

BM-B Lubricator

Electric, Grease



General

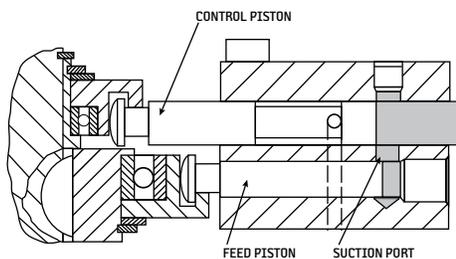
In applications where electricity is available to power the lubricator, the BM-B model is ideally suited to be the heart of a lubrication system. These pumps are robust for harsh and severe applications and their compact construction of high-grade steel gives them a long service life.

Operation

Normally, the pump is supplied as a complete electric motor-driven package. The BM-B is a valveless positive displacement pump consisting of a series of pistons actuated in a controlled sequence by an eccentric cam. The motion develops a controlled suction and discharge action, producing a rugged, trouble-free lubricator.

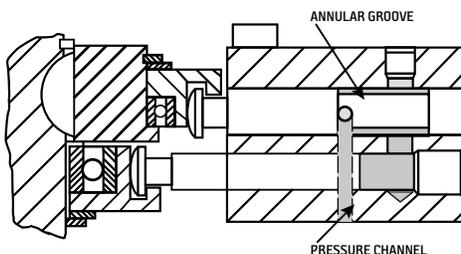
A pressure relief valve is incorporated into the BM-B pump. This device can be adjusted to control operating pressure to the centralized lubricating system. Various electric geared motors are available (See *How to Order* chart specifying motor sizes and characteristics to output capacities).

Suction Stroke



As the eccentric cam rotates, the control piston moves to the left, opening the suction port. Further rotation of the eccentric cam moves the feed piston to the left, creating a volumetric displacement that draws in lubricant.

Discharge Stroke



Controlled motion, through the cam action, moves the control piston forward (to the right) to complete a full stroke. This action closes off the suction port inlet and uncovers (through the annular groove in the control piston) the discharge channel. The feed piston begins its forward movement and begins displacing lubricant around the control piston's annular groove through the discharge port to the pressure outlet in the lower housing. As the lubricant feed piston completes its stroke, the control plunger commences the suction stroke.



ATTENTION

When using a hydraulic changeover valve, do not exceed the maximum operating pressure rating of valve.

ATTENTION

The BM-B pump should always be mounted in a vertical position. Check motor connections so that rotation of the pump shaft is counter-clockwise (motor fan runs in a counter-clockwise direction).

BIJUR DELIMON INTERNATIONAL

(919) 465 4448 LOCAL
(800) 631 0168 TOLL-FREE
(919) 465 0516 FAX

WWW.BIJURDELIMON.COM

2100 Gateway Centre Blvd., Suite 109
Morrisville, NC 27560

Features

- + Extremely reliable due to positive piston control.
- + Long service life due to use of wear-resistant high-grade steel.
- + Compact and robust construction.
- + Adjustable pressure relief valve.
- + Various drive methods: Model BM-B pump is supplied as a self-contained package, complete with a reduction gear and flange mounted motor. Note the drive coupling is completely enclosed to provide adequate protection on completion of field installation.
- + Grease stirrer and wedge plate assembly: This standard feature is found inside the reservoir. It rotates slowly to work the grease, removing it from the inner wall and developing a slight pressure to the suction chamber. This feature permits various types of greases to be used successfully in the pump.
- + Grease strainer cup: Located at bottom of reservoir, it is easily accessible through lower housing. Dirt collected is retained inside the housing and is easily removed after disassembly.
- + Level controls: Ultrasonic level switch. (Optional)

