

**1-800-GRAINGER (472-4643)**

## In-Line Lubricators

- Polycarbonate bowl: 150 max. psi; 125°F max. temp.
- Metal bowl: 250 max. psi; 175°F max. temp.
- Modular connector allows easy removal and swap out

Lubricators maintain a constant oil-to-air density over a wide range of flow. An integral flow sensor provides proportional control.

Note: Polycarbonate bowls are not recommended for use in atmospheres containing chemicals such as acetone, benzene, carbon tetrachloride, ethylene dichloride, gasoline, toluene, and/or air compressor systems using synthetic fire-resistant lubricants.



**Micromist**—Provides lubrication for multiple pneumatic tools/devices. Comes equipped with a red 360° sight/feed dome.

- Up to 50-ft. pipe runs

**Mist**—Ideal lubrication for a single tool/device. Includes a green 360° sight/feed dome.

- 15- to 20-ft. pipe runs

Bowl Material	Pipe Size	Max. Flow*	H	MICROMIST Item No.	MIST Item No.
<b>Compact Series</b>					
Polycarbonate with Zinc Guard	1/4 in NPT	50 cfm	7 1/8 in	4ZL69	4ZL85
	3/8 in NPT	50 cfm	7 1/8 in	4ZL71	4ZL87
	1/2 in NPT	50 cfm	7 1/8 in	4ZL68	4ZL84
Zinc	3/8 in NPT	50 cfm	7 1/8 in	4ZL70	4ZL86
<b>Heavy Duty Series</b>					
Metal with Sight Glass	3/4 in NPT	160 cfm	12 3/8 in	4ZL58	4ZL59
	1 in NPT	275 cfm	12 3/8 in	4ZL60	4ZL61
	1 1/2 in NPT	275 cfm	12 3/8 in	4ZL62	4ZL63
<b>Intermediate Duty Series</b>					
Aluminum	1/4 in NPT	60 cfm	8 1/2 in	4ZL78	4ZL72
	3/8 in NPT	75 cfm	8 1/2 in	4ZL80	4ZL74
	1/2 in NPT	95 cfm	8 1/2 in	4ZL82	4ZL76
	3/4 in NPT	60 cfm	8 1/2 in	4ZL79	4ZL73
Polycarbonate with Steel Guard	3/8 in NPT	75 cfm	8 1/2 in	4ZL81	4ZL75
	1/2 in NPT	95 cfm	8 1/2 in	4ZL83	4ZL77
<b>Miniature Series</b>					
Polycarbonate	1/8 in NPT	10 cfm	5 1/2 in	4ZL56	—
	1/4 in NPT	14 cfm	5 1/2 in	4ZL57	—
<b>Standard Duty Series</b>					
Aluminum	3/8 in NPT	114 cfm	8 13/16 in	4ZL90	4ZL84
	1/2 in NPT	154 cfm	8 13/16 in	4ZL92	4ZL86
	3/4 in NPT	142 cfm	8 13/16 in	4ZL94	4ZL88
	3/8 in NPT	114 cfm	8 13/16 in	4ZL91	4ZL85
Polycarbonate with Steel Guard	1/2 in NPT	154 cfm	8 13/16 in	4ZL93	—
	3/4 in NPT	80 cfm	8 13/16 in	—	4ZL87
	3/4 in NPT	142 cfm	8 13/16 in	4ZL95	4ZL89

\* cfm based on 90 psig inlet and 5 psig pressure drop.



