



Pumps

BFPM 20

Description

The BFPM range is a series of Danfoss oil pumps in combination with a highly efficient permanent magnet motor. The BFPM Electronic Controller must be used for controlling BFPM motor pumps (see separate data sheet for BFPM Electronic Controller). BFPM is designed for small domestic oil burners up to 24 l/h.

Features & Benefits

- Light oil and kerosene
- 1- or 2-pipe operation
- 1-stage
- Built-in pressure regulator
- Cartridge filter

Applications

- Small domestic oil burners up to 24 l/h.

Ordering

Product code numbers

Product Type	Nozzle/pressure outlet	ROTATION	1 or 2 stage	Capacity [l/h]	Biofuel blend	Code number
BFPM 20	L	L	1	24.00	10	071N4111

Identification

Example:
BFPM **L 3 L 05**

BFPM	
L	left hand nozzle outlet
3	capacity 24 l/h
L	left hand rotation
0	without solenoid valve
5	cartridge filter, pressure adjustment on front

Nozzle capacity at 4.3 cSt., 10 bar, 2800 min⁻¹

Accessories code numbers

If your product code is not listed as a related product for any accessories, please reach out to us for assistance.



071N4208

MOTOR CABLE, MP

MOTOR CABLE, MP

Related products

071N4118



071N4211

MOTOR CABLE BFPM (255MM)

MOTOR CABLE BFPM (255MM)

Related products

071N4118



071N4055

COMPLETE CONTROL FOR BFPM

COMPLETE CONTROL FOR BFPM

Related products

071N4118



071N4206

TRANSDUCER SIGNALCABLE MP

TRANSDUCER SIGNALCABLE MP

Related products

071N4118



071N4203

SIGNALCABLE

SIGNALCABLE

Related products

071N4118



071N4210

TRANSDUCER CABLE

TRANSDUCER CABLE

Related products

071N4118



071N4053

COMPLETE CONTROL FOR BFPM

COMPLETE CONTROL FOR BFPM

Related products

071N4118



071N4202

POWER CABLE BFPM WITHOUT FERRITE)

POWER CABLE BFPM WITHOUT
FERRITE)

Related products

071N4118



071N4054

COMPLETE CONTROL FOR BFPM

COMPLETE CONTROL FOR BFPM

Related products

071N4118



071N4052

COMPLETE CONTROL FOR BFPM VISSMANN

COMPLETE CONTROL FOR BFPM VISSMANN

Related products

071N4118

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Functions

Operation

From the suction inlet (S) oil is drawn through the filter (H) to the gear set, where the pressure is increased.

By means of the diaphragm (D) in the pressure regulator (T), the pressure is kept constant at the value set on adjustment screw (P1). In 2-pipe systems the excess oil is led back to the return outlet (R) and the tank.

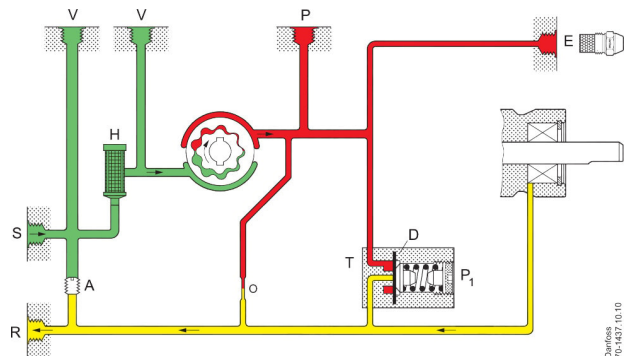
In 1-pipe systems with plugged return outlet (R) and screw (A) removed, the oil is returned internally to the gear set (see figure).

Bleeding

In 2-pipe systems the pump is self-priming, i.e. bleeding is performed via the constriction (O) to the return outlet (R). In 1-pipe systems with plugged return outlet (R), bleeding must be performed through the nozzle outlet (E) or the pressure gauge port (P).

Warranty

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



Red = Pressure
Green = Suction
Yellow = Return

Danfoss
70-4437/10.10

Product details

General data

Oil types	Standard fuel gas oil and fuel gas oil acc. to DIN V 51603-6 EL A Bio-10 (Max. 10% FAME)
Viscosity range (measured in suction inlet)	(1.3) 1.8 to 12.0 cSt. (mm ² /s)
Filter area/mesh	11/200 cm ² /μm
Pressure range ¹⁾	7 to 20 bar
Default setting	10 ±1 bar
Max. pressure in suction inlet/return outlet	2 bar
Speed	400 - 3400 min ⁻¹
Ambient/transport temperature	-20 to +70° C
Temperature of medium	0 to +70° C
Power supply/drive BFPM motor ²⁾	230 V switched from controller

1)

Max. 12 bar at 1.3 cSt., max. 15 bar at 1.8 cSt.

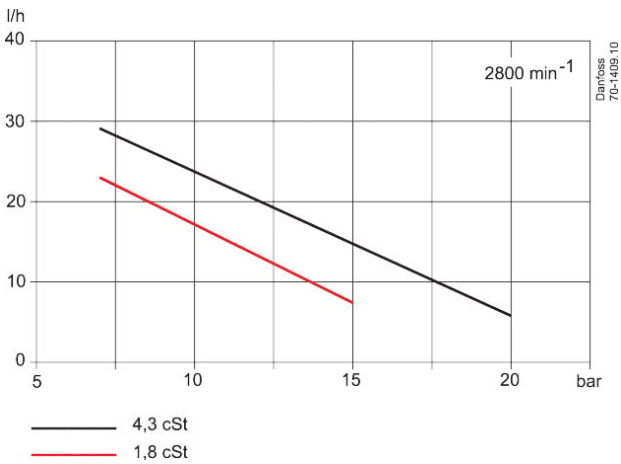
2)

Warning: Do not connect BFPM motor directly to 230 V/50 Hz power supply!

