Air Preparation Equipment

Bimba Air Preparation Equipment

Without clean, consistent air pressure, your pneumatic components are susceptible to breakdowns that can disrupt your entire manufacturing process. That's why we offer a full line of Air Preparation Filters, Regulators and Lubricators (FRLs) with optional accessories, including porting blocks, shut-off valves, gauges and more. Plus, with custom options and fast delivery, you get a flexible solution that fits your needs.

Compressed Air Filters

- Air louvers direct air in a whirling pattern for superior air filtration and liquid separation
- Plastic or bronze filter media available from 5 to 100 micron rating
- Optional automatic drains available to eject collected liquid when the collector bowl is full
- Product lines include oil (coalescing) and vapor removal filter units used for oil-free and more stringent air quality requirements

Regulators

- Large size low torque knob to precisely control a diaphragm to respond to flow demand and pressure changes efficiently
- Units are panel mountable with a variety of pressure ranges available

Lubricators

- Uniquely atomizes oil to enable it to travel greater distances than drip type lubricators for your pneumatic systems and tools
- A fine adjustable knob with visual indication gives a constant oil/air output ratio

Combination F/R Units

- Combination F/R units provide the same features of our standard air filters and regulators in one single unit to save space and installation time

- Optional accessories include slow start/vent valves, shut-off valves, porting blocks and pressure gauges
- All units and accessories stocked for same-day shipment
- All FRL components can be assembled together in any combination at the factory to ship in two days

Compressed Air Filter

How to Order

Model number below is: Miniature Series, General Purpose Filter, 1/8 NPT Ports, Automatic Drain, 5 Micron Plastic Element, Metal Bowl

AP10 - FG 1 A 1 D

SERIES	FILTER TYPE	PORT SIZE	DRAIN TYPE	FILTER ELEMENT	BOWL TYPE
AP10	FG - General Purpose	1 - 1/8 NPT 2 - 1/4 NPT	A - Auto Drain M - Manual Drain	1 - 5µ Plastic 2 - 25µ Plastic 4 - 100µ Plastic 6 - 5µ Bronze 7 - 25µ Bronze 9 - 100µ Bronze	D - Metal Bowl P - Polycarbonate Bowl

List Prices

Miniature Series (10), General Purpose Filters

Base Model	Description	List Price
AP10-FG_M_P	General Purpose Filter, Manual Drain, Polycarbonate Bowl with Bowl Guard	$ 21.00
Add for options		
A	Automatic Drain	4.75
D	Metal Bowl	3.15
Most popular models, typically ship from stock		
AP10-FG_M1P	Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element	21.00
AP10-FG_A1P	Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element	25.75
AP10-FG_M1D	Manual Drain, Metal Bowl, 5µ Plastic Element	24.15
AP10-FG_A1D	Automatic Drain, Metal Bowl, 5µ Plastic Element	28.90

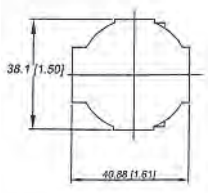
Options that do not affect price: Port Size, Filter Element

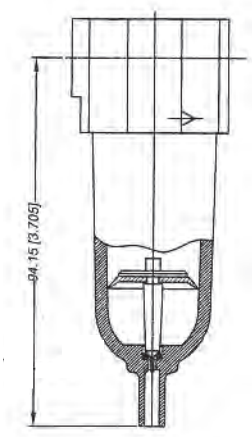
Compressed Air Filter

Specifications and Dimensions

Parameters	Specifications	
Pipe Threads	1/8, 1/4 NPT	
Filter Element Size	5, 25, 100 micron	
Element Material	Plastic (Polypropylene) Sintered Bronze	
Body Material	Aluminum Alloy Die Cast	
Bowl Material	Transparent Polycarbonate or Aluminum Alloy Die Cast	
Maximum Inlet Pressure	PC Bowl Metal Bowl	150 psig (10.5 kg/cm^2) 250 psig (17.5 kg/cm^2)
Maximum Operating Temperature (ambient)	PC Bowl Metal Bowl	125°F (50°C) 175°F (80°C)
Standard Nominal Flow Rate at 85 psig (6 bar) supply pressure and 14.5 psig (1 bar) pressure drop	1/8 NPT 1/4 NPT	18 scfm (8.5 dm^3/sec) 21 scfm (10 dm^3/sec)
Drain Types Available	Manual Automatic	 (operates only when flow change occurs)

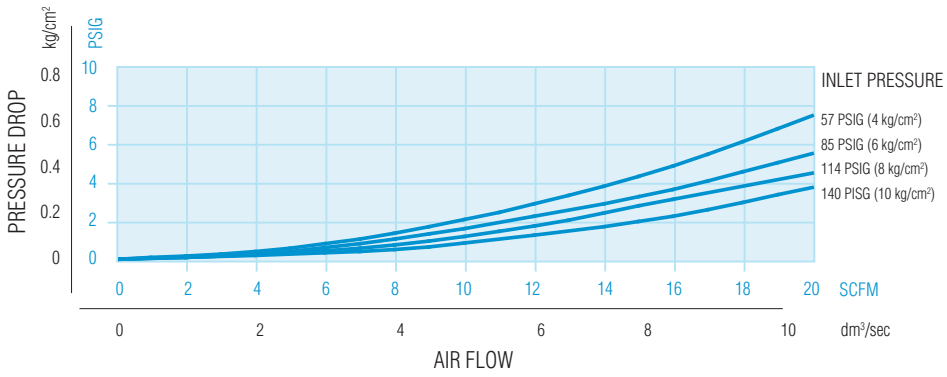
Dimensions in mm [inches]





Automatic Drain shown

AP10-FG
1/4 NPT
Inlet pressure as indicated



Oil Removal Filter

How to Order

Model number below is: Miniature Series, Oil Removal Filter, 1/8 NPT Ports, Automatic Drain, Metal Bowl

AP10 - FO 1 A 0 D

SERIES	PRODUCT	PORT SIZE	DRAIN TYPE	FILTER ELEMENT	BOWL TYPE
AP10	FO - Oil Removal Filter	1 - 1/8 NPT 2 - 1/4 NPT	A - Auto Drain M - Manual Drain	0 - Oil Removal	D - Metal Bowl P - Polycarbonate Bowl

List Prices

Miniature Series (10), Coalescing Filters

Base Model	Description	List Price
AP10-FO_M0P	Coalescing Filter, Polycarbonate Bowl with Bowl Guard, Manual Drain	$ 47.25
Add for options		
A	Automatic Drain	4.75
D	Metal Bowl	3.15
Most popular models, typically ship from stock		
AP10-FO_M0P	Coalescing Filter, Polycarbonate Bowl with Bowl Guard, Manual Drain	47.25
AP10-FO_A0P	Coalescing Filter, Polycarbonate Bowl with Bowl Guard, Automatic Drain	52.00
AP10-FO_M0D	Coalescing Filter, Metal Bowl, Manual Drain	50.40
AP10-FO_A0D	Coalescing Filter, Metal Bowl, Automatic Drain	55.15

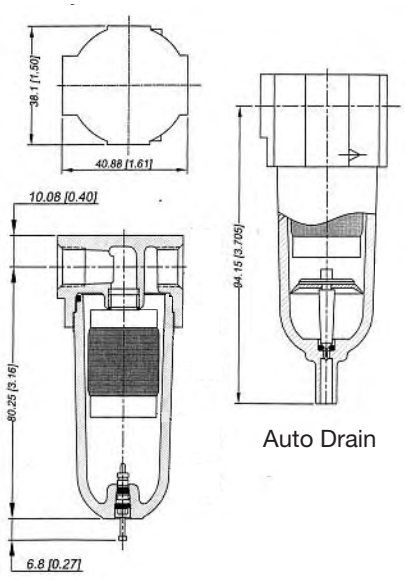
Options that do not affect price: Port Size

Oil Removal Filter

Specifications and Dimensions

Parameters	Specifications
Pipe Threads	1/8, 1/4 NPT
Element Material	Composite Element
Body Material	Aluminum Alloy Die Cast
Bowl Material	Transparent Polycarbonate or Aluminum Alloy Die Cast
Maximum Inlet Pressure	with PC Bowl 150 psig (10.5 kg/cm^2) with Metal Bowl 250 psig (17.5 kg/cm^2)
Operating Temperature Range (ambient)	with PC Bowl 20°F to 120°F (-6°C to 50°C) with Metal Bowl 20°F to 175°F (-6°C to 80°C)
Recommended Flow at an inlet pressure of 100 psig (7 kg/cm^2)	3 scfm (1.4 dm^3/sec)
Particle Removal	Up to 0.01 micron
Maximum Oil Removal Content	Up to 0.01 ppm
Drain Types Available	Manual Automatic (operates only on flow changes)
Note: Recommended	Use Pre-Filter with 5 micron Element

Dimensions in mm [inches]



Auto Drain

Manual Drain

Pressure Regulator

How to Order

Model number below is: Miniature Series, Pressure Regulator, 1/8 NPT Ports, No Gauge, 5-50 psi Pressure Range Adjustment

AP10 - R 1 N E

SERIES	PRODUCT	PORT SIZE	PRESSURE GAUGE	ADJUSTMENT RANGE
AP10	R - Regulator, Relieving Type	1 - 1/8 NPT 2 - 1/4 NPT	G - With Gauge N - No Gauge	E - 5 to 50 psi K - 10 to 100 psi

List Prices

Miniature Series (10), Air Pressure Regulators

Base Model	Description	List Price
AP10-R___	Air Pressure Regulator	$ 17.85
Add for options		
G	Pressure Gauge	8.95
Most popular models, typically ship from stock		
AP10-R_N_	Regulator, No Gauge	17.85
AP10-R_G_	Regulator, with Gauge	26.80

Options that do not affect price: Port Size, Pressure Range

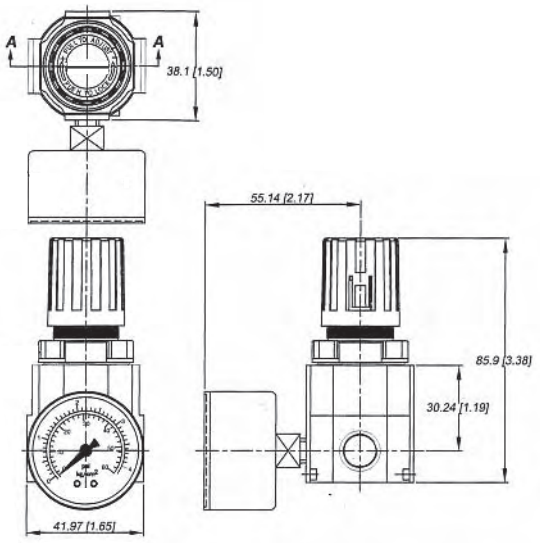
Pressure Regulator

Specifications and Dimensions

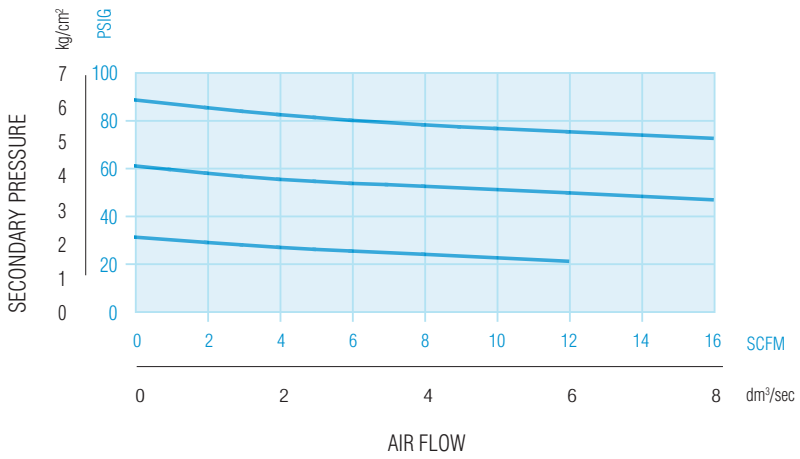
Parameters	Specifications
Pipe Threads	1/8, 1/4 NPT
Regulator Type	Relieving Diaphragm
Body Material	Aluminum Alloy Die Cast
Pressure Adjustment	Non-rising Plastic Knob
Maximum Inlet Pressure	(250 psig) 17.5 kg/cm^2
Maximum Operating Temperature (ambient)	175°F (80°C)
Regulated Secondary Outlet Pressure Ranges Available*	5 to 50 psig 10 to 100 psig
Gauge Size	40 mm OD
Gauge Port Size	1/8 NPT
Standard Nominal Flow Rate at 145 psig (10 bar) supply pressure, 85 psig (6 bar) secondary pressure, 14.5 psig (1 bar) drop	1/8 NPT 14 scfm (6.5 dm^3/sec) 1/4 NPT 16 scfm (7.5 dm^3/sec)
Panel Mounting	Nut Included Standard NOTE: 1.28 in. (32.4 mm) diameter hole required for panel mounting

**Note: Regulated pressures can be adjusted to pressures greater than or less than the pressure ranges specified. For best results, pressure should always be set by adjusting the pressure up to the desired setting. Do not use these units to control pressures outside of the specified ranges.*

Dimensions in mm [inches]



AP10-R
1/4 NPT
Inlet pressure = 140 PSIG (10kg/cm^2)



Air Line Lubricator

How to Order

Model number below is: Miniature Series, Air Line Mist Lubricator, 1/8 NPT Ports, Metal Bowl

AP10 - L 1 D

SERIES	PRODUCT	PORT SIZE	BOWL TYPE
AP10	L - Lubricator	1 - 1/8 NPT 2 - 1/4 NPT	D - Metal Bowl P - Polycarbonate Bowl

List Prices

Miniature Series (10), Air Line Lubricators

Base Model	Description	List Price
AP10-L_P	Air Line Lubricator, Polycarbonate Bowl with Bowl Guard	$ 31.50
Add for options		
D	Metal Bowl	3.15
Most popular models, typically ship from stock		
AP10-L_P	Lubricator, Polycarbonate Bowl with Bowl Guard	31.50
AP10-L_D	Lubricator, Metal Bowl	34.65

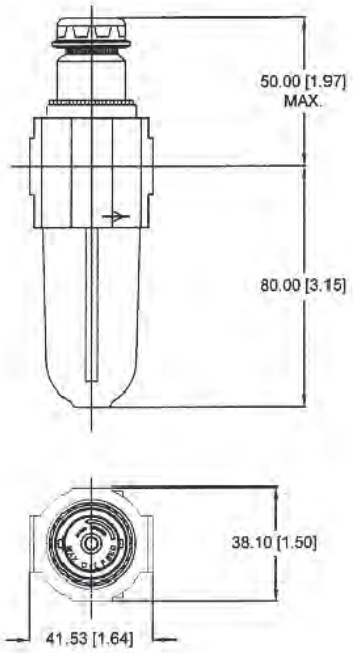
Options that do not affect price: Port Size

Air Line Lubricator

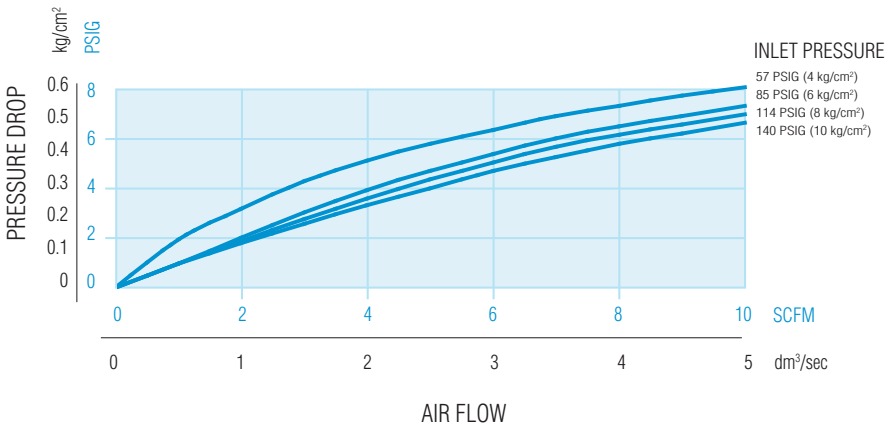
Specifications and Dimensions

Parameters	Specifications	
Pipe Threads	1/8, 1/4 NPT	
Lubricator Type	Misting Type	
Body Material	Aluminum Alloy Die Cast	
Bowl Material	Transparent Polycarbonate or Aluminum Alloy Die Cast	
Bowl Capacity	17 cc	
Maximum Inlet Pressure	PC Bowl Metal Bowl	150 psig (10.5 kg/cm²) 250 psig (17.5 kg/cm²)
Maximum Operating Temperature (ambient)	PC Bowl Metal Bowl	125°F (50°C) 175°F (80°C)
Standard Nominal Flow Rate at 85 psig (6 bar) supply and 14.5 psig (1 bar) drop	16 scfm (7.5 dm³/sec)	
Minimum Flow Required to Start at 85 psig (6 bar) inlet	0.5 scfm (0.24 dm³/sec)	

Dimensions in mm [inches]



AP10-L
1/4 NPT
Inlet pressure as indicated



Filter/Regulator Combination Unit

How to Order

Model number below is: Miniature Series, Filter/Regulator Combination Unit, 1/8 NPT Ports, Automatic Drain, 100 Micron Plastic Filter Element, Metal Bowl, No Gauge, 5-50 psi Pressure Range Adjustment

AP10 - C 1 A 4 D N E

SERIES	PRODUCT	PORT SIZE	DRAIN TYPE	FILTER ELEMENT	BOWL TYPE	PRESSURE GAUGE	ADJUSTMENT RANGE
AP10	C - Combination, Stacked Filter/ Regulator	1 - 1/8 NPT 2 - 1/4 NPT	A - Auto Drain M - Manual Drain	1 - 5µ Plastic 2 - 25µ Plastic 4 - 100µ Plastic 6 - 5µ Bronze 7 - 25µ Bronze 9 - 100µ Bronze	D - Metal Bowl P - Polycarbonate Bowl	G - With Gauge N - No Gauge	E - 5 to 50 psi K - 10 to 100 psi

List Prices

Miniature Series (10), Combinations F/R Unit

Base Model	Description	List Price
AP10-C_M1PN_	F/R, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	$ 36.75
Add for options		
A	Automatic Drain	4.75
D	Metal Bowl	3.15
G	Pressure Gauge	8.95
Most popular models, typically ship from stock		
AP10-C_M1PN_	F/R, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	36.75
AP10-C_M1DN_	F/R, Manual Drain, Metal Bowl, 5µ Plastic Element, No Gauge	39.90
AP10-C_A1PN_	F/R, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	41.50
AP10-C_A1DN_	F/R, Automatic Drain, Metal Bowl, 5µ Plastic Element, No Gauge	44.65
AP10-C_M1PG_	F/R, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	45.70
AP10-C_M1DG_	F/R, Manual Drain, Metal Bowl, 5µ Plastic Element, Gauge	48.85
AP10-C_A1PG_	F/R, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	50.45
AP10-C_A1DG_	F/R, Automatic Drain, Metal Bowl, 5µ Plastic Element, Gauge	53.60

