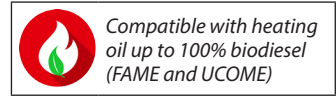


Data sheet

# Burner Fuel Mobile Pump Type BFM



## Application

BFM pumps are specially designed for mobile heating applications up to 24 l/h.

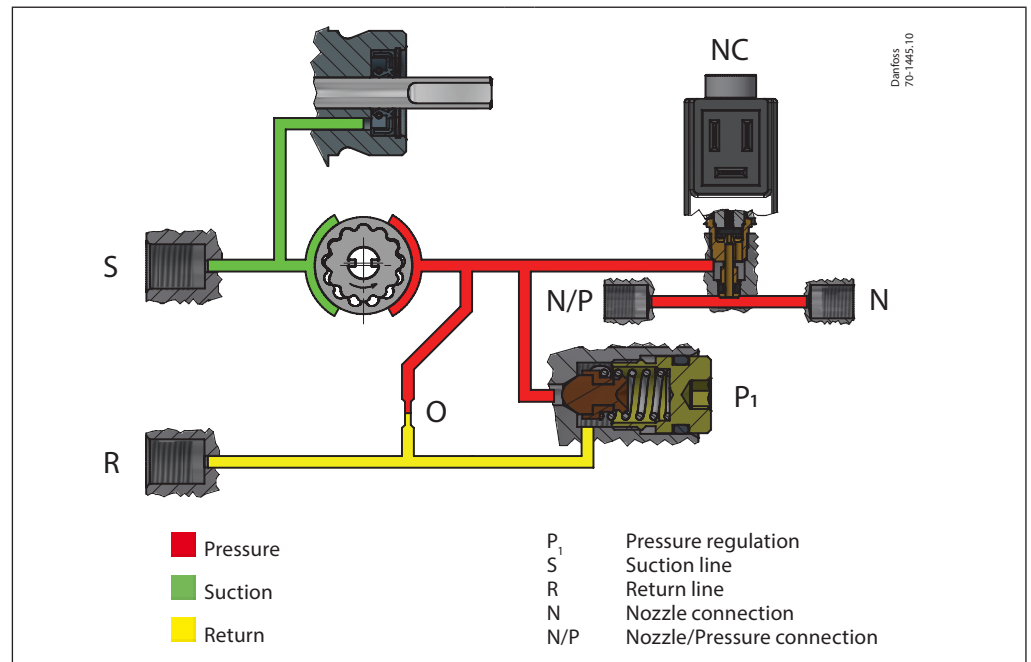
The size and weight of the pump make it particularly suitable where space is restricted.

All components are designed to provide a long service life with constantly high efficiency and durability.

## Features

- Light oil, kerosene and biofuel blends hereof
- 2 pipe operation
- 1-stage
- Built-in pressure regulator
- Solenoid valve cut-off
- Shaft with Ø6 mm & Ø8 mm
- Bio compatible pressure and solenoid valve (Bio100 - version)

## Function



## Functionality

From the suction inlet (S), fluid is drawn to the gear set where the pressure is increased. When voltage is applied to the NC valve (normally closed) it opens and releases fluid to the nozzle outlet.

The pressure is kept constant at the value set by the adjustment screw (P1). In a 2-pipe system the excess fluid is led back to the return outlet (R) and the tank.

When the burner stops the voltage to the NC valve is cut off and the fluid flow to the nozzle outlet is cut off immediately.

The pressure regulating valve (P1) functions in the following manner:

*When the fluid opening pressure has been reached, flow to the return side is established.*

*The cone and spring maintain a constant pump pressure as set by the regulating valve.*

## Filtration

Proper pre-filtration (max. mesh size w=0,15) is crucial for the performance, the maintenance, and the warranty of the pump.

## Bleeding

In 2-pipe systems the pump is self-priming, i.e. bleeding is performed via the constriction (O) to the return outlet (R).

## Warranty

For pumps used outside the stated technical data and used with fuel containing abrasive particles Danfoss cannot give any warranty.

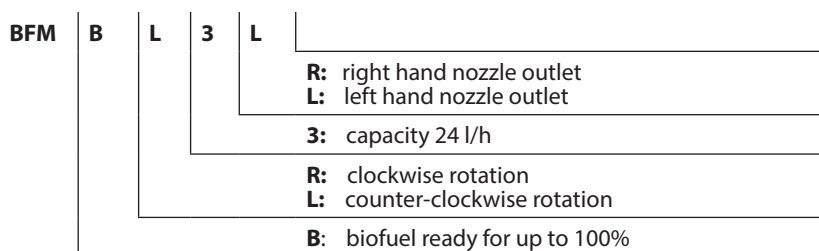
## Note!

