 to 125 psig

Operating Temperature Range
- 40˚F to 120˚

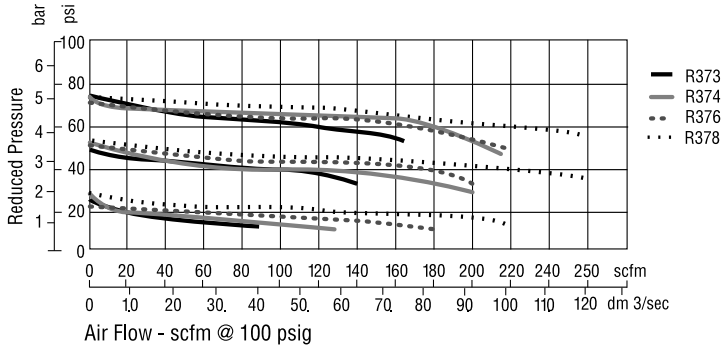
Gauge Port
- 1/4″ full flow

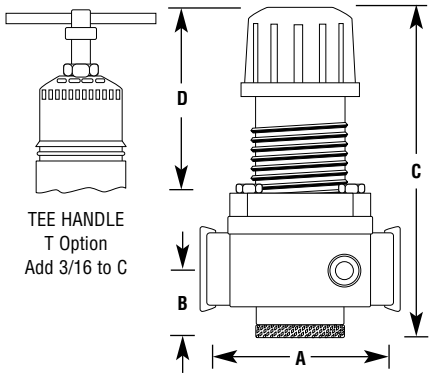
KITS

Repair Kits
- Diaphragm kit relieving DK35
- Diaphragm kit Non-relieving DK35N
- Valve kit VK37

Mounting Kits see page 65
- Bracket kit RBK7
- Panel mounting kit ring only panel hole size 1 3/16″ PKR35
- Panel mount bracket and ring PMKR35

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	DIMENSIONS (INCHES) A	B	C	D	E (WIDTH)	WEIGHT (LBS.)
3/8″	R373	170	3 7/16	1 13/32	5 7/8	2 3/4	2 1/4	1.3
1/2″	R374	215	3 7/16	1 13/32	5 7/8	2 3/4	2 1/4	1.3
3/4″	R376	220	3 7/16	1 13/32	5 7/8	2 3/4	2 1/4	1.3
1″	R378	250	3 7/16	1 13/32	5 7/8	2 3/4	2 1/4	1.3

High Flow Regulators

R39

FEATURES
- Micro finished brass seat to ensure no reduced pressure creep
- Relieving style piston standard
- High scfm flow due to efficient aspiration
- Hard epoxy corrosion protection
- Available in 1", 1-1/4", 1-1/2" NPT sizes

OPTIONS
add suffix to part number in alpha order

G Gauge (0-160 psi) R398**G**
H High pressure R398**H**
10 to 250 psi adjustment
L Low pressure R398**L**
3 to 60 psi adjustment
P Panel mount R398**P**

SPECIFICATIONS

Body
- Black E coated aluminum

Bonnet
- Die cast aluminum, black E coated

Seals
- Buna N Elastomer standard

Seat
- Brass

Supply Pressure
- 250 psig

Operating Pressure Range
- 5 to 125 psig

Operating Temperature Range
- 40˚F to 120˚F

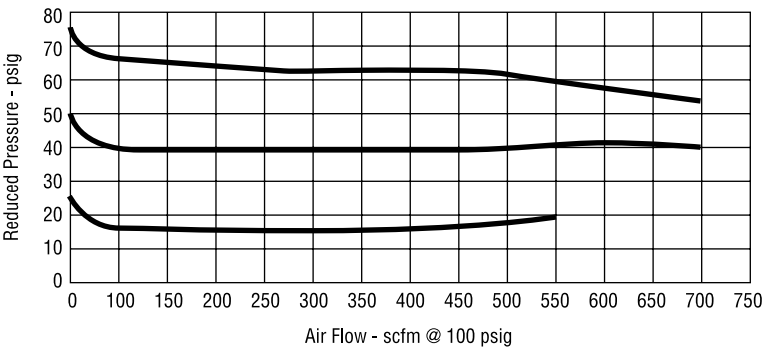
Gauge Ports
- 1/4"

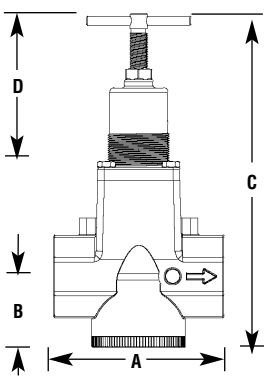
KITS

Repair Kit
- Piston relieving DK39
- Valve VK39
- Spring (5-125 psi) SK39
- Spring (3-60 psi) SK39L
- Spring (10-200 psi) SK39H
- Spring cage SC39

Mounting Kits see page 65
- Bracket Kit RBK39
- Panel mounting kit ring only . PKR35 panel hole size 1-3/16"

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
1"	R398	600	4 7/8	2 1/32	9 1/2	4 1/4	3.4
1 1/4"	R3910	700	4 7/8	2 1/32	9 1/2	4 1/4	3.3
1 1/2"	R3912	700	4 7/8	2 1/32	9 1/2	4 1/4	3.2

Adjustable High Performance Regulators

P10 P14

FEATURES
- Micro finished brass seat to ensure no reduced pressure creep
- Reinforce diaphragm for repeated accuracy
- Minimal pressure droop due to efficient aspiration
- Relieving style standard
- In-line or modular installation
- Easily panel mounted
- High scfm flow due to efficient aspiration
- Continuous bleed

OPTIONS
G Gauge (0-160 psi) P14-0**G**
H High pressure P14-04**H**
P14 only: 10 to 250 psi adjustment
L Low pressure P14-04**L**
P14 Only: 3 to 60 psi adjustment
NB No bleed P14-04**NB**
SP Std. pressure P10 only P10-04**SP**

SPECIFICATIONS
Body
- Black E coated aluminum

Bonnet
- Glass filled nylon

Seals
- Buna N Elastomer standard

Diaphragm
- Reinforced Buna N

Valve
- Brass and Buna N Disc

Seat
- Brass

Supply Pressure
- 250 psig

Reduced Press Flow
- P10: 3 to 25 psig, P14: 5 to 125 psig

Operating Temperature Range
- 40˚F to 120˚F

Gauge Ports
- 1/4″ npt

Bleed Rates
- Continuous 5.0 scfh or .08 scfm

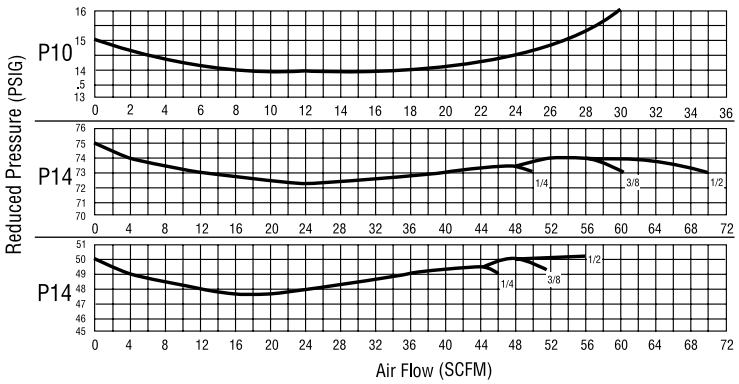
KITS
Panel Mounting Kit
- Panel mount kit 9/16″ bonnet PMKR35
- Panel mounting ring PKR35

Diaphragm Kit
- Diaphragm kit relieving P10 . . . . . RKP10R
- Diaphragm kit relieving P14-03, P14-04. . . . . RKP10R
- Diaphragm kit P14-02 . . . . . RKP14

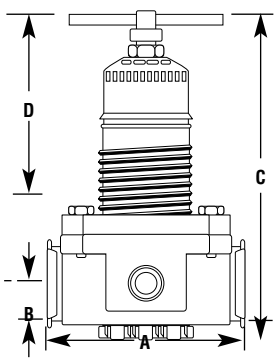
Mounting Kits see page 65
- Mounting bracket RBK5
- Panel mount nut PKR35

Applications
- Pneumatic instrumentation
- Controllers and transmitters
- Valve operators, positioners
- Cylinder loading and braking pressure control
- Roll loading
- Air and force balance hoists
- Electric pneumatic proportional modules
- Precise torque control of air operated tools

PERFORMANCE CHARACTERISTICS



Inverse Ratio Performance – P10											
Initial Pressure	-25	-20	-15	-10	-5	0	+5	+10	+15	+20	+25
Reduced Pressure Variance	+2	+1	+1	0	0	0	0	0	-1	-2	-3
Inverse Ratio Performance – P14											
Reduced Pressure Variance	+1.5	+1.2	+1	+.6	+.4	0	-.3	-.7	-1	-1.3	-1.5



DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	MANUAL RANGE PSIG	DIMENSIONS (INCHES) A	B	C	D	E (WIDTH)	WEIGHT (LBS.)
1/4″	P10-02	30	3-25	2 21/32	1 13/32	6 1/4	3 3/4	2 1/4	1.1
3/8″	P10-03	30	3-25	2 21/32	1 13/32	6 1/4	3 3/4	2 1/4	1.1
1/4″	P14-02	40	5-125	2 21/32	1 13/32	6 1/4	3 3/4	2 1/4	1.1
3/8″	P14-03	50	5-125	2 21/32	1 13/32	6 1/4	3 3/4	2 1/4	1.1
1/2″	P14-04	70	5-125	2 21/32	1 13/32	6 1/4	3 3/4	2 1/4	1.1

Miniature Integral Filter/Regulators B74

FEATURES
- Micro seat finish to ensure no reduced pressure creep
- Diaphragm operation
- Relieving style standard
- Three position non-rising adjustment knob; push to lock, pull to adjust, detach to make tamper resistant
- Easily panel mounted
- Tamper-proof cap included
- 20 micron filter

OPTIONS
add suffix to part number in alpha and numeric order

B 2-Position Mechanical Lockout Knob B742**B**
G Gauge (0-160 psi) B742**G**
I Instrument pressure . . . . . B742**I** 3 to 20 psi Adjustment
J Overnight drain plastic bowl . . B742**J**
K Overnight drain metal bowl . . . B742**K**
L Low pressure . . . . . B742**L** 3 to 60 psi adjustment
M Metal bowl B742**M**
N Non-relieving B742**N**
P Panel mount B742**P**
Z Piston drain B742**Z**
5 5 Micron element B742**5**

SPECIFICATIONS
Body
- Zinc, black E coated

Bonnet
- Glass filled nylon

Baffle plastic
Seals Buna N
Polycarbonate Bowl
- Max. pressure 150 psig
- Operating temperature range 40˚F to 125˚F

Metal Bowl aluminum
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Piston Drain metal
Note: limits bowl temperature and pressure rating
- Max. pressure 150 psig
- Operating temperature range 40˚F to160˚F

Elements
- 20 micron sintered bronze
- 5 micron sintered bronze

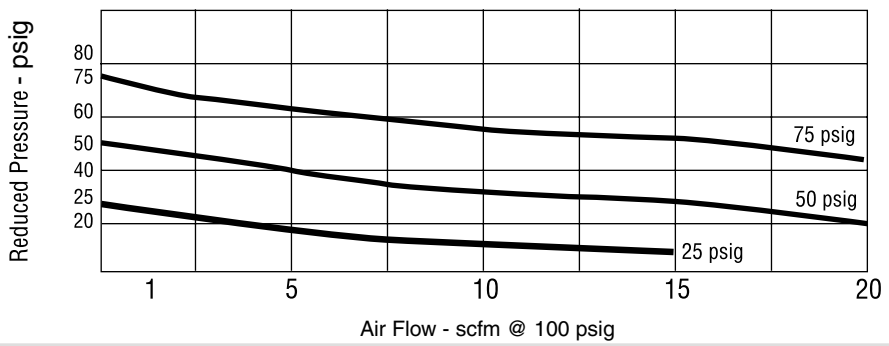
KITS
Bowl Kits
- Polycarbonate bowl. BKF300
- Metal bowl BKF300M

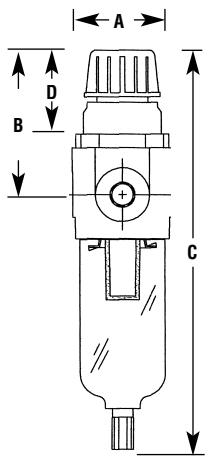
Element Kit
- 20 micron element 2-pack . . . EKF300
- Regulator bonnet repair RB260

Diaphragm Kit
- Relieving diaphragm RK260

Mounting Kits see page 65
- Mounting bracket and ring . . . BR1611
- Mounting bracket ring only . . . PK1611

