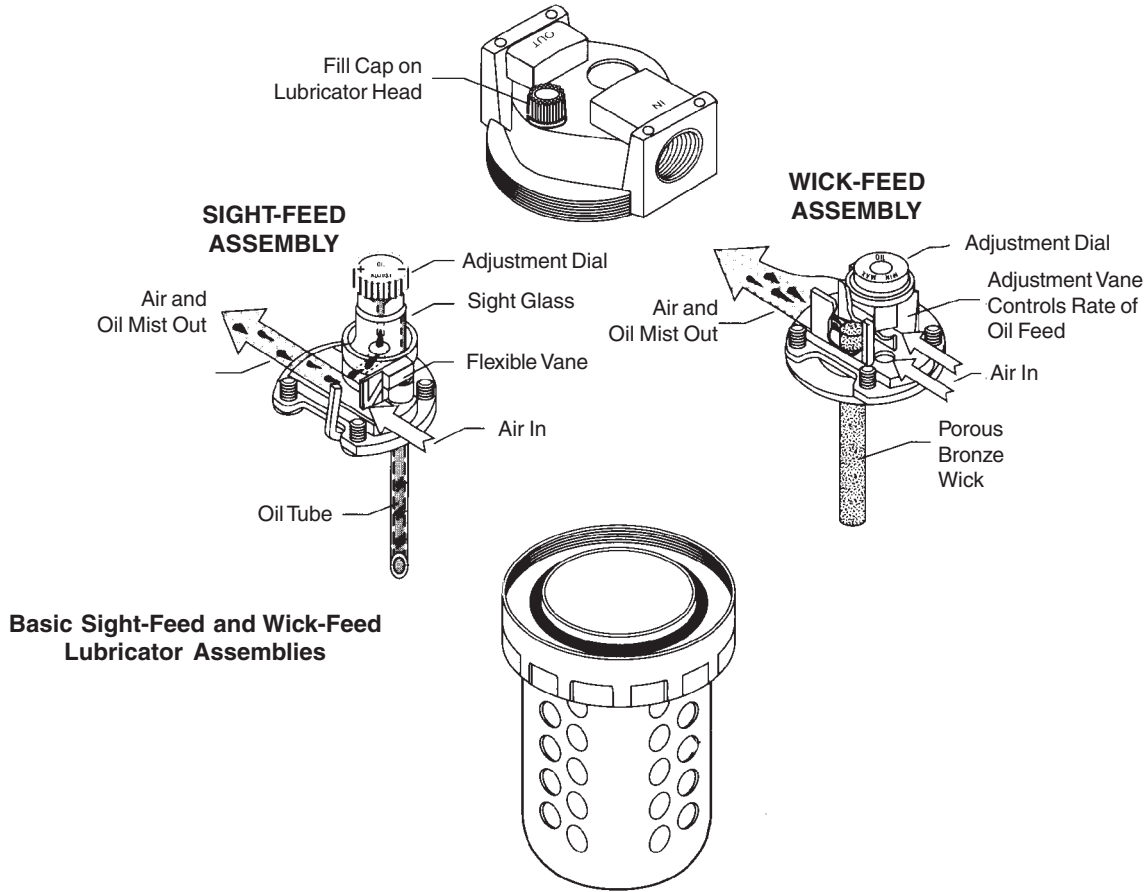


AIR LINE LUBRICATOR Instructional Information



Basic Sight-Feed and Wick-Feed Lubricator Assemblies

MD4™ LUBRICATORS

Port sizes 3/8, 1/2, 3/4. Sight-feed design and modular or inline mounting. Zinc head. Aluminum bowl with clear nylon sight glass. Air flow to 170 scfm (80 l/s). 9-ounce (270-ml) and 15-ounce (450-ml) bowls.

FULL-SIZE LUBRICATORS

Port sizes 1/4, 3/8, 1/2. Either wick-feed or sight-feed design; modular or inline mounting. Air flows up to 140 scfm (66 l/s). Zinc head. Polycarbonate bowl with steel shatterguard or zinc bowl. 8-ounce (240-ml) zinc bowls.

HIGH-CAPACITY LUBRICATORS

Port sizes 3/4 to 1-1/2. Either wick-feed or sight-feed design; inline mounting only. Air flows up to 500 scfm (235 l/s). Aluminum head. Polycarbonate bowl with steel shatterguard or aluminum bowl. 16-ounce (480-ml), 35-ounce (1030-ml), or 62-ounce (1830-ml) bowls.

MD4™

Port sizes 3/8, 1/2, 3/4. Sight-feed design and modular or inline mounting. 9-ounce or 15-ounce capacity polycarbonate bowl with steel shatterguard; optional aluminum bowl with clear nylon sight glass. Air flow to 205 scfm.



BANTAM Modular Lubricators

Ports: 1/8 & 1/4 and Tube Fittings
Flow to 25 scfm



STANDARD SPECIFICATIONS

Ambient/Media Temperature: 40° to 125°F (4° to 52°C).

Body: Acetal.

Bowl: 2-ounce (60-ml) capacity polycarbonate plastic; optional aluminum bowl.

Fluid Media: Compressed air.

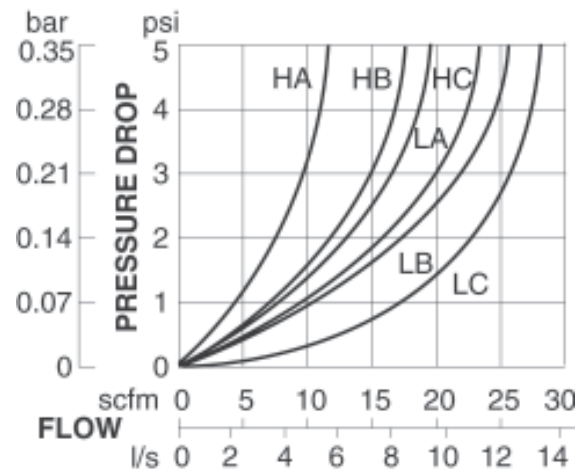
Inlet Pressure: 150 psig (10 bar) maximum.

Oil Adjustment: External, no shutoff.

Seals: Nitrile.

FEATURES:

- Modular assembly and mounting.
- Threaded ports or quick-connect fittings for tubing up to 10 mm in diameter.
- Wick-feed design.
- NPTF port threads; optional BSPP threads.



H: High Oil Delivery

L: Low Oil Delivery

A: Wick Up

B: Wick Down 1 Groove

C: Wick Down 2 Grooves

Inlet Pressure: 100 psig (7 bar)

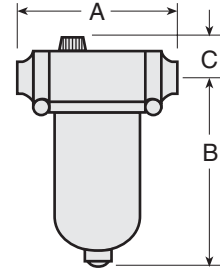
Minimum Flow: 1 scfm (0.47 l/s)

BANTAM Modular Lubricators

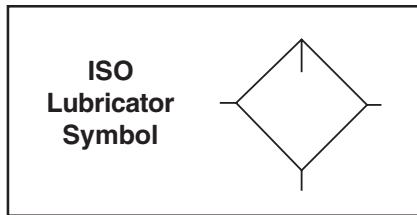
Ports: 1/8 & 1/4 and Tube Fittings Flow to 25 scfm

DIMENSIONS inches (mm)

Ports	A	B †	C	Depth	Weight lb (kg)
No Port	1.7 (43)	3.6 (91)	0.9 (22)	1.8 (45)	0.17 (0.08)
1/8, 1/4	3.0 (76)	3.6 (91)	0.9 (22)	1.8 (45)	0.37 (0.17)
Models below have quick-connect fittings for tubing.					
1/4	3.4 (86)	3.6 (91)	0.9 (22)	1.8 (45)	0.37 (0.17)
3/8	3.9 (99)	3.6 (91)	0.9 (22)	1.8 (45)	0.37 (0.17)
4 mm	3.4 (86)	3.6 (91)	0.9 (22)	1.8 (45)	0.37 (0.17)
6 mm	3.4 (86)	3.6 (91)	0.9 (22)	1.8 (45)	0.37 (0.17)
8 mm	3.1 (79)	3.6 (91)	0.9 (22)	1.8 (45)	0.37 (0.17)
10 mm	3.9 (99)	3.6 (91)	0.9 (22)	1.8 (45)	0.37 (0.17)



† Dimension is for plastic bowl; metal bowl is 3.8 (97).