Options that do not affect price: Port Size, Pressure Range, Filter Element

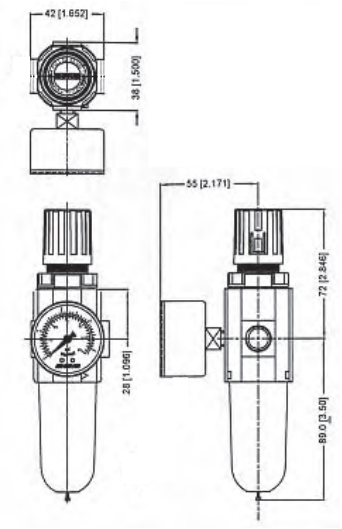
Filter/Regulator Combination Unit

Specifications and Dimensions

Parameters	Specifications
Pipe Threads	1/8, 1/4 NPT
Body Material	Aluminum Alloy Die Cast
Filter Element Size	5, 25, 100 micron
Filter Element Material	Plastic (Polypropylene) Sintered Bronze
Bowl Material	Transparent Polycarbonate or Aluminum Alloy Die Cast
Maximum Inlet Pressure	PC Bowl 150 psig (10.5 kg/cm^2) Metal Bowl 250 psig (17.5 kg/cm^2)
Maximum Operating Temperature (ambient)	PC Bowl 125°F (50°C) Metal Bowl 175°F (80°C)
Drain Types Available	Manual Automatic (operates only on flow change)
Regulator Type	Relieving
Pressure Adjustment	Non-rising Plastic Knob
Regulated Secondary Outlet Pressure Ranges Available*	5 to 50 psig 10 to 100 psig
Gauge Size	40 mm OD
Gauge Port Size	1/8 NPT
Panel Mounting	Nut Included Standard NOTE: 1.28 in. (32.4 mm) diameter hole required for panel mounting

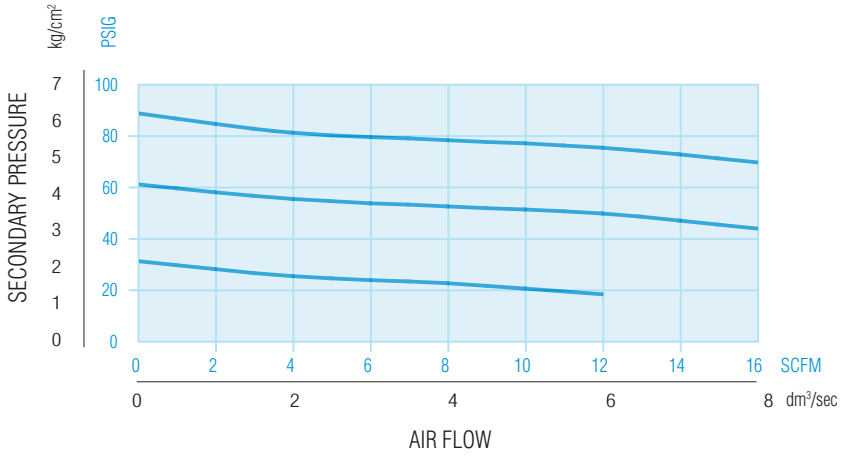
**Note: Regulated pressures can be adjusted to pressures greater than or less than the pressure ranges specified. For best results, pressure should always be set by adjusting the pressure up to the desired setting. Do not use these units to control pressures outside of the specified ranges.*

Dimensions in mm [inches]



Manual Drain shown

AP10-C
1/4 NPT
Inlet pressure = 140 PSIG (10kg/cm^2)



Assembled Combinations

How to Order

Model number below is: Miniature Series, F/R + Lubricator Assembled Set, 1/8 NPT Ports, Automatic Drain, 5 Micron Plastic Element, Polycarbonate Bowl, No Gauge, 10-100 psi Pressure Range Adjustment

AP10 - CL 1 A 1 P N K

SERIES	PORT SIZE	DRAIN TYPE	BOWL TYPE	PRESSURE GAUGE
AP10	1 - 1/8 NPT 2 - 1/4 NPT	A - Auto Drain M - Manual Drain	D - Metal Bowl P - Polycarbonate Bowl	G - With Gauge N - No Gauge

COMBO TYPE	FILTER ELEMENT	ADJUSTMENT RANGE
CL - F/R + Lubricator FGRL - F+R+L	1 - 5µ Plastic 2 - 25µ Plastic 4 - 100µ Plastic 6 - 5µ Bronze 7 - 25µ Bronze 9 - 100µ Bronze	E - 5 to 50 psi K - 10 to 100 psi

List Prices

Miniature Series (10), Assembled Combinations

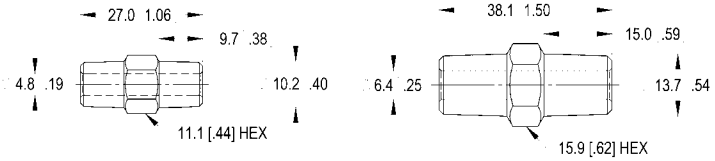
Base Model	Description	List Price
AP10-CL_M1PN_	F/R + L Assembled, Manual, Polycarbonate Bowl with Bowl Guard, 5µ Plastic, No Gauge	$ 74.55
AP10-FGRL_M1PN_	F + R + L Assembled, Manual, Polycarbonate Bowl with Bowl Guard, 5µ Plastic, No Gauge	82.95
Add for options		
A	Automatic Drain	4.75
D	Metal Bowl	6.30
G	Pressure Gauge	8.95
Most popular models		
AP10-CL_M1PN_	F/R+L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	74.55
AP10-CL_M1DN_	F/R+L, Manual Drain, Metal Bowl, 5µ Plastic Element, No Gauge	80.85
AP10-CL_A1PN_	F/R+L, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	79.30
AP10-CL_A1DN_	F/R+L, Automatic Drain, Metal Bowl, 5µ Plastic Element, No Gauge	85.60
AP10-CL_M1PG_	F/R+L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	83.50
AP10-CL_M1DG_	F/R+L, Manual Drain, Metal Bowl, 5µ Plastic Element, Gauge	89.80
AP10-CL_A1PG_	F/R+L, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	88.25
AP10-CL_A1DG_	F/R+L, Automatic Drain, Metal Bowl, 5µ Plastic Element, Gauge	94.55
AP10-FGRL_M1PN_	F+R+L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	82.95
AP10-FGRL_M1DN_	F+R+L, Manual Drain, Metal Bowl, 5µ Plastic Element, No Gauge	89.25
AP10-FGRL_A1PN_	F+R+L, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	87.70
AP10-FGRL_A1DN_	F+R+L, Automatic Drain, Metal Bowl, 5µ Plastic Element, No Gauge	94.00
AP10-FGRL_M1PG_	F+R+L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	91.90
AP10-FGRL_M1DG_	F+R+L, Manual Drain, Metal Bowl, 5µ Plastic Element, Gauge	98.20
AP10-FGRL_A1PG_	F+R+L, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	96.65
AP10-FGRL_A1DG_	F+R+L, Automatic Drain, Metal Bowl, 5µ Plastic Element, Gauge	102.95

Options that do not affect price: Port Size, Pressure Range, Filter Element

Accessories

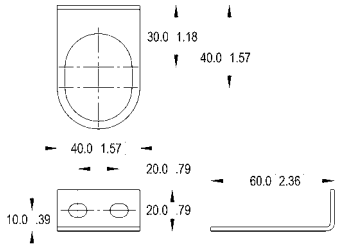
Connector Kit

Connector Kit	
CK10-1/8	$ 3.40
CK10-1/4	4.20



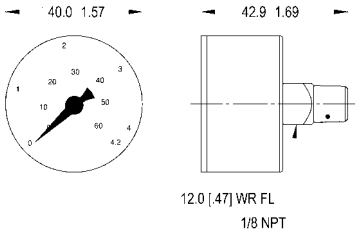
Regulator Bracket Mount

Regulator Bracket Mount	
PMB10	$ 2.90



Gauge

Pressure Gauge	
PG-2 (0-60 psi)	$ 8.85
PG-3 (0-150 psi)	8.85



Compressed Air Filter

How to Order

Model number below is: Compact Series, General Purpose Filter, 1/4 NPT Ports, Automatic Drain, 50 Micron Plastic Element, Metal Bowl with Sight Glass

AP20 - FG 2 A 3 D

SERIES	FILTER TYPE	PORT SIZE	DRAIN TYPE	FILTER ELEMENT	BOWL TYPE
AP20	FG - General Purpose	2 - 1/4 NPT 3 - 3/8 NPT 4 - 1/2 NPT	A - Auto Drain M - Manual Drain	1 - 5µ Plastic 2 - 25µ Plastic 3 - 50µ Plastic 6 - 5µ Bronze 7 - 25µ Bronze 8 - 50µ Bronze	D - Metal Bowl P - Polycarbonate with Bowl Guard

List Prices

Compact Series (20), General Purpose Filters

Base Model	Description	List Price
AP20-FG_M_P	General Purpose Filter, Manual Drain, Polycarbonate Bowl with Bowl Guide	$ 37.30
Add for options		
A	Automatic Drain	14.70
D	Metal Bowl with Sight Glass	10.50
Most popular models, typically ship from stock		
AP20-FG_M1P	Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element	37.30
AP20-FG_A1P	Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element	52.00
AP20-FG_M1D	Manual Drain, Metal Bowl with Sight Glass, 5µ Plastic Element	47.80
AP20-FG_A1D	Automatic Drain, Metal Bowl with Sight Glass, 5µ Plastic Element	62.50

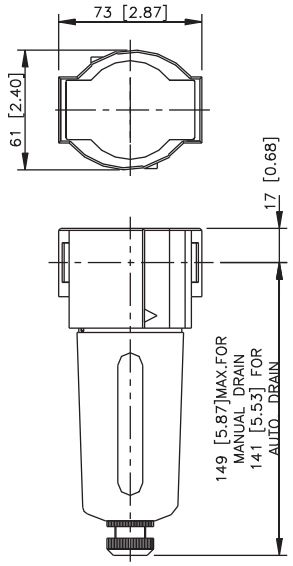
Options that do not affect price: Port Size, Filter Element

Compressed Air Filter

Specifications and Dimensions

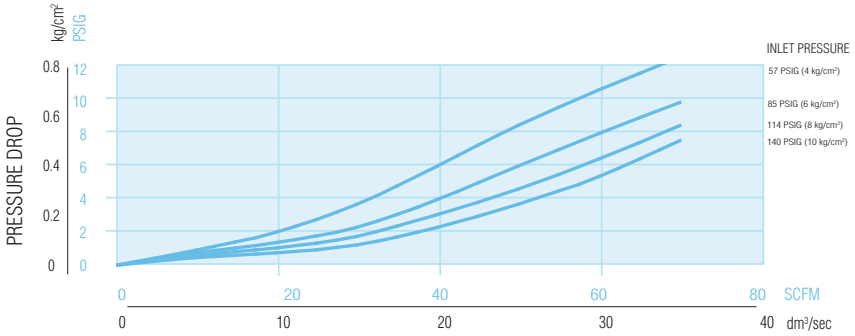
Parameters	Specifications	
Pipe Threads	1/4, 3/8, 1/2 NPT	
Filter Element Size	5, 25, 50 micron	
Element Material	Plastic (Polypropylene) Sintered Bronze	
Body Material	Aluminum Alloy Die Cast	
Bowl Material	Transparent Polycarbonate with Bowl Guard or Aluminum Alloy Metal with Sight Glass	
Maximum Inlet Pressure	PC Bowl Metal Bowl	150 psig (10.5 kg/cm²) 250 psig (17.5 kg/cm²)
Maximum Operating Temperature (ambient)	PC Bowl Metal Bowl	125°F (50°C) 175°F (80°C)
Standard Nominal Flow Rate at 85 psig (6 bar) supply pressure and 14.5 psig (1 bar) drop	1/4 NPT 3/8, 1/2 NPT	90 scfm (43 dm³/sec) 100 scfm (48 dm³/sec)
Drain Types Available	Manual Automatic	

Dimensions in mm [inches]



Manual Drain shown

AP20-FG
1/4 NPT
Inlet pressure as indicated



Oil Removal Filter

How to Order

Model number below is: Compact Series, Oil Removal Filter, 1/4 NPT Ports, Automatic Drain, Polycarbonate Bowl with Bowl Guard

AP20 - FO 2 A 0 P

SERIES	PRODUCT	PORT SIZE	DRAIN TYPE	FILTER ELEMENT	BOWL TYPE
AP20	FO - Oil Removal Filter	2 - 1/4 NPT 3 - 3/8 NPT 4 - 1/2 NPT	A - Auto Drain M - Manual Drain	0 - Oil Removal	D - Metal Bowl P - Polycarbonate with Bowl Guard

List Prices

Compact Series (20), Coalescing Filters

Base Model	Description	List Price
AP20-FO_M0P	Coalescing Filter, Polycarbonate Bowl with Bowl Guard, Manual Drain	$ 84.00
Add for options		
A	Automatic Drain	14.70
D	Metal Bowl	10.50
Most popular models, typically ship from stock		
AP20-FO_M0P	Coalescing Filter, Polycarbonate Bowl with Bowl Guard, Manual Drain	84.00
AP20-FO_A0P	Coalescing Filter, Polycarbonate Bowl with Bowl Guard, Automatic Drain	98.70
AP20-FO_M0D	Coalescing Filter, Metal Bowl, Manual Drain	94.50
AP20-FO_A0D	Coalescing Filter, Metal Bowl, Automatic Drain	109.20

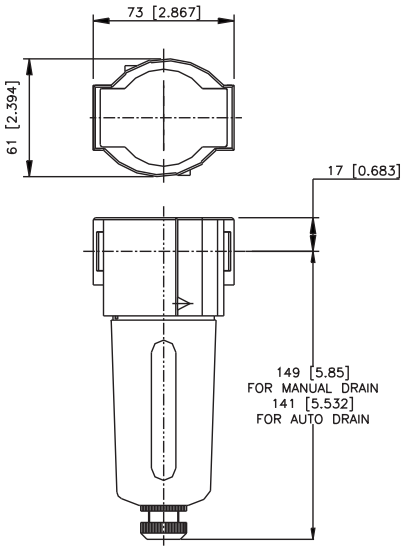
Options that do not affect price: Port Size

Oil Removal Filter

Specifications and Dimensions

Parameters	Specifications	
Pipe Threads	1/4, 3/8, 1/2 NPT	
Element Material	Borosilicate	
Body Material	Aluminum Alloy Die Cast	
Bowl Material	Polycarbonate with Bowl Guard Aluminum Alloy Metal with Sight Glass	
Maximum Inlet Pressure	PC Bowl Metal Bowl	150 psig (10.5 kg/cm^2) 250 psig (17.5 kg/cm^2)
Operating Temperature Range (ambient)	PC Bowl Metal Bowl	20°F to 120°F (-6°C to 50°C) 80°F to 175°F (-6°C to 80°C)
Recommended Flow (at an inlet pressure of 7 kg/cm^2)	8 scfm (3.8 dm^3/sec)	
Particle Removal	Up to 0.01 micron	
Maximum Oil Removal Content	Up to 0.01 ppm	
Drain Types Available	Manual Automatic	
Note: Recommended	Use Pre-Filter with 5 micron Element	

Dimensions in mm [inches]



Manual Drain shown

Vapor Removal Filter

How to Order

Model number below is: Compact Series, Vapor Removal Filter, 1/4 NPT Ports, Transparent Polycarbonate Bowl with Bowl Guard

AP20 - FV 2 E 0 T

SERIES	FILTER TYPE	PORT SIZE	DRAIN TYPE	FILTER ELEMENT	BOWL TYPE
AP20	FV - Vapor Removal	2 - 1/4 NPT 3 - 3/8 NPT 4 - 1/2 NPT	E - Closed Bottom	0 - Vapor Removal	T - Transparent

List Prices

Compact Series (20), Vapor Removal Filters

Base Model	Description	List Price
AP20-FV-E0T	Vapor Removal (.003 ppm), Closed Bottom Bowl	$ 78.75

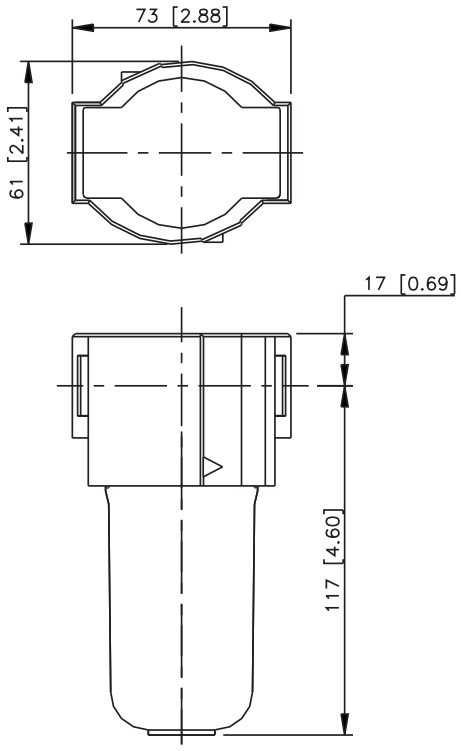
Options that do not affect price: Port Size

Oil Removal Filter

Specifications and Dimensions

Parameters	Specifications
Pipe Threads	1/4, 3/8, 1/2 NPT
Element Material	Activated Carbon
Body Material	Aluminum Alloy Die Cast
Bowl Material	Polycarbonate
Maximum Inlet Pressure	PC Bowl 150 psig (10.5 kg/cm^2)
Operating Temperature Range (ambient)	PC Bowl 20°F to 120°F (-6°C to 50°C)
Recommended Flow at an inlet pressure of 100 psig (7 kg/cm^2)	8 scfm (3.8 dm^3/sec)
Particle Removal	Up to 0.01 micron
Maximum Oil Removal Content	Up to 0.003 ppm
Note: Recommended	Use Pre-Filter with 5 micron Element

Dimensions in mm [inches]



Pressure Regulator

How to Order

Model number below is: Compact Series, Air Pressure Regulator, 1/4 NPT Ports, No Gauge, 5 to 55 psi Pressure Range Adjustment

AP20 - R 2 N F

SERIES	PRODUCT	PORT SIZE	PRESSURE GAUGE	ADJUSTMENT RANGE
AP20	R - Regulator	2 - 1/4 NPT 3 - 3/8 NPT 4 - 1/2 NPT	G - With Gauge N - No Gauge	F - 5 to 55 psi L - 12 to 125 psi M - 15 to 150 psi

List Prices

Compact Series (20), Air Pressure Regulators

Base Model	Description	List Price
AP20-R___	Air Pressure Regulator	$ 36.75
Add for options		
G	Pressure Gauge	8.95
Most popular models, typically ship from stock		
AP20-R_N_	Regulator, No gauge	36.75
AP20-R_G_	Regulator, with Gauge	45.70

Options that do not affect price: Port Size, Pressure Range

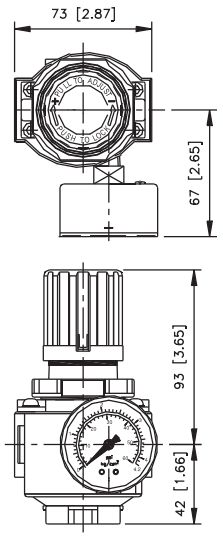
Pressure Regulator

Specifications and Dimensions

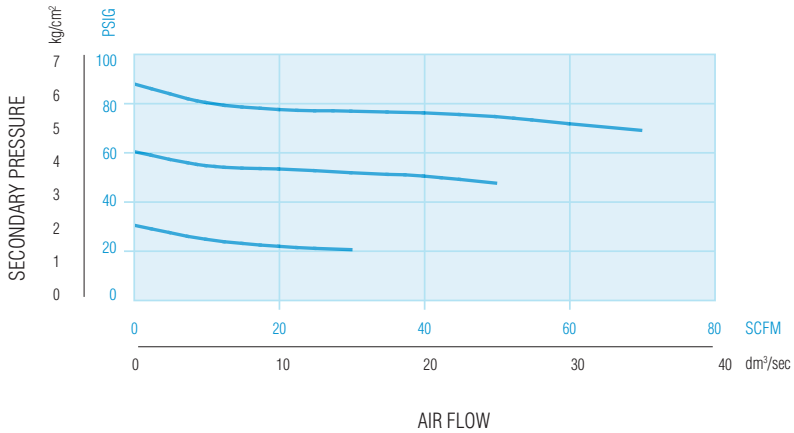
Parameters	Specifications
Pipe Threads	1/4, 3/8, 1/2 NPT
Regulator Type	Relieving Diaphragm
Body Material	Aluminum Alloy Die Cast
Pressure Adjustment	Non-rising Plastic Knob
Maximum Inlet Pressure	300 psig (21.0 kg/cm^2)
Maximum Operating Temperature (ambient)	175°F (80°C)
Regulated Secondary Outlet Pressure Ranges Available*	5 to 55 psig 12 to 125 psig 15 to 150 psig
Gauge Size	40 mm OD
Gauge Port Size	1/8 NPT
Standard Nominal Flow Rate at 145 psig (10 bar) supply pressure, 85 psig (6 bar) secondary pressure, 14.5 psig (1 bar) drop	1/4 NPT 49 scfm (23 dm^3/sec) 3/8, 1/2 NPT 84 scfm (40 dm^3/sec)
Panel Mounting	Nut Included Standard NOTE: 1.89 in. (48.0 mm) diameter hole required for panel mounting