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
1/8″	B741	20	1 oz.	1 5/8	2 3/16	6 1/4	1 1/4	.6
1/4″	B742	20	1 oz.	1 5/8	2 3/16	6 1/4	1 1/4	.6

Tri•Star Integral Filter/Regulators

B75

FEATURES
- 40 micron element
- Manual drain
- Relieving regulator
- Zero creep, machined brass valve seat
- 3-position, non-rising adjustment knob
- Tamper-proof cap included

OPTIONS
add suffix to part number in alpha and numeric order

F Internal float drain B752**F**
G Gauge B752**G**
H High pressure B752**H**
10 to 250 psi adjustment
I Instrument pressure B752**I**
3 to 20 psi adjustment
J Overnight drain plastic bowl B752**J**
K Overnight drain metal bowl . B752**K**M
L Low pressure B752**L**
3 to 60 psi adjustment
M 6 oz. metal bowl without sight . B752**M**
P Panel mount B752**P**
T Tee handle adjustment B752**T**
W 6 oz. metal bowl with sight . . . B752**W**
-5 5 micron element B752-**5**
-3 3 micron element B752-**3**

SPECIFICATIONS
WARNING! *Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl.*

Body
- Black E coated aluminum

Bonnet
- Glass filled nylon

Seals
- Buna N Elastomer standard

Polycarbonate Bowl
- Max. pressure 150 psi
- Operating temperature range 40˚F to 125˚F

Metal Bowl
- Zinc, black E coated
- Max. pressure 200 psi
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight Gauge
- Max. pressure 200 psi
- Operating temperature range 40˚F to 160˚F

Internal Float Drain
plastic, metal, brass, Buna N seal
Note: limits bowl temperature and pressure rating
- Operating pressure range 30 to 175 psi
- Operating temperature range 40˚F to 125˚F

KITS
- Internal float drain. 5200

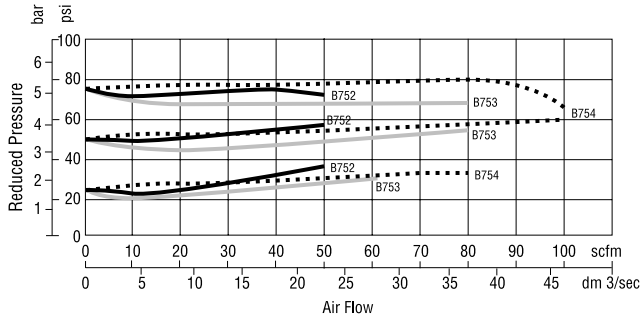
Bowl Kits
- Polycarbonate BKF35
- Metal BKF45M
- Metal with sight BKF45W

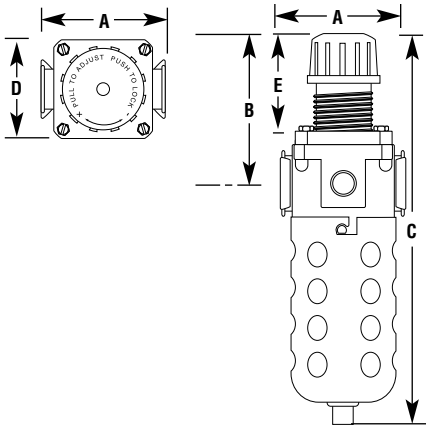
Element Kits
- 40 micron 2-pack EK35
- 5 micron 2-pack EK35-5
- 3 micron absolute 2-pack . . . EK35-3

Diaphragm Kits
- Relieving DK35

Mounting Kits see page 65
- Mounting bracket RBK5
- Panel mount nut PKR35

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	E	WEIGHT (LBS.)
1/4″	B752	50	5 oz.	2 21/32	4 5/32	9 3/4	2 1/4	2 3/4	1.75
3/8″	B753	80	5 oz.	2 21/32	4 5/32	9 3/4	2 1/4	2 3/4	1.75
1/2″	B754	100	5 oz.	2 21/32	4 5/32	9 3/4	2 1/4	2 3/4	1.75

Arrow Pneumatics

LUBRICATORS

Most pneumatically operated equipment such as valves, cylinders, and air tools, require some form of lubrication to reduce equipment maintenance and prolong life.

Air driven devices can be lubricated by using an air line lubricator, a device for adding lubricating oil in aerosol form into the compressed air line. The air passing through the lubricator transports the lubricant to air tools, cylinders or other air driven devices where the lubricant is deposited on moving and sliding surfaces to reduce friction and wear.

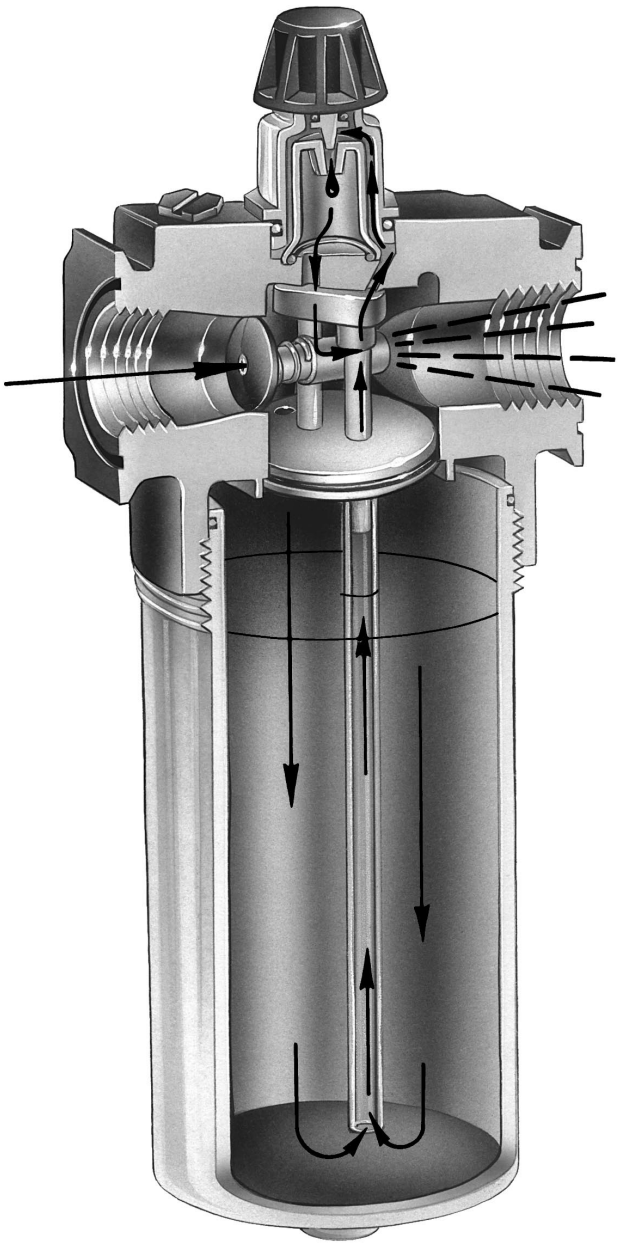
Arrow offers four distinct types: Miniature, Arrowfog, Ultrafog, Wick Style.

Miniature Fog-Type lubricators are designed for low air flow applications where space is limited.

Arrowfog in TriStar and Midflow lubricators are the most popular units for applications that do not require extremely fine oil particles or long distance lubrication. They produce oil particles of 2.5 micron. Arrowfog sends all metered oil down line in fog droplets; accommodates a wide range of applications.

Arrow Ultrafog in Tri-Star and Midflow lubricators produce extremely fine, .4 micron oil particles. Due to their size, these molecules remain in suspension and are carried further downstream than the particles from an Arrowfog. Arrow Ultrafog allows precise adjustment control. Atomizes oil droplets to a fine mist for reclassification in the bowl before sending lighter particles of oil down line.

Arrowick lubricators are economical and reliable for lubricating tools or cylinders that run constantly. The Arrowick automatically maintains the same air-oil ratio regardless of variations in air flow. The average droplet size is 3 microns. Arrowick uses an adjustable saturated wick to send particles or oil down line.



Miniature Fog Lubricators

L1

FEATURES
- 1 oz. polycarbonate bowl
- Optional metal bowl
- Visible drip rate
- Easy to refill
- Fine adjustment screw
- Requires only .1 cfm of air flow to operate
- Automatically adjusts oil mist delivery with air flow variations

OPTIONS
add suffix to part number in alpha order
M Metal bowl L182**M**

SPECIFICATIONS
WARNING! *Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl.*

Body
- Zinc, black E coated

Polycarbonate Bowl
- Max. pressure 150 psi
- Operating temperature range 40˚F to 125˚F

Metal Bowl
- Black coated aluminum
- Max. pressure 200 psi
- Operating temperature range 40˚F to 160˚F

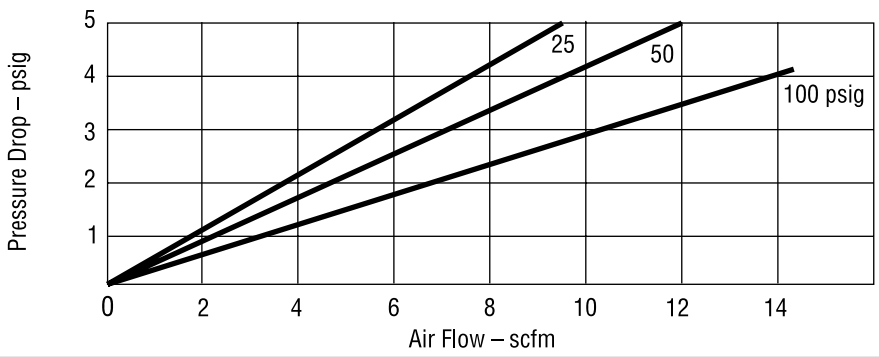
Recommended Oil
- SAE 10 oil or lighter
- Atomized average 2 micron
- .1 scfm to establish drip rate

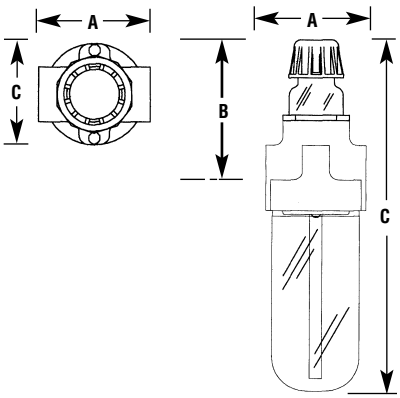
KITS
Bowl Kits
- Polycarbonate BK1811
- Metal BK1811M
- Repair kit RKL1812
- Dome Kit AK35

Mounting Kit see page 65
- Mounting kit FBK3

Feature
- No tools necessary for lubrication adjustment.

PERFORMANCE CHARACTERISTICS





DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
1/8″	L181	16	1 oz.	1 1/2	2	5	.4
1/4″	L182	16	1 oz.	1 3/8	2	5	.4

* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

Tri•Star Series 3 Arrowfog Lubricators

L3

FEATURES

- Aluminum housing
- Oil delivery at low air flow approximately 2 scfm
- Lubricator may be filled without shutting down air line
- 3-position non-rIsing adjustment knob; push to lock, pull to adjust, detach for tamper resistant
- Can be converted on-line to Ultrafog lubricator with interchangeable module Part # RKL452

OPTIONS

add suffix to part number in alpha order

M 6 oz. black coated metal bowl L354**M**

W 6 oz. black coated metal bowl with sight L354**W**

SPECIFICATIONS

WARNING! *Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl.*

Body
- Black E coated aluminum

Polycarbonate Bowl with Bowl Guard
- Max. pressure 150 psig
- Operating temperature range 40˚F to 125˚F

Metal Bowl
- Zinc, black E coated
- Max. pressure 200 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight
- Zinc, black E coated
- Max. pressure range 200 psig
- Operating temperature range 40˚F to 160˚F

Recommended Oil
- SAE 10 oil or lighter
- Atomized average 2 micron

KITS

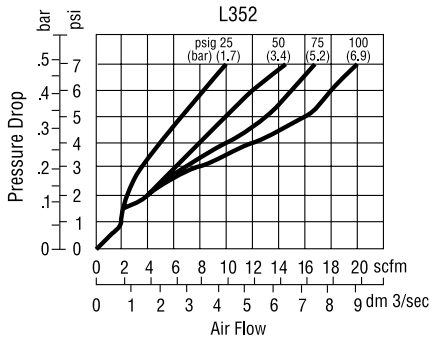
Bowl Kits
- Polycarbonate BKL35
- Metal bowl without sight BKL45M
- Metal bowl with sight BKL45W