Port Size	Air Flow scfm (l/s)	Models with Pipe Ports*		Models with Tube Fittings*	
		Plastic Bowl	Metal Bowl	Plastic Bowl	Metal Bowl
1/8	1-25 (.5-12)	5B01B0005	5B01B0006	—	—
1/4	1-25 (.5-12)	5B02B0005	5B02B0006	5B03B0005	5B03B0006
3/8	1-25 (.5-12)	—	—	5B04B0005	5B04B0006
4mm	1-25 (.5-12)	—	—	5B05B0005	5B05B0006
6mm	1-25 (.5-12)	—	—	5B06B0005	5B06B0006
8mm	1-25 (.5-12)	—	—	5B07B0005	5B07B0006
10mm	1-25 (.5-12)	—	—	5B08B0005	5B08B0006

* To order a lubricator with quick-fill cap, add 2 to the last digit in the model number, e.g., model 5B01B0005 with quick-fill cap becomes model number 5B01B0007.

NOTE: For BSPP threads, add the letter "C" in front of the part number.

MINIATURE Lubricators

Ports: 1/8 & 1/4
Flow to 25 scfm



STANDARD SPECIFICATIONS

Ambient/Media Temperature:

Plastic bowl: 40° to 125°F (4° to 52°C).
 Metal bowl: 40° to 150°F (4° to 66°C).

Body: Aluminum.

Bowl: 2-ounce (60-ml) capacity polycarbonate plastic; optional aluminum bowl.

Fluid Media: Compressed air.

Inlet Pressure:

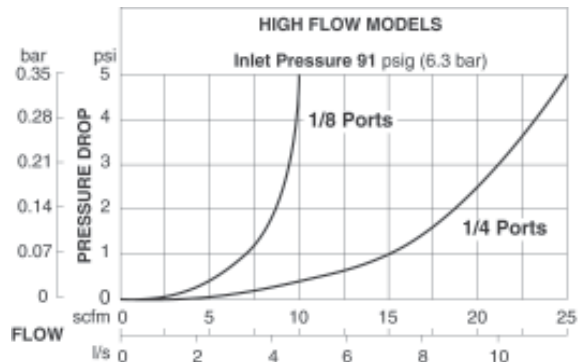
Plastic bowl: 150 psig (10 bar) maximum.
 Metal bowl: 200 psig (14 bar) maximum.

Oil Adjustment: Internal, tamper-proof.

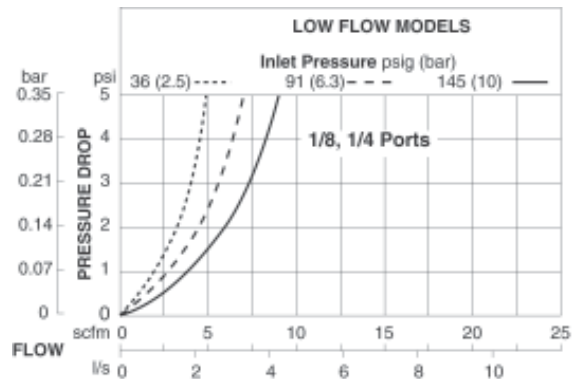
Seals: Nitrile.

FEATURES:

- Inline mounting.
- High-strength polycarbonate plastic bowl; optional aluminum bowl.
- Low-flow models are designed to deliver oil in extremely low-flow (less than 1 scfm) situations.
- Wick-feed design in both high-flow and low-flow lubricators.
- Internal tamper-resistant adjustment.
- NPTF port threads; optional BSPP threads.



Minimum Flow: 1/8 port, 2 scfm (0.94 l/s)
 1/4 port, 6 scfm (2.8 l/s)



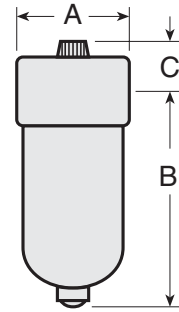
Minimum Flow: 1 scfm (0.47 l/s)

MINIATURE Lubricators

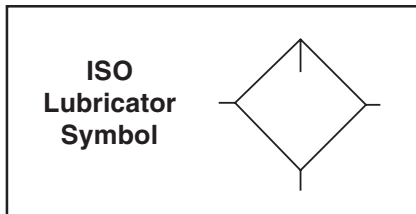
Ports: 1/8 & 1/4
Flow to 25 scfm

DIMENSIONS inches (mm)

Bowl	A	B	C	Depth	Weight lb (kg)
Plastic	1.6 (41)	3.6 (91)	0.7 (17)	1.6 (41)	0.21 (0.10)
Metal	1.6 (41)	3.8 (97)	0.7 (17)	1.6 (41)	0.21 (0.10)



See Compatible Lubricants and CAUTIONS about polycarbonate plastic bowls on page 131.



Port Size	Type	Model Numbers*		Reservoir ounces (ml)
		Plastic Bowl	Metal Bowl	
1/8	High Flow	5111B1010	5112B1010	2.0 (59)
	Low Flow	5111B1012	5112B1012	2.0 (59)
1/4	High Flow	5111B2010	5112B2010	2.0 (5.9)
	Low Flow	5111B2012	5112B2012	2.0 (5.9)

*To order a lubricator with quick-fill cap, change the third digit from the end of the model number from "0" to "1," e.g., model 5111B1010 with quick-fill cap becomes model 5111B1110.

NOTE: For BSPP threads, add the letter "C" in front of the part number.

MID-SIZE Modular Lubricators

Ports: 1/4, 3/8, 1/2
Flow to 110 scfm



STANDARD SPECIFICATIONS

Ambient/Media Temperature:

Plastic bowl: 40° to 125°F (4° to 52°C).

Metal bowl: 40° to 175°F (4° to 79°C).

Body: Zinc.

Bowl: 4-ounce (120-ml) polycarbonate plastic with zinc shatterguard; optional zinc bowl.

Fluid Media: Compressed air.

Inlet Pressure:

Plastic bowl: 150 psig (10 bar) maximum.

Metal bowl: 200 psig (14 bar) maximum.

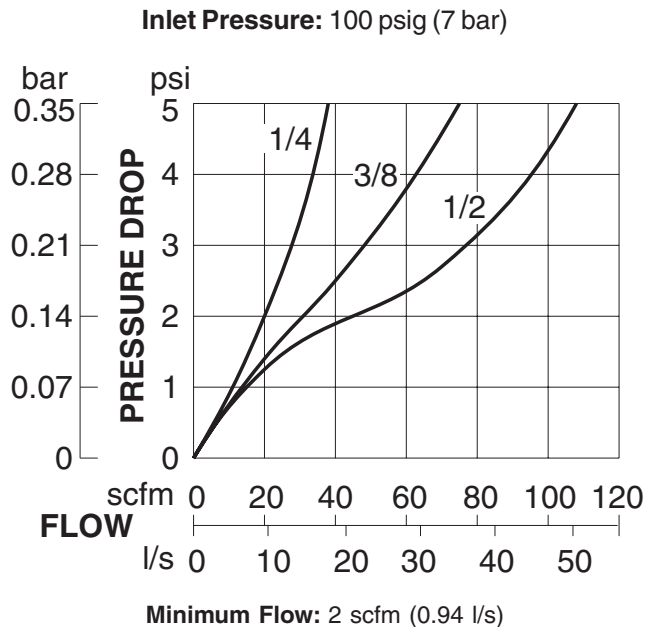
Oil Adjustment: External, tamper-resistant.

Sight Dome: Nylon.

Seals: Nitrile.

FEATURES:

- Modular or inline mounting.
- High-strength polycarbonate plastic bowl with zinc shatterguard. Optional zinc bowl.
- Sight-feed design.
- External tamper-resistant adjustment.
- NPTF port threads; optional SAE or BSPP threads.

