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ONLINE

Air Preparation Units "12" Series

Catalog 9CW-BK-262



WILKERSON®

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Sub-Compact Particulate Filter F12 Series

Filters



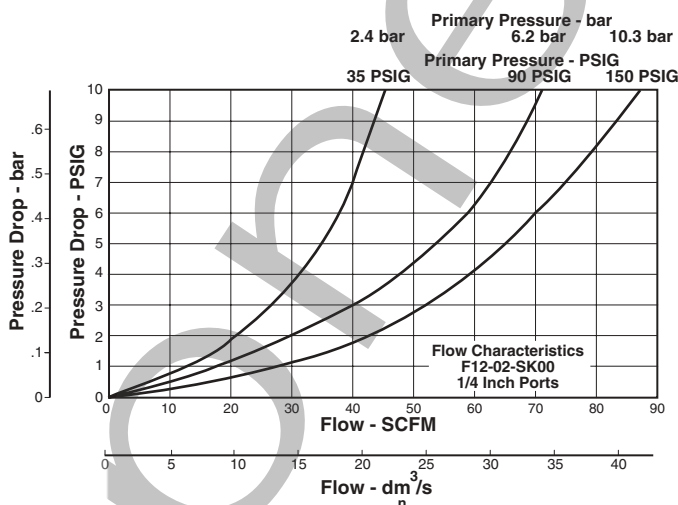
- Pipe Sizes 1/4 and 3/8 Inch
- High Flow
 - 5 Micron: 1/4" - 50 scfm
3/8" - 58 scfm
 - 40 Micron: 1/4" - 54 scfm
3/8" - 70 scfm
- Pressures to 250 psig

Air filters are designed to remove airborne solid contaminants, pipe scale, rust, pipe dope, etc., which may plug small orifices or cause excessive wear and premature failure of pneumatic components. They also separate bulk liquids from the airflow.

Filter Selection

1. Determine maximum system flow requirements.
2. Determine maximum allowable pressure drop at rated flow in scfm.
3. Refer to flow chart and select filter pipe size by choosing curve that offers minimum pressure drop at desired flow in scfm. For optimum performance, a 2 to 5 psig pressure drop should be selected.

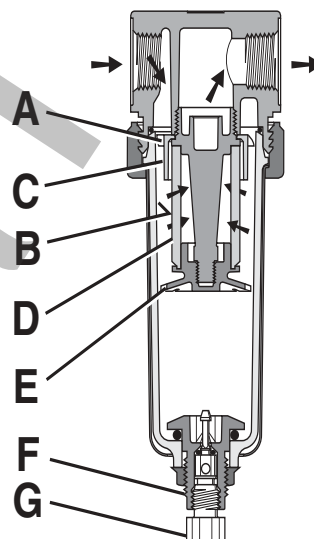
Reading Flow Charts to Size Filters



Once the required flow is determined for a pneumatic application, the filter can be selected by using the flow chart. To read the filter flow chart, first determine the inlet pressure that will be used. Find the appropriate pressure curve on the

graph. Each graph will contain three pressure curves. If the required inlet pressure is not on the graph, interpolate a similar curve for the required pressure. Next, determine the acceptable pressure drop across the filter and locate it on the vertical axis. Find the intersection point of the acceptable pressure drop and the inlet pressure curve. At this point follow a vertical path downward to view the flow in scfm. If the flow is too low, select a larger port size or body size to give the required flow. If the flow is higher than necessary, select a smaller port size or body size to give the required flow.

Operation



First Stage Filtration:

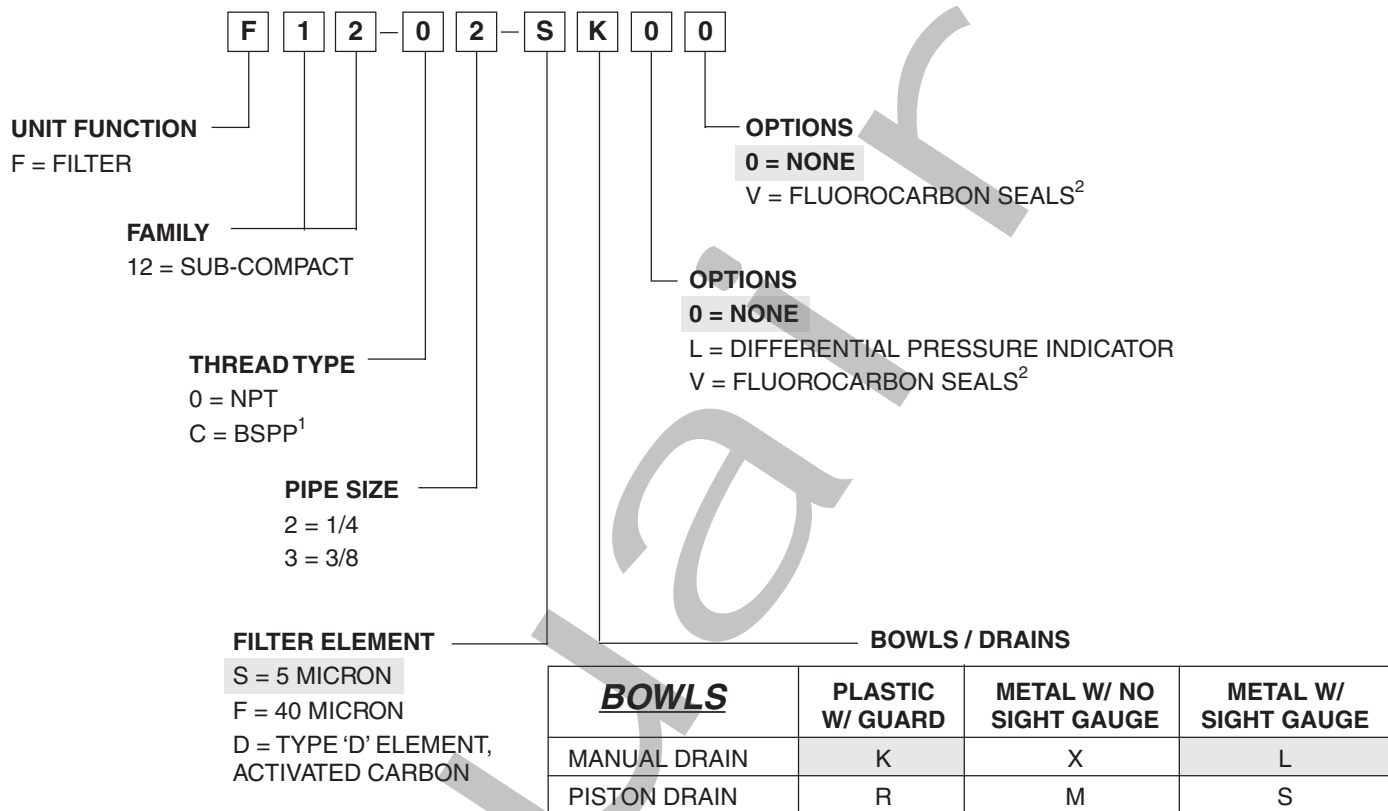
Air enters at inlet port and flows through deflector plate (A) which causes a swirling action. Liquids and coarse particles are forced to the bowl interior wall (B) by the centrifugal action of the swirling air. They then flow down the bowl wall by the force of gravity. Shroud (C) assures that the proper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

Second Stage Filtration:

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

Sub-compact Particulate Filter Numbering System

 = "Most Popular"



¹ ISO, R228 (G SERIES)

² Fluorocarbon seals available only on units with metal bowl with manual drain.

Type "A" 5 micron elements: All Wilkerson Type "A" 5 micron elements meet or exceed ISO Class 3 for maximum particle size and concentration of solid contaminants.

Type "D" activated carbon elements: All Wilkerson Type "F12" absorption filters with Type "D" activated carbon elements exceed ISO Class 1 on maximum oil content (ppm/wt).

NOTE: All classes above refer to International Standards Organization (ISO) standard 8573-1:1991(E), pertaining to maximum particle size and concentration of solid contaminants, and maximum oil content.

Sub-Compact Particulate Filter F12 Series

Particulate Filter F12



Manual Drain



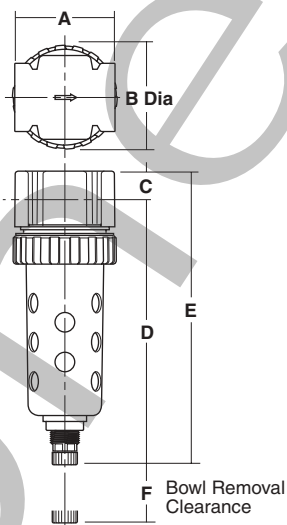
Piston Drain



F12-02-SK00

Features

- Excellent water removal efficiency.
- Unique deflector plate and shroud creates a swirling of the air stream ensuring maximum water and dirt separation.
- Large filter element surface guarantees low pressure drop and increased element life.
- 5 micron standard, 40 micron filter element, and activated carbon element available.



NOTE: Barb (piston drain) accepts 3/16" ID tubing.

Dimensions

Model

Sub-Compact Unit
F12-02-SK00

† With Manual or Piston Drain
Inches (mm)

Specifications

 = "Most Popular"

High Flow Capacity ¹	Port Size	5 Micron	40 Micron
	1/4	50 SCFM	54 SCFM
	3/8	58 SCFM	70 SCFM
Maximum Operating Temperature	Without DPI		125°F (52°C)
	Plastic Bowl		175°F (80°C)
	Metal Bowl		125°F (52°C)
	With DPI With Piston Drain		125°F (52°C)
Maximum Supply Pressure	Without DPI		150 psig (10,3 bar)
	Plastic Bowl		250 psig (17,2 bar)
	Metal Bowl		150 psig (10,3 bar)
	With DPI With Piston Drain		150 psig (10,3 bar)
Standard Filtration	Micron	5	
Useful Retention ²	oz. (cc)	.9 (26,6)	
Port Size	NPT/BSPP-G	1/4, 3/8	
Weight	lb. (kg)	1.2 (0,54)	

¹ Inlet pressure 90 psig (6,2 bar) and 5 psig (0,3 bar) pressure drop.

² Useful Retention refers to volume below the quiet zone baffle.

Materials of Construction

Body	Zinc	
Bowls	Plastic Bowl	Polycarbonate
	Metal Bowl	Zinc
Drain	Plastic	
Filter Element	Micron	Plastic
	Adsorber	Activated Charcoal
Element Holder	Acetal	
Seals	Nitrile	
Sight Gauge DPI	Polyamide (Nylon)	

Ordering Information

Port Size	Plastic Bowl w/ Guard		Metal Bowl w/ Sight Gauge	
	Manual Drain	Piston Drain	Manual Drain	Piston Drain
1/4"	F12-02-SK00	F12-02-SR00	F12-02-SL00	F12-02-SS00
3/8"	F12-03-SK00	F12-03-SR00	F12-03-SL00	F12-03-SS00

Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

A	B	C	D [†]	E [†]	F
2.00 (51)	2.06 (52)	.56 (14)	5.35 (136)	5.91 (150)	2.25 (57)

Sub-Compact Particulate Filter F12 Series

Replacement Bowl Kits

Plastic Bowl Guard	GRP-96-345
Plastic Bowl / Piston Drain	GRP-96-351
Plastic Bowl / Manual Drain	GRP-96-347
Metal Bowl / Piston Drain	GRP-96-353
Metal Bowl / Manual Drain	GRP-96-348
Metal Bowl / Sight Gauge / Piston Drain	GRP-96-352
Metal Bowl / Sight Gauge / Manual Drain	GRP-96-349

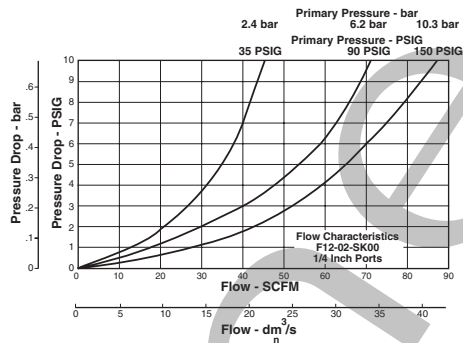
Accessories & Repair Kits

DPI Replacement Kit	FRP-96-300
Drain Kit / Piston Drain	GRP-96-354
Drain Kit / Manual Drain	GRP-96-340
Mounting Bracket Kit (See page 42)	GPA-96-300
Sight Gauge Kit	GRP-96-346

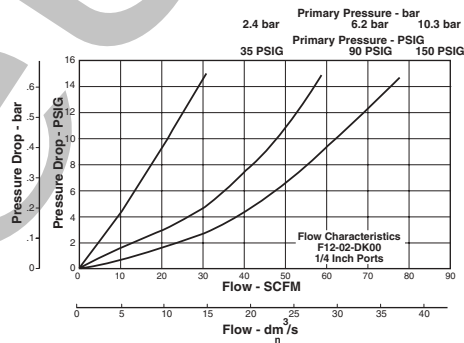
Replacement Element Kits

5 Micron	GRP-96-344
40 Micron	GRP-96-343
Adsorber (Activated Carbon)	FRP-96-301

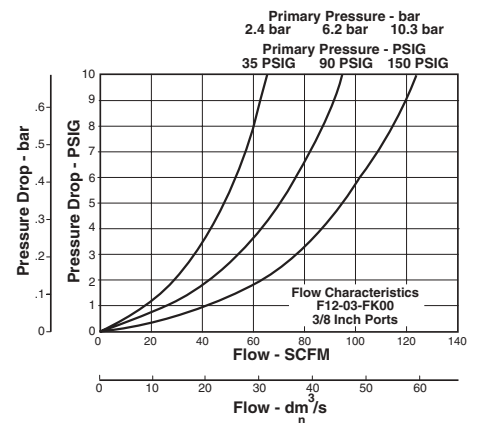
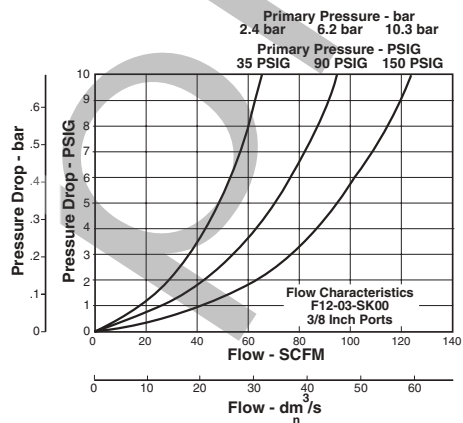
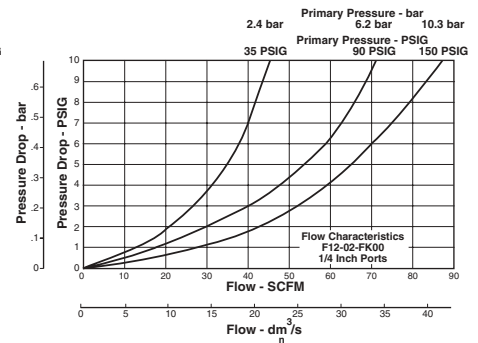
5 Micron Element



Activated Carbon Element



40 Micron Element



Sub-Compact Coalescing Filter M12 Series

Coalescing Filters



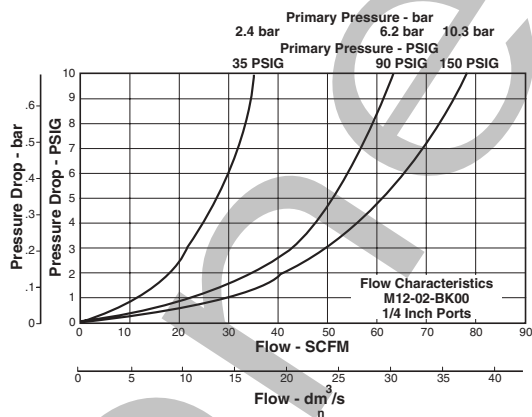
- Pipe Sizes 1/4 and 3/8 Inch
- High Flow
 - “C” Element: 1/4" - 34 scfm
3/8" - 28 scfm
 - “B” Element: 1/4" - 51 scfm
3/8" - 64 scfm
- Pressures to 250 psig

Coalescing filters are designed to remove 99.9% + of the liquid aerosols, both water and oil, and submicron particulate matter from your pneumatic system. These filters will provide oil free air for applications such as spray painting, air gauging, pneumatic instrumentation, printing and packaging.

Filter Selection

1. Determine flow and pressure requirements.
2. Refer to Flow Chart and select the proper filter to match your flow and pressure needs.