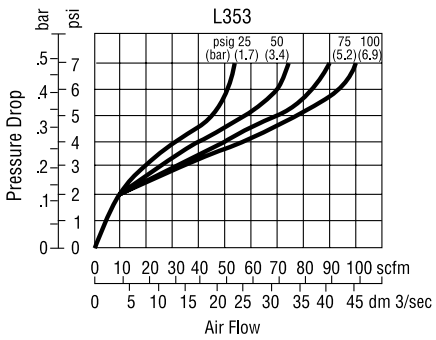
Repair Kits
- For L350 . . . . . RKL352
- Dome kit AK35
- Fill plug kit FK35

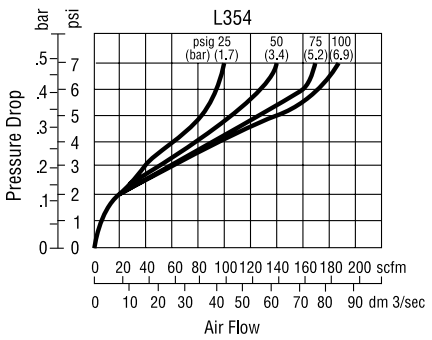
Mounting Kit see page 65
- Mounting kit FBK5

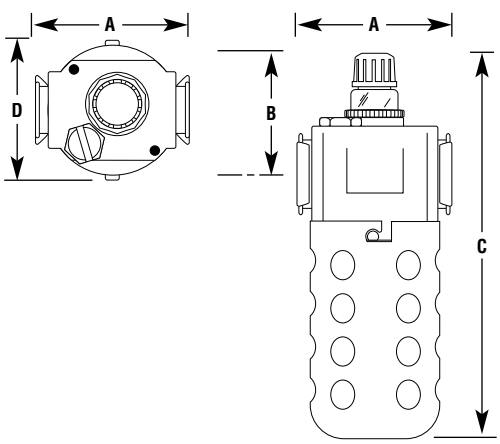
Applications
- Air tools
- Air motors
- Single point lubrication

PERFORMANCE CHARACTERISTICS









DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
1/4″	L352	16	5 oz.	2 3/4	2 1/8	7″	2 1/2	1.0
3/8″	L353	82	5 oz.	2 3/4	2 1/8	7″	2 1/2	1.0
1/2″	L354	142	5 oz.	2 3/4	2 1/8	7″	2 1/2	1.0
1/2″	L352W	142	6 oz.	2 3/4	2 1/8	7″	2 1/2	1.5
1/2″	L353W	142	6 oz.	2 3/4	2 1/8	7″	2 1/2	1.5
1/2″	L354W	142	6 oz.	2 3/4	2 1/8	7″	2 1/2	1.5

* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

MidFlow Series 3 Arrowfog Lubricators L3

FEATURES

- Oil delivery at low air flow approximately 2 scfm
- Lubricator may be filled without shutting down air line
- 3-position non-rising adjustment knob; push to lock, pull to adjust, detach for tamper resistant
- Can be converted on-line to Ultrafog lubricator with interchangeable module Part # RKL472 or RKL482

OPTIONS

add suffix to part number in alpha order

M 10 oz. black coated metal bowl L373**M**

SPECIFICATIONS

Body
- BlackE coated aluminum

Metal Bowl
- Zinc, black E coated
- Max. pressure 200 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight
- Zinc, black E coated
- Max. pressure range 200 psig
- Operating temperature range 40˚F to 160˚F

Recommended Oil
- SAE 10 oil or lighter
- 3 scfm to establish drip rate
- Atomized average 2 micron droplet

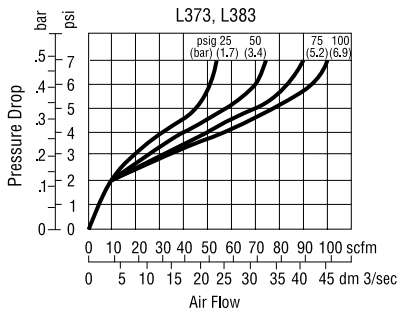
KITS

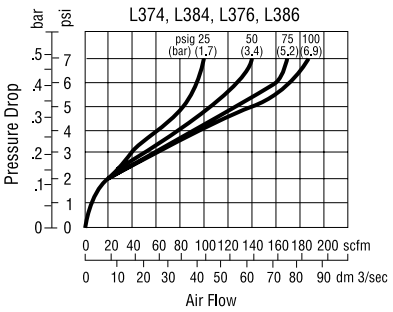
Bowl Kits
- Metal bowl with sight BKL47W
- Metal bowl without sight BKL47M
- Metal bowl with sight BKL48W
- Metal bowl without sight BKL48M

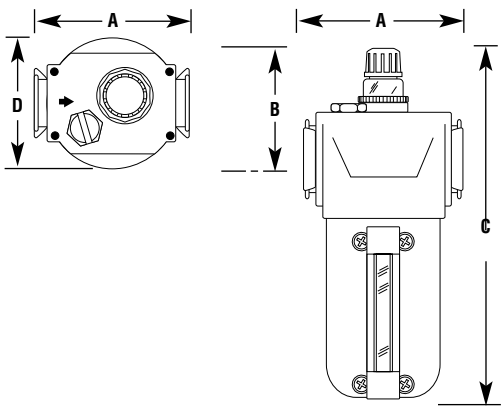
Repair Kits
- For L370 . . . . . RKL372
- For L380 . . . . . RKL382
- Dome kit AK35
- Fill plug kit FK37

Mounting Kit see page 65
- Mounting kit FBK7

PERFORMANCE CHARACTERISTICS







DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
3/8″	L373W	82	10 oz.	3 3/4	2 5/16	8 13/32	3	2.4
3/8″	L383W	82	20 oz.	3 3/4	2 5/16	11 19/32	3	3.3
1/2″	L374W	142	10 oz.	3 3/4	2 5/16	8 13/32	3	2.4
1/2″	L384W	142	20 oz.	3 3/4	2 5/16	11 19/32	3	3.3
3/4″	L376W	142	10 oz.	3 3/4	2 5/16	8 13/32	3	2.4
3/4″	L386W	142	20 oz.	3 3/4	2 5/16	11 19/32	3	3.3

* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

Tri•Star Series 4 Ultrafog Lubricators

L4

FEATURES
- 5 oz. polycarbonate bowl w/steel bowl guard
- Aluminum housing, black coated
- Oil delivery at low air flow approximately 2 scfm
- 3-position non-rising adjustment knob; push to lock, pull to adjust, detach for tamper resistant
- Convert on-line to Arrowfog with interchangeable module #RKL352
- In line modular installation

OPTIONS
add suffix to part number in alpha order
M 6 oz. black coated metal bowl L454**M**
W 6 oz. black coated metal bowl with sight L454**W**

SPECIFICATIONS
WARNING! *Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl.*

Body
- Black E coated aluminum

Polycarbonate Bowl with Bowl Guard
- Max. pressure 150 psig
- Operating temperature range 40˚F to 125˚F

Metal Bowl
- Zinc, black E coated
- Max. pressure 200 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with Sight
- Zinc, black E coated
- Max. pressure range 200 psig
- Operating temperature range 40˚F to 160˚F

Recommended Oil
- SAE 10 oil or lighter
- 2 scfm to establish drip rate
- Atomized average .6 micron
- 1 out of 28 drops travel downstream
- Cannot be filled under pressure

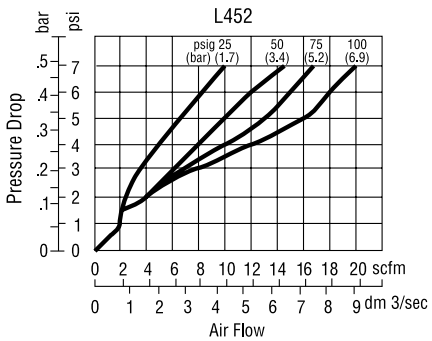
KITS
Bowl Kits
- Metal BKL45M
- Metal with sight BKL45W

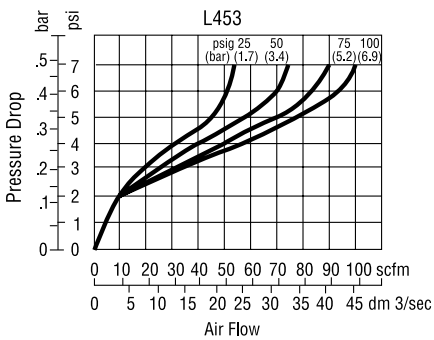
Repair Kits
- Adjustment dome kit AK35
- Fill plug FK35
- For Ultrafog RKL452
- Sight kit WK45

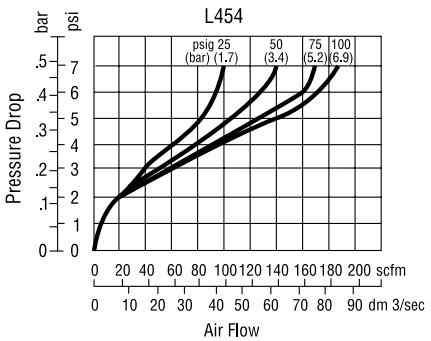
Mounting Kit see page 65
- Mounting kit FBK5

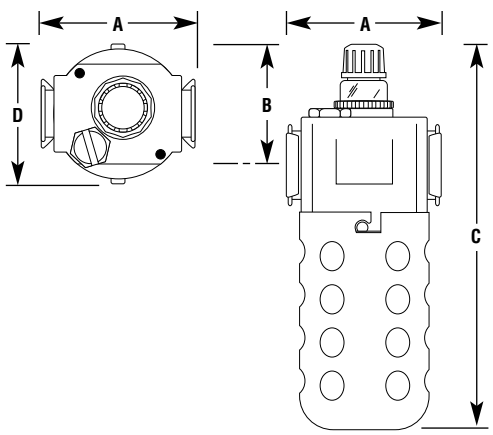
Applications
- Multiple lubrication points

PERFORMANCE CHARACTERISTICS









DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
1/4″	L452	16	5 oz.	2 3/4	2 1/8	7″	2 1/2	1.0
3/8″	L453	82	5 oz.	2 3/4	2 1/8	7″	2 1/2	1.0
1/2″	L454	142	5 oz.	2 3/4	2 1/8	7″	2 1/2	1.0

* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

MidFlow Series 4 Ultrafog Lubricators L4

SPECIFICATIONS

Body
- BlackE coated aluminum

Metal Bowl
- Zinc, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 125˚F

Metal Bowl with Sight
- Zinc, black E coated
- Max. pressure range 200 psig
- Operating temperature range 40˚F to 160˚F

Recommended Oil
- SAE 10 oil or lighter
- 2 scfm to establish drip rate
- Atomized average .6 micron
- 1 out of 28 drops travel downstream
- Cannot be filled under pressure

KITS

Bowl Kits
- Metal bowl without sight BKL47M
- Metal bowl with sight BKL47W

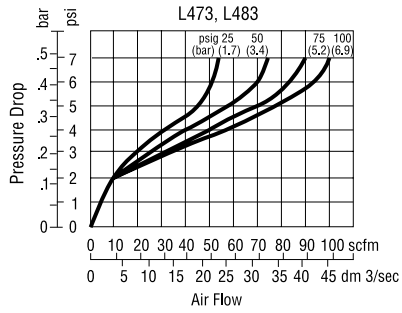
Repair Kits
- For L470/L480 . . . . . RKL482
- Dome kit AK37
- Fill plug kit FK47

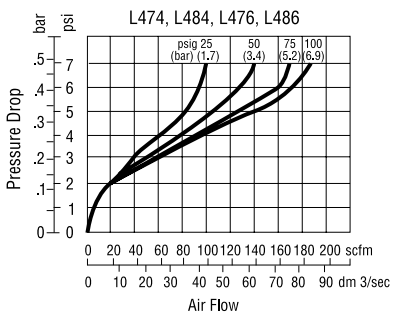
Mounting Kit see page 65
- Mounting kit FBK7

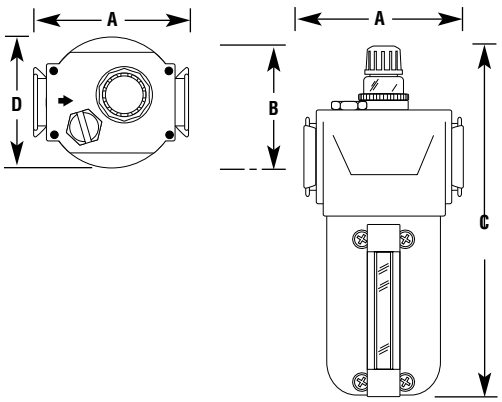
FEATURES
- Aluminum housing
- Oil delivery at low air flow approximately 2 scfm
- 3-position non-rising adjustment knob; push to lock, pull to adjust, detach for tamper resistant
- Convert on-line to Arrowfog with interchangeable module #RKL372 or #RKL382

OPTIONS
add suffix to part number in alpha order
M 10 oz. black coated metal bowl L472**M**