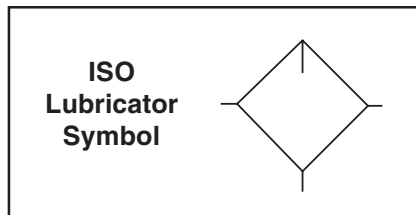
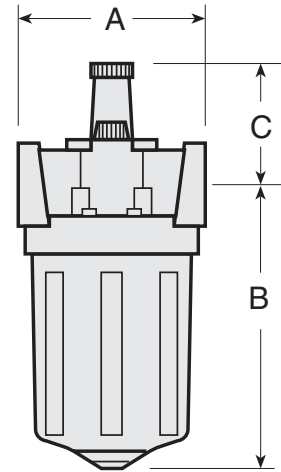


MID-SIZE Modular Lubricators

Ports: 1/4, 3/8, 1/2
Flow to 110 scfm

DIMENSIONS inches (mm)

Bowl	A	B	C	Weight	
				Depth	lb (kg)
Plastic	2.7 (68)	4.1 (103)	1.8 (46)	2.4 (60)	1.06 (0.48)
Metal	2.7 (68)	4.1 (103)	1.8 (46)	2.4 (60)	1.50 (0.68)



Port Size	Type	Air Flow scfm (l/s)	Model Numbers*		Reservoir ounces (ml)
			Plastic Bowl	Metal Bowl	
1/4	Sight-feed	2-40 (1-19)	5111B2007	5112B2007	4.0 (118)
3/8	Sight-feed	2-75 (1-35)	5111B3007	5112B3007	4.0 (118)
1/2	Sight-feed	2-110 (1-52)	5111B4007	5112B4007	4.0 (118)

*To order a lubricator with quick-fill cap, change the third digit from the end of the model number from "0" to "1," e.g., model 5111B2007 with quick-fill cap becomes model 5111B2107.

NOTE: For BSPP threads, add the letter "C" in front of the part number.

FULL-SIZE Lubricators

Ports: 1/4, 3/8, 1/2, 3/4
Flow to 140 scfm



FEATURES:

- Modular or inline mounting.
- High-strength polycarbonate plastic bowl with steel shatterguard. Optional zinc bowl with sight glass.
- Sight-feed or wick-feed design.
- External adjusting knob; removable for tamper resistance.
- NPTF port threads; optional SAE or BSPP threads.

STANDARD SPECIFICATIONS

Ambient/Media Temperature:

Plastic bowl: 40° to 125°F (4° to 52°C).
Metal bowl: 40° to 175°F (4° to 79°C).

Adjusting Knob: Acetal.

Body: Zinc.

Bowl: 8-ounce (240-ml) capacity polycarbonate plastic with steel shatterguard; optional zinc bowl with sight glass.

Bowl Ring: Aluminum.

Fluid Media: Compressed air.

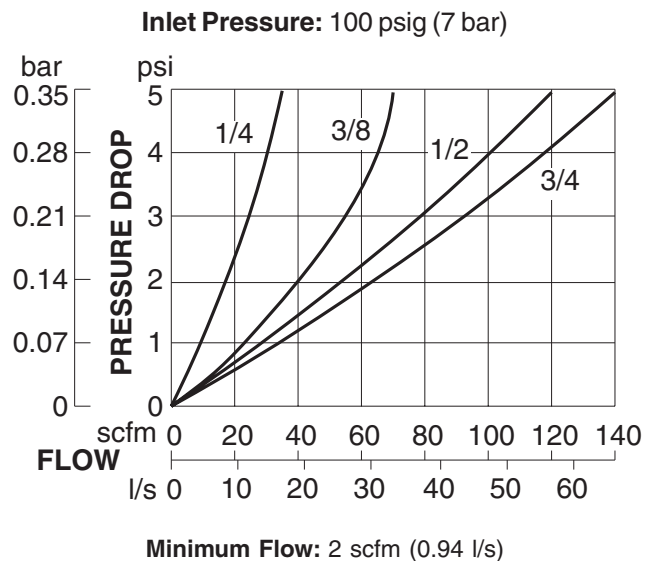
Inlet Pressure:

Plastic bowl: 150 psig (10 bar) maximum.
Metal bowl: 200 psig (14 bar) maximum.

Oil Adjustment: External, tamper-resistant.

Seals: Nitrile.

Sight Dome: Nylon.



FULL-SIZE Lubricators

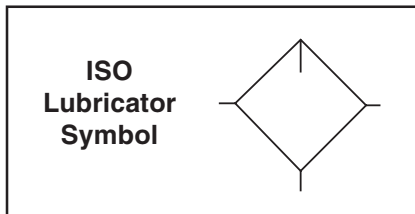
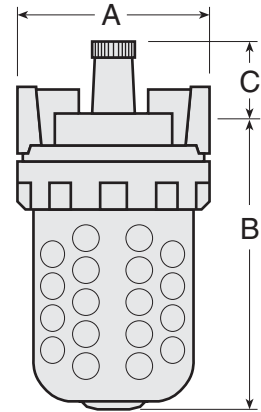
Ports: 1/4, 3/8, 1/2, 3/4
Flow to 140 scfm

Sight-Feed Design DIMENSIONS inches (mm)

Bowl	A	B	C	Depth	Weight lb (kg)
Standard Plastic	3.5 (89)	5.2 (132)	1.3 (32)	3.5 (89)	2.06 (0.94)
Standard Metal	3.5 (89)	5.3 (135)	1.3 (32)	3.5 (89)	2.90 (1.32)

Wick-Feed Design DIMENSIONS inches (mm)

Bowl	A	B	C	Depth	Weight lb (kg)
Standard Plastic	3.5 (89)	5.2 (132)	0.7 (17)	3.5 (89)	2.25 (1.02)
Standard Metal	3.5 (89)	5.3 (135)	0.7 (17)	3.5 (89)	2.85 (1.30)



Port Size	Air Flow scfm (l/s)	Sight-feed Models*		Wick-feed Models*		Reservoir Ounces (ml)
		Plastic Bowl**	Metal Bowl	Plastic Bowl**	Metal Bowl	
1/4	35 (18)	5111B2008	5112B2008	—	—	8.0 (236)
1/4	35 (18)	—	—	5111B2014	5112B2014	8.0 (236)
3/8	68 (33)	5111B3008	5112B3008	—	—	8.0 (236)
3/8	68 (33)	—	—	5111B3014	5112B3014	8.0 (236)
1/2	120 (57)	5111B4008	5112B4008	—	—	8.0 (236)
1/2	120 (57)	—	—	5111B4014	5112B4014	8.0 (236)
3/4	140 (65)	5111B5008	5112B5008	—	—	8.0 (236)
3/4	140 (65)	—	—	5111B5014	5112B5014	8.0 (236)

*To order a lubricator with quick-fill cap, change the third digit from the end of the model number from "0" to "1," e.g., model 5111B2008 with quick-fill cap becomes model 5111B2108.

** Plastic bowl includes metal bowl guard.

NOTE: For BSPP threads, add the letter "C" in front of the part number.

MD4™ Modular Lubricators

Ports: 3/8, 1/2, 3/4
Flow to 205 scfm



STANDARD SPECIFICATIONS

Ambient/Media Temperature:

Plastic bowl: 40° to 125°F (4° to 52°C).

Metal bowl: 40° to 175°F (4° to 79°C).

Body: Zinc.

Bowl: 9-ounce (270-ml) capacity polycarbonate plastic with steel shatterguard; optional aluminum bowl with clear nylon sight glass. Optional 15-ounce (450-ml) extended aluminum bowl with two clear nylon sight glass.

Bowl Ring: Nylon.

Cap Color: Gold. Gray, yellow, red, and blue optional.

Fluid Media: Compressed air.

Inlet Pressure:

Plastic bowl: 150 psig (10 bar).

Metal bowl: 200 psig (14 bar).

