

## TABLE OF CONTENTS

### AIR OVER OIL RESERVOIRS

Base Mount .....	LE-2
Wall Mount .....	LE-3

### CENTRALIZED LUBRICATION SYSTEMS

Grease Cartridge Adapter .....	LE-4
Grease Reservoirs - Remote/Wall Mount .....	LE-5
PMP100 Series - Pneumatic.....	LE-6
PMP200 Series - Electric .....	LE-7
PMP300 Series - Pneumatic Panel Mount Systems ..	LE-8
PMP400 Series - Electric Panel Mount Systems .....	LE-9
PMP500 Series - Pneumatic NEMA Mount Systems .	LE-10
PMP600 Series - Electric NEMA Mount Systems.....	LE-11
Repeat Cycle Timer.....	LE-12
Solenoid Valve .....	LE-13

### CHAIN OILERS & APPLICATORS

NVB Series - Straight Valve Brush, Round or Flat ...	LE-14
NVB Series - Flat Strip Brush, Straight or 45°.....	LE-15
NVB Series - 45° Valve with Flat Brush .....	LE-16
NVB Series - Rotary Wheel Valve Brush .....	LE-16
RDB300 Series.....	LE-17
REB Series.....	LE-18
Replacement Brushes.....	LE-19
SB Series .....	LE-20
SV Series .....	LE-21

### FLOW SIGHTS

F50/60 Series .....	LE-22
F150/160 Series.....	LE-23
F250 Series .....	LE-24
F300 Series .....	LE-25
F560 Series .....	LE-26

### INLINE FILTER - LIQUID

Inline Filter - Liquid .....	LE-27
------------------------------	-------

### LUBRICATORS & DISPENSERS

GUN-fil® Lubricator .....	LE-28
R100 Series.....	LE-29
RCL Series.....	LE-32
RDF Series Pipe Thread NPTF .....	LE-33
RDF Series Straight Thread/Remote Mount.....	LE-34
RDM Series.....	LE-35
REF Series.....	LE-36
REM Series .....	LE-37
REO Series .....	LE-38
RFF100 Series.....	LE-39
RVP Series.....	LE-40

### METERING & SHUT OFF VALVES

ESS Series.....	LE-41
ESV Series.....	LE-42
FFG Series - Heavy Duty .....	LE-43
Mini Line Series.....	LE-44
N100 Series.....	LE-45
N400 Series.....	LE-46
N470 Series.....	LE-47
NVM Series.....	LE-48
TMF Series .....	LE-49

### PRESSURE/VACUUM RELIEF VENTS

PRV100 Series .....	LE-50
PRV200 Series .....	LE-50

### SAMPLING VALVE

V101 Series .....	LE-51
-------------------	-------

### VENTED OIL GAGES

G100 Series.....	LE-52
GT100 Series .....	LE-53
GTW100 Series .....	LE-54
G150 Series.....	LE-55
GTW150 Series .....	LE-56
G200 Series.....	LE-57
G260 Series.....	LE-58
G300 Series.....	LE-59
G320 Series.....	LE-60
G400 Series.....	LE-61
G420 Series.....	LE-62
G650 Series.....	LE-63
G710 Series.....	LE-64
G800 Series.....	LE-65
G900 Series.....	LE-66

### VENTS & BREATHERS

AV100 Series .....	LE-67
AV200 Series .....	LE-67
AV50 Series .....	LE-68
FV100 Series .....	LE-68

### APPENDICES

Oil Gage Modifications.....	LE-A1
Installation Instructions - PMP100-( ) Air Operated .	LE-A2
Toggle Valve Adjustment Instructions .....	LE-A3

# AIR OVER OIL RESERVOIRS

## BASE MOUNT

Air over oil reservoirs provide precision hydraulic power from shop air. Exact cylinder movement is achieved without the high cost of conventional hydraulic power requiring pump, motor, filter, etc.

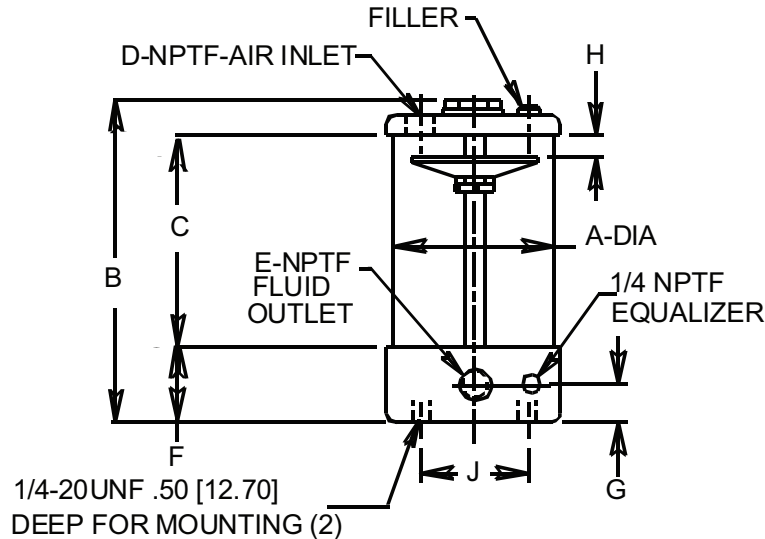
Basic circuits, when used with low pressure hydraulic check, flow control and directional valves, allow oil (driven at 1:1 ratio) to force piston rod at the same speed through both forward and return stroke. The speed control is adjustable to your work requirement.

### Standard Materials:

- Aluminum base and cover
- Buna N seals
- Steel stem
- Break resistant, colorless, transparent polymer bowl
- Aluminum bowl and sight gage may be specified

### Temperature and Pressure Ratings:

- Maximum working temperature
  - Polymer up to 140°F (60°C)
  - Aluminum up to 250°F (121.1°C)
- Maximum working pressure
  - Polymer up to 80 PSI (552 kPa)
  - Aluminum up to 125 PSI (861.9 kPa)



**NOTE:** All dimensions are inches [mm]



**Air Over Oil Reservoir - Base Mount**

Part Number		Capacity inches <sup>3</sup> (cm <sup>3</sup> )		Dimensional Information inches (mm)								
Polymer	Aluminum w/gage	Polymer	Aluminum	A	B	C	D	E	F	G	H	J
A/OR1009-1	—	6.90 (113.10)	8.80 (144.20)	2.50 (63.50)	4.12 (104.60)	2.25 (57.20)	1/8	1/4	1.44 (36.60)	.81 (20.60)	.25 (6.40)	1.25 (31.80)
A/OR1018-2	A/OR11018-2	14.00 (229.40)	18.00 (295.00)	2.50 (63.50)	6.62 (168.10)	4.75 (120.60)	1/4	1/4	1.44 (36.60)	.81 (20.60)	.25 (6.40)	1.25 (31.80)
A/OR1024-2	—	20.00 (327.70)	26.00 (426.10)	2.50 (63.50)	8.62 (218.90)	6.75 (171.40)	1/4	1/4	1.44 (36.60)	.81 (20.60)	.25 (6.40)	1.25 (31.80)
A/OR1030-2	A/OR11030-2	26.00 (426.10)	33.00 (540.80)	2.50 (63.50)	10.62 (269.70)	8.75 (222.20)	1/4	1/4	1.44 (36.60)	.81 (20.60)	.25 (6.40)	1.25 (31.80)
A/OR1042-2	—	35.00 (573.40)	45.00 (737.40)	2.50 (63.50)	13.62 (345.90)	11.75 (298.40)	1/4	1/4	1.44 (36.60)	.81 (20.60)	.25 (6.40)	1.25 (31.80)
A/OR2053-3	A/OR12053-3	47.00 (770.20)	56.00 (917.70)	3.50 (88.90)	8.94 (227.10)	6.88 (174.8)	1/4	3/8	1.62 (41.10)	.94 (23.90)	.50 (12.70)	2.00 (50.80)
A/OR2075-3	—	67.00 (1098.00)	79.00 (1295.00)	3.50 (88.90)	11.81 (300.00)	9.75 (247.60)	1/4	3/8	1.62 (41.10)	.94 (23.90)	.50 (12.70)	2.00 (50.80)
A/OR2075-4	—	—	—	—	—	—	—	1/2	—	—	—	—
A/OR2100-3	—	88.00 (1442.00)	104.00 (1704.00)	3.50 (88.90)	15.08 (383.00)	12.75 (323.80)	1/4	3/8	1.62 (41.10)	.94 (23.90)	.50 (12.70)	2.00 (50.80)
A/OR2150-3	—	130.00 (2130.00)	153.00 (2507.00)	3.50 (88.90)	20.81 (528.60)	18.75 (476.20)	1/4	3/8	1.62 (41.10)	.94 (23.90)	.50 (12.70)	2.00 (50.80)
A/OR2200-3	—	171.00 (2802.00)	201.00 (3294.00)	3.50 (88.90)	27.02 (686.30)	24.75 (628.60)	1/4	3/8	1.62 (41.10)	.94 (23.90)	.50 (12.70)	2.00 (50.80)

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# AIR OVER OIL RESERVOIRS

## WALL MOUNT

Air over oil reservoirs provide precision hydraulic power from shop air. Exact cylinder movement is achieved without the high cost of conventional hydraulic power requiring pump, motor, filter, etc.

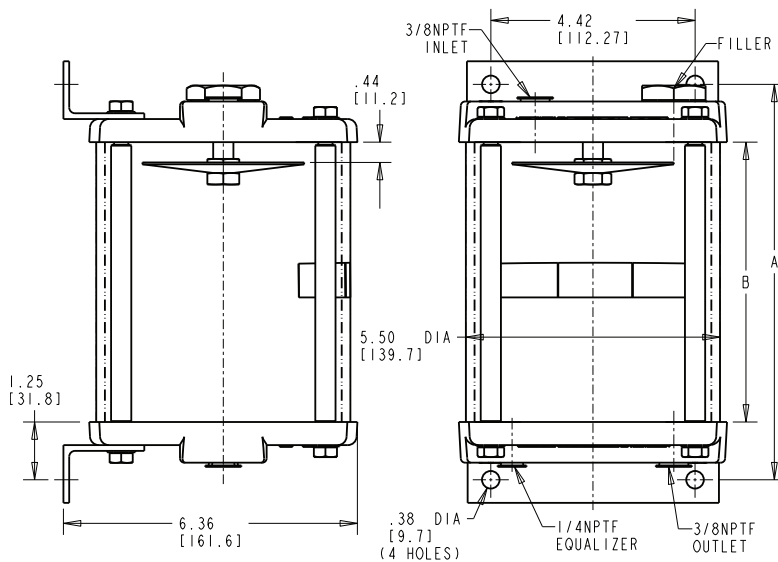
Basic circuits, when used with low pressure hydraulic check, flow control and directional valves, allow oil (driven at 1:1 ratio) to force piston rod at the same speed through both forward and return stroke. The speed control is adjustable to your work requirement.

### Standard Materials:

- Aluminum base and cover
- Buna N seals
- Break resistant, colorless, transparent polymer
- Aluminum bowl and sight gage may be specified

### Temperature and Pressure Ratings:

- Maximum working temperature
  - Polymer up to 140°F (60°C)
  - Aluminum up to 250°F (121.1°C)
- Maximum working pressure
  - Polymer up to 60 PSI (413.7 kPa)
  - Aluminum up to 100 PSI (689.5 kPa)



**NOTE:** All dimensions are inches [mm]

Air Over Oil Reservoir - Wall Mount					
Part No.		Capacity inches <sup>3</sup> (cm <sup>3</sup> )		A inches (mm)	B inches (mm)
Polymer	Aluminium w/gage	Polymer	Alum.		
A/OR5075-3	—	97.00 (1589.50)	102.0 (1671.50)	7.06 (179.32)	4.56 (115.82)
A/OR5100-3	—	127.00 (2081.20)	133.00 (2179.50)	8.56 (217.42)	6.06 (153.92)
—	A/OR15175-3	196.00 (3211.90)	205.00 (3359.30)	12.06 (306.32)	9.56 (242.82)
A/OR5200-3	—	220.0 (3605.2)	231.0 (3785.4)	13.31 (388.07)	10.81 (274.57)

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# CENTRALIZED LUBRICATION SYSTEMS

## GREASE CARTRIDGE ADAPTER

Grease Cartridge Adapters are designed to take advantage of readily available grease cartridges. These cartridges are available in most commonly used NLGI grades at the retail or wholesale level. These brass adapters are ideally suited for operation with LDI's Precision Metering Pumps PMP100 (air operated) and PMP200 (motor operated).

### Standard Materials:

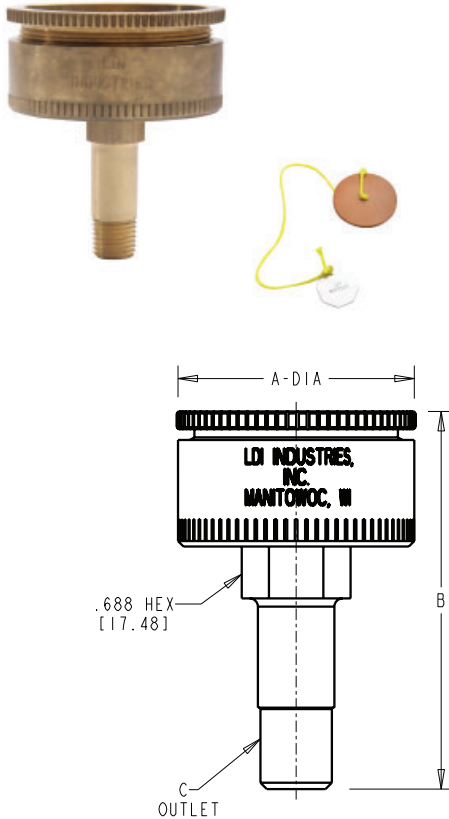
- Brass construction
- Buna N seals

### Standard Features:

- **GCA100** Adapts the nominal 3 ounce (85g) standard cartridge size 1.31 (33.27mm) dia x 6.00 (152.40mm) long
- **GCA200** Adapts the nominal 14 ounce (397g) standard cartridge size 2.12 (53.85mm) dia x 9.00 (228.60mm) long

### Temperature Rating:

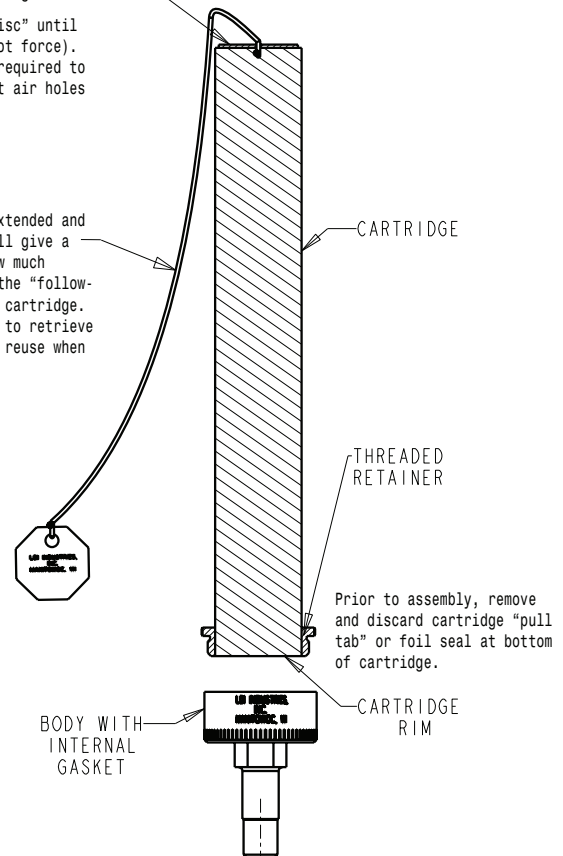
- Maximum operating temperature up to 120°F (48°C)



Remove and discard cartridge cover.

Insert the "follower disc" until it touches grease (do not force). The "follower disc" is required to exclude dirt and prevent air holes in the grease.

Leave the disc "line" extended and free as shown and it will give a visual indication of how much grease is remaining as the "follower disc" moves down the cartridge. The "line" is also used to retrieve the "follower disc" for reuse when the cartridge is empty.



**NOTE:** All dimensions are inches [mm]

Grease Cartridge Adapters				
Part No.	A Inches (mm)	B Inches (mm)	C Outlet	Capacity Nominal Cartridge Weight
<b>GCA100</b>	1.75 (44.45)	2.75 (69.85)	1/4-18NPTF	3 oz. (85g)
<b>GCA200</b>	2.50 (63.50)	2.81 (71.37)	1/4-18NPTF	14 oz. (397g)

**GCA100** adapts the nominal 3 ounce (85 g) standard cartridge size 1.31 in (33.27 mm) diameter x 6.00 in (152.40 mm) long

**GCA200** adapts the nominal 14 ounce (397 g) standard cartridge size 2.12 (53.85 mm) diameter x 9.00 in (228.60 mm) long

Patent Number: 6,149,037

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Pg LE-4

# CENTRALIZED LUBRICATION SYSTEMS

## GREASE RESERVOIRS - REMOTE/WALL MOUNT

Grease Reservoirs are ideal for supplying positive displacement pumps, such as the PMP100 or PMP200 Precision Metering Pumps, when larger capacities are required than offered by the GCA100 or GCA200 Grease Cartridge Adapters. These reservoirs feature a conveniently located grease fitting for filling, an internal follower piston to prevent air passing through the grease to the outlet and a large outlet to minimize restriction when connecting to a pump. Top and bottom mounting brackets minimize installation time. The reservoir must be mounted vertically with the outlet down and must not be pressurized on the grease side or the vent side.

### Standard Materials:

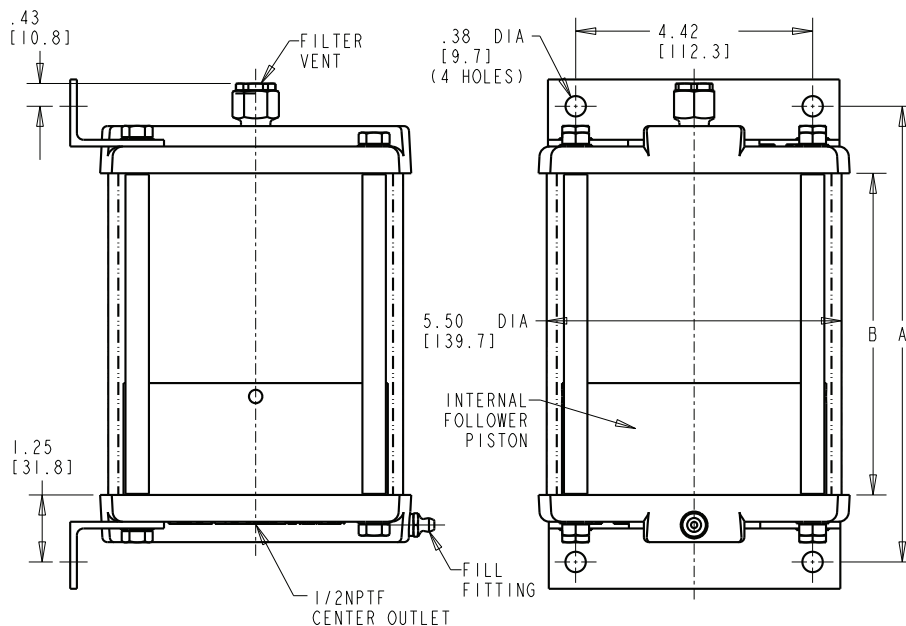
- Aluminum construction
- Buna N seals
- Break resistant, colorless, transparent acrylic bowl

### Standard Features:

- 40 micron air filter vent to minimize contamination
- Full 360° visual check of the grease level
- Mounting brackets feature (4) .38 inch diameter mounting holes

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 160°F (71°C)
- Working pressure is from atmospheric to minus 29 inHg (737 mmHg)



**NOTE:** All dimensions are inches [mm]

Grease Reservoir Series			
Part No.	Capacity (weight)	A inches (mm)	B inches (mm)
GR75	75 in <sup>3</sup> (1229 cm <sup>3</sup> ) [41 oz (1.16 kg)]	8.50 (215.90)	6.06 (153.92)
GR168	168 in <sup>3</sup> (2753 cm <sup>3</sup> ) [91 oz (2.58 kg)]	13.25 (336.55)	10.69 (271.53)

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# CENTRALIZED LUBRICATION SYSTEMS

## PMP100 SERIES - PNEUMATIC

The PMP100 Series air operated metering pumps are unique in that each outlet/feed is an individual positive displacement pump. These pumps are ideal for dispensing precise, easily adjustable volumes of a variety of fluids including: oils or grease for lubrication, inks, dyes, chemical additives and cutting fluids. The factory should be consulted before using with high water base fluids.

The air operated metering pumps are:

- Positive displacement
- Self priming with up to 27 InHg (686mmHg)
- Will operate in any position.

They are available in 1 to 15 feeds for oil or 1 to 5 feeds for grease with each feed independently and externally adjustable from 0 to .01 cu. in. (0 to .20 cu. cm.) by a micrometer thread .02 (.57mm) pitch.

A patented feature allows additional pumps (**AMP100**) to be easily added to a **PMP100-02** or more pump banks. The air operated metering pumps are intended for "on command", higher output pressure applications where a compressed air supply of 25 to 125 PSIG (172.50 to 862.50 kPa) is available.

All feeds will actuate at the same time "on command" by using compressed air or other fluids through LDI Industries' 3-way Solenoid Valve (item no. **832160**) actuated by LDI's Repeat Cycle Timers (item no. **833380**). LDI's R100 Series filtered reservoirs are ideal for oil applications.

Grease applications should use LDI's **GCA100** or **GCA200** Grease Cartridge Adapters or **GR75** or **GR168** Grease Reservoirs.

### Standard Materials:

- Aluminum, Brass, Steel, Acrylic
- Buna N & Viton® seals

### Temperature and Pressure Ratings:

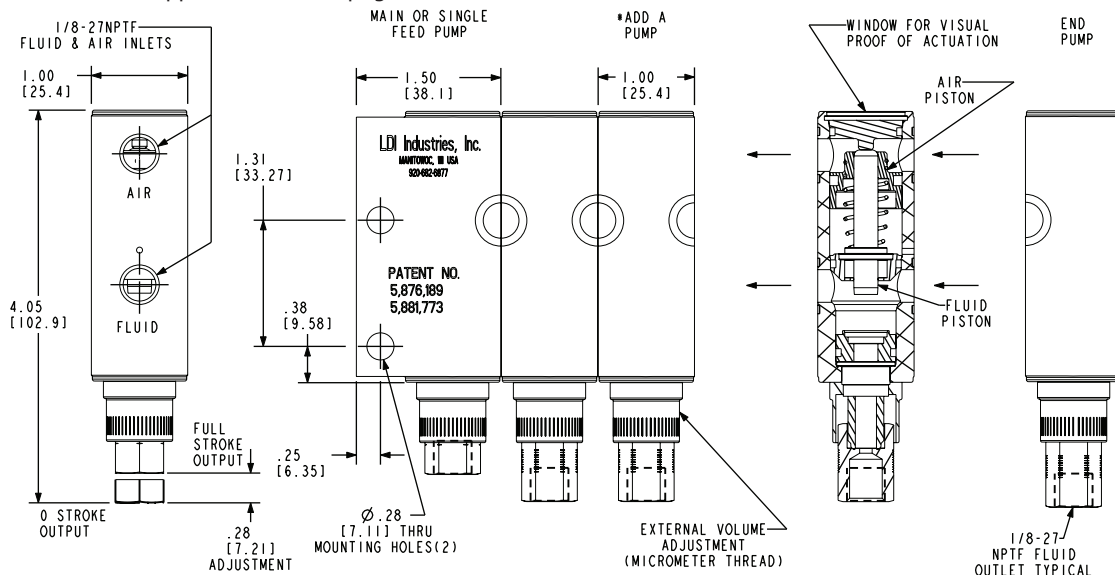
- Maximum operating temperature up to 120°F (48°C)
- Minimum operating temperature 0°F (-17°C), oil
- Minimum operating temperature 32°F (0°C), grease
- Maximum output pressure up to 250 PSIG (1725 kPa)

### CAUTION:

- For grease applications, the combination of higher viscosities, ambient temperatures lower than 32°F (0°C), excessively long runs of output feed lines, along with the type and use of smaller inside diameter feed lines, will have an effect on the feed rate and output capabilities of these pumps.

### NOTE:

- Please refer to Appendix LE-2 on page LE-A2 for PMP100 Installation information



**NOTE:** All dimensions are inches [mm]

### HOW TO ORDER:

After **PMP100** (Part Number), specify the number of feeds required, separated by a dash (-). Specify 1 through 15 feeds (-01/-15).

### Example

**PMP100-05** — 5 FEED

To Add A Pump to existing multiple feed bank, order Part Number **AMP100** (Not used with single feed P/N PMP100-01)

**Patent Numbers: 5,876,189 and 5,881,773**

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# CENTRALIZED LUBRICATION SYSTEMS

## PMP200 SERIES - ELECTRIC

Motor operated metering pumps are unique in that each outlet/feed is an individual positive displacement pump. These pumps are ideal for dispensing precise easily adjustable volumes of a variety of fluids including: oils or grease for lubrication, inks, dyes, chemical additives and cutting fluids.

The factory should be consulted before using with high water base fluids.

The motor operated metering pumps are:

- Positive displacement, self priming with up to 27 InHg (686mmHg)
- Will operate in any position.
- Are available in 1 to 4 pumps with each pump independently and externally adjustable from 0 to .01 cu. in. (0 to .20 cu. cm.) by a micrometer thread .02 (.57mm) pitch.
- Each pump will actuate once per minute of motor run time. The motor operated metering pumps are intended for lower output pressure applications or where a compressed air supply is not available.
- Oil applications should use R100 series filtered reservoirs.
- Grease applications should use GCA100 or GCA200, GR75 or GR168 Grease Reservoirs.

### Standard Materials:

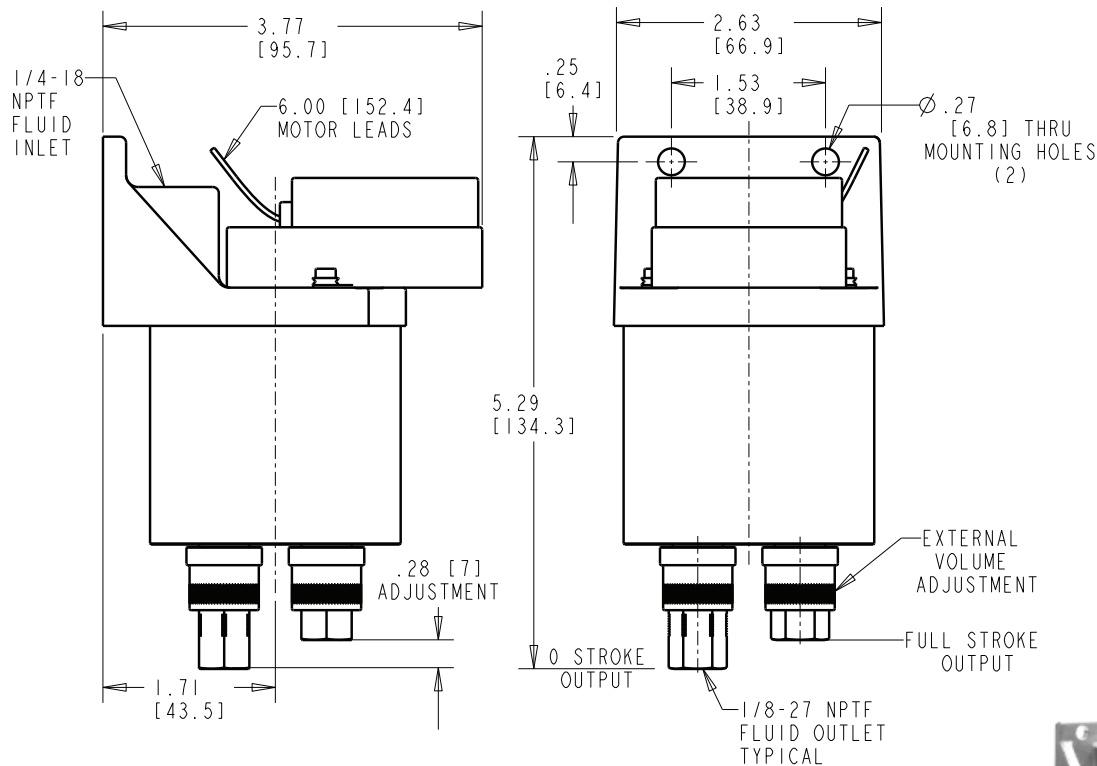
- Aluminum, Brass, Steel, Acrylic
- Buna N & Viton® seals

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 120°F (48°C)
- Minimum operating temperature 0°F (-17°C), oil
- Minimum operating temperature 32°F (0°C), grease
- Maximum output pressure up to 50 PSIG (345 kPa)
- 120V, 60Hz, 4W

### CAUTION:

- For grease applications, the combination of higher viscosities, ambient temperatures lower than 32°F (0°C), excessively long runs of output feed lines, along with the type and use of smaller inside diameter feed lines, will have an effect on the feed rate and output capabilities of these pumps



**NOTE:** All dimensions are inches [mm]

### HOW TO ORDER:

After **PMP200** (Part Number), specify the number of feeds required, separated by a dash (-). Specify 1 through 4 feeds (-01/-04).