**Note: Regulated pressures can be adjusted to pressures greater than or less than the pressure ranges specified. For best results, pressure should always be set by adjusting the pressure up to the desired setting. Do not use these units to control pressures outside of the specified ranges.*

Dimensions in mm [inches]



AP20-R
1/4 NPT
Inlet pressure = 140 PSIG (10kg/cm^2)



Air Line Lubricator

How to Order

Model number below is: Compact Series, Air Line Mist Lubricator, 1/4 NPT Ports, Metal Bowl

AP20 - L 2 D

SERIES	PRODUCT	PORT SIZE	BOWL TYPE
AP20	L - Lubricator	2 - 1/4 NPT 3 - 3/8 NPT 4 - 1/2 NPT	D - Metal Bowl P - Polycarbonate with Bowl Guard

List Prices

Compact Series (20), Air Line Lubricators

Base Model	Description	List Price
AP20-L_P	Air Line Lubricator, Polycarbonate Bowl with Bowl Guard	$ 47.25
Add for options		
D	Metal Bowl with Sight Glass	10.50
Most popular models, typically ship from stock		
AP20-L_P	Lubricator, Polycarbonate Bowl with Bowl Guard	47.25
AP20-L_D	Lubricator, Metal Bowl with Sight Glass	57.75

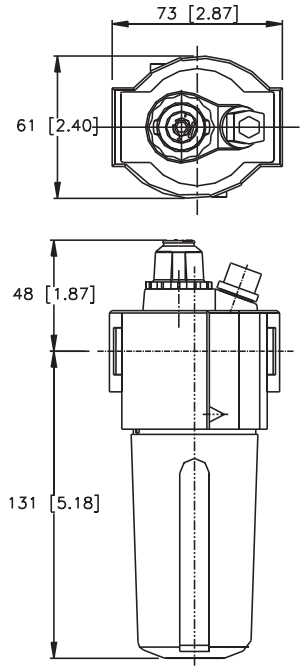
Options that do not affect price: Port Size

Air Line Lubricator

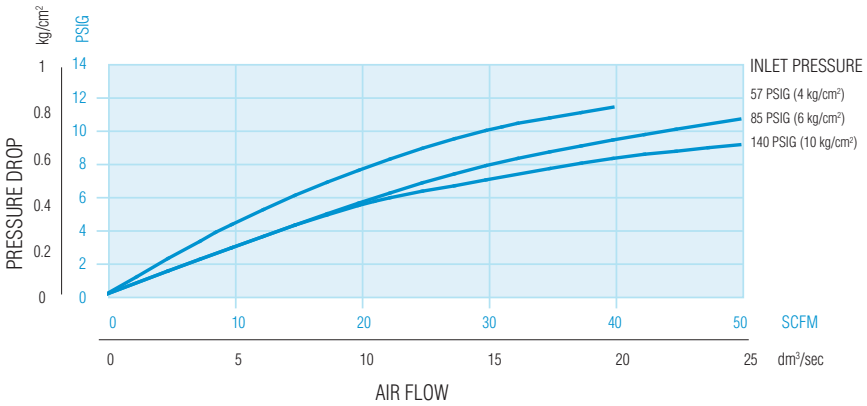
Specifications and Dimensions

Parameters	Specifications	
Pipe Threads	1/4, 3/8, 1/2 NPT	
Lubricator Type	Misting Type	
Body Material	Aluminum Alloy Die Cast	
Bowl Material	Transparent Polycarbonate with Bowl Guard or Aluminum Alloy Metal with Sight Glass	
Bowl Capacity	160 cc	
Maximum Inlet Pressure	PC Bowl Metal Bowl	150 psig (10.5 kg/cm²) 250 psig (17.5 kg/cm²)
Maximum Operating Temperature (ambient)	PC Bowl Metal Bowl	125°F (50°C) 175°F (80°C)
Standard Nominal Flow Rate at 85 psig (6 bar) supply and 14.5 psig (1 bar) pressure drop	1/4 NPT 3/8, 1/2 NPT	37 scfm (18 dm³/sec) 74 scfm (35 dm³/sec)
Minimum Flow Required to Start (at 6 bar inlet)	1/4 NPT 3/8, 1/2 NPT	2.5 scfm (1.2 dm³/sec) 4.0 scfm (1.9 dm³/sec)

Dimensions in mm [inches]



AP20-L
1/4 NPT
Inlet pressure as indicated



Filter/Regulator Combination Unit

How to Order

Model number below is: Compact Series, F/R Combination Unit, 1/4 NPT Ports, Automatic Drain, 50 Micron Plastic Filter Element, Metal Bowl, No Gauge, 5 to 55 psi Pressure Range Adjustment

AP20 - C 2 A 3 D N F

SERIES	PORT SIZE	FILTER ELEMENT	PRESSURE GAUGE
AP20	2 - 1/4 NPT 3 - 3/8 NPT 4 - 1/2 NPT	1 - 5µ Plastic 2 - 25µ Plastic 3 - 50µ Plastic 6 - 5µ Bronze 7 - 25µ Bronze 8 - 50µ Bronze	G - With Gauge N - No Gauge

PRODUCT	DRAIN TYPE	BOWL TYPE	ADJUSTMENT RANGE
C - Combination, Stacked Filter/ Regulator	A - Auto Drain M - Manual Drain	D - Metal Bowl P - Polycarbonate with Bowl Guard	F - 5 to 55 psi L - 12 to 125 psi M - 15 to 150 psi

List Prices

Compact Series (20), Combinations F/R Unit

Base Model	Description	List Price
AP20-C_M1PN_	F/R, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	$ 64.00
Add for options		
A	Automatic Drain	14.70
D	Metal Bowl with Sight Glass	10.50
G	Pressure Gauge	8.95
Most popular models, typically ship from stock		
AP20-C_M1PN_	F/R, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	64.05
AP20-C_M1DN_	F/R, Manual Drain, Metal Bowl, 5µ Plastic Element, No Gauge	74.55
AP20-C_A1PN_	F/R, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	78.75
AP20-C_A1DN_	F/R, Automatic Drain, Metal Bowl, 5µ Plastic Element, No Gauge	89.25
AP20-C_M1PG_	F/R, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	73.00
AP20-C_M1DG_	F/R, Manual Drain, Metal Bowl, 5µ Plastic Element, Gauge	83.50
AP20-C_A1PG_	F/R, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	87.70
AP20-C_A1DG_	F/R, Automatic Drain, Metal Bowl, 5µ Plastic Element, Gauge	98.20

Options that do not affect price: Port Size, Pressure Range, Filter Element

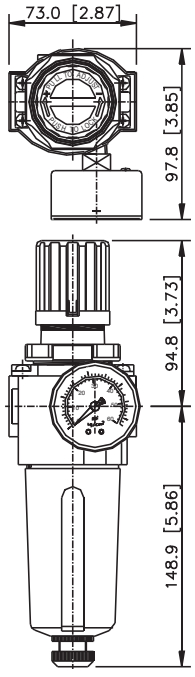
Filter/Regulator Combination Unit

Specifications and Dimensions

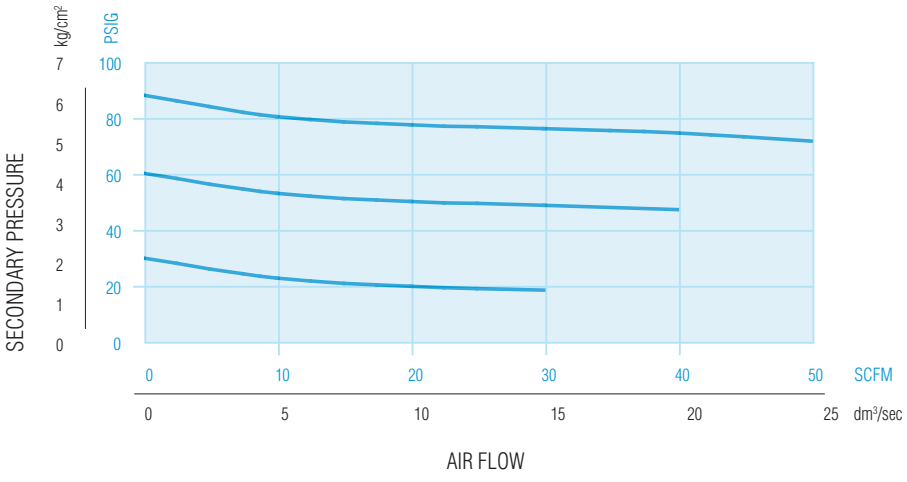
Parameters	Specifications	
Pipe Threads	1/4, 3/8, 1/2 NPT	
Body Material	Aluminum Alloy Die Cast	
Filter Element Size	5, 25, 50 micron	
Filter Element Material	Plastic (Polypropylene) Sintered Bronze	
Filter Bowl Material	Transparent Polycarbonate with Bowl Guard or Aluminum Alloy Metal with Sight Glass	
Maximum Inlet Pressure	PC Bowl Metal Bowl	150 psig (10.5 kg/cm^2) 250 psig (17.5 kg/cm^2)
Maximum Operating Temperature (ambient)	PC Bowl Metal Bowl	125°F (50°C) 175°F (80°C)
Standard Nominal Flow Rate (at 10 bar supply pressure and 1 bar in sec pressure of 6 bar)	1/4 NPT 3/8, 1/2 NPT	70 scfm (33 dm^3/sec) 73 scfm (35 dm^3/sec)
Drain Types Available	Manual Automatic	
Regulator Type	Relieving	
Pressure Adjustment	Non-rising Plastic Knob	
Regulated Secondary Outlet Pressure*	5 to 55 psig 12 to 125 psig 15 to 150 psig	
Gauge Size	40 mm OD	
Gauge Port Size	1/8 NPT	
Panel Mounting	Nut Included Standard NOTE: 1.89 in. (48.0 mm) diameter hole required for panel mounting	

**Note: Regulated pressures can be adjusted to pressures greater than or less than the pressure ranges specified. For best results, pressure should always be set by adjusting the pressure up to the desired setting. Do not use these units to control pressures outside of the specified ranges.*

Dimensions in mm (inches)



AP20-C
1/4 NPT
Inlet pressure = 140 PSIG (10kg/cm^2)



Assembled Combinations

How to Order

Model number below is: Compact Series, F/R + Lubricator Assembled Set, 1/4 NPT Ports, Manual Drain, 5 Micron Plastic Filter Element, Polycarbonate Bowl with Bowl Guard, No Pressure Gauge, 5 to 55 psi Pressure Range Adjustment, No Mounting Bracket

AP20 - CL 2 M 1 P N F N

SERIES	PORT SIZE	FILTER ELEMENT	PRESSURE GAUGE	MOUNTING BRACKET
AP20	2 - 1/4 NPT 3 - 3/8 NPT 4 - 1/2 NPT	1 - 5µ Plastic 2 - 25µ Plastic 3 - 50µ Plastic 6 - 5µ Bronze 7 - 25µ Bronze 8 - 50µ Bronze	G - With Gauge N - No Gauge	B - Include Bracket N - No Bracket

COMBO TYPE	DRAIN TYPE	BOWL TYPE	ADJUSTMENT RANGE
CL - F/R + Lubricator FGRL - F+R+L	A - Auto Drain M - Manual Drain	D - Metal Bowl P - Polycarbonate with Bowl Guard	F - 5 to 55 psi L - 12 to 125 psi M - 15 to 150 psi

List Prices

Compact Series (20), Assembled Combinations

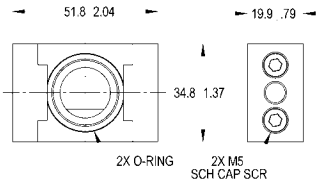
Base Model	Description	List Price
AP20-CL_M1PN__	F/R + L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	$121.80
AP20-FGRL_M1PN__	F+R + L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	142.30
Add for options		
A	Automatic Drain	14.70
D	Metal Bowl	21.00
G	Pressure Gauge	8.95
B	Mounting Bracket - CL Mounting Bracket - FGRL	6.30 12.60
Most popular models		
AP20-CL_M1PN_N	F/R+L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	121.80
AP20-CL_M1DN_N	F/R+L, Manual Drain, Metal Bowl, 5µ Plastic Element, No Gauge	142.80
AP20-CL_A1PN_N	F/R+L, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	136.50
AP20-CL_A1DN_N	F/R+L, Automatic Drain, Metal Bowl, 5µ Plastic Element, No Gauge	157.50
AP20-CL_M1PG_N	F/R+L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	130.75
AP20-CL_M1DG_N	F/R+L, Manual Drain, Metal Bowl, 5µ Plastic Element, Gauge	151.75
AP20-CL_A1PG_N	F/R+L, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	145.45
AP20-CL_A1DG_N	F/R+L, Automatic Drain, Metal Bowl, 5µ Plastic Element, Gauge	166.45
AP20-FGRL_M1PN_N	F+R+L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	142.30
AP20-FGRL_M1DN_N	F+R+L, Manual Drain, Metal Bowl, 5µ Plastic Element, No Gauge	163.30
AP20-FGRL_A1PN_N	F+R+L, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	157.00
AP20-FGRL_A1DN_N	F+R+L, Automatic Drain, Metal Bowl, 5µ Plastic Element, No Gauge	178.00
AP20-FGRL_M1PG_N	F+R+L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	151.25
AP20-FGRL_M1DG_N	F+R+L, Manual Drain, Metal Bowl, 5µ Plastic Element, Gauge	172.25
AP20-FGRL_A1PG_N	F+R+L, Automatic Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, Gauge	165.95
AP20-FGRL_A1DG_N	F+R+L, Automatic Drain, Metal Bowl, 5µ Plastic Element, Gauge	186.95

Options that do not affect price: Port Size, Pressure Range, Filter Element

Accessories

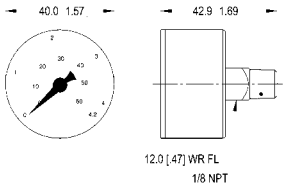
Connector Kit

Connector Kit	
CK20	$ 8.35



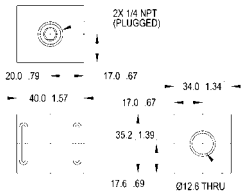
Gauge

Pressure Gauge	
PG-2 (0-60 psi)	$ 8.85
PG-3 (0-150 psi)	8.85



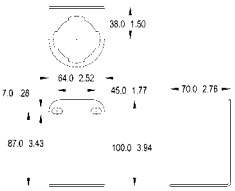
Porting Block

Porting Block	
PB20-1/4	$15.60



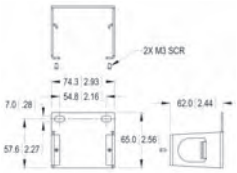
Regulator Bracket Mount

Regulator Bracket Mount	
PMB20	$ 7.80



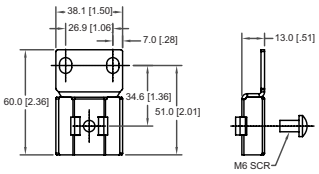
Component Bracket Mount

Component Bracket Mount	
MKS20	$ 7.80



Connector Kit Bracket Mount

Connector Kit Bracket Mount	
MKC20	$ 7.80



(Shown attached to Connector Kit)

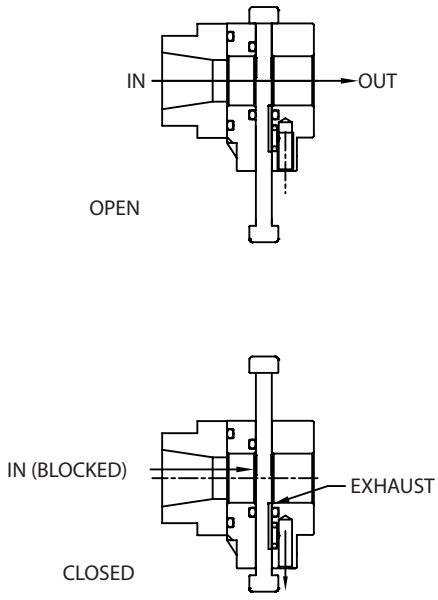
Accessories

Shut-off, Exhaust Valve

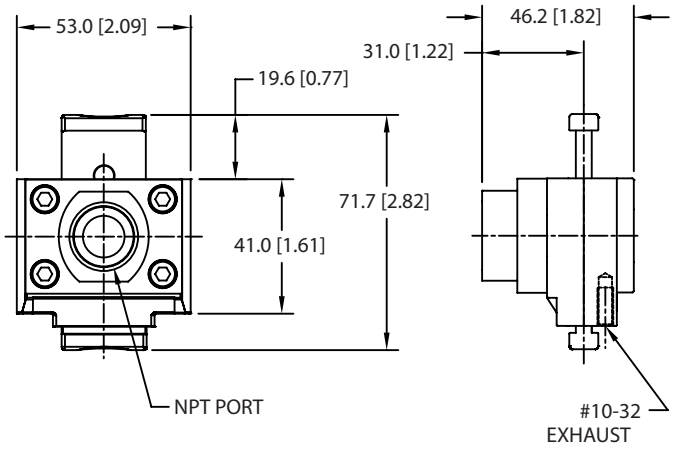
- Designed for modular installation in Compact (20) Series using CK20 Connector Kit
- Valve is 2-way, manually-operated, slide-type
- In closed position, air inlet is blocked, and downstream air is exhausted
- Exhaust port is threaded (#10-32), so exhaust can be remote
- Valve may be locked in closed position with use of external padlock

Model Number	Description	List Price
AP20-SLV4	Shut-off, Exhaust, Lockout Valve, 1/2 NPT	$ 22.05
AP20-SLV3	Shut-off, Exhaust, Lockout Valve, 3/8 NPT	22.05
AP20-SLV2	Shut-off, Exhaust, Lockout Valve, 1/4 NPT	22.05

Operation



Dimensions



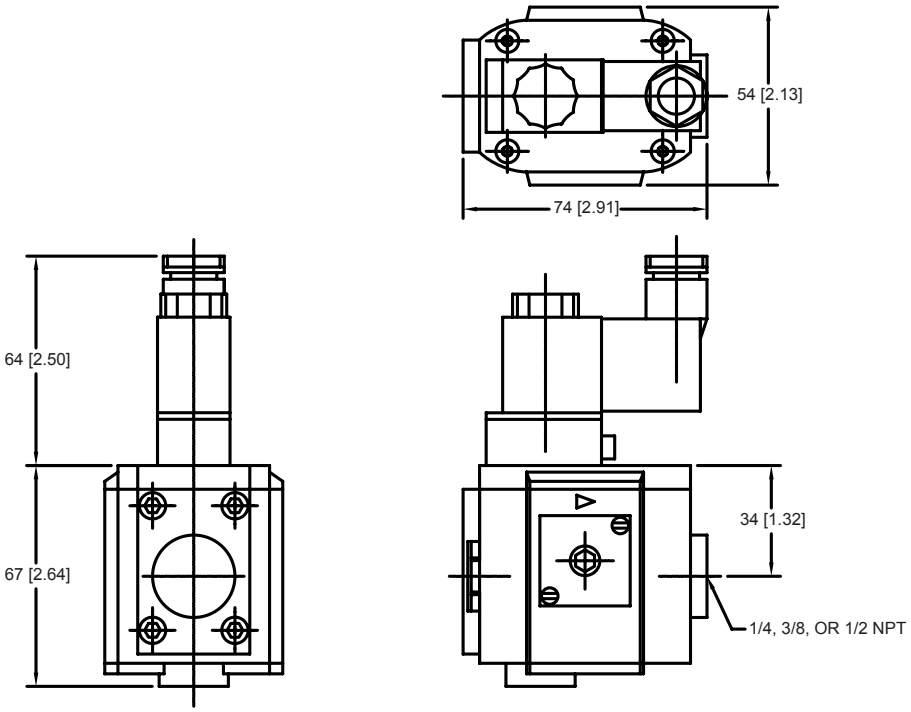
Accessories

Soft Start/Quick-Vent Valve

- The Soft Start/Quick-Vent Valve is a 3-port, 2-position, normally closed device
- It can be installed in-line with Bimba's Compact Series (20) Air Preparation Equipment using Connector Kit CK20
- This unit controls the increase of downstream pressure upon startup, slowly bringing the system up to full line pressure
- When the pilot signal is removed, the air inlet is blocked and downstream pressure is exhausted
- Output port is 1/2 NPT