Reading Flow Charts For Coalescing Filters



To read the coalescer flow chart, first determine the inlet pressure that will be used. Find the appropriate pressure curve on the graph. Each graph will contain three pressure curves. If the required inlet pressure is not on the graph, interpolate a similar curve for the required pressure. Next, determine the acceptable pressure drop across the coalescer and locate it on the vertical axis. Find the intersection point of the acceptable pressure drop and the inlet pressure curve. At this point follow a vertical path downward to view the flow in scfm. If the flow is too low, select a larger port size or body

size to give the required flow. If the flow is higher than necessary, select a smaller port size or body size to give the required flow.

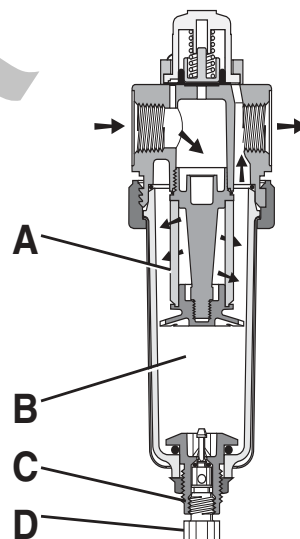
Media Specifications

Grade	D.O.P. Coalescing Efficiency .3 to .6 Micron Particles	Maximum Oil Carryover ¹ PPM w/w	Pressure Drop (PSID) ² @ Rated Flow		Particulate Micron Rating
			Media Dry	Media Wet With 10-20 wt. oil	
C	99.97%	.008	1.0	2-3	.01
B	95%	.85	.5	.5	.7

¹ Tested per BCAS 860900 at 40 ppm inlet.
² Add dry + wet for total pressure drop.

D.O.P. = Dioctylphthalate

Operation



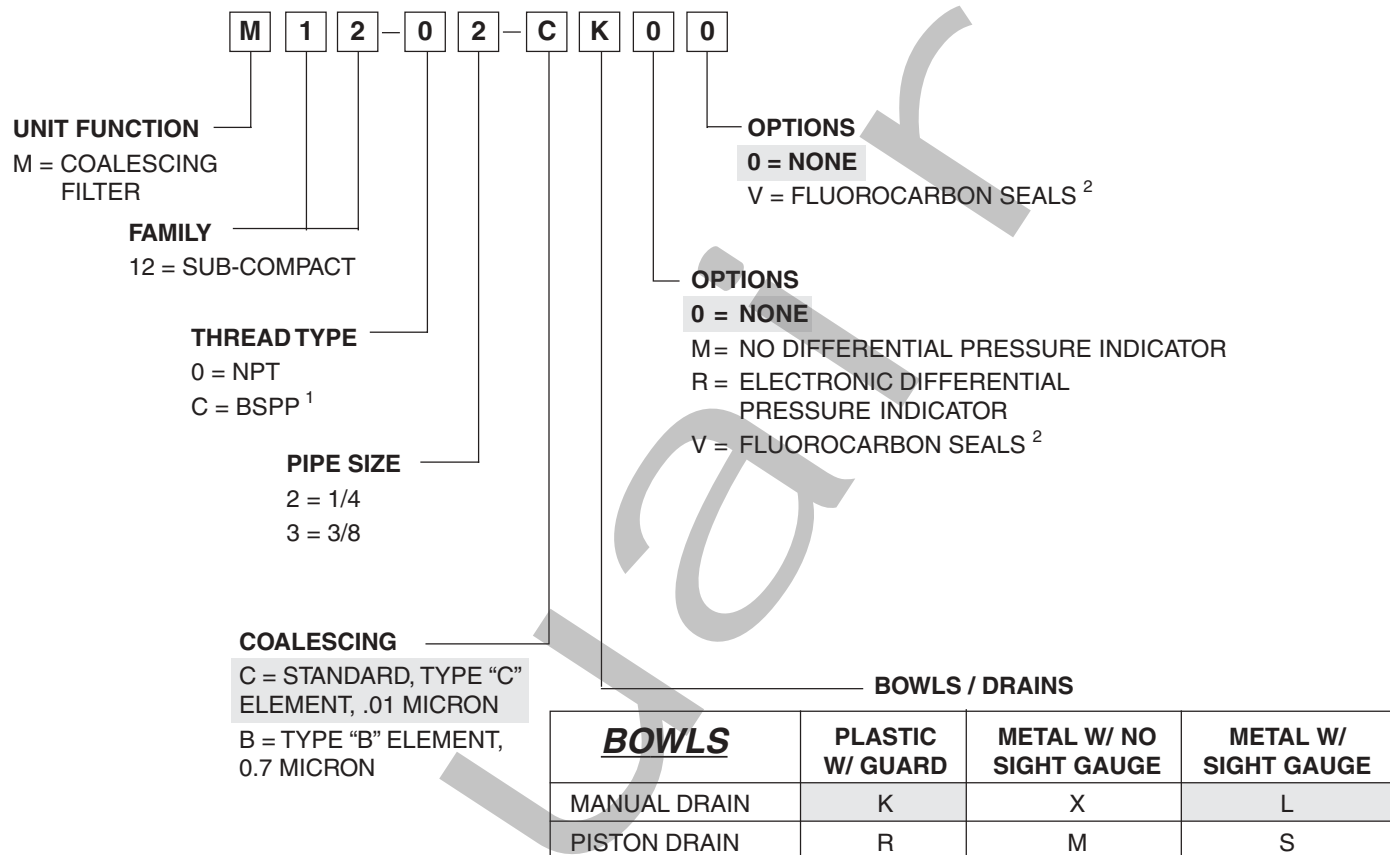
The contaminated air enters the element interior and is forced through a thick membrane of borosilicate glass fibers coated with epoxy (A). Flow then passes through an outer structural support and, at this stage, has removed up to 99.97% + of the sub-micron particles evident in the contaminated air.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

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

Collected liquids and particles in the “quiet zone” should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by the manual drain (C) which is actuated by twisting knob (D) counterclockwise. Or, by the automatic pulse drain when actuated by airline pressure cycles.

Sub-compact Coalescing Numbering System

 = "Most Popular"



¹ ISO, R228 (G SERIES)

² Fluorocarbon seals available only on units with metal bowl with manual drain.

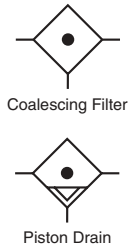
"M" Series Coalescing Filters, with Type "B" 0.7 micron elements: All Wilkerson Type "M" Oil Removal (Coalescing) Filters with Type "B" 0.7 micron elements **exceed ISO Class 2** for maximum particle size and concentration of solid contaminants, and **exceed Class 3** on maximum oil content (ppm/wt).

"M" Series Coalescing Filters, with Type "C" 0.01 micron elements: All Wilkerson Type "M" Oil Removal (Coalescing) Filters with Type "C" 0.01 micron elements **exceed ISO Class 1** for maximum particle size and concentration of solid contaminants, and **exceed Class 1** on maximum oil content (ppm/wt).

NOTE: All classes above refer to International Standards Organization (ISO) standard 8573-1:1991(E), pertaining to maximum particle size and concentration of solid contaminants, and maximum oil content.

Sub-Compact Coalescing Filter M12 Series

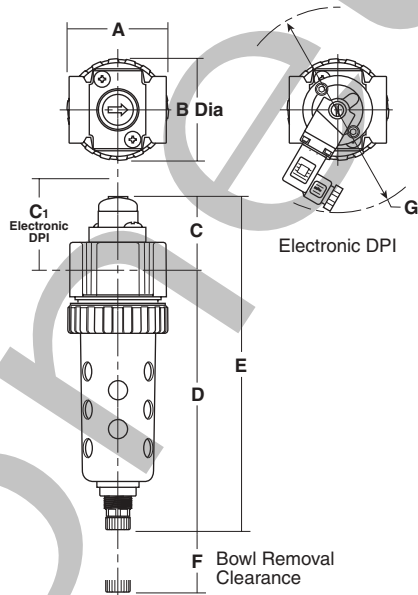
Coalescing Filter M12



M12-02-CK00

Features

- Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable manual and piston drains.
- Differential pressure indicator standard.



NOTE: Barb (piston drain) accepts 3/16" ID tubing.

Dimensions

Model

Sub-Compact Unit
M12-02-CK00

Model	A	B	C	C ₁	D [†]	E [†]	F	G Dia.
Sub-Compact Unit M12-02-CK00	2.00 (51)	2.06 (52)	1.50 (38)	1.86 (47)	5.35 (136)	6.85 (174)	1.77 (45)	4.50 (114)

[†] With Manual or Piston Drain
Inches (mm)

Specifications

High Flow Capacity ¹	Port Size	"C" Element	"B" Element
	1/4	30 SCFM	50 SCFM
3/8	30 SCFM	65 SCFM	
Maximum Operating Temperature			
Without DPI		Plastic Bowl	125°F (52°C)
With DPI		Metal Bowl	175°F (80°C)
With Piston Drain			125°F (52°C)
Maximum Supply Pressure			
Without DPI		Plastic Bowl	150 psig (10,3 bar)
With DPI		Metal Bowl	250 psig (17,2 bar)
With Piston Drain			150 psig (10,3 bar)
Standard Filtration		Micron	(C) 0.01 (B) 0.7
Useful Retention ²		oz. (cc)	.9 (26,6)
Port Size		NPT/BSPP-G	1/4, 3/8
Weight		lb. (kg)	1.2 (0,54)

¹ Inlet pressure 90 psig (6,2 bar) and 5 psig (0,3 bar) pressure drop.

² Useful Retention refers to volume below the quiet zone baffle.

Materials of Construction

Body	Zinc	
Bowls	Plastic Bowl	Polycarbonate
	Metal Bowl	Zinc
Drain	Plastic	
Filter Element	Type B, C	Borosilicate & Felt Glass Fibers
Element Holder	Acetal	
Seals	Nitrile	
Sight Gauge DPI	Polyamide (Nylon)	

Ordering Information

Port Size	Plastic Bowl w/ Guard		Metal Bowl w/ Sight Gauge	
	Manual Drain	Piston Drain	Manual Drain	Piston Drain
1/4"	M12-02-CK00	M12-02-CR00	M12-02-CL00	M12-02-CS00
3/8"	M12-03-CK00	M12-03-CR00	M12-03-CL00	M12-03-CS00

Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

Sub-Compact Coalescing Filter M12 Series

 = "Most Popular"

Replacement Bowl Kits

Plastic Bowl Guard	GRP-96-345
Plastic Bowl / Piston Drain	GRP-96-351
Plastic Bowl / Manual Drain	GRP-96-347
Metal Bowl / Piston Drain	GRP-96-353
Metal Bowl / Manual Drain	GRP-96-348
Metal Bowl / Sight Gauge / Piston Drain	GRP-96-352
Metal Bowl / Sight Gauge / Manual Drain	GRP-96-349

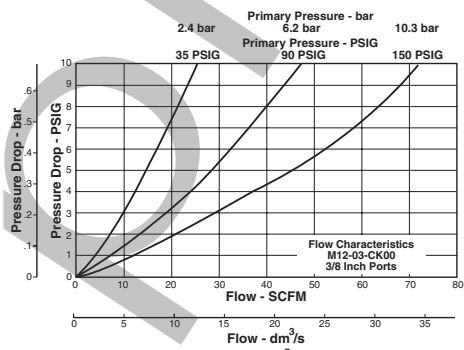
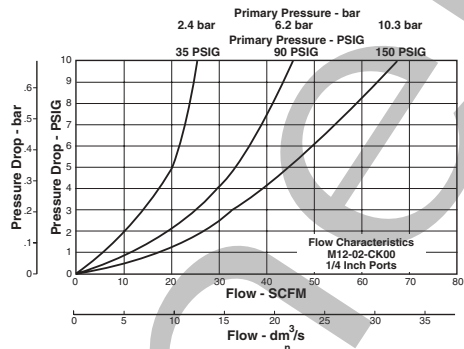
Accessories & Repair Kits

DPI Replacement Kit	FRP-96-300
Electronic DPI Kit	PS765
Drain Kit / Piston Drain	GRP-96-354
Drain Kit / Manual Drain	GRP-96-340
Mounting Bracket Kit (See page 42)	GPA-96-300
Sight Gauge Kit	GRP-96-346

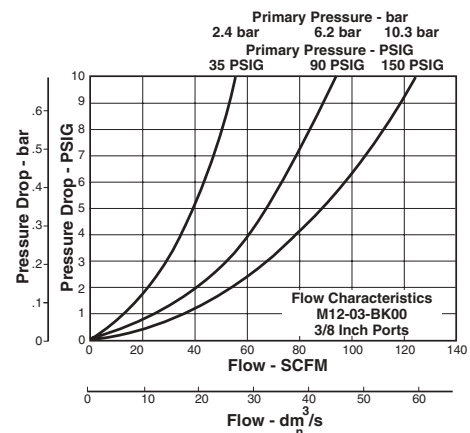
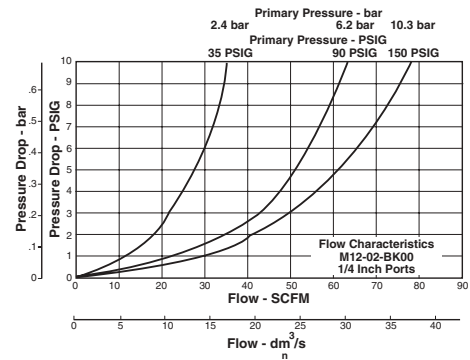
Replacement Element Kits

"C" Element (Standard)	MRP-96-300
"B" Element (Optional)	MRP-96-301

"C" Element

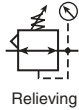


"B" Element



Sub-Compact Regulator R12 Series

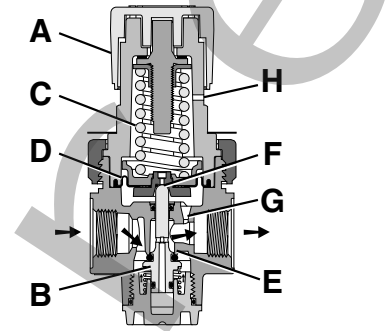
Regulators



- Pipe Sizes 1/4 and 3/8 Inch
- High Flow: 1/4" - 30 scfm
3/8" - 40 scfm
- Pressures to 250 psig

Air regulators are designed to provide quick response and accurate pressure regulation for the most demanding industrial applications.

Operation



With the adjusting knob **(A)** turned fully counterclockwise (no spring load), and pressure supplied to the regulator inlet port, the valve assembly **(B)** is closed. Turning the adjusting knob clockwise applies a load to control spring **(C)**. This load causes the piston / diaphragm **(D)** and the valve assembly **(B)** to move downward allowing flow across the seat area **(E)** created between the valve assembly and the seat. Pressure in the downstream line is sensed below the piston / diaphragm **(D)** and offsets the load of spring **(C)**.

As downstream pressure rises, valve assembly **(B)** and control piston **(C)** move upward until the area **(E)** is closed and the load of the spring **(C)** and pressure under piston / diaphragm **(D)** are in balance. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the piston / diaphragm **(D)**. The load of control spring **(C)** now causes the valve assembly to move downward opening seat area **(E)** allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening **(E)**.

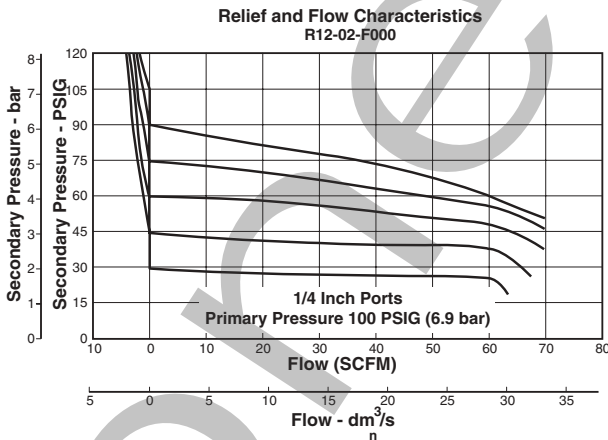
During low flow requirements, the amount of opening at the seat **(E)** is small, while at high flows it is large. The downstream pressure signal, which regulates the amount of opening, requires an adjustment over this range, in order to attempt a constant output. This adjustment is the orifice **(G)**,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

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

Regulator Selection

1. Determine maximum system flow requirements.
2. Determine maximum allowable pressure drop at rated flow in scfm.
3. Refer to flow chart and select regulator by choosing the curve that offers minimum pressure drop at desired flow in scfm.