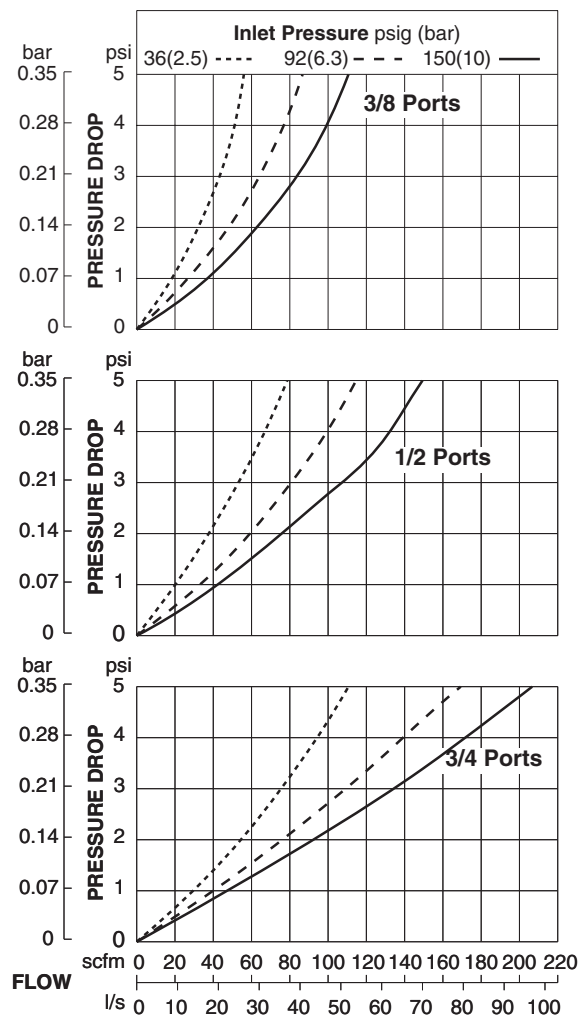
Oil Adjustment: External; tamper resistant.

Seals: Nitrile.

Sight-Feed Dome: Nylon.

FEATURES:

- Modular or inline mounting.
- Sight-feed design; transparent dome shows how much oil is being dispensed.
- External adjusting knob, removable for tamper resistance.
- Polycarbonate plastic bowl with steel shatterguard; optional aluminum bowl with sight glass.
- Optional extended metal bowl.
- All working parts can be replaced with a single service cartridge.
- NPTF port threads; optional SAE or BSPP threads.



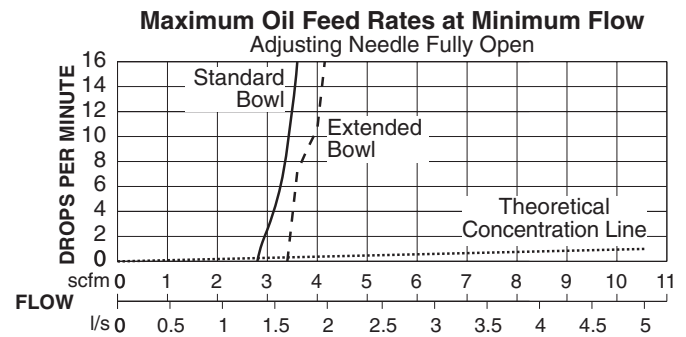
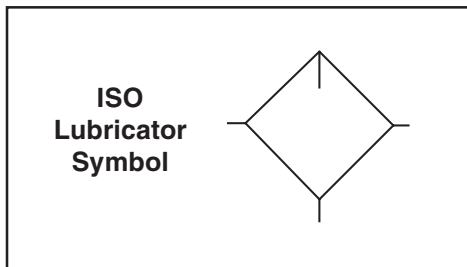
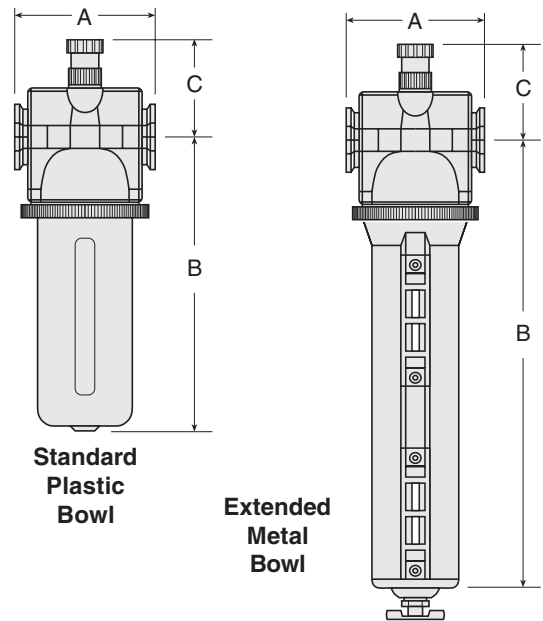
MD4™ Modular Lubricators

Ports: 3/8, 1/2, 3/4
Flow to 205 scfm

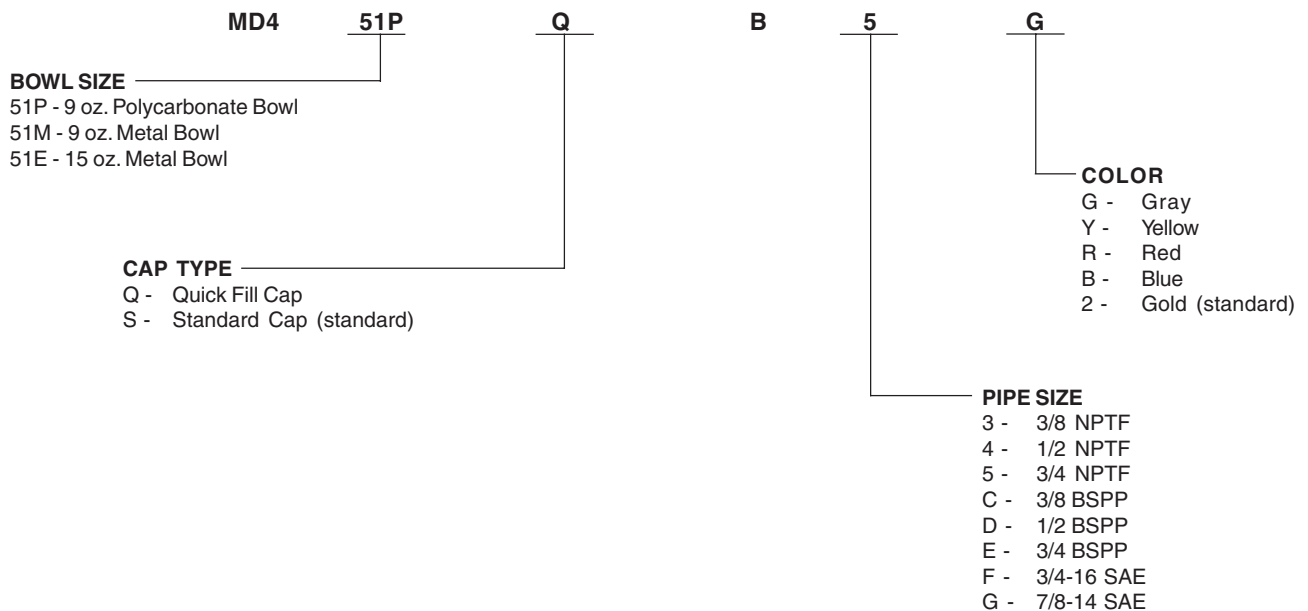
DIMENSIONS inches (mm)

Bowl	A	B †	C	Depth	Weight lb (kg)
9-ounce Plastic	3.5 (88)	7.1 (179)	2.2 (56)	2.9 (73)	2.0 (0.91)
9-ounce Metal	3.5 (88)	7.4 (188)	2.2 (56)	3.1 (79)	2.0 (0.91)
Extended Metal	3.5 (88)	10.6 (269)	2.2 (56)	3.1 (79)	2.2 (1.00)

† Bowl removal clearance: add 3.1 (79) for 9-ounce bowl; 6.1 (155) for extended bowl.



ORDERING INFORMATION



HIGH-CAPACITY Lubricators

Ports: 3/4, 1, 1-1/2
Flow to 500 scfm



FIGURE A - With Polycarbonate Bowl



FIGURE B - With Metal Bowl

FEATURES:

- Inline mounting.
- High-strength polycarbonate plastic bowl with steel shatterguard. Optional aluminum bowl with sight glass.
- Sight-feed or wick-feed design.
- External adjusting knob; removable for tamper resistance (sight-feed).
- Internal adjustment (wick-feed).
- NPTF port threads; optional SAE or BSPP threads.