### Example

**PMP200-04** 4 FEED (shown)

Patent Number: 5,876,189



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# CENTRALIZED LUBRICATION SYSTEMS

## PMP300 SERIES - PNEUMATIC PANEL MOUNT SYSTEMS

These "quick install" cost effective Centralized Lubrication Systems are pre-assembled with compatible components to minimize specification, purchasing and installation time. The automatic lubrication systems operate on 25 to 125 PSIG regulated & filtered shop air and a 120V, 60Hz 1Ph electrical supply for the included dual adjustable Repeat Cycle Timer and 3-Way Solenoid Valve. The systems are sized to meet most lubrication requirements. Each feed pump is independently and externally adjustable 0 to .01 cu in (0 to .20 cu cm) by using a fine micrometer thread .02 (.57mm) pitch adjustment. A clear window is provided on each Metering Pump for visual proof of actuation.

### Standard Materials:

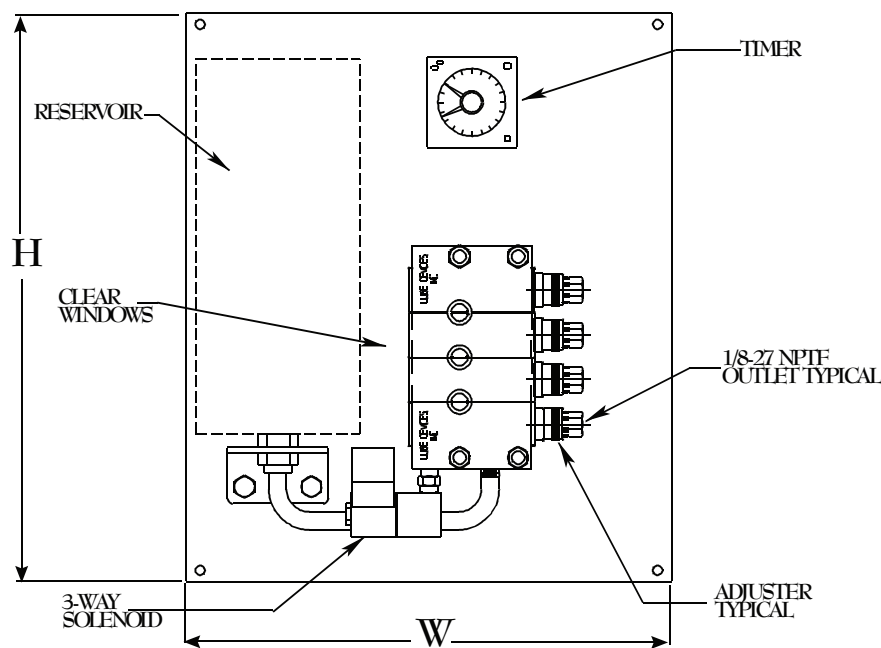
- Aluminum, Brass, Steel, Acrylic
- Buna N & Viton® seals
- Nema compliant panels

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 120°F (48°C)
- Minimum operating temperature 0°F (-17°C), oil
- Minimum operating temperature 32°F (0°C), grease
- Maximum output pressure up to 300 PSIG (2068 kPa)

### CAUTION:

- For grease applications, the combination of higher viscosities, ambient temperatures lower than 32°F (0°C), excessively long runs of output feed lines, along with the type and use of smaller inside diameter feed lines, will have an effect on the feed rate and output capabilities of these pumps.



### PMP300 Series (Oil Application)

Part No.	Reservoir Capacity	No. of Feeds	Nema Panel W x H (inches)	O. A. Depth (inches)
PMP340-04	1 quart	4	10.88 x 12.75	4.75
PMP340-06	1 quart	6		
PMP340-08	1 quart	8	10.88 x 12.75	6.00
PMP360-06	.5 gallon	6		
PMP360-08	.5 gallon	8		
PMP360-12	.5 gallon	12		

### PMP300 Series (Grease Application)

Part No.	Reservoir Capacity	No. of Feeds	Nema Panel W x H (inches)	O. A. Depth (inches)
PMP330-02	75 in <sup>3</sup>	2	10.88 x 12.75	7.00
PMP330-04		4		
PMP330-06	75 in <sup>2</sup>	6		
PMP350-02	168 in <sup>3</sup>	2	12.88 x 14.75	3.75
PMP350-04		4		
PMP350-06		6		
PMP390-02	14 oz Cartridge Adapter	2	8.88 x 14.75	3.75
PMP390-04		4		
PMP390-06		6		

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# CENTRALIZED LUBRICATION SYSTEMS

## PMP400 SERIES - ELECTRIC PANEL MOUNT SYSTEMS

These "quick install" cost effective Centralized Lubrication Systems are pre-assembled with compatible components to minimize specification, purchasing and installation time. The automatic lubrication systems operate on a 120V, 60Hz 1Ph electrical supply for the motor. The systems are sized to meet most lubrication requirements where a compressed air supply is not available. Each feed pump is independently and externally adjustable 0 to .01 cu in (0 to .20 cu cm) by using a fine micrometer thread .02 (.57mm) pitch adjustment. Each feed pump will actuate once per minute of motor run time.

### Standard Materials:

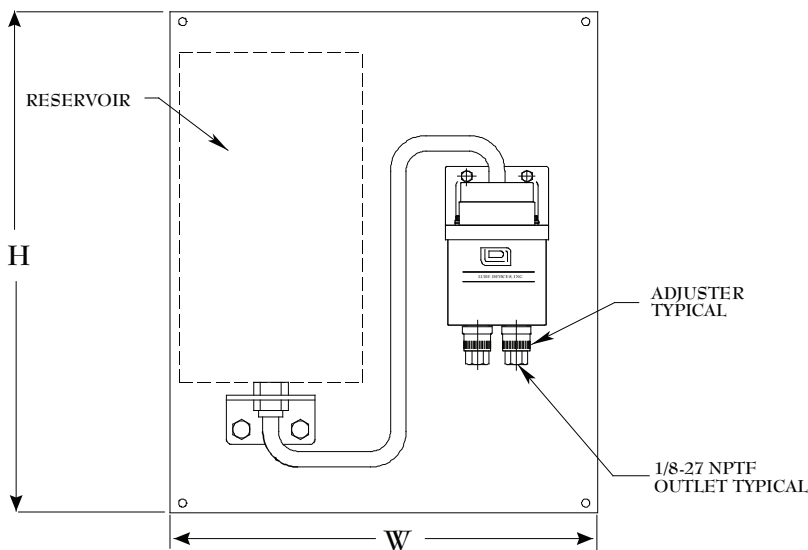
- Aluminum, Brass, Steel, transparent polymer
- Buna N & Viton® seals
- Nema compliant panels

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 120°F (48°C)
- Minimum operating temperature 0°F (-17°C), oil
- Minimum operating temperature 32°F (0°C), grease
- Maximum output pressure up to 50 PSIG (345 kPa)
- 120V, 60Hz, 4W

### CAUTION:

- For grease applications, the combination of higher viscosities, ambient temperatures lower than 32°F (0°C), excessively long runs of output feed lines, along with the type and use of smaller inside diameter feed lines, will have an effect on the feed rate and output capabilities of these pumps.



PMP400 Series (Oil Application)				
Part No.	Reservoir Capacity	No. of Feeds	Nema Panel W x H (inches)	O. A. Depth (inches)
PMP440-01	1 quart	1	10.88 x 12.75	4.75
PMP440-02		2		
PMP440-03		3		
PMP440-04		4		
PMP460-01	.5 gallon	1	10.88 x 12.75	6.00
PMP460-02		2		
PMP460-03		3		
PMP460-04		4		

PMP400 Series (Grease Application)				
Part No.	Reservoir Capacity	No. of Feeds	Nema Panel W x H (inches)	O. A. Depth (inches)
PMP430-01	75 in <sup>3</sup>	1	10.88 x 12.75	7.00
PMP430-02		2		
PMP430-03		3		
PMP430-04		4		
PMP450-01	168 in <sup>3</sup>	1	12.88 x 14.75	7.00
PMP450-02		2		
PMP450-03		3		
PMP450-04		4		
PMP490-01	14 oz Cartridge Adapter	1	8.88 x 14.75	4.00
PMP490-02		2		
PMP490-03		3		
PMP490-04		4		

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# CENTRALIZED LUBRICATION SYSTEMS

## PMP500 SERIES - PNEUMATIC NEMA MOUNT SYSTEMS

These "quick install" cost effective Centralized Lubrication Systems are pre-assembled with compatible components to minimize specification, purchasing and installation time. The automatic lubrication systems operate on 25 to 125 PSIG regulated & filtered shop air and a 120V, 60Hz 1Ph electrical supply for the included dual adjustable Repeat Cycle Timer and 3-Way Solenoid Valve. The systems are sized to meet most lubrication requirements. Each pump outlet is independently and externally adjustable 0 to .01 cu in (0 to .20 cu cm) by using a fine micrometer thread .02 (.57mm) pitch adjustment.

### Standard Materials:

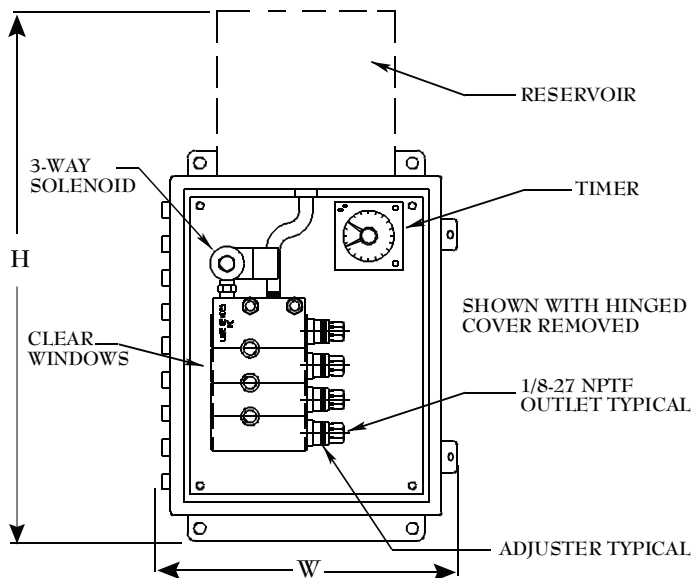
- Aluminum, Brass, Steel, transparent polymer
- Buna N & Viton® seals
- Patined Steel Nema Type 12 & 13 Box

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 120°F (48°C)
- Minimum operating temperature 0°F (-17°C), oil
- Minimum operating temperature 32°F (0°C), grease
- Maximum output pressure up to 300 PSIG (2068 kPa)

### CAUTION:

- For grease applications, the combination of higher viscosities, ambient temperatures lower than 32°F (0°C), excessively long runs of output feed lines, along with the type and use of smaller inside diameter feed lines, will have an effect on the feed rate and output capabilities of these pumps.



PMP500 Series (Oil Application)				
Part No.	Reservoir Capacity	No. of Feeds	Nema Panel W x H (inches)	O. A. Depth (inches)
PMP540-04	1 quart	4	9.00	6.38
PMP540-06		6	x	
PMP540-08		8	18.00	
PMP560-06	.5 gallon	6	9.00	6.56
PMP560-08		8	x	
PMP560-12		12	20.12	

PMP500 Series (Grease Application)				
Part No.	Reservoir Capacity	No. of Feeds	Nema Panel W x H (inches)	O. A. Depth (inches)
PMP530-02	75 in <sup>3</sup>	2	9.00	6.56
PMP530-04		4	x	
PMP530-06		6	19.80	
PMP550-02	168 in <sup>3</sup>	2	9.00	6.56
PMP550-04		4	x	
PMP550-06		6	24.55	

**MODIFICATIONS AVAILABLE MADE TO ORDER - CONSULT OUR FACTORY  
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# CENTRALIZED LUBRICATION SYSTEMS

## PMP600 SERIES - ELECTRIC NEMA MOUNT SYSTEMS

These "quick install" cost effective Centralized Lubrication Systems are pre-assembled with compatible components to minimize specification, purchasing and installation time. The automatic lubrication systems operate on a 120V, 60Hz 1Ph electrical supply for the motor. The systems are sized to meet most lubrication requirements where a compressed air supply is not available. Each pump outlet is independently and externally adjustable 0 to .01 cu in (0 to .20 cu cm) by using a fine micrometer thread .02 (.20 mm) pitch adjustment. Each pump outlet will actuate once per minute of motor run time.

### Standard Materials:

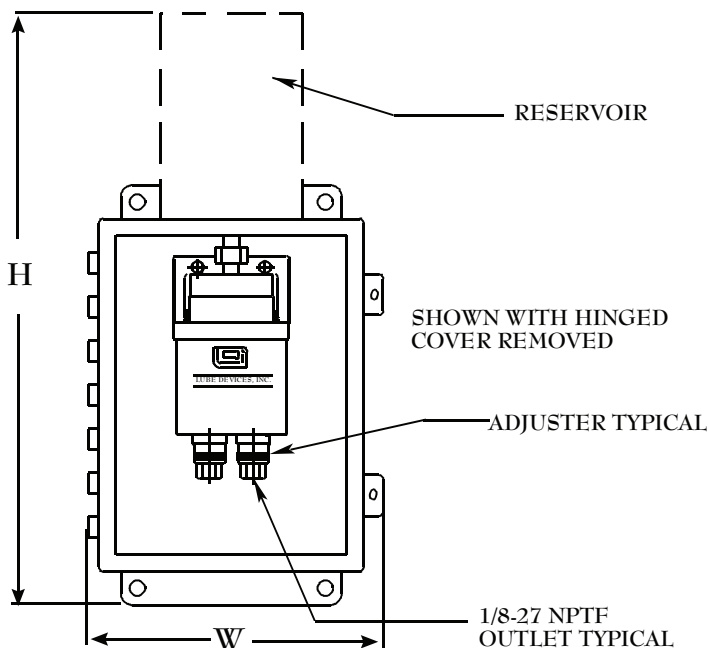
- Aluminum, Brass, Steel, transparent polymer
- Buna N & Viton® seals
- Patined Steel Nema Type 12 & 13 Box

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 120°F (48°C)
- Minimum operating temperature 0°F (-17°C), oil
- Minimum operating temperature 32°F (0°C), grease
- Maximum output pressure up to 50 PSIG (345 kPa)
- 120V, 60Hz, 4W

### CAUTION:

- For grease applications, the combination of higher viscosities, ambient temperatures lower than 32°F (0°C), excessively long runs of output feed lines, along with the type and use of smaller inside diameter feed lines, will have an effect on the feed rate and output capabilities of these pumps.



PMP600 Series (Oil Application)				
Part No.	Reservoir Capacity	No. of Feeds	Nema Panel W x H (inches)	O. A. Depth (inches)
PMP640-01	1 quart	1	7.00 x 16.00	6.38
PMP640-02		2		
PMP640-03		3		
PMP640-04		4		
PMP660-01	.5 gallon	1	7.00 x 18.12	
PMP660-02		2		
PMP660-03		3		
PMP660-04		4		

PMP600 Series (Grease Application)				
Part No.	Reservoir Capacity	No. of Feeds	Nema Panel W x H (inches)	O. A. Depth (inches)
PMP630-01	75 in <sup>3</sup>	1	7.00 x 17.80	6.56
PMP630-02		2		
PMP630-03		3		
PMP630-04		4		
PMP650-01	168 in <sup>3</sup>	1	7.00 x 22.55	
PMP650-02		2		
PMP650-03		3		
PMP650-04		4		

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# CENTRALIZED LUBRICATION SYSTEMS

## REPEAT CYCLE TIMER

This versatile timer is ideal for controlling the 3-Way Normally Closed Air Solenoid Valve (Part No: 832160) used to activate PMP100 when a PLC, touch activated switch, photo cell or proximity sensor are not available.

### Standard Materials:

- Molded plastic
- Screw terminals
- Operating instructions included
- Mounting hardware not furnished
- 8-Pin mounting base

### NOTE:

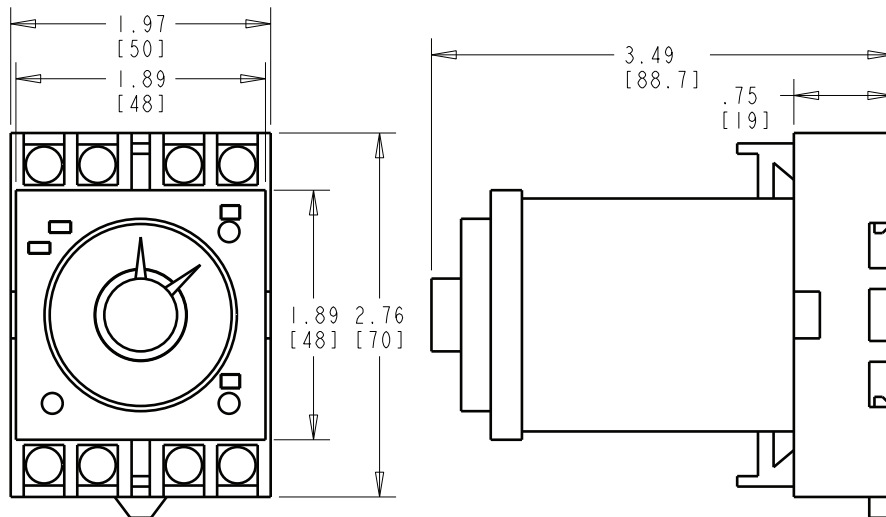
- Recommended for use with PMP100 grease applications

### Standard Features:

- "On time" setting energizes the solenoid valve which activates the PMP100.
- "Off time" setting de-energizes the solenoid valve which allows the PMP100 to reset for the next cycle and controls when that next cycle will occur.
- Will accommodate most industrial applications.
- Can be wired through a relay so it is only active when the "machine" to be lubricated by the PMP100 is actually running; or, it can be wired uninterrupted for continual operation.

### Operating Conditions:

- For operation on 100 to 240V, 60Hz, 1Ph
- Output DPDT rated 5A max @ 240V, 60Hz, 1Ph
- Independently adjustable on time & off time by multiple ranges of 1.20 seconds to 300 hours
- 0.10 to 10.10 minute adjustable off time
- 14°F(-10°C) to 131°F(55°C) operating temperature



**NOTE:** All dimensions are inches [mm]



### Repeat Cycle Timer

Part No.

833380

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# CENTRALIZED LUBRICATION SYSTEMS

## SOLENOID VALVE

This compact low wattage 3-way valve is ideally suited for operating the PMP100. This 3-way valve should be mounted close to the PMP100 to insure a fast response time and minimize the quantity of compressed air used.

### Standard Materials:

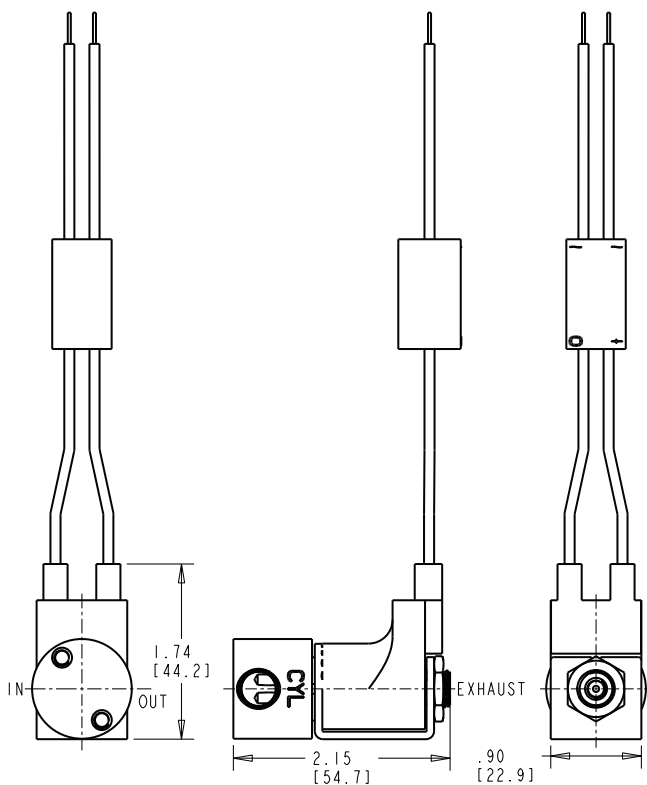
- Brass body (with two #8-32UNF-2B mounting holes) and stainless steel internals compatible with air, water and inert gasses
- Class F, Nema 4 / 4X molded coil

### Standard Features:

- 1/8-27 NPT inlet and outlet ports
- 1/16 inch diameter orifice
- #10-32UNF-2B exhaust port
- #20 AWG lead wires, 18 inches long

### Operating Conditions:

- For operation on 120V, 60Hz, 1Ph; 6W
- 125 PSIG max working pressure
- -40°F(-40°C) to +180°F(+82°C) media temperature
- +311°F(+155°C) max coil operating temperature



### Solenoid Valve

Part No.

832160

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# CHAIN OILERS & APPLICATORS

## NVB SERIES - STRAIGHT VALVE BRUSH, ROUND OR FLAT

The NVB Series of brushes with metering valves are designed to apply lubricant to chain drives and they can be connected in series to lubricate several points and feed from a central reservoir.

Straight valve with either a round or flat brush can be used to apply lubricant to chain drives traveling in a horizontal or slightly inclined plane. Valve brushes for vertical chains are available. Used with reservoir series **RFF/REF**.

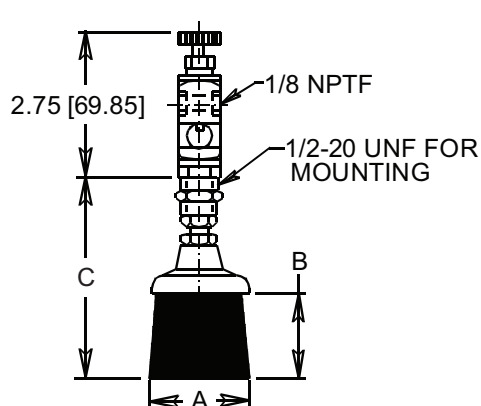
### Standard Materials:

- Aluminum construction body
- Nylon brush
- Pipe threads are dryseal

### Temperature Rating:

- Nylon maximum working temperatures up to 250°F (121°C)

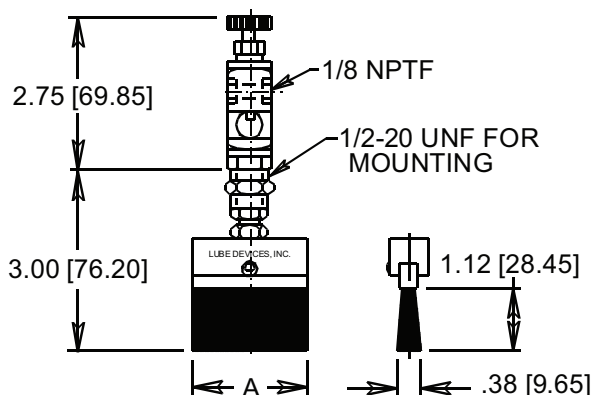
## NVB100 SERIES - STRAIGHT VALVE WITH ROUND BRUSH



Straight Valve w/Round Brush				
Part No.	Brush Material	A Dia inches (mm)	B inches (mm)	C inches (mm)
NVB103-2	Nylon	1.00 (25.40)	1.62 (41.15)	3.62 (91.95)
NVB103-3	Stainless Steel			

**NOTE:** All dimensions are inches [mm]

## NVB300 SERIES - STRAIGHT VALVE WITH FLAT BRUSH



Straight Valve w/Flat Brush		
Part No.	Brush Material	A inches (mm)
NVB301-2	Nylon	.50 (12.70)
NVB303-2	Nylon	1.00 (25.40)
NVB304-2	Nylon	1.50 (38.10)
NVB304-3	Stainless Steel	
NVB305-2	Nylon	2.25 (57.15)
NVB305-3	Stainless Steel	

**NOTE:** All dimensions are inches [mm]

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# CHAIN OILERS & APPLICATORS

## NVB SERIES - 45° VALVE WITH FLAT BRUSH

The NVB Series of brushes with metering valves are designed to apply lubricant to chain drives and they can be connected in series to lubricate several points and feed from a central reservoir.

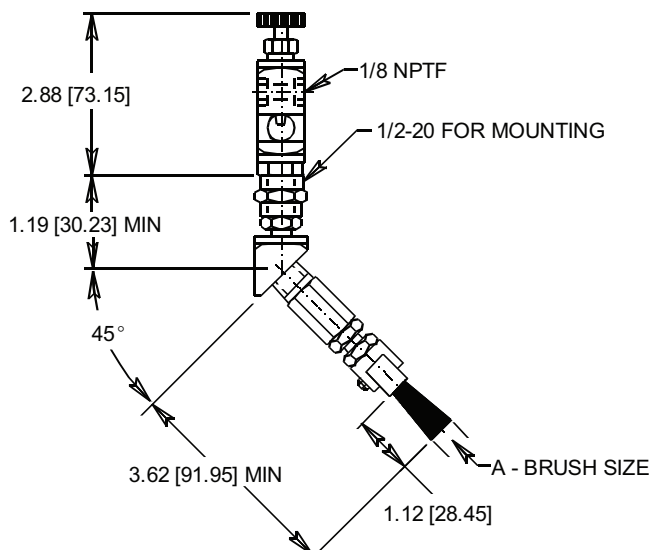
These are for applications where conditions require the lubricant to be applied at an angle. Two sizes of brushes allow selection to fit almost any chain width.

### Standard Materials:

- Aluminum construction body
- Nylon brush
- Pipe threads are dryseal

### Temperature Rating:

- Nylon maximum working temperatures up to 250°F (121°C)



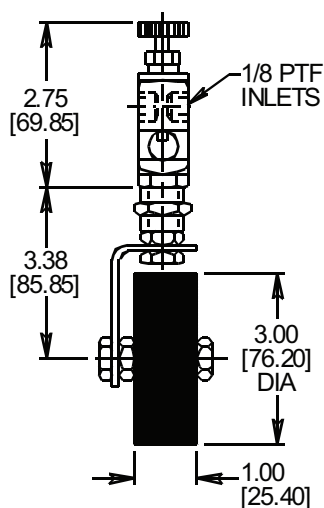
**NOTE:** All dimensions are inches [mm]



### 45° Valve with Flat Brush

Part No.	A Brush Size inches (mm)
NVB353-2	1.00 x .38 (25.40 x 9.65)
NVB354-2	1.50 x .38 (38.10 x 9.65)

## NVB SERIES - ROTARY WHEEL VALVE BRUSH



**NOTE:** All dimensions are inches [mm]



### Rotary Wheel Valve Brush

Part No.
NVB401-2

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# CHAIN OILERS & APPLICATORS

## RDB300 SERIES

The RDB300 Series of manual control chain oilers offers a selection of nine long wearing nylon or stainless steel bristle brushes. The toggle shut-off on the reservoir can be turned on and off without affecting the previously set feed rate. The drip rate is clearly visible through the large viewing window in the mounting shank. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir.

There are five sizes of flat brushes available allowing inexpensive brush replacement at a fraction of former cost. Flat brushes can be set at bias to adapt to width needed or be trimmed to suit individual preferences.

### Standard Materials:

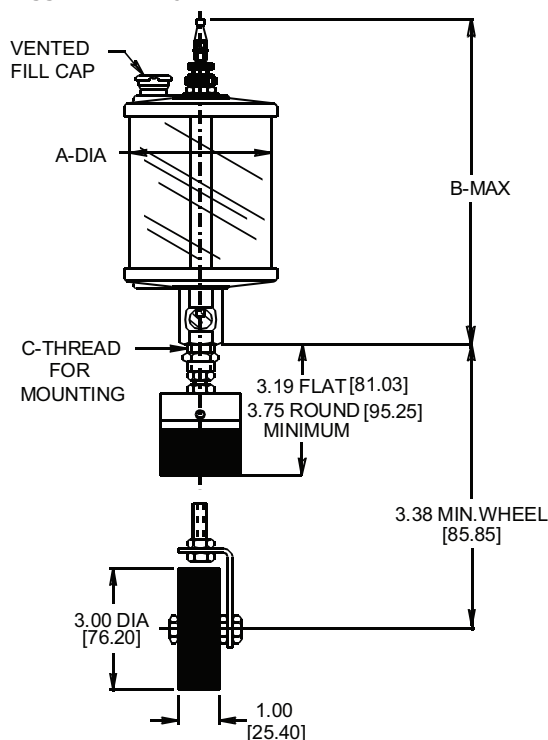
- Aluminum construction
- Buna N seals
- Break resistant, colorless transparent polymer

### Standard Features:

- Central mounting shank facilitates mounting to customer supplied bracket
- Easily disassembled for occasional cleaning

### NOTE:

- Please refer to Appendix LE-3 on page LE-A3 for Toggle Valve Adjustment Instructions



NOTE: All dimensions are inches [mm]

RDB300 Series				
Part No.	Capacity	A inches (mm)	B inches (mm)	C Thread UNF
RDB303	2.50 oz (73.90 mL)	2.00 (50.80)	5.19 (131.83)	1/2-20
RDB304	5.00 oz (147.90 mL)	2.50 (63.50)	5.75 (146.05)	1/2-20
RDB306	9.00 oz (266.20 mL)	3.00 (76.20)	7.00 (177.80)	5/8-18
RDB307	12.00 oz (354.90 mL)	3.00 (76.20)	8.38 (212.85)	5/8-18
RDB308	1.00 pt (.47 L)	3.50 (88.90)	8.38 (212.85)	5/8-18
RDB309	1.00 qt (.95 L)	4.25 (107.95)	9.38 (238.25)	5/8-18
RDB310	.50 gal (1.90 L)	5.50 (139.70)	11.31 (287.27)	5/8-18
RDB311	1.00 gal (3.80 L)	5.50 (139.70)	16.31 (414.27)	5/8-18

### Temperature and Pressure Ratings:

- Polymer maximum working temperature up to 140° F (60°C)
- Nylon brush maximum working temperature up to 250°F (121°C)
- Stainless steel brush for maximum working temperature over 250°F (121°C)
- Ratings are at atmospheric pressure



### ORDERING OPTIONS:

Order Suffix	Option
Material	
-N	Nylon bristle
-S	Stainless steel bristle
Size	
-1	.50 in x .38 in (12.70 mm x 9.65 mm) flat brush
-2	.75 in x .38 in (19.05 mm x 9.65 mm) flat brush
-3	1.00 in x .38 in (25.40 mm x 9.65 mm) flat brush
-4	1.50 in x .38 in (38.10 mm x 9.65 mm) flat brush
-5	2.25 in x .38 in (57.15 mm x 9.65 mm) flat brush
-6	.62 in (15.75 mm) diameter round brush
-7	1.00 in (25.40 mm) diameter round brush
-8	1.50 in (38.10 mm) diameter round brush
-9	3.00 in (76.20 mm) diameter x 1.00 in (25.40 mm) rotary wheel

### HOW TO ORDER

#### EXAMPLE:

**RDB308-N-3** — 1.00 x .38 inch (25.40 mm x 9.65 mm) flat brush  
Nylon bristle  
Series RDB308, 1 pint (.47 liter) capacity reservoir

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# CHAIN OILERS & APPLICATORS

## REB SERIES

The REB Series of electro chain oilers offers a selection of nine long wearing nylon or stainless steel bristle brushes. For automatic operation, wire the normally closed solenoid starting switch; feeding stops when machine is turned off. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir.