PERFORMANCE CHARACTERISTICS







DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	D	WEIGHT (LBS.)
3/8″	L473W	82	10 oz.	3 3/4	2 5/16	8 13/32	3	2.4
3/8″	L483W	82	20 oz.	3 3/4	2 5/16	11 19/32	3	3.3
1/2″	L474W	142	10 oz.	3 3/4	2 5/16	8 13/32	3	2.4
1/2″	L484W	142	20 oz.	3 3/4	2 5/16	11 19/32	3	3.3
3/4″	L476W	142	10 oz.	3 3/4	2 5/16	8 13/32	3	2.4
3/4″	L486W	142	20 oz.	3 3/4	2 5/16	11 19/32	3	3.3

* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

Arrowick Lubricators

FEATURES

- Simple, trouble free design. It cannot be over-filled, and has greater bowl capacity which extends interval between filling
- Can be used downstream of 4 way valves because it accommodates reverse flow
- Bowl fills all the way to the top
- It can be filled under pressure no need to shut down air
- Tamper-proof internal adjustment
- Porous bronze oil metering diffuser introduces smallest possible oil particles to the air
- No small orifices to clog and stop oil delivery
- Automatically maintains air-oil ratio regardless of variations in air flow

OPTIONS

add suffix to part number in alpha order
W metal bowl w/sight glass . . 4108**W**

SPECIFICATIONS

Body
- Black E coated aluminum

Metal Bowl
- Steel, black E coated
- Max. pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Metal Bowl with sight
- Steel, black E coated
- Max. supply pressure 250 psig
- Operating temperature range 40˚F to 160˚F

Recommended Oil
- SAE 10 oil or lighter

Droplet Size
- 3 micron or less

KITS

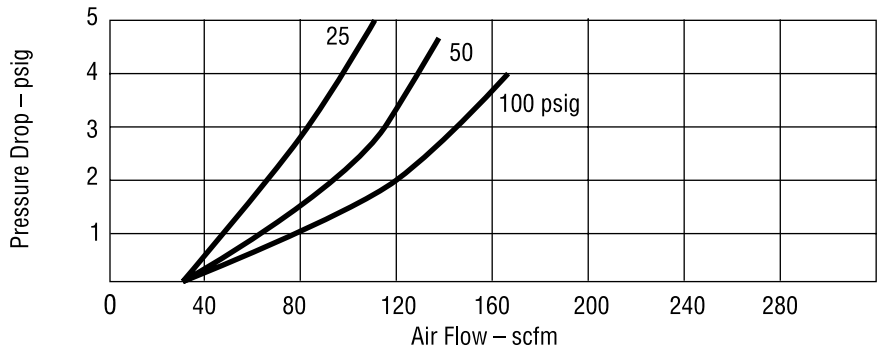
Bowl Kits
- 29 oz. metal BK4106M
- 29 oz. metal with sight BK4106W
- 60 oz. metal with sight BK4106LCM

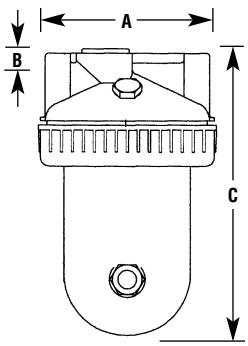
Repair Kits
- For 4106, 4106LCM, 4108, and 4108LCM RK4106
- For 4112 and 4112LCM RK4112
- Sight kit WK35

Applications
- Single point
- Flow can be reversed

Minimum Air Flow for Lubrication	
Model No.	**Air Flow SCFM**
4106	30 SCFM
4106LCM	30 SCFM
4108	30 SCFM
4108LCM	30 SCFM
4112	50 SCFM
4112LCM	50 SCFM

PERFORMANCE CHARACTERISTICS





DIMENSIONS

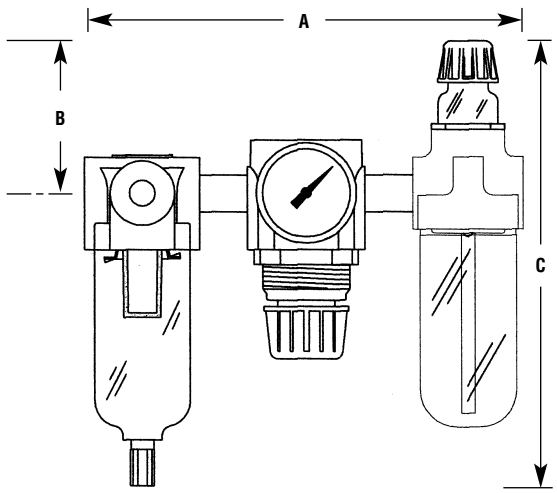
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
3/4″	4106	175	29 oz.	4 7/8	1 1/8	8 7/8	3.5
1″	4108	175	29 oz.	4 7/8	1 1/8	8 7/8	3.5
1 1/2″	4112	175	29 oz.	5 1/4	1 1/4	9	3.5
3/4″	4106LCM	175	60 oz.	4 7/8	1 1/8	13 1/2	6.0
1″	4108LCM	175	60 oz.	4 7/8	1 1/8	13 1/2	6.0
1 1/2″	4112LCM	175	60 oz..	5 1/4	1 1/4	13 1/2	6.0

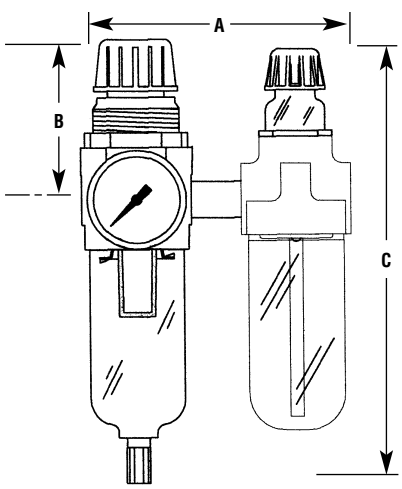
* Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

Miniature Filter/Regulator/Lubricator Combinations

	PIPE SIZE	COMBINATION NUMBER	COMPONENTS			BOWL CAPACITY (OUNCES)	APPROX. DIMENSIONS			APPROX. WEIGHT (LBS.)
			FILTER	REGULATOR	DROP LUBE		A	B	C	
Miniature	1/8″	7681	F300-01	R161G	L181	1	5 1/4″	2″	6 1/2″	1.3
	1/4″	7682	F300-02	R162G	L182	1	5 1/4″	2″	6 1/2″	1.3
			FILTER/REGULATOR							
	1/8″	7621	B741G		L181	1	3 1/4″	2 3/16″	6 1/4″	1.1
	1/4″	7622	B742G		L182	1	3 1/4″	2 3/16″	6 1/4″	1.1

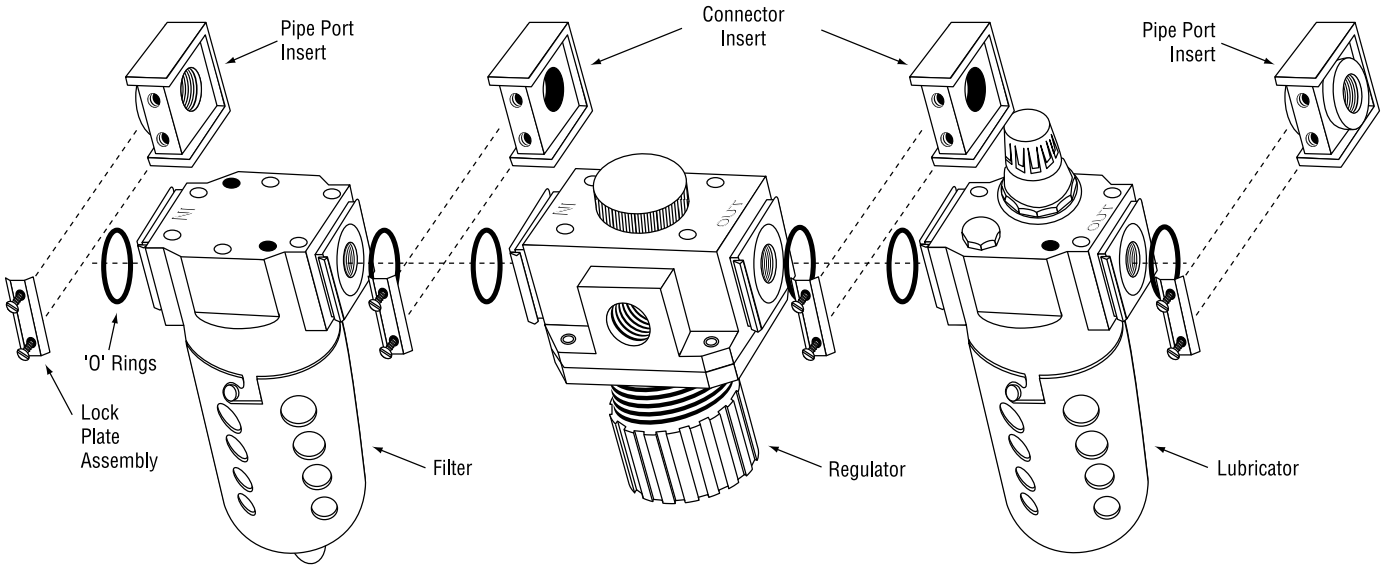
NOTE: Combinations with Regulators include gauge.
Combinations are boxed assembled.



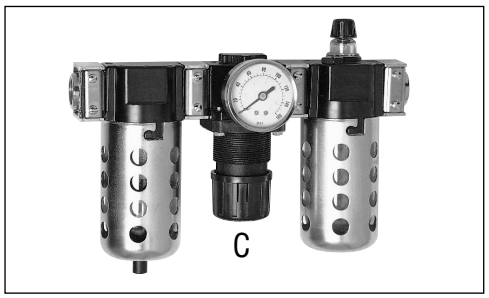


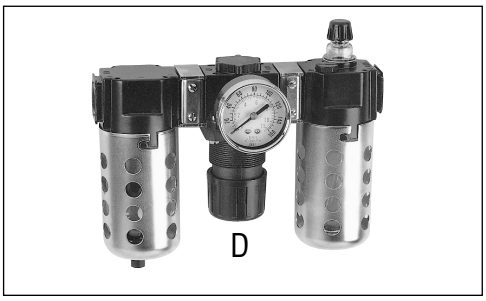
High Performance • Flexibility • Compact • Lightweight

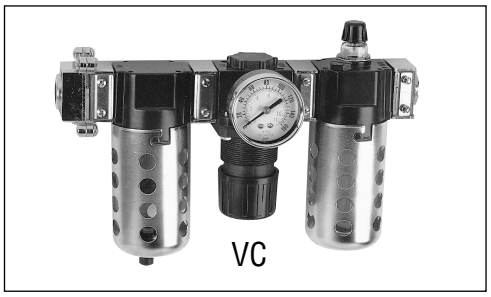
- A screwdriver is the only tool needed to connect or disconnect units
- Insert interlocking feature allows simple installation in any location
- Installation or removal from one plane – without disturbing existing piping
- Regulator mounting can be either up or down
- Unique design allows side, top, individual and custom mounting
- Regulator and lubricator adjustments are made thru three position – tamper resistant adjusting knobs.
- Engineered to permit use with standard size pipe nipples
- Available in ¼″, ⅜″ and ½″ pipe sizes and insert pipe sizes ¼″, ⅜″, ½″ and ¾″
- Special optional diverter blocks supply air to secondary locations
- Unlimited adaptation to air preparation systems

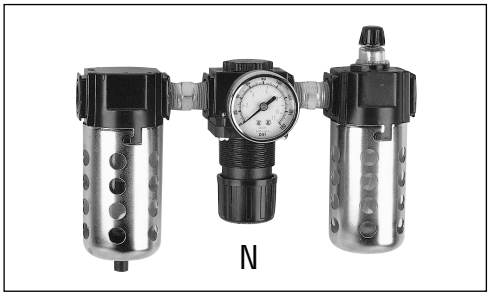


Tri•Star Filter/Regulator/Lubricator Combinations







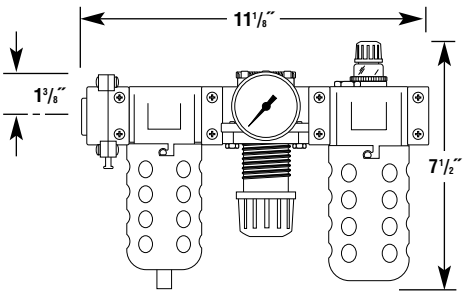


PIPE SIZE	STYLE	COMBINATION NUMBER*	COMPONENTS			BOWL CAPACITY (OUNCES)	APPROX. WEIGHT (LBS.)
			FILTER	REGULATOR	DROP LUBE		
1/4″	**Tri•Star***	33352	F352	R352G	L352	5	3.3
1/4″	(please reference chart below for further Tri•Star information)	33452	F352	R352G	L452	5	3.3
3/8″		33353	F353	R353G	L353	5	3.3
3/8″		33453	F353	R353G	L453	5	3.3
1/2″		33354	F354	R354G	L354	5	3.4
1/2″		33454	F354	R354G	L454	5	3.4
3/4″	*not available with D option	*33356	F354	R354G	L454	5	3.4
			FILTER/REGULATOR				
1/4″		70352	B752G		L352	5	3.0
3/8″		70353	B753G		L353	5	3.0
1/2″		70354	B754G		L354	5	4.1
3/4″	*not available with D option	*70356	B754G		L354	5	4.1

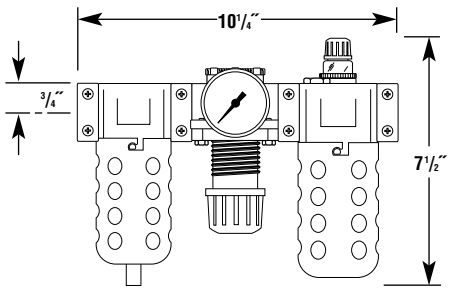
NOTE: Combinations with Regulators include gauge. Combinations are boxed assembled.

