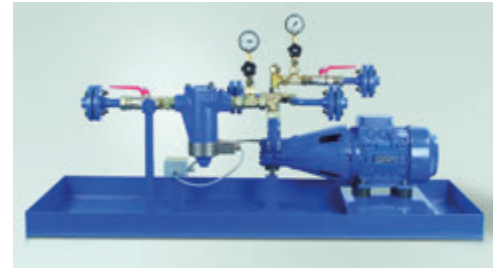


hp-Single-pumping unit Series MOG

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 ≤ -0.6 bar

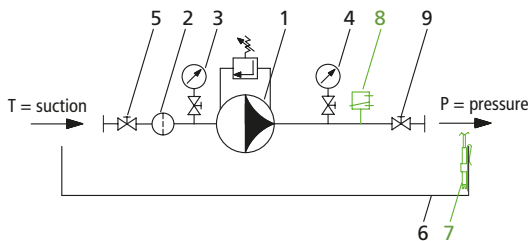
max. system pressure: 5 bar

Order text:

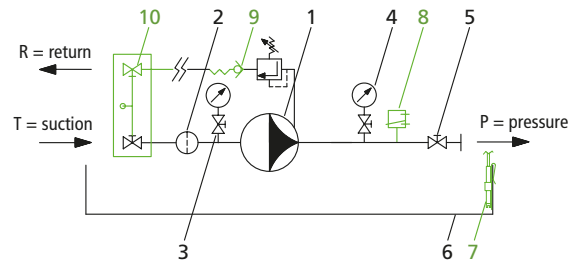
hp-Single pumping unit

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 9 bar and 6 bar , ¹⁾ 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 9 bar , fuel oil M, S + ES, mineral tar oil		
	52 = Pressure aggregate 30 bar , fuel oil EL + L + kerosene		
	53 = Pressure aggregate 30 bar , fuel oil M, S, + ES		
	54 = Pressure aggregate 40 bar , fuel oil EL + L		
	55 = Pressure aggregate 40 bar , fuel oil M, S + ES		
	Other designs on request		

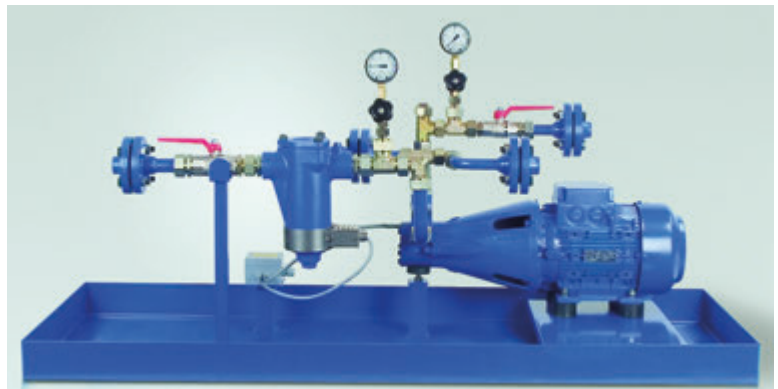
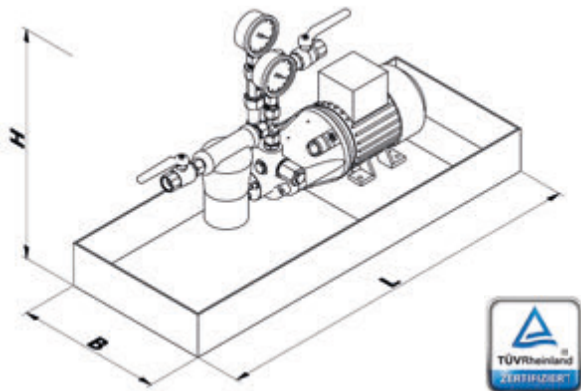
Item no. for accessories: For "RV" and "DK" accessories, see data table. For "A" filter + pump with electrical auxiliary heating, see data table. Accessories E1, E2, L and S see page 96.