Model Number	Description	List Price
AP20-SSV4-24VDC	1/2 NPT, Soft Start/Quick-Vent Valve, 24 volts DC	$262.50
AP20-SSV4-110VAC	1/2 NPT, Soft Start/Quick-Vent Valve, 110 volts AC	262.50
SC24VDC	Replacement Solenoid Coil for 24 Volt DC Soft Start Valve	22.90
SC110VAC	Replacement Solenoid Coil for 110 Volt AC Soft Start Valve	22.90

Dimensions



Accessories
Soft Start/Quick-Vent Valve
Specifications

Parameters	Specifications
Operating Pressure Range	35 to 140 psig (2.5 to 10.0 kg/cm^2)
Operating Temperature Range	0°F to 122°F (-10° to 50°C)
Materials of Construction	
Body	Zinc Diecast
Cap, Plug, Piston	Aluminum
Poppet	Brass
Seals	Nitrile
Exhaust Port	3/8" NPT
Solenoid Coil Voltages	
AP20-SSV4-24VDC	24 Volts DC
AP20-SSV4-110VAC	110 Volts 50HZ
Time to achieve full system pressure	Adjustable from 20 to 180 seconds

Operating Instructions

- The valve inlet side is fitted with an adapter, to be held in a modular assembly with Bimba AP20 Series Air Preparation Equipment
- The red lever on the solenoid pilot valve is an override and must be set to exhausting position "O"
- The flat-head adjusting screw on the top cap of the main valve regulates the time to reach full line pressure: minimum 20 seconds, maximum 180 seconds
- When the solenoid valve signal is lost, flow through the soft start valve is blocked, and downstream pressure is exhausted to atmosphere through the exhaust port on the bottom of the unit (3⁄8 NPT)

Compressed Air Filter

How to Order

Model Number below is: Medium Series, General Purpose Filter, 1/2 NPT Ports, Automatic Drain, 50 Micron Plastic Element, Metal Bowl with Sight Glass

AP60 - FG 4 A 3 D

SERIES	FILTER TYPE	PORT SIZE	DRAIN TYPE	FILTER ELEMENT	BOWL TYPE
AP60	FG - General Purpose	4 - 1/2 NPT 6 - 3/4 NPT	A - Auto Drain M - Manual Drain S - Semi Automatic	1 - 5µ Plastic 2 - 25µ Plastic 3 - 50µ Plastic 6 - 5µ Bronze 7 - 25µ Bronze 8 - 50µ Bronze	D - Metal Bowl P - Polycarbonate with Bowl Guard

List Prices

Medium Series (60), General Purpose Filters

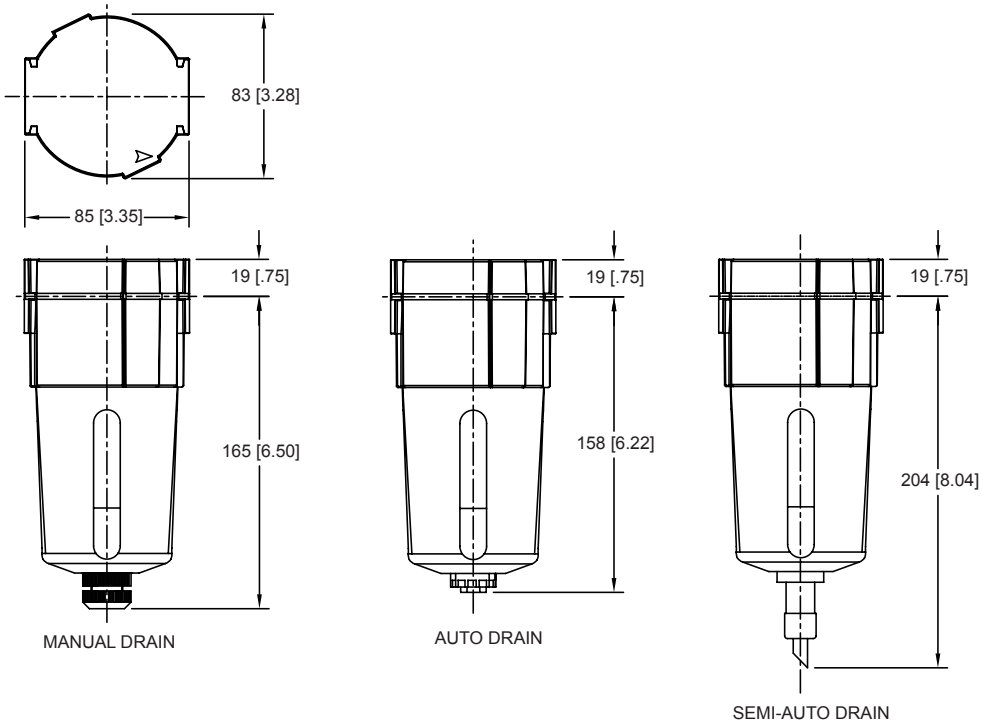
Base Model	Description	List Price
AP60-FG_M_P	General Purpose Filter, Manual Drain, Polycarbonate Bowl with Bowl Guard	$ 59.85
Add for options		
A	Automatic Drain	14.70
D	Metal Bowl with Sight Glass	14.70
S	Semi Automatic Drain	7.35

Options that do not affect price: Port Size, Filter Element

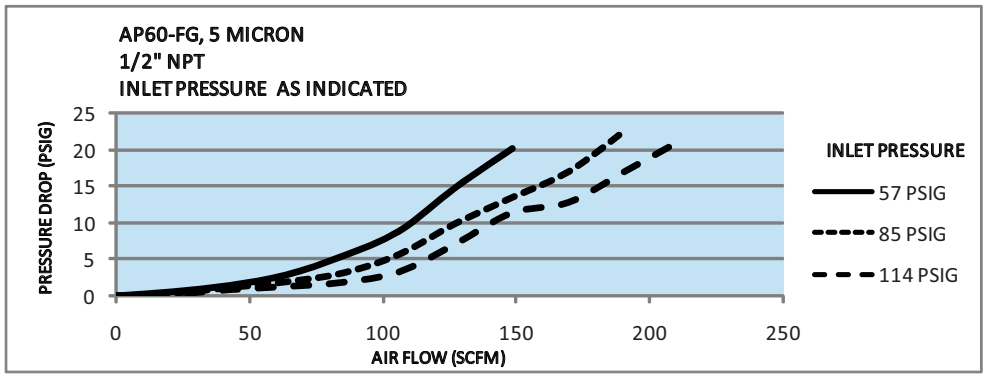
Specifications

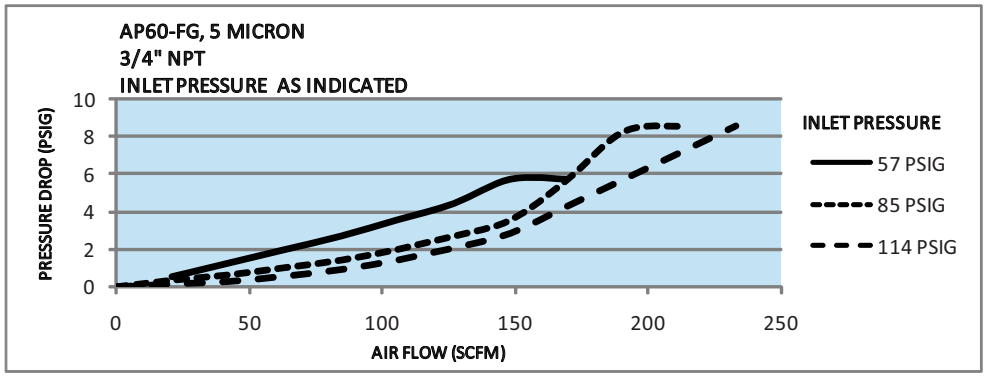
Parameters	Specifications	
Pipe Threads	1/2, 3/4 NPT	
Filter Element Size	5, 25, 50 micron	
Element Material	Plastic (Polypropylene) Sintered Bronze	
Body Material	Aluminum Alloy Die Cast	
Bowl Material	Transparent Polycarbonate with Bowl Guard or Aluminum Alloy Metal with Sight Glass	
Maximum Inlet Pressure	PC Bowl Metal Bowl	150 psig (10.5 kg/cm^2) 250 psig (17.5 kg/cm^2)
Maximum Operating Temperature (ambient)	PC Bowl Metal Bowl	125°F (50°C) 175°F (80°C)
Standard Nominal Flow Rate at 85 psig (6 bar) supply pressure and 14.5 psig (1 bar) drop	1/2 NPT 3/4 NPT	190 scfm (90 dm^3/sec) 225 scfm (105 dm^3/sec)

Compressed Air Filter



Dimensions in mm [inches]





Oil Removal Filter

How to Order

Model number below is: Medium Series, Oil Removal Filter, 1/2 NPT Ports, Automatic Drain, Polycarbonate Bowl with Bowl Guard

AP60 - FO 4 A 0 P

SERIES	PRODUCT	PORT SIZE	DRAIN TYPE	FILTER ELEMENT	BOWL TYPE
AP60	FO - Oil Removal Filter	4 - 1/2 NPT 6 - 3/4 NPT	A - Auto Drain M - Manual Drain S - Semi Automatic	0 - Oil Removal	D - Metal Bowl P - Polycarbonate with Bowl Guard

List Prices

Medium Series (60), Coalescing Filters

Base Model	Description	List Price
AP60-FO_MOP	Coalescing Filter, Polycarbonate Bowl with Bowl Guard, Manual Drain	$115.50
Add for options		
A	Automatic Drain	14.70
D	Metal Bowl	14.70
S	Semi Automatic Drain	7.35

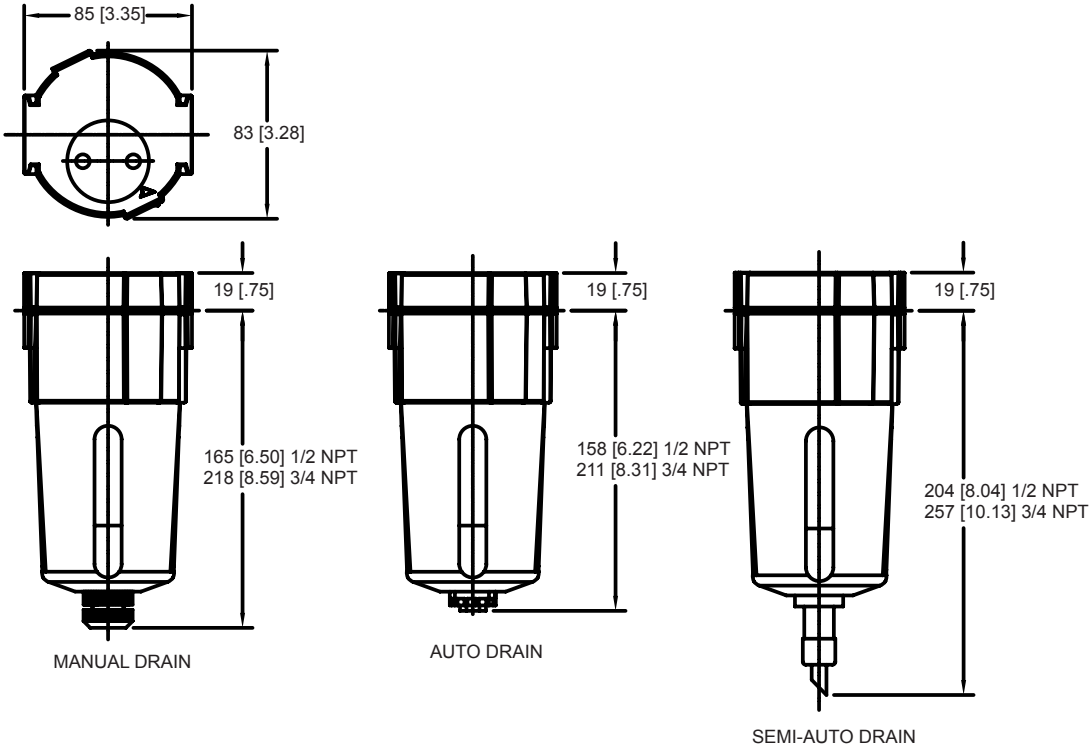
Options that do not affect price: Port Size

Specifications

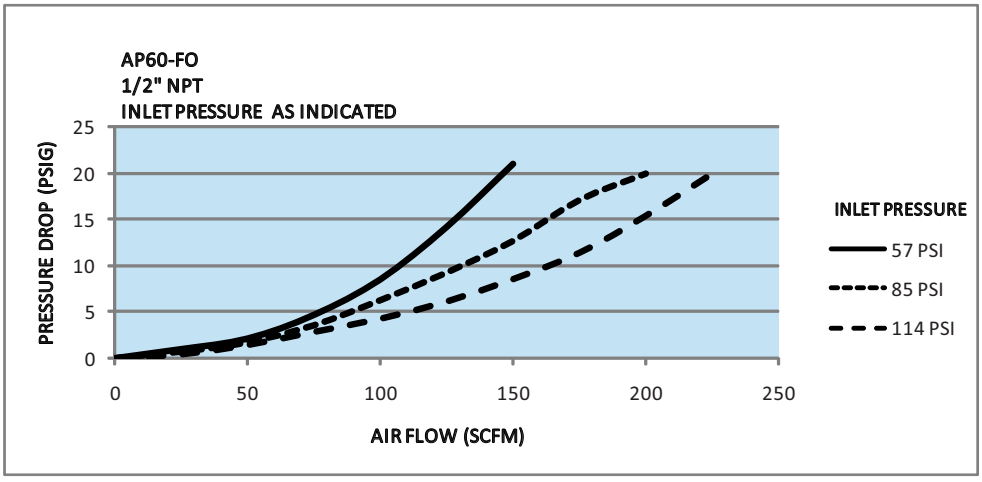
Parameters	Specifications	
Pipe Threads	1/2, 3/4 NPT	
Element Material	Borosilicate	
Body Material	Aluminum Alloy Die Cast	
Bowl Material	Polycarbonate with Bowl Guard or Aluminum Alloy Metal with Sight Glass	
Maximum Inlet Pressure	PC Bowl Metal Bowl	150 psig (10.5 kg/cm^2) 250 psig (17.5 kg/cm^2)
Operating Temperature Range (ambient)	PC Bowl Metal Bowl	20°F to 125°F (-6°C to 50°C) 80°F to 175°F (-6°C to 80°C)
Recommended Flow at an inlet pressure of 100 psig (7 kg/cm^2)	1/2 NPT 3/4 NPT	36 scfm (17 dm^3/sec)[1] 60 scfm (28 dm^3/sec)
Particle Removal	Up to 0.01 micron	
Maximum Oil Removal Content	Up to 0.01 ppm	
Drain Types Available	Manual Automatic Semi Automatic	
Note: Recommended	Use Pre-Filter with 5 micron Element	

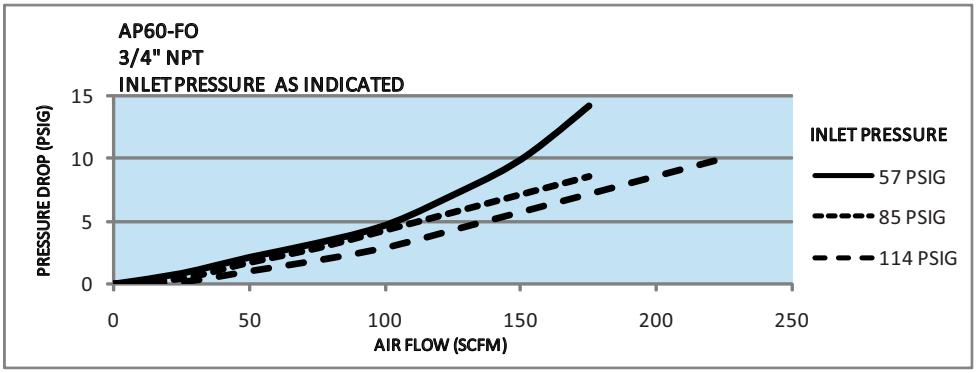
[1]*Higher flow version (60 scfm) of 1/2 NPT models are available upon special request.*

Oil Removal Filter



Dimensions in mm [inches]





Vapor Removal Filter

Activated carbon pack acts as an absorbent to assist in the removal of hydro carbon gases and also absorbs oil carry over in the event of any malfunction.