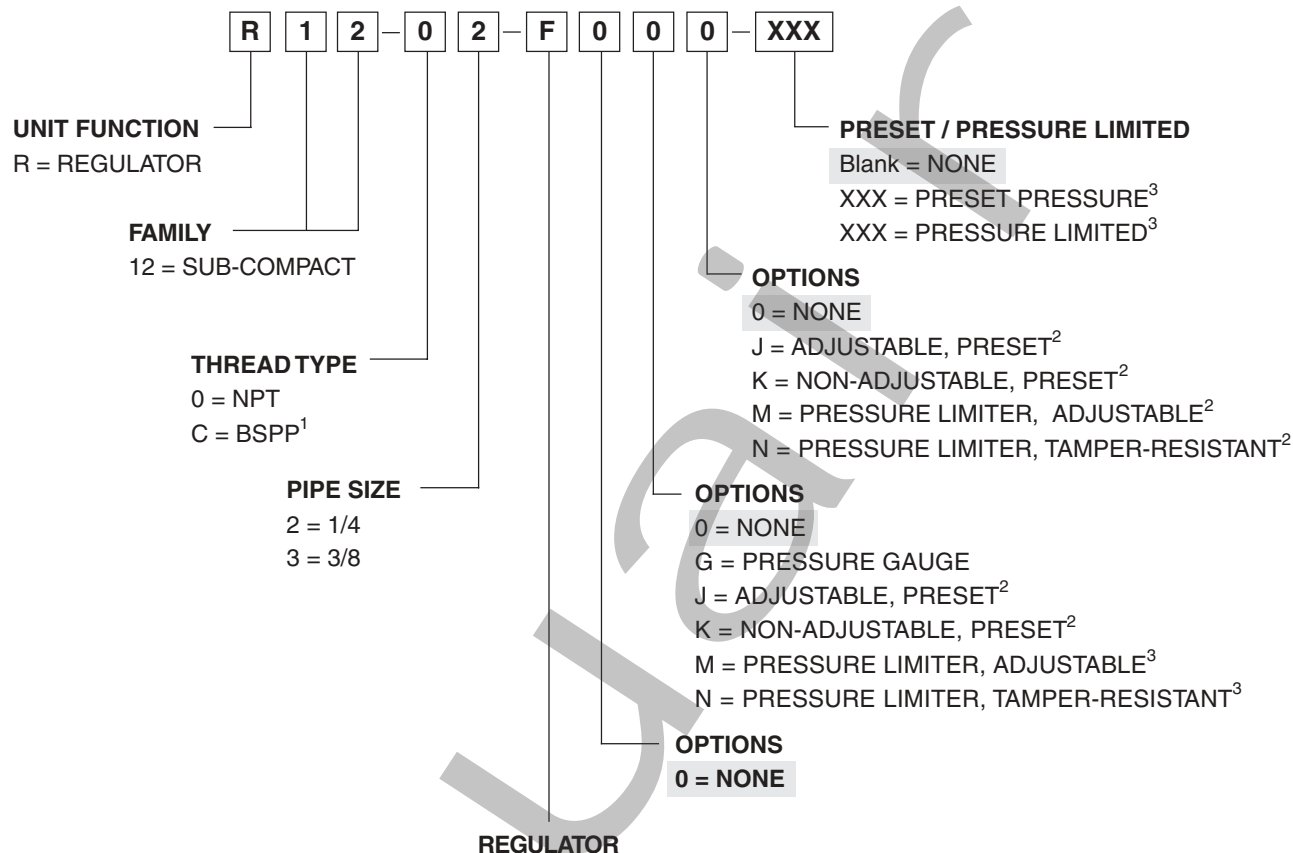
Reading Flow Charts to Size Regulators



Once the required flow is determined for a pneumatic application the regulator can be selected by using the flow chart. When reading the flow chart, first determine the secondary pressure that will be used. Find the appropriate pressure curve on the graph. Given an acceptable pressure drop for an application, follow the flow curve until it intersects the pressure drop point. This will give the flow at that particular pressure drop.

Sub-compact Regulator Numbering System

 = "Most Popular"



DIAPHRAGM FUNCTION	FLUOROCARBON	SPRING RANGE			
		0-30 psi (0-2,1 bar)	0-60 psi (0-4,1 bar)	0-125 psi (0-8,6 bar)	0-200 psi (0-13,8 bar)
RELIEVING	NO	C	D	F	H
	YES	J	K	L	N
NON-RELIEVING	NO	P	W	R	T
	YES	V	X	Y	U

NOTE: When selecting from the options columns, please enter letters in alphabetical order for positions 8 and 9.

For example:

R 12 - 02 - F 0 G K.

CAUTION: Regulator Pressure Adjustment - The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

¹ ISO, R228 (G SERIES)

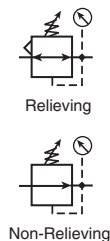
² Inlet pressure is 100 PSIG. For other pressures, contact factory.

³ Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG)

Sub-Compact Regulator R12 Series

Regulator R12

 = "Most Popular"



R12-02-F000

Features

- Secondary aspiration plus balanced valve provides quick response and accurate pressure regulation.
- Rolling diaphragm for extended life.
- Removable non-rising knob for panel mounting and tamper resistance.
- Easily serviced.
- Reverse Flow.

Specifications

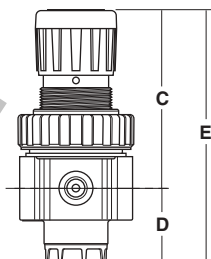
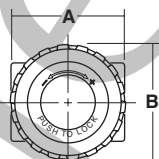
High Flow Capacity ¹	1/4 3/8	30 SCFM 40 SCFM
Maximum Operating Temperature	175°F (80°C)	
Maximum Supply Pressure	250 psig (17.2 bar)	
Adjusting Range Pressure	1-30 psig (0,06-2,1 bar) 1-60 psig (0,06-4,1 bar) 2-125 psig (0,13-8,6 bar) 2-250 psig (0,13-17,2 bar)	
Gauge Ports (2x)	NPT/BSPP-G	1/4
Port Size	NPT/BSPP-G	1/4, 3/8
Weight	lb. (kg)	1.1 (0,49)

¹ Inlet pressure 100 psig (7 bar), no flow secondary pressure set 90 psig (6,2 bar), 10 psig pressure drop at rated flow.

Materials of Construction

Body	Zinc	
Adjustment Stem	Brass	
Collar & Knob	Plastic	
Valve & Cap	Plastic	
Bonnet	Plastic	
Diaphragm Assembly	Nitrile	
Springs	Valve & Control	Steel
Seals	Nitrile	

WARNING
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.
Product rupture can cause serious injury.



NOTE: Panel Mount Nut sold separately.

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

Dimensions

Model

Sub-Compact Unit
R12-02-F000

Inches (mm)

Ordering Information

Port Size	0-125 psi (0-8,6 bar)	
	Without Gauge	With Gauge
1/4"	R12-02-F000	R12-02-F0G0
3/8"	R12-03-F000	R12-03-F0G0

Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

A	B	C	D	E
2.00 (51)	2.06 (52)	3.16 (80)	1.28 (32)	4.44 (113)

Sub-Compact Regulator R12 Series

 = "Most Popular"

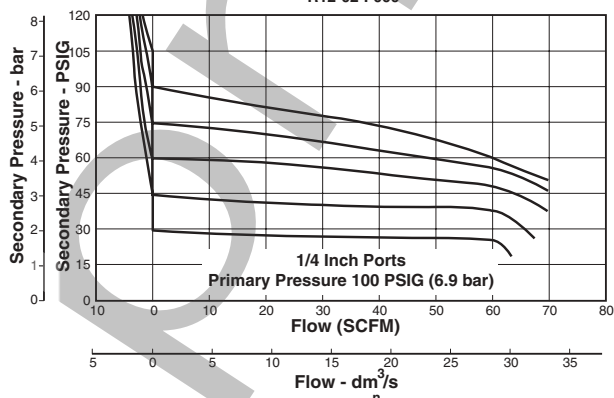
Replacement Kits

Bonnet Assembly Kit	RRP-96-308
Control Knob	RRP-96-300
30 psig Gauge	RRP-96-663
60 psig Gauge	RRP-96-664
160 psig Gauge	RRP-96-665
300 psig Gauge	RRP-96-666
Springs, Regulating 1-30 psig (0,06-2,1 bar)	RRP-96-303
Springs, Regulating 1-60 psig (0,06-4,1 bar)	RRP-96-302
Springs, Regulating 2-125 psig (0,13-8,6 bar)	RRP-96-301
Springs, Regulating 2-200 psig (0,13-17,2 bar)	RRP-96-304
Relieving, Service Kit	RRP-96-306
Non-Relieving, Service Kit	RRP-96-307

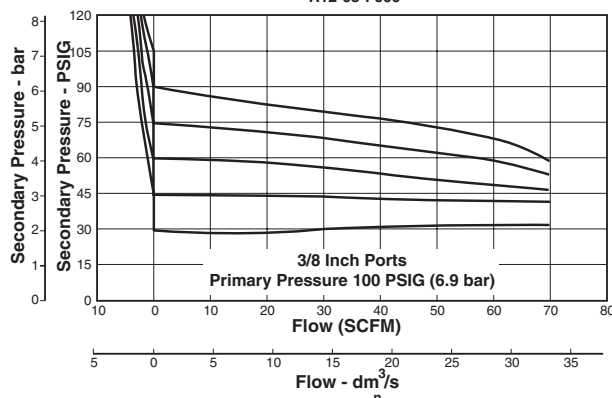
Accessories

Mounting Bracket Kit (With Panel Mount Nut)	GPA-96-313
Panel Mount Nut, Metal	GPA-96-314

Relief and Flow Characteristics
R12-02-F000

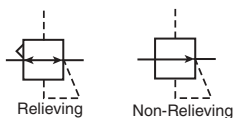


Relief and Flow Characteristics
R12-03-F000



Air Piloted Regulator H12 Series

Air Piloted Regulators



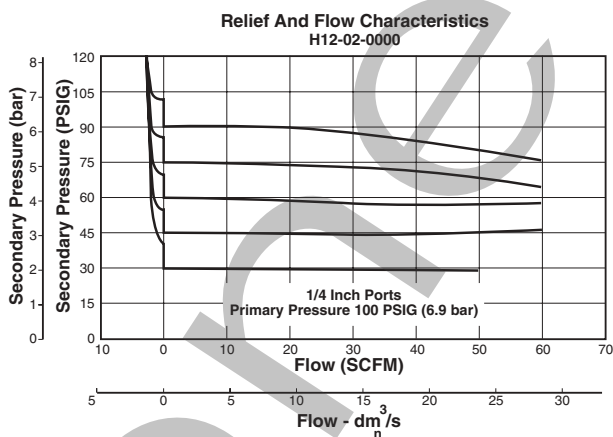
- Pipe Sizes 1/4 and 3/8 Inch
- High Flow: 1/4" - 50 scfm
3/8" - 50 scfm
- Pressures to 250 psig

Air regulators are designed to provide quick response and accurate pressure regulation for the most demanding industrial applications.

Regulator Selection

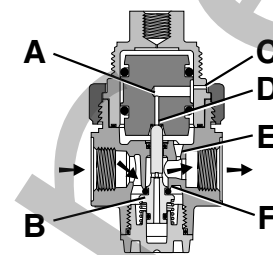
1. Determine maximum system flow requirements.
2. Determine maximum allowable pressure drop at rated flow in scfm.
3. Refer to flow chart and select regulator by choosing the curve that offers minimum pressure drop at desired flow in scfm.

Reading Flow Charts to Size Regulators



Once the required flow is determined for a pneumatic application the regulator can be selected by using the flow chart. When reading the flow chart, first determine the secondary pressure that will be used. Find the appropriate pressure curve on the graph. Given an acceptable pressure drop for an application, follow the flow curve until it intersects the pressure drop point. This will give the flow at that particular pressure drop.

Operation



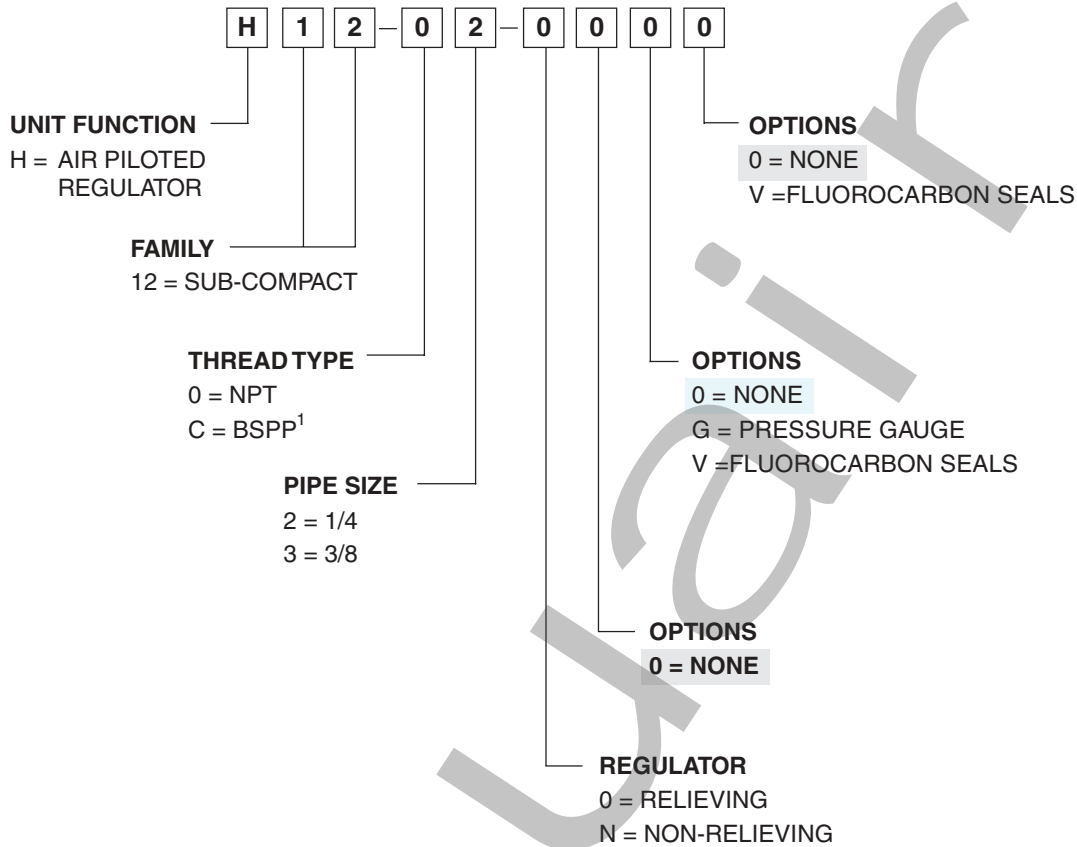
With pressure supplied to the regulator inlet port and no pilot signal, the valve assembly (**B**) is closed. Pressurizing the pilot port applies a load to control piston (**A**). This load causes the piston (**A**) and the valve assembly (**B**) to move downward allowing flow thru the pathway (**F**) created between the valve assembly and the body. Pressure in the downstream line is sensed below the control piston (**A**) and offsets the load of piston (**A**). As downstream pressure rises, valve assembly (**B**) and control piston (**A**) move upward until the pathway (**F**) is closed and the load of the piston (**A**) and pressure under piston (**A**) are in balance. A reduced outlet pressure has now been obtained. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the control piston (**A**). The load of control piston (**A**) now causes the valve assembly to move downward opening seat area pathway (**F**) and allowing air to flow downstream. The flow of downstream air is metered by the amount of opening (**F**).

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

Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the control piston (**A**) to move upward, off of the valve assembly, opening vent hole (**D**) and vent the excess pressure to atmosphere through the hole in the bonnet (**C**). (This occurs in the relieving type regulator only.)

Sub-compact Air Piloted Regulator Numbering System

 = "Most Popular"



¹ ISO, R228 (G SERIES)

Air Piloted Regulator H12 Series

Air Piloted Regulator H12

 = "Most Popular"

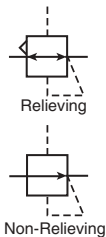
Specifications

High Flow Capacity ¹	1/4	50 SCFM
	3/8	50 SCFM
Operating Pressure Range	0 to 250 PSIG (0 to 17,2 bar)	
Operating Temperature Range	32°F to 175°F (0°C to 80°C)	
Gauge Ports (2x)	NPT/BSPP-G	1/4
Port Size	NPT/BSPP-G	1/4, 3/8
Weight	lb. (kg)	.90 (0,41)

¹ Inlet pressure 100 psig (7 bar), no flow secondary pressure set 90 psig (6,2 bar), 10 psig pressure drop at rated flow.

Materials of Construction

Body	Zinc
Piston & Valve	Plastic
Spring (Valve)	Steel
Seals	Nitrile



H12-02-0000

Features

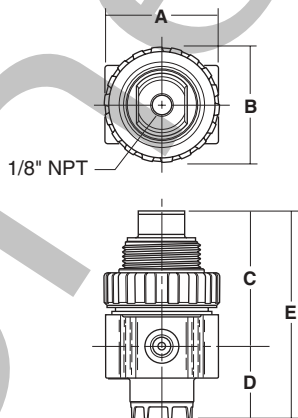
- Unique balanced valve minimizes secondary pressure fluctuations.
- Solid control piston with resilient seat for service-free operation.
- Easily serviced.

