

# BS-B Lubricator

## Electric, Grease

### General

The BS-B Lubricator is used in cases where a lot of lubrication points shall centrally and reliably be supplied with lubricant. BS-B is also suitable for filling and lubrication systems.

### Application

The BS-B pump is ideally suitable for applications where long extended main line runs and a large number of friction points are to be reliably served from one central station. In conjunction with distributors type ZV-B downstream the pump is predominantly used in dual-line centralized systems, but also as filling-or greasing pump.

### Operation

Basically it consists of a body with plunger assembly and reservoir. The rotation is converted inside the pump head into an oscillating movement. The BS-B double-acting pump has two pairs of plunger (feed pistons and pilot pistons) which move simultaneously into a common bore.

Whilst one pair of pistons is on the suction stroke in one bore, the other pair forces the lubricant in a second bore into the pressure channel. The pilot pistons are positively-controlled i.e. they are displaced mechanically into its end position following each cycle, thus preventing blocking, as is likely to occur with hydraulically-or spring-controlled plungers.

The required feed pressure is adjustable thanks to an integral pressure relief valve. In the event of an inadmissibly overpressure situation occurring an additional safeguard (burst plates) is incorporated to protect the pump element from damage. The pump need not be bled.

### Features

- + High reliability due to forced control
- + Pump can be supplied complete with a geared motor
- + Long service life thanks to the use of wear-resistant high-grade steel
- + Compact and rugged design
- + Surface signal grey RAL 7004

### Technical Data

Maximum working pressure	5800 psi (400 bar)
Discharge	7, 4 & 22 liter/h, dependant upon driving speed
Maximum outputs, nominal (ref. motor sizes)	80 rpm    7.3 cu. in./min. (120cc/min.)
	160 rpm    14.3 cu. in./min (235cc/min.)
	250 rpm    22.2 cu. in./min. (365cc/min.)
Reservoir capacity	60 liter (126 lb), 100 liter (210 lb)
Grease	Up to NLGI grade 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)



#### ATTENTION

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

#### ATTENTION

*The BS-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

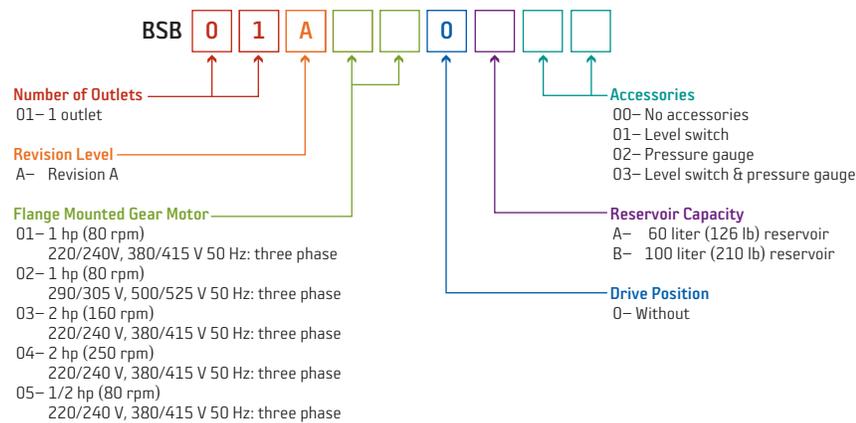
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Morrisville, NC 27560

## 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



The BS-B Lubricator features a smart part number ordering system, where you can tailor the pump to meet your needs. First, choose the number of outlets, revision level, flange mounted gear motor, drive position, reservoir capacity and accessories you need. Then, put the numbers into the corresponding squares in the easy-to-use grid. You now have the customized part number.

Example: To order a 1 outlet, revision A, 1/4 hp (63 rpm) flange mounted gear motor, without drive position, 8 liter reservoir, with level switch, you would use Part #01A010A01.