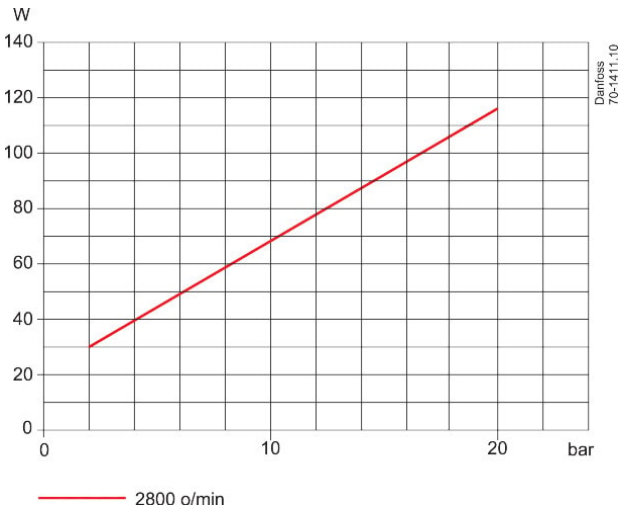


Capacity

Nozzle capacity [l/h]

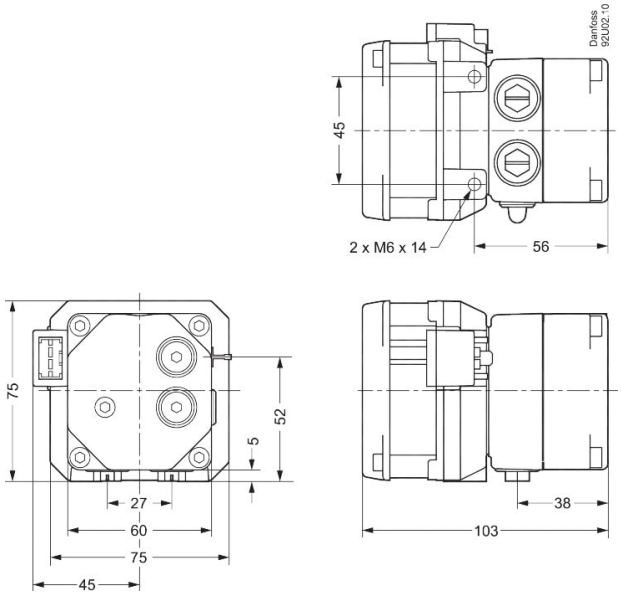


Power consumption [W]



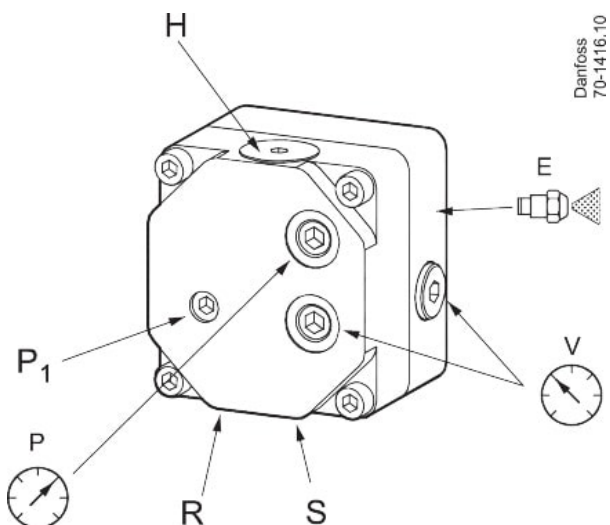
Dimensions & weights

Weight	Oil Motor Pump type BFPM 20	
	Gross weight	1.885 kg
	Net weight	1.884 kg
	Volumne	1.935 Liter



Connections

P1: Pressure limiter
 S: Suction inlet G1/4
 R: Return outlet G1/4
 E: Nozzle outlet G1/8
 P: Pressure gauge port G1/8
 V: Vacuum gauge port G1/8
 H: Filter



Warnings

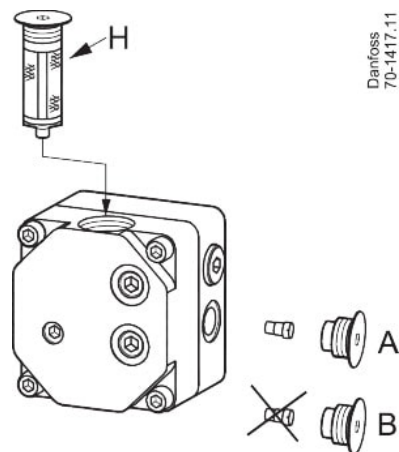
Warranty

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Service

Change-over and filter replacement

H: Filter
 A: 2-pipe operation, with screw
 B: 1-pipe operation, without screw



Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
EU-UK Declaration	Danfoss EU-UK 071NPM.06	Danfoss	EMC
Manufacturer's Declaration	Danfoss MA-UK 071NPM.05	Danfoss	EU RoHS
Export Control Declaration	Oil pumps BFP/BFA/BFM	Danfoss	

Contact details

Online support

Danfoss offers a wide range of support along with our products, including digital information, software, mobile apps and expert guidance. See the possibilities below.



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