Ordering Information

Port Size	0-125 psi (0-8,6 bar)	
	Without Gauge	With Gauge
1/4"	H12-02-0000	H12-02-00G0
3/8"	H12-03-0000	H12-03-00G0

Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

WARNING
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.
Product rupture can cause serious injury.



NOTE: Panel Mount Nut sold separately.

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

Dimensions

Model

Air Piloted Unit
H12-02-0000

Inches (mm)

A	B	C	D	E
2.00 (51)	2.06 (52)	2.43 (61)	1.28 (32)	3.71 (93)

Air Piloted Regulator H12 Series

 = "Most Popular"

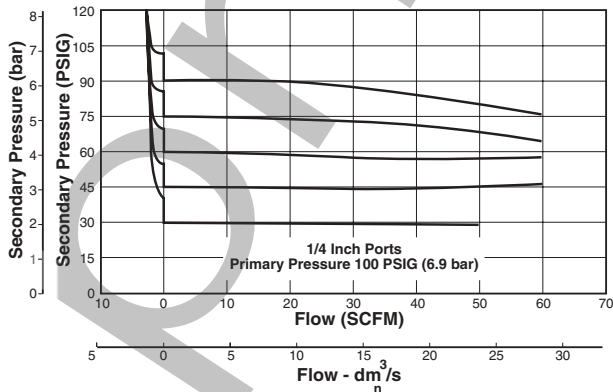
Replacement Kits

30 psig Gauge	RRP-96-663
60 psig Gauge	RRP-96-664
160 psig Gauge	RRP-96-665
300 psig Gauge	RRP-96-666
Relieving, Service Kit	RRP-96-310
Non-Relieving, Service Kit	RRP-96-309

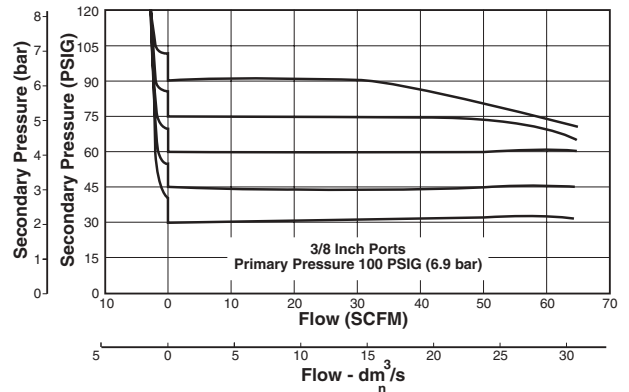
Accessories

Mounting Bracket Kit (With Panel Mount Nut)	GPA-96-313
Panel Mount Nut, Metal	GPA-96-314

Relief And Flow Characteristics
H12-02-0000

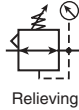


Relief And Flow Characteristics
H12-03-0000



Precision Regulator P12 Series

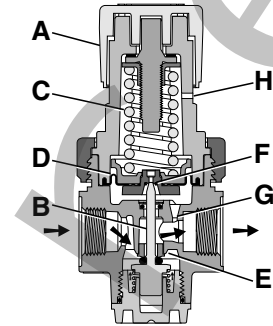
Precision Regulators



- Pipe Sizes 1/4 and 3/8 Inch
- High Flow: 1/4" - 25 scfm
3/8" - 25 scfm
- Pressures to 250 psig

Precision air regulators are designed to provide quick response and accurate pressure regulation for the most demanding industrial applications.

Operation



Regulator Selection

1. Determine maximum system flow requirements.
2. Determine maximum allowable pressure drop at rated flow in scfm.
3. Refer to flow chart and select regulator by choosing the curve that offers minimum pressure drop at desired flow in scfm.

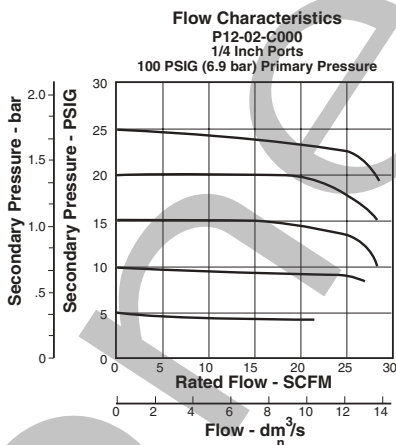
With the adjusting knob **(A)** turned fully counterclockwise (no spring load), and pressure supplied to the regulator inlet port, the valve assembly **(B)** is closed. Turning the adjusting knob clockwise applies a load to control spring **(C)**. This load causes the piston / diaphragm **(D)** and the valve assembly **(B)** to move downward allowing flow across the seat area **(E)** created between the valve assembly and the seat. Pressure in the downstream line is sensed below the piston / diaphragm **(D)** and offsets the load of spring **(C)**.

As downstream pressure rises, the valve assembly **(B)** and control piston **(C)** move upward until the area **(E)** is closed and the load of the spring **(C)** and pressure under piston / diaphragm **(D)** are in balance. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the piston / diaphragm **(D)**. The load of control spring **(C)** now causes the valve assembly to move downward opening seat area **(E)** allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening **(E)**.

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

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

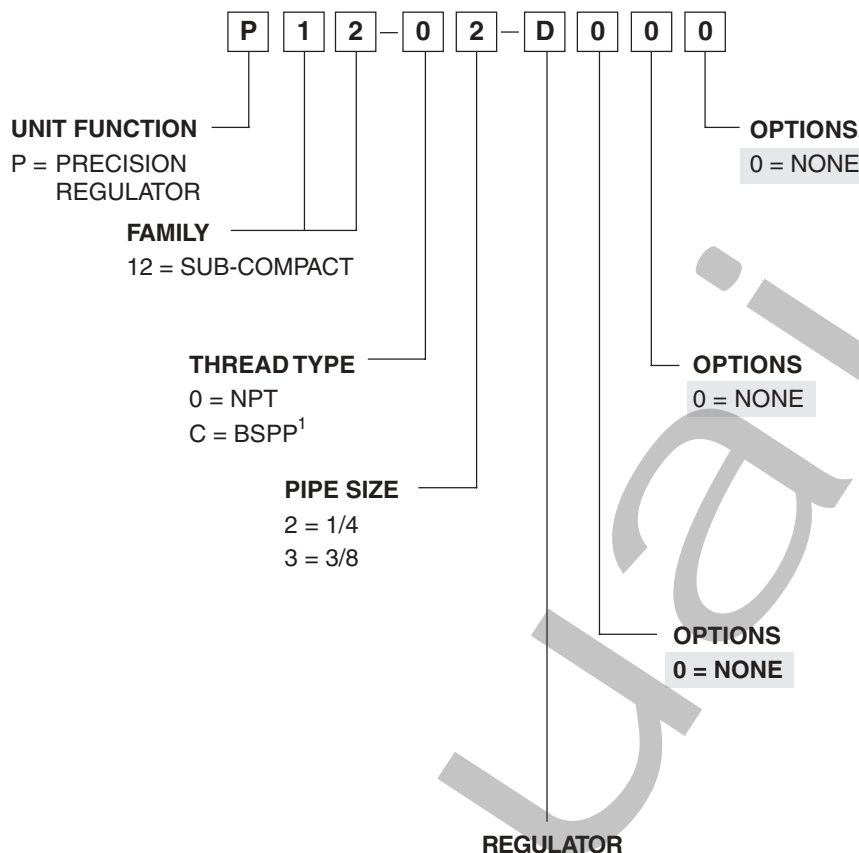
Reading Flow Charts to Size Regulators



Once the required flow is determined for a pneumatic application the regulator can be selected by using the flow chart. When reading the flow chart, first determine the secondary pressure that will be used. Find the appropriate pressure curve on the graph. Given an acceptable pressure drop for an application, follow the flow curve until it intersects the pressure drop point. This will give the flow at that particular pressure drop.

Sub-compact Precision Regulator Numbering System

 = "Most Popular"



DIAPHRAGM FUNCTION	FLUOROCARBON	SPRING RANGE			
		0-15 psi (0-1,7 bar)	0-30 psi (0-2,1 bar)	0-60 psi (0-4,1 bar)	0-125 psi (0-8,6 bar)
RELIEVING	NO	A	C	D	F
	YES	B	J	K	L

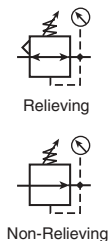
CAUTION: Regulator Pressure Adjustment - The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

¹ ISO, R228 (G SERIES)

Precision Regulator P12 Series

Precision Regulator P12

 = "Most Popular"



P12-02-D000

Features

- Fine adjustment sensitivity.
- Good repeatability and minimal pressure drop.
- High flow capacity.
- Two 1/4" gauge ports.
- Brass Valve for long life.
- High Flow: 25 scfm.
- Modular with 12 Series FRL.
- Non-rising, removable knob.
- Multiple porting options.

⚠ WARNING
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.
Product rupture can cause serious injury.

NOTE: Panel Mount Nut sold separately.

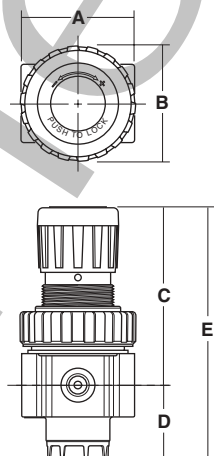
NOTE: 1.53" (39 mm) Dia. hole required for panel mounting.

Dimensions

Model

Precision Unit
P12-02-D000

Inches (mm)



Specifications

High Flow Capacity ¹	1/4 3/8	25 SCFM 25 SCFM
Maximum Operating Temperature	175°F (80°C)	
Maximum Supply Pressure	250 psig (17.2 bar)	
Adjusting Range Pressure 1-15 psig (0,06-1,05 bar)	1-30 psig (0,06-2,1 bar) 1-60 psig (0,06-4,1 bar) 2-125 psig (0,13-8,6 bar)	
Gauge Ports (2x)	NPT/BSPP-G	1/4
P1, P2 Port Size (Inlet/Outlet)	NPT/BSPP-G	1/4, 3/8
Weight	lb. (kg)	1.0 (0,45)

Effect of Supply Pressure Variation – 0.5 psig (.035 bar) for 25 psig (1.73 bar) change in P₁

Relief Capacity – 0.5 SCFM (0.24 dm³/s) @ 5 psig (.35 bar) increase in P₂

¹ **Flow Capacity** – Inlet pressure 100 psig (7 bar), no flow secondary pressure set 90 psig (6.2 bar), 15 psig pressure drop at rated flow.

Materials of Construction

Body	Zinc	
Collar & Knob	Plastic	
Poppet	Brass	
Bonnet & Bottom Cap	Plastic	
Diaphragm Assembly	Nitrile	
Springs	Valve & Control	Steel
Seals	Nitrile	

Ordering Information

Pressure Range	1/4" NPT Without Gauge
15 psig	P12-02-A000
30 psig	P12-02-C000
60 psig	P12-02-D000
125 psig	P12-02-F000

Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

A	B	C	D	E
2.00 (51)	2.06 (52)	3.16 (80)	1.28 (32)	4.44 (113)

Precision Regulator P12 Series

 = "Most Popular"

Replacement Kits

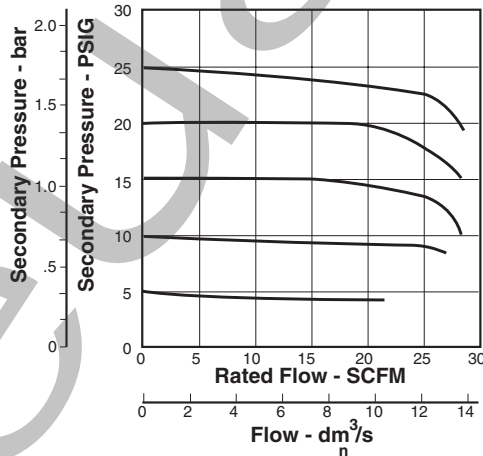
30 psig Gauge	PPA-95-107
60 psig Gauge	PPA-95-106
120 psig Gauge	PPA-95-108
Springs, Regulating 1-15 psig (0,06-1,7 bar)	RRP-96-311
Springs, Regulating 1-30 psig (0,06-2,1 bar)	RRP-96-303
Springs, Regulating 1-60 psig (0-4,1 bar)	RRP-96-302
Springs, Regulating 2-125 psig (0,13-8,6 bar)	RRP-96-301
Service Kit	RRP-96-305
Control Knob	RRP-96-312

Accessories

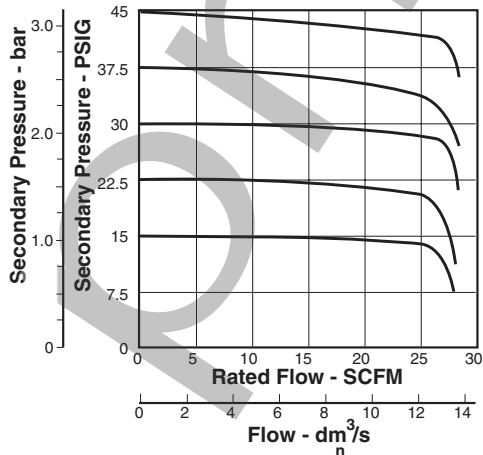
Mounting Bracket Kit (With Panel Mount Nut)	GPA-96-313
Panel Mount Nut, Metal	GPA-96-314

NOTE: Gauge not included, order separately by accessory number.

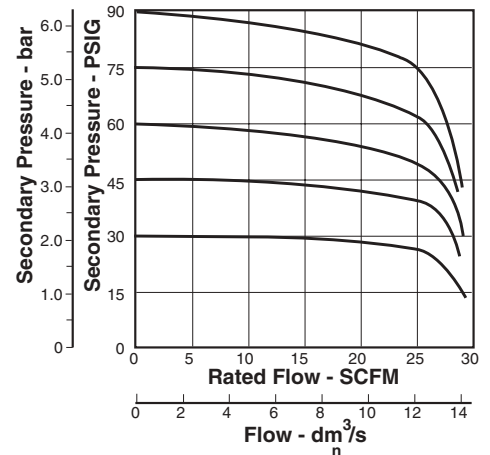
Flow Characteristics
P12-02-C000
1/4 Inch Ports
100 PSIG (6.9 bar) Primary Pressure



Flow Characteristics
P12-02-D000
1/4 Inch Ports
100 PSIG (6.9 bar) Primary Pressure



Flow Characteristics
P12-02-F000
1/4 Inch Ports
100 PSIG (6.9 bar) Primary Pressure



Sub-Compact Lubricator L12 Series

Atomist Lubricators

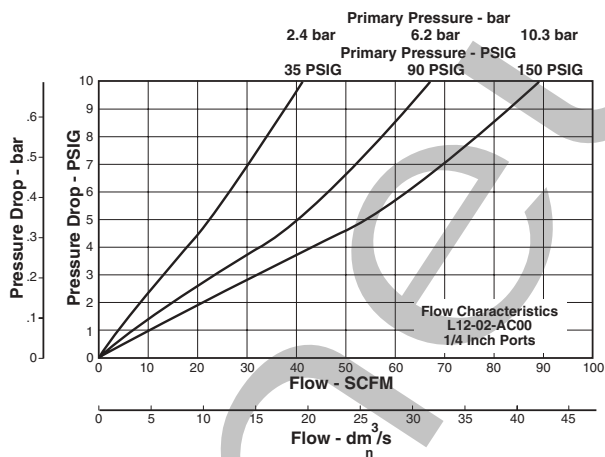
- Pipe Sizes 1/4 thru 3/4 Inch
- High Flow: 1/4" - 40 scfm
3/8" - 40 scfm
- Pressures to 250 PSIG

Ato-Mist Air Lubricators are designed to provide optimum and uniform lubrication with fine micro-mist particles of 5 micron or smaller, to pneumatic components even through complex piping arrangements.

Lubricator Selection

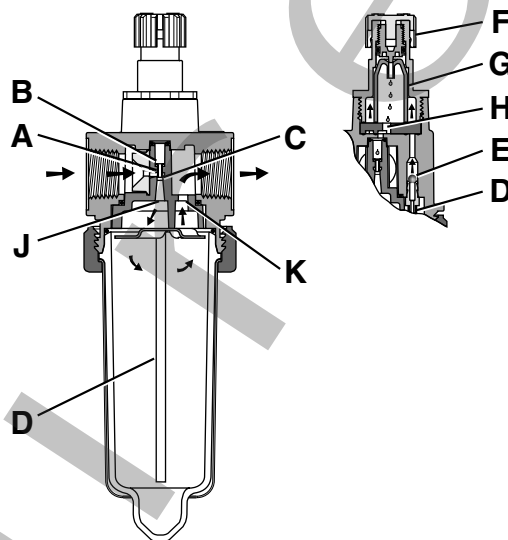
1. Determine maximum system flow requirements.
2. Determine maximum allowable pressure drop at rated flow in scfm.
3. Refer to flow chart and select lubricator by choosing the curve that offers minimum pressure drop at desired flow in scfm.