*Do not mount the pump with the solenoid valve pointing downwards.*

*The solenoid valve must be replaced after 250.000 operations or 10 years (approved life expectancy).*

*By changing the materials of the components within our pumps, in relation to the different types of fuels - we ensure all product components are 100% bio compatible.*

Identification

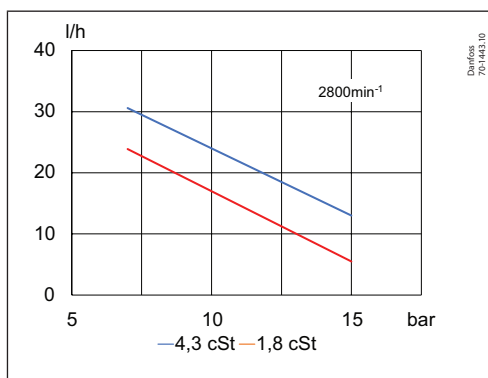


Nozzle capacity at 4.3 cSt, 10 bar, 2800 min<sup>-1</sup>

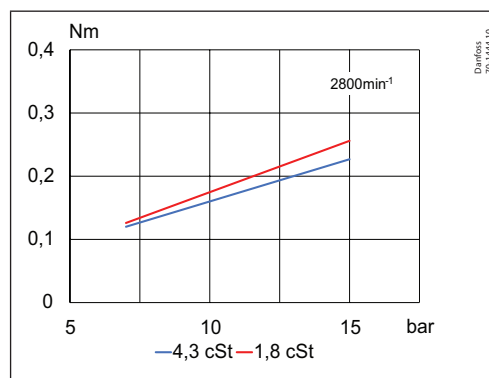
Technical data

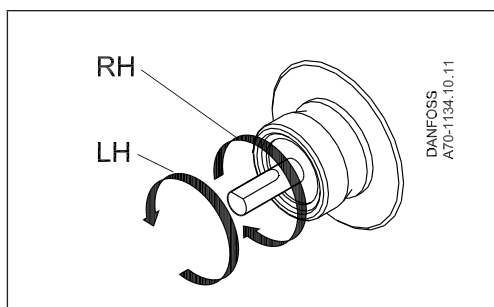
Type		<b>BFM - Burner Fuel Mobile Pump</b>
Fuel types		Standard fuel according to DIN EN 51603-1 and biofuel according to DIN EN 51603-6;-8 and EN14214
Oil viscosity measured in suction port	cSt	1,8-12,0
Max. starting torque	Nm	0,12
Pressure range	bar	7-15
Factory setting	bar	10 ±1
Max. permissible pressure in suction/return line	bar	2
Speed	min <sup>-1</sup>	2400-3450
Ambient and transport temperature	°C	-20 - +70
Media temperature	°C	0 - +70°
Coil rated voltage	V	12 VDC 24 VDC 24 VAC 110/120 V 50/60 Hz 220/230 V 50/60 Hz
Coil power consumption	W	9
Coil grade of enclosure		IP 40
Shaft/neck		EN 225 - Ø8 or Ø6
Connection		2-pipe operation
Cable		To be ordered separately
Rotation		Left or right

Nozzle capacity



Operating torque



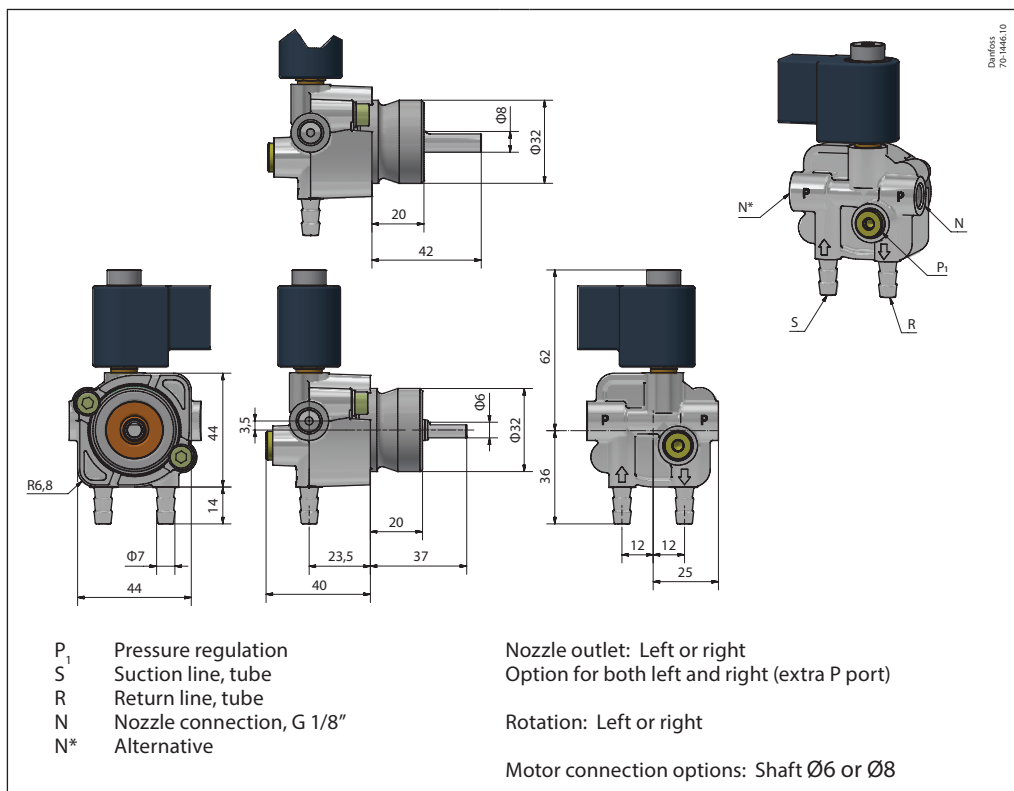


Note! Shaft rotation, location of nozzle outlet and other connections are seen from shaft end.

**RH:** R-rotation

**LH:** L-rotation

Dimensions





Additional documentation on burner components is available on <http://danfoss.com/>

**Danfoss A/S**

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