

Data sheet

Oil Pump Type RSA Size 28, 40, 60, 95, 125

Application

RSA oil pumps are designed for small/medium sized domestic and commercial oil burners up to 255 l/h.

The pumps have a built-in pressure regulator with shut-off function.

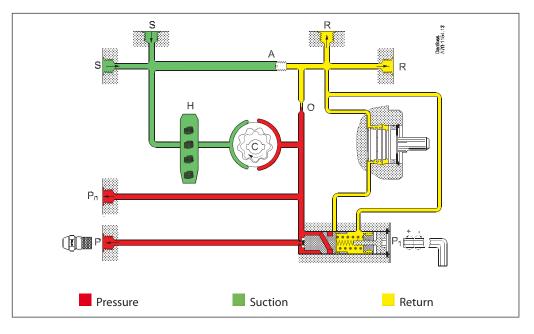
A special regulation spring is available for feed/ transfer applications.

Features

- Light oil and Kerosene
- 1 or 2-pipe operation
- 1-stage

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- Built-in pressure regulator with shut-off
- **Ring filter**
- Spec. spring available for feed/transfer applications



From the suction inlet (S) oil is drawn through the gear set, where the pressure is increased. By means of the piston and the spring in the pressure regulator 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). In 1-pipe systems with plugged return outlet (R) and removed by-pass screw (A), the oil is returned internally to the gear set (see figure).

When the pump is stopped the pressure drops and the spring force in the pressure regulator will move the piston until it seats and the oil flow is shut off effectively.

Bleeding

In 2-pipe systems the pumps are 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) and by-pass screw (A) removed, bleeding must be performed through the pressure gauge port (Pn). In 1-pipe systems with underlying tank, the closing function of the regulating valve must be rendered inoperative. This is made by connecting the nozzle line to the pressure gauge port (Pn) and plug the pressure port (P). In this application a cut-off valve must be installed in the nozzle line.

Warranty

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

Function

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RSA 60

Identification

Example:

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

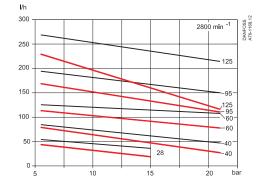
Technical data

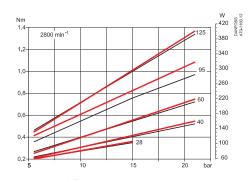
RSA	28	40	60	95	125
Oil types	Kerosene, standard fuel gas oil and bio fuels				
Viscosity range (measured in suction inlet)	1.3 - 75 cSt. (mm²/s)				
Filter area / mesh	75 cm² / 150 μm			170 cm² / 150 μm	
Pressure range, stage	5.5-15 bar 5.5-21 bar				
Factory setting	7 ±1 bar			10 ±1 bar	
Max. pressure in suction inlet/return outlet	4 bar				
Speed	2400-3450 min ⁻¹	$1400-3450 \text{ mm}^{-1}$			
Max. starting torque	0.20 Nm	0.22 Nm	0.24 Nm	0.30 Nm	0.35 Nm
Ambient temperature	–20 to +120 °C				
Storage temperature	–25 to +120 °C				
Temperature of medium	–10 to +120 °C				
Neck / Flange	EN 225				

Nozzle capacity

Operating torque

Power consumption





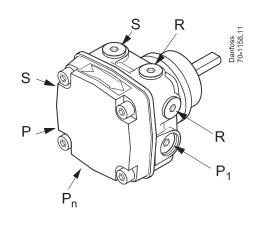
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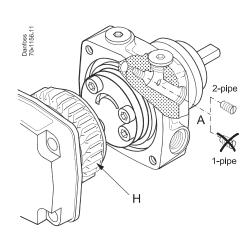
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Connections



- **P**₁: Pressure adjustment
- Suction inlet G1/4
- R: Return outlet G1/4
- P: Pressure outlet G1/8 (G1/4 for RSA 125)
- P_n: Pressure gauge port G 1/8
- H: Filter

Change-over and Filter Replacement



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

Dimensions

