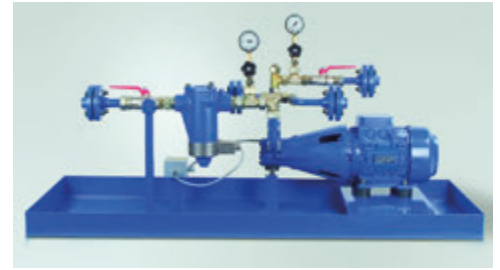


## hp-Single-pumping unit Series MOG

hp-Single pumping unit is screwed-on or flanged design as feed or pressure modules for oil supply to TRD 411 or TRD 604 and DIN 4755-2 must be constructed, tested, registered and labelled to test standard DIN EN 12514-1. For fuel oil supply diagram, see page 101.



### General specifications:

**Viscosity range:** Motor capacities of the units are designed for:  
 - Viscosities up to 80 cSt. for units for fuel oil EL, L  
 - Viscosities up to 150 cSt. for units for fuel oil M, S + ES  
 Please ask for any differing conditions.

**max. permitted underpressure:** Measured on the vacuum gauge item 3  $\leq -0.6$  bar

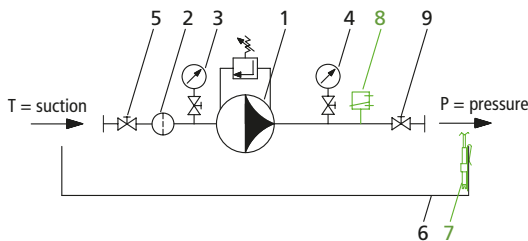
**max. system pressure:** 5 bar

### Order text:

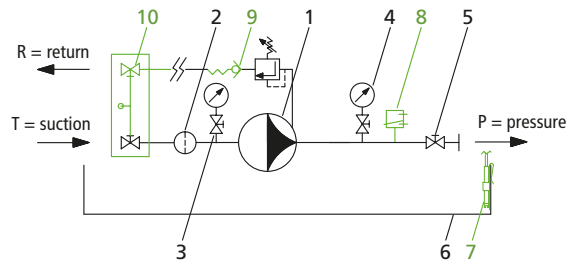
hp-Single pumping unit

Series MOG: see model key  
 Discharge/pressure: ... l/h, max. pressure in bar  
 Medium: ...  
 Operating pressure: ... bar  
 Motor: ... kW ... V, 50/60 Hz  
 Accessories: see model key

Scheme I for MOG 50, MOG 51, MOG 53 and MOG 55 series (without bypass line)



Scheme II for MOG 52 and MOG 54 series (with bypass line)



### Scope of supply:

- 1 hp-Motor pump group
- 2 Single filter
- 3 Vacuum gauge
- 4 Pressure gauge
- 5 Ball valve
- 6 Oil pan

### Optional accessories:

- 7 Leakage detector LH
- 8 Electrical pressure switch or pressure transmitter S / DT
- 9 Nonreturn valve (only for Scheme II), not used for selection of accessories 10 RV
- 10 Double ball valve (only for Scheme II) DK

## Model key for determining order specifications

MOG	Series size	Size	Accessories*
	50 = Feed pump aggregate <b>9 bar and 6 bar</b> , <sup>1)</sup> fuel oil EL + L, kerosene	Discharge see data tables	FL = flanged design  A = Filter and pump with electrical auxiliary heating with connection box E1 = With optical filter indicator E2 = With optical and electrical filter indicator LH = Oil pan equipped with leakage detection RV = Nonreturn valve, only for scheme II DK = Double ball valve, only with MOG 52 and MOG 54 S') = With electrical pressure switch for monitoring the pressure line (pipe burst check) DT = Pressure transmitter
	51 = Feed pump aggregate <b>9 bar</b> , fuel oil M, S + ES, mineral tar oil		
	52 = Pressure aggregate <b>30 bar</b> , fuel oil EL + L + kerosene		
	53 = Pressure aggregate <b>30 bar</b> , fuel oil M, S, + ES		
	54 = Pressure aggregate <b>40 bar</b> , fuel oil EL + L		
	55 = Pressure aggregate <b>40 bar</b> , fuel oil M, S + ES		
	Other designs on request		

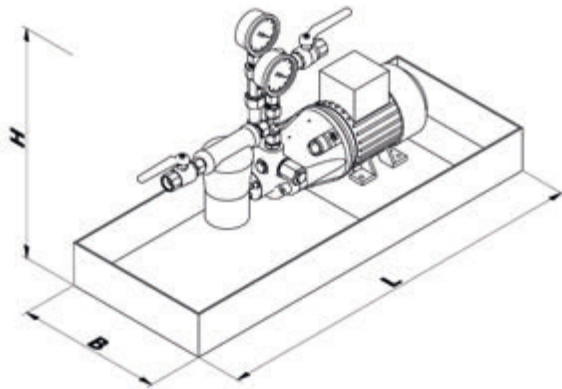
**Item no. for accessories:** For "RV" and "DK" accessories, see data table. For "A" filter + pump with electrical auxiliary heating, see data table. Accessories E1, E2, L and S see page 96.