Reading Flow Charts to Size Atomist Lubricators



Once the required flow is determined for a pneumatic application the lubricator can be selected by using the flow chart. To read the lubricator flow chart, first determine the inlet pressure that will be used. Find the appropriate pressure curve on the graph. Each graph will contain three pressure curves. If the required inlet pressure is not on the graph, interpolate a similar curve for the required pressure. Next, determine the acceptable pressure drop across the lubricator and locate it on the vertical axis. Find the intersection point of the acceptable pressure drop and the inlet pressure curve. At this point follow a vertical path downward to view the flow in scfm. If the flow is too low, select a larger port size or body size to give the required flow. If the flow is higher than necessary, select a smaller port size or body size to give the required flow.

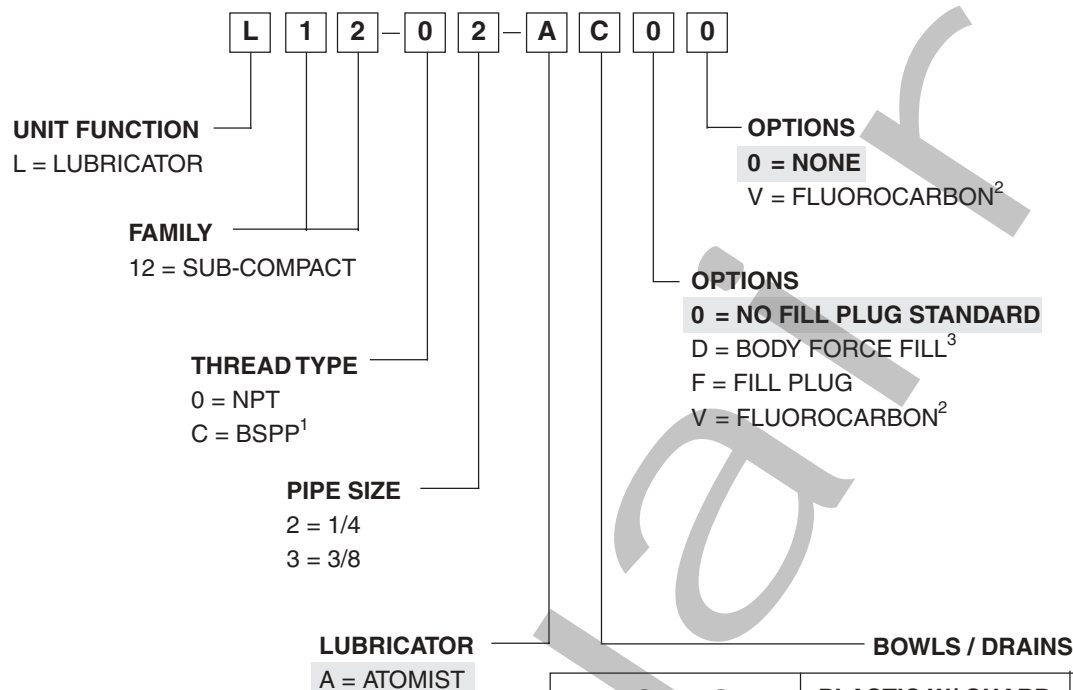
Operation



Air flowing through the unit goes through two paths. At low air flow rates, the majority of the air flows through venturi section (A). The rest of the air slightly deflects and flows by the restrictor disc (B). The velocity of the air flowing through venturi section (A) creates a pressure drop at throat section (C). This lower pressure allows oil to be forced from the reservoir through the pickup tube (D) past the check ball (E), to the meter block assembly where the rate of oil flow is controlled by metering screw (F). Rotation of the metering screw (F) in the counterclockwise direction increases the oil flow rate; in the clockwise direction decreases the oil flow rate. Oil then flows through the clearance between inner and outer sight domes (G) where drops are formed and drip into the nozzle tube (H). Here it is then broken into fine particles as it expands into the low pressure venturi. From there, the atomized oil flows through the precision orifice (J). This action causes the larger particles of oil to fall back into the reservoir where it can recirculate through the system. The remaining mist of fine particles (5 micron or smaller – about 3% of which passed through the sight dome) is then carried through opening (K) where it joins and mixes with air that bypassed the restrictor disc (B). As air flow rate increases, the restrictor disc (B) deflects, allowing most of the inlet air to bypass the venturi section (A). However, a proportion of the inlet air passes through the venturi, assuring that oil delivery increases linearly with increased air flow rate. This proportioning method is advantageous at low inlet flows because the venturi design remains efficient. The check ball (E) prevents reverse oil flow down the pickup tube when air flow stops. Thus, oil delivery can resume immediately when air flow restarts. **Atomist Lubricators can only be filled when the air supply is shut off.**

Sub-compact Lubricator Numbering System

 = "Most Popular"



<i>BOWLS</i>	PLASTIC W/ GUARD NITRILE STANDARD	METAL W/ SIGHT GAUGE NITRILE STANDARD
NONE	C	—
MANUAL DRAIN	K	L
FORCE FILL ⁴	A	B

¹ ISO, R228 (G SERIES)

² Fluorocarbon seals available only on units with metal bowl with manual drain.

³ "D" option body force fill adapter installed in fill plug location.

⁴ Bowl mounted force fill options, refer to catalog for details.

Sub-Compact Lubricator L12 Series

Lubricator L12 Atomist

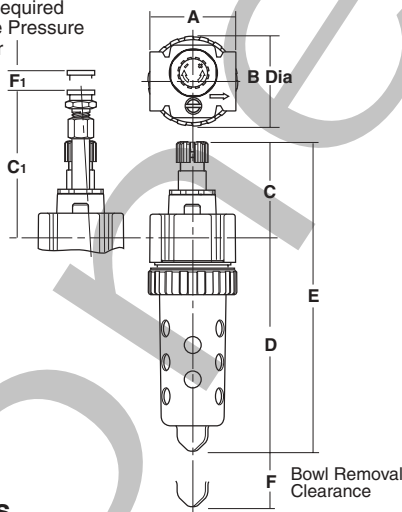


L12-02-AC00

Features

- Proportional oil delivery over a wide range of air flows.
- Generates oil particles of 5 micron and smaller downstream to lubricate systems having complex piping arrangements.
- Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rate.
- Ideal for low and high flow applications with changing air flow.
- Transparent sight dome for 360° visibility.
- Removable drip control knob for tamper resistance.

Distance Required To Remove Pressure Fill Adapter



Dimensions

Model

Sub-Compact Unit
L12-02-AC00

† With Manual Drain
Inches (mm)

	A	B	C	C ₁	D	D [†]	E	E [†]	F	F ₁
	2.00 (51)	2.06 (52)	2.26 (57)	3.35 (85)	5.12 (130)	5.35 (136)	7.38 (187)	7.61 (193)	1.77 (45)	.39 (10)

Specifications

= "Most Popular"

High Flow Capacity ¹	1/4	40 SCFM
	3/8	40 SCFM
Maximum Operating Temperature	Plastic Bowl	125°F (52°C)
	Metal Bowl	175°F (80°C)
Maximum Supply Pressure	Plastic Bowl	150 psig (10,3 bar)
	Metal Bowl	250 psig (17,2 bar)
Bowl Oil Capacity		1.5 oz. (44,3 cc ³)
Port Size	NPT/BSPP-G	1/4, 3/8
Weight	lb. (kg)	1.0 (0,45)

¹ Inlet pressure 90 psig (7 bar). Secondary pressure 5 psig (0,3 bar).

Materials of Construction

Body	Zinc	
Bowl Guard	Steel	
Bowls	Plastic Bowl	Polycarbonate
	Metal Bowl	Zinc
Collar	Plastic	
Drain-Manual	Body & Nut	Plastic
Sight Dome	Polycarbonate	
Sight Gauge	Metal Bowl	Polyamide (Nylon)
Seals	Nitrile	
Minimum Flow Requirement	2 scfm at 100 psig	

Ordering Information

Port Size	Plastic Bowl No Drain	Metal Bowl With Sight Gauge Manual Drain
1/4"	L12-02-AC00	L12-02-AL00
3/8"	L12-03-AC00	L12-03-AL00

Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

Sub-Compact Lubricator L12 Series

Replacement Bowl Kits

- Plastic Bowl / Bowl Guard, No Drain LRP-96-308
- Metal Bowl / Sight Gauge, Manual Drain LRP-96-306

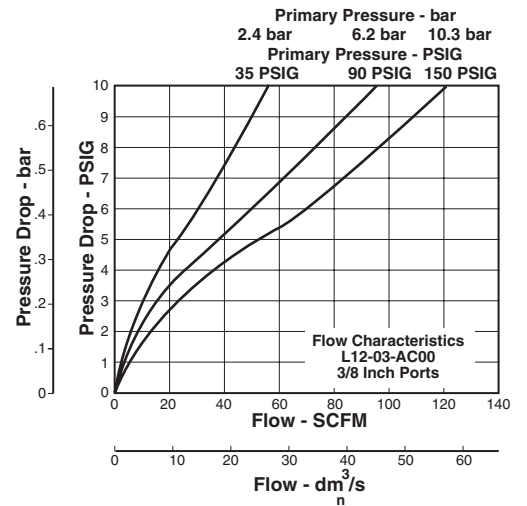
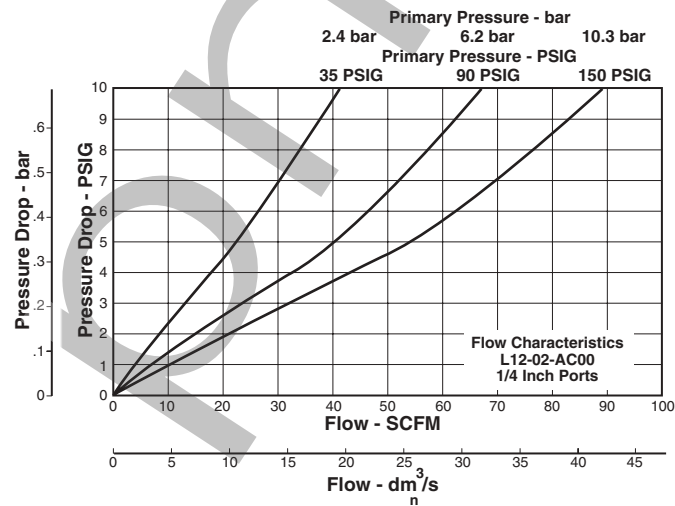
Replacement Kits

- Adjustment Knob LRP-96-300
- Bowl Guard Kit GRP-96-345
- Drain Kit – Manual Drain GRP-96-340
- Service Kit LRP-96-309
- Sight Dome Kit LRP-96-301
- Bowl Sight Gauge Kit GRP-96-346

Accessories

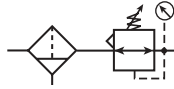
- Pressure Fill Adapter Kit LRP-96-302
- Mounting Bracket Kit (See Page 42) GPA-96-300

 = "Most Popular"



Sub-Compact Filter / Regulator B12 Series

Filter / Regulators



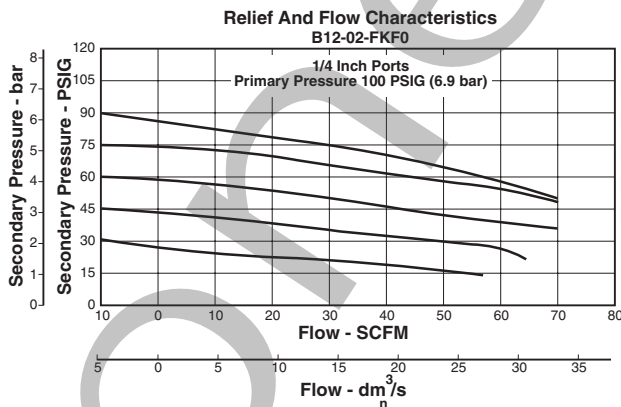
- Pipe Sizes 1/4 and 3/8 Inch
- High Flow
 - 5 Micron: 1/4" - 30 scfm
3/8" - 40 scfm
 - 40 Micron: 1/4" - 30 scfm
3/8" - 40 scfm
- Pressures to 250 psig

Integral Filter / Regulator "Piggybacks" are an excellent choice where accurate pressure regulation and high moisture removal efficiency are required in a space saving package.

Filter / Regulator Selection

1. Determine maximum system flow requirements.
2. Determine maximum allowable pressure drop at rated flow in scfm.
3. Refer to flow chart and select filter / regulator by choosing the curve that offers minimum pressure drop at desired flow in scfm.

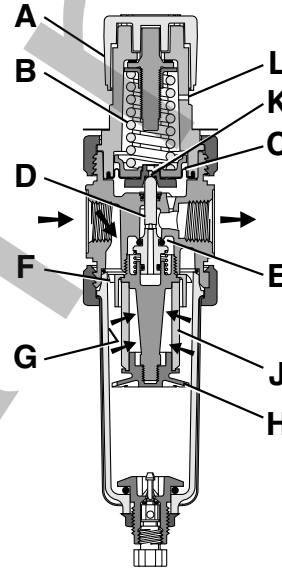
Reading Flow Charts to Size Filter / Regulators



Once the required flow is determined for a pneumatic application the filter / regulator can be selected by using the flow chart. When reading the flow chart, first determine the secondary pressure that will be used. Find the appropriate

pressure curve on the graph. Given an acceptable pressure drop for an application, follow the flow curve until it intersects the pressure drop point. This will give the flow at that particular pressure drop.

Operation

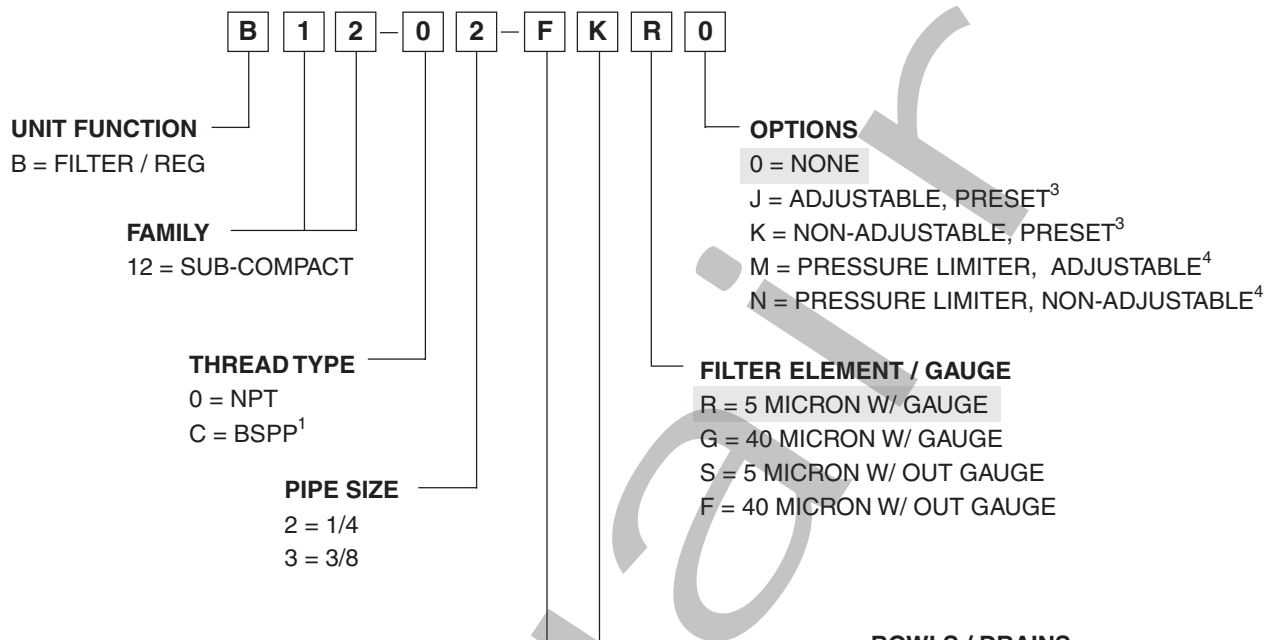


Turning the knob (A) clockwise applies a load to control spring (B) which forces the piston/diaphragm (C) and valve assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the valve assembly and the seat. "First stage filtration" begins when air pressure supplied to the inlet port is directed through deflector plate (F) causing a swirling centrifugal action forcing liquids and coarse particles to the inner bowl wall (G) and down below the lower baffle (H) to the quiet zone. After liquids and large particles are removed in the first stage of filtration "second stage filtration" occurs as air flows through element (J) where smaller particles are filtered out and retained. The air flow now passes through seat area (E) to the outlet port of the unit.