How to Order

Model number below is: Medium Series, Vapor Removal Filter, 1/2 NPT Ports, Transparent Polycarbonate Bowl with Bowl Guard

AP60 - FV 4 E 0 P

SERIES	FILTER TYPE	PORT SIZE	DRAIN TYPE	FILTER ELEMENT	BOWL TYPE
AP60	FV - Vapor Removal	4 - 1/2 NPT 6 - 3/4 NPT	E - Closed Bottom	0 - Vapor Removal	P - Polycarbonate with Bowl Guard

List Prices

Medium Series (60), Vapor Removal Filters

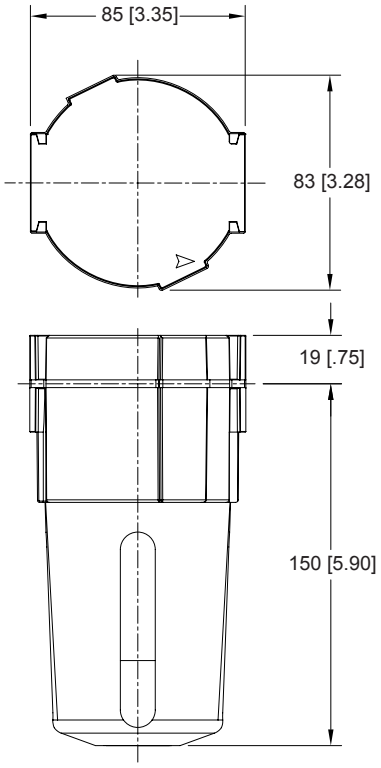
Base Model	Description	List Price
AP60-FV-E0P	Vapor Removal (.003 ppm), Closed Bottom Bowl	$136.50

Options that do not affect price: Port Size

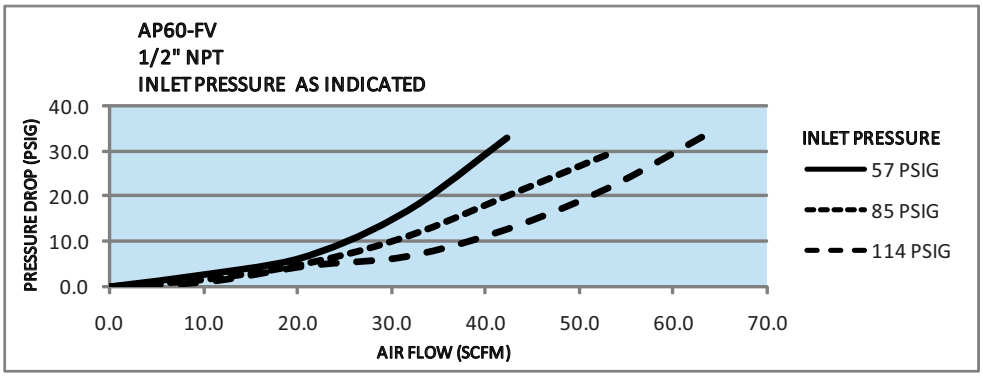
Specifications

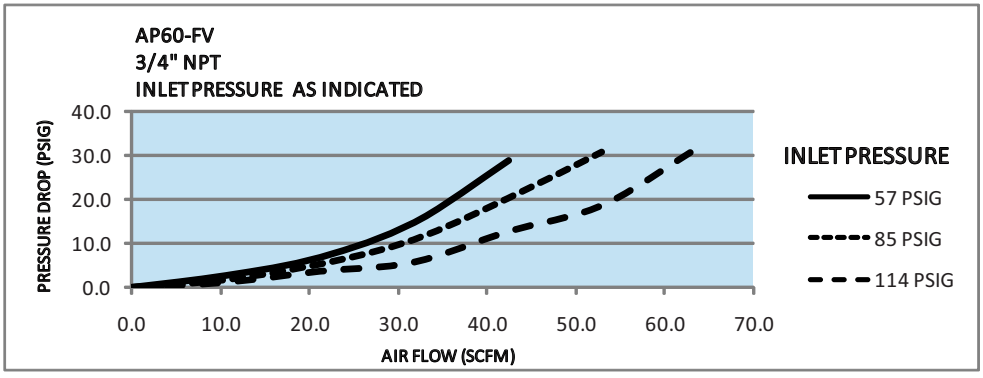
Parameters	Specifications
Pipe Threads	1/2, 3/4 NPT
Element Material	Activated Carbon
Body Material	Aluminum Alloy Die Cast
Bowl Material	Polycarbonate with Bowl Guard
Maximum Inlet Pressure	PC Bowl 150 psig (10.5 kg/cm^2)
Operating Temperature Range (ambient)	PC Bowl 20°F to 125°F (-6°C to 50°C)
Recommended Flow at an inlet pressure of 100 psig (7 kg/cm^2)	21 scfm (10 dm^3/sec)
Particle Removal	Up to 0.01 micron
Maximum Oil Removal Content	Up to 0.003 ppm
Note: Recommended	Use Pre-Filter with 5 micron Element

Vapor Removal Filter



Dimensions in mm [inches]





Pressure Regulator

How to Order

Model number below is: Medium Series, Air Pressure Regulator, 1/2 NPT Ports, No Gauge, 5 to 50 psi Pressure Range Adjustment

AP60 - R 4 N E

SERIES	PRODUCT	PORT SIZE	PRESSURE GAUGE	ADJUSTABLE RANGE
AP60	R - Regulator	4 - 1/2 NPT 6 - 3/4 NPT	G - With Gauge N - No Gauge	E - 5 to 50 psi L - 12 to 125 psi M - 15 to 150 psi

List Prices

Medium Series (60), Air Pressure Regulators

Base Model	Description	List Price
AP60-R___	Air Pressure Regulator	$ 57.75
Add for options		
G	Pressure Gauge	8.95

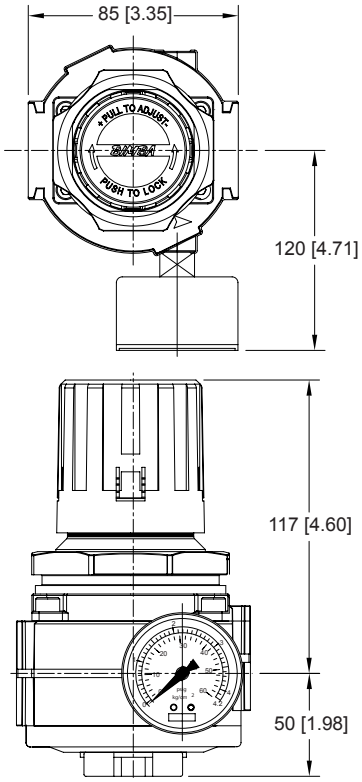
Options that do not affect price: Port Size, Adjustable Range

Specifications

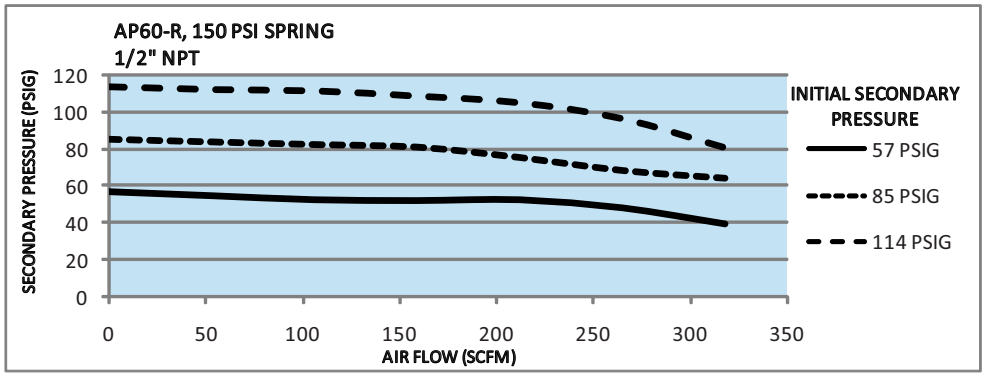
Parameters	Specifications
Pipe Threads	1/2, 3/4 NPT
Regulator Type	Relieving Diaphragm
Body Material	Aluminum Alloy Die Cast
Pressure Adjustment	Non-rising Plastic Knob
Maximum Inlet Pressure	300 psig (21.0 kg/cm^2)
Maximum Operating Temperature (ambient)	175°F (80°C)
Regulated Secondary Outlet Pressure Ranges Available*	5 to 50 psig 12 to 125 psig 15 to 150 psig
Gauge Size	40 mm OD
Gauge Port Size	1/8 NPT
Standard Nominal Flow Rate at 145 psig (10 bar) supply pressure, 85 psig (6 bar) secondary pressure, 14.5 psig (1 bar) drop	1/2 NPT 130 scfm (60 dm^3/sec) 3/4 NPT 170 scfm (80 dm^3/sec)
Panel Mounting	Nut included Standard NOTE: 1.89 in. (48.0 mm) diameter hole required for panel mounting

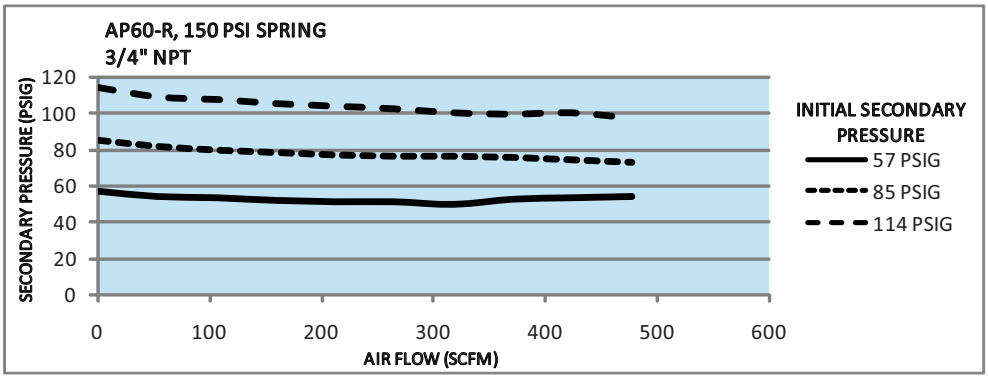
**Note: Regulated pressures can be adjusted to pressures greater than or less than the pressure ranges specified. For best results, pressure should always be set by adjusting the pressure up to the desired setting. Do not use these units to control pressures outside of the specified ranges.*

Pressure Regulator



Dimensions in mm [inches]





Air Line Lubricator

How to Order

Model number below is: Medium Series, Air Line Mist Lubricator, 1/2 NPT Ports, Metal Bowl

AP60 - L 4 D

SERIES	PRODUCT	PORT SIZE	BOWL TYPE
AP60	L - Lubricator	4 - 1/2 NPT 6 - 3/4 NPT	D - Metal Bowl P - Polycarbonate with Bowl Guard

List Prices

Medium Series (60), Air Line Lubricators

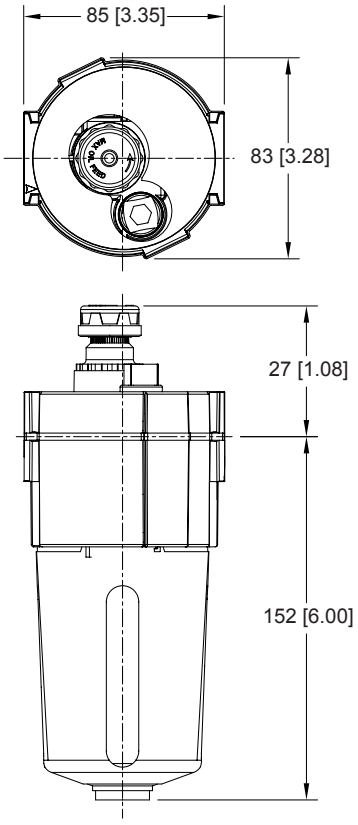
Base Model	Description	List Price
AP60-L_P	Air Line Lubricator, Polycarbonate Bowl with Bowl Guard	$ 65.10
Add for options		
D	Metal Bowl with Sight Glass	14.70

Options that do not affect price: Port Size

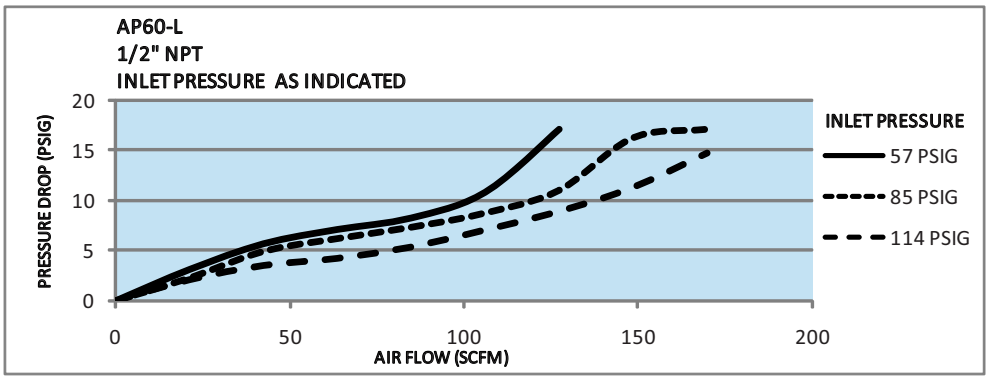
Specifications

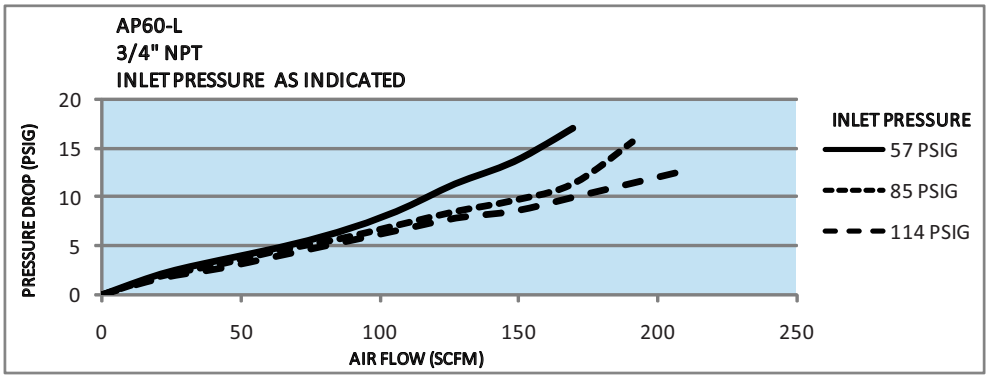
Parameters	Specifications	
Pipe Threads	1/2, 3/4 NPT	
Lubricator Type	Misting Type	
Body Material	Aluminum Alloy Die Cast	
Bowl Material	Transparent Polycarbonate with Bowl Guard or Aluminum Alloy Metal with Sight Glass	
Bowl Capacity	200 cc	
Maximum Inlet Pressure	PC Bowl Metal Bowl	150 psig (10.5 kg/cm^2) 250 psig (17.5 kg/cm^2)
Maximum Operating Temperature (ambient)	PC Bowl Metal Bowl	125°F (50°C) 175°F (80°C)
Standard Nominal Flow Rate at 85 psig (6 bar) supply pressure and 14.5 psig (1 bar) pressure drop	1/2 NPT 3/4 NPT	110 scfm (52 dm^3/sec) 125 scfm (60 dm^3/sec)
Minimum Flow Required to Start at 85 psig (at 6 bar inlet)	1/2 NPT 3/4 NPT	3.2 scfm (1.5 dm^3/sec) 3.2 scfm (1.5 dm^3/sec)

Air Line Lubricator



Dimensions in mm [inches]





Filter/Regulator Combination Unit

How to Order

Model number below is: Medium Series, F/R Combination Unit, 1/2 NPT Ports, Automatic Drain, 50 Micron Plastic Filter Element, Metal Bowl, No Gauge, 5 to 50 psi Pressure Range Adjustment

AP60 - C 4 A 3 D N E

SERIES	PORT SIZE	FILTER ELEMENT	PRESSURE GAUGE
AP60	4 - 1/2 NPT 6 - 3/4 NPT	1 - 5µ Plastic 2 - 25µ Plastic 3 - 50µ Plastic 6 - 5µ Bronze 7 - 25µ Bronze 8 - 50µ Bronze	G - With Gauge N - No Gauge

PRODUCT	DRAIN TYPE	BOWL TYPE	ADJUSTABLE RANGE
C - Combination, Stacked Filter/ Regulator	A - Auto Drain M - Manual Drain S - Semi Automatic	D - Metal Bowl P - Polycarbonate with Bowl Guard	E - 5 to 50 psi L - 12 to 125 psi M - 15 to 150 psi

List Prices

Medium Series (60), Combinations F/R Unit

Base Model	Description	List Price
AP60-C_M1PN_	F/R, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	$ 90.30
Add for options		
A	Automatic Drain	14.70
D	Metal Bowl with Sight Glass	14.70
G	Pressure Gauge	8.95
S	Semi Automatic Drain	7.35

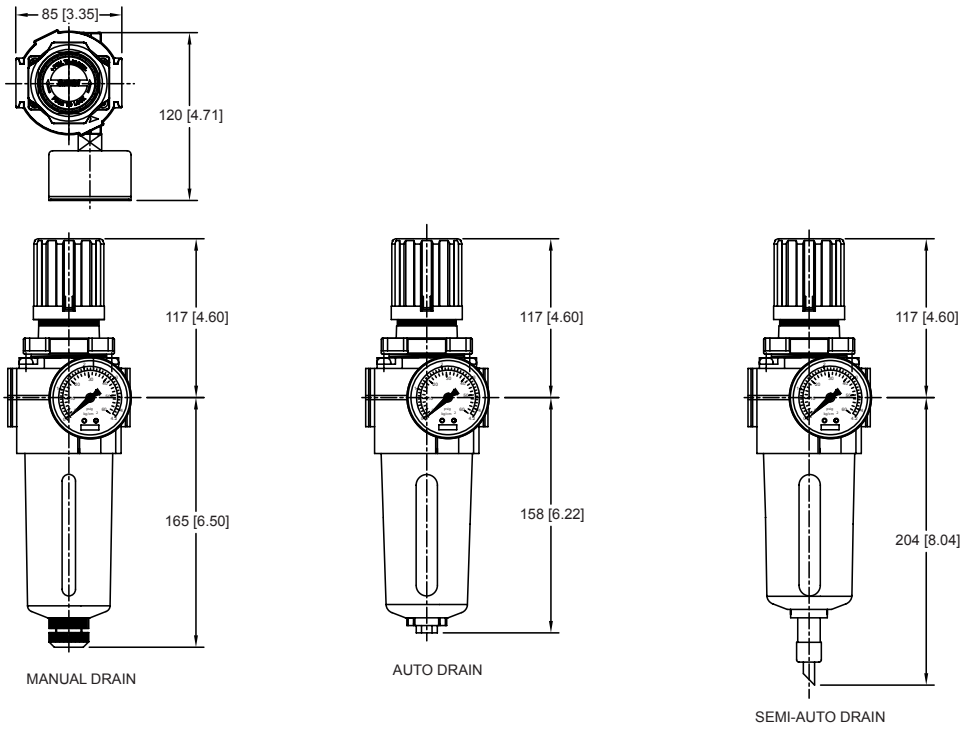
Options that do not affect price: Port Size, Adjustment Range, Filter Element

Specifications

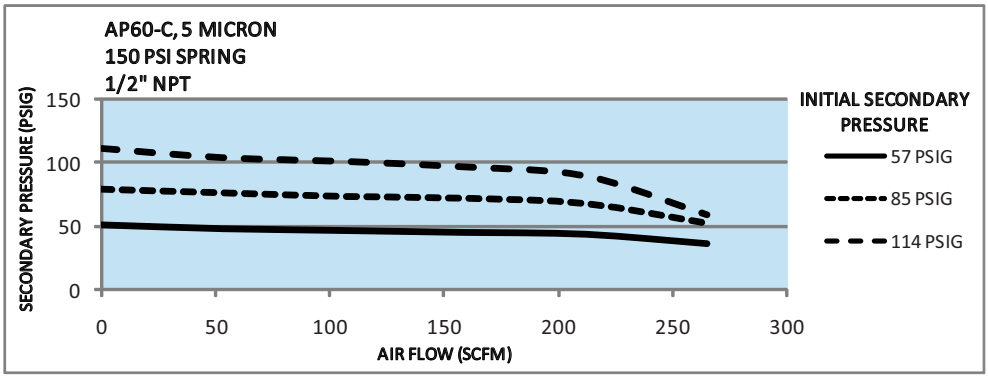
Parameters	Specifications	
Pipe Threads	1/2, 3/4 NPT	
Body Material	Aluminum Alloy Die Cast	
Filter Element Size	5, 25, 50 micron	
Filter Element Material	Plastic (Polypropylene) Sintered Bronze	
Filter Bowl Material	Transparent Polycarbonate with Bowl Guard or Aluminum Alloy Metal with Sight Glass	
Maximum Inlet Pressure	PC Bowl Metal Bowl	150 psig (10.5 kg/cm^2) 250 psig (17.5 kg/cm^2)
Maximum Operating Temperature (ambient)	PC Bowl Metal Bowl	125°F (50°C) 175°F (80°C)
Standard Nominal Flow Rate at 145 psig (10 bar) supply pressure and 14.5 psig (1 bar) in secondary pressure of 85 psig (6 bar)	1/2 NPT 3/4 NPT	113 scfm (54 dm^3/sec) 150 scfm (72 dm^3/sec)
Regulator Type	Relieving	
Pressure Adjustment	Non-rising Plastic Knob	
Regulated Secondary Outlet Pressure*	5 to 50 psig 12 to 125 psig 15 to 150 psig	
Gauge Size	40 mm OD	
Gauge Port Size	1/8 NPT	
Panel Mounting	Nut included Standard NOTE: 1.89 in. (48.0 mm) diameter hole required for panel mounting	