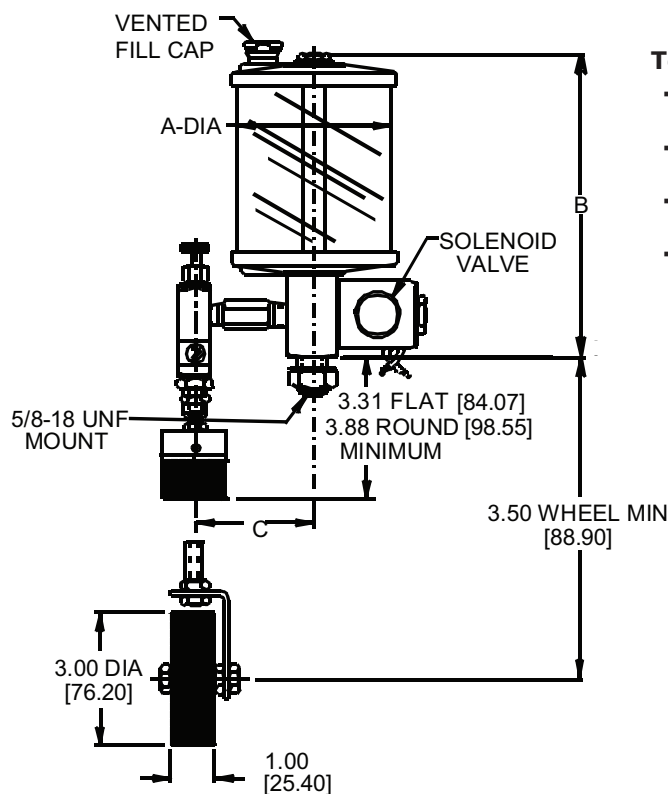
There are five sizes of flat brushes available allowing inexpensive brush replacement at a fraction of former cost. Flat brushes can be set at bias to adapt to width needed or be trimmed to suit individual preferences.

### Standard Materials:

- Aluminum top and bottom plates
- Buna N seals
- Break resistant, colorless transparent polymer
- Class "B" molded water resistant coil

### Standard Features:

- Central mounting shank facilitates mounting to customer supplied bracket
- Reservoir provides a quick, visual check of fluid level and condition
- Unit is easily disassembled for occasional cleaning



**NOTE:** All dimensions are inches [mm]

### Temperature and Pressure Ratings:

- Polymer maximum working temperature up to 140°F (60°C)
- Nylon brush maximum working temperature up to 250°C (121°C)
- Stainless steel brush for maximum working temperature over 250°F (121°C)
- Ratings are at atmospheric pressure



### ORDERING OPTIONS:

Order Suffix	Option
<b>Material</b>	
-N	Nylon bristle
-S	Stainless steel bristle
<b>Size</b>	
-1	.50 in x .38 in (12.70 mm x 9.65 mm) flat brush
-2	.75 in x .38 in (19.05 mm x 9.65 mm) flat brush
-3	1.00 in x .38 in (25.40 mm x 9.65 mm) flat brush
-4	1.50 in x .38 in (38.10 mm x 9.65 mm) flat brush
-5	2.25 in x .38 in (57.15 mm x 9.65 mm) flat brush
-6	.62 in (15.75 mm) diameter round brush
-7	1.00 in (25.40 mm) diameter round brush
-8	1.50 in (38.10 mm) diameter round brush
-9	3.00 in (76.20 mm) diameter x 1.00 in (25.40 mm) rotary wheel
<b>Solenoid Valve</b>	
-26	120V, 60Hz, 1 Ph class B
-27	240V, 60Hz, 1 Ph class B
-28	480V, 60Hz, 1 Ph class B
-43	24V DC

### HOW TO ORDER

#### EXAMPLE:

**REB309-N-4-26** — 120V, 60Hz, 1 Ph class B  
 1.50 in x .38 in (38.10 mm x 9.65 mm) flat brush  
 Nylon bristle  
 Series REB309, 1 quart (.95 L) capacity reservoir

<b>REB Series</b>				
Part No.	Capacity	A inches (mm)	B inches (mm)	C inches (mm)
REB303	2.50 oz (73.90 mL)	2.00 (50.80)	4.69 (119.13)	1.62 (41.15)
REB304	5.00 oz (147.90 mL)	2.50 (63.50)	5.19 (131.83)	1.88 (47.75)
REB306	9.00 oz (266.20 mL)	3.00 (76.20)	6.00 (152.40)	2.44 (61.98)
REB307	12.00 oz (354.90 mL)	3.00 (76.20)	7.00 (177.80)	2.44 (61.98)
REB308	1.00 pt (.47 L)	3.50 (88.90)	7.00 (177.80)	2.56 (65.02)
REB309	1.00 qt (.95 L)	4.25 (107.95)	8.44 (214.38)	2.88 (73.15)
REB310	.50 gal (1.90 L)	5.50 (139.70)	10.44 (265.18)	3.62 (91.95)
REB311	1.00 gal (3.80 L)	5.50 (139.70)	15.44 (392.18)	3.62 (91.95)

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# CHAIN OILERS & APPLICATORS

## REPLACEMENT BRUSHES

The LDI Replacement Brushes are direct replacements for shank or valve brushes and manual or electric chain oiler brushes. These three styles meet any lubrication requirement. The round brush is an all-in-one brush and holder unit. The flat brush is available as a flat strip only or complete with brush and holder.

Brushes are interchangeable, but if the style is changed from round to flat for instance, the flat brush with holder should be ordered, since the holder is an integral part of the brush.

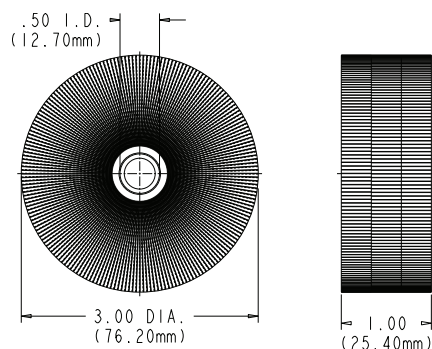
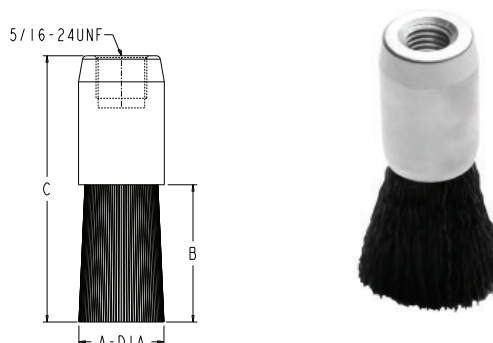
### Standard Material:

- Long wearing nylon bristles

### Temperature Ratings:

- Nylon maximum working temperature up to 250°F (121°C)
- For temperatures over 250°F (121°C), please specify stainless steel

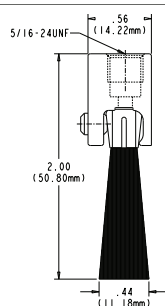
Round Brushes				
Part No.	Brush Material	A inches (mm)	B inches (mm)	C inches (mm)
<b>B102-2</b>	Nylon	.62 (15.75)	1.00 (25.40)	1.94 (49.28)
<b>B103-2</b>	Nylon	1.00 (25.40)	1.62 (41.15)	2.62 (66.55)
<b>B103-3</b>	Stainless Steel			



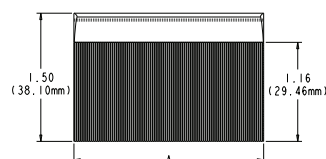
**NOTE:** All dimensions are inches (mm)

Rotary Brush	
Part No.	Brush Material
<b>B161-2</b>	Nylon

### Flat With Holder



### Flat



**NOTE:** All dimensions are inches (mm)

Flat Brushes and with Holder			
Part No. (Flat Brush)	Part No. (w/Holder)	Brush Material	A inches (mm)
<b>B151-2</b>	—	Nylon	.50 (12.70)
<b>B153-2</b>	<b>B123-2</b>	Nylon	1.00 (25.40)
<b>B154-2</b>	<b>B124-2</b>	Nylon	1.50 (38.10)
<b>B155-2</b>	<b>B125-2</b>	Nylon	2.25 (57.15)
<b>B155-3</b>	<b>B125-3</b>	Stainless Steel	

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# CHAIN OILERS & APPLICATORS

## SB SERIES

The SB Series of shank brushes can be remotely mounted and fed from valves on a central dispenser. Available with either round or flat brush.

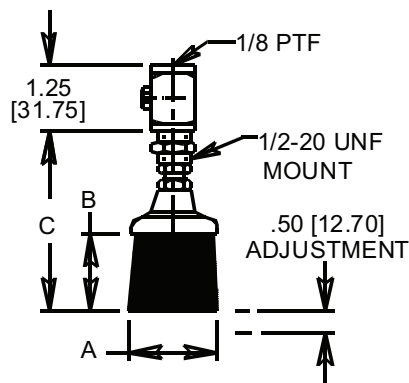
### Standard Materials:

- Aluminum construction
- Pipe threads are dryseal
- Brush material either nylon or stainless steel

### Temperature Ratings:

- Nylon maximum working temperature up to 250°F (121°C)
- For temperatures over 250°F (121°C), please specify stainless steel

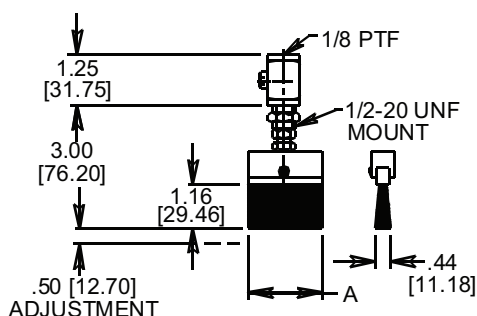
SB Series - Round Shank Brush				
Part No.	Brush Material	A Dia inches (mm)	B Dia inches (mm)	C inches (mm)
SB102-2	Nylon	.62 (15.75)	1.00 (25.40)	3.00 (76.20)
SB103-2	Nylon	1.00 (25.40)	1.62 (41.15)	3.62 (91.95)
SB104-2	Nylon	1.50 (38.10)	1.62 (41.15)	3.62 (91.95)



**NOTE:** All dimensions are inches [mm]

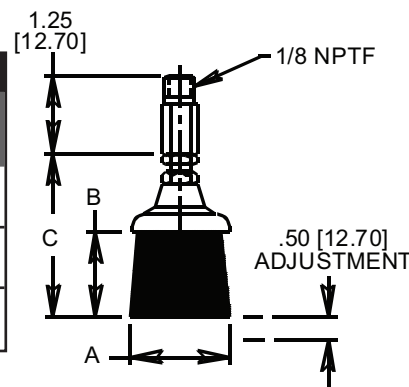
SB Series - Flat Shank Brush		
Part No.	Brush Material	A inches (mm)
SB301-2	Nylon	.50 (12.70)
SB303-2		1.00 (25.40)
SB304-2	Nylon	1.50 (38.10)
SB305-2		2.25 (57.15)

- Four sizes of flat insertable brushes are available
- .50 in (12.70 mm) adjustment for wear is provided



**NOTE:** All dimensions are inches [mm]

SB Series - Round & Flat Brush w/Pipe Thread				
Part No.	Brush Material	A inches (mm)	B inches (mm)	C inches (mm)
SB204-2	Nylon	1.50 Dia round (38.10)	1.62 (41.15)	3.00 (76.20)
SB204-3	Stainless Steel			
SB354-2	Nylon	1.50 x .44 Flat (38.10 x 11.18)	1.16 (29.46)	2.38 (60.45)
SB354-3	Stainless Steel			
SB355-2	Nylon	2.25 x .44 Flat (57.15 x 11.18)	1.16 (29.46)	2.38 (60.45)
SB355-3	Stainless Steel			



**NOTE:** All dimensions are inches [mm]

**NOTE: ALL SHANK BRUSHES SHOWN ON THIS SHEET REQUIRE SEPARATE CONTROL FOR FLUID METERING**

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# CHAIN OILERS & APPLICATORS

## SV SERIES

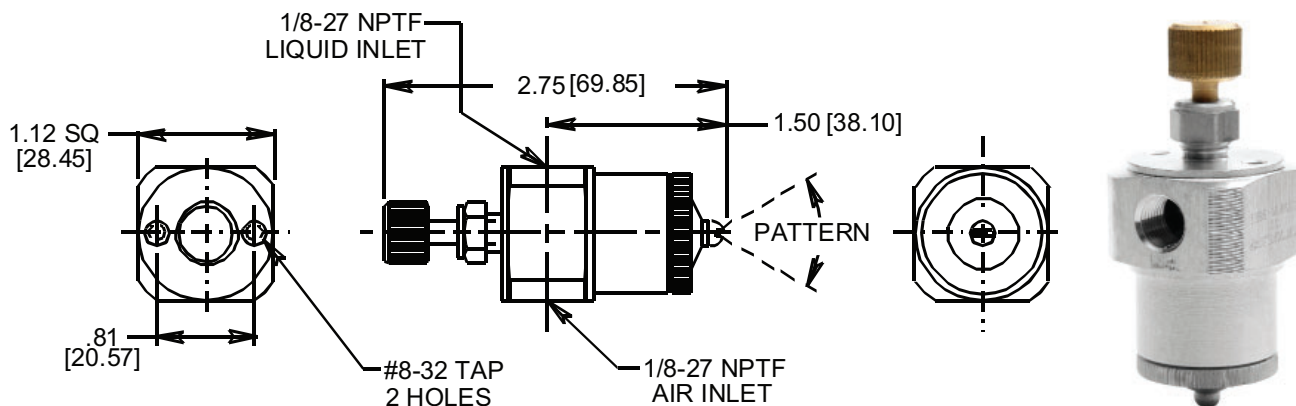
Spray valves when used with series RVP100 pressure reservoirs, will spray lubricant on bearings, rollers or chain. Sheet stock may be lubricated prior to blanking or drawing. Regulators on reservoir provide precise adjustment of fluid pressure and nozzle pressure to allow accurate control of pattern size, preventing excessive oiling and over spray.

### Standard Materials:

- Aluminum body
- Brass nozzle

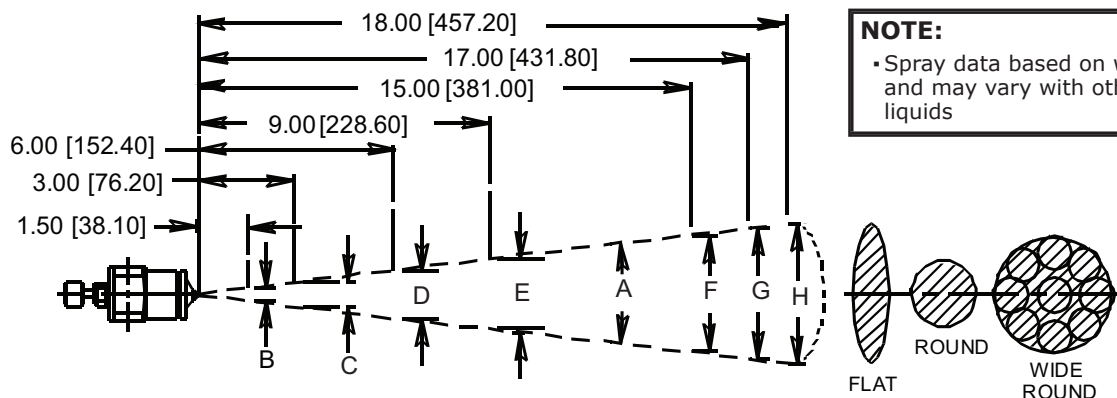
### CAUTION:

- Fluids above 750SSU at 69° F (20.6° C) subject to testing



**NOTE:** All dimensions are inches [mm]

SV Series												
Part No.	Spray Pattern	Air		Liquid PSI (kPa)	Angle A	Spray Dia. or width at a given distance from the nozzle Dimensions in inches (mm)						
		PSI (kPa)	SCFH (m³/H)			B	C	D	E	F	G	H
SV101	Flat	22 (152)	60 (1.70)	10 (69)	—	3.00 (76.20)	6.00 (152.40)	10.00 (254.00)	13.00 (330.20)	18.00 (457.20)	—	—
SV102	Round	12 (83)	45 (1.27)	10 (69)	12°	—	—	1.30 (33.02)	1.90 (48.26)	3.20 (81.28)	3.60 (91.44)	3.80 (96.52)
		20 (138)	50 (1.42)	20 (138)	13°	—	—	1.40 (35.56)	2.10 (53.34)	3.40 (86.36)	3.90 (99.06)	4.10 (104.14)
SV103	Wide Round	10 (69)	25 (.708)	10 (69)	—	—	—	5.50 (139.70)	7.00 (177.80)	9.00 (228.60)	—	—
		20 (138)	35 (.991)	20 (138)	—	—	—	6.00 (152.40)	7.50 (190.50)	9.50 (241.30)	—	—



### NOTE:

- Spray data based on water and may vary with other liquids

**NOTE:** All dimensions are inches [mm]

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# FLOW SIGHTS

## F50/60 SERIES

Compact design inline flow sights may be used in either horizontal or vertical pipe runs to indicate flow. May also be used to check clarity of fluid. Machined from solid brass bar stock with large sight windows.

### Standard Materials:

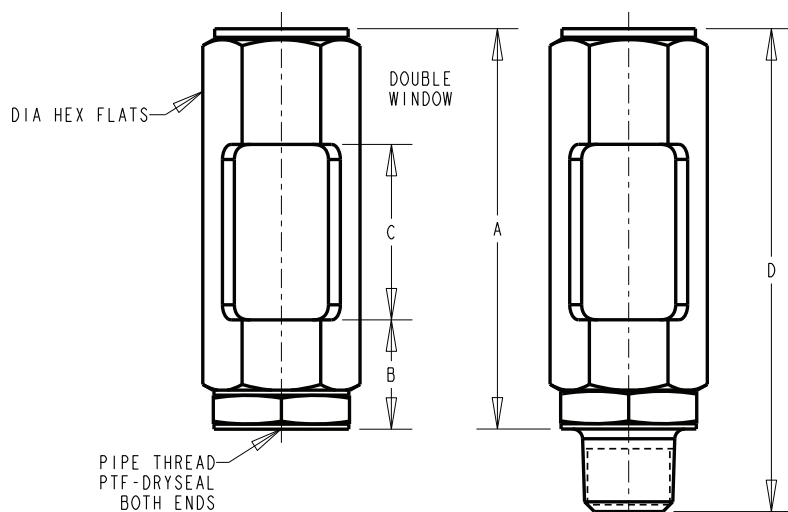
- Brass construction
- Buna N seals
- Borasilicate sight

### Temperature and Pressure Ratings:

- Maximum working temperature up to 200°F (93°C)
- Maximum working pressure up to 50 PSI (345 kPa) at 70°F (21°C)
- No corrosion

### Caution:

Scratched glass significantly reduces pressure rating.



F50/60 Series							
Part No.	Female X Male	Pipe Thread	Hex Flats inches (mm)	A inches (mm)	B inches (mm)	C inches (mm)	D inches (mm)
F52	F62	1/4-18	.81 (20.57)	2.41 (61.21)	.66 (16.76)	1.06 (26.92)	2.91 (73.91)
F53	—	3/8-18	1.12 (28.45)	2.38 (60.45)	.69 (17.53)	1.00 (25.40)	2.88 (73.15)
F56	—	1-11 1/2	2.50 (63.50)	3.50 (88.90)	.88 (22.35)	1.75 (44.45)	4.31 (109.47)
F57	—	1 1/4-11 1/2	2.50 (63.50)	3.50 (88.90)	.88 (22.35)	1.75 (44.45)	4.34 (110.24)

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# FLOW SIGHTS

## F150/160 SERIES

Inline flow sights can be used in either vertical or horizontal fluid lines to observe fluid flow, clarity or condition of medium. A ball float can be supplied to aid observation of flow of dark fluids or fluids in dimly lit conditions.

### Standard Materials:

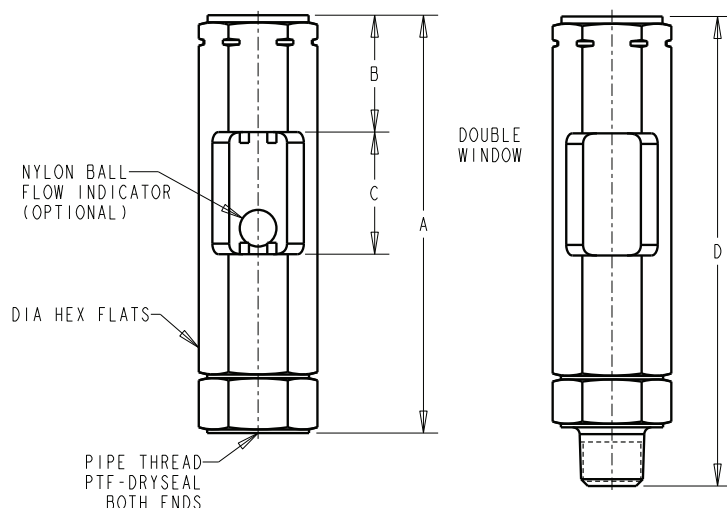
- Brass construction
- Buna N seals
- Borasilicate sight

### Temperature Ratings:

- Maximum working temperature up to 180°F (82°C)
- For applications requiring maximum working temperature over 180°F (82°C), please consult factory

### Caution:

Scratched glass significantly reduces pressure rating.



F150/160 Series									
Part No.									
Female x Female	Female x Male	Pipe Thread	Hex Flats inches (mm)	Orifice Dia. w/o Ball inches (mm)	A inches (mm)	B inches (mm)	C inches (mm)	D inches (mm)	Max. Working Pressure @ 150°F (65°C) PSI (kPa)
F151	—	1/8-27	.88 (22.35)	.234 (5.94)	3.34 (84.84)	.78 (19.81)	1.04 (26.42)	3.66 (92.96)	435 (2999)
F152	F162	1/4-18	.88 (22.35)	.234 (5.94)	3.56 (90.42)	1.00 (25.40)	1.04 (26.42)	4.00 (101.60)	435 (2999)
F153	F163	3/8-18	1.06 (26.92)	.312 (7.92)	4.25 (107.95)	1.12 (28.45)	1.12 (28.45)	4.75 (120.65)	425 (2930)
F154	—	1/2-14	1.25 (31.75)	.375 (9.52)	4.62 (117.35)	1.25 (31.75)	1.30 (33.02)	5.12 (130.05)	380 (2620)
F155	—	3/4-14	1.38 (35.05)	.500 (12.70)	5.25 (133.35)	1.35 (34.29)	1.36 (34.54)	5.41 (137.41)	345 (2379)
F156	—	1-11 1/2	1.62 (41.15)	.531 (13.49)	6.31 (160.27)	1.69 (42.93)	1.48 (37.59)	6.31 (160.27)	270 (1862)

### HOW TO ORDER:

To order F150/160 Series flow sights with a float ball, add **-01** after the part number.

**Example**  
**F151-01**

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# FLOW SIGHTS

## F250 SERIES

Inline double window flow sights can be used to determine flow, clarity of fluid and impurities in either horizontal or vertical pipe runs. Nylon ball flow indicator gives positive flow indication with dark or opaque fluids.

### Standard Materials:

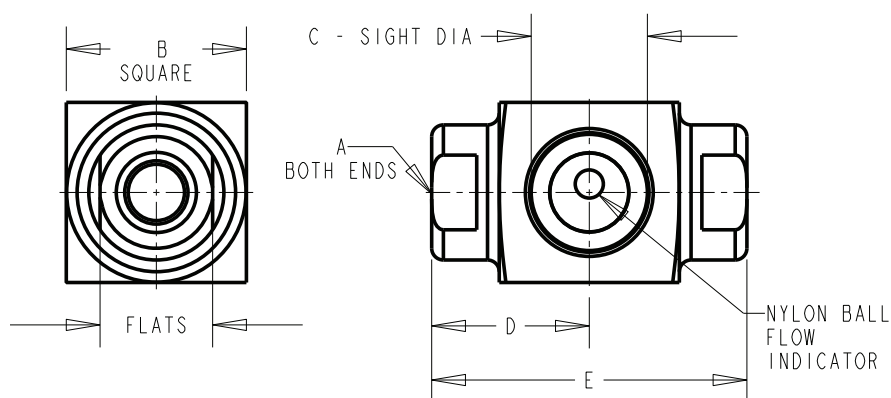
- Brass body
- Tempered borosilicate sight window
- Buna N seals

### Temperature Ratings:

- Maximum working temperature up to 180°F (82°C)
- For applications requiring maximum working temperature over 180°F (82°C), please consult factory

### Caution:

Scratched glass significantly reduces pressure rating.



F250 Series						
Part No.		A	B	C	D	E
No Ball	Ball	Female NPTF	inches (mm)	inches (mm)	inches (mm)	inches (mm)
—	F251-04-01	1/2-14	2.00 (50.80)	.88 (23.35)	1.75 (44.45)	3.50 (88.90)
—	F251-05-01	3/4-14	2.25 (57.15)	.88 (23.35)	1.75 (44.45)	3.50 (88.90)
—	F251-06-01	1-11 1/2	2.50 (63.50)	1.38 (35.05)	2.31 (58.67)	4.62 (117.35)
F251-08	—	1 1/2-11 1/2	3.00 (76.20)	1.88 (47.75)	2.88 (73.15)	5.75 (146.05)

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# FLOW SIGHTS

## F300 SERIES

Wide view flow sights can be used in either horizontal or vertical pipe runs to observe fluid flow clarity. Large cylindrical sight allows 360° viewing and flow is readily seen from a distance, in elevated or dimly lighted conditions. In vertical pipe run, fluid flow should come in from bottom to note ball action as a flow indicator. The ball stop slightly restricts flow.

### Standard Materials:

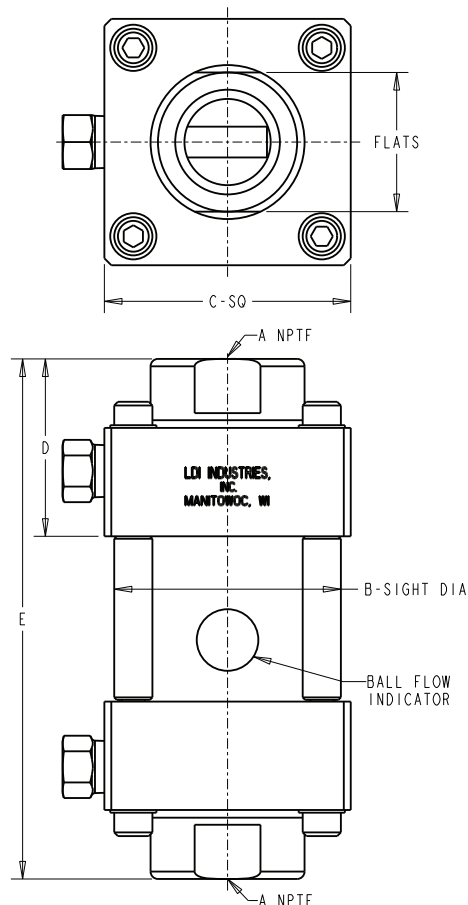
- Brass construction
- Borosilicate sight
- Buna N seals
- Nylon ball indicator

### Temperature and Pressure Ratings:

- Noted below in chart

### Caution:

Scratched glass significantly reduces pressure rating.