STANDARD SPECIFICATIONS

Ambient/Media Temperature:

Plastic bowl: 40° to 125°F (4° to 52°C).
 Metal bowl: 40° to 175°F (4° to 79°C).

Body: Aluminum.

Bowl (FIGURE A): 16-ounce (480-ml) capacity polycarbonate plastic with steel shatterguard. Optional aluminum bowl with sight glass.

Bowl (FIGURE B): 35-ounce (1030-ml) aluminum bowl with sight glass or optional ext. metal bowl. 62-ounce (1830-ml) with two sight glasses.

Bowl Ring: Aluminum.

Fluid Media: Compressed air.

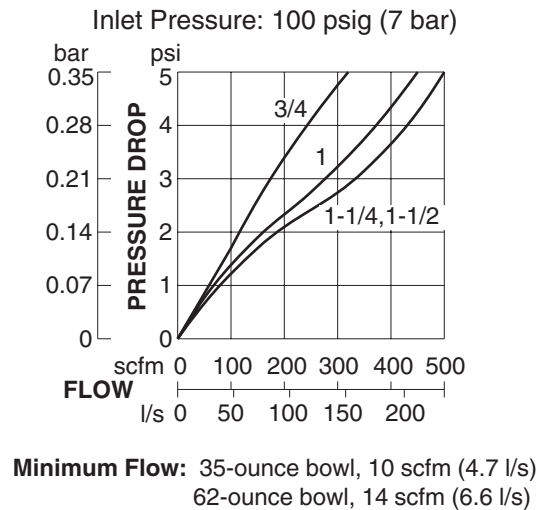
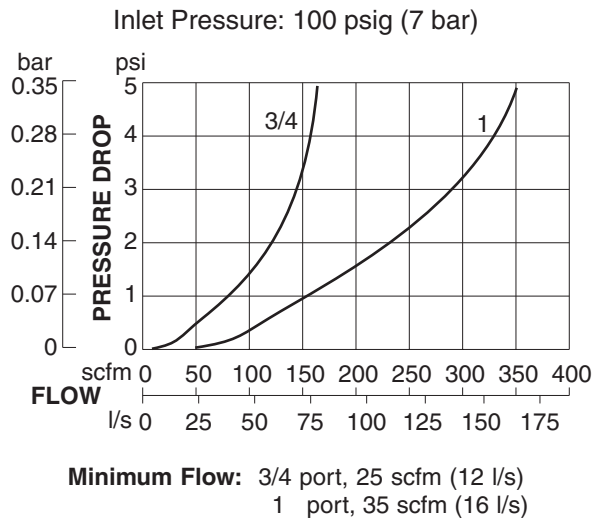
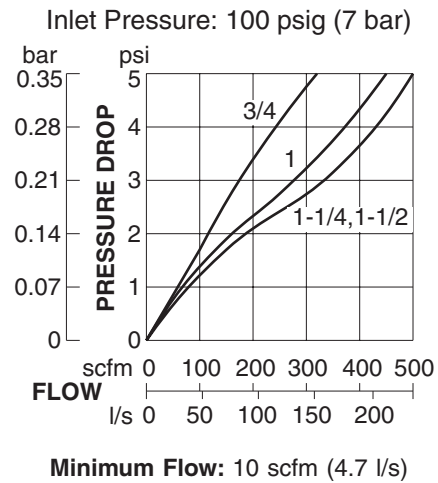
Inlet Pressure:

Plastic bowl: 150 psig (10 bar) maximum.
 Metal bowl: 200 psig (14 bar) maximum.

Oil Adjustment: External, tamper-resistant or internal.

Seals: Nitrile.

Sight Dome: Nylon.

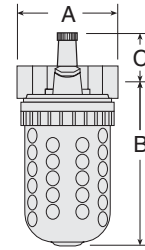


HIGH-CAPACITY Lubricators

Ports: 3/4, 1, 1-1/2
Flow to 500 scfm

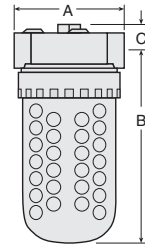
DIMENSIONS inches (mm) Sight-feed, 16 oz.

Bowl	A	B	C	Depth	Weight lb (kg)
Plastic	4.6 (118)	8.2 (208)	1.4 (37)	4.2 (106)	2.63 (1.21)
Metal	4.6 (118)	7.3 (185)	1.4 (37)	4.2 (106)	2.85 (1.30)



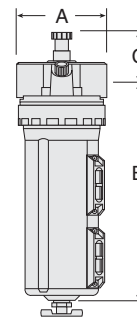
DIMENSIONS inches (mm) Wick-feed, 16 oz.

Bowl	A	B	C	Depth	Weight lb (kg)
Plastic	4.3 (108)	7.7 (195)	0.8 (21)	4.3 (108)	2.88 (1.31)
Metal	4.3 (108)	8.2 (208)	0.8 (21)	4.3 (108)	3.00 (1.36)

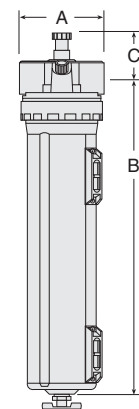


DIMENSIONS inches (mm) Sight-feed, 35 oz.

Port	A	B	C	Depth	Weight lb (kg)
3/4	4.3	10.2	2.0	4.2	2.56
1	(108)	(259)	(51)	(106)	(1.16)
1-1/4	4.3	10.6	1.6	4.2	2.56
1-1/2	(108)	(268)	(41)	(106)	(1.16)



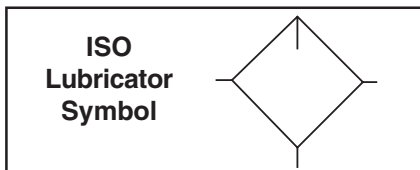
Standard Bowl



Extended Bowl

The following have extended bowls 62 oz. (1830-ml)

3/4	4.3	15.8	2.0	4.2	3.38
1	(108)	(400)	(51)	(106)	(1.64)
1-1/4	4.3	16.1	1.6	4.2	3.38
1-1/2	(108)	(410)	(41)	(106)	(1.64)



Sight-feed Models*

Wick-feed Models*

Port Size	Plastic Bowl**	Metal Bowl	Plastic Bowl**	Metal Bowl	Reservoir Ounces (ml)
3/4	5111B5009	5112B5009	5111B5011	5112B5011	16
	—	5112B5019	—	—	35
	—	5112B5029	—	—	62
1	5111B6009	5112B6009	5111B6011	5112B6011	16
	—	5112B6019	—	—	35
	—	5112B6029	—	—	62
1-1/4	5111B7009	5112B7009	—	—	16
	—	5112B7019	—	—	35
	—	5112B7029	—	—	62
1-1/2	5111B8009	5112B8009	—	—	16
	—	5112B8019	—	—	35
	—	5112B8029	—	—	62

*To order a lubricator with quick-fill cap, change the third digit from the end of the model number from "0" to "1," e.g., model 5111B5009 with quick-fill cap becomes model 5111B5109.

** Plastic bowl includes metal bowl guard.

NOTE: For BSP threads, add the letter "C" in front of the part number.



BANTAM Modular FRLs

Integrated Filter/Regulator plus Lubricator

Ports: 1/8 & 1/4 and Tube Fittings

Flow to 23 scfm



STANDARD SPECIFICATIONS

Ambient/Media Temperature:

40° to 125°F (4° to 52°C).

Bowls: 2-ounce (60-ml) capacity polycarbonate plastic bowls or aluminum bowls.

Filter Drain: Internal automatic drain; optional manual drain.

Filter Element: 5- μ m-rated polyethylene.

Filter/Regulator & Lubricator Bodies: Acetal.

Fluid Media: Compressed air.

Inlet Pressure:

15 psig (1 bar) minimum with automatic drain.
150 psig (10 bar) maximum.