* List key letters one after the other

¹⁾ 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



Pressure aggregate according to Scheme I without bypass connection for fuel oil M, S + ES - max. pressure 30 bar

Unit model	Device connections*		Discharge at 1400 RPM		used		Item No.:		Unit dimensions L x B [mm]	Stationary and auxiliary heating accessory "A"	max. pressure [bar]
	screw-fitted	flanged	at 0 - 9 bar	at p _{max}	Pump model	Motor power [kW]	screw-fitted design	flanged design			
MOG 5305	Pipe Ø 18	DN 15	300	240	VBG P	0.75	0510130	0510230	840x270	Urgently recommended when used for fuel oil S + ES	designed for max. pressure of 30 bar
MOG 5306	Pipe Ø 18	DN 15	450	390	VBG M	1.1	0510131	0510231	840x270		
MOG 5307	Pipe Ø 18	DN 15	600	540	VBG G	1.5	0510132	0510232	840x270		
MOG 5308	Pipe Ø 22	DN 25	1000	700	VBH P	2.2	0510133	0510233	1300x400		
MOG 5309	Pipe Ø 22	DN 25	1500	1200	VBH M	3.0	0510134	0510234	1300x400		
MOG 5310	Pipe Ø 22	DN 25	2000	1700	VBH G	4.0	0510135	0510235	1300x400		
MOG 5311	-	DN 32	3000	2200	VBHG P	5.5	-	0510236	1400x500		
MOG 5311-1	-	DN 32	3700	3000	VBHG PZ	5.5	-	0510239	1400x500		
MOG 5312	-	DN 32	4500	3600	VBHG M	7.5	-	0510237	1400x500		
MOG 5313	-	DN 40	6000	4800	VBHG G	7.5	-	0510238	1400x500		

Pressure aggregate according to Scheme I without bypass connection for fuel oil M, S + ES - max. pressure 40 bar

Unit model	Device connections*		Discharge at 1400 RPM		used		Item No.:		Unit dimensions L x B [mm]	Stationary and auxiliary heating accessory "A"	max. pressure [bar]
	screw-fitted	flanged	at 0 - 9 bar	at p _{max}	Pump model	Motor power [kW]	screw-fitted design	flanged design			
MOG 5505	Pipe Ø 18	DN 15	300	200	VBG P	0.75	0510140	0510240	840x270	When used for fuel oil S + ES urgently recommended.	designed for max. pressure of 40 bar
MOG 5506	Pipe Ø 18	DN 15	450	360	VBG M	1.5	0510141	0510241	840x270		
MOG 5507	Pipe Ø 18	DN 15	600	480	VBG G	2.2	0510142	0510242	840x270		
MOG 5508	Pipe Ø 22	DN 25	1000	600	VBH P	3.0	0510143	0510243	1300x400		
MOG 5509	Pipe Ø 22	DN 25	1500	1000	VBH M	4.0	0510144	0510244	1300x400		
MOG 5510	Pipe Ø 22	DN 25	2000	1400	VBH G	5.5	0510145	0510245	1300x400		
MOG 5511	-	DN 32	3000	2000	VBHG P	7.5	-	0510246	1400x500		
MOG 5511-1	-	DN 32	3700	2700	VBHG PZ	7.5	-	0510248	1400x500		
MOG 5512	-	DN 32	4500	3200	VBHG M	7.5	-	0510247	1400x500		

Item no. for accessories

A	=	Filter and pump with electrical auxiliary heating and connection box		
E1	=	with optical filter indicator		0820221
E2	=	with optical and electrical filter indicator		0820222
LH	=	Oil pan fitted with leakage detector, without electrical wiring		0720705 -1
S	=	with attached electrical pressure switch for monitoring pressure line (Pipe break check) without electrical wiring	Model FF4 Model DSB	0820290 0820292
DT	=	Pressure transmitter		0720695

* 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.