4ZL92

For Use With	Includes	Item No.
<b>Polycarbonate Air Lubricator Bowl Replacement Kits</b>		
Speedaire Miniature Lubricators	Bowl and O-Ring	1AKJ2
Speedaire Compact Lubricators	Bowl, Bowl Guard, O-Ring	1AKG8
Speedaire Standard Lubricators	Bowl, Bowl Guard, O-Ring	1AKJ1

Description	Pipe Size	Max. Flow	Overall Height	Overall Width	POLYCARBONATE WITH GUARD		METAL WITH SIGHT GLASS	
					Max. Temp.	Item No.	Max. Temp.	Item No.
<b>2-Piece Filter/Regulator MicroMist Lubricator*</b>								
Compact	1/4 in NPT	51 cfm	8 3/4 in	4 1/4 in	125 °F	7D683	150 °F	7D684
	3/8 in NPT	51 cfm	8 3/4 in	4 1/4 in	125 °F	7D685	150 °F	7D686
	1/2 in NPT	60 cfm	9 1/8 in	5 1/8 in	125 °F	7D699	175 °F	7D700
Intermediate	3/8 in NPT	60 cfm	9 1/8 in	5 1/8 in	125 °F	7D701	175 °F	7D702
	1/2 in NPT	60 cfm	9 1/8 in	5 1/8 in	125 °F	7D703	175 °F	7D704
	3/8 in NPT	114 cfm	11 1/8 in	6 1/8 in	125 °F	7D723	175 °F	7D724
Standard	1/2 in NPT	192 cfm	11 1/8 in	6 1/8 in	125 °F	7D725	175 °F	7D726
	3/4 in NPT	186 cfm	11 1/8 in	6 1/8 in	125 °F	7D727	175 °F	7D728
<b>2-Piece Filter Regulator Mist Lubricator†</b>								
Compact	1/4 in NPT	51 cfm	8 3/4 in	4 1/4 in	125 °F	7D687	150 °F	7D688
	3/8 in NPT	51 cfm	8 3/4 in	4 1/4 in	125 °F	7D689	150 °F	7D690
	1/2 in NPT	60 cfm	9 1/8 in	5 1/8 in	125 °F	7D705	175 °F	7D706
Intermediate	3/8 in NPT	60 cfm	9 1/8 in	5 1/8 in	125 °F	7D707	175 °F	7D708
	1/2 in NPT	60 cfm	9 1/8 in	5 1/8 in	125 °F	7D709	175 °F	7D710
	3/8 in NPT	118 cfm	11 1/8 in	6 1/8 in	125 °F	7D729	175 °F	7D730
Standard	1/2 in NPT	192 cfm	11 1/8 in	6 1/8 in	125 °F	7D731	175 °F	7D732
	3/4 in NPT	186 cfm	11 1/8 in	6 1/8 in	125 °F	7D733	175 °F	7D734
<b>3-Piece Filter and Regulator and MicroMist Lubricator‡</b>								
Compact	1/4 in NPT	51 cfm	7 1/8 in	6 1/8 in	150 °F	7D691	150 °F	7D692
	3/8 in NPT	51 cfm	7 1/8 in	6 1/8 in	150 °F	7D693	150 °F	7D694
	1/2 in NPT	56 cfm	8 in	9 1/8 in	175 °F	7D711	175 °F	7D712
Intermediate	3/8 in NPT	60 cfm	8 in	9 1/8 in	150 °F	7D713	150 °F	7D714
	1/2 in NPT	60 cfm	8 in	9 1/8 in	175 °F	7D715	175 °F	7D716
	3/8 in NPT	114 cfm	8 1/8 in	10 1/2 in	175 °F	7D735	175 °F	7D736
Standard	1/2 in NPT	154 cfm	8 1/8 in	10 1/2 in	175 °F	7D737	175 °F	7D738
	3/4 in NPT	142 cfm	8 1/8 in	10 1/2 in	175 °F	7D739	175 °F	7D740
Heavy-Duty	3/4 in NPT	160 cfm	12.45 in	14 3/4 in	—	—	175 °F	4ZL99
	1 in NPT	275 cfm	12.45 in	14 3/4 in	—	—	175 °F	4ZM01
<b>3-Piece Filter and Regulator and Mist Lubricator†</b>								
Compact	1/4 in NPT	51 cfm	7 1/8 in	6 1/8 in	150 °F	7D695	150 °F	7D696
	3/8 in NPT	51 cfm	7 1/8 in	6 1/8 in	150 °F	7D697	150 °F	7D698
	1/2 in NPT	56 cfm	8 in	9 1/8 in	125 °F	7D717	125 °F	7D718
Intermediate	3/8 in NPT	60 cfm	8 in	9 1/8 in	175 °F	7D719	175 °F	7D720
	1/2 in NPT	60 cfm	8 in	9 1/8 in	175 °F	7D721	175 °F	7D722
	3/8 in NPT	118 cfm	8 1/8 in	10 1/2 in	175 °F	7D741	175 °F	7D742
Standard	1/2 in NPT	192 cfm	8 1/8 in	10 1/2 in	175 °F	7D743	175 °F	7D744
	3/4 in NPT	186 cfm	8 1/8 in	10 1/2 in	175 °F	7D745	—	—
	3/4 in NPT	100 cfm	8 1/8 in	10 1/2 in	—	—	175 °F	7D746
Heavy-Duty	3/4 in NPT	160 cfm	12.45 in	14 3/4 in	—	—	175 °F	4ZM02
	1 in NPT	275 cfm	12.45 in	14 3/4 in	—	—	175 °F	4ZM03