F300 Series						Max Working Pressure @ Temperature Shown	
Part No.	A Female NPTF	B inches (mm)	C inches (mm)	D inches (mm)	E inches (mm)	PSI (kPa)	°F (°C)
F301-04-01	1/2-14	1.75 (44.45)	2.00 (50.80)	1.44 (36.58)	4.25 (107.95)	130 (896)	212 (100)
F301-05-01	3/4-14	1.75 (44.45)	2.00 (50.80)	1.44 (36.58)	4.25 (107.95)	130 (896)	212 (100)
F301-06-01	1-11 1/2	1.75 (44.45)	2.25 (57.15)	1.75 (44.45)	4.88 (123.95)	130 (896)	212 (100)
F301-07-01	1 1/4-11 1/2	2.50 (63.50)	3.00 (76.20)	1.75 (44.45)	5.62 (142.75)	100 (690)	185 (85)
F301-08-01	1 1/2-11 1/2	2.50 (63.50)	3.00 (76.20)	1.88 (47.75)	5.88 (149.35)	100 (690)	185 (85)
F301-09-01	2-11 1/2	3.50 (88.90)	4.00 (101.60)	1.88 (47.75)	7.50 (190.50)	60 (414)	150 (65)

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# FLOW SIGHTS

## F560 SERIES

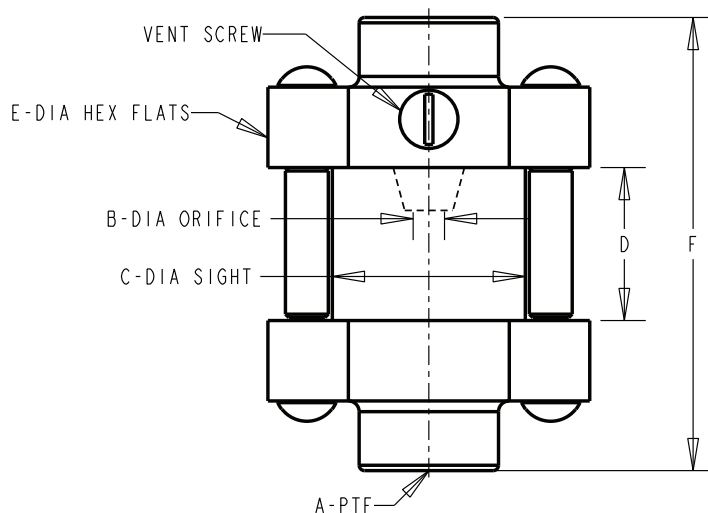
Wide view flow sights with a restrictor orifice and cylindrical sight provide maximum 360° visual observation of fluid flow, color and clarity. Mount on the downstream side of vertical lines on cooling or lubricating systems.

### Standard Materials:

- Aluminum construction
- Clear polymer sight
- Buna N seals

### Temperature and Pressure Ratings:

- Maximum working temperature up to 140°F (60°C)
- Maximum working pressure of orifice up to 125 PSI (862 kPa)



F560 Series						
Part No.	A Thread	B inches (mm)	C inches (mm)	D inches (mm)	E inches (mm)	F inches (mm)
F561-02	1/4-18	.19 (4.83)	1.12 (28.45)	.88 (22.35)	1.62 (41.15)	2.62 (66.55)
F562-01	1/8-27	.16 (4.06)	1.50 (38.10)	1.19 (30.23)	2.00 (50.80)	3.12 (79.25)
F562-03	3/8-18	.25 (6.35)	1.50 (38.10)	1.19 (30.23)	2.00 (50.80)	3.12 (79.25)
F563-04	1/2-14	.38 (9.65)	2.00 (50.80)	1.69 (42.93)	2.62 (66.55)	4.25 (107.95)
F563-05	3/4-14	.50 (12.70)	2.00 (50.80)	1.69 (42.93)	2.62 (66.55)	4.25 (107.95)
F564-06	1-11 1/2	.62 (15.75)	2.50 (63.50)	2.06 (52.32)	3.00 (76.20)	5.38 (136.65)

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# INLINE FILTER - LIQUID

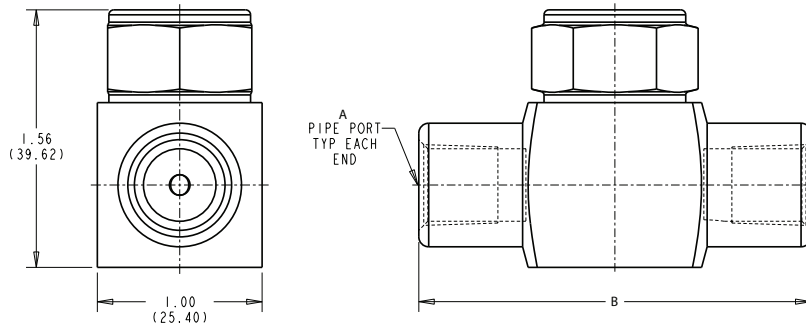
The Liquid Inline Filter can be used in liquid lines where dirt or particles could cause clogging, such as oil going to a spray valve. The inline cap can be taken off to clean the filter without dismantling unit from the line.

## Standard Materials:

- Brass construction
- Buna N seals
- 40 micron filter

## Temperate and Pressure Ratings:

- Maximum working pressure up to 150 PSI (1034 kPa)
- Maximum temperature up to 175°F (79°C)



**NOTE:** All dimensions are inches (mm)



Inline Filter - Liquid		
Part No.	A PTF	B inches (mm)
LF201-02	1/4-18	2.38 (60.45)
LF201-03	3/8-18	2.62 (66.55)

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# LUBRICATORS & DISPENSERS

## GUN-FIL® LUBRICATOR

The GUN-fil® Lubricator series can be used to replace grease fittings in new or existing applications. They can be mounted in any position horizontally, vertically, or inclined at any angle. Mating thread can be either standard pipe thread (NPT) or dryseal (NPTF) threads. All GUN-fil® Lubricators feature single point, spring loaded grease applicator which feeds each individual bearing only the amount of lubricant required. Economical to use valve or grease flow reducer which feeds only while bearing is in motion, flow of grease ceases when bearing stops. Quick visual refill check-colored stem indicator lowers to show when refill is needed. Lubricator comes standard with straight grease fitting. Optional fittings are available as listed below.

### Standard Material:

- Rugged steel construction for maximum service life in harshest of conditions.

### Standard Valve Speeds (color indicators):

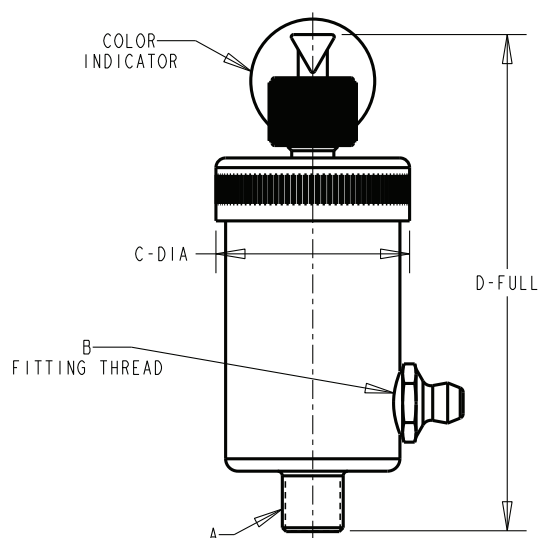
- Red (slow feed) for high ambient temperatures, close or tight fitting bearings, intermittent operations
- Green (fast feed) for low ambient temperatures, loose fitting bearings, continuous operation

### Standard Feed Rates (adjustable):

- No.1 for bearings up to 50 sq. in. (1270 sq. mm)
- No.2 for bearings 50 to 100 sq. in. (1270 to 2540 sq. mm)
- No.3 for bearings 100 to 250 sq. in. (2540 to 6350 sq. mm)
- No.4 for bearings 250 to 400 sq. in. (6350 to 10160 sq. mm)

### Temperature Ratings:

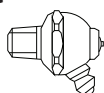
- Maximum operating temperatures up to 160°F (71°C)
- For applications requiring maximum operating temperatures of 160°F (71°C) and above, please consult factory



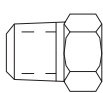
GUN-fil® Lubricator						
Part No.	Size and Capacity	Valve Color	A Shank	B Thread	C inches (mm)	D inches (mm)
<b>201452</b>	#1 .50 oz (14.80 mL)	RED	1/8-27	1/8-27	1.25 (31.75)	4.15 (105.41)
<b>201453</b>		GREEN				
<b>201464</b>	#2 1.75 oz (51.80 mL)	RED	3/8-18	1/4-18	2.50 (63.50)	4.35 (110.49)
<b>201465</b>		GREEN				
<b>201468</b>	#3 3.50 oz (103.50 mL)	RED	3/8-18	1/4-18	2.50 (63.50)	6.21 (157.73)
<b>201469</b>		GREEN				
<b>201472</b>	#4 8.00 oz (236.60 mL)	RED	3/4-14	1/4-18	3.25 (82.55)	9.74 (247.40)
<b>201473</b>		GREEN				

### OPTIONAL FITTINGS

**PRESSURE RELIEF  
GREASE FITTING**  
1/8-27PTF  
P/N 809310



**ADAPTER**  
1/4-18 MALE  
BY 1/8-27 FEMALE  
P/N PF101-4-2



To prevent over-filling, order grease fitting with integral pressure relief valve (P/N 809310) Fits **GUN-fil® LUBRICATOR** size #1 (1/8 inch female thread). To fit sizes #2, #3 and #4, also order adapter (P/N PF101-4-2).

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# LUBRICATORS & DISPENSERS

## R100 SERIES

### GRAVITY FEED W/OUT FLOW CONTROL

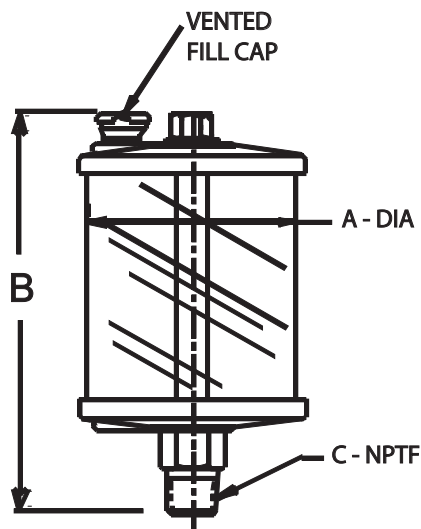
The R100 Series of gravity feed reservoirs without flow control are ideal for use as make-up or replenishing reservoirs. They can be installed in most cases to serve both as an oil cup to maintain oil level and as an oil gage to provide 360° visual check of fluid level and condition. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir. Reservoirs can be disassembled for occasional cleaning.

#### Standard Materials:

- Aluminum construction
- Buna N seals
- Break resistant colorless transparent polymer
- Borosilicate glass for fluid compatibility and thermal shock

#### Temperature and Pressure Ratings:

- Polymer maximum working temperature up to 140°F (60°C)
- Glass maximum working temperature up to 250°F (121°C)
- Ratings are at atmospheric pressure.



**MODIFICATIONS AVAILABLE MADE TO ORDER - CONSULT OUR FACTORY (MINIMUM ORDER MAY BE REQUIRED)**

**R100 Series Gravity Feed Reservoir without Flow Control**

Part No.		Capacity	A inches (mm)	B inches (mm)	C Thread NPTF
Polymer	Glass				
R151-01	—	1.00 oz (29.60 mL)	1.50 (38.10)	3.00 (76.20)	1/8
R151-02	R151-12			3.19 (81.03)	1/4
R152-01	—	1.38 oz (40.70 mL)	1.75 (44.45)	2.94 (74.68)	1/8
R152-02	—			2.95 (74.93)	1/4
R153-01	—	1.75 oz (51.80 mL)	2.00 (50.80)	3.12 (79.25)	1/8
R153-02	—			3.38 (85.85)	1/4
R154-01	R154-11	2.50 oz (73.90 mL)	2.00 (50.80)	3.50 (88.90)	1/8
R154-02	—			3.75 (95.25)	1/4
R155-01	—	5.00 oz (147.90 mL)	2.50 (63.50)	4.12 (104.65)	1/8
R155-02	—			4.31 (109.47)	1/4
R107-01	—	8.00 oz (236.60 mL)	2.50 (63.50)	5.19 (131.83)	1/8
R107-02	—			5.38 (136.65)	1/4
R107-03	—			5.38 (136.65)	3/8
R108-01	—	9.00 oz (266.20 mL)	3.00 (76.20)	5.38 (136.65)	1/8
R108-02	—			5.50 (139.70)	1/4
R109-03	—	12.00 oz (354.90 mL)	3.00 (76.20)	6.44 (163.58)	3/8
R109-04	—			6.62 (168.15)	1/2
R110-03	—	1.00 pt (.47 L)	3.50 (88.90)	6.56 (166.62)	3/8
R110-04	R110-14			6.62 (168.15)	1/2
R111-03	—	1.00 qt (.95 L)	4.25 (107.95)	7.94 (201.68)	3/8
R111-04	—			8.06 (204.72)	1/2
R112-03	—	.50 gal (1.90 L)	5.50 (139.70)	9.94 (252.48)	3/8
R112-04	R112-14			10.12 (257.05)	1/2
R113-03	—	1.00 gal (3.80 L)	5.50 (139.70)	14.94 (379.48)	3/8
R113-04	R113-14			15.25 (387.35)	1/2

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# LUBRICATORS & DISPENSERS

## R100 SERIES

### GRAVITY FEED W/FILTER - NO FLOW CONTROL

The R100 Series of gravity feed reservoirs without flow control are ideal for use as make-up or replenishing reservoirs. They can be installed in most cases to serve both as an oil cup to maintain oil level and as an oil gage to provide 360° visual check of fluid level and condition. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir. Reservoirs can be disassembled for occasional cleaning.

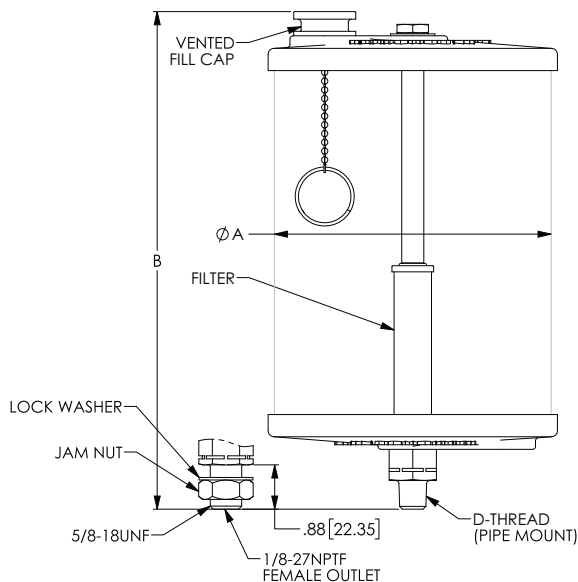
#### Standard Materials:

- Aluminum construction
- Buna N seals
- Break resistant colorless transparent polymer
- 100 Mesh Stainless Steel filter
- Some sizes have a brass shank

#### Temperature and Pressure Ratings:

- Polymer maximum working temperature up to 140°F (60°C)
- Ratings are at atmospheric pressure.

**NOTE:** Pipe or bracket mount styles available



**NOTE:** All dimensions are inches (mm)



R100 Series Gravity Feed w/Filter - No Flow Control				
Part No.	Capacity	A inches (mm)	B inches (mm)	D Thread
R110-02F	1.00 pt (.47 L)	3.50 (88.90)	6.38 (162.05)	1/4 NPTF
R110-03F			6.44 (163.58)	3/8 NPTF
R110-04F			6.62 (168.15)	1/2 NPTF
R110-08F			6.69 (169.93)	5/8-18 UNF •
R111-02F	1.00 qt (.95 L)	4.25 (107.95)	7.78 (197.61)	1/4 NPTF
R111-03F			7.84 (199.14)	3/8 NPTF
R111-04F			8.00 (203.20)	1/2 NPTF
R111-08F			8.06 (204.72)	5/8-18 UNF •
R112-02F	.50 gal (1.90 L)	5.50 (139.70)	9.91 (251.72)	1/4 NPTF ▼
R112-03F			9.97 (253.24)	3/8 NPTF
R112-04F			10.12 (257.05)	1/2 NPTF
R112-08F			10.19 (258.83)	5/8-18 UNF •
R113-02F	1.00 gal (3.80 L)	5.50 (139.70)	14.91 (378.72)	1/4 NPTF ▼
R113-03F			14.97 (380.24)	3/8 NPTF
R113-04F			15.12 (384.05)	1/2 NPTF
R113-08F			15.19 (385.83)	5/8-18 UNF •

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# LUBRICATORS & DISPENSERS

## R100 SERIES

### GRAVITY FEED W/FILTER & LOW LEVEL SWITCH

The R100 Series of gravity feed reservoirs without flow control are ideal for use as make-up or replenishing reservoirs. They can be installed in most cases to serve both as an oil cup to maintain oil level and as an oil gage to provide 360° visual check of fluid level and condition. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir. Reservoirs can be disassembled for occasional cleaning. The low level switch provides an electrical interface to activate a low reservoir level alarm or monitor used to determine when to refill the reservoir.

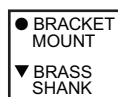
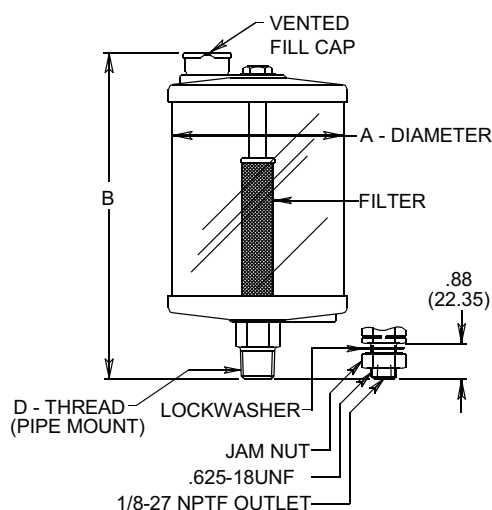
#### Standard Materials:

- Aluminum construction
- Buna N seals
- Break resistant colorless transparent polymer
- 100 mesh stainless steel filter
- 10 VA switch closes on descending level
- Some sizes have a brass shank
- DPDT, 10A, 120V, 60Hz relay for switch is available

#### Temperature and Pressure Ratings:

- Polymer maximum working temperature up to 140°F (60°C)
- Ratings are at atmospheric pressure.

**NOTE:** Pipe or bracket mount styles available



**NOTE:** All dimensions are inches [mm]

R100 Series Gravity w/Filter & Low Level Switch				
Part No.	Capacity	A inches (mm)	B inches (mm)	D Thread
R111-02FS	1.00 qt (.95 L)	4.25 (107.95)	7.78 (197.61)	1/4 NPTF
R111-03FS			7.84 (199.14)	3/8 NPTF
R111-04FS			8.00 (203.20)	1/2 NPTF
R111-08FS			8.06 (204.72)	5/8-18 UNF •
R112-02FS	.50 gal (1.90 L)	5.50 (139.70)	9.91 (251.72)	1/4 NPTF ▼
R112-03FS			9.97 (253.24)	3/8 NPTF
R112-04FS			10.12 (257.05)	1/2 NPTF
R112-08FS			10.19 (258.83)	5/8-18 UNF •
R113-02FS	1.00 gal (3.80 L)	5.50 (139.70)	14.91 (378.72)	1/4 NPTF ▼
R113-03FS			14.97 (380.24)	3/8 NPTF
R113-04FS			15.12 (384.05)	1/2 NPTF
R113-08FS			15.19 (385.83)	5/8-18 UNF •

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# LUBRICATORS & DISPENSERS

## RCL SERIES

The RCL Series of constant level reservoirs feature a large sight window for viewing liquid level and fluid condition. Furnished with "Oil Level" and line for positive level viewing. Reservoirs can be mounted on the side or bottom. They can be vented to atmosphere or back vented to housing.

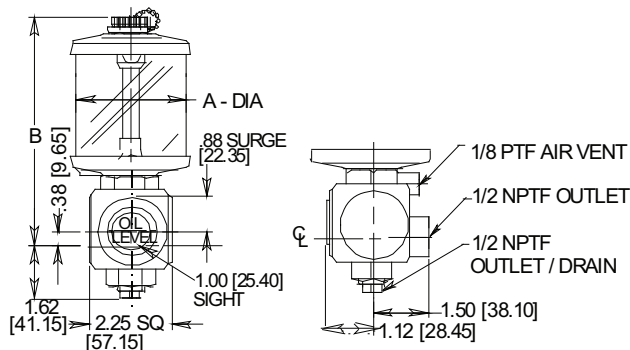
### Standard Materials:

- Aluminum construction
- Buna N seals
- Break resistant, colorless transparent polymer
- Borosilicate glass for fluid compatibility and thermal shock
- Pilot duty switch closes (activates) on descending level (conduit included)

### Temperature and Pressure Ratings:

- Polymer up to 140° F (60°C)
- Glass up to 180°F (82°C)
- Ratings are at atmospheric pressure
- For applications requiring maximum working temperatures of 180°F (82°C) and above, please consult factory

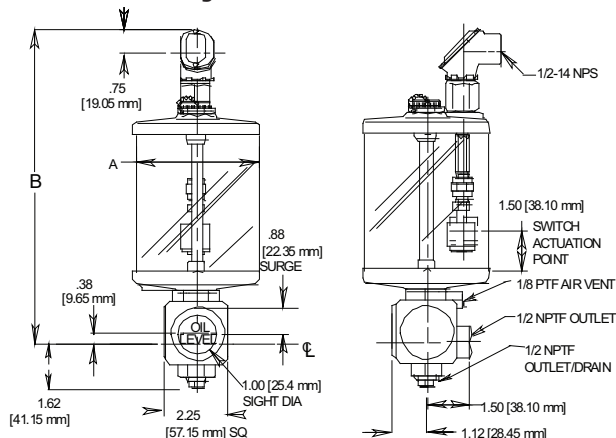
**Fig. 1 - Top Fill with Sight Window**



**NOTE:** All dimensions are inches [mm]



**Fig. 2 - Low Level Switch**



**NOTE:** Low level switch reservoirs available in large capacity units 1 quart (.95 liter), 1/2 gallon (1.89 liter), and 1 gallon (3.79 liter) sizes.

### RCL Series

Fig	Part Number		Capacity	A	B
	Polymer	Glass		inches (mm)	inches (mm)
1	—	RCL311	2.50 oz (73.90 mL)	2.00 (50.80)	4.88 (123.95)
	RCL302	—	5 oz (147.90 mL)	2.50 (63.50)	5.38 (136.65)
	RCL303	RCL313	9 oz (266.20 mL)	3.00 (76.20)	6.19 (157.23)
	—	—	1 pt (.47 L)	3.50 (88.90)	7.19 (182.63)
	—	RCL315	1 qt (.95 L)	4.25 (107.95)	8.44 (214.38)
2	RCL305LS	—	1 qt (.95 L)	4.25 (107.95)	10.94 (277.88)
	RCL306LS	—	.50 gal (1.90 L)	5.50 (139.70)	13.00 (330.20)
	—	—	1.00 gal (3.80 L)	5.50 (139.70)	18.00 (457.20)

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# LUBRICATORS & DISPENSERS

## RDF SERIES PIPE THREAD NPTF

The RDF Series of drop feed reservoirs feature a vented sight chamber, adjustable metering and toggle shut-off. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir. Reservoirs can be disassembled for occasional cleaning.

### Standard Materials:

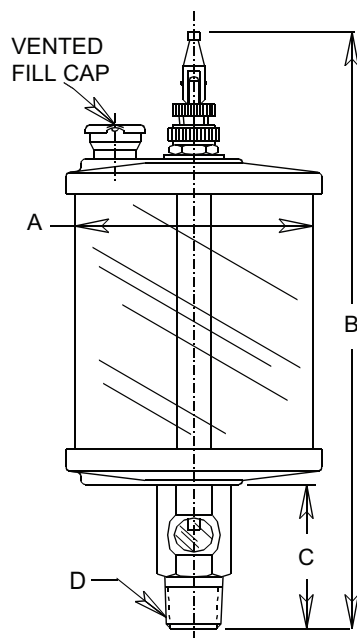
- Aluminum construction
- Buna N seals
- Gage glass sight
- Break resistant, colorless transparent polymer
- Borosilicate glass for fluid compatibility and thermal shock

### Operating Conditions

- Polymer up to 140°F (60°C)
- Glass up to 250°F (121°C)
- Ratings are at atmospheric pressure
- Maximum viscosity 1500 SSU

### NOTE:

- Please refer to Appendix LE-3 on page LE-A3 for Toggle Valve Adjustment Instructions



RDF Series Pipe Thread NPTF						
Part No.		Capacity	A inches (mm)	B inches (mm)	C inches (mm)	D Thread NPTF
Polymer	Glass					
RDF101-01	RDF101-11	.62 oz. (18.50 mL)	1.50 (38.10)	4.56 (115.82)	1.38 (35.05)	1/8
RDF102-01	—	1.00 oz. (29.60 mL)	1.50 (38.10)	5.00 (127.00)	1.38 (35.05)	1/8
RDF102-02	RDF102-12			5.19 (131.83)	1.56 (39.62)	1/4
RDF103-02	RDF103-12	1.50 oz. (44.40 mL)	1.75 (44.45)	5.38 (136.65)	1.56 (39.62)	1/4
RDF104-01	—	2.50 oz. (73.90 mL)	2.00 (50.80)	5.56 (141.22)	1.38 (35.05)	1/8
RDF104-03	RDF104-13			5.75 (146.05)	1.56 (39.62)	3/8
RDF105-02	—	5.00 oz. (147.90 mL)	2.50 (63.50)	6.38 (162.05)	1.56 (39.62)	1/4
RDF105-03	RDF105-13					3/8
RDF106-01	—	8.00 oz. (236.60 mL)	2.50 (63.50)	7.31 (185.67)	1.38 (35.05)	1/8
RDF107-03	RDF107-13	9.00 oz. (266.20 mL)	3.00 (76.20)	7.62 (193.55)	1.94 (49.28)	3/8
RDF107-04	RDF107-14			7.81 (198.37)	2.12 (53.85)	1/2
RDF108-02	—	12.00 oz. (354.90 mL)	3.00 (76.20)	8.94 (227.08)	1.94 (49.28)	1/4
RDF108-03	—			8.94 (227.08)	1.94 (49.28)	3/8
RDF108-04	—			9.12 (231.65)	2.12 (53.85)	1/2
RDF109-02	—			8.94 (227.08)	1.94 (49.28)	1/4
RDF109-03	RDF109-13	1.00 pt. (.47 L)	3.50 (88.90)	8.94 (227.08)	1.94 (49.28)	3/8
RDF109-04	RDF109-14			9.12 (231.65)	2.12 (53.85)	1/2
RDF110-03	—	1.00 qt. (.95 L)	4.25 (107.95)	9.94 (252.48)	1.94 (49.28)	3/8
RDF110-04	RDF110-14			10.12 (257.05)	2.12 (53.85)	1/2
RDF111-04	RDF111-14	.50 gal. (1.90 L)	5.50 (139.70)	12.06 (306.32)	2.12 (53.85)	1/2
RDF112-04	—	1.00 gal. (3.80 L)	5.50 (139.70)	17.06 (433.32)	2.12 (53.85)	1/2

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# LUBRICATORS & DISPENSERS

## RDF SERIES STRAIGHT THREAD/REMOTE MOUNT

The RDF Series of drop feed reservoirs feature a vented sight chamber, adjustable metering and toggle shut-off. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir. Reservoirs can be disassembled for occasional cleaning.

### Standard Materials:

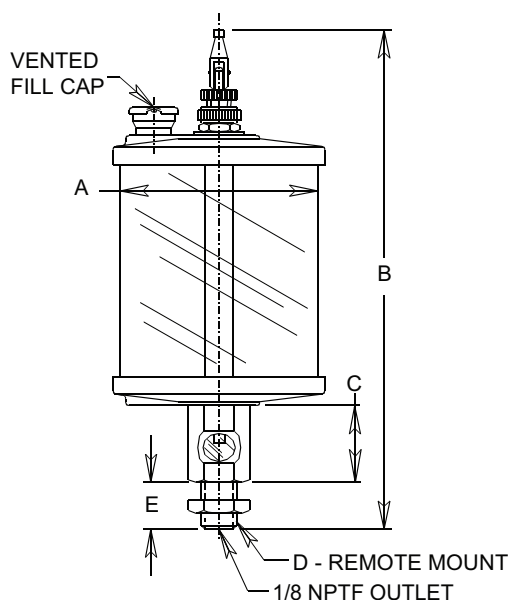
- Aluminum construction
- Buna N seals
- Gage glass sight
- Break resistant, colorless transparent polymer

### Operating Conditions:

- Polymer up to 140°F (60°C)
- Ratings are at atmospheric pressure
- Maximum viscosity 1500 SSU

### NOTE:

- Please refer to Appendix LE-3 on page LE-A3 for Toggle Valve Adjustment Instructions



RDF Series Straight Thread/Remote Mount						
Part No.	Capacity	A inches (mm)	B inches (mm)	C inches (mm)	D Thread UNF	E inches (mm)
RDF102-06	1.00 oz (29.60 mL)	1.50 (38.10)	5.30 (134.62)	1.00 (25.40)	9/16-18	.62 (15.75)
RDF103-06	1.50 oz (44.40 mL)	1.75 (44.45)	5.45 (138.43)	1.00 (25.40)	9/16-18	.62 (15.75)
RDF104-06	2.50 oz (73.90 mL)	2.00 (50.80)	5.74 (145.80)	1.00 (25.40)	9/16-18	.62 (15.75)
RDF105-06	5.00 oz (147.90 mL)	2.50 (63.50)	6.37 (161.80)	1.00 (25.40)	9/16-18	.62 (15.75)
RDF107-08	9.00 oz (266.20 mL)	3.00 (76.20)	7.00 (177.80)	1.38 (35.05)	5/8-18	.88 (22.35)
RDF108-08	12.00 oz (354.90 mL)	3.00 (76.20)	8.38 (212.85)	1.38 (35.05)	5/8-18	.88 (22.35)
RDF109-08	1.00 pt (.47 L)	3.50 (88.90)	8.94 (227.08)	1.38 (35.05)	5/8-18	.88 (22.35)
RDF110-08	1.00 qt (.95 L)	4.25 (107.95)	9.38 (238.25)	1.38 (35.05)	5/8-18	.88 (22.35)
RDF111-08	.50 gal (1.90 L)	5.50 (139.70)	12.19 (309.63)	1.38 (35.05)	5/8-18	.88 (22.35)
RDF112-08	1.00 gal (3.80 L)	5.50 (139.70)	16.31 (414.27)	1.38 (35.05)	5/8-18	.88 (22.35)

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# LUBRICATORS & DISPENSERS

## RDM SERIES

The RDM Series of multiple feed, large capacity reservoirs with central mounting shank provide for controlled lubrication for up to 30 points from one location. Manually operated toggle lever at the top of reservoir controls on/off full flow of oil to valves. Valve drip feed rate is individually set at each valve. Large reservoir provides 360° viewing at a glance. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir. Exclusive patented compact manifold design allows for easy removal of any of the valves. Units with odd number of feeds will be furnished with greater number of feeds to the right side unless otherwise specified.