Oil Adjustment: External, no shutoff.

Outlet Pressure: Adjustable up to 100 psig (7 bar).

Pressure Gauge: 0 to 160 psig (10.3 bar);
1/8 NPT gauge ports front and rear.

Panel Mounting: 1-3/16 inch (30 mm) hole required.

Regulator Dome and Knob: Acetal.

Seals: Nitrile.

FEATURES:

- Filter and regulator consolidated in a single assembly; wick-feed lubricator.
- Modular assembly and mounting.
- Threaded ports or quick-connect fittings for tubing up to 10 mm in diameter.
- 5- μ m-rated polyethylene filter element.
- High-strength polycarbonate plastic bowls or aluminum bowls.
- Internal automatic filter drain; optional manual drain.
- Piston-type regulator or diaphragm-type.
- Self-relieving regulator; non-relieving optional.
- Pressure gauge.
- NPTF port threads; optional BSPP threads.

AIR FLOW DATA

See *Flow Charts* for individual assembly components on preceding pages.

BANTAM Modular FRLs

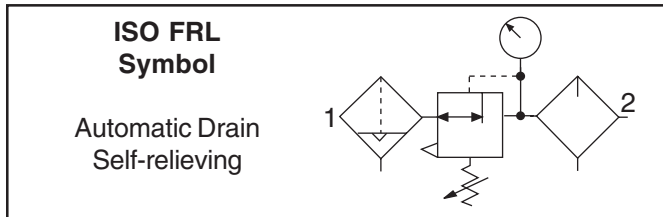
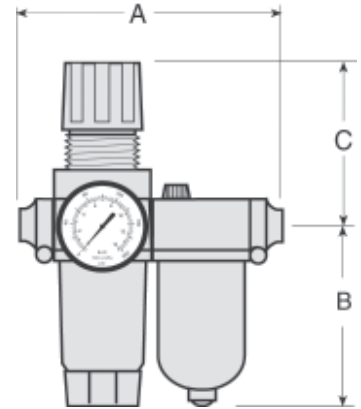
Integrated Filter/Regulator plus Lubricator

Ports: 1/8 & 1/4 and Tube Fittings
Flow to 23 scfm

DIMENSIONS inches (mm)

Ports	A	B	C	Depth †	Weight lb (kg)
1/8, 1/4	4.6 (117)	3.6 (92)	2.6 (67)	1.8 (45)	0.57 (0.32)
Models below have quick-connect fittings for tubing.					
1/4	5.0 (127)	3.6 (92)	2.6 (67)	1.8 (45)	0.55 (0.31)
3/8	5.6 (142)	3.6 (92)	2.6 (67)	1.8 (45)	0.55 (0.31)
4 mm	5.1 (130)	3.6 (92)	2.6 (67)	1.8 (45)	0.55 (0.31)
6 mm	5.1 (130)	3.6 (92)	2.6 (67)	1.8 (45)	0.55 (0.31)
8 mm	4.7 (120)	3.6 (92)	2.6 (67)	1.8 (45)	0.55 (0.31)
10 mm	5.6 (142)	3.6 (92)	2.6 (67)	1.8 (45)	0.55 (0.31)

† Less gauge.



REPLACEMENT FILTER ELEMENT KIT

Element Type	Kit Number
5-µm polyethylene (Std element)	933K77

PISTON TYPE

Port Size	Automatic Drain Models		Manual Drain Models	
	Plastic Bowl	Metal Bowl	Plastic Bowl	Metal Bowl
THREADED				
1/8	5D01B0115	5D01B0216	5D01B0315	5D01B0416
1/4	5D02B0115	5D02B0216	5D02B0315	5D02B0416
TUBE FITTINGS				
1/4	5D03B0115	5D03B0216	5D03B0315	5D03B0416
3/8	5D04B0115	5D04B0216	5D04B0315	5D04B0416
4mm	5D05B0115	5D05B0216	5D05B0315	5D05B0416
6mm	5D06B0115	5D06B0216	5D06B0315	5D06B0416
8mm	5D07B0115	5D07B0216	5D07B0315	5D07B0416
10mm	5D08B0115	5D08B0216	5D08B0315	5D08B0416

Change the ninth digit to "7" for quick fill lubricator cap e.g. 5D01B0117.
 For diaphragm type regulator, change eighth digit to "2", e.g. 5D01B0125.

NOTE: For BSP threads, add the letter "C" in front of the part number.



MINIATURE FRLs

Integrated Filter/Regulator plus Lubricator

Ports: 1/8 & 1/4
Flow to 24 scfm



- Filter and regulator consolidated in a single assembly; wick-feed lubricator.
- Inline mounting.
- 5- μ m-rated polyethylene filter element.
- High-strength polycarbonate plastic bowls or aluminum bowls.
- Internal automatic filter drain; optional manual drain.
- Piston-type regulator or diaphragm-type.
- Self-relieving regulator; non-relieving optional.
- Pressure gauge.
- NPTF port threads; optional BSPP threads or fittings for tubing up to 10 mm.

STANDARD SPECIFICATIONS

Ambient/Media Temperature:

Plastic bowls: 40° to 125°F (4° to 52°C).

Metal bowls: 40° to 175°F (4° to 79°C).

Bodies: Aluminum for filter/regulator and lubricator.

Bowls: 2-ounce (60-ml) capacity polycarbonate plastic bowls or aluminum bowls.

Filter Drain: Internal automatic drain; optional manual drain.

Filter Element: 5- μ m-rated polyethylene.

Fluid Media: Compressed air.

Inlet Pressure:

15 psig (1 bar) minimum with automatic drain.

Plastic bowls: 150 psig (10 bar) maximum.

Metal bowls: 200 psig (13.7 bar) maximum.

Oil Adjustment: Internal; tamper-resistant.

Outlet Pressure: Adjustable up to 100 psig (7 bar).

Pressure Gauge: 0 to 160 psig (10.3 bar); 1/8 NPT gauge ports front and rear.

Panel Mounting: 1-3/16 inch (30 mm) hole required.

Regulator Dome and Knob: Acetal.

Seals: Nitrile.

AIR FLOW DATA

See *Flow Charts* for individual assembly components on preceding pages.

MINIATURE FRLs

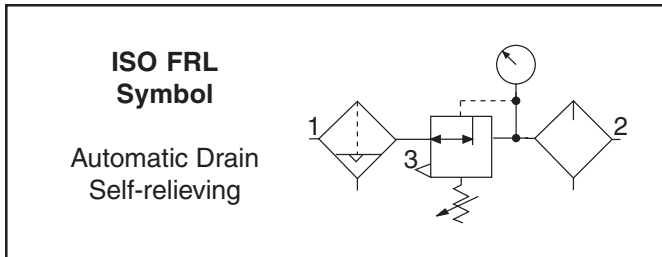
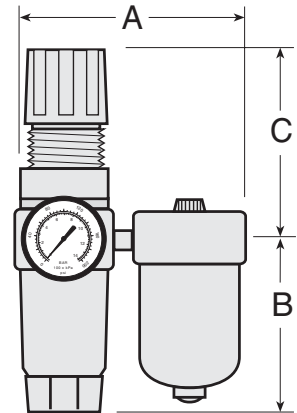
Integrated Filter/Regulator plus Lubricator

Ports: 1/8 & 1/4
Flow to 24 scfm

DIMENSIONS inches (mm)

Bowl	A	B	C	Depth †	Weight lb (kg)
Metal	4.0 (101)	3.8 (97)	2.6 (67)	1.6 (41)	0.66 (0.30)
Plastic	3.7 (94)	3.6 (92)	2.6 (67)	1.6 (41)	0.66 (0.30)

† Less gauge.