Pressure in the downstream line is sensed below the piston / diaphragm (C) and offsets the load of control spring (B). When downstream pressure reaches the set-point, the valve assembly (D) and piston / diaphragm (C) move upward closing seat area (E). Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the piston / diaphragm (C) to move upward opening vent hole (K) venting the excess pressure to atmosphere through the hole in the bonnet (L). (This occurs in the standard relieving type regulator only.)

Sub-compact Filter / Regulator Numbering System

 = "Most Popular"



	BOWLS / DRAINS		
<i>BOWLS</i>	PLASTIC W/ GUARD	METAL W/ NO SIGHT GAUGE	METAL W/ SIGHT GAUGE
MANUAL DRAIN	K	X	L
PISTON DRAIN	R	M	S

FILTER / REGULATOR COMBO

DIAPHRAGM FUNCTION	FLUOROCARBON	SPRING RANGE			
		0-30 psi (0-2,1 bar)	0-60 psi (0-4,1 bar)	0-125 psi (0-8,6 bar)	0-200 psi ⁵ (0-13,8 bar)
RELIEVING	NO	C	D	F	H
	YES ²	J	K	L	N
NON-RELIEVING	NO	P	W	R	T
	YES ²	V	X	Y	U

¹ ISO, R228 (G SERIES).

² Fluorocarbon seals available only on units with metal bowl with manual drain.

³ Specify both inlet and outlet (set) pressures.

⁴ Specify both inlet pressure and maximum limited pressure.

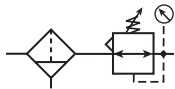
⁵ 0-200 psi (0-13,8 bar) pressure range available only on units with metal bowl.

"A" 5 micron elements: All Wilkerson Type "A" 5 micron elements meet or exceed ISO Class 3 for maximum particle size and concentration of solid contaminants.

NOTE: All classes above refer to International Standards Organization (ISO) standard 8573-1:1991(E), pertaining to maximum particle size and concentration of solid contaminants, and maximum oil content.

Sub-Compact Filter / Regulator B12 Series

Filter / Regulator B12



B12-02-FKS0

Features

- Space saving package offers both filter and regulator features for optimal performance.
- Excellent water removal efficiency.
- Rolling diaphragm for extended life.
- Removable non-rising knob for tamper resistance.
- Quick response, and accurate pressure regulation regardless of changing flow or inlet pressure.
- 5 micron standard, 40 micron filter element available.

⚠ WARNING
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.
Product rupture can cause serious injury.

CAUTION:
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

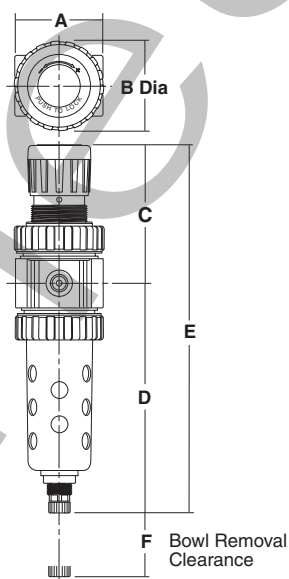
NOTE: Panel Mount Nut sold separately.

Dimensions

Model

Sub-Compact Unit
 B12-02-FKS0

† With Manual or Piston Drain
 Inches (mm)



Specifications

High Flow Capacity ¹	Port Size	5 Micron	40 Micron
	1/4	25 SCFM	30 SCFM
	3/8	30 SCFM	40 SCFM
Bowl Capacity	Ounces	2.0	
Maximum Operating Temperature	Plastic Bowl	125°F (52°C)	
	Metal Bowl	175°F (80°C)	
Maximum Supply Pressure	Plastic Bowl	150 psig (10,3 bar)	
	Metal Bowl	250 psig (17,2 bar)	
Standard Filtration	Micron	5	
Useful Retention ²	oz. (cc)	.9 (26,6)	
Gauge Ports (2x)	NPT/BSPP-G	1/4	
Port Size	NPT/BSPP-G	1/4, 3/8	
Weight	lb. (kg)	1.35 (0,6)	

¹ Inlet pressure 100 psig (7 bar), no flow secondary pressure set 90 psig (6,2 bar), 10 psig pressure drop at rated flow.
² Useful retention refers to volume below the quiet zone baffle.

Materials of Construction

Body	Zinc	
Adjustment Knob	Plastic	
Bonnet, Internal Parts	Plastic	
Bowls	Plastic Bowl	Polycarbonate
	Metal Bowl	Zinc
Bowl Guard	Steel	
Drain	Plastic	
Filter Element	Sintered Plastic	
Seals	Nitrile	
Springs	Steel	
Valve Assembly	Plastic	
Diaphragm	Nitrile	

Ordering Information

Port Size	Plastic Bowl w/ Guard		Metal Bowl w/ Sight Gauge	
	Manual Drain	Piston Drain	Manual Drain	Piston Drain
1/4"	B12-02-FKS0	B12-02-FRS0	B12-02-FLS0	B12-02-FSS0
3/8"	B12-03-FKS0	B12-03-FRS0	B12-03-FLS0	B12-03-FSS0

Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

A	B	C	D [†]	E [†]	F
2.00 (51)	2.06 (52)	3.16 (80)	5.35 (136)	8.51 (216)	1.77 (45)

Sub-Compact Filter / Regulator B12 Series

 = "Most Popular"

Replacement Bowl Kits

Plastic Bowl Guard	GRP-96-345
Plastic Bowl / Piston Drain	GRP-96-351
Plastic Bowl / Manual Drain	GRP-96-347
Metal Bowl / Piston Drain	GRP-96-353
Metal Bowl / Manual Drain	GRP-96-348
Metal Bowl / Sight Gauge / Piston Drain	GRP-96-352
Metal Bowl / Sight Gauge / Manual Drain	GRP-96-349

Springs, Regulating 1-30 psig (0,06-2,1 bar)	RRP-96-303
Springs, Regulating 1-60 psig (0,06-4,1 bar)	RRP-96-302
Springs, Regulating 2-125 psig (0,13-8,6 bar)	RRP-96-301
Springs, Regulating 2-200 psig (0,13-17,2 bar)	RRP-96-304
Relieving, Service Kit	RRP-96-306
Non-Relieving, Service Kit	RRP-96-307

Replacement Element Kits

5 Micron	GRP-96-344
40 Micron	GRP-96-343

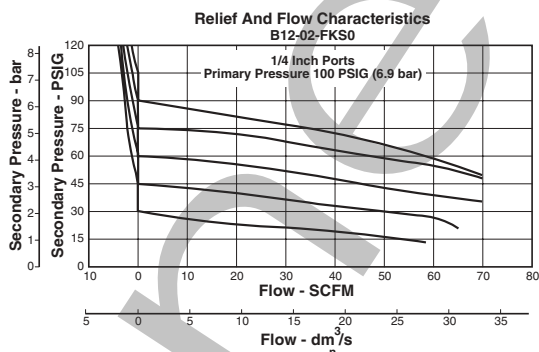
Replacement Kits

Bonnet Assembly Kit	RRP-96-308
Control Knob	RRP-96-300
30 psig Gauge	RRP-96-663
60 psig Gauge	RRP-96-664
160 psig Gauge	RRP-96-665
300 psig Gauge	RRP-96-666

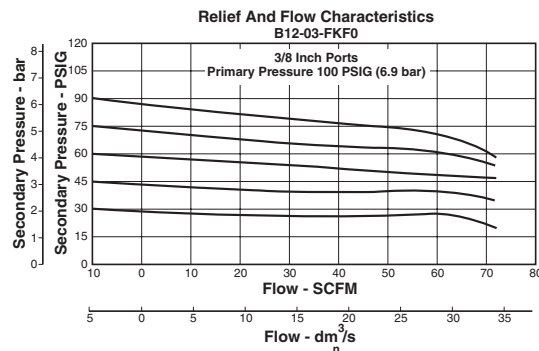
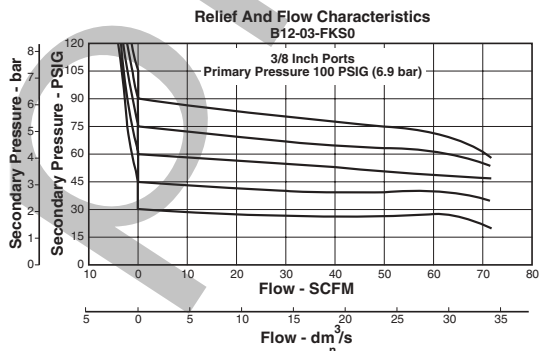
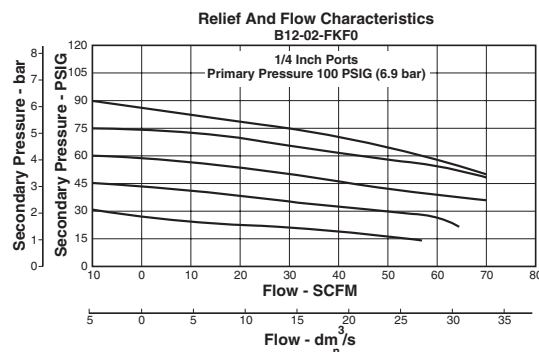
Accessories

Drain Kit / Piston Drain	GRP-96-354
Drain Kit / Manual Drain	GRP-96-340
Mounting Bracket Kit (With Panel Mount Nut)	GPA-96-313
Panel Mount Nut, Metal	GPA-96-314
Sight Gauge Kit	GRP-96-346

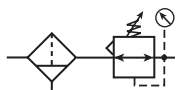
5 Micron Element



40 Micron Element



Precision Filter / Regulators



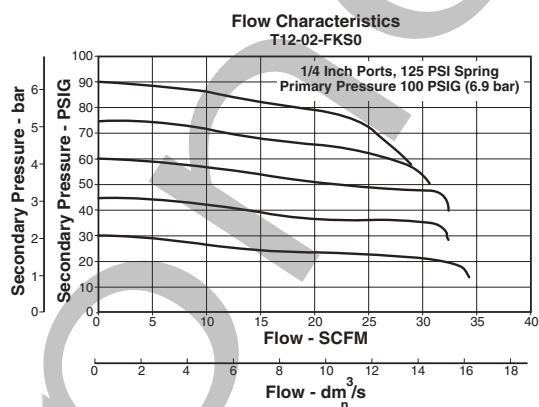
- Pipe Sizes 1/4 and 3/8 Inch
- High Flow
 - 5 Micron: 1/4" - 25 scfm
3/8" - 25 scfm
 - 40 Micron: 1/4" - 25 scfm
3/8" - 25 scfm
- Pressures to 250 psig

Integral Filter / Regulator "Piggybacks" are an excellent choice where accurate pressure regulation and high moisture removal efficiency are required in a space saving package.

Filter / Regulator Selection

1. Determine maximum system flow requirements.
2. Determine maximum allowable pressure drop at rated flow in scfm.
3. Refer to flow chart and select filter / regulator by choosing the curve that offers minimum pressure drop at desired flow in scfm.

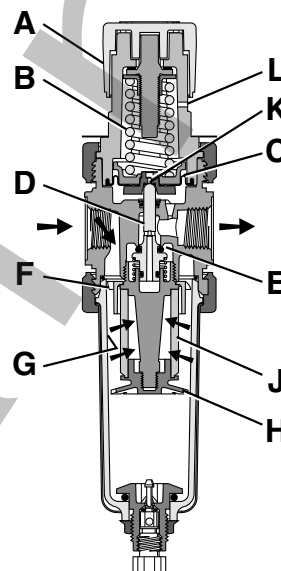
Reading Flow Charts to Size Filter / Regulators



Once the required flow is determined for a pneumatic application the filter / regulator can be selected by using the flow chart. To read the relief characteristics use the left side of the chart. When reading the flow chart, first determine the

secondary pressure that will be used. Find the appropriate pressure curve on the graph. Given an acceptable pressure drop for an application, follow the flow curve until it intersects the pressure drop point. This will give the flow at that particular pressure drop.

Operation

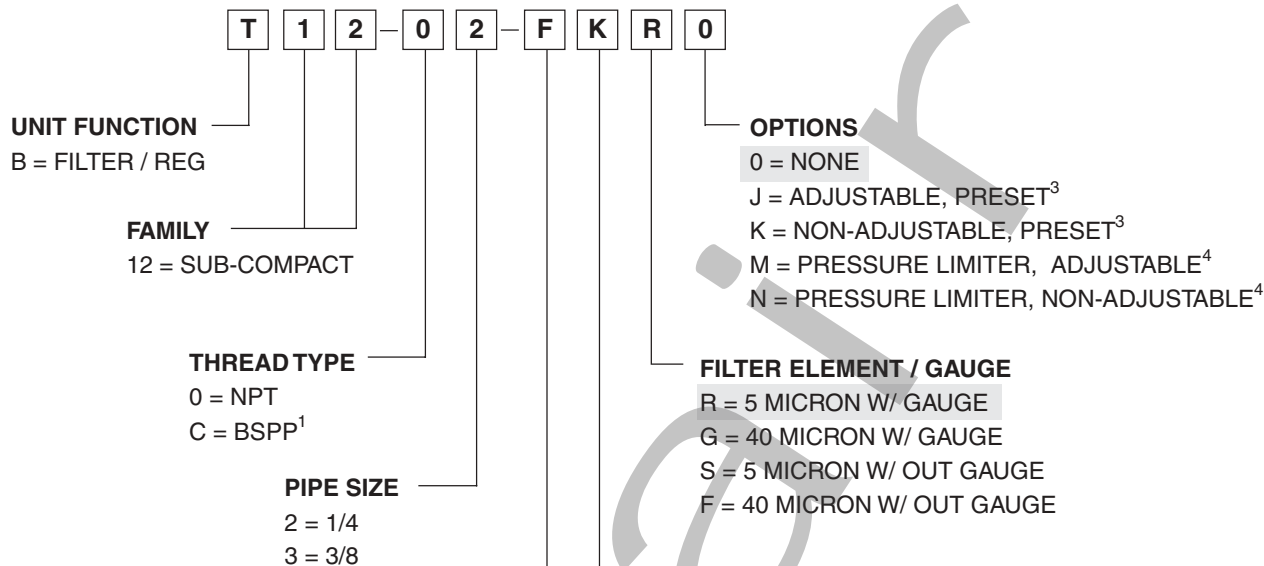


Turning the knob (A) clockwise applies a load to control spring (B) which forces the piston/diaphragm (C) and valve assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the valve assembly and the seat. "First stage filtration" begins when air pressure supplied to the inlet port is directed through deflector plate (F) causing a swirling centrifugal action forcing liquids and coarse particles to the inner bowl wall (G) and down below the lower baffle (H) to the quiet zone. After liquids and large particles are removed in the first stage of filtration "second stage filtration" occurs as air flows through element (J) where smaller particles are filtered out and retained. The air flow now passes through seat area (E) to the outlet port of the unit.

Pressure in the downstream line is sensed below the piston / diaphragm (C) and offsets the load of control spring (B). When downstream pressure reaches the set-point, the valve assembly (D) and piston / diaphragm (C) move upward closing seat area (E). Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the piston / diaphragm (C) to move upward opening vent hole (K) venting the excess pressure to atmosphere through the hole in the bonnet (L). (This occurs in the standard relieving type regulator only.)

Sub-compact Precision Filter / Regulator Numbering System

 = "Most Popular"



BOWLS / DRAINS

<i>BOWLS</i>	PLASTIC W/ GUARD	METAL W/ NO SIGHT GAUGE	METAL W/ SIGHT GAUGE
MANUAL DRAIN	K	X	L
PISTON DRAIN	R	M	S

FILTER / REGULATOR COMBO

DIAPHRAGM FUNCTION	FLUOROCARBON	SPRING RANGE			
		0-15 psi (0-1,7 bar)	0-30 psi (0-2,1 bar)	0-60 psi (0-4,1 bar)	0-125 psi (0-8,6 bar)
RELIEVING	NO	A	C	D	F
	YES ²	B	J	K	L

¹ ISO, R228 (G SERIES).

² Fluorocarbon seals available only on units with metal bowl with manual drain.

³ Specify both inlet and outlet (set) pressures.

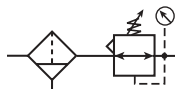
⁴ Specify both inlet pressure and maximum limited pressure.

Type "A" 5 micron elements: All Wilkerson Type "A" 5 micron elements meet or exceed ISO Class 3 for maximum particle size and concentration of solid contaminants.