STYLE	COMBINATION NUMBER				
	FILTER STYLE	REGULATOR STYLE	LUBRICATOR STYLE	SERIES	PIPE SIZE
C – With End Port Inserts D – Without End Port Inserts VC – With OSHA Lockout N – Nipple	0 – No Filter 3 – Particulate 4 – .09 Micron Oil Removing 5 – .03 Oilescer 6 – Vapor Removal 7 – Filter/Regulator	0 – No Regulator 3 – Standard Relieving	0 – No Lubricator 3 – Arrowfog 4 – Ultrafog	5 – 5 oz. Plastic Bowl or 6 oz. Metal Bowl M 6 oz. Metal Bowl with sight W	2 – 1/4″ 3 – 3/8″ 4 – 1/2″ 6 – 3/4″

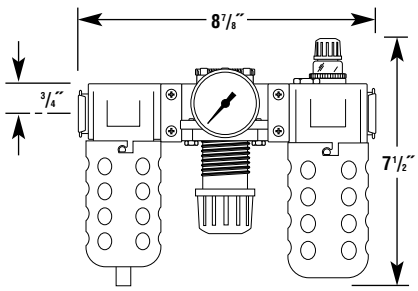
VC3 Unit



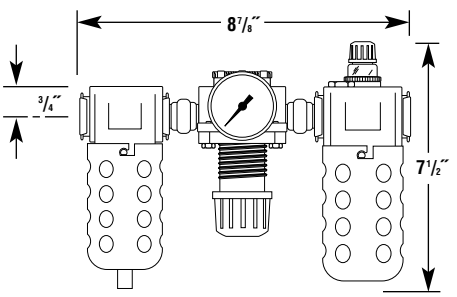
C3 Unit



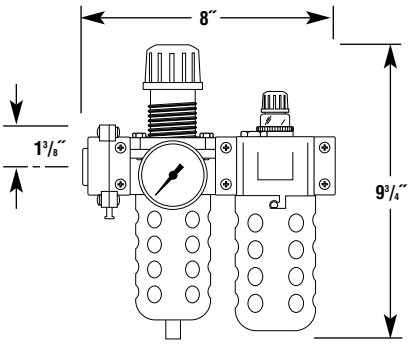
D3 Unit



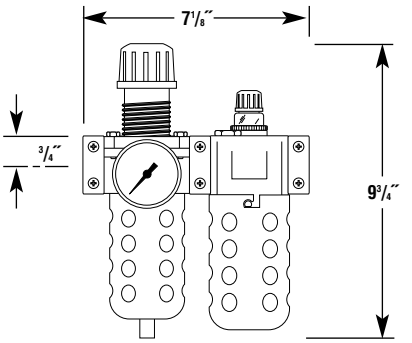
N3 Unit



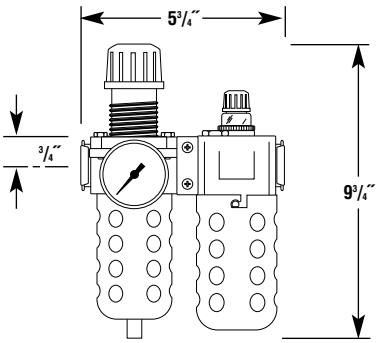
VC7 Unit



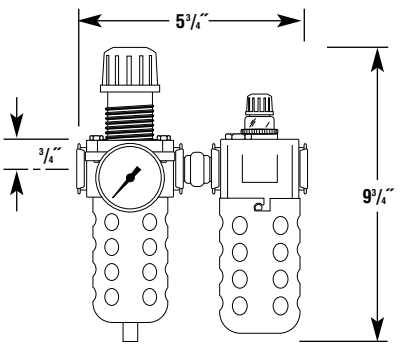
C7 Unit



D7 Unit



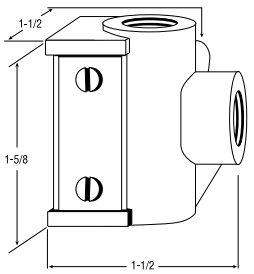
N7 Unit



Tri•Star Inserts & Accessories

Tri•Star Outboard Diverter

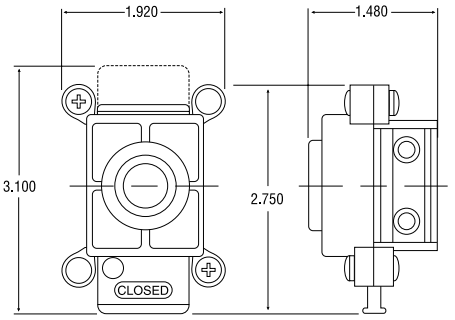
The Tri•Star Outboard Diverter block attaches to the outlet port of any Tri•Star unit and allows air to be diverted to up to 3¼" outlets. Includes locking plate and "O" rings, and it will accept the Tri•Star mounting bracket.



Model No.	Description
DK54	¼" NPT Outboard Diverter Kit

OSHA Lockout, 3-Way Valve

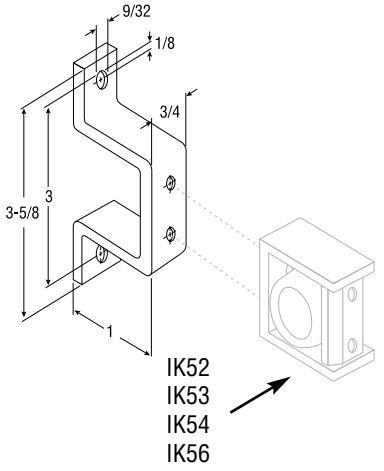
Arrow's 3-way OSHA lockout valve exhausts all downstream pressure when closed and can be locked in the closed position with customer supplied pad lock. These valves will handle all Tri•Star system air flows and will exhaust 6 scfm @ 100 psi.



Model No.	Description
V252	¼" OSHA Lockout Valve
V253	⅜" OSHA Lockout Valve
V254	½" OSHA Lockout Valve

Mounting Bracket

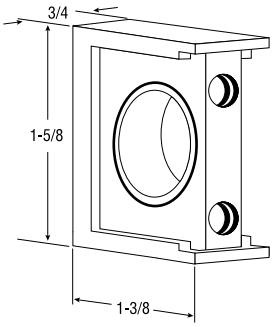
IBK5 wall mounting bracket for Modular Tri•Star FRL units permit bracket mounting from inlet and outlet ports, slide valve and diverter blocks



Modular Components & Accessories

Tri•Star Connector Insert

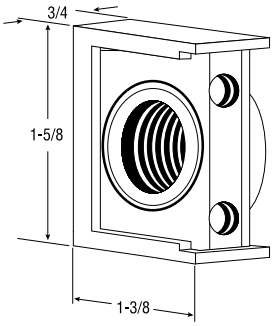
Tri•Star insert slides are designed to guide the insert to an interlocking position on the unit body. The design of the slide also provides a unique safety feature, should the insert plates be removed while the air line is under pressure, the interlocking slide will prevent blowing away.



Model No.	Description
IK50	Tri•Star Connector Insert

Tri•Star Pipe Port Insert

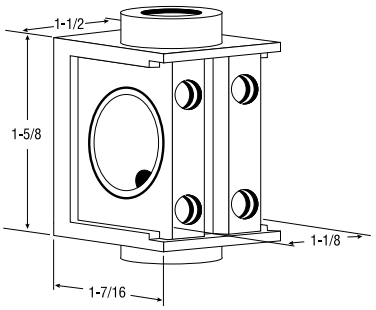
Any of four separate Tri•Star ports permit instant pipe sizing of every Tri•Star filter, regulator and lubricator. Available in ¼", ⅜", ½", and ¾" pipe sizes for inlets and outlet ports. Zinc diecase metal. A special Tri•Star locking design prevents backing out of lock plate screws and keeps the screws in place when the plate is removed.



Model No.	Description
IK05	"O" Rings for Modulars
IK52	¼" NPT Pipe Port Insert
IK53	⅜" NPT Pipe Port Insert
IK54	½" NPT Pipe Port Insert
IK56	¾" NPT Pipe Port Insert

Tri•Star Diverter

The unique Tri•Star diverter permits a portion of filtered air to be branched before entering the regulator and sends it to another location; or when installed after the regulator, it will divert a portion of regulated air. The diverter is also used when pressure drop readings are required.

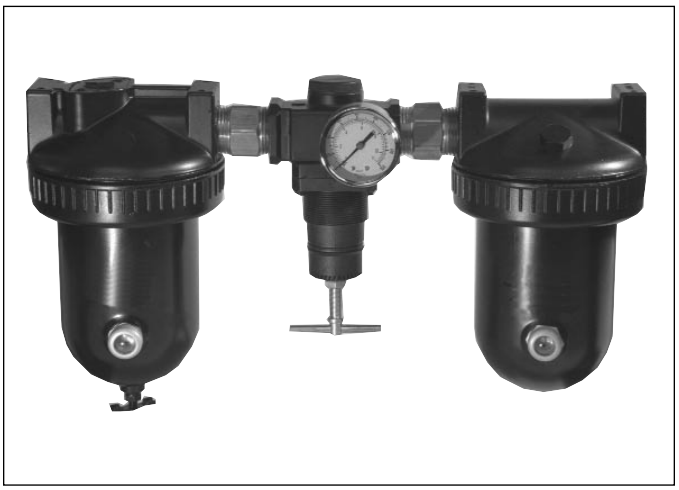


Model No.	Description
DK52	¼" NPT Inboard Diverter Kit
DK53	⅜" NPT Inboard Diverter Kit

MidFlow & High Flow Filter/Regulator/Lubricator Combinations

MidFlow

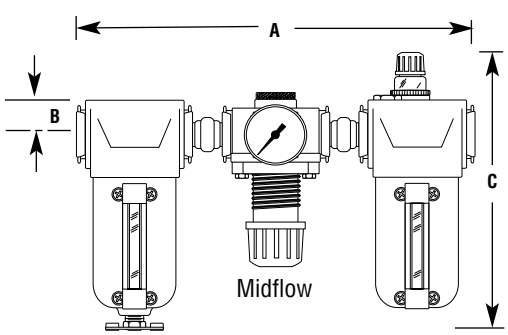
High Flow



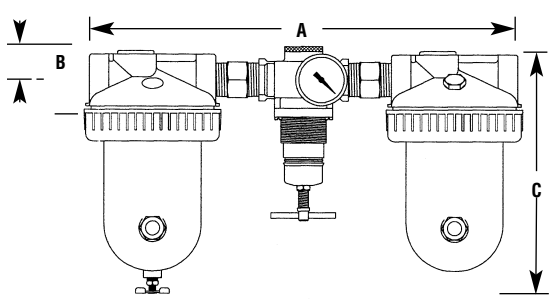
	PIPE SIZE	COMBINATION NUMBER	COMPONENTS			BOWL CAPACITY (OUNCES)	APPROX. DIMENSIONS			APPROX. WEIGHT (LBS.)
			FILTER	REGULATOR	DROP LUBE		A	B	C	
Mid Flow	3/8″	N33373W	F373W	R373	L373W	10	12 5/8	2 1/4	8 1/2	9 1/2
	3/8″	N33383W	F383W	R373	L383W	20	12 5/8	2 1/4	11 1/2	10 1/4
	1/2″	N33374W	F374W	R374	L374W	10	12 5/8	2 1/4	8 1/2	9 1/2
	1/2″	N33384W	F384W	R374	L384W	20	12 5/8	2 1/4	11 1/2	10 1/4
	3/4″	N33376W	F376W	R376	L376W	10	12 5/8	2 1/4	8 1/2	9 1/2
	3/4″	N33386W	F386W	R376	L386W	20	12 5/8	2 1/4	11 1/2	10 1/4