REPLACEMENT FILTER ELEMENT KIT

Element Type	Kit Number
5-µm polyethylene (Std element)	933K77

COMBINATION FILTER & REGULATOR* (piston type) & Lubricator** (High Flow)

Port Size	Automatic Drain Models		Manual Drain Models	
	Plastic Bowl	Metal Bowl	Plastic Bowl	Metal Bowl
1/8	5351B1006	5352B1006	5351B1005	5352B1005
1/4	5351B2006	5352B2006	5351B2005	5352B2005

COMBINATION FILTER & REGULATOR* (diaphragm type) & Lubricator** (High Flow)

Port Size	Automatic Drain Models		Manual Drain Models	
	Plastic Bowl	Metal Bowl	Plastic Bowl	Metal Bowl
1/8	5341B1006	5342B1006	5341B1005	5342B1005
1/4	5341B2006	5342B2006	5341B2005	5342B2005

* Regulated pressure 0 - 100 psig (7 bar); gauge included. ** To order the lubricator with a quick-fill cap, change the third digit from the end of the model number from "0" to "1," e.g., model 5351B1006 with quick-fill cap becomes model 5351B1106

Dimensions do not include pressure gauges.

NOTE: For BSPP threads, add the letter "C" in front of the part number.



MID-SIZE Modular FRLs

Integrated Filter/Regulator plus Lubricator

Ports: 1/4, 3/8, 1/2
Flow to 100 scfm



FEATURES:

- Filter and regulator consolidated in a single assembly; sight-feed lubricator.
- Modular or inline mounting.
- 5- μ m-rated polyethylene filter element.
- High-strength zinc bowls or polycarbonate plastic bowls with shatterguard.
- Internal automatic filter drain; optional manual drain.
- Self-relieving piston-type regulator; non-relieving optional.
- Pressure gauge.
- NPTF port threads; optional SAE or BSPP threads.

STANDARD SPECIFICATIONS

Ambient/Media Temperature:

40° to 125°F (4° to 52°C).

With metal bowls: 40° to 175°F (4° to 79°C).

Bodies: Zinc for filter/regulator and lubricator.

Bowls: 4-ounce (120-ml) capacity zinc bowls or polycarbonate plastic bowls with zinc shatterguard.

Filter Drain: Internal automatic drain; optional manual drain.

Filter Element: 5- μ m-rated polyethylene.

Fluid Media: Compressed air.

Inlet Pressure:

15 psig (1 bar) minimum with automatic drain.

150 psig (10 bar) maximum.

With metal bowls: 200 psig (13.7 bar) maximum.

Oil Adjustment: External; tamper-resistant.

Outlet Pressure: Adjustable up to 100 psig (7 bar).

Pressure Gauge: 0 to 200 psig (14 bar); 1/4 NPT gauge ports front and rear.

Panel Mounting: 1-9/16 inch (40 mm) hole required.

Regulator Dome and Knob: Acetal.

Seals: Nitrile.

Sight Dome: Clear nylon.

AIR FLOW DATA

See *Flow Charts* for individual assembly components on preceding pages.

MID-SIZE Modular FRLs

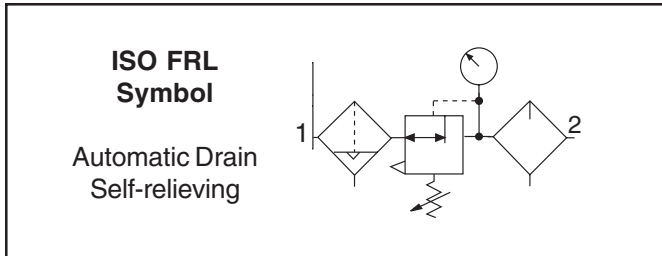
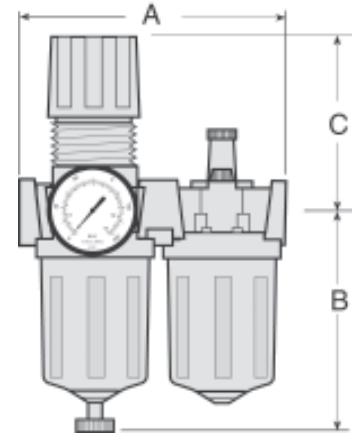
Integrated Filter/Regulator plus Lubricator

Ports: 1/4, 3/8, 1/2
Flow to 100 scfm

DIMENSIONS inches (mm)

Bowl	A	B	C	Depth †	Weight lb (kg)
Metal	4.9 (124)	4.6 (116)	3.3 (83)	2.4 (61)	2.94 (1.34)
Plastic	4.9 (124)	4.6 (116)	3.3 (83)	2.4 (61)	2.94 (1.34)

† Less gauge.



REPLACEMENT FILTER ELEMENT KIT

Element Type	Kit Number
5- μ m polyethylene (Std element)	936K77

COMBINATION FILTER, REGULATOR* & LUBRICATOR (Includes 2 female port kits)

Port Size	Automatic Drain Models		Manual Drain Models	
	Plastic Bowl	Metal Bowl	Plastic Bowl	Metal Bowl
1/4	5N11B2111	5N11B2212	5N11B2311	5N11B2412
3/8	5N11B3111	5N11B3212	5N11B3311	5N11B3412
1/2	5N11B4111	5N11B4212	5N11B4311	5N11B4412

* Piston type; regulated pressure 0 - 100 psig (7 bar); gauge included.

NOTE: For BSPP threads, add the letter "C" in front of the part number.

FULL-SIZE Sight-Feed Modular FRLs

Integrated Filter/Regulator plus Lubricator

Ports: 1/4, 3/8, 1/2, 3/4
Flow to 140 scfm



FEATURES:

- Filter and regulator consolidated in a single assembly; sight-feed lubricator.
- Modular or inline mounting.
- 5- μ m-rated polyethylene filter element.
- Zinc bowls with clear nylon sight glasses or polycarbonate plastic bowls with steel shatterguard.
- Internal automatic filter drain; optional manual drain or external automatic drain.
- Self-relieving diaphragm-type regulator; non-relieving optional.
- Pressure gauge.
- NPTF port threads; optional SAE or BSPP threads.

STANDARD SPECIFICATIONS

Ambient/Media Temperature:

40° to 125°F (4° to 52°C).
With metal bowls: 40° to 175°F (4° to 79°C).

Bodies: Zinc for filter/regulator and lubricator.

Bowls: 8-ounce (240-ml) capacity zinc bowls with clear nylon sight glasses or polycarbonate plastic bowls with steel shatterguards.

Bowl Rings: Nylon.

Filter Drain: Internal automatic drain; optional manual drain or external automatic drain.

Filter Element: 5- μ m-rated polyethylene.

Fluid Media: Compressed air.

Inlet Pressure:

15 psig (1 bar) minimum with automatic drain.
150 psig (10 bar) maximum.
With metal bowls: 200 psig (13.7 bar) maximum.

Oil Adjustment: External; tamper-resistant.

Outlet Pressure: Adjustable up to 125 psig (8.6 bar).

Pressure Adjustment Locking Key: Removable.

Pressure Gauge: 0 to 200 psig (14 bar); 1/4 NPT gauge ports front and rear.

Regulator: Nylon dome; acetal knob.

Seals: Nitrile.

Sight Dome: Clear nylon.

AIR FLOW DATA

See *Flow Charts* for individual assembly components on preceding pages.

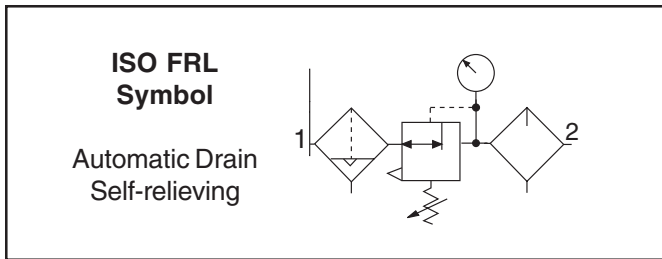
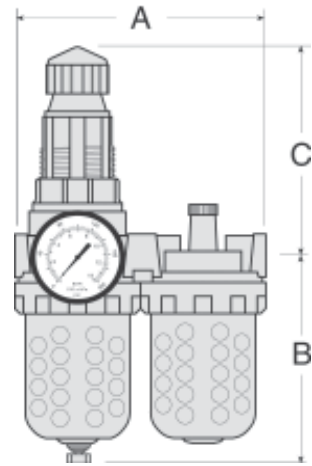
FULL-SIZE Sight-Feed Modular FRLs Integrated Filter/Regulator plus Lubricator

Ports: 1/4, 3/8, 1/2, 3/4
Flow to 140 scfm

DIMENSIONS inches (mm)

A	B	C	Depth †	Weight †
				lb (kg)
6.7	5.8	3.3	3.5	5.94
(170)	(147)	(84)	(89)	(2.69)

† Less gauge.