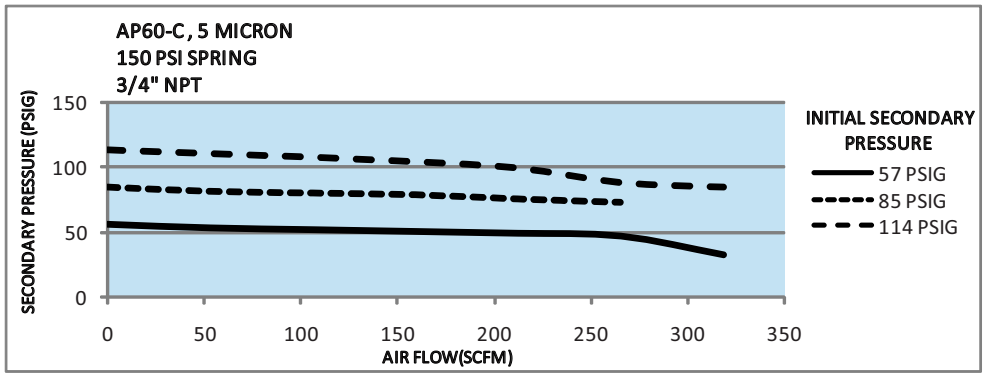
**Note: Regulated pressures can be adjusted to pressures greater than or less than the pressure ranges specified. For best results, pressure should always be set by adjusting the pressure up to the desired setting. Do not use these units to control pressures outside of the specified ranges.*

Filter/Regulator Combination Unit



Dimensions in mm [inches]





Assembled Combinations

How to Order

Model number below is: Medium Series, F/R + Lubricator Assembled Set, 1/2 NPT Ports, Manual Drain, 5 Micron Plastic Filter Element, Polycarbonate Bowl with Bowl Guard, No Pressure Gauge, 5 to 50 psi Pressure Range Adjustment, No Mounting Bracket

AP60 - CL 4 M 1 P N E N

SERIES	PORT SIZE	FILTER ELEMENT	PRESSURE GAUGE	MOUNTING BRACKET
AP60	4 - 1/2 NPT 6 - 3/4 NPT	1 - 5µ Plastic 2 - 25µ Plastic 3 - 50µ Plastic 6 - 5µ Bronze 7 - 25µ Bronze 8 - 50µ Bronze	G - With Gauge N - No Gauge	B - Include Bracket N - No Bracket

COMBO TYPE	DRAIN TYPE	BOWL TYPE	ADJUSTABLE RANGE
CL - F/R + Lubricator FGRL - F+R+L	A - Auto Drain M - Manual Drain S - Semi Automatic	D - Metal Bowl P - Polycarbonate with Bowl Guard	E - 5 to 50 psi L - 12 to 125 psi M - 15 to 150 psi

List Prices

Medium Series (60), Assembled Combinations

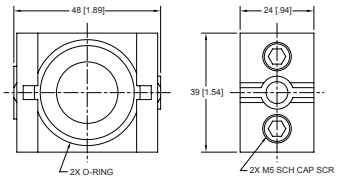
Base Model	Description	List Price
AP60-CL_M1PN__	F/R + L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	$165.90
AP60-FGRL_M1PN__	F + R + L, Manual Drain, Polycarbonate Bowl with Bowl Guard, 5µ Plastic Element, No Gauge	203.70
Add for options		
A	Automatic Drain	29.40
B	Mounting Bracket - CL Mounting Bracket - FGRL	9.45 18.90
D	Metal Bowl	29.40
G	Pressure Gauge	8.95

Options that do not affect price: Port Size, Adjustment Range, Filter Element

Accessories

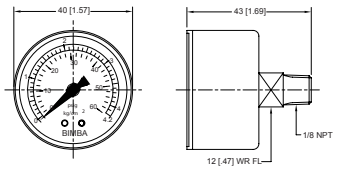
Connector Kit

Connector Kit	
CK60	$10.40



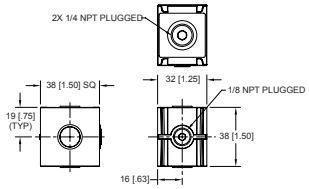
Gauge

Pressure Gauge	
PG-2 (0-60 psi)	$ 8.85
PG-3 (0-150 psi)	8.85



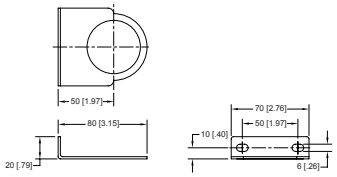
Porting Block

Porting Block	
PB60-1/4	$23.40



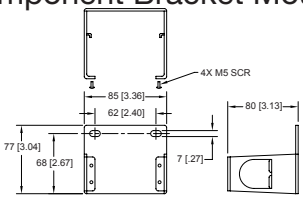
Regulator Bracket Mount

Regulator Bracket Mount	
PMB60	$ 9.45



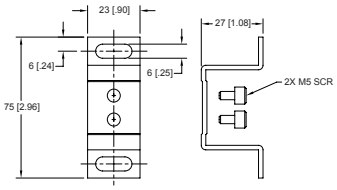
Component Bracket Mount

Component Bracket Mount	
MKS60	$11.55



Connector Kit Bracket Mount

Connector Kit Bracket Mount	
MKC60	$11.45



(Shown attached to Connector Kit)

Dimensions in mm [inches]

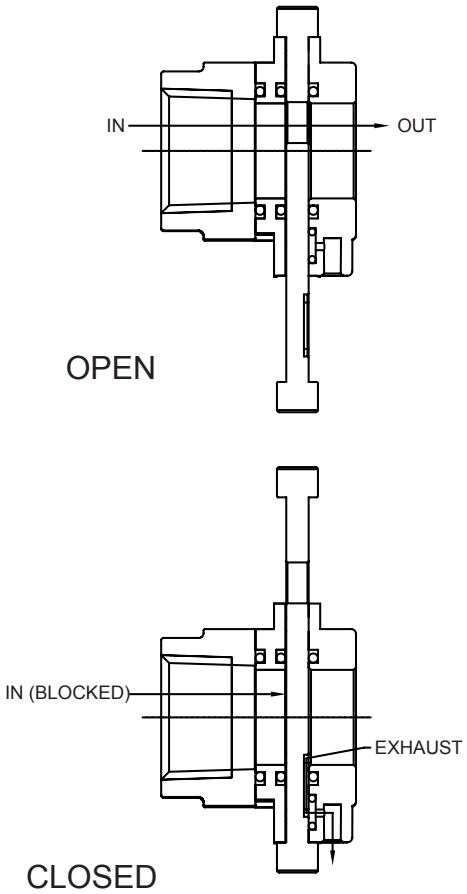
Accessories

Shut-off, Exhaust Valve

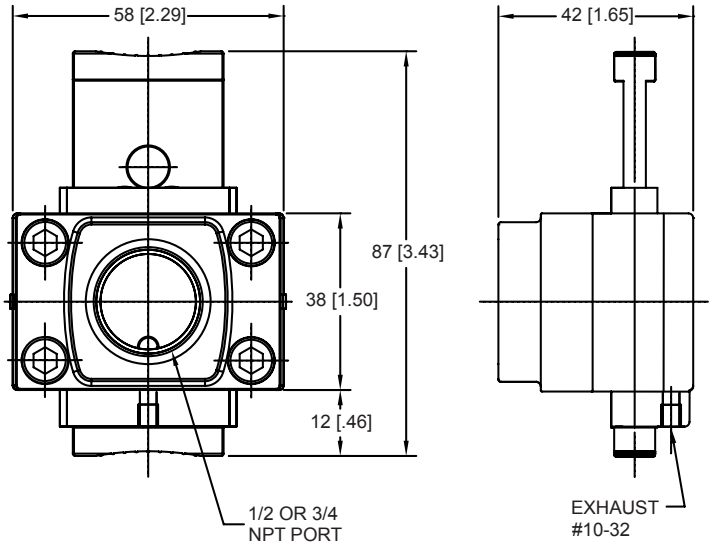
- Designed for modular installation in Medium (60) Series using CK60 Connector Kit
- Valve is 2-way, manually-operated, slide-type
- In closed position, air inlet is blocked, and downstream air is exhausted
- Exhaust port is threaded, so exhaust can be remote
- Valve may be locked in closed position with use of external padlock

Model Number	Description	List Price
AP60-SLV4	Shut-off, exhaust, lockout valve, 1/2 NPT	$22.05
AP60-SLV6	Shut-off, exhaust, lockout valve, 3/4 NPT	30.05

Operation



Dimensions



Dimensions in mm [inches]

Accessories

Soft Start/Quick-Vent Valve

- The Soft Start/Quick-Vent Valve is a 3-port, 2-position, normally closed device
- It can be installed in-line with Bimba's Medium Series (60) Air Preparation Equipment using Connector Kit CK60
- This unit controls the increase of downstream pressure upon startup, slowly bringing the system up to full line pressure
- When the pilot signal is removed, the air inlet is blocked and downstream pressure is exhausted
- Output port is 1/2 NPT or 3/4 NPT

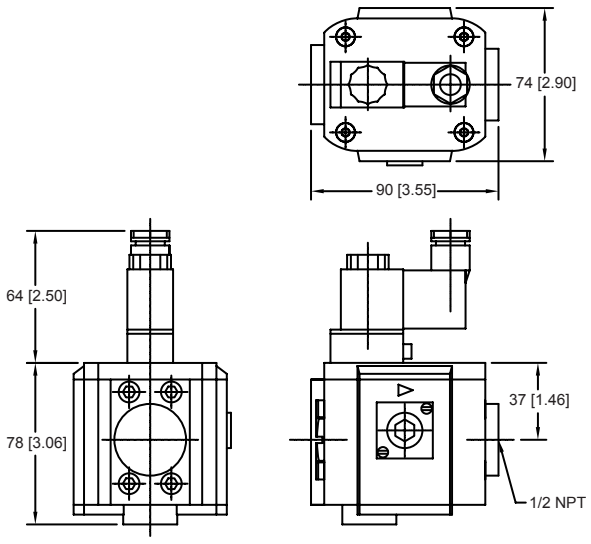
1/2 NPT Model

3/4 NPT Model

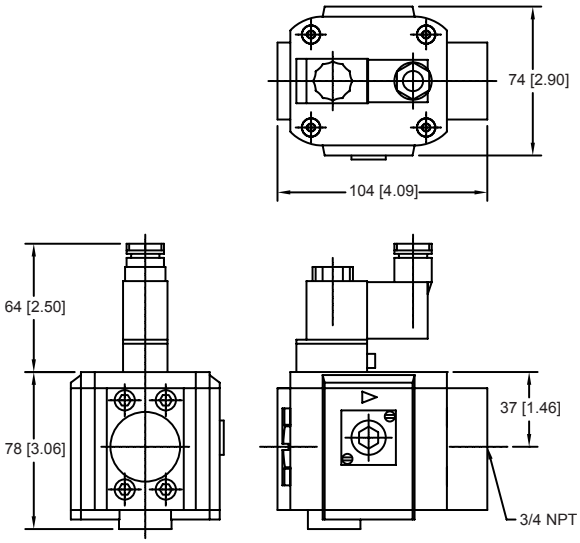
Model Number	Description	List Price
AP60-SSV4-24VDC	1/2 NPT Soft Start/Quick-Vent Valve 24 volts DC	$294.00
AP60-SSV4-110VAC	1/2 NPT Soft Start/Quick-Vent Valve 110 volts AC	294.00
AP60-SSV6-24VDC	3/4 NPT Soft Start/Quick-Vent Valve 24 volts DC	310.80
AP60-SSV6-110VAC	3/4 NPT Soft Start/Quick-Vent Valve 110 volts AC	310.80
SC24VDC-60	Replacement Solenoid Coil for 24 VDC Soft Start Valve	23.10
SC110VAC-60	Replacement Solenoid Coil for 110 VAC Soft Start Valve	23.10

Dimensions

1/2 NPT



3/4 NPT



Dimensions in mm [inches]

Accessories

Soft Start/Quick-Vent Valve

Specifications

Parameters	Specifications
Operating Pressure Range	35 to 130 psig
Operating Temperature Range	20°F to 140°F
Materials of Construction	
Body	Aluminum
Cap, Plug, Piston	Aluminum
Poppet	Aluminum
Seals	Nitrile
Exhaust Port	1/2 NPT
Solenoid Coil Voltages	
AP60-SSV4-24VDC	24 Volts DC
AP60-SSV4-110VAC	110 Volts 50HZ
AP60-SSV6-24VDC	24 Volts DC
AP60-SSV6-110VAC	110 Volts 50 HZ
Time to achieve full system pressure	Adjustable from 1 to 45 seconds

Operating Instructions

- The red button on the solenoid pilot valve is the manual override
- The socket head adjusting screw provided on the bottom face of the main valve regulates the time to reach full line pressure: minimum 1 second; maximum 45 seconds
- When the solenoid valve signal is lost, flow through the soft start valve is blocked, and downstream pressure is exhausted to atmosphere through the exhaust port on the bottom of the unit

Compressed Air Filter

How to Order

Model number below is: Large Series, General Purpose Filter, 1 NPT Ports, Automatic Drain, 5 Micron Bronze Filter Element, Metal Bowl

AP70 - FG 8 A 6 D

SERIES	FILTER TYPE	PORT SIZE	DRAIN TYPE	FILTER ELEMENT	BOWL TYPE
AP70	FG - General Purpose	8 - 1 NPT B - 1-1/2 NPT	A - Auto Drain M - Manual Drain	6 - 5µ Bronze 8 - 50µ Bronze	D - Metal Bowl

List Prices

Large Series (70), General Purpose Filters

Base Model	Description	List Price
AP70-FG_M_D	General Purpose Filter, Manual Drain, Metal Bowl with Sight Glass	$135.45
Add for options		
A	Automatic Drain	14.70
Most popular models, typically ship from stock		
AP70-FG_M6D	Manual Drain, Metal Bowl with Sight Glass, 5µ Bronze Element	135.45
AP70-FG_A6D	Automatic Drain, Metal Bowl with Sight Glass, 5µ Bronze Element	150.15

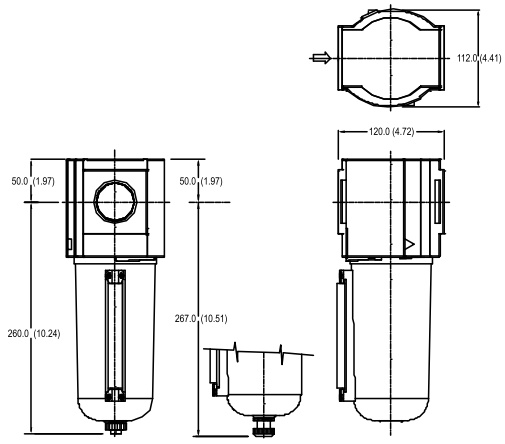
Options that do not affect price: Port Size, Filter Element

Compressed Air Filter

Specifications and Dimensions

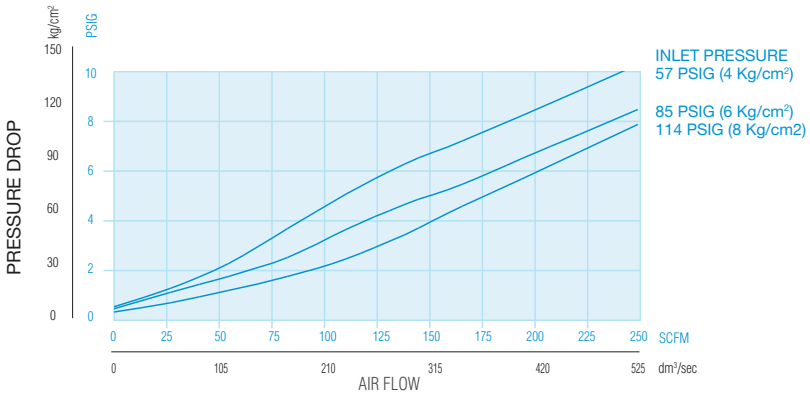
Parameters	Specifications
Pipe Threads	1, 1-1/2 NPT
Filter Element Size	5, 50 micron
Element Material	Sintered Bronze
Body Material	Aluminum Alloy Die Cast
Bowl Material	Aluminum Alloy Metal with Sight Glass
Maximum Inlet Pressure	250 psig (17.5 kg/cm²)
Maximum Operating Temperature (ambient)	175°F (80°C)
Standard Nominal Flow Rate at 85 psig (6 bar) supply pressure and 14.5 psig (1 bar) pressure drop	1 to 1-1/2 NPT 700 scfm (333 dm³/sec)
Drain Types Available	Manual Automatic

Dimensions in mm [inches]



With Auto Drain With Manual Drain

AP70-FG
1-1/2 NPT
Inlet pressure as indicated



Oil Removal Filter

How to Order

Model number below is: Large Series, Oil Removal Filter, 1 NPT Ports, Automatic Drain, Oil Removal Filter Element, Metal Bowl

AP70 - FO 8 A 0 D

SERIES	PRODUCT	PORT SIZE	DRAIN TYPE	FILTER ELEMENT	BOWL TYPE
AP70	FO - Oil Removal Filter	8 - 1 NPT B - 1-1/2 NPT	A - Auto Drain M - Manual Drain	0 - Oil Removal	D - Metal Bowl

List Prices

Large Series (70), Coalescing Filters

Base Model	Description	List Price
AP70-FO_M0P	Coalescing Filter, Manual Drain, Metal Bowl with Sight Glass	$231.00
Add for options		
A	Automatic Drain	14.70
Most popular models, typically ship from stock		
AP70-FO_M0D	Coalescing Filter, Manual Drain, Metal Bowl	231.00
AP70-FO_A0D	Coalescing Filter, Automatic Drain, Metal Bowl	245.70

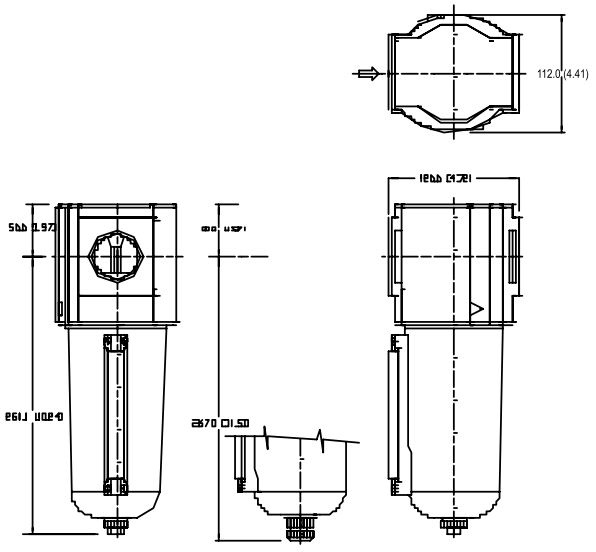
Options that do not affect price: Port Size

Oil Removal Filter

Specifications and Dimensions

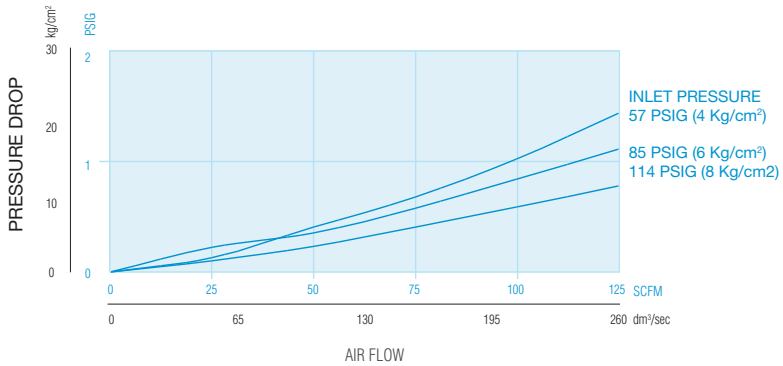
Parameters	Specifications
Pipe Threads	1, 1-1/2 NPT
Element Material	Synthetic Fiber and Polyurethane Foam
Body Material	Aluminum Alloy Die Cast
Bowl Material	Aluminum Alloy Metal with Sight Glass
Maximum Inlet Pressure	250 psig (17.5 kg/cm^2)
Operating Temperature Range (ambient)	20°F (-6°C) to 175°F (80°C)
Recommended Flow (at an inlet pressure of 7 kg/cm^2)	120 scfm (57 dm^3/sec)
Particle Removal	Up to 0.01 micron
Maximum Oil Removal Content	Up to 0.01 ppm at +21°C
Drain Types Available	Manual Automatic
Note: Recommended	Use Pre-Filter with 5 micron Element