### ATTENTION

A level switch is available for the indication of the filling level in the reservoir, using a proximity sensor. As soon as the minimum or maximum level allowed has been obtained, a signal is released. With the help of a signal lamp at the reservoir, this signal can be used for the visual warning or for the control of an automatic filling facility.

In case of receiving the order, we will attach particular operating instructions to the level switch with the following code: BA\_2005\_1\_GB\_76951\_6011.

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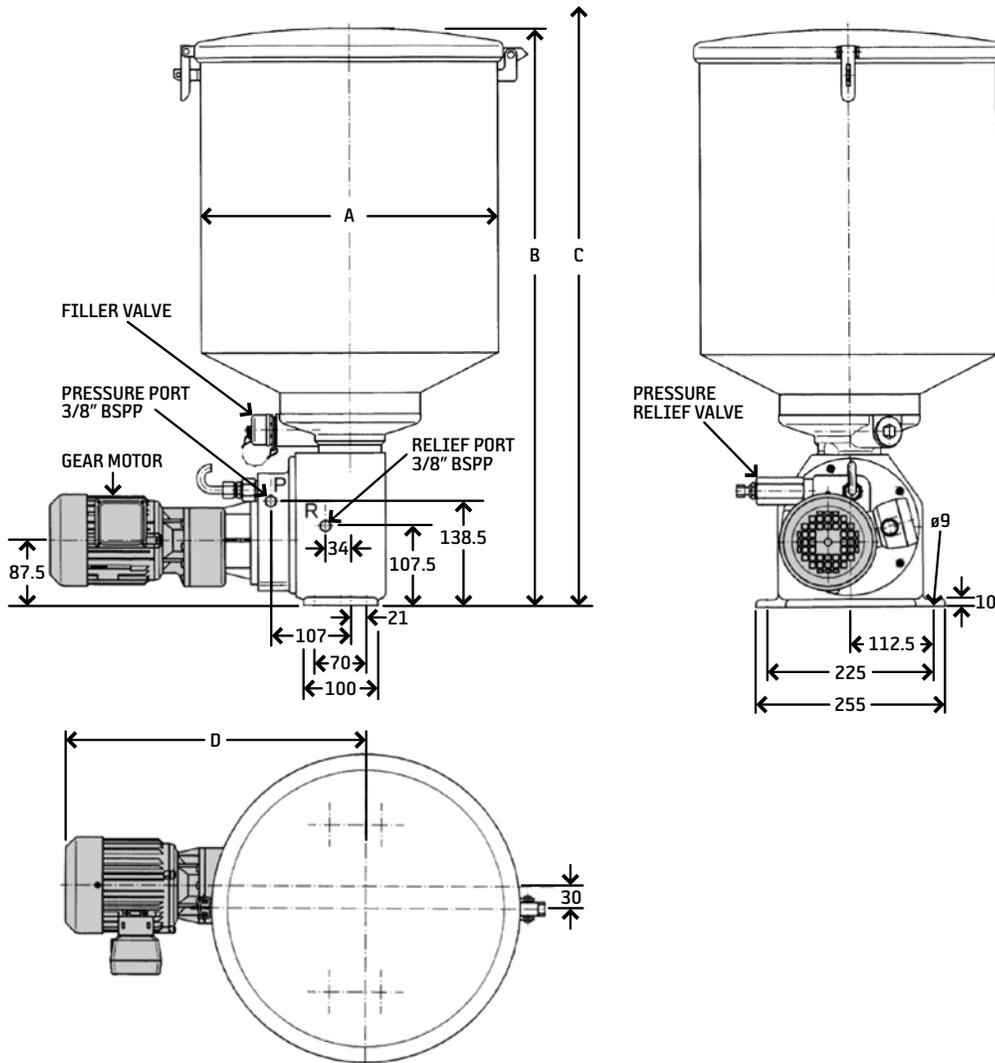
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## Dimensional Schematics

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

\* Dimension when lid is open

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