

hp-Single-pumping unit Series MOG 1900

Fuel oil pressure unit with integrated bypass oil air separation for single-pipe oil supply for automatic oil burners to TRD 411 or TRD 604 and DIN 4755 sheet 2. Design "A" for supply pressure to max. 5 bar.

General Specifications:

Medium: Fuel oil EL to DIN 51603
Viscosity: at 20 °C: max. 6 cST
Max. pressure on shaft seal of pump: max. 5 bar on vacuum gauge (4)

The pump units are equipped with **standard motors, flange size B3/B14 or B3/B5**, 230/400 V, 50 Hz, 1400 RPM/, IP 55. Y-Δ-circuit with power supply must be specified with order. **From 4 kW the motors are executed for 400/690 V, 50 Hz.** Other voltage and frequencies can be supplied on request.



Scope of supply:

1. Ball valve
2. Filter
4. Vacuum gauge with gauge valve
5. Vessel with manual ventilation
6. hp-Motor pump group consisting of:
hp-Internal gear pump with integrated overflow valve and bypass connection, pump connector, coupling and standard motor
7. Pressure gauge with gauge valve
11. Double ball valve for P + R
14. Complete assembled on an oil pan

Accessories:

May be selected according to the requirements of the table on page 79.

Functional description: Design according to Scheme A (with supply pressure on T connection)

The pump (6) is supplied with oil via ball valve (1), filter (2), manometer (4), vessel (5) in single-pipe system, i.e. only the oil consumed by the burner flows here.

For manual ventilation, the supply pressure must be at least 1 and max. 5 bar. For automatic float air vent (accessories 17) the supply pressure must be max. 5 bar. A higher supply pressure must be reduced with pressure-regulator (accessories 18). Further accessories are adapters for oil meters (15), oil meter (16), solenoid valve (20), leakage detector (19) and filter indicator (21 + 22).

The pump (6) increases the supply pressure to the operating pressure that can be set on the overflow valve, that the pressure gauge (7) displays and supplies the pressurised oil to the burner via the ball valve (11). Return oil coming from the burner is fed back via the ball valve (11) to the vessel (5) and therefore the pump (6). If there is no oil consumption, the entire oil supplied by the pump is controlled via the overflow valve to the vessel (5) and therefore the inlet side of the pump (6).

Remark:

Accessories "M": Lifter effect is excluded by a tank situated higher up in the supply pipe.

Accessories "L": Leakage detector, e.g. when the shaft seal of the pump presents a leak.

Unit model	Used pump model	Item No.	Operating pressure p_{max} in bar	Discharge at 1400 RPM		Motor power ¹⁾ kW	Vessel capacity in litres	Pipe connections* DIN flange including screws + seal		
				at 0 - 9 bar	at p_{max}			DIN 2633 T	DIN 2635 P	DIN 2633 R
MOG 1945 - A	VBGRP	0620101	40	300	200	0.75	5	DN 15	DN 15	DN 15
MOG 1946 - A	VBGRM	0620105	40	450	360	1.1	5	DN 15	DN 15	DN 15
MOG 1947 - A	VBGRG	0620109	40	600	480	1.5	5	DN 15	DN 15	DN 15
MOG 1948 - A	VBHRP	0620113	40	1000	600	2.2	5	DN 20	DN 20	DN 20
MOG 1949 - A	VBHRM	0620117	40	1500	1000	3	5	DN 20	DN 20	DN 20
MOG 1950 - A	VBHRG	0620121	40	2000	1400	4	5	DN 25	DN 25	DN 25
MOG 1951 - FL-A	VBHGRP	0620125	40	3000	2000	5.5	5	DN 32	DN 32	DN 32
MOG 1951-1-FL-A	VBHGRPZ	0620136	40	3700	2700	5.5	5.5	DN 32	DN 32	DN 32
MOG 1952 - FL-A	VBHGRM	0620129	40	4500	3200	7.5	5	DN 40	DN 40	DN 40
MOG 1953 - FL-A	VBHGRG	0620132	30	6000	4800	7.5	5	DN 40	DN 40	DN 40

* To ensure the pump is working properly, the pipes must be scaled according to the principles of fluid dynamics by calculation of line according to the local requirements. The pump or device connection gives no indication of the relevant size of the pipe.