\* Regulators and filter/regulators: cfm flow measures with 90 psig inlet adjusted to a set pressure of 90 psig (while increasing flow) and a 15 psig drop. Lubricators: cfm based on 90 psig inlet and 5 psig pressure drop. † General purpose filters: cfm based on 100 psig inlet and 5 psig pressure drop. Regulators: cfm flow measures with 100 psig inlet adjusted to a set pressure of 90 psig (while increasing flow) and a 15 psig drop. Lubricators: cfm based on 100 psig inlet and 5 psig pressure drop.

## Modular Connectors

- Allow easy removal and replacement of Speedaire® components

Use Speed Clamps™ instead of pipe nipples to interconnect components.

**Modular Pneumatic Lockout Valves**—3-way function valves can be padlocked in the closed (vented) position only. Installed in the pressure inlet of pneumatic devices.

**Porting Blocks**—Provide 3 auxiliary 1/4" NPT outlets to pipe high-pressure or nonlubricated air.

**Manifold Blocks**—Permit 90° attachment of additional system components such as filters, regulators, or pressure switches.



Key	For Use With	NPT (in.)	Item No.
<b>Modular Air Line Lockout Valves</b>			
A	Speedaire Compact	1/4 in	4ZM24
A	Speedaire Compact	3/8 in	4ZM25
A	Speedaire Intermediate, Speedaire Standard	1/4 in	4ZM26
A	Speedaire Intermediate, Speedaire Standard	3/8 in	4ZM27
A	Speedaire Intermediate, Speedaire Standard	1/2 in	4ZM28
A	Speedaire Intermediate, Speedaire Standard	3/4 in	4ZM29



Key	For Use With	NPT (in.)	Item No.
<b>Speed Clamps™ w/Mounting Bracket</b>			
B	Compact	—	4ZK25
B	Intermediate and Standard	—	4ZK36
C	Compact	—	4ZK24
C	Intermediate and Standard	—	4ZK35
<b>Mounting Brackets</b>			
C	Intermediate and Standard (used with No. 4ZK35)	—	4ZK34
<b>Speed Mount Pipe Adapters</b>			
D	Compact	1/4 in	4ZK26
D	Intermediate and Standard	1/4 in	4ZK37
D	Intermediate and Standard	3/8 in	4ZK38
D	Intermediate and Standard	1/2 in	4ZK39
D	Intermediate and Standard	3/4 in	4ZK40
<b>Porting Blocks (3 NPT Ports)</b>			
—	Compact	1/4 in	4ZK28
—	Intermediate and Standard	1/4 in	4ZK41
<b>Manifold Blocks (4 NPT Ports)</b>			
—	Compact	3/8 in	4ZK30
—	Intermediate and Standard	3/4 in	4ZK43

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