### Standard Materials:

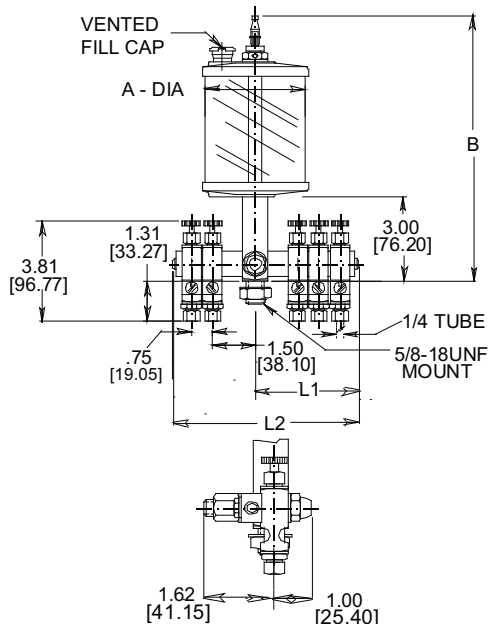
- Aluminum construction
- Buna N seals
- Break resistant, colorless transparent polymer

### Temperature and Pressure Ratings:

- Maximum working temperature up to 140°F (60°C)
- Rating is at atmospheric pressure

### NOTE:

- Please refer to Appendix LE-3 on page LE-A3 for Toggle Valve Adjustment Instructions
- For outdoor or damp applications, please specify Anodized.
- For replacement feeds, please order part number 352890



NOTE: All dimensions are inches [mm]

### ORDERING OPTIONS:

Order Suffix	Feeds
-02	Specify 02 through 30 feeds.
-30	(2 feeds are standard)

### HOW TO ORDER

#### EXAMPLE:

**RDM103-02** — 2 feeds (standard)  
Series RDM103 - 1 pint (.47 liter)  
capacity reservoir



RDM Series			
Part No.	Capacity	A inches (mm)	B inches (mm)
<b>RDM101</b>	9.00 oz (266.20 mL)	3.00 (76.20)	8.50 (215.90)
<b>RDM102</b>	12.00 oz (354.90 mL)	3.00 (76.20)	9.50 (241.30)
<b>RDM103</b>	1.00 pt (.47 L)	3.50 (88.90)	9.50 (241.30)
<b>RDM104</b>	1.00 qt (.95 L)	4.25 (107.95)	10.69 (271.53)
<b>RDM105</b>	.50 gal (1.90 L)	5.50 (139.70)	12.75 (323.85)
<b>RDM106</b>	1.00 gal (3.80 L)	5.50 (139.70)	17.75 (450.85)

Feeds	-02 inches (mm)	-03 inches (mm)	-04 inches (mm)	-05 inches (mm)	-06 inches (mm)	-10 inches (mm)	-20 inches (mm)	-30 inches (mm)
<b>L1</b>	2.19 (55.62)	2.94 (74.68)	2.94 (74.68)	3.69 (93.73)	3.69 (93.73)	5.19 (131.83)	8.94 (227.08)	12.69 (322.33)
<b>L2</b>	4.38 (111.25)	5.12 (130.05)	5.88 (149.35)	6.62 (168.15)	7.38 (187.45)	10.38 (263.65)	17.88 (454.15)	25.38 (644.65)

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# LUBRICATORS & DISPENSERS

## REF SERIES

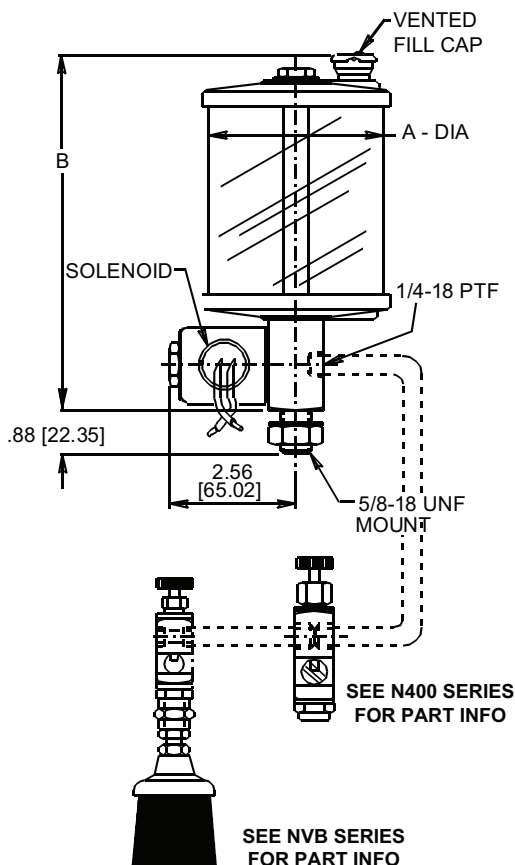
The REF Series of large capacity, full flow reservoirs are mounted at an accessible central location to automatically control fluid flow. Designed for gravity flow, can be connected in a series to any number of metering valves or valve brushes to provide an inexpensive, automatic lubrication system. Large reservoir clearly provides 360° visual check of fluid level and condition. Normally closed solenoid is usually wired across machine starting switch to provide automatic off / on full flow fluid control. Compact center solenoid valve and mounting shank combination provides good weight distribution and facilitates mounting. Other commercial voltages available - Please specify. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir.

### Standard Materials:

- Aluminum construction
- Buna N seals
- Break resistant, colorless transparent polymer
- Class "B" molded water resistant coil

### Standard Features:

- 5/8 inch UNF stud end
- 1/4 PTF female connection
- Voltages available:
  - 24V, DC
  - 120V/60Hz 1Ph
  - 240V/60Hz 1Ph
  - 480V/60Hz 1Ph



**NOTE:** All dimensions are inches [mm]



REF Series			
Part No.	Capacity	A inches (mm)	B inches (mm)
REF151	9 oz (266.20 mL)	3.00 (76.20)	6.00 (152.40)
REF152	12 oz (354.90 mL)	3.00 (76.20)	7.00 (177.80)
REF153	1 pt (.47 L)	3.50 (88.90)	7.00 (177.80)
REF154	1 qt (.95 L)	4.25 (107.95)	8.44 (214.38)
REF155	.50 gal (1.90 L)	5.50 (139.70)	10.44 (265.18)
REF156	1.00 gal. (3.80 L)	5.50 (139.70)	15.44 (392.18)

### ORDERING OPTIONS:

Order Suffix	Solenoid Voltage/Hertz:
-26	120V/60Hz, 1Ph
-27	240V/60Hz, 1Ph
-28	480V/60Hz, 1Ph
-43	24V DC

### HOW TO ORDER

#### EXAMPLE:

**REF153-26** — 120V/60Hz, 1 Ph Solenoid voltage  
Series REF153 - 1 pint (.473 liter)  
capacity reservoir



# LUBRICATORS & DISPENSERS

## REM SERIES

The REM Series of multiple feed, large capacity electro reservoirs with central mounting shank provide for controlled lubrication for 2 to 30 points from one location. Solenoid valve automatically controls full flow of oil from reservoir to valves. Drip feed rate is determined by your adjustment of each needle valve. Large reservoir provides 360° viewing at a glance. Units with odd number of feeds will be furnished with greater number of feeds to the right side unless otherwise specified. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir.

### Standard Materials:

- Aluminum construction
- Buna N seals
- Class 'B' molded water resistant coil
- Break resistant, colorless transparent polymer

### Standard Features:

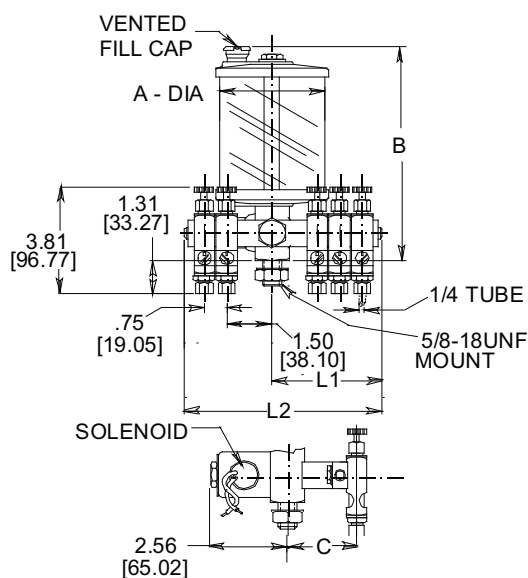
- Up to 30 feeds can be specified
- Voltages available:
  - 24V, DC
  - 120V/60Hz 1Ph
  - 240V/60Hz 1Ph
  - 480V/60Hz 1Ph

### Temperature and Pressure Ratings:

- Maximum working temperature up to 140°F (60°C)
- Rating is at atmospheric pressure

### NOTE:

- For outdoor or damp applications, please specify Anodized.
- For replacement feeds, please order part number 352890



NOTE: All dimensions are inches [mm]

### REM Series

Part No.	Capacity	A inches (mm)	B inches (mm)	C inches (mm)
REM151	9 oz (266.20 mL)	3.00 (76.20)	6.00 (152.40)	2.00 (50.80)
REM152	12 oz (354.90 mL)	3.00 (76.20)	7.00 (177.80)	2.00 (50.80)
REM153	1 pt (.47 L)	3.50 (88.90)	7.00 (177.80)	2.25 (57.15)
REM154	1 qt (.95 L)	4.25 (107.95)	8.44 (214.38)	2.62 (66.55)
REM155	.50 gal (1.90 L)	5.50 (139.70)	10.44 (265.18)	3.25 (82.55)
REM156	1.00 gal (3.80 L)	5.50 (139.70)	15.44 (392.18)	3.25 (82.55)
REM157	2.00 gal (7.60 L)	5.50 (139.70)	28.44 (722.38)	3.25 (82.55)

### ORDERING OPTIONS:

Order Suffix	Feeds
-02 -30	Specify 02 through 30 feeds. (2 feeds are standard)

Order Suffix	Solenoid Voltage/Hertz:
-26	120V/60Hz, 1Ph
-27	240V/60Hz, 1Ph
-28	480V/60Hz, 1Ph
-43	24V DC

### HOW TO ORDER

#### EXAMPLE:

REM153-02-26

120V/60Hz, 1 Ph  
2 feeds (standard)  
Series REM153 - 1 pint (.473 liter)  
capacity reservoir

Feeds	-02 inches (mm)	-03 inches (mm)	-04 inches (mm)	-05 inches (mm)	-06 inches (mm)	-10 inches (mm)	-20 inches (mm)	-30 inches (mm)
L1	2.19 (55.62)	2.94 (74.68)	2.94 (74.68)	3.69 (93.73)	3.69 (93.73)	5.19 (131.83)	8.94 (227.08)	12.69 (322.33)
L2	4.38 (111.25)	5.00 (127.00)	5.88 (149.35)	6.62 (168.15)	7.38 (187.45)	10.38 (263.65)	17.88 (454.15)	25.38 (644.65)

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# LUBRICATORS & DISPENSERS

## REO SERIES

The REO Series of sturdily constructed automatic solenoid controlled lubricators provides for precise control of lubricant through a needle valve. The normally closed solenoid is usually wired across machine starting switch to provide automatic off / on full flow fluid control. Feeding stops when machine is turned off. Compact center solenoid valve and mounting shank combination provides good weight distribution and facilitates mounting. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir.

### Standard Materials:

- Aluminum construction
- Buna N seals
- Break resistant, colorless transparent polymer
- Class "B" molded water resistant oil

### Standard Features:

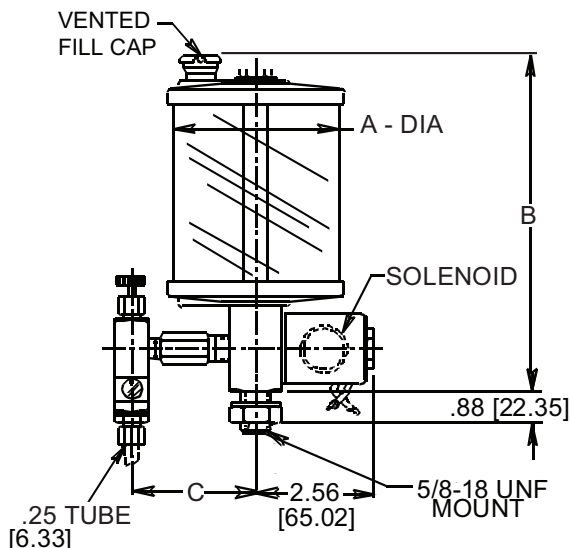
- Voltages available:
  - 24V, DC
  - 120V/60Hz 1Ph
  - 240V/60Hz 1Ph
  - 480V/60Hz 1Ph

### Temperature and Pressure Ratings:

- Maximum working temperature up to 140°F (60°C)
- Rating is at atmospheric pressure

### NOTE:

- For outdoor or damp applications, please specify Anodized.
- For replacement needle valve - please order part number N403-04



NOTE: All dimensions are inches [mm]



REO Series				
Part No.	Capacity	A inches (mm)	B inches (mm)	C inches (mm)
REO151	2.50 oz (73.90 mL)	2.00 (50.80)	4.69 (119.13)	1.58 (40.13)
REO152	5.00 oz (147.90 mL)	2.50 (63.50)	5.19 (131.83)	2.06 (52.32)
REO153	9.00 oz (266.20 mL)	3.00 (76.20)	6.00 (152.40)	2.38 (60.45)
REO154	12.00 oz (354.90 mL)	3.00 (76.20)	7.00 (177.80)	2.38 (60.45)
REO155	1.00 pt (.47 L)	3.50 (88.90)	7.00 (177.80)	2.69 (68.33)
REO156	1.00 qt (.95 L)	4.25 (107.95)	8.44 (214.38)	2.75 (69.85)
REO157	.50 gal (1.90 L)	5.50 (139.70)	10.44 (265.18)	3.53 (89.66)
REO158	1.00 gal (3.80 L)	5.50 (139.70)	15.44 (392.18)	3.81 (96.77)
REO159	2.00 gal (7.60 L)	5.50 (139.70)	28.44 (722.38)	3.50 (88.90)

### ORDERING OPTIONS:

Order Suffix	Solenoid Voltage/Hertz:
-26	120V/60Hz, 1Ph (standard)
-27	240V/60Hz, 1Ph (standard)
-28	480V/60Hz, 1Ph
-43	24V DC

### HOW TO ORDER

#### EXAMPLE:

REO155-26 — 120V/60Hz, 1 Ph Solenoid voltage  
Series REO155 - 1 pint (.47 liter)  
capacity reservoir

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# LUBRICATORS & DISPENSERS

## RFF100 SERIES

The RFF100 Series of full flow dispensers is designed to serve as a central reservoir for lubricating systems. Reservoirs are gravity feed and provide a full flow of oil which can be manually shut off by flipping the toggle at the top of the reservoir to a horizontal position. Electric Solenoid shut off is available. Reservoirs provide a 360° visual check of fluid level and condition. Fill cap with side vent minimizes the possibility of dust and dirt entering the reservoir. Reservoirs can be disassembled for occasional cleaning.

### Standard Materials:

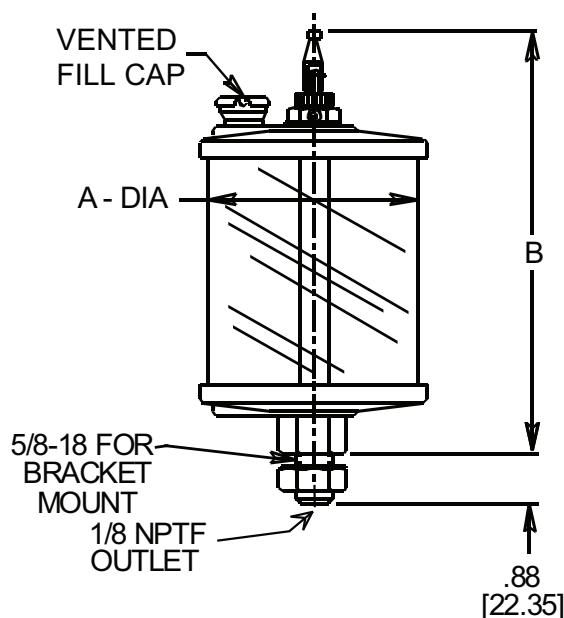
- Aluminum construction
- Buna N seals
- Break resistant, colorless transparent polymer

### Temperature and Pressure Ratings:

- Maximum working temperature up to 140°F (60°C)
- Rating is at atmospheric pressure

### NOTE:

- Please refer to Appendix LE-3 on page LE-A3 for Toggle Valve Adjustment Instructions



**NOTE:** All dimensions are inches [mm]

RFF100 Series			
Part No.	Capacity	A inches (mm)	B inches (mm)
RFF101	9.00 oz (266.20 mL)	3.00 (76.20)	6.00 (152.40)
RFF102	12.00 oz (354.90 mL)	3.00 (76.20)	7.00 (177.80)
RFF103	1.00 pt (.47 L)	3.50 (88.90)	7.00 (177.80)
RFF104	1.00 qt (.95 L)	4.25 (107.95)	8.25 (209.55)
RFF105	.50 gal (1.90 L)	5.50 (139.70)	10.25 (260.35)
RFF106	1.00 gal (3.80 L)	5.50 (139.70)	15.25 (387.35)

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# LUBRICATORS & DISPENSERS

## RVP SERIES

The RVP Series of air operated reservoirs can be used for applying lubricants to chains or rollers or for spraying large sheets using the SV100 series spray valves. By varying the air pressure on fluid and to the spray valve, the valve spray pattern can be accurately adjusted to prevent overspray and drip. The use of solenoid valves on the outlet sides provides a positive shut-off of air and liquid.

### Standard Materials:

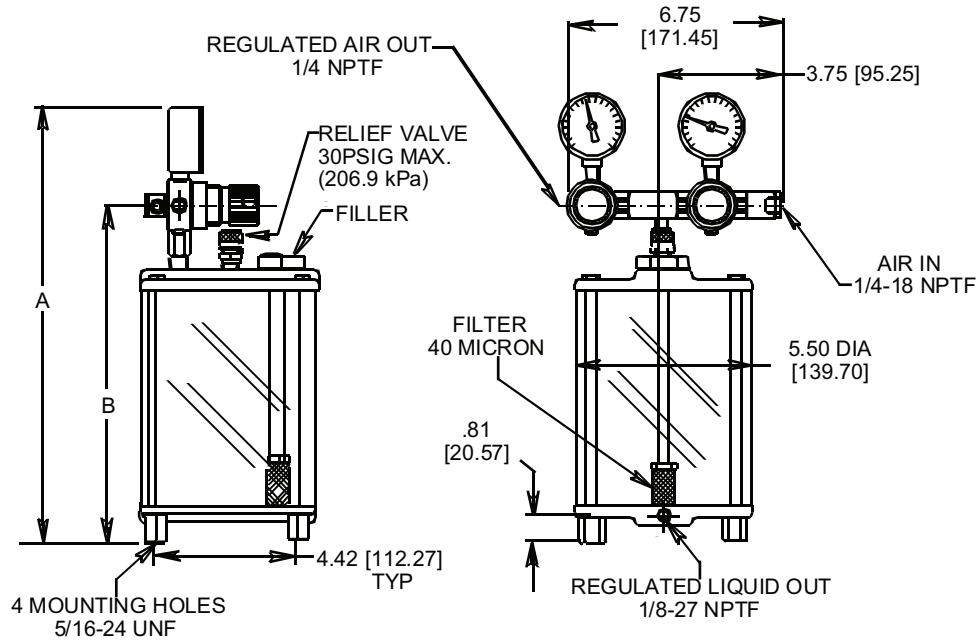
- Aluminum construction
- Buna N seals
- Break resistant, colorless, transparent polymer

### Standard Feature:

- 40 micron filter

### Pressure Ratings:

- Inlet unregulated air pressure to 125 psig (862 kPa) max
- Regulated air and fluid pressure to 30 psig (207 kPa) max



**NOTE:** All dimensions are inches [mm]



RVP Series			
Part No.	Capacity	A inches (mm)	B inches (mm)
RVP101	1 qt (.95 L)	10.75 (273.05)	7.25 (184.15)
RVP102	.50 gal (1.90 L)	14.25 (361.95)	10.75 (273.05)
RVP103	1.00 gal (3.80 L)	19.25 (488.95)	15.75 (400.05)
RVP104	2.00 gal (7.60 L)	32.25 (819.15)	28.75 (730.25)

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Pg LE-40

# METERING & SHUT OFF VALVES

## ESS SERIES

The exclusive "LUBE-O-MATIC" features an integral solenoid/sight feed package which offers automatic fluid flow. The coil wires (normally closed valve) connect across the drive line or start switch allowing the unit to feed only when the machine is running. The knurled adjustment wheel provides positive, smooth feed rate adjustment from full-flow to shut-off. A large vented sight window is provided for easy viewing of the feed rate.

### Standard Features:

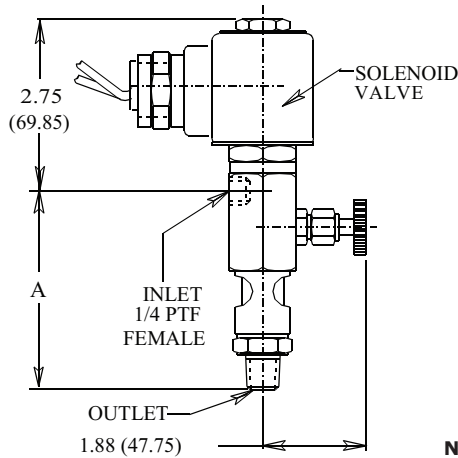
- Available in either angle or straight pattern
- .09 inch (2.39 mm) minimum orifice

### Standard Materials:

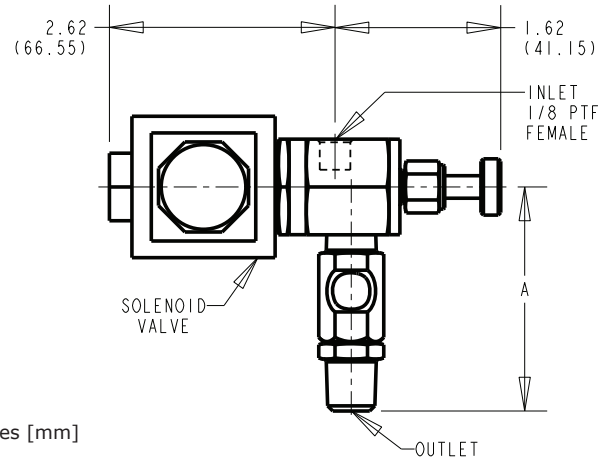
- Class 'B' molded water resistant coil
- Needle valve is brass construction

### Operating Conditions:

- 11.5 watts power consumption for all units
- Gravity flow



**NOTE:** All dimensions are inches [mm]



### ESS Series - Angle Pattern

Part No.	Outlet	A inches (mm)
ESS101	1/4 Tube	3.19 (81.03)
ESS102	1/4 Male NPTF	3.19 (81.03)
ESS103	1/8 Male NPTF	3.00 (76.20)



### ESS Series - Straight Pattern

Part No.	Outlet	A inches (mm)
ESS151	1/8 Male NPTF	2.50 (63.50)
ESS152	1/4 Male NPTF	2.56 (65.02)
ESS155	1/4 Tube	2.62 (66.55)

### ORDERING OPTIONS:

Order Suffix	Solenoid Voltage/Hertz:
-26	120V/60Hz, 1Ph
-27	240V/60Hz, 1Ph
-28	480V/60Hz, 1Ph
-42	12V, DC
-43	24V, DC

### HOW TO ORDER

#### EXAMPLE:

**ESS102-26** — 120V/60Hz, 1 Ph Solenoid voltage  
Series ESS102- (angle pattern)

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# METERING & SHUT OFF VALVES

## ESV SERIES

The ESV Series straight pattern solenoid valve features a compact, rugged design. This normally closed two-way valve has female pipe thread (Dryseal) inlet and outlet which are in a straight line through the body. When the solenoid is energized, the plunger lifts, opening the valve. When the circuit is broken, the spring loaded plunger returns, closing the orifice.

### Standard Features:

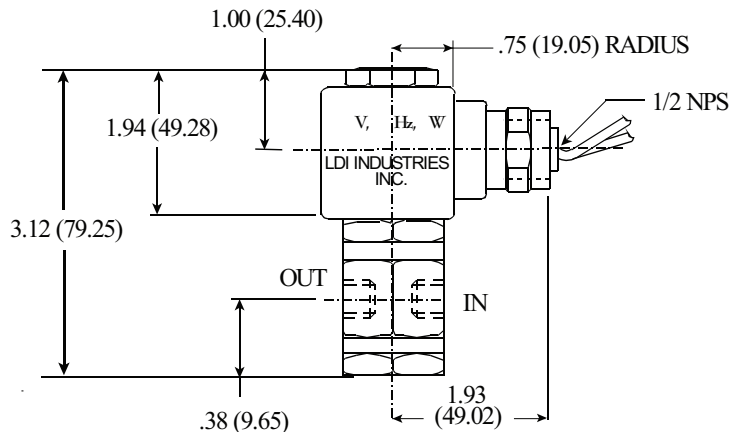
- 1/8 inch PTF female connection
- Straight pattern
- .09 (2.39mm) minimum orifice
- Voltages available:
  - 12V, DC
  - 24V, DC
  - 120V/60Hz, 1Ph
  - 240V/60Hz, 1Ph
  - 480V/60Hz, 1Ph

### Standard Materials:

- Class 'B' molded water resistant coil
- Solenoid valve body is brass construction
- Plunger, tube and case assembly are Stainless Steel construction
- Plunger valve discs are molded and ground synthetic

### Pressure Ratings:

- 11.50 watts power consumption for all units
- Maximum inlet pressure 65 PSI (448 kPa)
- Maximum back pressure 10 PSI (69 kPa)



**NOTE:** All dimensions are inches (mm)

ESV Series				
Part No.	PTF	Orifice Diameter inches (mm)	Maximum Inlet Pressure PSI (kPa)	Maximum Back Pressure PSI (kPa)
ESV501	1/8 x 1/8	.20 (5.16)	65 (448)	10 (69)

ORDERING OPTIONS:	
Order Suffix	Solenoid Voltage/Hertz:
-26	120V/60Hz, 1Ph
-27	240V/60Hz, 1Ph
-28	480V/60Hz, 1Ph
-42	12V DC
-43	24V DC

### HOW TO ORDER

#### EXAMPLE:

**ESV501-26** — 120V/60Hz, 1 Ph Solenoid voltage Series ESV501- (straight pattern)

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# METERING & SHUT OFF VALVES

## FFG SERIES - HEAVY DUTY

The FFG Series is ideal for applications which require fine metering and shut-off. Designed for use with air, oil, water, steam, liquid fuels and most chemicals.

### Standard Features:

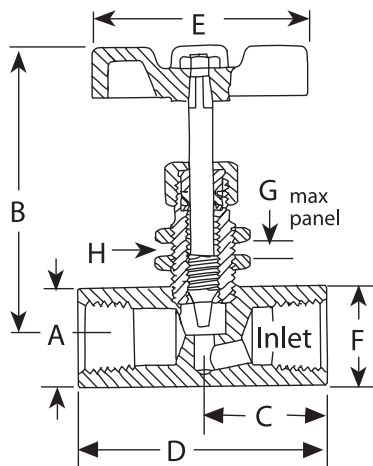
- Heavy duty brazed construction for added strength and safety
- Precision machined stems and valve bodies provide perfect seat alignment for leak-free shut off
- Carbon steel valves are zinc plated and sealed with black chromate for double corrosion protection
- Stem Taper
  - 10.5° (1/4 inch size)
- Stem Pitch
  - 16 threads/inch (1/4 inch size)

### Standard Material:

- Carbon steel

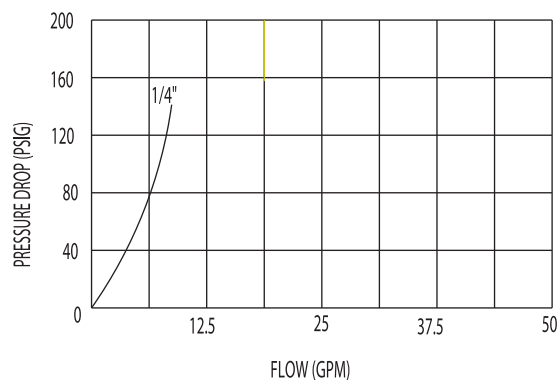
### Temperature and Pressure Ratings:

- Maximum operating pressure 10,000 PSI (68948 kPa) Hydraulic Oil
- Maximum operating pressure 2000 PSI (13790 kPa) Air
- Temperature range -40° F to 500° F (-40° C to 260° C)



FFG Series											
Part No.	Body Material	A Female NPT	B Max (inches)	C (inches)	D (inches)	E (inches)	F (inches)	G (inches)	H Dia (inches)	Orifice Dia. (inches)	CV
<b>FFG2002T</b>	Carbon Steel	1/4	3.50	1.03	2.06	2.50	.88	.38	.62	.22	.66

### Performance



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# METERING & SHUT OFF VALVES

## MINI LINE SERIES

The Mini Line Series is ideal for test bench and control panel applications. Designed for use with air, oil, water, steam, vacuum service and most chemicals.