\* List key letters one after the other

<sup>1)</sup> When used as feed pump aggregate for fuel oil supply to DIN 4736, the max. operating pressure of 6 bar must not be exceeded.

**Note:** In the place where it is fitted, as a "lower limiter" an electrical pressure monitor must be provided as a pipe break check. This condition is met by selecting the "S" accessory.

## hp-Single-pumping unit Series MOG



### Feed pump aggregate according to Scheme I without bypass connection for fuel oil EL, L - max. pressure 9 bar

Unit model	Device connections		Discharge at 1400 RPM at 0 - 9 bar	used		Item No.		Unit dimensions L x B [mm]	max. pressure [bar]
	screw-fitted	flanged		Pump model	Motor power [kW]	screw-fitted design	flanged design		
MOG 5001	Pipe Ø 12	-	45	VB P	0.18	0510101	-	700x270	designed for max. pressure of 9 bar
MOG 5002	Pipe Ø 12	-	80	VB M	0.18	0510102	-	700x270	
MOG 5003	Pipe Ø 12	-	120	VB G	0.18	0510103	-	700x270	
MOG 5004	Pipe Ø 12	-	160	VB F	0.18	0510104	-	700x270	
MOG 5005	Pipe Ø 18	DN 15	300	VBG P	0.18	0510105	0510205	840x270	
MOG 5006	Pipe Ø 18	DN 15	450	VBG M	0.37	0510106	0510206	840x270	
MOG 5007	Pipe Ø 18	DN 15	600	VBG G	0.37	0510107	0510207	840x270	
MOG 5008	Pipe Ø 22	DN 25	1000	VBH P	0.75	0510108	0510208	1050x360	
MOG 5009	Pipe Ø 22	DN 25	1500	VBH M	0.75	0510109	0510209	1050x360	
MOG 5010	Pipe Ø 22	DN 25	2000	VBH G	1.1	0510110	0510210	1050x360	
MOG 5011	-	DN 32	3000	VBHG P	1.5	-	0510211	1400x500	to DIN EN 12514-1 max. working pressure of 6 bar.
MOG 5011-1	-	DN 32	3700	VBHG PZ	1.5	-	0510214	1400x500	
MOG 5012	-	DN 32	4500	VBHG M	2.2	-	0510212	1400x500	
MOG 5013	-	DN 40	6000	VBHG G	3.0	-	0510213	1400x500	

### Feed pump aggregate according to Scheme I without bypass connection for fuel oil M, S + ES - max. pressure 9 bar

Unit model	Device connections		Discharge at 1400 RPM at 0 - 9 bar	used		Item No.		Unit dimensions L x B [mm]	Stationary and auxiliary heating accessory "A"	max. pressure [bar]
	screw-fitted	flanged		Pump model	Motor power [kW]	screw-fitted design	flanged design			
MOG 5101	Pipe Ø 12	-	45	VB P	0.18	0510114	-	700x270	When used for fuel oil S + ES urgently recommended.	designed for max. pressure of 9 bar
MOG 5102	Pipe Ø 12	-	80	VB M	0.18	0510115	-	700x270		
MOG 5103	Pipe Ø 12	-	120	VB G	0.18	0510116	-	700x270		
MOG 5104	Pipe Ø 12	-	160	VB F	0.18	0510117	-	700x270		
MOG 5105	Pipe Ø 18	DN 15	300	VBG P	0.18	0510118	0510218	840x270		
MOG 5106	Pipe Ø 18	DN 15	450	VBG M	0.37	0510119	0510219	840x270		
MOG 5107	Pipe Ø 18	DN 15	600	VBG G	0.37	0510120	0510220	840x270		
MOG 5108	Pipe Ø 22	DN 25	1000	VBH P	0.75	0510121	0510221	1050x360		
MOG 5109	Pipe Ø 22	DN 25	1500	VBH M	0.75	0510122	0510222	1050x360		
MOG 5110	Pipe Ø 22	DN 25	2000	VBH G	1.1	0510123	0510223	1050x360		
MOG 5111	-	DN 32	3000	VBHG P	1.5	-	0510224	1400x500	See page 96	
MOG 5111-1	-	DN 32	3700	VBHG PZ	1.5	-	0510227	1400x500		
MOG 5112	-	DN 32	4500	VBHG M	2.2	-	0510225	1400x500		
MOG 5113	-	DN 40	6000	VBHG G	3.0	-	0510226	1400x500		

\* 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.

Motors used to IE 3, IP 55, 230/400 V from 4 kW 400/690 V, 50 Hz can also be used in 60 Hz operation – other voltages, frequencies and protection types on request.  
Specifications for dimensions are guidelines, we will send the actual setup diagram when the order is placed.  
Other designs or accessories (e.g. double filters, solenoid valves etc.) can be planned and provided on request.