STYLE	COMBINATION NUMBERING SYSTEM FOR MIDFLOW					
	FILTER STYLE	REGULATOR STYLE	LUBRICATOR STYLE	SERIES	PIPE SIZE	Bowl Type
N – Nipple	0 – No Filter 3 – Particulate 4 – .09 Micron Oil Removing 5 – .03 Oilescer 6 – Vapor Removal	0 – No Regulator 3 – Standard Relieving	0 – No Lubricator 3 – Arrowfog 4 – Ultrafog	7 – 10 oz. Metal Bowl 8 – 20 oz. Metal Bowl	3 – 3/8″ 4 – 1/2″ 6 – 3/4″	**W-Metal bowl w/sight** **M-Metal Bowl w/o sight**

	PIPE SIZE	COMBINATION NUMBER	COMPONENTS			BOWL CAPACITY (OUNCES)	OPTIONAL MOUNTING BRACKET	APPROX. DIMENSIONS			APPROX. WEIGHT (LBS.)
			FILTER	REGULATOR	DROP LUBE			A	B	C	
High Flow	1″	3548M	F329	R378T	4108	29	ACA-7 (Req. 2)	15 7/8″	1 3/16″	7 1/8″	11.8



Midflow



Highflow

IN-LINE DESICCANT DRYER

The compressed air flow path through the dryer assures desiccant packing and maximum utilization of the desiccant's adsorption qualities. The compressed air enters the dryer (1) and is dispersed through a 70 micron polypropylene element (2) for the removal of particles. The air is then distributed uniformly through the full desiccant bed (3) to the bottom of the intake tube (4). The intake tube is protected by a 40 micron porous bronze element (5). As the desiccant adsorbs moisture, a dramatic and highly visible color change from dark blue to light pink is evident. The color change works its way through the desiccant as the adsorbative qualities of the desiccant are diminished. Once the color change is visible through the exclusive sight dome (6), the full desiccant bed has reached its maximum drying capacity and must be either changed or regenerated. Dry air exits through the inside diameter of the intake tube (7) and out the outlet port of the unit (8).

ADSORPTION

Adsorption means the attraction of a substance – the adsorbate – to, and its subsequent accumulation on, the surface of a solid material – the adsorbant – which is caused by physical forces of attraction. Adsorbants are substances which are permeated by a large number of very fine pores which give rise to a large internal surface area. This, in turn, determines the adsorption capacity of the adsorbant, since a large internal surface can accommodate more adsorbate. Other factors which influence the amount of adsorbate are: temperature, relative humidity and pressure.

REGENERATION PROCESS

Regeneration is accomplished by heating the desiccant to a temperature of 275°F in a drying oven. Regeneration is complete when the desiccant returns to its blue color.

For extended life and protection of the desiccant and equipment being serviced, an F3 Prefilter and F5 Coalescing filter should be used as a prefiltering system ahead of the dryer.

D05-03

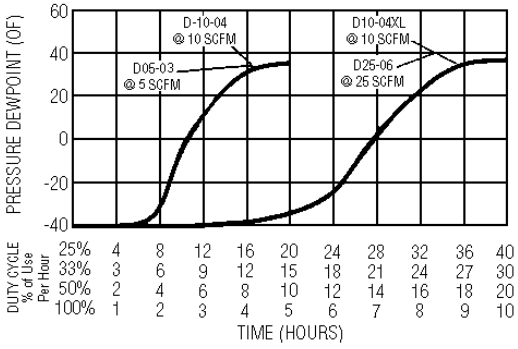
D10-04

D25-06

In-Line Desiccant Dryer

FEATURES

- Available in capacities from .5 to 50 scfm
- Compact sizes are ideal for portable or original equipment
- Drying efficiency can be tailored to your needs down to -30°F pressure dew point
- Highly visible color change from blue to pink through exclusive sight-glass highlights the need for service
- Exclusive hard spherical bead resists attrition and dusting and can be recharged
- Exclusive intake flow design takes air through entire supply of desiccant for maximum drying capacity
- Built-in particulate after-filter prevents downstream dust
- Needs no electrical connection
- No "purge air" lost as with regenerative dryers



SPECIFICATIONS

Bowl

- D05-03: Metal with sight gauge
- D10 & D 25: Metal with sight gauge
- D10-04XL: Metal with sight gauge

Desiccant

- Silica gel

Maximum Pressure

- 250 psig

Operating Temperature Range

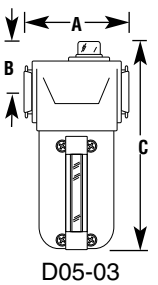
- 0˚F to 120˚F

APPLICATIONS

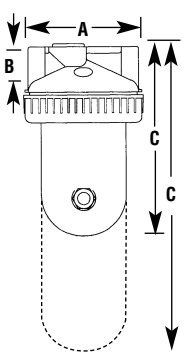
- Always install an F5 coalescing filter upstream of the D05, D10 & D25
- For compressed air service only
- Not to be used on life support systems or breathing air systems
- Dry air for parts blowoff
- Paint spray systems
- Air gauging equipment
- Laboratory air

KITS

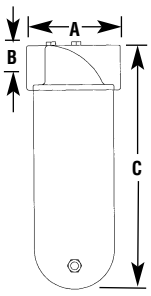
Replacement Desiccant
No. 34189 – 6 pack of 1 qt. jars
No. 34417 – 4-1 gallon jugs
Bracket Mounting Kit - DBK10 see pg. 65
Check the exhaust element to avoid high pressure drop due to desiccant dust entrapment. We recommend replacement of the exhaust element.
D05, D10 Use:
Element Kit EKD10 (1-pack each)
D10XL Use
Element Kit EKD10XL (1-pack each)
D25 Use: Element Kit EKD25 (1-pack each)



D05-03



D10-04
D10-04XL



D25-06

DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	MAX. FLOW SCF*	DESICCANT WEIGHT (LBS.)	DESICCANT CHARGE	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
3/8"	D05-03	.5 to 5	830	5/8	10 oz.	3 3/4	1 1/8	8 1/4	2.7
1/2"	D10-04	5 to 15	2500	1 1/4	1 Qt.	4 7/8	1 1/8	8 7/8	5
1/2"	D10-04XL	15 to 25	5000	2 1/2	2 Qt.	4 7/8	1 1/8	13 1/2	7
3/4"	D25-06	25 to 50	12500	6	1 Gal.	6 3/4	2	17 3/4	23

* SCFM and SCF based on 70°F inlet temp. @ 100 psig

StageAir Drying System

- The StageAir Drying System is a point-of-use drying system and is protected by an OSHA Lockout valve which exhausts all downstream pressure when closed, and can be locked in the closed position with customer supplied padlock, exhaust 6 SCFM at 100 PSIG to prevent element damage.

  Note: When pressurizing, open slide valve slowly to prevent element burst.

HOW IT WORKS

FIRST AND SECOND STAGE

- The StageAir desiccant air drying system begins with the dual stage integral filter/regulator
- First, the air enters the particulate filter, which has a 5 micron cleanable sintered bronze element. In this stage, corrosive moisture, pipe scale, dirt and rust are removed from the air line protecting the precision parts in the regulator.
- Next, the air enters a high-performance regulator, which reduces primary pressure to a desired pressure setting.

THIRD STAGE COALESCING FILTER

- During Stage 3, fine filtration takes place. Here, 99.99 percent of oil aerosols and microscopic particles down to .01 micron absolute are removed from the air. The pop-up indicator alerts customer that an element change is necessary.

FOURTH STAGE DESICCANT AIR DRYER

- As the air enters the desiccant dryer, it is dispersed through a 70 micron element. The element distributes air evenly through the desiccant bed. The desiccant absorbs the water vapor from the air, producing a –40°F pressure dew point.
- To remove traces of desiccant dust before the air leaves the system, the air passes through a 40 micron filter element. The air is now clean and dry, and has been properly treated for use with your air operated system.
- The clear indicator sight glass shows a color change in the desiccant from blue to pink which indicates a desiccant recharge.

OPTIONS

To order options for the VC7500 series, simply add the appropriate suffix, as listed below, to the part number in the alphabetical/numerical order.

3 3 micron absolute element (particulate filter)
F Float drain
J Overnight Drain

KITS

- Internal Float Drain 5200

Element Kits

- 5 micron EK35-5
- .01 micron EK55A

Desiccant Kit

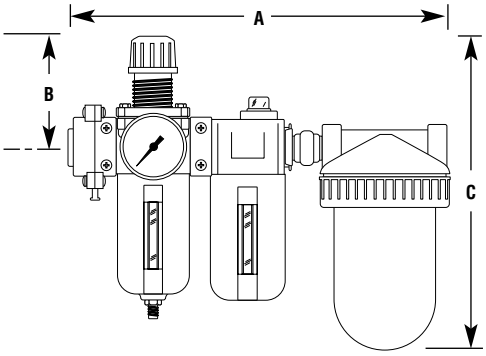
- 6-Pk. of 1 Qt. Jars 34189
- 4 - 1 Gal. Jugs 34417

Mounting Kit see page 65

- Mounting kit ABK-10

Applications

- Paint Spray
- Air Gauging Equipment
- Lab Air



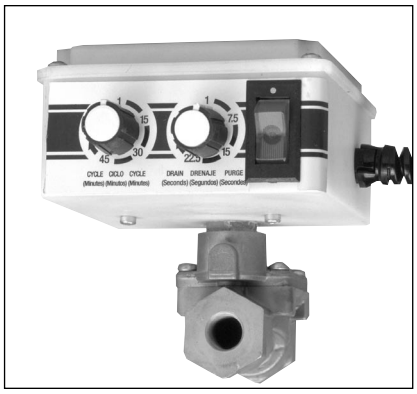
DIMENSIONS

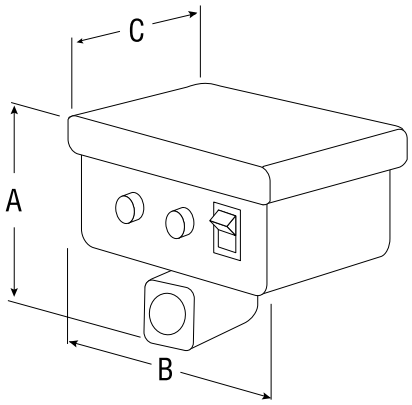
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	MAX. FLOW SCF*	DESICCANT WEIGHT (LBS.)	DIMENSIONS (INCHES) A	B	C	WEIGHT (LBS.)
1/2″	VC7510	5 to 15	2,500	1 1/4	14 1/4	4	11 1/4	10
1/2″	VC7510XL	15 to 25	5,000	2 1/2	14 1/4	4	16 1/4	13.5
3/4″	VC7525	25 to 50	12,500	6	16 1/2	4	20 1/8	24.25

* SCFM and SCF based on 70°F inlet temp. @ 100 psig

ACCESSORIES

Economatic Drains





Arrow developed the **heavy duty** ECONOMATIC drain valve to be a low cost answer to leaking, clogging, noise and other problems caused by float-type drains.

A solenoid controlled by a solid state timer opens and closes the ECONOMATIC drain valve in 1 to 60 minute cycle times and 1 to 30 second blow down times. Both times are individually adjusted.

The drain is designed with a manual override switch with indicator light.

ECONOMATIC drains also feature a spring loaded softseat solenoid which eliminates valve noise and assures leak-proof shutoff.

Installation of the drain is simple and quick – thread on and plug in.

SPECIFICATIONS

Adjustable Cycle Time
- 1-60 minutes

Adjustable Drain Time
- 1-30 seconds

Maximum Working Pressure
- 200 psig

Maximum Fluid Temperature
- +165˚F
- NEMA one enclosure
- Voltage: 115V / 1 ph / 60Hz
- 0.25 amps
- Buna-N seals
- 6´ heavy duty grounded power plug

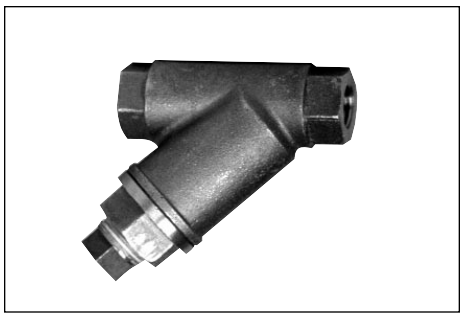
Purge Rate
- 16 scfm open flow @ 100 psig

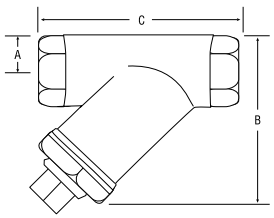
Mounting Kit see page 65
- Mounting kit BR5702

DIMENSIONS

Model No.	Connection NPT	Dimensions (inches) A	B	C	Weight
5702S	1/4″	3 1/4″	3 15/16″	4 3/16″	1.365
5704S	1/2″	4 1/16″	3 15/16″	4 3/16″	1.745

Y Strainer – furnished with each Economatic Drain





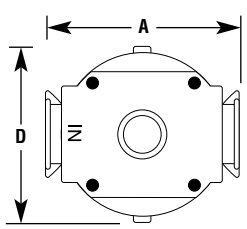
A Y Strainer installed ahead of an external drain, traps large debris and sludge; prevents malfunctions and extends the life of automatic drains.