NOTE: All classes above refer to International Standards Organization (ISO) standard 8573-1:1991(E), pertaining to maximum particle size and concentration of solid contaminants, and maximum oil content.

Sub-Compact Precision Filter / Regulator T12 Series

Precision Filter / Regulator T12



T12-02-FKS0

Features

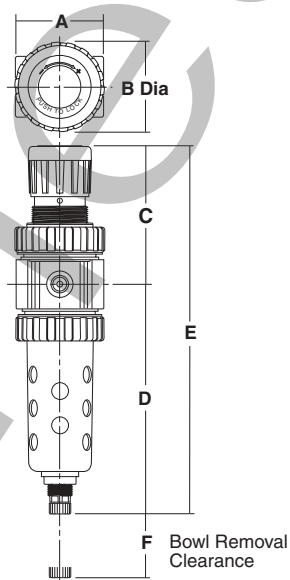
- Space saving package offers both filter and regulator features for optimal performance.
- Excellent water removal efficiency.
- Rolling diaphragm for extended life.
- Removable non-rising knob for tamper resistance.
- Quick response, and accurate pressure regulation regardless of changing flow or inlet pressure.
- 5 micron standard.

⚠ WARNING
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.
Product rupture can cause serious injury.

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

NOTE: Panel Mount Nut sold separately.



Dimensions

Model

Sub-Compact Unit
T12-02-FKS0

† With Manual or Piston Drain
Inches (mm)

Specifications

High Flow Capacity ¹	Port Size	5 and 40 Micron	
	1/4	25 SCFM	
	3/8	25 SCFM	
Bowl Capacity	Ounces	2.0	
Maximum Operating Temperature	Plastic Bowl	125°F (52°C)	
	Metal Bowl	175°F (80°C)	
Maximum Supply Pressure	Plastic Bowl	150 psig (10,3 bar)	
	Metal Bowl	250 psig (17,2 bar)	
Standard Filtration	Micron	5	
Useful Retention ²	oz. (cc)	.9 (26,6)	
Gauge Ports (2x)	NPT/BSPP-G	1/4	
Port Size	NPT/BSPP-G	1/4, 3/8	
Weight	lb. (kg)	1.35 (0,6)	

¹ Inlet pressure 100 psig (7 bar), no flow secondary pressure set 90 psig (6,2 bar), 10 psig pressure drop at rated flow.
² Useful retention refers to volume below the quiet zone baffle.

Materials of Construction

Body	Zinc	
Adjustment Knob	Plastic	
Bonnet, Internal Parts	Plastic	
Bowls	Plastic Bowl	Polycarbonate
	Metal Bowl	Zinc
Bowl Guard	Steel	
Drain	Plastic	
Filter Element	Sintered Plastic	
Seals	Nitrile	
Springs	Steel	
Valve Assembly	Plastic	
Diaphragm	Nitrile	

Ordering Information

Port Size	Plastic Bowl w/ Guard		Metal Bowl w/ Sight Gauge	
	Manual Drain	Piston Drain	Manual Drain	Piston Drain
1/4"	T12-02-FKS0	T12-02-FRS0	T12-02-FLS0	T12-02-FSS0
3/8"	T12-03-FKS0	T12-03-FRS0	T12-03-FLS0	T12-03-FSS0

Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

A	B	C	D [†]	E [†]	F
2.00 (51)	2.06 (52)	3.16 (80)	5.35 (136)	8.51 (216)	1.77 (45)

Sub-Compact Precision Filter / Regulator T12 Series

 = "Most Popular"

Replacement Bowl Kits

Plastic Bowl Guard	GRP-96-345
Plastic Bowl / Piston Drain	GRP-96-351
Plastic Bowl / Manual Drain	GRP-96-347
Metal Bowl / Piston Drain	GRP-96-353
Metal Bowl / Manual Drain	GRP-96-348
Metal Bowl / Sight Gauge / Piston Drain	GRP-96-352
Metal Bowl / Sight Gauge / Manual Drain	GRP-96-349

Springs, Regulating 1-15 psig (0,06-1,7 bar)	RRP-96-311
Springs, Regulating 1-30 psig (0,06-2,1 bar)	RRP-96-303
Springs, Regulating 1-60 psig (0,06-4,1 bar)	RRP-96-302
Springs, Regulating 2-125 psig (0,13-8,6 bar)	RRP-96-301
Springs, Regulating 2-200 psig (0,13-17,2 bar)	RRP-96-304
Relieving, Service Kit	RRP-96-305

Replacement Element Kits

5 Micron	GRP-96-344
40 Micron	GRP-96-343

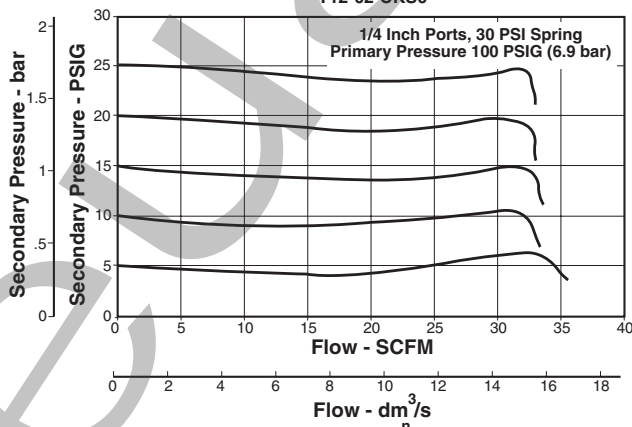
Accessories

Drain Kit / Piston Drain	GRP-96-354
Drain Kit / Manual Drain	GRP-96-340
Mounting Bracket Kit (With Panel Mount Nut)	GPA-96-313
Panel Mount Nut, Metal	GPA-96-314
Sight Gauge Kit	GRP-96-346

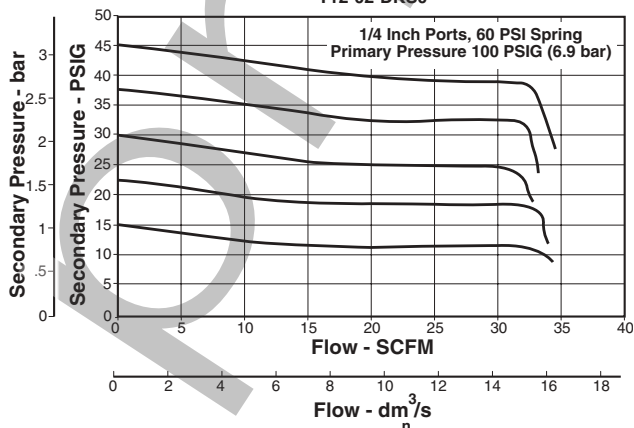
Replacement Kits

Bonnet Assembly Kit	RRP-96-308
Control Knob	RRP-96-312
30 psig Gauge	PPA-95-107
60 psig Gauge	PPA-95-106
120 psig Gauge	PPA-95-108

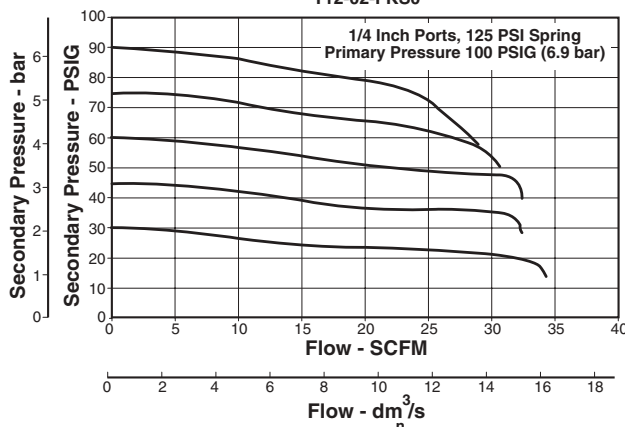
**Flow Characteristics
T12-02-CKS0**



**Flow Characteristics
T12-02-DKS0**



**Flow Characteristics
T12-02-FKS0**

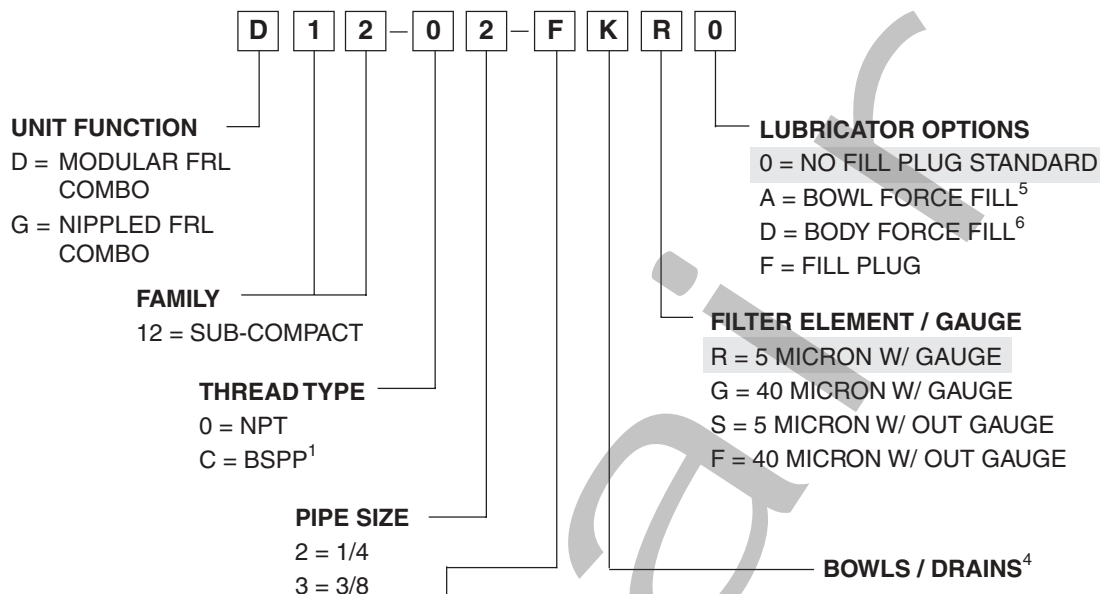


Notes

Coast Pneumatics

Sub-compact Filter / Regulator - Lubricator Numbering System

 = "Most Popular"



<u>DRAINS</u>	<u>BOWLS</u>		
	PLASTIC W/ GUARD	METAL W/ NO SIGHT GAUGE	METAL W/ SIGHT GAUGE
MANUAL DRAIN	K	X	L
PISTON DRAIN	R	M	S

REGULATOR OPTIONS

DIAPHRAGM FUNCTION	FLUOROCARBON	SPRING RANGE			
		0-30 psi (0-2,1 bar)	0-60 psi (0-4,1 bar)	0-125 psi (0-8,6 bar)	0-200 psi⁵ (0-13,8 bar)
RELIEVING	NO	C	D	F	H
	YES ²	J	K	L	N
NON-RELIEVING	NO	P	W	R	T
	YES ²	V	X	Y	U

¹ ISO, R228 (G SERIES)

² Fluorocarbon seals available only on units with metal bowl with manual drain.

³ 0-200 psi (0-13,8 bar) pressure range available only on units with metal bowl.

⁴ Filter bowl selection only. Lubricator bowl material same as filter bowl (plastic or metal). Plastic lubricator bowl comes with closed-end bowl as standard. Metal lubricator bowl comes with manual drain standard.

⁵ Bowl mounted force fill option, refer to catalog for details.

⁶ "D" option force fill adapter installed in fill plug location.

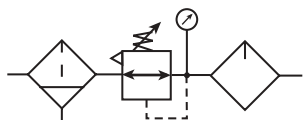
Type "A" 5 micron elements: All Wilkerson Type "A" 5 micron elements meet or exceed ISO Class 3 for maximum particle size and concentration of solid contaminants.

NOTE: All classes above refer to International Standards Organization (ISO) standard 8573-1:1991(E), pertaining to maximum particle size and concentration of solid contaminants, and maximum oil content.

Sub-Compact Modular Combination D12 Series

Modular Combination

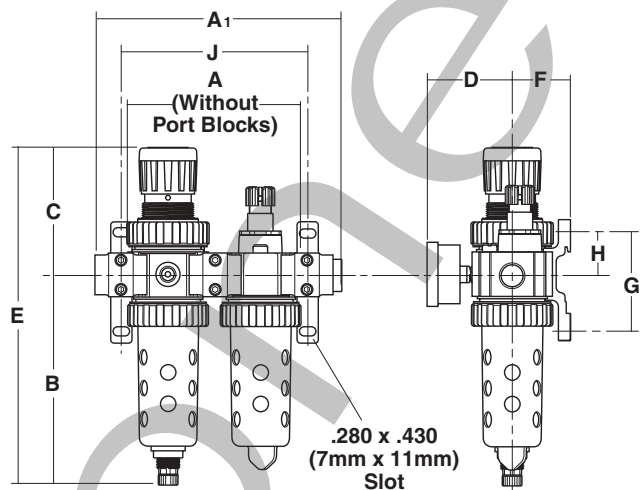
D12



D12-02-FKR0

Features

- See individual component pages for details.
- Port Blocks, Manifold Block, Ball Valve and Wall Bracket must be ordered separately.



Specifications

High Flow Capacity ¹	1/4	40 SCFM
	3/8	40 SCFM
Maximum Operating Temperature	Plastic Bowl	125°F (52°C)
	Metal Bowl	175°F (80°C)
Maximum Supply Pressure	Plastic Bowl	150 psig (10,3 bar)
	Metal Bowl	250 psig (17,2 bar)
Useful Retention	oz. (cc)	.9 (26,6)
Gauge Ports (2x)	NPT/BSPP-G	1/4
Port Size	NPT/BSPP-G	1/4, 3/8
Weight	lb. (kg)	2.50 (1,13)

¹ Inlet pressure 100 psig (7 bar). Secondary pressure 90 psig (6,2 bar).

Materials of Construction

Body	Zinc	
Bowl Guard	Steel	
Bowls	Plastic Bowl	Polycarbonate
	Metal Bowl	Zinc
Collar	Plastic	
Drain-Manual	Body & Nut	Plastic
Sight Dome	Polycarbonate	
Sight Gauge	Metal Bowl	Polyamide (Nylon)
Seals	Nitrile	

Ordering Information

Port Size	Plastic Bowl With Guard Manual Drain	Metal Bowl With Sight Gauge Manual Drain
1/4"	D12-02-FKR0	D12-02-FLR0
3/8"	D12-03-FKR0	D12-03-FLR0

Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

Dimensions

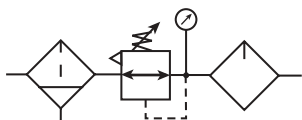
Model

Sub-Compact Unit
D12-02-FKR0

A	A ₁	B	C	D	E	F	G	H	J
4.33 (110)	6.38 (162)	5.35 (136)	3.15 (80)	2.05 (52)	8.50 (216)	1.45 (37)	2.60 (66)	1.14 (29)	4.72 (120)

Inches (mm)

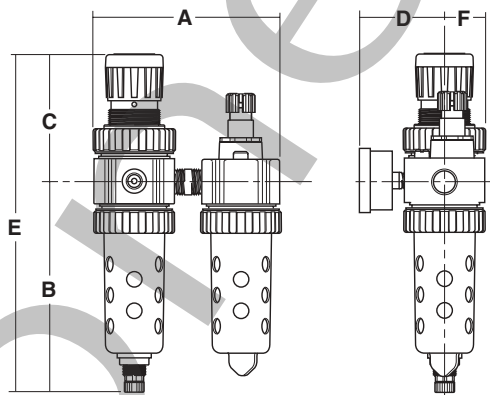
Nippled Combination G12



G12-02-FKR0

Features

- See individual component pages for details.



Dimensions

Model

Sub-Compact Unit
G12-02-FKR0

Inches (mm)

A	B	C	D	E	F
4.49	5.35	2.24	2.05	8.50	1.09
114	136	57	52	216	26

Specifications

High Flow Capacity ¹	1/4	40 SCFM
	3/8	40 SCFM
Maximum Operating Temperature	Plastic Bowl	125°F (52°C)
	Metal Bowl	175°F (80°C)
Maximum Supply Pressure	Plastic Bowl	150 psig (10,3 bar)
	Metal Bowl	250 psig (17,2 bar)
Useful Retention	oz. (cc)	.9 (26,6)
Gauge Ports (2x)	NPT/BSPP-G	1/4
Port Size	NPT/BSPP-G	1/4, 3/8
Weight	lb. (kg)	2.45 (1,11)

¹ Inlet pressure 100 psig (7 bar). Secondary pressure 90 psig (6,2 bar).