### Standard Features:

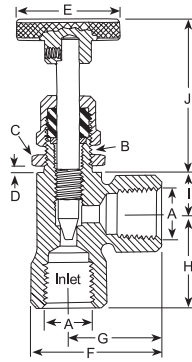
- Compact design provides easy installation
- Fine stem threading and long taper allow precise metering and leak-free shut off
- Internal stop prevents the stem from being accidentally unscrewed from the body
- Valves come equipped for panel mounting
- .182 inch orifice diameter
- 15° stem taper
- 32 threads/inch stem pitch

### Standard Materials:

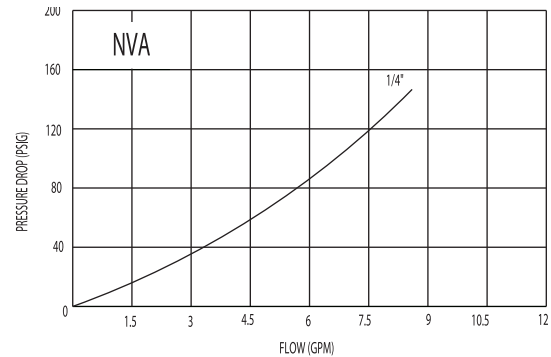
- Body, stem, knob, bonnet nut, panel mount nut - Brass
- Set screw - Steel
- Stem packing - Teflon with brass gland

### Temperature and Pressure Ratings:

- Maximum operating pressure 5000 PSI (34474 kPa) Hydraulic oil
- Maximum operating pressure 2000 PSI (13790 kPa) Air
- Temperature range -40°F to 500°F (-40°C to 260°C)

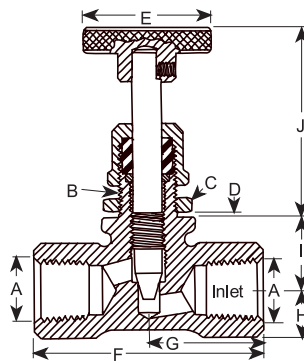


### Performance

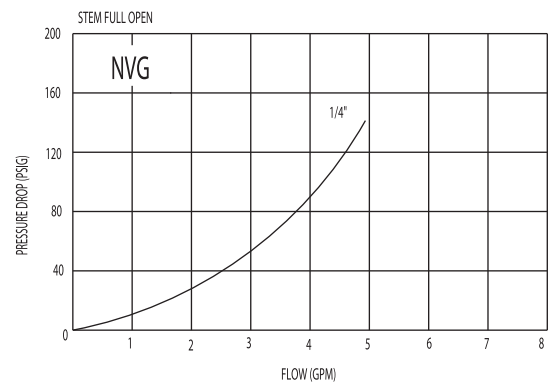


### NVA (dimensions in inches)

Part No.	A NPT	B Thread Size UNS-2B	C Hex Size	D Max	E	F	G	H	I	J Open	J Closed	CV
<b>NVA250B</b>	1/4	1/2-27	.69	.22	1.25	1.41	1.00	1.00	.44	2.16	1.59	.70



### Performance



### NVG (dimensions in inches)

Part No.	A NPT	B Thread Size UNS-2B	C Hex Size	D Max	E	F	G	H	I	J Open	J Closed	CV
<b>NVG250B</b>	1/4	1/2-27	.69	.22	1.25	1.34	1.00	1.00	.44	2.16	1.59	.70

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# METERING & SHUT OFF VALVES

## N100 SERIES

The N100 Series straight pattern needle valves with sight are ideally suited for vertical inline installation requiring controlled visible fluid metering. Knurled wheel provides for smooth, accurate adjustments of flow rate. Drip feed rate is adjustable from full orifice flow to complete shut-off. Flow is readily visible through large sight window. Pressure units supplied with non-vented sights. Gravity feed valves are furnished with a vented sight chamber, provided by a split in the gasket above the sight glass.

### Standard Features:

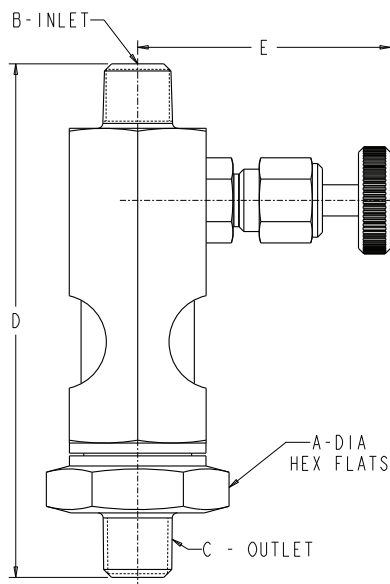
- 1/8, 1/4, 3/8 or 1/2 inch NPTF connections
- Available in either male or female connections

### Standard Materials:

- Precision machined from brass bar stock.
- Buna N seals.
- Gage glass sight.
- Pipe threads are dryseal

### Pressure Rating:

- Maximum operating pressure 125 PSI (862 kPa) to orifice



N100 Series						
Part No.		A Hex Dia. inches (mm)	Orifice inches (mm)	B Inlet	C Outlet	D inches (mm)
Gravity	Pressure					E inches (mm)
N102-01	—	.81 (20.57)	.09 (2.39)	1/8 M	1/8 M	3.03 (76.96)
N102-02	N102-12			1/4 M	1/4 M	3.41 (86.61)
N102-03	—			1/8 F	1/8 F	2.72 (69.09)
N102-04	N102-14			1/4 F	1/4 F	2.97 (75.44)
N102-06	—			1/4 M	1/4 T	3.44 (87.38)
N103-01	—			3/8 M	3/8 M	3.56 (90.42)
N103-02	—	.94 (23.88)	.11 (2.77)	3/8 F	3/8 F	3.25 (82.55)
N104-01	—	1.06 (26.92)	.15 (3.86)	1/2 M	1/2 M	3.94 (100.08)
N104-02	N104-12			1/2 F	1/2 F	4.62 (117.35)

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# METERING & SHUT OFF VALVES

## N400 SERIES

The N400 Series Needle Valves allow the flow to be accurately controlled from full orifice opening to shut off. Fluid flow is readily visible through a large sight window. Cross pattern can be used singularly or installed in series. Pressure units supplied with non-vented sights. Gravity feed valves are furnished with a vented sight chamber, provided by a split in the gasket above the sight glass.

### Standard Features:

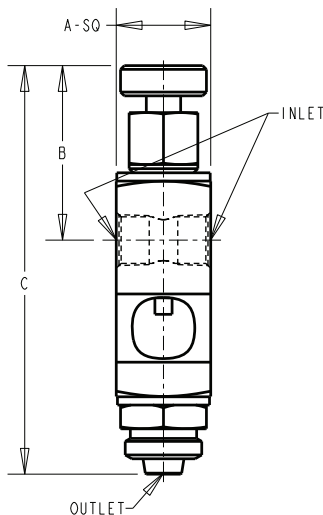
- 1/8 inch PTF female or 1/8 inch NPTF male connection for inlet and outlets
- 1/4 inch tubing outlet also available
- Vacuum application is available (requires modification)

### Standard Materials:

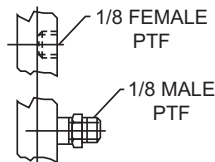
- Precision machined from aluminum bar stock
- Pipe threads are dryseal

### Pressure Rating:

- Maximum working pressure up to 125 PSI (862 kPa) to orifice



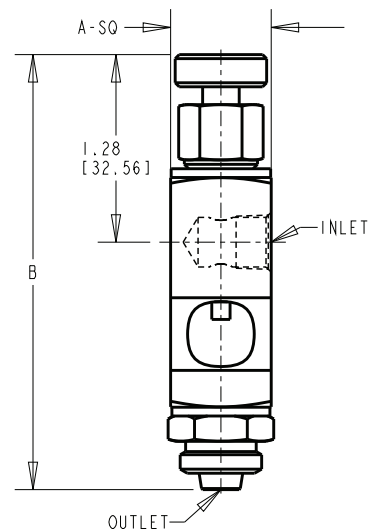
INLET



N400 Series - Cross Pattern							
Part No.		A Hex Dia inches (mm)	Orifice inches (mm)	Inlet	Outlet	B inches (mm)	C inches (mm)
Gravity	Pressure						
N401-01	N401-11	.69 (17.53)	.09 (2.39)	1/8 F	1/8 F	1.38 (35.05)	2.94 (74.68)
N401-04	—				1/4 T		3.38 (85.85)



N400 Series - Angle Pattern						
Part No.		A Hex Dia inches (mm)	Orifice inches (mm)	Inlet	Outlet	B inches (mm)
Gravity	Pressure					
N403-01	—				1/8 F	2.94 (74.68)
N403-02	—			1/8 F	1/8 M	3.12 (79.25)
N403-04		.69 (17.53)	.09 (2.39)		1/4 T	3.38 (85.85)
N404-01	N404-11			1/8 M	1/8 F	2.94 (74.68)



NOTE: All dimensions are inches (mm)

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# METERING & SHUT OFF VALVES

## N470 SERIES

The N470 Series toggle type valves are designed for controlled flow applications that require shutting off at times. This style of valve can be shut off and turned on again without affecting the previous preset drip rate. Fine adjustments can be made and easily locked by the knurled friction lock-ring. The drip rate is clearly visible through the large sight. Gravity feed valves are furnished with a vented sight chamber, provided by a split in the gasket above the sight glass. Valves for pressure applications have a solid gasket in both ends of the sight glass. (Non-vented)

### Standard Materials:

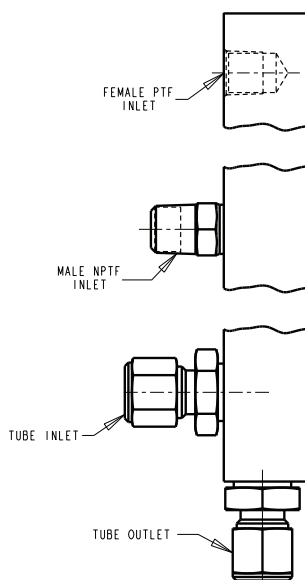
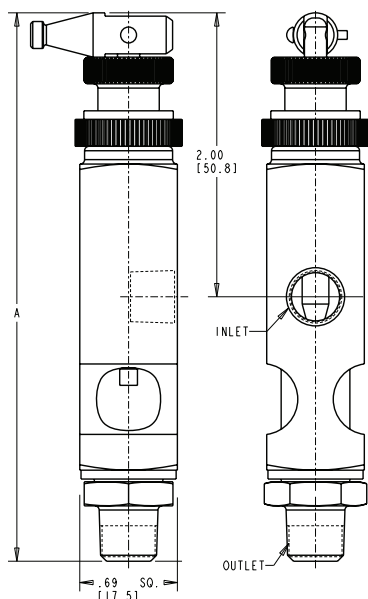
- Brass Construction
- Buna N Seals
- Pipe threads are dryseal

### Pressure Ratings:

- Pressure version is rated for maximum working pressure applications up to 125 PSI (862 kPa)
- .09 (2.39mm) minimum orifice

### NOTE:

- Please refer to Appendix LE-3 on page LE-A3 for Toggle Valve Adjustment Instructions



**NOTE:** All dimensions are inches [mm]

N470 Series - Angle Pattern			
Part No.		A	
Gravity	Pressure	Outlet	inches (mm)
1/8 PTF Female Inlet			
N471-02	—	1/8 Male	3.81 (96.77)
N471-03	—	1/4 Tube	4.00 (101.60)
1/8 NPTF Male Inlet			
N472-03	N472-13	1/4 Tube	4.00 (101.60)
1/4 NPTF Male Inlet			
N473-03	—	1/4 Tube	4.00 (101.60)

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# METERING & SHUT OFF VALVES

## NVM SERIES

The NVM Series is designed for controlled multiple oiling from central location. Lubricant, (in reservoir of dispenser) individually metered at valve bank, travels to various points servicing hard to get at places, and eliminating individual oil cups. Easily disassembled for cleaning. Individual valves remove without disturbing other components. Gravity feed valves are furnished with a vented sight chamber, provided by a split in the gasket above the sight glass.

### Standard Features:

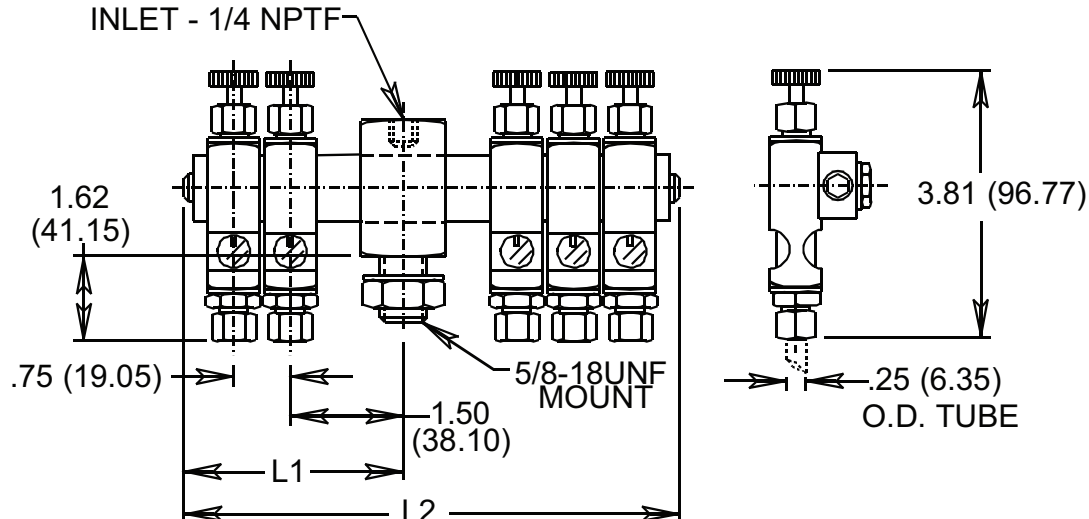
- Pressure units supplied with non-vented sight
- 2 to 8 feeds available

### Standard Materials:

- Aluminum Construction
- Buna N seals
- Gage glass sight

### Pressure Rating:

- Pressure applications up to 125 PSI (862 kPa) non-vented



**NOTE:** All dimensions are inches (mm)

NVM Series				
Part No.		Feeds	L1 inches (mm)	L2 inches (mm)
Gravity Vented Sight	Pressure Non-Vented Sight			
NVM102-002	NVM102-102	2	2.09 (53.09)	4.19 (106.43)
NVM102-003	NVM102-103	3	2.09 (53.09)	4.94 (125.48)
NVM102-004	NVM102-104	4	2.84 (72.14)	5.69 (144.53)
NVM102-005	NVM102-105	5	2.84 (72.14)	6.44 (163.58)
NVM102-006	NVM102-106	6	3.59 (91.19)	7.19 (182.63)
NVM102-008	NVM102-108	8	4.34 (110.24)	8.69 (220.73)



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# METERING & SHUT OFF VALVES

## TMF SERIES

The TMF Series is designed for extremely precise control of hydraulic and pneumatic actuators. Provides metered flow in one direction and free flow in the reverse direction.

### Standard Features:

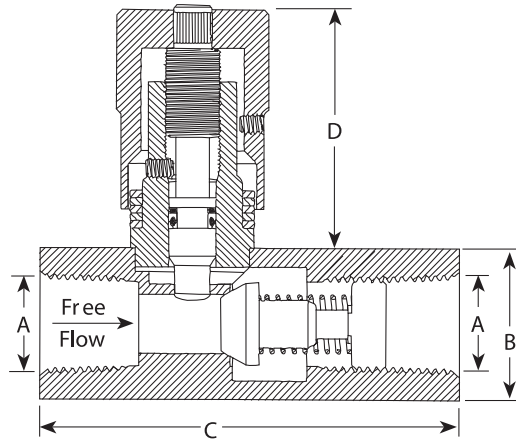
- Easy-to-read color bands and micrometer knobs for exact flow settings
- Re-set repeatability within 1%
- Precision-machined Double-Step stem with fine threading provides accurate control, even at extremely low flows
- Rugged, all metal construction - no plastic parts
- Bleed holes in piston provide a cushion to soften closing impact and extend valve life
- Brazed construction to withstand high pressure
- Set screw provided to secure valve setting
- Steel valves are zinc-plated AND sealed with black chrome for double corrosion protection
- 2° x 45° double-step stem taper
- 40 threads/inch stem pitch

### Standard Materials:

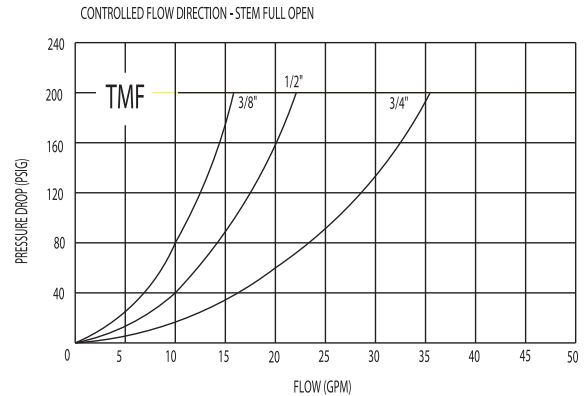
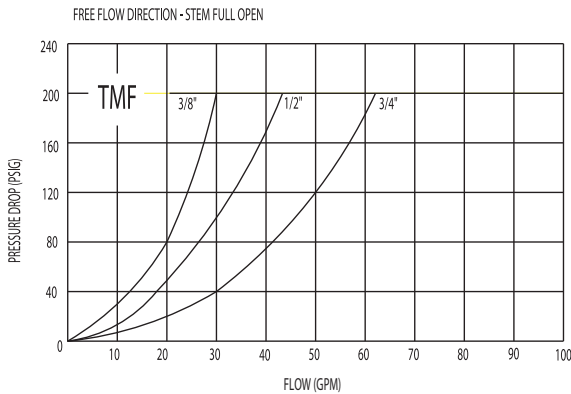
- Body - Steel
- Piston seal - Metal
- Piston, piston retainer, spring and stem, - Stainless Steel
- Knob & color bands - Anodized Aluminum
- Set screw - Steel
- Stem packing - Viton O-Ring with Teflon backup

### Temperature and Pressure Ratings:

- Maximum operating pressure 5000 PSI (34474 kPa)
- Temperature range: -20°F to +400°F (-28°C to 204 °C)
- Cracking Pressure (Check valve): 2 PSI (14 kPa)



### Performance



TMF Series (dimensions in inches)

Part No.	Body Material	Piston Seal	A NPT Female	B Square (inch)	C	D Max	Orifice Diameter	CV Free-flow Direction	CV Controlled Flow Direction
<b>TMF375S</b>	Steel	Metal	3/8	1.00	2.75	1.72	.22	2.95	.72
<b>TMF500S</b>	Steel	Metal	1/2	1.12	3.44	2.25	.31	4.50	1.07
<b>TMF750S</b>	Steel	Metal	3/4	1.50	3.88	2.47	.38	5.41	1.71

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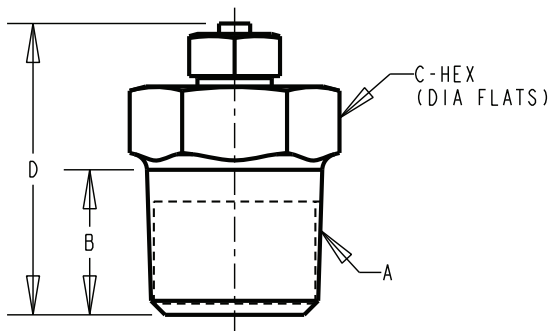
# PRESSURE/VACUUM RELIEF VENTS

## PRV100 SERIES

Dual purpose relief or filler vent plugs can be used for gear box housings and bearings where excessive pressures are not desirable. Unit will reseal itself for continuous duty.

### Standard Material:

- Plated steel



When ordering, select catalog number followed by suffix number for the relief pressure - (x).

### EXAMPLE:

**PRV104-4** — 15 to 25 PSI (103 to 172 kPa) relief pressure  
1/2-14 PTF

PRV100 Series				
Part No.	A PTF	B inches (mm)	C inches (mm)	D inches (mm)
PRV101-(x)	1/8	.31 (7.87)	.44 (11.18)	.59 (14.99)
PRV102-(x)	1/4	.50 (12.70)	.62 (15.75)	1.12 (28.45)
PRV103-(x)	3/8	.50 (12.70)	.75 (19.05)	1.19 (30.23)
PRV104-(x)	1/2	.62 (15.75)	.88 (22.35)	1.38 (35.05)

Suffix	-1 PSI (kPa)	-2 PSI (kPa)	-3 PSI (kPa)	-4 PSI (kPa)	-5 PSI (kPa)
Min.	.25 (1.7)	1 (6.9)	7.50 (51.7)	15 (103.4)	45 (310.3)
Max.	1 (6.9)	5 (34.5)	15 (103.4)	25 (172.4)	80 (551.6)

## PRV200 SERIES

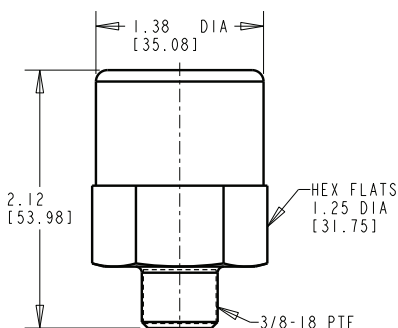
The PRV200 Series relief vents provide protection from excessive pressure buildup and from potential collapse caused by a vacuum condition forming in their installed applications. These valves are designed to exchange air between the interior of the reservoir and the outside atmosphere.

### Standard Feature:

- 3/8 inch PTF stud end

### Standard Materials:

- 20 micron bronze filter
- Steel body
- Aluminum cap
- Buna N seals



PRV200 Series		
Part No.	PSI (kPa)	Vacuum inches Hg (mm Hg)
PRV201-03	3.0 - 6.0 (20.7 - 41.4)	2.0 - 3.0 (50.8 - 76.2)
PRV201-13	6.0 - 12.0 (41.4 - 82.7)	28.0 - 30.0 (711.0 - 762.0)
PRV201-30	0.4 - 0.9 (2.8 - 6.2)	20.0 - 25.0 (508.0 - 635.0)

**NOTE:** All dimensions are inches (mm)

**NOTE:** Modifications are available

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# SAMPLING VALVE

## V101 SERIES

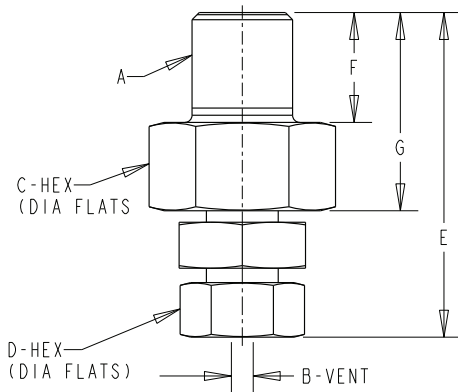
The V101 Series Sampling Valve is used to bleed excessive air pressure out of system or to sample liquid in system to view condition and clarity. A locknut prevents the screw from backing out of base in high vibration situations.

### Standard Materials:

- Brass construction
- Stainless Steel ball seated in brass

### Operating Conditions:

- For pressures up to 6000 PSI (41370 kPa)



V101 Series								
Part No.	A NPTF	B inches (mm)	C inches (mm)	D inches (mm)	E inches (mm)	F inches (mm)	G inches (mm)	Features
V101	1/8	.076 (1.93)	.56 (14.22)	.38 (9.65)	1.19 (30.23)	.38 (9.65)	.69 (17.53)	With Locknut

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Pg LE-51

# VENTED OIL GAGES

## G100 SERIES

The G100 Series vented brass oil gage has a male elbow base for direct side mounting. The viewing window has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .50 inch SQ base for G51-1 and G52-1
- .69 inch SQ base for G100 gages
- Male tapered pipe thread base connection (1/8, 1/4 or 3/8 inch NPTF)
- .31 inch wide viewing window on G51-1 and G52-1, length of .79 and 1.79 inches respectively
- .39 inch wide viewing window on G100 gages, length varies from .83 to 5.33 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

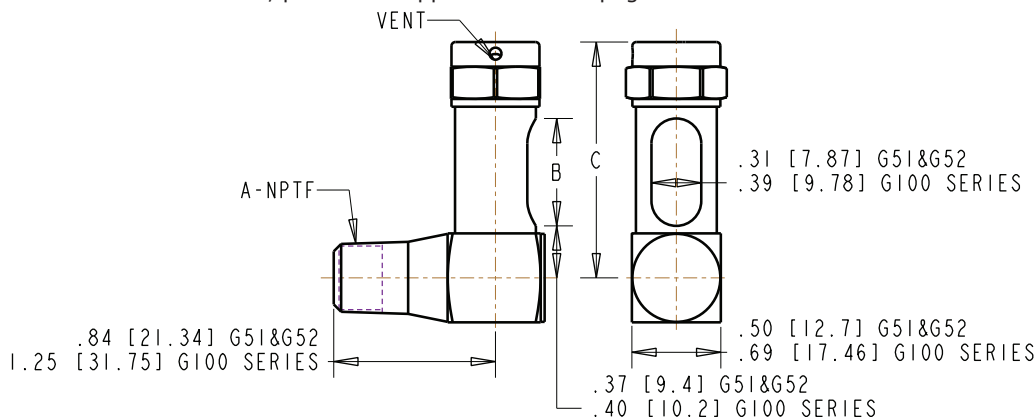
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Note:

- When installing oil gage in a confined space, disassemble base from oil gage to allow the individual base to be installed separately to the reservoir. Once base is in position and secure, reassemble the loose oil gage components to the base.
- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]

G100 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
<b>G51-1</b>	1/8	.79 (20.07)	1.61 (40.89)
<b>G52-1</b>	1/8	1.79 (45.47)	2.61 (66.29)
<b>G101-2</b>	1/4	.83 (21.08)	1.82 (46.23)
<b>G101-3</b>	3/8	.83 (21.08)	1.82 (46.23)
<b>G102-1</b>	1/8	1.33 (33.78)	2.32 (58.93)
<b>G102-2</b>	1/4	1.33 (33.78)	2.32 (58.93)
<b>G102-3</b>	3/8	1.33 (33.78)	2.32 (58.93)
<b>G103-1</b>	1/8	1.83 (46.48)	2.82 (71.63)
<b>G103-2</b>	1/4	1.83 (46.48)	2.82 (71.63)
<b>G103-3</b>	3/8	1.83 (46.48)	2.82 (71.63)

G100 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
<b>G104-2</b>	1/4	2.33 (59.18)	3.32 (84.33)
<b>G104-3</b>	3/8	2.33 (59.18)	3.32 (84.33)
<b>G105-1</b>	1/8	2.83 (71.88)	3.82 (97.03)
<b>G105-2</b>	1/4	2.83 (71.88)	3.82 (97.03)
<b>G105-3</b>	3/8	2.83 (71.88)	3.82 (97.03)
<b>G106-2</b>	1/4	3.33 (84.58)	4.32 (109.73)
<b>G106-3</b>	3/8	3.33 (84.58)	4.32 (109.73)
<b>G107-2</b>	1/4	4.33 (109.98)	5.32 (135.13)
<b>G107-3</b>	3/8	4.33 (109.98)	5.32 (135.13)
<b>G108-2</b>	1/4	5.33 (135.38)	6.32 (160.53)
<b>G108-3</b>	3/8	5.33 (135.38)	6.32 (160.53)



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# VENTED OIL GAGES

## GT100 SERIES

The GT100 Series vented brass oil gage has a male elbow base and integral, wetted dial thermometer providing direct reading of the fluid temperature. The viewing window has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .88 inch SQ base
- Male tapered pipe thread base connection (1/4, 3/8, 1/2 or 3/4 inch NPTF)
- .39 inch wide viewing window, length varies from 1.33 to 7.33 inches depending on gage selected
- 1.38 inch diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

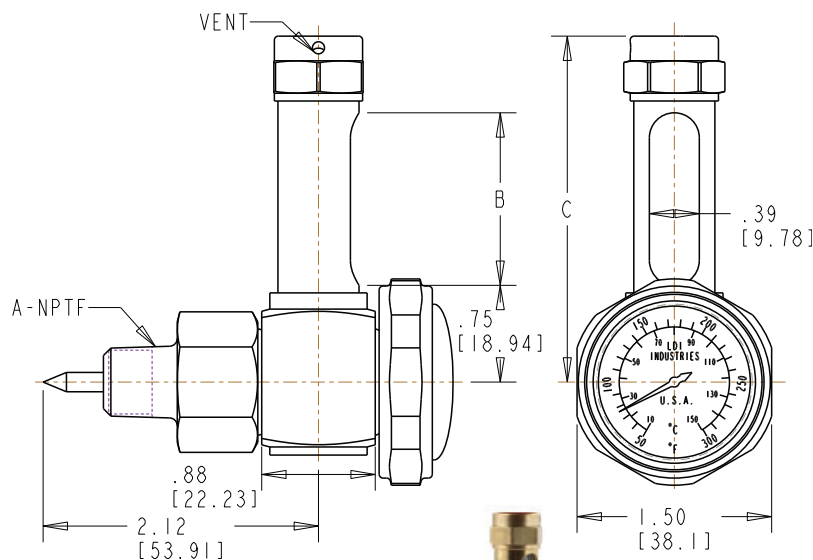
- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Notes:

- When installing oil gage in a confined space, disassemble the base subassembly from the rest of the oil gage. The base subassembly consists of the pipe adapter, base and thermometer. Install the base subassembly separately to the reservoir. Once base subassembly is in position and secure, reassemble the loose oil gage components to the base.
- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.