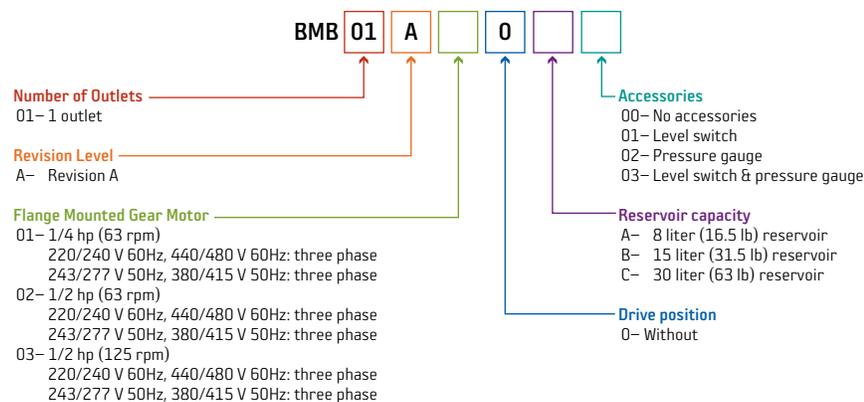
Technical Data

Maximum working pressure	5800 psi (400 bar)
Discharge	2 & 4 liter/h, dependant upon driving speed
Maximum outputs, nominal (ref. motor sizes)	63 rpm 2.44 cu. in./min. (40cc/min.)
	125 rpm 4.88 cu. in./min (80cc/min.)
Reservoir capacity	8 liter (16.5 lb), 15 liter (31.5 lb) and 30 liter (63 lb)
Suitable grease lubricants	Up to NLGI #2
Other greases and oils (includes synthetic types)	Consult Bijur Delimon
Temperature range (ambient)	-5 °F to 176 °F (-20 °C to 80 °C)
Built-in pressure relief value	0 to 5800 psi (0 to 40 bar)

Maintenance

Ensure that only clean lubricant is used in pump and reservoir. When replenishing grease, always fill reservoir through the refill connection coupling provided on the unit. This action minimizes introduction of air pockets into lubricator and distribution system.

How to Order



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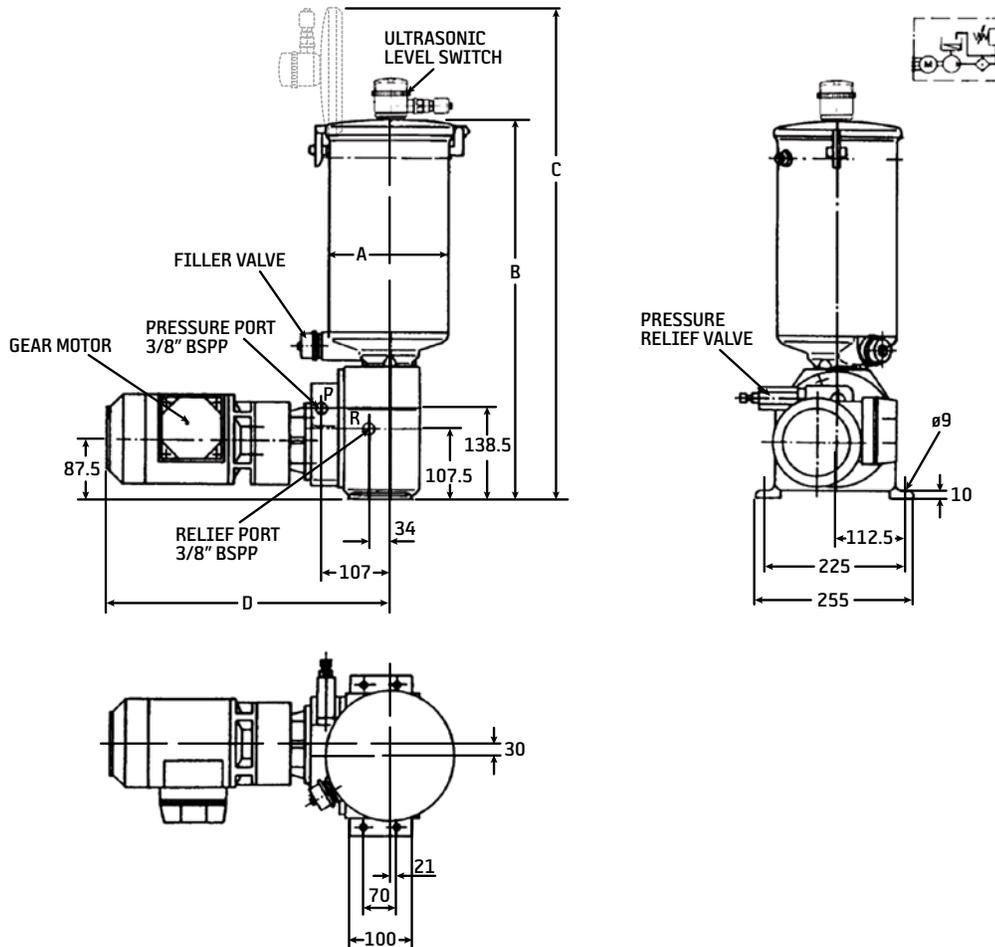
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Dimensional Schematics

Measurements shown in millimeters.



		Dimensions (mm)			
	Design	A	B	C	D
Reservoir Capacity	16.5 lb. (8 liter)	Φ 190	595	785	---
	31.5 lb. (15 liter)	Φ 240	630	870	---
	63 lb. (30 liter)	Φ 310	700	1010	---
Motor power rating	1/2 hp for 63 rpm	---	---	---	406
	1/2 hp for 63 rpm	---	---	---	432
	1/2 hp for 125 rpm	---	---	---	424

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