Materials of Construction

Body	Zinc	
Bowl Guard	Steel	
Bowls	Plastic Bowl	Polycarbonate
	Metal Bowl	Zinc
Collar	Plastic	
Drain-Manual	Body & Nut	Plastic
Sight Dome	Polycarbonate	
Sight Gauge	Metal Bowl	Polyamide (Nylon)
Seals	Nitrile	
Suggested Lubricant		

Ordering Information

Port Size	Plastic Bowl With Guard Manual Drain	Metal Bowl With Sight Gauge Manual Drain
1/4"	G12-02-FKR0	G12-02-FLR0
3/8"	G12-03-FKR0	G12-03-FLR0

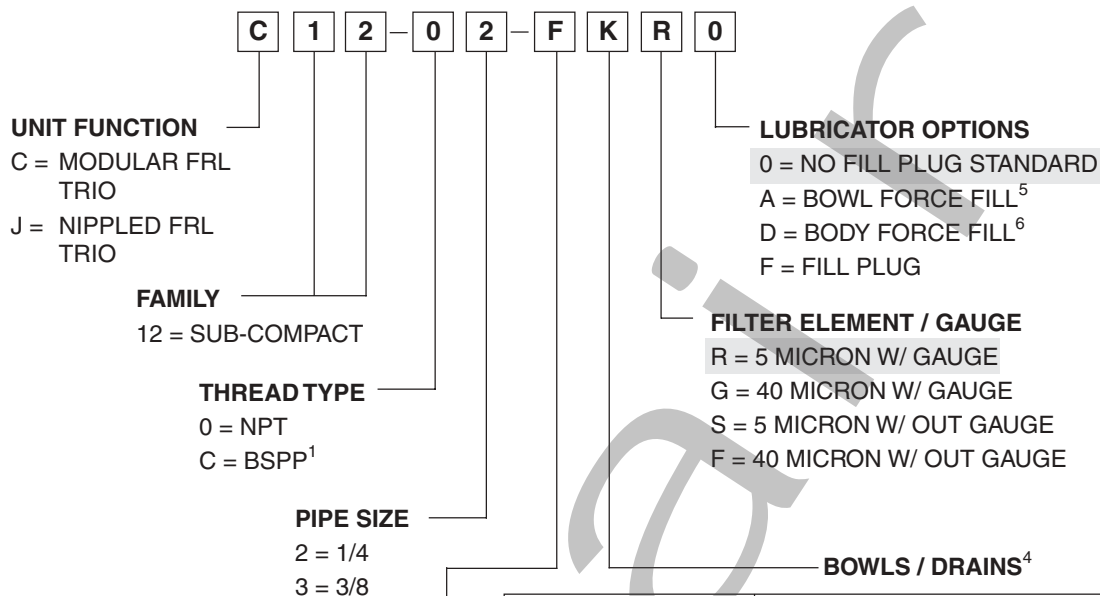
Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

Notes

Coast Pneumatics

Sub-compact Combination Numbering System

 = "Most Popular"



<u>DRAINS</u>	<u>BOWLS</u>		
	PLASTIC W/ GUARD	METAL W/ NO SIGHT GAUGE	METAL W/ SIGHT GAUGE
MANUAL DRAIN	K	X	L
PISTON DRAIN	R	M	S

REGULATOR OPTIONS

DIAPHRAGM FUNCTION	FLUOROCARBON	SPRING RANGE			
		0-30 psi (0-2,1 bar)	0-60 psi (0-4,1 bar)	0-125 psi (0-8,6 bar)	0-200 psi⁵ (0-13,8 bar)
RELIEVING	NO	C	D	F	H
	YES ²	J	K	L	N
NON-RELIEVING	NO	P	W	R	T
	YES ²	V	X	Y	U

¹ ISO, R228 (G SERIES THREADS)

² Fluorocarbon seals available only on units with metal bowl with manual drain.

³ 0-200 psi (0-13,8 bar) pressure range available only on units with metal bowl.

⁴ Filter bowl selection only. Lubricator bowl material same as filter bowl (plastic or metal). Plastic lubricator bowl comes with closed-end bowl as standard. Metal lubricator bowl comes with manual drain standard.

⁵ Bowl mounted force fill option, refer to catalog for details.

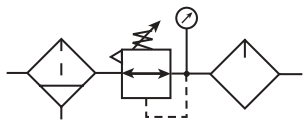
⁶ "D" option force fill adapter installed in fill plug location.

Type "A" 5 micron elements: All Wilkerson Type "A" 5 micron elements meet or exceed ISO Class 3 for maximum particle size and concentration of solid contaminants.

NOTE: All classes above refer to International Standards Organization (ISO) standard 8573-1:1991(E), pertaining to maximum particle size and concentration of solid contaminants, and maximum oil content.

Sub-Compact Modular Combination C12 Series

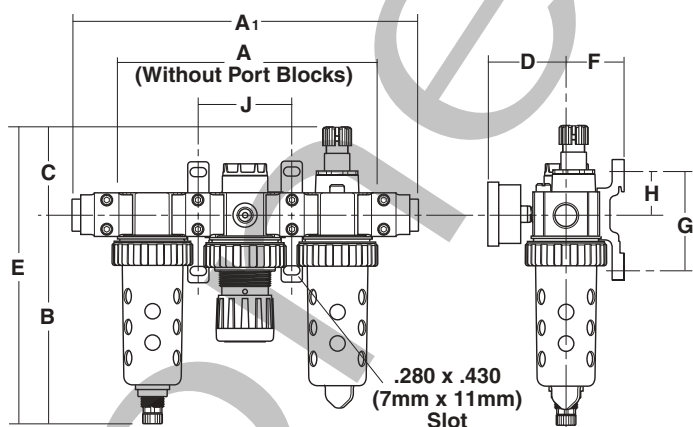
Modular Combination C12



C12-02-FKR0

Features

- Regulator can be mounted with knob in up or down position.
- See individual component pages for details.
- Port Blocks, Manifold Blocks and Ball Valve must be ordered separately.



Dimensions

Model	A	A ₁	B	C	D	E	F	G	H	J
Sub-Compact Unit C12-02-FKR0	5.70 (170)	8.72 (222)	5.35 (136)	2.24 (57)	2.05 (52)	7.59 (193)	1.45 (37)	2.60 (66)	1.14 (29)	2.35 (60)

Inches (mm)

Specifications

High Flow Capacity ¹	1/4	40 SCFM
	3/8	40 SCFM
Maximum Operating Temperature	Plastic Bowl	125°F (52°C)
	Metal Bowl	175°F (80°C)
Maximum Supply Pressure	Plastic Bowl	150 psig (10,3 bar)
	Metal Bowl	250 psig (17,2 bar)
Useful Retention	oz. (cc)	.9 (26,6)
Gauge Ports (2x)	NPT/BSPP-G	1/4
Port Size	NPT/BSPP-G	1/4, 3/8
Weight	lb. (kg)	3.72 (1,69)

¹ Inlet pressure 100 psig (7 bar). Secondary pressure 90 psig (6,2 bar).

Materials of Construction

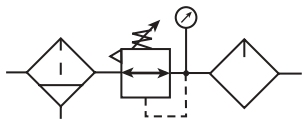
Body	Zinc	
Bowl Guard	Steel	
Bowls	Plastic Bowl	Polycarbonate
	Metal Bowl	Zinc
Collar	Plastic	
Drain-Manual	Body & Nut	Plastic
Sight Dome	Polycarbonate	
Sight Gauge	Metal Bowl	Polyamide (Nylon)
Seals	Nitrile	

Ordering Information (Includes Gauges)

Port Size	Plastic Bowl With Guard Manual Drain	Metal Bowl With Sight Gauge Piston Drain
1/4"	C12-02-FKR0	C12-02-FSR0
3/8"	C12-03-FKR0	C12-03-FSR0

Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

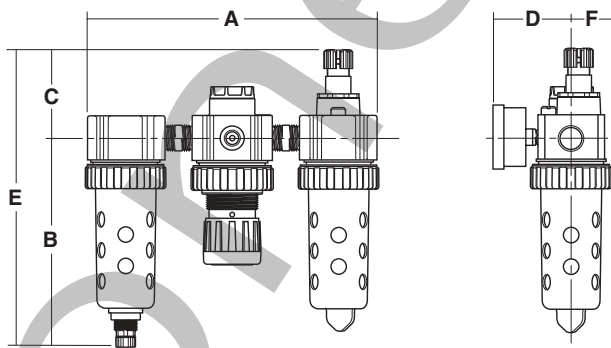
Nippled Combination J12



J12-02-FKR0

Features

- Regulator can be mounted with knob in up or down position.
- See individual component pages for details.



Dimensions

Model

Sub-Compact Unit
J12-02-FKR0

Inches (mm)

A	B	C	D	E	F
7.00 (178)	5.35 (136)	2.24 (57)	2.05 (52)	7.59 (193)	1.09 (26)

Specifications

High Flow Capacity ¹	1/4	40 SCFM
	3/8	40 SCFM
Maximum Operating Temperature	Plastic Bowl	125°F (52°C)
	Metal Bowl	175°F (80°C)
Maximum Supply Pressure	Plastic Bowl	150 psig (10,3 bar)
	Metal Bowl	250 psig (17,2 bar)
Useful Retention	oz. (cc)	.9 (26,6)
Gauge Ports (2x)	NPT/BSPP-G	1/4
Port Size	NPT/BSPP-G	1/4, 3/8
Weight	lb. (kg)	3.61 (1,65)

¹ Inlet pressure 100 psig (7 bar). Secondary pressure 90 psig (6,2 bar).

Materials of Construction

Body	Zinc	
Bowl Guard	Steel	
Bowls	Plastic Bowl	Polycarbonate
	Metal Bowl	Zinc
Collar	Plastic	
Drain-Manual	Body & Nut	Plastic
Sight Dome	Polycarbonate	
Sight Gauge	Metal Bowl	Polyamide (Nylon)
Seals	Nitrile	

Ordering Information

Port Size	Plastic Bowl With Guard Manual Drain	Metal Bowl With Sight Gauge Manual Drain
1/4"	J12-02-FKR0	J12-02-FLR0
3/8"	J12-03-FKR0	J12-03-FLR0

Options - To order additional or alternate options, add the appropriate option letter code in the designated position of the model number. (See Numbering System page.) For additional information on accessories and repair kits refer to pages 42 through 43.

Body Connectors

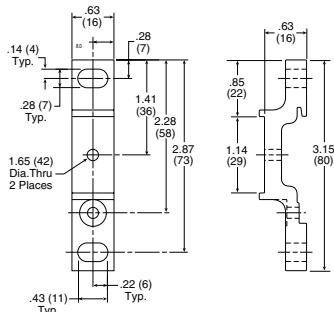
GPA-96-310



Body Connectors allow for easy assembly and disassembly of Modular Combinations. Body Connectors are required to assemble two components together. Each Kit includes one set.

Wall Mounting Kits

GPA-96-311



Wall Mounting Kits are available for mounting Modular Assemblies and can be assembled and used with any standard body connector set.

Wall Mounting Kits will fit Standard DIN rail.

Modular Combinations are always identical in size, which allow predrilling for wall mounting on equipment.

Oval mounting holes will accommodate competitive mounting patterns.

Kit includes 1 assembly.

Body Connector / Wall Mount Kit

GPA-96-312



The GPA-96-312 is a combination GPA-96-310 Body Connector and a GPA-96-311 Wall Mount Bracket. Each Kit includes one set.

Pressure Gauges

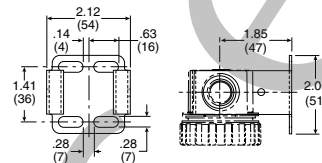
- 0-30 PSIG RRP-96-663
- 0-60 PSIG RRP-96-664
- 0-160 PSIG RRP-96-665
- 0-300 PSIG RRP-96-666



Pressure Gauges allow accurate monitoring of system pressures. Three pressure ranges are available to better match system requirements.

Mounting Bracket Kit

GPA-96-300



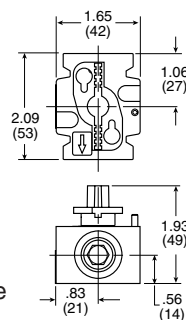
Modular Lockout Ball Valve

V12-02-0000

(1/4" Ports)

V12-03-0000

(3/8" Ports)



Ball Valves provide positive shutoff and exhaust capability to isolate Modular units so they can be easily removed from the line and can be locked in a closed position.

NOTE: Body Connectors are not supplied with Ball Valves.

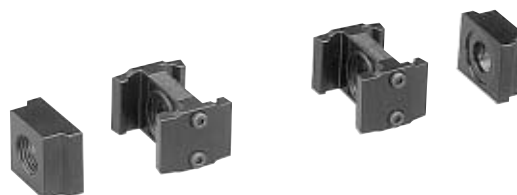
Port Block Connectors

1/8"

1/4"

3/8"

- | | | | |
|------------|----------------|---------------|------------|
| NPT | GPA-96-301 ... | GPA-96-302 .. | GPA-96-303 |
| BSPP | GPA-96-304 ... | GPA-96-305 .. | GPA-96-306 |
| BSPT | GPA-96-307 ... | GPA-96-308 .. | GPA-96-309 |

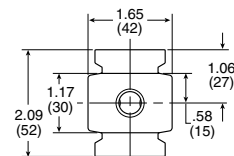


Port Block Connectors allow threaded port connections to Modular units and are available in various port sizes to match system requirements.

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

Modular Manifold Block

N12-02-0000

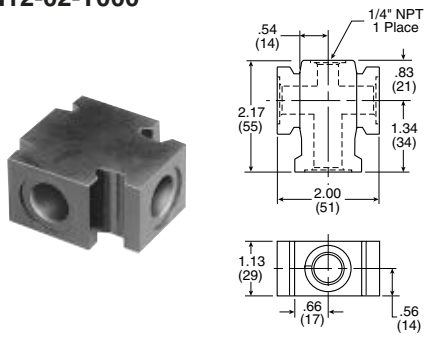


A Modular Manifold Block can be used between any two Modular units to give additional outlet ports. The 1/4" Manifold Block provides three additional outlets. Any standard pipe plug can be used to close off unused ports.

NOTE: Body Connectors are not supplied with Manifold Blocks.

3-Way Modular Block

N12-02-T000



NOTE: Body Connectors are not supplied with 3-Way Modular Blocks.

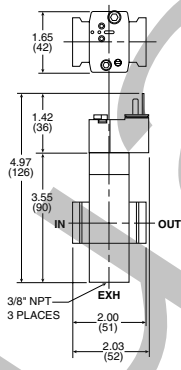
Allows for 90° installation for flexibility.

Allows for common port regulation.

Soft Start / Quick Dump Valves

Air Pilot E12-03-A000
24VDC E12-03-EC00
120VAC E12-03-ED00

- Combines Soft Start and Quick Dump Valve in same body
- Large flow capacities
- Inline or Modular mounting
- Air Pilot or Solenoid operation
- Soft Start flow easily adjusted
- 3/8" Port



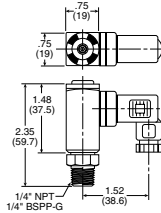
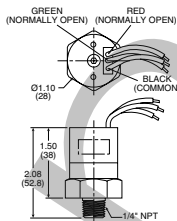
Wiring Options

- 3-Pin Connector With 6' Cord VRP-96-300
- 3-Pin Connector, Without Cord VRP-96-301
- 3-Pin Lighted Connector 24AC/DC VRP-96-302
- 3-Pin Lighted 120VAC VRP-96-303
- 3-Pin Lighted 24AC/DC With 6' Cord VRP-96-304
- 3-Pin Lighted 120AC/DC With 6' Cord VRP-96-305
- 3-Pin QD With 18" Wires VRP-96-306

Pressure Switches

P01908

P01909 / P01913



Features of P01908

- 7 amp rated snap action micro switch
- Flying leads electrical connection
- Field adjustable 10-110 PSIG
- Electrical: 7 amp, 12/24VDC
- Standard Electrical Circuit: Black – Common, Green – Normally Closed, Red – Normally Open

Features of P01909 / P01913

- Dial indicator for easy pressure setting
- 5 amp rated snap action micro switch
- Din 43650C connector
- Field adjustable 30-150 PSIG
- Electrical: 5 amp, 12/24VDC
- P01909 = 1/4" NPT, P01913 = 1/4" BSPP-G

The pressure switch monitors the air pressure in pneumatic systems. When pressure in the system either drops below or exceeds the set point pressure, an electrical output is given.

- Inline Mounting
- Heavy Duty Stainless Steel and Aluminum Components
- Compact size
- +/- 2% Repeatability
- Temperature Range: -40°F to 180°F (-40°C to 80°C)
- Maximum Inlet Pressure: 300 PSIG (20 bar)
- Single Pole / Double Throw Switch