### Caution:

Reservoir must be drained to remove dial thermometer or loss of fluid will occur.



**NOTE:** All dimensions are inches [mm]



GT100 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
GT102-2	1/4	1.33 (33.78)	2.66 (67.56)
GT102-3	3/8	1.33 (33.78)	2.66 (67.56)
GT103-2	1/4	1.83 (46.48)	3.16 (80.26)
GT105-2	1/4	2.83 (71.88)	4.16 (105.66)
GT105-3	3/8	2.83 (71.88)	4.16 (105.66)
GT105-4	1/2	2.83 (71.88)	4.16 (105.66)
GT107-4	1/2	4.33 (109.98)	5.66 (143.76)
GT108-2	1/4	5.33 (135.38)	6.66 (169.16)
GT108-4	1/2	5.33 (135.38)	6.66 (169.16)
GT108-5	3/4	5.33 (135.38)	6.66 (169.16)
GT109-5	3/4	7.33 (186.18)	8.66 (219.96)

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# VENTED OIL GAGES

## GTW100 SERIES

The GTW100 Series vented brass oil gage has a male elbow base with integral dial thermometer. The viewing window has 360° adjustment during installation for optimal orientation to view fluid during installation. The dry dial thermometer is self-contained within a thermowell for monitoring fluid temperature. This construction allows the thermometer face to be rotated after gage installation for optimal viewing position. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .88 inch SQ base
- Male tapered pipe thread base connection (3/8 or 1/2 inch NPTF)
- .39 inch wide viewing window, length varies from 1.83 to 5.33 inches depending on gage selected
- 360° adjustment of viewing window
- 1.38" diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C
- Dial thermometer may be rotated or removed from gage without loss of fluid
- Suitable for use with most machine lubricating oils

### Standard Materials:

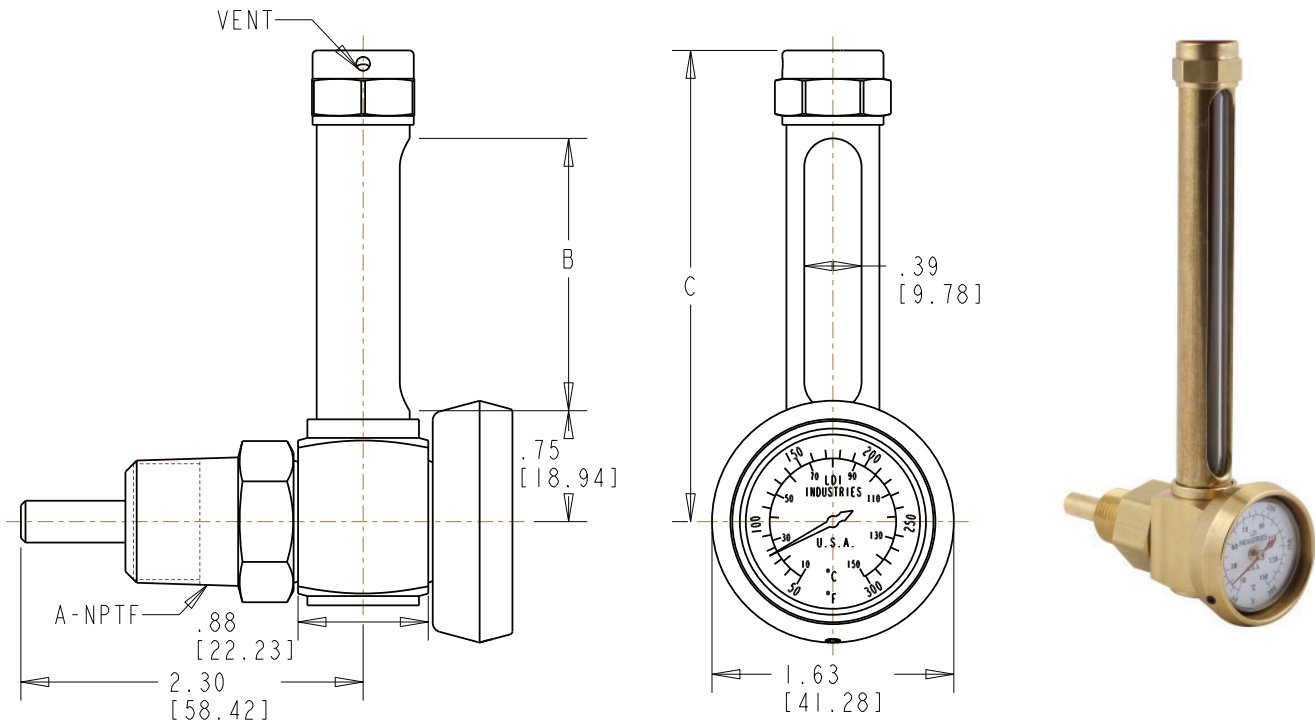
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Notes:

- When installing oil gage in a confined space, disassemble the base subassembly from the rest of the oil gage. The base subassembly consists of the pipe adapter, base and thermometer. Install the base subassembly separately to the reservoir. Once base subassembly is in position and secure, reassemble the loose oil gage components to the base.
- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]

GTW100 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
GTW103-4	1/2	1.83 (46.48)	3.16 (80.26)
GTW107-3	3/8	4.33 (109.98)	5.66 (143.76)
GTW108-4	1/2	5.33 (135.38)	6.66 (169.16)

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# VENTED OIL GAGES

## G150 SERIES

The G150 Series vented oil gage has a long male elbow base for direct side mounting. The viewing window has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .69 inch SQ base
- Male tapered pipe thread base connection (1/8, 1/4 or 3/8 inch NPTF)
- .39 inch wide viewing window, length varies from 1.33 to 4.33 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

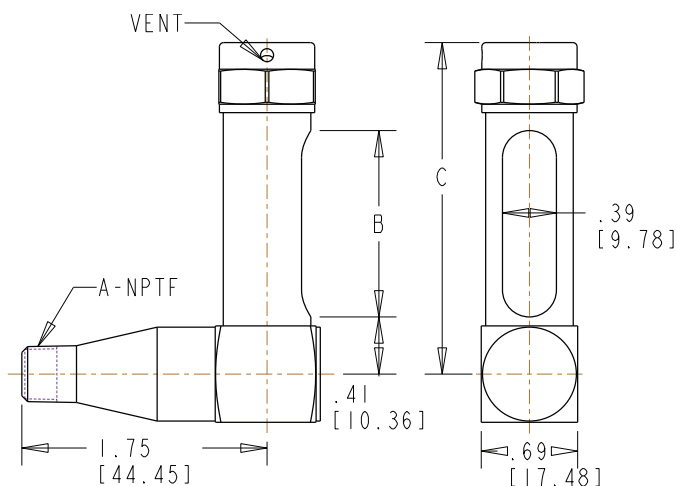
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings

### Notes:

- When installing oil gage in a confined space, disassemble base from oil gage to allow the individual base to be installed separately to the reservoir. Once base is in position and secure, reassemble the loose oil gage components to the base.
- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]



G150 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
G152-1	1/8	1.33 (33.78)	2.32 (58.93)
G152-2	1/4	1.33 (33.78)	2.32 (58.93)
G152-3	3/8	1.33 (33.78)	2.32 (58.93)
G153-1	1/8	1.83 (46.48)	2.82 (71.63)
G153-2	1/4	1.83 (46.48)	2.82 (71.63)
G153-3	3/8	1.83 (46.48)	2.82 (71.63)
G154-2	1/4	2.33 (59.18)	3.32 (84.33)
G155-1	1/8	2.83 (71.88)	3.82 (97.03)
G155-2	1/4	2.83 (71.88)	3.82 (97.03)
G155-3	3/8	2.83 (71.88)	3.82 (97.03)
G156-1	1/8	3.33 (84.58)	4.32 (109.73)
G156-2	1/4	3.33 (84.58)	4.32 (109.73)
G156-3	3/8	3.33 (84.58)	4.32 (109.73)
G157-2	1/4	4.33 (109.98)	5.32 (135.13)
G157-3	3/8	4.33 (109.98)	5.32 (135.13)

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# VENTED OIL GAGES

## GTW150 SERIES

The GTW150 Series vented brass oil gage has a male elbow base with integral dial thermometer. The viewing window has 360° adjustment during installation for optimal orientation to view fluid during installation. The dry dial thermometer is self-contained within a thermowell for monitoring fluid temperature. This construction allows the thermometer face to be rotated after gage installation for optimal viewing position. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .88 inch SQ base
- Male tapered pipe thread base connection (1/4, 1/2 or 3/4 inch NPTF)
- .39 inch wide viewing window, length varies from 1.33 to 7.33 inches depending on gage selected
- 360° adjustment of viewing window
- 1.81 inch diameter dual scale dial thermometer, 0° to 300°F and -20° to 150°C
- Dial thermometer may be rotated or removed from gage without loss of fluid
- Suitable for use with most machine lubricating oils

### Standard Materials:

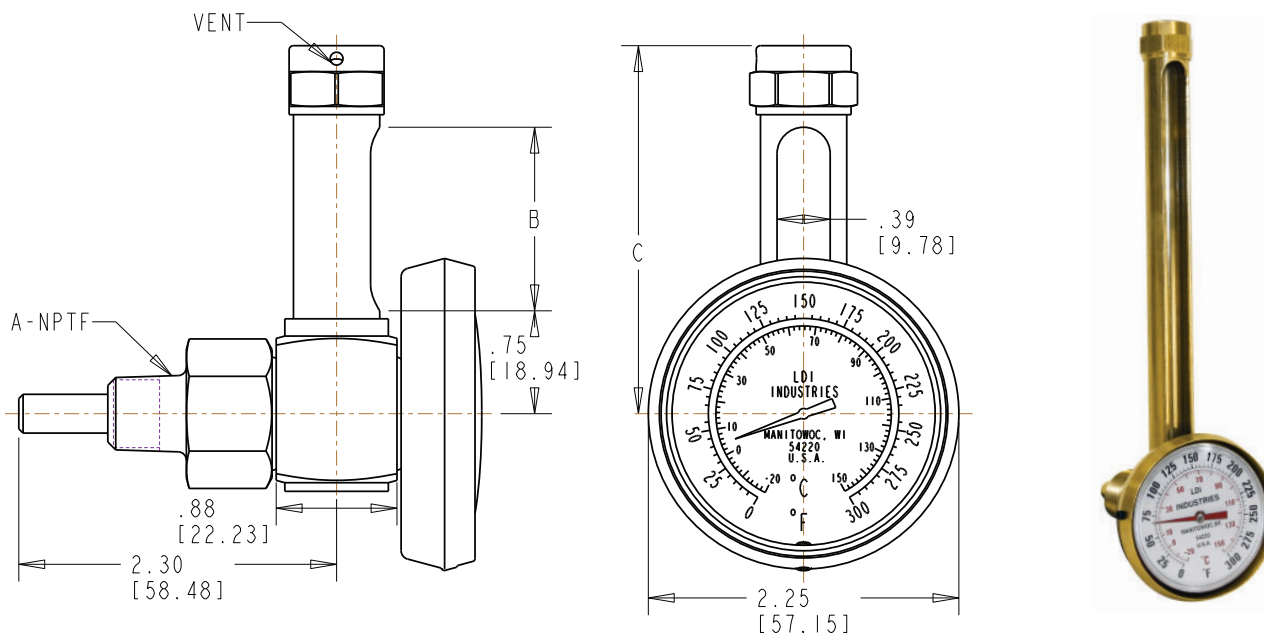
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Notes:

- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]

GTW150 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
GTW152-2	1/4	1.33 (33.78)	2.66 (67.56)
GTW154-2	1/4	2.33 (59.18)	3.66 (92.96)
GTW157-4	1/2	4.33 (109.98)	5.66 (143.76)
GTW158-4	1/2	5.33 (135.38)	6.66 (169.16)
GTW159-5	3/4	7.33 (186.19)	8.66 (219.96)

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# VENTED OIL GAGES

## G200 SERIES

The G200 Series vented brass oil gage has a male elbow base for direct side mounting. The viewing window has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .88 inch SQ base
- Male tapered pipe thread base connection (3/8 or 1/2 inch NPTF)
- .53 inch wide viewing window, length varies from 4.33 to 12.58 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

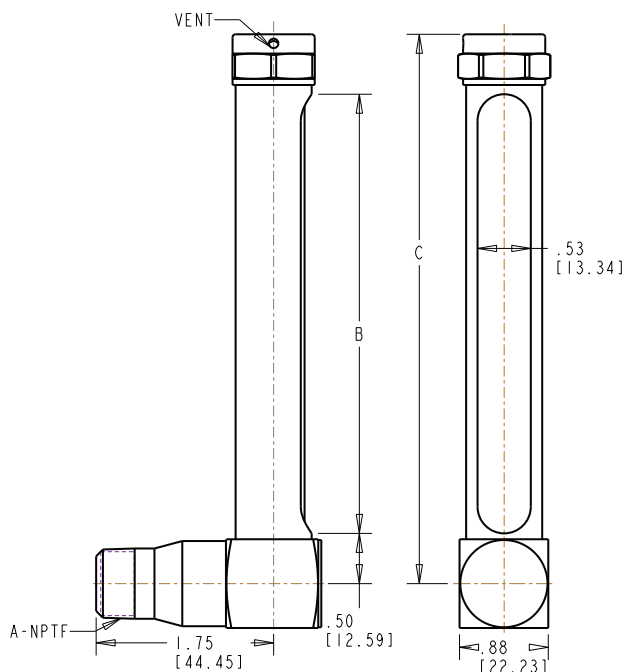
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Notes:

- When installing oil gage in a confined space, disassemble base from oil gage to allow the individual base to be installed separately to the reservoir. Once base is in position and secure, reassemble the loose oil gage components to the base.
- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]

G200 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
G211-3	3/8	4.33 (109.98)	5.42 (137.67)
G211-4	1/2	4.33 (109.98)	5.42 (137.67)
G213-3	3/8	7.58 (192.53)	8.67 (220.22)
G213-4	1/2	7.58 (192.53)	8.67 (220.22)
G214-4	1/2	9.58 (243.33)	10.67 (271.02)
G215-3	3/8	12.58 (319.53)	13.67 (347.22)
G215-4	1/2	12.58 (319.53)	13.67 (347.22)

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# VENTED OIL GAGES

## G260 SERIES

The G260 Series vented oil gage has a long male elbow base for direct side mounting. The viewing window has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .88 inch SQ base
- Male tapered pipe thread base connection (3/8 or 1/2 inch NPTF)
- .53 inch wide viewing window, length varies from 4.33 to 12.58 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

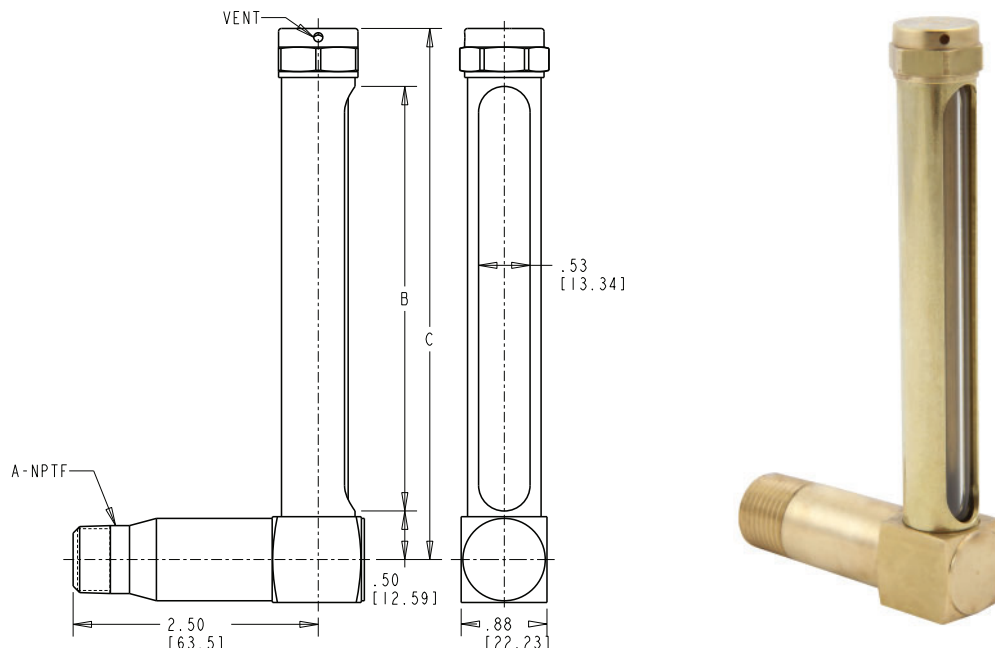
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Notes:

- When installing oil gage in a confined space, disassemble base from oil gage to allow the individual base to be installed separately to the reservoir. Once base is in position and secure, reassemble the loose oil gage components to the base.
- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]

G260 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
G261-3	3/8	4.33 (109.98)	5.42 (137.67)
G261-4	1/2	4.33 (109.98)	5.42 (137.67)
G262-4	1/2	5.58 (141.73)	6.67 (169.42)
G263-3	3/8	7.58 (192.53)	8.67 (220.22)
G263-4	1/2	7.58 (192.53)	8.67 (220.22)
G265-3	3/8	12.58 (319.53)	13.67 (347.22)
G265-4	1/2	12.58 (319.53)	13.67 (347.22)

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# VENTED OIL GAGES

## G300 SERIES

The G300 Series vented brass oil gage has a straight hex base with male pipe thread. A shield with machined viewing window surrounds the tubular glass sight. The viewing window has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- Gage base machined from brass hex bar stock
- Male tapered pipe thread base connection (1/8, 1/4 or 3/8 inch NPTF)
- .39 inch wide viewing window, length varies from 1.79 to 7.33 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

- Brass construction
- Buna N seals
- Borosilicate glass sight

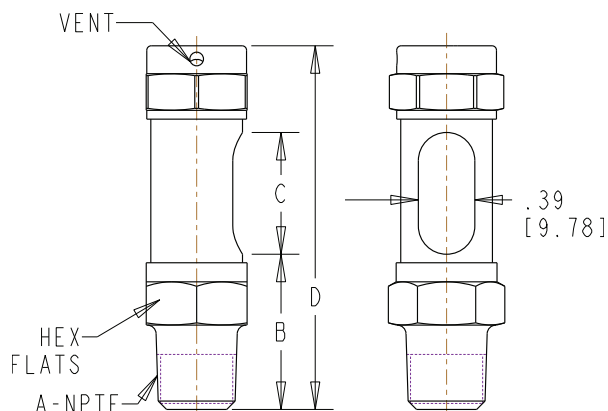
### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Note:

- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.

G300 Series					
Part No.	A NPTF	B inches (mm)	C inches (mm)	D inches (mm)	HEX FLATS
G62-1	1/8	.79 (20.07)	1.79 (45.47)	3.06 (77.72)	.50 (12.70)
G301-2	1/4	1.06 (26.87)	.83 (21.08)	2.48 (62.99)	.69 (17.53)
G302-1	1/8	.87 (22.10)	1.33 (33.78)	2.29 (58.17)	.69 (17.53)
G302-2	1/4	1.06 (26.87)	1.33 (33.78)	2.98 (75.69)	.69 (17.53)
G302-3	3/8	1.06 (26.87)	1.33 (33.78)	2.98 (75.69)	.69 (17.53)
G303-1	1/8	.87 (22.10)	1.83 (46.48)	3.29 (83.57)	.69 (17.53)
G303-2	1/4	1.06 (26.87)	1.83 (46.48)	3.48 (88.39)	.69 (17.53)
G303-3	3/8	1.06 (26.87)	1.83 (46.48)	3.48 (88.39)	.69 (17.53)
G304-2	1/4	1.06 (26.87)	2.33 (59.18)	3.98 (101.09)	.69 (17.53)
G304-3	3/8	1.06 (26.87)	2.33 (59.18)	3.98 (101.09)	.69 (17.53)



NOTE: All dimensions are inches [mm]

G300 Series (cont'd)					
Part No.	A NPTF	B inches (mm)	C inches (mm)	D inches (mm)	HEX FLATS
G305-2	1/4	1.06 (26.87)	2.83 (71.88)	4.48 (113.79)	.69 (17.53)
G305-3	3/8	1.06 (26.87)	2.83 (71.88)	4.48 (113.79)	.69 (17.53)
G306-2	1/4	1.06 (26.87)	3.33 (84.58)	4.98 (126.49)	.69 (17.53)
G306-3	3/8	1.06 (26.87)	3.33 (84.58)	4.98 (126.49)	.69 (17.53)
G307-1	1/8	.87 (22.10)	4.33 (109.98)	5.79 (147.07)	.69 (17.53)
G307-2	1/4	1.06 (26.87)	4.33 (109.98)	5.98 (151.89)	.69 (17.53)
G307-3	3/8	1.06 (26.87)	4.33 (109.98)	5.98 (151.89)	.69 (17.53)
G308-2	1/4	1.06 (26.87)	5.33 (135.38)	6.98 (177.29)	.69 (17.53)
G308-3	3/8	1.06 (26.87)	5.33 (135.38)	6.98 (177.29)	.69 (17.53)
G309-2	1/4	1.06 (26.87)	7.33 (186.18)	8.98 (228.09)	.69 (17.53)
G309-3	3/8	1.06 (26.87)	7.33 (186.18)	8.98 (228.09)	.69 (17.53)

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# VENTED OIL GAGES

## G320 SERIES

The G320 Series vented brass oil gage has a large straight hex base with male pipe thread. A shield with machined viewing window surrounds the tubular glass sight. The viewing window has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- Gage base machined from brass hex bar stock
- Male tapered pipe thread base connection (3/8, 1/2 or 3/4 inch NPTF)
- .53 inch wide viewing window, length varies from 4.33 to 12.58 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oil

### Standard Materials:

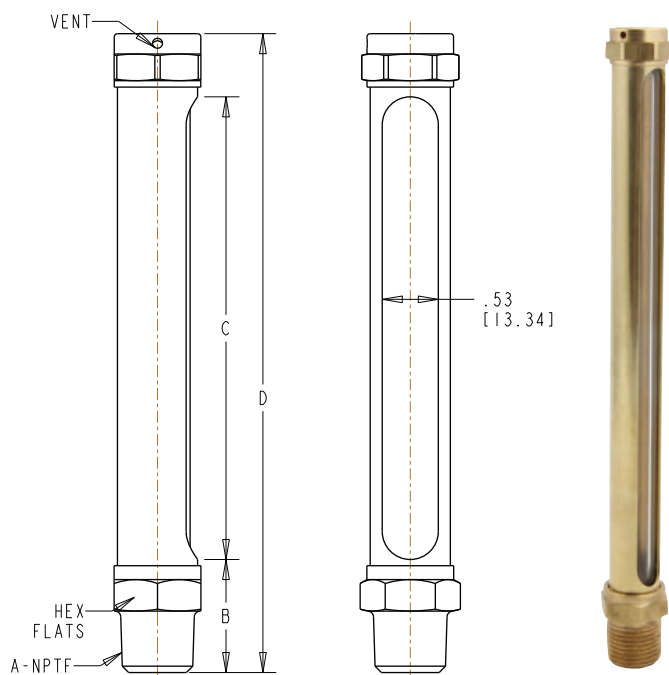
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Note:

- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]

G320 Series					
Part No.	A NPTF	B inches (mm)	C inches (mm)	D inches (mm)	HEX FLATS
G321-3	3/8	1.16 (29.46)	4.33 (109.98)	6.00 (152.40)	.81 (20.57)
G321-4	1/2	1.35 (34.29)	4.33 (109.98)	6.19 (157.23)	.94 (23.88)
G322-3	3/8	1.16 (29.46)	5.58 (141.73)	7.25 (184.14)	.81 (20.57)
G322-4	1/2	1.35 (34.29)	5.58 (141.73)	7.44 (188.98)	.94 (23.88)
G322-5	3/4	1.35 (34.29)	5.58 (141.73)	7.44 (188.98)	1.06 (26.92)
G323-2	1/4	1.16 (29.46)	7.58 (192.53)	9.25 (234.95)	.81 (20.57)
G323-4	1/2	1.35 (34.29)	7.58 (192.53)	9.44 (239.78)	.94 (23.88)
G324-2	1/4	1.16 (29.46)	9.58 (243.33)	11.25 (285.75)	.81 (20.57)
G324-3	3/8	1.16 (29.46)	9.58 (243.33)	11.25 (285.75)	.81 (20.57)
G324-4	1/2	1.35 (34.29)	9.58 (243.33)	11.44 (290.58)	.94 (23.88)
G325-3	3/8	1.16 (29.46)	12.58 (319.53)	14.25 (361.95)	.81 (20.57)
G325-4	1/2	1.35 (34.29)	12.58 (319.53)	14.44 (366.78)	.94 (23.88)

# VENTED OIL GAGES

## G400 SERIES

The G400 Series vented brass oil gage has a female elbow base. A shield with machined viewing window surrounds the tubular glass sight. The viewing window has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .88 inch SQ base machined from brass bar stock
- Female tapered pipe thread base connection (1/8, 1/4 or 3/8 inch NPTF)
- .39 inch wide viewing window, length varies from .83 to 5.33 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

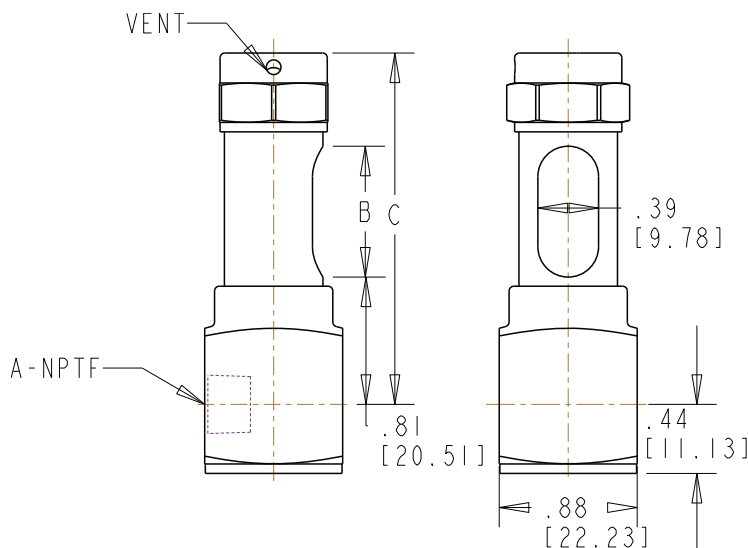
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Notes:

- When installing oil gage in a confined space, disassemble base from oil gage to allow the individual base to be installed separately to the reservoir. Once base is in position and secure, reassemble the loose oil gage components to the base.
- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]



G400 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
G401-1	1/8	.83 (21.08)	2.23 (56.72)
G402-1	1/8	1.33 (33.78)	2.73 (69.42)
G402-2	1/4	1.33 (33.78)	2.73 (69.42)
G402-3	3/8	1.33 (33.78)	2.73 (69.42)
G403-1	1/8	1.83 (46.48)	3.23 (82.12)
G403-2	1/4	1.83 (46.48)	3.23 (82.12)
G403-3	3/8	1.83 (46.48)	3.23 (82.12)
G404-2	1/4	2.33 (59.18)	3.73 (94.82)
G405-1	1/8	2.83 (71.88)	4.23 (107.52)
G405-2	1/4	2.83 (71.88)	4.23 (107.52)
G405-3	3/8	2.83 (71.88)	4.23 (107.52)
G406-2	1/4	3.33 (84.58)	4.73 (120.22)
G407-2	1/4	4.33 (109.98)	5.73 (145.62)
G408-2	1/4	5.33 (135.38)	6.73 (171.02)

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# VENTED OIL GAGES

## G420 SERIES

The G420 Series vented brass oil gage has a female elbow base. A shield with machined viewing window surrounds the tubular glass sight. The viewing window has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- 1.00 inch SQ base machined from brass bar stock
- Female tapered pipe thread base connection (3/8 or 1/2 inch NPTF)
- .53 inch wide viewing window, length varies from 4.33 to 12.58 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

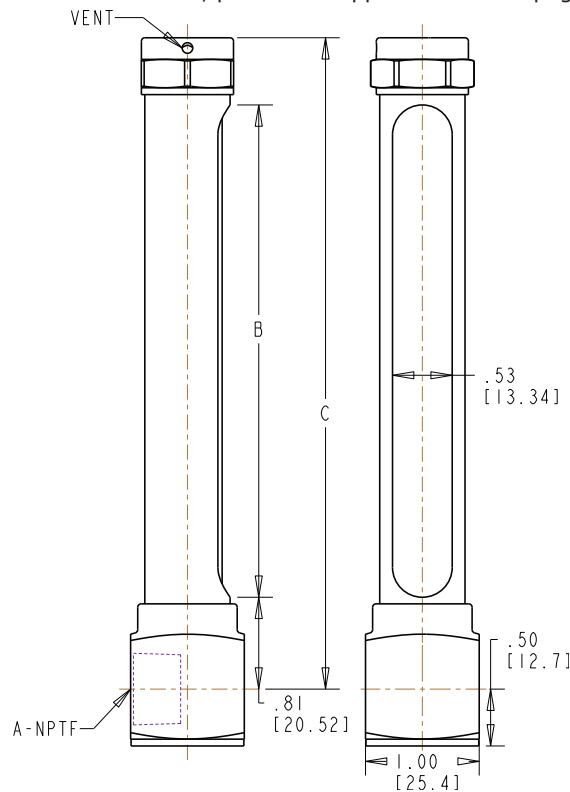
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Note:

- When installing oil gage in a confined space, disassemble base from oil gage to allow the individual base to be installed separately to the reservoir. Once base is in position and secure, reassemble the loose oil gage components to the base.
- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]

G420 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
G421-3	3/8	4.33 (109.98)	5.73 (145.62)
G421-4	1/2	4.33 (109.98)	5.73 (145.62)
G423-3	3/8	7.58 (192.53)	8.98 (228.17)
G423-4	1/2	7.58 (192.53)	8.98 (228.17)
G425-4	1/2	12.58 (319.53)	13.98 (355.09)

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# VENTED OIL GAGES

## G650 SERIES

The G650 Series vented oil gage utilizes an adapter union fitting to connect the base of the oil gage to the reservoir. This construction offers advantages when installing oil gages in confined spaces by not requiring disassembly of the gage base. The viewing window and shield do not rotate during installation of the oil gage. The viewing window still has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .69 inch SQ base
- Adapter union fitting between reservoir and gage base
- Reservoir thread connections of 1/8, 1/4 or 3/8 inch NPTF
- .39 inch wide viewing window, length varies from 1.33 to 7.33 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

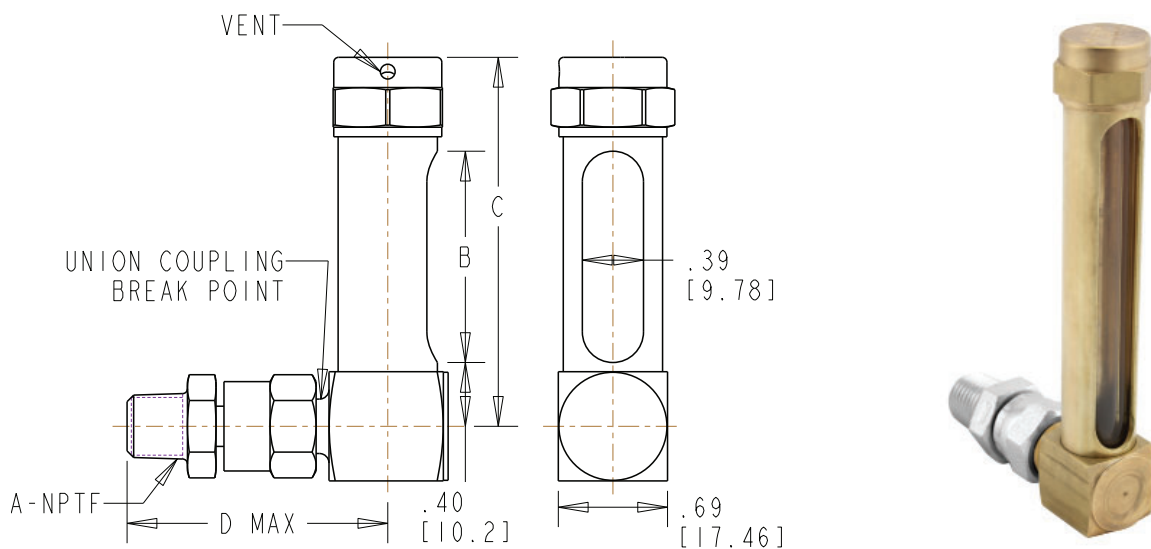
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Note:

- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]

G650 Series				
Part No.	A NPTF	B inches (mm)	C inches (mm)	D inches (mm)
G652-1	1/8	1.33 (33.78)	2.32 (58.93)	1.68 (42.67)
G652-2	1/4	1.33 (33.78)	2.32 (58.93)	2.17 (55.12)
G652-3	3/8	1.33 (33.78)	2.32 (58.93)	2.25 (57.15)
G653-1	1/8	1.83 (46.48)	2.82 (71.63)	1.68 (42.67)
G653-2	1/4	1.83 (46.48)	2.82 (71.63)	2.17 (55.12)
G653-3	3/8	1.83 (46.48)	2.82 (71.63)	2.25 (57.15)
G654-1	1/8	2.33 (59.18)	3.32 (84.33)	1.68 (42.67)
G654-2	1/4	2.33 (59.18)	3.32 (84.33)	2.17 (55.12)
G654-3	3/8	2.33 (59.18)	3.32 (84.33)	2.25 (57.15)

G650 Series				
Part No.	A NPTF	B inches (mm)	C inches (mm)	D inches (mm)
G655-1	1/8	2.83 (71.88)	3.82 (97.03)	1.68 (42.67)
G655-2	1/4	2.83 (71.88)	3.82 (97.03)	2.17 (55.12)
G655-3	3/8	2.83 (71.88)	3.82 (97.03)	2.25 (57.15)
G656-2	1/4	3.33 (84.58)	4.32 (109.73)	2.17 (55.12)
G656-3	3/8	3.33 (84.58)	4.32 (109.73)	2.25 (57.15)
G657-2	1/4	4.33 (109.98)	5.32 (135.13)	2.17 (55.12)
G658-2	1/4	5.33 (135.38)	6.32 (160.53)	2.17 (55.12)
G658-3	3/8	5.33 (135.38)	6.32 (160.53)	2.25 (57.15)
G659-2	1/4	7.33 (186.18)	8.32 (211.33)	2.17 (55.12)
G659-3	3/8	7.33 (186.18)	8.32 (211.33)	2.25 (57.15)

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# VENTED OIL GAGES

## G710 SERIES

The G710 Series vented oil gage utilizes an adapter union fitting to connect the base of the oil gage to the reservoir. This construction offers advantages when installing oil gages in confined spaces by not requiring disassembly of the gage base. The viewing window and shield do not rotate during installation of the oil gage. The viewing window still has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .88 inch SQ base
- Adapter union fitting between reservoir and gage base
- .53 inch wide viewing window, length varies from 4.33 to 12.58 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

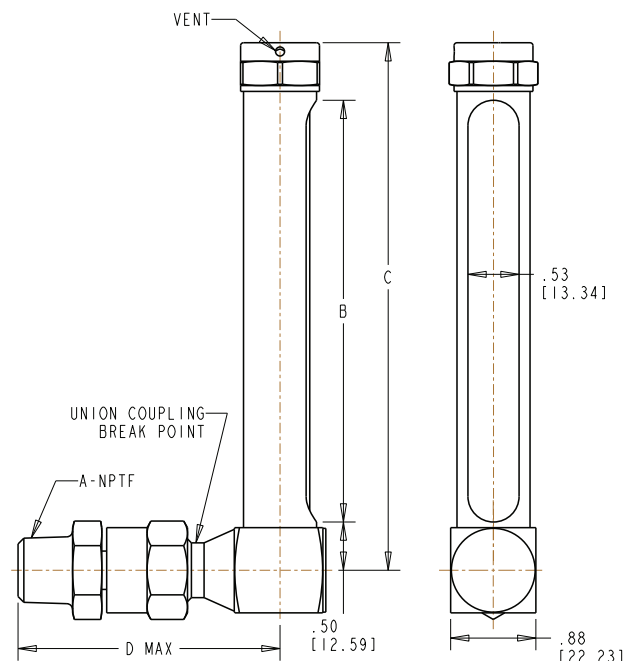
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Note:

- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]



G710 Series				
Part No.	A NPTF	B inches (mm)	C inches (mm)	D inches (mm)
G711-3	3/8	4.33 (109.98)	5.42 (137.67)	2.69 (68.33)
G711-4	1/2	4.33 (109.98)	5.42 (137.67)	2.79 (70.87)
G713-3	3/8	7.58 (192.53)	8.67 (220.22)	2.69 (68.33)
G713-4	1/2	7.58 (192.53)	8.67 (220.22)	2.79 (70.87)
G715-3	3/8	12.58 (319.53)	13.67 (347.22)	2.69 (68.33)
G715-4	1/2	12.58 (319.53)	13.67 (347.22)	2.79 (70.87)

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# VENTED OIL GAGES

## G800 SERIES

The G800 Series vented brass oil gage has a male elbow base with integral drain. Flow through the drain is controlled by a needle valve in the gage base. The viewing window has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .69 inch SQ base
- Male tapered pipe thread base connection (1/8, 1/4 or 3/8 inch NPTF)
- Designed for removal of base to facilitate gage installation in a confined space
- Drain with needle valve control
- .39 inch wide viewing window, length varies from 1.33 to 5.33 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

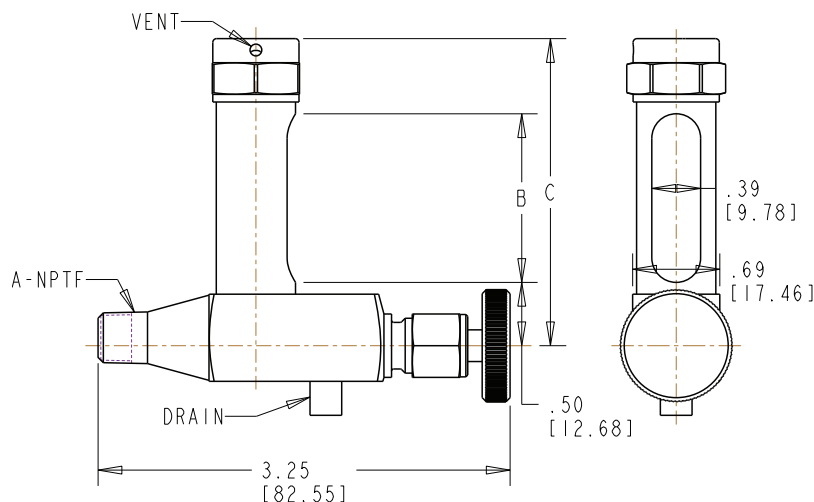
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Note:

- When installing oil gage in a confined space, disassemble the base needle valve subassembly from the rest of the oil gage. Install the base subassembly separately to the reservoir. Once base subassembly is in position and secure, reassemble the loose oil gage components to the base.
- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]



G800 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
G802-1	1/8	1.33 (33.78)	2.42 (61.47)
G802-2	1/4	1.33 (33.78)	2.42 (61.47)
G802-3	3/8	1.33 (33.78)	2.42 (61.47)
G803-1	1/8	1.83 (46.48)	2.92 (74.17)
G803-2	1/4	1.83 (46.48)	2.92 (74.17)
G804-2	1/4	2.33 (59.18)	3.42 (86.87)
G805-1	1/8	2.83 (71.88)	3.92 (99.57)
G805-2	1/4	2.83 (71.88)	3.92 (99.57)
G805-3	3/8	2.83 (71.88)	3.92 (99.57)
G806-2	1/4	3.33 (84.58)	4.42 (112.27)
G806-3	3/8	3.33 (84.58)	4.42 (112.27)
G807-2	1/4	4.33 (109.98)	5.42 (137.67)
G807-3	3/8	4.33 (109.98)	5.42 (137.67)
G808-3	3/8	5.33 (135.38)	6.42 (163.07)

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# VENTED OIL GAGES

## G900 SERIES

The G900 Series vented brass oil gage with male elbow base with integral drain. Flow through the drain is controlled by a needle valve in the gage base. Thread options include 3/8 or 1/2 NPTF threads. The viewing window has 360° adjustment for optimal orientation to view fluid after installation. The sealing gaskets are contained on both their ID and OD to facilitate trouble-free assembly after on-site repositioning of the viewing window.

### Standard Features:

- .88 inch SQ base
- Male tapered pipe thread base connection (3/8 or 1/2 inch NPTF)
- Designed for removal of base to facilitate gage installation in a confined space
- Drain with needle valve control
- .53 inch wide viewing window, length varies from 4.33 to 12.58 inches depending on gage selected
- 360° adjustment of viewing window
- Suitable for use with most machine lubricating oils

### Standard Materials:

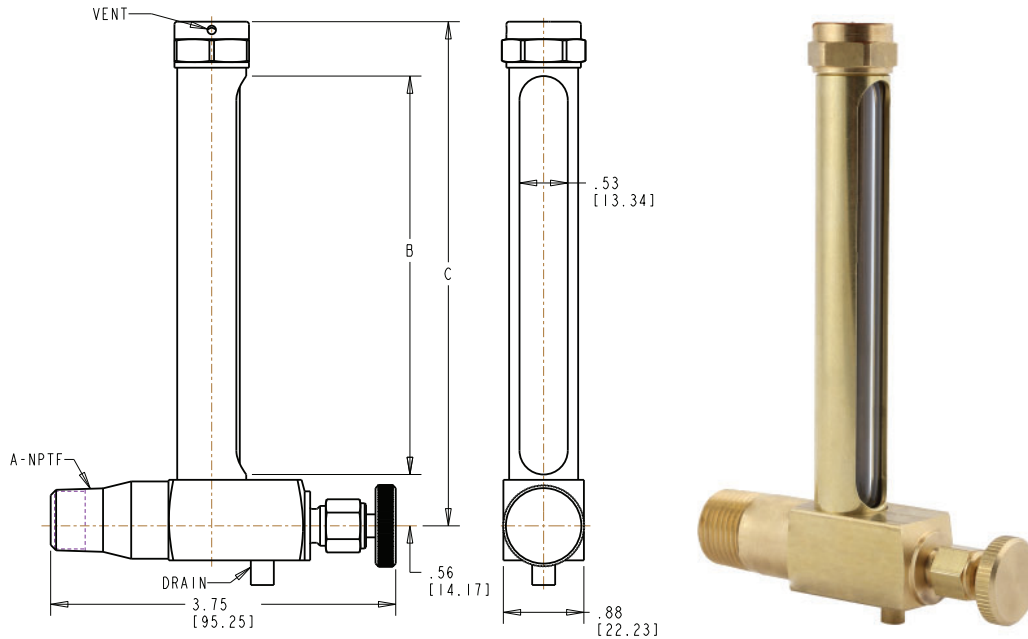
- Brass construction
- Buna N seals
- Borosilicate glass sight

### Temperature Rating:

- Maximum operating temperature of 250°F (121°C) with standard Buna N seals. For applications not compatible with Buna N seal material, consult factory for available options and corresponding temperature ratings.

### Notes:

- When installing oil gage in a confined space, disassemble the base needle valve subassembly from the rest of the oil gage. Install the base subassembly separately to the reservoir. Once base subassembly is in position and secure, reassemble the loose oil gage components to the base.
- Oil Gage Modifications are available, please see Appendix LE-1 on page LE-A1 for more information.



**NOTE:** All dimensions are inches [mm]

G900 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
G901-3	3/8	4.33 (109.98)	5.48 (139.19)
G901-4	1/2	4.33 (109.98)	5.48 (139.19)
G903-3	3/8	7.58 (192.53)	8.73 (221.74)
G903-4	1/2	7.58 (192.53)	8.73 (221.74)
G905-3	3/8	12.58 (319.53)	13.73 (348.74)
G905-4	1/2	12.58 (319.53)	13.73 (348.74)

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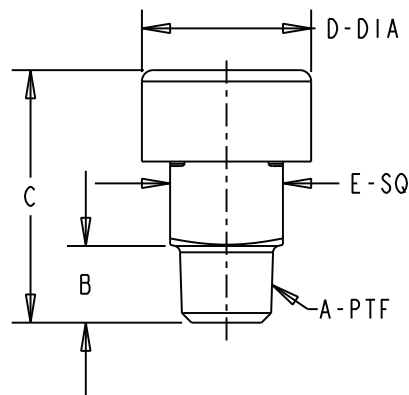
# VENTS & BREATHERS

## AV100 SERIES

The AV100 Series of protected vents features a labyrinth air path that restricts direct entry of dirt and moisture.

### Standard Material:

- Aluminum construction



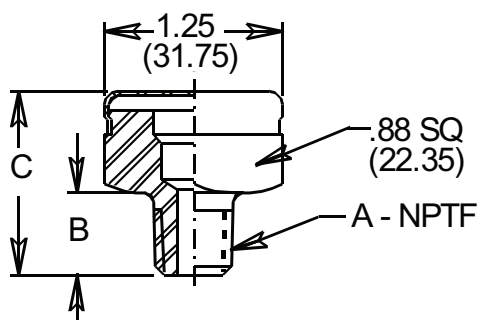
AV100 Series					
Part No.	A PTF	B inches (mm)	C inches (mm)	D inches (mm)	E inches (mm)
AV101	1/8	.33 (8.38)	1.12 (28.45)	.75 (19.05)	.50 (12.70)
AV102	1/4	.50 (12.70)	1.19 (30.23)	.75 (19.05)	.56 (14.22)
AV103	3/8	.51 (12.95)	1.25 (31.75)	1.00 (25.40)	.69 (17.53)
AV104	1/2	.66 (16.76)	1.31 (33.27)	1.25 (31.75)	.88 (22.35)
AV105	3/4	.66 (16.76)	1.50 (38.10)	1.50 (38.10)	1.12 (28.45)

## AV200 SERIES

The AV200 Series of high flow vents features a large flow area with a low profile and tamper proof cap.

### Standard Materials:

- Steel construction
- Zinc plated



**NOTE:** All dimensions are inches (mm)



AV200 Series			
Part No.	A NPTF	B inches (mm)	C inches (mm)
AV201	1/8	.38 (9.65)	1.08 (27.43)
AV202	1/4	.56 (14.22)	1.26 (32.00)
AV203	3/8	.56 (14.22)	1.26 (32.00)
AV204	1/2	.75 (19.05)	1.45 (36.83)

**AV200 Series currently made to order.  
(Minimum order may be required)**

### ORDERING OPTIONS:

No suffix = Full Flow.

- B Baffle
- F Felt filter (SAE F10 material)
- S Screen (100 mesh Stainless Steel)

### HOW TO ORDER

#### EXAMPLE:

**AV204-S** — Optional screen (100 mesh Stainless Steel)  
AV204 Series

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

02/14

Ph : 920-682-6877  
Fx : 920-684-7210

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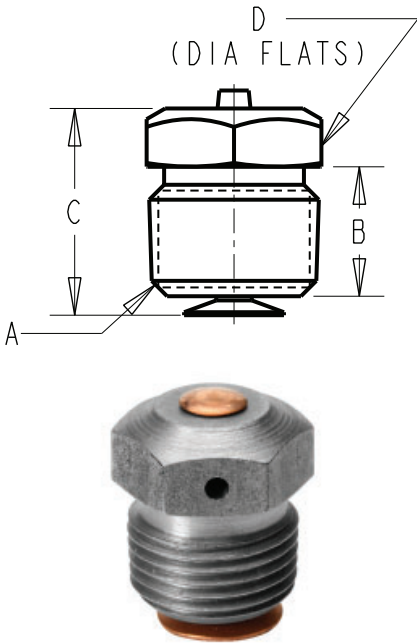
# VENTS & BREATHERS

## AV50 SERIES

The AV50 Series of baffle vents are used to vent gear cases, transmission housings and speed reducers.

### Standard Materials:

- Steel body
- Copper baffle



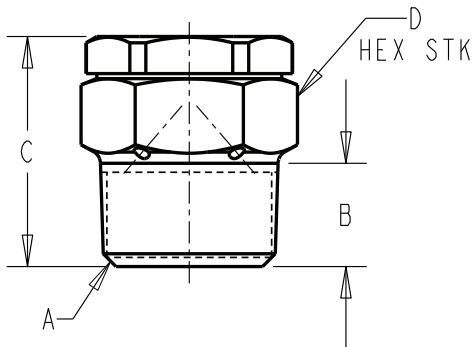
AV50 Series				
Part No.	A PTF	B inches (mm)	C inches (mm)	D inches (mm)
AV51	1/8	.31 (7.87)	.75 (19.05)	.44 (11.18)
AV52	1/4	.50 (12.70)	1.25 (31.75)	.62 (15.75)
AV53	3/8	.50 (12.70)	1.00 (25.40)	.69 (17.53)
AV54	1/2	.64 (16.26)	1.16 (29.46)	.88 (22.35)
AV55	3/4	.66 (16.76)	1.50 (38.10)	1.25 (31.75)

## FV100 SERIES

The FV100 Series of filter vents features a 40 micron filter element which is easily removable for cleaning.

### Standard Materials:

- Steel zinc plated construction
- Optional 10 micron filter element is available



FV100 Series				
Part No.	A PTF	B inches (mm)	C inches (mm)	D inches (mm)
FV101-S	1/8	.31 (7.87)	1.06 (26.92)	.75 (19.05)
FV102-S	1/4	.50 (12.70)	1.19 (30.23)	.75 (19.05)
FV103-S	3/8	.50 (12.70)	1.03 (26.16)	.75 (19.05)
FV104-S	1/2	.62 (15.75)	1.21 (30.73)	.94 (23.88)
FV105-S	3/4	.62 (15.75)	1.37 (34.80)	1.12 (28.45)
FV106-S	1	.81 (20.57)	1.56 (39.62)	1.38 (35.05)

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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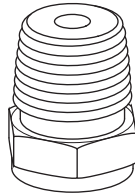
# APPENDIX LE-1

## OIL GAGE MODIFICATIONS

Modifications are specified below. Standard shield threads are 5/8-27 or 3/4-27. Minimum order quantity may be required.

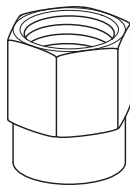
### TOP CAP with MALE PIPE NPTF (dryseal)

- 1MP = 1/8 inch
- 2MP = 1/4 inch
- 3MP = 3/8 inch
- 4MP = 1/2 inch



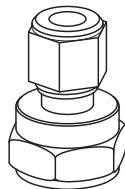
### TOP CAP with FEMALE PIPE NPTF (dryseal)

- 1FP = 1/8 inch
- 2FP = 1/4 inch
- 3FP = 3/8 inch



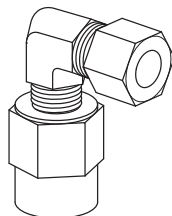
### TOP CAP with COMPRESSION FITTING STRAIGHT TUBE

- O.D. TUBE
- 1T = 1/8 inch
- 3T = 1/4 inch



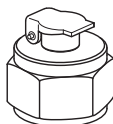
### TOP CAP with COMPRESSION FITTING 90° TUBE

- O.D. TUBE
- 3TA = 1/4 inch
- 4TA = 5/16 inch



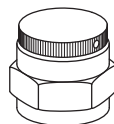
### TOP CAP with SNAP LID FILLER

- 1FC



### TOP CAP with THREADED FILLER

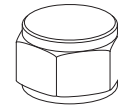
- 2FC



### TOP CAP, NON VENTED

- 1NV

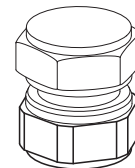
Up to 100 PSI



### TOP CAP with REPLACEABLE 40 MICRON FILTER VENT

- FV

Available for both  
diameter sizes



### ADJUSTABLE BRASS RING(S) FLUID LEVEL INDICATORS

- 1RNG = One ring
- 2RNG = Two rings

ADJUSTABLE  
RING  
LOCATION



### SEAL MATERIALS OTHER THAN BUNA N (STANDARD)

- 2BU = Butyl
- 3VI = Viton A®
- 4EP = Ethylene Propylene
- 5SI = Silicone

### SIGHT MATERIALS OTHER THAN GAGE GLASS (STANDARD)

Minimum order quantity may be required

- 1PC = Polycarbonate

### METAL GAGE PARTS OTHER THAN BRASS (STANDARD)

Minimum order quantity may be required

- A = Aluminum

## HOW TO ORDER LDI INDUSTRIES OIL GAGES WITH MODIFICATIONS

Specify the catalog number and pipe thread of the gage required. Then simply choose the modifications you need using the order code shown above, separating each with a dash.

If you need a modification not included above ask us about it! We will be happy to quote from your sketch or specifications.

### EXAMPLE:

**G105-1-A-1PC-3VI** — Viton A® Seals  
 — Polycarb sight  
 — Aluminum construction  
 — 1/8 NPTF threads  
 — Catalog Number G105

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## APPENDIX LE-2

### INSTALLATION INSTRUCTIONS - PMP100-( ) AIR OPERATED

1. Prior to mounting the **PMP100**:, install the 1/8-27 NPT(F) outlet fittings (S) at the bottom of each metering pump while holding the 1/2" HEX outlet adapters(S) with a wrench.

2. To greatly shorten the "self priming" time of the **PMP100**, pre-fill the liquid inlet (**SEE DIAGRAM**) and supply lines prior to operation. Connect an **LDI "R" SERIES VENTED RESERVOIR** from 1 oz. to 1 gal., sized to hold enough fluid to meet your servicing schedule. **DO NOT DISASSEMBLE THE PMP100 AS DAMAGE TO THE PUMP COULD RESULT.**

3. Mounting the PMP100(S) and connecting the fluid supply: the clear window at the top of each metering pump is offered as a means to visually verify that the lube cycles are taking place. The PMP100 will operate in any position and can be located above or below the reservoir.

**NOTE:** If the reservoir is to be remotely mounted from the PMP100, it is recommended to use a minimum of 1/4" I.D. tube as a supply line. Location should provide protection from spilled liquids, dirt, physical damage, vibration and temperatures below or 32°F above 110°F.

**DO NOT USE ANY PRESSURIZED RESERVOIRS, REGARDLESS OF FLUID OR GREASE.**

4. Connecting the air circuits and electrical to the PMP100(S): a filtered and regulated air supply (15 TO 125 PSI) is to be connected to the inlet of the 3-Way Air Solenoid Valve (LDI P/N 823160, 120V/60Hz) and it's outlet connected to the air inlet of the PMP100(S). The solenoid leads are to be connected to either an existing P.L.C. or the basic adjustable repeat cycle timer

**NOTE:** Some "grease" applications may require an optional timer (LDI P/N 833380, 120V/60Hz). The timer lead should be connected to a fused & grounded electrical supply (usually to the control voltage of the machinery to be lubricated). The cycle timer will begin to cycle upon start up.

5. Adjusting the lube cycle interval and individual volume control output(s): Begin by setting the "off" time between cycles at an interval that seems to be reasonable to suit the overall application. Adjust each PMP100 outlet(s) to meet the proper individual application requirement as needed. The adjustment of cycle times and the individual output volumes will offer a wide range of flexibility to meet most application requirement.

▪ Each outlet will dispense up to .012 cu .in. per cycle at full setting and is adjustable downward to zero (0) volume output.

▪ **DO NOT PLUG OFF ANY OUTLET LINES.** Simply adjust any unused outlets by turning the knurled adjusting ring clockwise to the zero (0) output setting, or remove the unused pump(s).

## TOGGLE VALVE ADJUSTMENT INSTRUCTIONS

### MINIMUM LIFT CONDITION – FIG. 1

1. Loosen friction lock-ring
2. Raise toggle to "on" position and turn metering adjustment screw in until toggle and screw just clear each other.
3. The toggle is now in a no lift condition. Fluid will not flow since the port will not be open.
4. Gradually start turning metering adjustment screw out with the toggle in the "on" positions, and at the same time observe drip rate at the nozzle.
5. When proper drip rate is established, hold metering adjustment screw in place and turn down friction lock-ring to lock setting.
6. To stop flow, flip toggle to "off" position.
7. To start flow, raise toggle to "on" position. Drip rate, as previously set is retained.

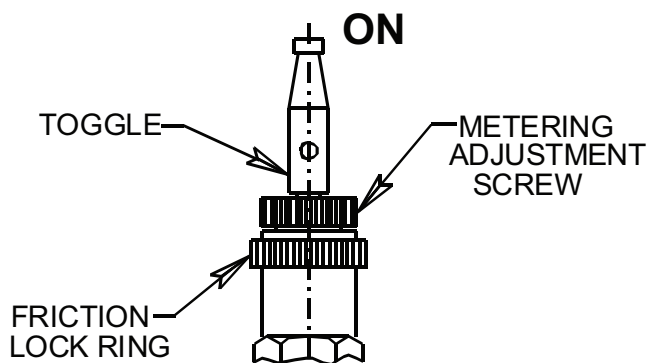


FIG. 1

Set until light can be seen between mating surfaces or until a slight free wiggle of toggle can be felt.

### MAXIMUM LIFT CONDITION – FIG. 2

1. Loosen friction lock-ring.
2. Flip toggle to "off" position and turn metering adjustment screw out until toggle and metering adjustment screw just clear each other.
3. Do not turn metering adjustment screw beyond this point. Doing so will lift valve stem off of the seat, allowing uncontrolled flow of fluid and no shut-off.
4. Raise toggle to "on" position and observe drip rate at the nozzle.
5. If flow is too great, turn metering adjustment screw in until desired drip rate is reached, hold metering adjustment screw in place and turn down friction lock-ring to lock setting.
6. To stop flow, flip toggle to "off" position.
7. To start flow, raise toggle to "on" position. Drip rate, as previously set is retained.

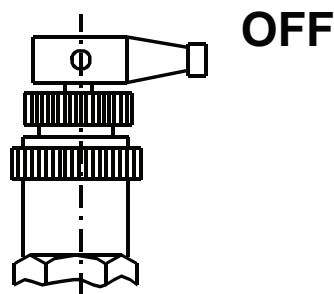


FIG. 2

Toggle valves are normally shipped with toggle in "off" position but with some lift when raised to "on" position. This setting may not be required. Please check and adjust the setting to your specific needs.