Dimensions in mm [inches]



With Auto Drain With Manual Drain

AP70-FO
1-1/2 NPT
Inlet pressure as indicated



Pressure Regulator

How to Order

Model number below is: Large Series, Regulator, 1 NPT Ports, No Pressure Gauge, 15 to 150 psi Pressure Range Adjustment

AP70 - R 8 N M

SERIES	PRODUCT	PORT SIZE	PRESSURE GAUGE	ADJUSTMENT RANGE
AP70	R - Regulator	8 - 1 NPT B - 1-1/2 NPT	G - With Gauge N - No Gauge	E - 5 to 50 psi M - 15 to 150 psi

List Prices

Large Series (70), Air Pressure Regulators

Base Model	Description	List Price
AP70-R___	Air Pressure Regulator	$ 89.25
Add for options		
G	Pressure Gauge	8.95
Most popular models, typically ship from stock		
AP70-R_N_	Regulator, No Gauge	89.25
AP70-R_G_	Regulator, with Gauge	98.20

Options that do not affect price: Port Size, Pressure Range

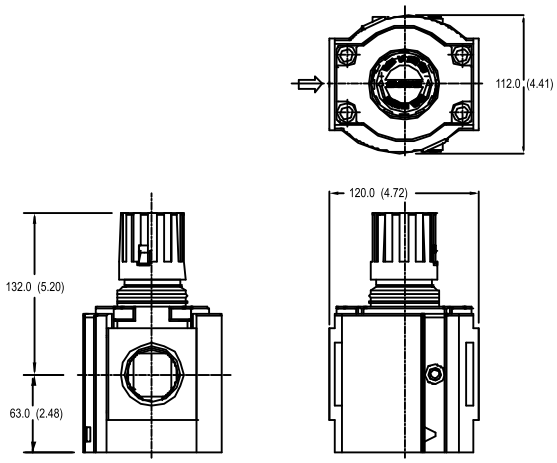
Pressure Regulator

Specifications and Dimensions

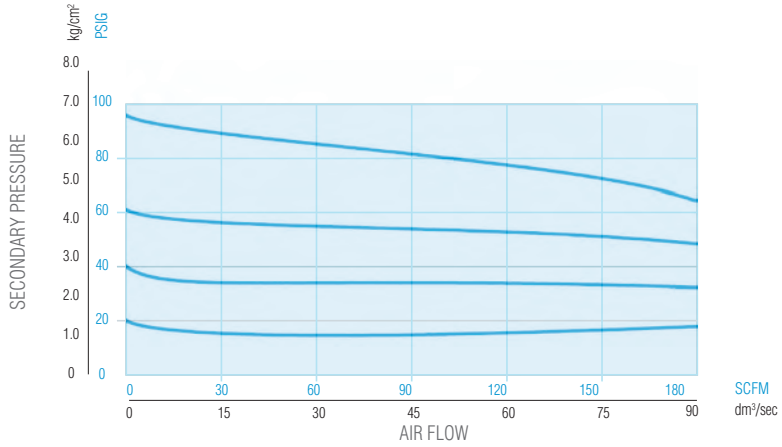
Parameters	Specifications
Pipe Threads	1, 1-1/2 NPT
Type	Relieving
Body Material	Aluminum Alloy Die Cast
Pressure Adjustment	Non-rising Plastic Knob
Maximum Inlet Pressure	300 psig (21.0 kg/cm^2)
Maximum Operating Temperature (ambient)	175°F (80°C)
Regulated Secondary Outlet Pressure*	5 to 50 psig 15 to 150 psig
Gauge Size	52 mm OD
Gauge Port Size	1/8 NPT
Standard Nominal Flow Rate at 145 psig (10 bar) supply pressure, 85 psig (6 bar) secondary pressure, 14.5 psig (1 bar) drop	1 to 1-1/2 NPT 440 scfm (210 dm^3/sec)
Panel Mounting	Nut Included Standard NOTE: 2.28 in. (57.9 mm) diameter hole required for panel mounting

**Note: Regulated pressures can be adjusted to pressures greater than or less than the pressure ranges specified. For best results, pressure should always be set by adjusting the pressure up to the desired setting. Do not use these units to control pressures outside of the specified ranges.*

Dimensions in mm [inches]



AP70-R
1-1/2 NPT
Inlet pressure = 140 PSIG (10kg/cm^2)



Air Line Lubricator

How to Order

Model number below is: Large Series, Air Line Mist Lubricator, 1 NPT Ports, Metal Bowl

AP70 - L 8 D

SERIES	PRODUCT	PORT SIZE	BOWL TYPE
AP70	L - Lubricator	8 - 1 NPT B - 1-1/2 NPT	D - Metal Bowl

List Prices

Large Series (70), Air Line Lubricators

Base Model	Description	List Price
AP70-L_D	Air Line Lubricator, Metal Bowl with Sight Glass	$126.00
Most popular models, typically ship from stock		
AP70-L_D	Lubricator, Metal Bowl with Sight Glass	126.00

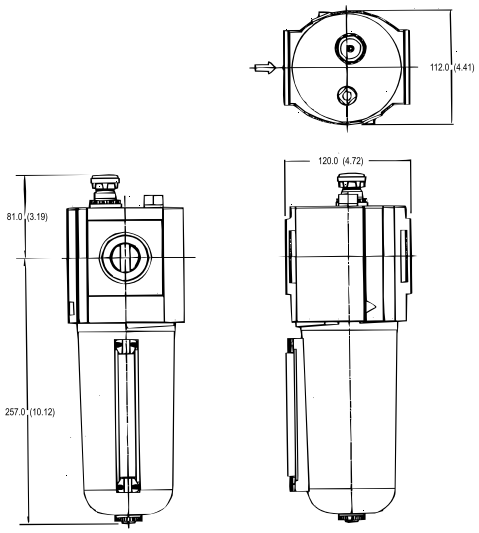
Options that do not affect price: Port Size

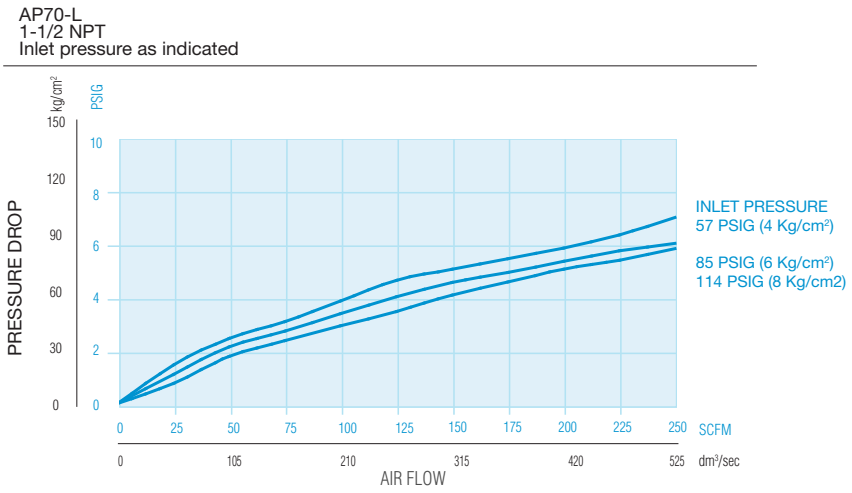
Air Line Lubricator

Specifications and Dimensions

Parameters	Specifications
Pipe Threads	1, 1-1/2 NPT
Lubricator Type	Misting Type
Body Material	Aluminum Alloy Die Cast
Bowl Material	Aluminum Alloy Metal with Sight Glass
Bowl Capacity	1 liter
Maximum Inlet Pressure	250 psig (17.5 kg/cm²)
Maximum Operating Temperature (ambient)	175°F (80°C)
Standard Nominal Flow Rate at 85 psig (6 bar) supply and 14.5 psig (1 bar) drop	1 to 1-1/2 NPT 410 scfm (195 dm³/sec)
Minimum Flow Required to Start at 85 psig (6 bar) inlet	7.2 scfm (3.4 dm³/sec)
Recommended Lubricants	Use any misting type oil rated 50 - 200 SSU (ISO grade 7 - 46) at 38°C (100°F)

Dimensions in mm [inches]





Filter/Regulator Combination Unit

How to Order

Model number below is: Large Series, Combination Stacked Filter/Regulator, 1 NPT Ports, Automatic Drain, 6 Micron Bronze Element, Metal Bowl, No Pressure Gauge, 15 to 150 psi Pressure Range Adjustment

AP70 - C 8 A 6 D N M

SERIES	PORT SIZE	FILTER ELEMENT	PRESSURE GAUGE
AP70	8 - 1 NPT B - 1-1/2 NPT	6 - 5µ Bronze 8 - 50µ Bronze	G - With Gauge N - No Gauge

PRODUCT	DRAIN TYPE	BOWL TYPE	ADJUSTMENT RANGE
C - Combination, Stacked Filter/ Regulator	A - Auto Drain M - Manual Drain	D - Metal Bowl	E - 5 to 50 psi M - 15 to 150 psi

List Prices

Large Series (70), Combinations F/R Unit

Base Model	Description	List Price
AP70-C_M1DN_	F/R, Manual Drain, Metal Bowl with Sight Glass, 5µ Bronze Element, No Gauge	$168.00
Add for options		
A	Automatic Drain	14.70
G	Pressure Gauge	8.95
Most popular models, typically ship from stock		
AP70-C_M6DN_	F/R, Manual Drain, Metal Bowl, 5µ Bronze Element, No Gauge	168.00
AP70-C_A6DN_	F/R, Automatic Drain, Metal Bowl, 5µ Bronze Element, No Gauge	182.70
AP70-C_M6DG_	F/R, Manual Drain, Metal Bowl, 5µ Bronze Element, Gauge	176.95
AP70-C_A6DG_	F/R, Automatic Drain, Metal Bowl, 5µ Bronze Element, Gauge	191.65

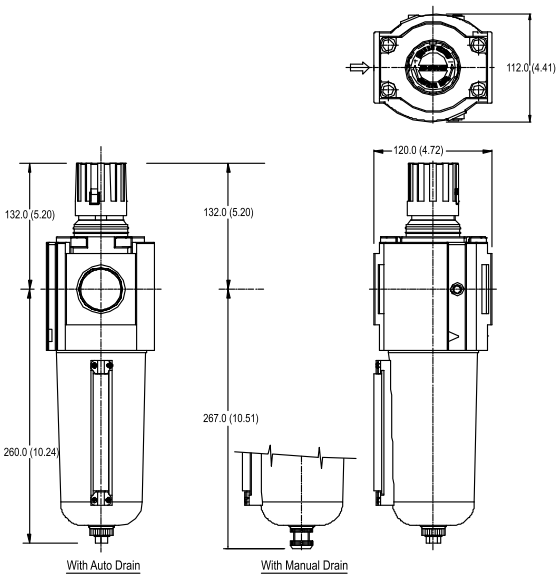
Options that do not affect price: Port Size, Pressure Range, Filter Element

Filter/Regulator Combination Unit

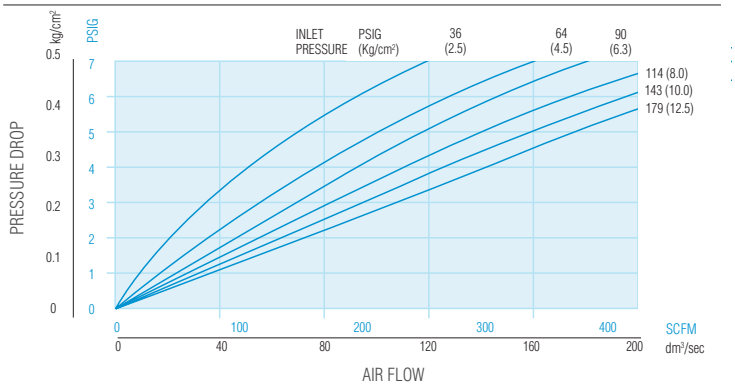
Specifications and Dimensions

Parameters	Specifications
Pipe Threads	1, 1-1/2 NPT
Body Material	Aluminum Alloy Die Cast
Filter Element Size	5, 50 micron
Filter Element Material	Sintered Bronze
Filter Bowl Material	Aluminum Alloy Metal with Sight Glass
Maximum Inlet Pressure	250 psig (17.5 kg/cm^2)
Maximum Operating Temperature (ambient)	175°F (80°C)
Standard Nominal Flow Rate (at 10 bar supply pressure, 6 bar secondary pressure, 1 bar drop)	1 to 1-1/2 NPT 420 scfm (200 dm^3/sec)
Drain Types Available	Manual Automatic
Pressure Adjustment	Non-rising Plastic Knob
Regulated Secondary Outlet Pressure Range	5 to 50 psig 15 to 150 psig
Gauge Size	50 mm OD
Gauge Port Size	1/8 NPT
Panel Mounting	Nut Included Standard NOTE: 2.28 in. (57.9 mm) diameter hole required for panel mounting

Dimensions in mm [inches]



AP70-C
1 NPT
Inlet pressure as indicated



Accessories

Pressure Gauge	
PG-4 (0-60)	$ 8.85
PG-5 (0-220)	8.85

50mm OD Gauge

Panel Mount Nut	
PN70	$20.80

Nut to Panel Mount AP70-R and AP70-C

Connector Kit	
CK70	$17.70

Interconnect Series 70 Units

FRL Replacement Parts

Replacement Filter Elements

Series	Description	Part Number	Price
Series 10	5M Plastic	FE10-5P	$ 2.10
	25M Plastic	FE10-25P	2.10
	100M Plastic	FE10-100P	2.10
	5M Bronze	FE10-5B	4.20
	25M Bronze	FE10-25B	4.20
	100M Bronze	FE10-100B	4.20
	Oil	FE10-OIL	26.00
Series 20	5M Plastic	FE20-5P	4.20
	25M Plastic	FE20-25P	4.20
	50M Plastic	FE20-50P	4.20
	5M Bronze	FE20-5B	7.30
	25M Bronze	FE20-25B	7.30
	50M Bronze	FE20-50B	7.30
	Oil	FE20-OIL	41.60
	Vapor	FE20-VAPOR	39.55
Series 60	5M Plastic	FE60-5P	6.25
	25M Plastic	FE60-25P	6.25
	50M Plastic	FE60-50P	6.25
	5M Bronze	FE60-5B	14.60
	25M Bronze	FE60-25B	14.60
	50M Bronze	FE60-50B	14.60
	Oil	FE60-OIL	46.80
	Vapor	FE60-VAPOR	78.00
Series 70	5M Bronze	FE70-5B	36.40
	50M Bronze	FE70-50B	36.40
	Oil	FE70-OIL	88.40

Replacement Bowls

Series	Description	Part Number	Price
Series 10	Polycarbonate Bowl with Manual Drain	RB10-PM	$ 5.20
	Polycarbonate Bowl with Automatic Drain	RB10-PA	9.90
	Metal Bowl with Manual Drain	RB10-DM	8.35
	Metal Bowl with Automatic Drain	RB10-DA	13.00
	Polycarbonate Bowl for Lubricator	RB10-PL	5.20
	Metal Bowl for Lubricator	RB10-DL	9.90
Series 20	Polycarbonate Bowl with Guard and Manual Drain	RB20-PM	7.80
	Polycarbonate Bowl with Guard and Automatic Drain	RB20-PA	22.40
	Metal Bowl with Sight and Manual Drain	RB20-DM	18.20
	Metal Bowl with Sight and Automatic Drain	RB20-DA	32.80
	Polycarbonate Bowl for Lubricator	RB20-PL	7.80
	Metal Bowl for Lubricator	RB20-DL	18.20
	Bowl for Vapor Removal Filter	RB20-T	7.80

FRL Replacement Parts

Replacement Bowls (continued)

Series	Description	Part Number	Price
Series 60	Polycarbonate Bowl with Guard and Manual Drain	RB60-PM	$15.60
	Polycarbonate Bowl with Guard and Automatic Drain	RB60-PA	30.20
	Metal Bowl with Sight and Manual Drain	RB60-DM	26.00
	Metal Bowl with Sight and Automatic Drain	RB60-DA	40.60
	Polycarbonate Bowl for Lubricator	RB60-PL	15.60
	Metal Bowl for Lubricator	RB60-DL	30.20
	Bowl for Vapor Removal Filter	RB60-P	15.60
Series 70	Metal Bowl with Sight and Manual Drain	RB70-DM	62.40
	Metal Bowl with Sight and Automatic Drain	RB70-DA	77.00

Panel Nut for Regulators and Combination Units

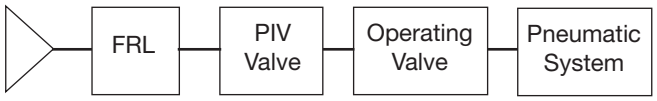
Series	Part Number	Price
Series 10	PN10	$ 2.10
Series 20	PN20	3.65
Series 60	PN60	3.65
Series 70	PN70	20.80

Replacement Regulator Springs

Series	Description	Part Number	Price
Series 10 Regulator	Control Spring 5-50 psig	CS10-E	$ 2.10
	Control Spring 10-100 psig	CS10-K	2.60
	Valve Spring	VS10	1.60
Series 10 F/R Combo	Control Spring 5-50 psig	CS10-E	2.10
	Control Spring 10-100 psig	CS10-K	2.60
	Valve Spring	VS10	1.60
Series 20 Regulator	Control Spring 6-60 psig	CS20-F	3.35
	Control Spring 12-125 psig	CS20-LR	4.70
	Control Spring 15-150 psig	CS20-M	5.20
	Valve Spring	VS20-R	3.65
Series 20 F/R Combo	Control Spring 6-60 psig	CS20-F	3.35
	Control Spring 12-125 psig	CS20-LC	5.20
	Control Spring 15-150 psig	CS20-M	5.20
	Valve Spring	VS20-C	4.20
Series 60 Regulator	Control Spring 5-50 psig	CS60-E	5.20
	Control Spring 12-125 psig	CS60-L	8.85
	Control Spring 15-150 psig	CS60-M	8.85
	Valve Spring	VS60	6.45
Series 60 F/R Combo	Control Spring 5-50 psig	CS60-E	5.20
	Control Spring 12-125 psig	CS60-L	8.85
	Control Spring 15-150 psig	CS60-M	8.85
	Valve Spring	VS60	6.45
Series 70 Regulator	Control Spring 5-50 psig	CS70-E	5.75
	Control Spring 15-150 psig	CS70-M	9.40
	Valve Spring	VS70	6.45
Series 70 F/R Combo	Control Spring 5-50 psig	CS70-E	5.75
	Control Spring 15-150 psig	CS70-M	9.40
	Valve Spring	VS70	6.45

Bimba Manual Pneumatic Isolation Valves - PIV Series

Pneumatic Isolation Valves are typically the first valve following the FRL components in the line supplying compressed air to pneumatic equipment.



Pneumatic Isolation Valves are the critical component in any safety lock-out, tagout system. Available sizes range from 1/4" inlet/outlet ports with 3/8" exhaust ports up to 1-1/2" inlet/outlet ports with 2" exhaust ports.

Available accessories include air mufflers, pressure switches, and air pressure “visual” indicators, and connecting hex nipples.