REPLACEMENT FILTER ELEMENT KIT

Element Type	Kit Number
5-µm polyethylene (Std element)	939K77

COMBINATION FILTER, REGULATOR* & LUBRICATOR (Includes 2 female port kits)

Port Size	Automatic Drain Models		Manual Drain Models	
	Plastic Bowl	Metal Bowl	Plastic Bowl	Metal Bowl
1/4	5E11B2121	5E11B2222	5E11B2321	5E11B2422
3/8	5E11B3121	5E11B3222	5E11B3321	5E11B3422
1/2	5E11B4121	5E11B4222	5E11B4321	5E11B4422
3/4	5E11B5121	5E11B5222	5E11B5321	5E11B5422

*Diaphragm type; regulated pressure 0 – 125 psig (8.6 bar); gauge included.

Plastic bowl includes metal bowl guard.

NOTE: Each regulator comes complete with a gauge.

For pipe nipple version, change the third and fourth digits to zero (0), e.g. 5E11B2321 becomes 5E00B2321.

For quick fill lubricator cap, change last digit to four (4), e.g. 5E11B2422 becomes 5E11B2424.

For wick-feed lubricator, change last digit to six (6), e.g., 5E11B4422 becomes 5E11B4426.

For wick-feed lubricator with quick fill cap, change last digit to eight (8), e.g., 5E11B2402 becomes 5E11B2408.

NOTE: For BSPP threads, add the letter “C” in front of the part number.



MD4™ FRLs

Integrated Filter/Regulators plus Lubricator

Ports: 3/8, 1/2, 3/4
Flow to 205 scfm



FEATURES:

- Filter and regulator consolidated in a single assembly; sight-feed lubricator.
- Modular or inline mounting.
- 5- μ m-rated polyethylene filter element; optional 40- μ m element.
- Aluminum bowl with clear nylon sight glass or polycarbonate plastic bowl with steel shatterguard.
- Internal automatic filter drain; optional manual drain, or electronic drain.
- Optional extended aluminum lubricator bowl with sight glass.
- Self-relieving diaphragm-type regulator; non-relieving optional.
- Pressure gauge; two gauge ports.
- NPTF port threads; optional SAE or BSPP threads.

STANDARD SPECIFICATIONS

Ambient/Media Temperature:

Metal bowls: 40° to 175°F (4° to 79°C).
Plastic bowls: 40° to 125°F (4° to 52°C).

Bowls: 9-ounce (270-ml) capacity aluminum bowl with clear nylon sight glass or polycarbonate plastic bowl with steel shatterguard. Optional 15-ounce (450-ml) extended aluminum lubricator bowl with clear nylon sight glass.

Cap Colors: Filter/regulator, black only. Lubricator, gold. Gray, yellow, red, and blue optional.

Filter Drain: Internal automatic drain; optional manual drain, or electronic drain.

Filter Element: 5- μ m-rated polyethylene; optional 40- μ m element.

Fluid Media: Compressed air.

Heads: Zinc.

For mounting options, see page 130.

Inlet Pressure:

15 psig (1 bar) minimum with automatic drain.
Metal bowls: 200 psig (13.7 bar) maximum.
Plastic bowls: 150 psig (10 bar) maximum.

Oil Adjustment: External; tamper-resistant.

Outlet Pressure: Adjustable up to 125 psig (8.6 bar).

Pressure Adjustment Locking Key: Removable.

Pressure Gauge: 0 to 200 psig (14 bar); 1/4 NPT gauge ports front and rear.

Regulator Valve: Brass.

Seals: Nitrile.

Sight Dome: Clear nylon.

AIR FLOW DATA

See *Flow Charts* for individual assembly components on preceding pages.

MD4™ FRLs

Integrated Filter/Regulators plus Lubricator

Ports: 3/8, 1/2, 3/4

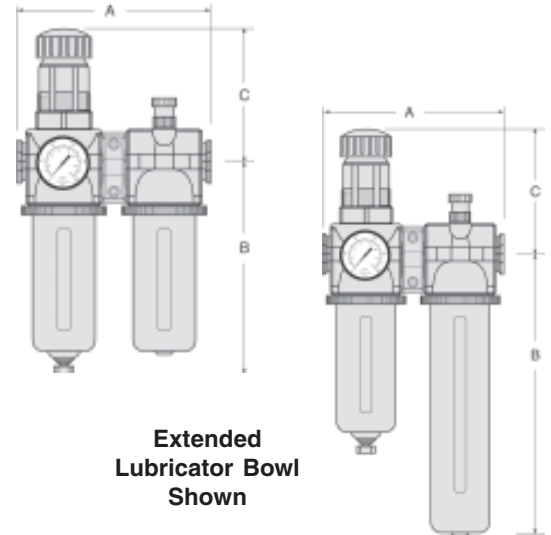
Flow to 205 scfm

DIMENSIONS inches (mm)

Bowl	A	B **	C	Depth †	Weight † lb (kg)
Standard	7.3 (186)	7.7 (195)	5.4 (137)	2.9 (73)	5.81 (2.64)
Extended	7.2 (183)	10.6 (269)	5.4 (137)	2.9 (73)	6.00 (2.73)

** Bowl removal clearance: For 9-ounce plastic bowl add 4.2 (107).
 For 9-ounce metal bowl add 4.1 (104).
 For extended bowl add 6.1 (155).

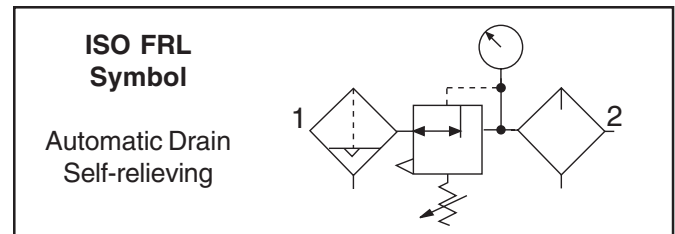
† Less gauge.



**Extended
Lubricator Bowl
Shown**

REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
5-µm (Std element)	R-A115-106PE5
40-µm bronze	R-A115-106PE3



ORDER INFORMATION

	MD4	53P	B	A	1	B	5	G	S	*	
BOWL SIZE		53P - Two 9 oz. Polycarbonate Bowl 53M - Two 9 oz. Metal Bowl 53E - 9 oz. metal on filter; 15 oz. metal on lubricator. 53F - 9 oz. polycarbonate on filter; 15 oz. metal on lubricator									ADD ON LOCKOUT VALVE 1 - Yellow Piped 2 - Gold Piped 3 - Slide Type Blank - no L-O-X® <small>For L-O-X® information, please contact ROSS</small>
REGULATOR ADJUSTMENT RANGE			A - 0-175 psig (0-12 bar) (with 0-200 psig gauge) B - 0-125 psig (0-8.6 bar) (standard) (with 0-200 psig gauge) C - 0-50 psig (0-3.4 bar) (with 0-60 psig gauge) D - 0-20 psig (0-1.3 bar) (with 0-60 psig gauge)								
FILTER ELEMENT TYPE				A - 40 Micron B - 5 Micron (standard)							
FILTER REGULATOR TYPE					1 - Integral (one piece) with auto drain 2 - Integral (one piece) with manual drain 3 - Integral (one piece) with electronic drain - metal bowl only 4 - Integral (one piece) with automatic external drain - metal bowl only						
								LUBRICATOR TYPE S - Standard Q - Quick-Fill Cap			
								COLOR G - Gray Y - Yellow R - Red B - Blue 2 - Gold (standard)			
								PIPE SIZE 3 - 3/8 NPTF 4 - 1/2 NPTF 5 - 3/4 NPTF C - 3/8 BSPP D - 1/2 BSPP E - 3/4 BSPP F - 3/4-16 SAE G - 7/8-14 SAE			