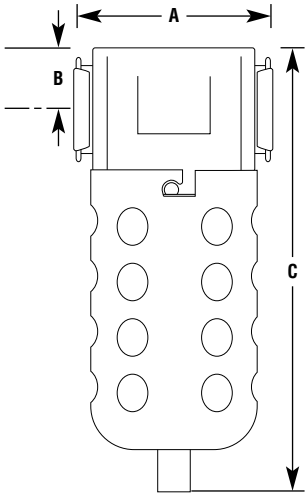
FEATURES
- Cast brass manufactured in the U.S.
- 300 psi maximum working pressure
- 50 mesh stainless steel screen can be cleaned or replaced without removal of strainer from the line
- 3/8″ removable plug for quick draining

DIMENSIONS

Model No.	Connection NPT	Dimensions (inches) A	B	C	Weight
S202	1/4″	15/32″	2 27/64″	2 11/16″	10.5 oz.
S204	1/2″	11/16″	2 5/8″	2 11/16″	12 oz.

T53 Automatic Drain





APPLICATIONS
- Drop Leg Drain
- External Filter Drain

OPTIONS
M Metal bowl T53**M**
W Metal bowl with sight T53**W**

The T53 series float type drain is provided with a top threaded port. This drain features a protective stainless steel screen with an umbrella baffle, providing a large sump area for oil sludge and dirt. It is used to give continued performance and low maintenance to drain accumulated water and oil from drain lines, receiver tanks, condensate drop legs and filters.

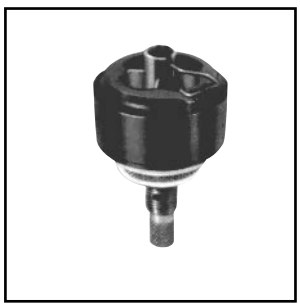
DIMENSIONS

Model No.	Connection FPT	Dimensions (INCHES) A	B	C	D	Weight (lbs.)
T53-02	1/4″	2 3/4	3 1/4	6 1/2	2 1/4	1.0
T53-04	1/2″	2 3/4	3 1/4	6 1/2	2 1/4	1.0

SPECIFICATIONS

Bowl	Pressure Range	Temperature Range
Plastic	30-150 psi	40°F to 120°F
Metal	30-175 psi	40°F to 120°F

Internal Float Drain - 5200



Automatically drains collected liquids when internal float indicates accumulation. Saves air loss. For standard size filter.

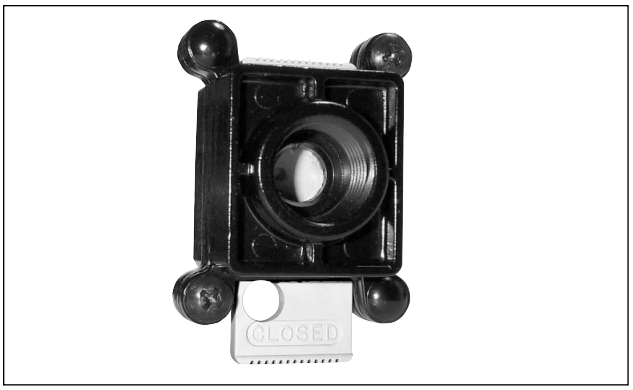
Overnight Bowl Drains

Arrow's Automatic Overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less. Available for either plastic or metal bowls.

	Kit Ordering #
Model J - For plastic bowls - push to manually drain	32008
Model K - For metal bowls - twist to manually drain	CKFK

Accessories

Slide Valve

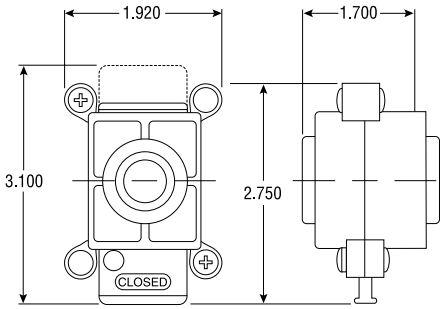


Arrow's new slide valve is a 3 way OSHA lockout valve which exhausts all downstream pressure when closed, and can be locked in the closed position with customer supplied padlock.

3-Way Slide Valves (Open or close and exhaust) Meet O.S.H.A. Lockout Standard 29CFR 1910.147 - The 3-way slide valve is for use in the main line, upstream of equipment. When closed, it shuts off the upstream air and exhausts the downstream air.

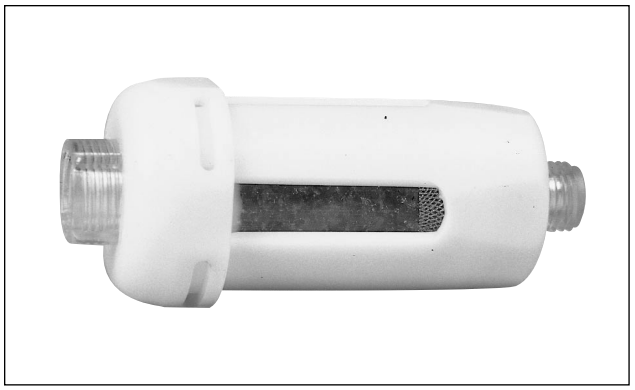
Body is black coated zinc. Slide is 5% Teflon, high-impact, safety yellow plastic. Seals are pre-lubricated Buna O-rings. Screws are black coated steel.

Maximum operating pressure: 250 PSIG
Maximum operating flow: 140 SCFM
Operating temperatures: 35°F to 150°F
Exhaust bleed at 100 PSI: 7 SCFM



Valve Type	Standard Line With Threaded Ports Model	Port Size
3 Way OSHA Lockout Valve Customer to Supply Lock	V202	1/4"
	V203	3/8"
	V204	1/2"

Mini In-Line Desiccant Dryer (-30°F Dew Point)



Used at the point-of-use, this **patented**, disposable, mini in-line desiccant dryer removes all traces of water vapor, oil vapor and dirt. It is often used directly upstream of blow guns or spray guns as final protection for critical parts blow off and paint spraying. Install in either direction; it functions in both directions. A 40 micron, porous bronze element removes fine dirt particles, an oil removing media removes oil vapor, and desiccant beads adsorb water vapor. The see-through housing shows desiccant color change, which indicates that the dryer needs to be replaced.

SPECIFICATIONS

Housing

- Polycarbonate material allows clear desiccant visibility

Guard

- Nylon guard

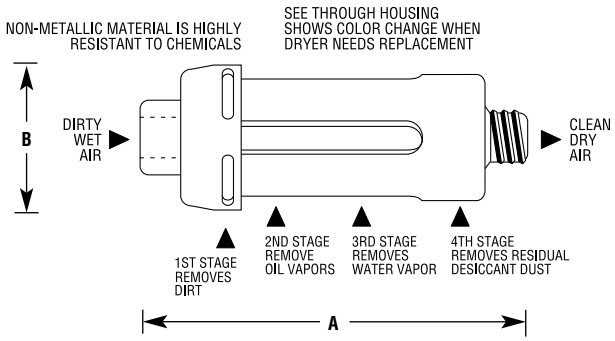
Maximum Flow Capacity: 15 scfm

Maximum Pressure: 125 psi

Maximum Temperature: 130˚ F

APPLICATIONS

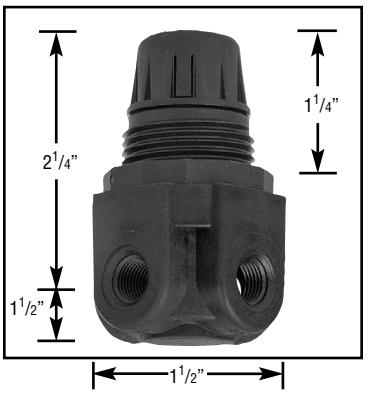
- Parts blow off
- Paint guns



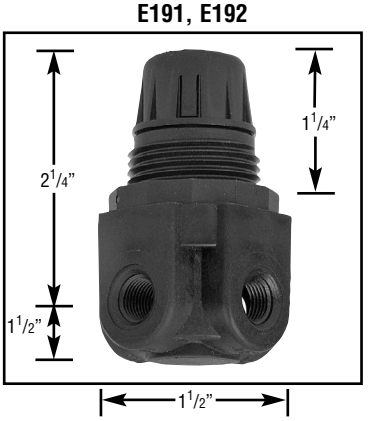
DIMENSIONS				
Connection NPT/FPT	Model No.	Dimensions (Inches) A	B	Weight
1/4"	DFD-10	3 3/4"	1 11/16"	2.8 oz.

Accessories

E291, E292



E191, E192



Miniature Relief Valves

Miniature, diaphragm operated relief valves with exceptional sensitivity. Ideally suited for applications requiring gradual proportional relief. 3 position knob pushes to lock and can be removed for tamper resistance.

Ordering Information

Pipe Size	Model No.	Description
1/8"	E291	All Plastic non-corrosive parts.
1/4"	E292	
1/8"	E191	Die cast black coated body, brass seat.
1/4"	E192	Buna N Diaphragm

Specifications
- E291, E191 all 1/8" ports
- E292, E192 1/4" ports
- With 1/8" gauge ports

Maximum Pressure Range
- 150 PSI

Options
B - 2-Position Mechanical Lockout Knob
G - Gauge (0-160 psi)
I - Instrumentation pressure, 1 - 15 psig

Maximum Temperature Range
- 40°F to 120°F

L - low pressure 0 - 50 psig
P - panel mount nut
U - No Gauge Ports
V - All 1/4" Ports (4)

Air Relief Capacity - SCFM

Range (psig)	Instrumentation Spring Range 1 to 15		Low Pressure Spring Range 15 to 30		Standard Pressure Spring Range 50 to 125	
Set Pressure (psig)	5.0	10.0	20.0	40.0	60.0	80.0
Rated Flow @ 10%*	.1	.3	.5	4.0	.2	5.5
Rated Flow @ 20%*	.3	.7	2.8	15.0	6.5	14.0
Rated Flow @ 30%	.5	2.3	6.8	25.0	15.0	23.0

Reseat @ ±1% of Set Pressure
1) Rated flows in SCFM are taken at percentage of pressure over set pressure.
2) The relief valve will not function as a pressure regulator - excess pressure must be vented to atmosphere.

PRESSURE SWITCH

The PDA4 pressure switch can be installed anywhere in a pneumatic or hydraulic system. It is often used to protect air compressors and pneumatically operated equipment from damage caused by over-pressurization. The unit can be set in a normally open or closed position in an adjustable actuation range from 25 PSIG to 95 PSIG with ± 2% repeatability. The pressure switch has standard 18" wire leads of 300 V, 22 SWG. For simple installation, thread the unit into the gauge port of a regulator or pipe tee.

Construction: Zinc die cast and plastic housing, and NEMA 13 electrical enclosure which is U.L. approved.

Max. operating pressure: 300 PSI

Operating temperatures: 35°F to 180°F

Part No.	NPT	Overall Length	Dia.	Wt. Lbs.	Voltage	Inductive	Resistive
PDA4	1/4"	1 5/8"	1 1/8"	.25	125/150/VAC	5 AMP	7 AMP

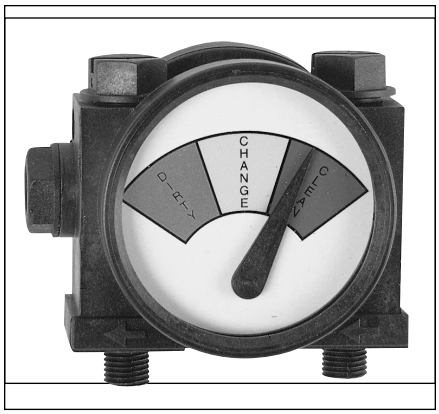
Standard Electrical Circuit

Wire Color	Circuit
Black	Common
Green	Normally Closed
Red	Normally Open

Note: 20% differential for reset, and 1% repeatability when operated within recommended conditions.

Pressure Gauges & Accessories

Delta 'P' Gauge



Reed Switch Specifications			
Max. Voltage Switching	Max Switch Current	Max. Carrying Current	Contact Rating
100 AC/DC	.30 AMPS	1 AMP	10 VA

FUNCTION
Allows exact determination of pressure drop across element. Divided into three sections, each marked for easy understanding. The differential pressure gauge is the best tool available for determining element maintenance requirements.