List Prices

Valves

Part Number	Inlet/Outlet Port Size	Exhaust Port Size	Cv		List Price
			In/Out	Exhaust	
PIV-20-025/038	1/4 NPT	3/8 NPT	1.8	1.7	$75.55
PIV-20-038/038	3/8 NPT	3/8 NPT	2.6	2.6	75.55
PIV-20-038/075	3/8 NPT	3/4 NPT	4.7	3.5	103.35
PIV-60-050/075	1/2 NPT	3/4 NPT	7.1	4.0	103.35
PIV-60-075/075	3/4 NPT	3/4 NPT	8.2	4.1	103.35
PIV-60-075/125	3/4 NPT	1-1/4 NPT	13.1	8.9	142.35
PIV-70-100/125	1 NPT	1-1/4 NPT	16.5	9.5	142.35
PIV-70-125/125	1-1/4 NPT	1-1/4 NPT	19.2	9.7	142.35
PIV-70-150/200	1-1/2 NPT	2 NPT	35.5	50.9	453.30

Note: The part numbers have been configured to provide information on applicable FRL series and port sizes. There is some overlap in the applicable FRL series.

For example: **PIV** (Pneumatic Isolation Valve) - **60** (60 series FRL) - **050** (Inlet/Outlet Port Size) - **075** (Exhaust Port Size)

Referenced Standards:

All standards are subject to revision. Parties are encouraged to investigate and apply the most recent editions of the standards indicated below.

OSHA 29 CFR 1910.147
CSA Z142-02
CSA Z460-05
ISO 13849-1
ISO 14118:2000
EN 1037
ANSI/ASSE Z244.1-2003
ANSI/PMMI B155.1-2006

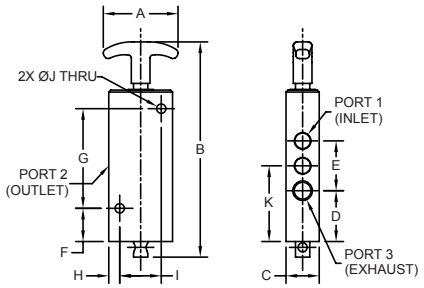
Accessories

Part Number	Description	Port Size	Average Cv	List Price
PIV-SIL-013	Air Muffler	1/8 NPT	2.0	$13.15
PIV-SIL-025	Air Muffler	1/4 NPT	2.7	13.15
PIV-SIL-038	Air Muffler	3/8 NPT	3.2	13.15
PIV-SIL-038-HF	Air Muffler (High Flow)	3/8 NPT	4.9	18.30
PIV-SIL-050	Air Muffler	1/2 NPT	5.9	18.30
PIV-SIL-075	Air Muffler	3/4 NPT	5.9	18.30
PIV-SIL-075-HF	Air Muffler (High Flow)	3/4 NPT	13.5	36.85
PIV-SIL-100	Air Muffler	1 NPT	16.7	36.85
PIV-SIL-125	Air Muffler	1-1/4 NPT	17.4	36.85
*PIV-SIL-200	Air Muffler	2 NPT	54.0	102.00
CK10-1/8	Hex Nipple	1/8 NPT	N/A	3.25
CK10-1/4	Hex Nipple	1/4 NPT	N/A	4.00
CK20-3/8	Hex Nipple	3/8 NPT	N/A	4.10
CK60-1/2	Hex Nipple	1/2 NPT	N/A	5.45
CK60-3/4	Hex Nipple	3/4 NPT	N/A	8.95
CK70-1	Hex Nipple	1 NPT	N/A	14.00
CK70-1-1/4	Hex Nipple	1-1/4 NPT	N/A	28.15
CK70-1-1/2	Hex Nipple	1-1/2 NPT	N/A	50.85

Caution Note: Mufflers only rated to 150 psi.
Note: This size contains female threads. All other sizes are male threaded.

Dimensions

PIV Valves

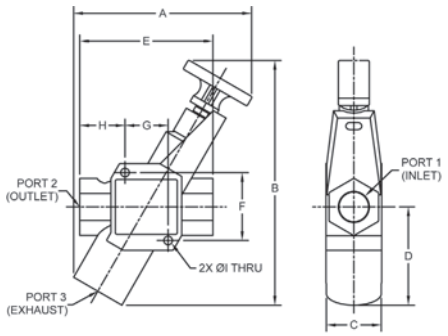


Part Number	In-Out Port Size	Exhaust Port Size	A	B	C	D	E	F	G	H	I	J	K
PIV-20-025/038	1/4	3/8	2.3	6.9	1.0	1.3	1.0	1.0	3.0	0.3	1.3	0.3	1.9
PIV-20-038/038	3/8	3/8	2.3	6.9	1.0	1.3	1.0	1.0	3.0	0.3	1.3	0.3	1.9

All dimensions are inches.

Dimensions

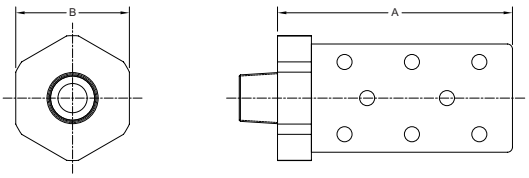
PIV Valves



Part Number	In-Out Port Size	Exhaust Port Size	A (open)	B (open)	C	D	E	F	G	H	I
PIV-20-038/075	3/8	3/4	6.6	9.0	2.0	3.0	4.4	2.3	1.3	1.6	0.34
PIV-60-050/075	1/2	3/4	6.6	9.0	2.0	3.0	4.4	2.3	1.3	1.6	0.34
PIV-60-075/075	3/4	3/4	6.6	9.0	2.0	3.0	4.4	2.3	1.3	1.6	0.34
PIV-60-075/125	3/4	1-1/4	7.7	10.8	2.3	3.8	5.5	2.8	1.8	1.9	0.34
PIV-70-100/125	1	1-1/4	7.7	10.8	2.3	3.8	5.5	2.8	1.8	1.9	0.34
PIV-70-125/125	1-1/4	1-1/4	7.7	10.8	2.3	3.8	5.5	2.8	1.8	1.9	0.34
PIV-70-150/200	1-1/2	2	8.2	14.8	3.0	5.0	8.2	3.2	3.4	2.4	0.47

All dimensions are inches.

Air Mufflers

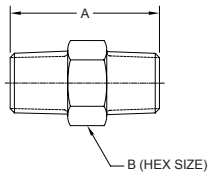


Part Number	Port Size	A	B
PIV-SIL-013	1/8	1.6	0.8
PIV-SIL-025	1/4	1.6	0.8
PIV-SIL-038	3/8	1.6	0.8
PIV-SIL-038-HF	3/8	2.9	1.3
PIV-SIL-050	1/2	2.9	1.3
PIV-SIL-075	3/4	2.9	1.3
PIV-SIL-075-HF	3/4	4.5	2.0
PIV-SIL-100	1	4.5	2.0
PIV-SIL-125	1-1/4	4.5	2.0
*PIV-SIL-200	2	6.6	3.0

All dimensions are inches.

** Note: The PIV-SIL-200 contains female threads. All other sizes are male threaded.*

Hex Nipples



Part Number	Thread Size	A	B	Material
CK10-1/8	1/8 NPT	1.06	7/16"	Black Oxide Steel
CK10-1/4	1/4 NPT	1.50	5/8"	Black Oxide Steel
CK20-3/8	3/8 NPT	1.45	3/4"	Zinc Plated Steel
CK60-1/2	1/2 NPT	1.89	7/8"	Zinc Plated Steel
CK60-3/4	3/4 NPT	1.96	1-1/8"	Zinc Plated Steel
CK70-1	1 NPT	2.34	1-3/8"	Zinc Plated Steel
CK70-1-1/4	1-1/4 NPT	2.48	1-3/4"	Zinc Plated Steel
CK70-1-1/2	1-1/2 NPT	2.61	2"	Zinc Plated Steel

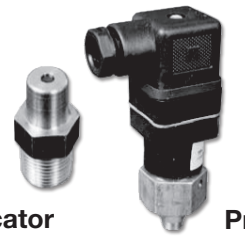
Pneumatic Energy Release Verification Options

Visual Pop-Up Indicator or Pressure Switch (electrical)

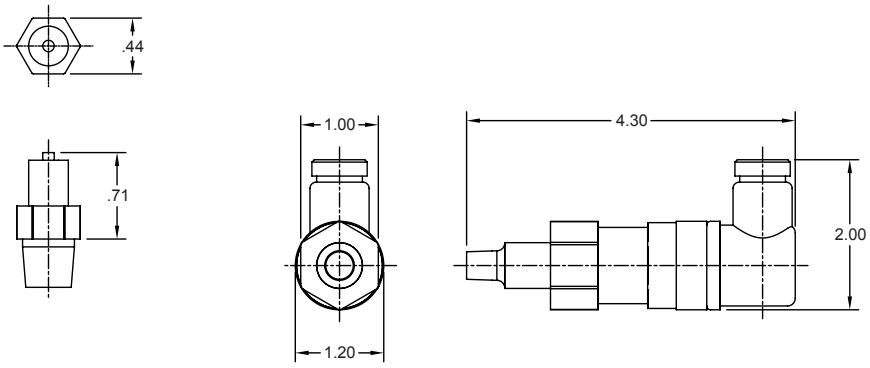
- May be installed on all PIV valves with pressure sensing port
- Provides a means to verify the release of downstream pressure to next obstruction.

Verification Option	Model Number	Inlet Port Size*	List Price
Pop-Up Indicator	PIV-POI	1/8	$19.65
Pressure Switch	PIV-PS	1/8	117.75

* NPT port threads.



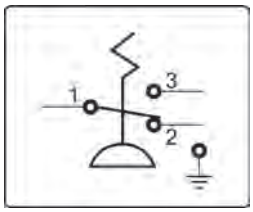
Pop-Up Indicator **Pressure Switch**



Pressure Switch Specifications

Parameters	Specifications
Maximum Operating Pressure	600 psig (41 bar)
Set Point Tolerance	±1 psi or 5% (.07 bar)
Diaphragm Material	Buna N
Proof Pressure	1800 psi (124 bar)
Differential	8-16%
Current Rating	5 A @ 250 VAC 5 A @ 30 VDC (Resistive)
Media Connection (2)	1/8" NPT Male
Circuit Form (C)	DT (Single Pole - Double Throw)
Electrical Connection (HR)	DIN43650A

Wiring Diagram



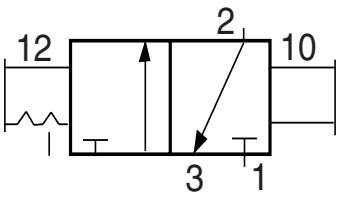
PIV Sensing Port

PIV Sensing Port - Bimba Pneumatic Isolation Valves are provided with 1/8 NPT sensing ports, enabling installation of a pressure sensing device such as the Pop-Up Indicator or Pressure Switch shown above. Standards suggest that machine design should include a method for verifying the release of energy after lockout.

The Bimba Pop-Up Indicator is constructed for the industrial environment with a brass body and 1/8" NPT connection. It offers 360° visibility and a redundant verification feature. By pushing on the red plunger, the operator can “feel” the presence of pressure and verify that the indicator is performing its sensing function.

The Bimba Pressure Switch offers an electronic pressure sensing option that can be integrated into a safety monitoring system, which confirms energy isolation throughout the circuit.

How it Works



Manual PIV valve shown in the closed position. The valve can only be locked in the closed position.

Push/pull operation - Push the handle inward to exhaust downstream air (lockable in this position). Pull the handle outward to supply air downstream.

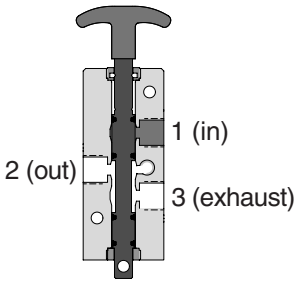
Following any FRL components, an energy isolation valve is usually the first valve in the line supplying compressed air to equipment. The energy isolation valve should provide a quick means of shutting off the supply of air and exhausting the downstream lines.

The Bimba PIV valve has a large red operating handle for high visibility. When the handle is pulled out, there is full line pressure. A short, full inward push of the handle closes off the flow of air, and quickly exhausts the pressure in the downstream line. This action is swift and doesn't require a difficult, slow, or confusing twisting action.

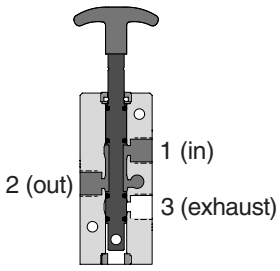
Valve Operation

PIV-20 Series

VALVE CLOSED
When the red handle is pushed inward, the flow of supply air is blocked and downstream air is exhausted via the exhaust port. While servicing or maintaining machinery, the PIV valve should be padlocked in this position to prevent the handle from being pulled outward inadvertently where potential for human injury exists.



VALVE OPEN
When the red handle is pulled outward supply air flows freely from inlet to outlet and flow to exhaust is blocked. A detent keeps the handle in the open position.

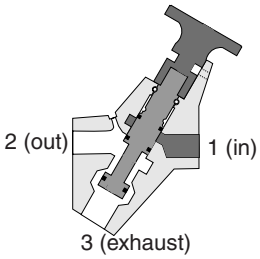


STANDARD SPECIFICATIONS:
Ambient/Media Temperature: 40° to 175°F (4° to 80°C).
Flow Media: Filtered air; 5 micron recommended.
Inlet Pressure: 15 to 145 psig (1 to 10 bar).
Port Threads: NPT standard.
Lock Hole Diameter: 0.27 inch (7.06 mm).
Length of Hole: 0.43 inch (10.92 mm).
NOTE: Per specifications and regulations, these products are defined as energy isolation devices, **NOT AS EMERGENCY STOP DEVICES.**

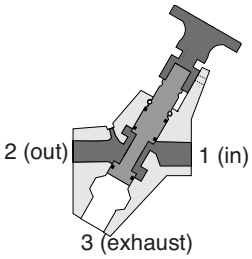
Valve Operation

PIV-60 Series

VALVE CLOSED
With a short push of the red handle inward, the flow of supply air is blocked and downstream air is exhausted via the exhaust port at the bottom of the valve. The PIV valve should be padlocked in this position to prevent the handle from being pulled outward inadvertently where potential for human injury exists or while servicing machinery.



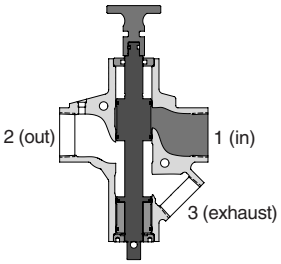
VALVE OPEN
When the red handle is pulled out, supply air flows freely from inlet to outlet and flow to exhaust is blocked. A detent keeps the handle in the open position. The handle is not designed to be locked in this position, thereby providing for ready shut-off when necessary.



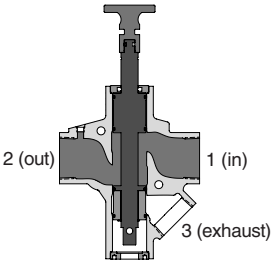
STANDARD SPECIFICATIONS:
Ambient/Media Temperature: 40° to 175° F (4° to 80° C).
Flow Media: Filtered air; 5 micron filter recommended.
Inlet Pressure: 15 to 300 psig (1 to 20 bar).
Port Threads: NPT standard.
NOTE: Per specifications and regulations, these products are defined as energy isolation devices, **NOT AS EMERGENCY STOP DEVICES.**

PIV-70 Series

VALVE CLOSED
With a short push of the red handle inward, the flow of supply air is blocked and downstream air is exhausted via the exhaust port while servicing or maintaining machinery. Padlock the PIV valve in this position to prevent the handle from being pulled outward inadvertently to avoid potential for human injury while servicing machinery.



VALVE OPEN
When the red handle is pulled out, supply air flows freely from inlet to outlet and flow to exhaust is blocked. A detent keeps the handle in the open position. The handle is not designed to be locked in this position, thereby providing for ready shut-off when necessary.



STANDARD SPECIFICATIONS:
Ambient/Media Temperature: 40° to 175°F (4° to 80°C).
Flow Media: Filtered air; 5 micron recommended.
Inlet Pressure: 15 to 300 psig (1 to 20 bar).
Port Threads: NPT standard.
Lock Hole Diameter: 0.38 inch (9.6 mm).
Length of Hole: 0.75 inch (19.1 mm).
NOTE: Per specifications and regulations, these products are defined as energy isolation devices, **NOT AS EMERGENCY STOP DEVICES.**

Guidelines for a Safe Workplace

Referenced Standards:

All standards are subject to revision. Parties are encouraged to investigate and apply the most recent editions of the standards indicated below.

OSHA 29 CFR 1910.147
CSA Z142-02
CSA Z460-05
ISO 13849-1
ISO 14118:2000
EN 1037
ANSI/ASSE Z244.1-2003
ANSI/PMMI B155.1-2006

What does this regulation cover?

In general terms, the rule requires that energy sources (pneumatic, electric, hydraulic, etc.) be shut off or disconnected while equipment is being serviced. Furthermore, the disconnected valve or switch must be locked to prevent reactivation while anyone is working on the equipment.

In the case of air-operated equipment, a lockout valve must be used to cut off the air supply to the equipment and exhaust any stored or residual downstream air. (OSHA Regulation 29 CFR 1910.147 lists a number of requirements for the control of hazardous energy sources.) In addition, Bimba PIV products assist manufacturers in complying with European regulation ***EN 1037*** (Safety of Machinery). For complete information, please read the entire regulations.

Does this regulation apply to you?

An estimated 631,000 businesses are affected by this OSHA regulation. The majority of those affected are in the manufacturing and servicing industries. Among individual workers, equipment operators and those performing service on equipment are at the greatest risk of injury. Workers involved with packaging equipment, presses, and conveyor systems are also said to be at high risk.

Who benefits?

The Secretary of Labor says the procedures were developed to protect 39 million American workers from injury, and more than six percent of all workplace deaths can be eliminated in the affected industries. Statistics indicate that implementation of the regulation could prevent 120 deaths and 60,000 injuries annually.

How can this regulation be addressed?

The rule requires equipment to have “energy isolation devices” (to isolate the equipment from its energy sources), and that such devices be capable of being locked in the “off” position. Formal procedures must be established to de-energize the equipment, isolate it, and ensure that any stored energy (for example, air pressure trapped downstream in a system) has been dissipated. Employee training in these procedures is mandatory.

If your company uses pneumatically-controlled equipment, or if you are a manufacturer of pneumatically operated equipment, OSHA rules can have a substantial effect on your business. As an employer, compliance may involve modifications to the air control systems for equipment in your plant. As a manufacturer, the new machines or equipment you deliver should include lockout-and-exhaust devices as a part of your standard package.

Guidelines for a Safe Workplace

Key points regarding the control of pneumatic energy:

- **Shut-off valve required**

  Each piece of equipment must have a shut-off valve to isolate the equipment from its air supply and so render the equipment inoperative.

- **Shut-off valve should be lockable**

  The valve is lockable if it is designed to allow the use of a padlock to keep the valve in the closed position.

- **Pressurized downstream air must be relieved**

  In addition to locking out the air supply, all downstream air must be depressurized by providing an exhaust to atmosphere. Workers must also verify isolation and de-energizing, while being certain there is no reaccumulation of pressurized air during service or maintenance activities.

- **"Tagout" may replace "lockout" only under certain circumstances**

  (1) If energy isolation device cannot be locked out;

  (2) If employer shows that tagout provides safety equivalent to lockout. Whenever major replacement, repair, renovation, or modification of equipment is performed, or when new equipment is installed, energy isolating devices for such equipment must be designed to accept a lockout device.

The Bimba PIV Advantage

FEATURES	BENEFITS
• Teflon Seals Standard	• Competitor's nitrile seals can extrude into the bore and stick; Teflon insures easy motion even after long periods of non-use.
• Integral Pressure Sensing Port	• ANSI/PMMI compliance; competitors need to "T" the line and add additional components.
• Highest Flow Rates	• Quicker exhaust means more machine "up time."
• Push/Pull Activation	• Easy operation (ANSI/PMMI)
• Valve can only be locked in the "Off" position	• ANSI/PMMI compliance; competitive rotary models can be locked in the partially "on" position which is a safety hazard and not in compliance with existing standards.
• Full or oversized exhaust ports	• ANSI/PMMI compliance requires the exhaust port size to be greater than or equal to the supply port size. Many competitors have exhaust ports smaller than their supply ports.