Color	Indicates	Pressure Drop
Green	Clean	0-6 psi
Yellow	Change	6-9 psi
Red	Dirty	9-12 psi

Maximum Pressure:
- 300 psig / 20 bar

Maximum Temperature:
- 200˚ F / 93˚ C

Weight:
- .33 Lb. / 1.5 Kg

Bolt Threads:
- $^{3}/_{8}$ -24 Inches

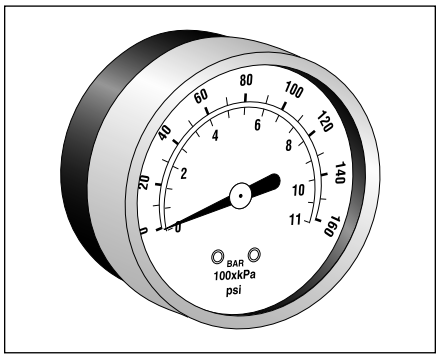
Bolt Material:
- Glass filled Nylon

GAUGE MODELS
- DP-10A
  Replacement unit only
  Basic model with $^{3}/_{8}$-24 slotted bolts
- DP-10B
  Gauge with Remote Mounting Block

KITS AND ACCESSORIES
- MK-10
  Mounting Kit for vertical or wall mounting
- TK-10
  $^{1}/_{4}$″ Tubing Kit with Connector Fittings

* Model No. DP10-A to mount directly on existing filter head for replacement only.
** Model No. DP10-B remote model with slotted bolts & mounting block.
Note: To order pre-mounted units, adds suffix "D" to filter #.

Pressure Gauges

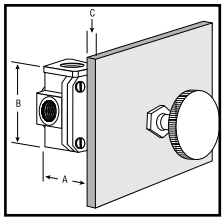


PART NO.	DESCRIPTION	PRESSURE RANGE	USED ON
1481C	2″ face, $^{1}/_{4}$″ center back mount	0-30 psi	Tri•Star Tri•Star II High Flow
1481A	2″ face, $^{1}/_{4}$″ center back mount	0-60 psi	
1481	2″ face, $^{1}/_{4}$″ center back mount	0-160 psi	
1481B	2″ face, $^{1}/_{4}$″ center back mount	0-300 psi	
1681C	1$^{1}/_{2}$″ face, $^{1}/_{8}$″ center back mount	0-30 psi	Mini Regulators and Mini Integral
1681A	1$^{1}/_{2}$″ face, $^{1}/_{8}$″ center back mount	0-60 psi	
1681	1$^{1}/_{2}$″ face, $^{1}/_{8}$″ center back mount	0-160 psi	

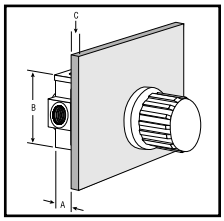
Regulator Accessories

Arrow regulators may be panel mounted to improve machine design and overall appearance, they are convenient for control panel or console mounting.

Suffix Q Tri-Star & Midflow



Suffix P Tri-Star & Midflow

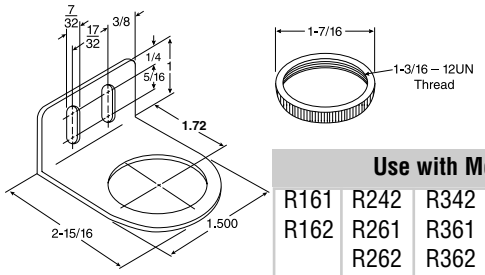


Panel Mounting Regulators					
Regulator Model	Suffix for Panel Mt.	Panel Hole Size	Dimensions & Max. A	B	C
Tri-Star, Midflow & Precision Series	P	$1^{13}/_{16}$″	$1^{1}/_{4}$″	$2^{22}/_{32}$″	$^{1}/_{2}$″
Tri-Star, Midflow & Precision Series	Q	$^{9}/_{16}$″	$3^{1}/_{2}$″	$2^{23}/_{32}$″	$^{5}/_{16}$″

Brackets

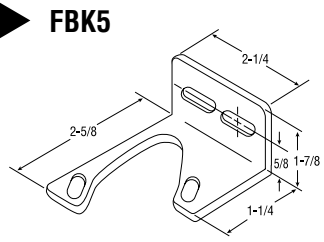
Miniature Mounting Brackets

BR1611 Bracket & Ring
PK1611 Ring Only



Use with Model #				
R161	R242	R342	7681	741
R162	R261	R361	7682	742
	R262	R362	7621	
			7622	

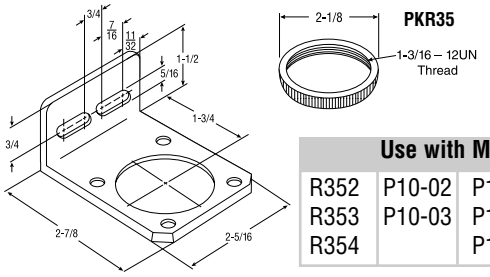
FBK5



Use with Model #		
F352	L352	L452
F353	L353	L453
F354	L354	L454

RBK5

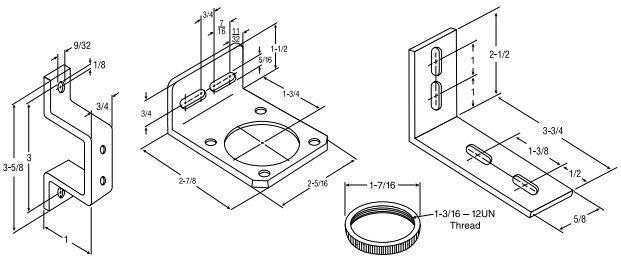
Mounting bracket for Tri•Star, Midflow, and precision regulators listed below. Also can be used for Tri-Star FRL Combination units.



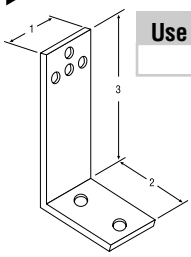
Use with Model #			
R352	P10-02	P14-02	B752
R353	P10-03	P14-03	
R354		P14-04	

ABK-10

Use with Model #
VC7510 VC7510XL VC7525

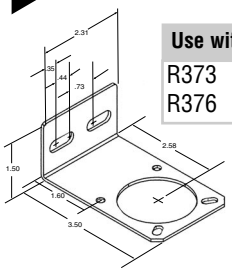


BR5702 Bracket



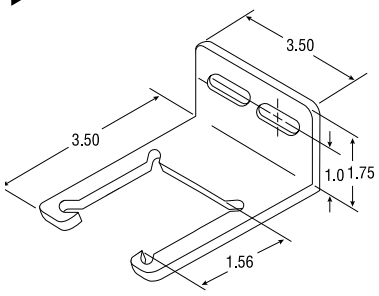
Use with Model #
5702S

RBK7 Bracket



Use with Model #	
R373	R374
R376	R378

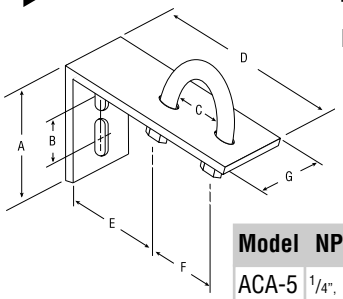
FBK7 Midflow Brackets



Use with Model #			
F373	F383	L373	L383
F374	F384	L374	L384
F376	F386	L376	L386

ACA Pipe Brackets

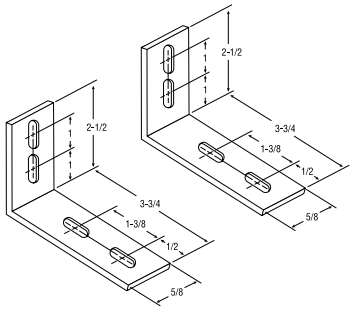
Mounting bracket for use with Tri-Star FRL's.
Example: N33354



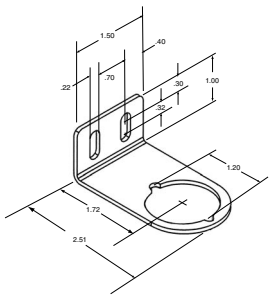
Model	NPT	A	B	C	D	E	F	G
ACA-5	1/4", 3/8"	2 1/2"	3/16"	3/4"	3 7/8"	2 1/16"	15/16"	5/8"
ACA-6	1/2", 3/4"	2 1/2"	3/16"	1 5/32"	3 7/8"	1 13/16"	1 5/16"	5/8"
ACA-7	1"	2 1/2"	3/16"	1 1/2"	3 7/8"	1 5/8"	1 11/16"	5/8"

DBK10 Mounting Bracket

Use with Model #
D10-04 D10-04XL



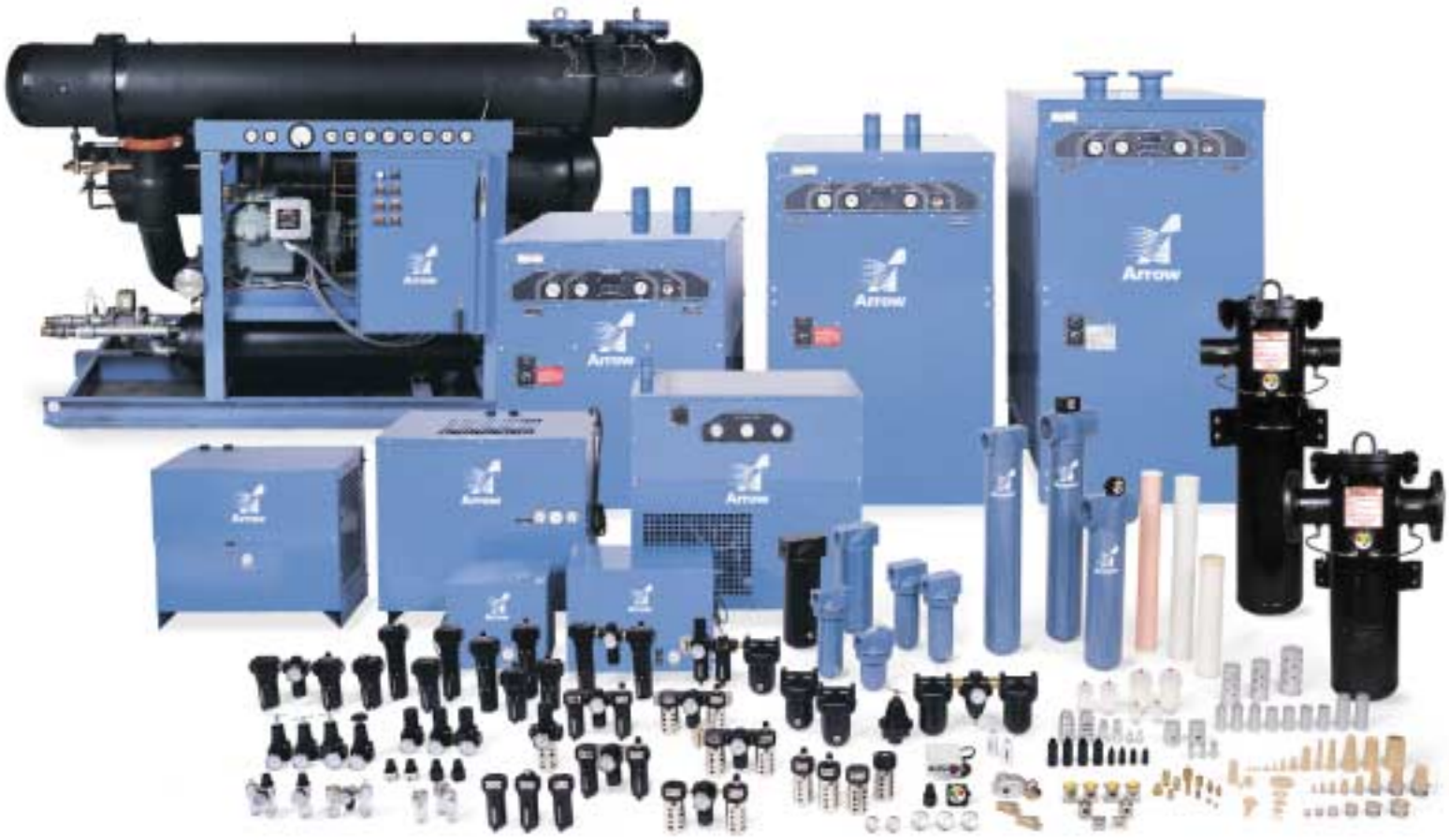
FBK3 Bracket



Use with Model #	
F300-01	L181
F300-02	L182
F500-01	
F500-02	

QUALITY AIR PREPARATION EQUIPMENT

ARROW PNEUMATICS



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