

hp-Motor pumps; series SMG

3.0

Horizontal single system with hp industrial pumps with axial face seal able to handle pressures up to 5 bar and max. 150 °C. Easy to operate. Very safe. Exceptionally quiet. High suction capacity and operating life.

When used as supply aggregate for fuel oil feed as per DIN 4736, the max operating pressure may not exceed 6 bar²⁾.

When used: as discharge or supply unit; designed for pressures of up to 9 bar. as pressure or spray unit; designed for pressures of up to 30 bar. for higher pressures; designed for pressures of up to 40 bar.

- The pump groups are equipped with three-phase standard motors B3/B14 or B3/B5, 400 V, 50 Hz, 1400 min⁻¹, protection standard IP 54, Isolation class F. **From 4 kW, the motors are threaded for 400/690 V, 50 Hz. Y-Δ-circuit with power supply must be indicated when ordering.**
- Other voltages and frequencies are available at a surcharge upon request.
- Mounting position: horizontal, with the connections facing upwards.



These motor pump groups can be equipped with all pumps of the approved hp-Industrial pump programme.

Key for determination of the order numbers:

e.g.: **SMG . . .** — ● — ● — ● ●

Series size	Direction of rotation ¹⁾ viewed from pump shaft	Pressure stage bar	Special production and accessories (add code letters consecutively)
e. g. SMG 1507 See selection chart on the following sites...	I = counterclockwise, standard model D = clockwise on request	0 = 0,5 - 1,5 1 = 1 - 4 2 = 2 - 9 3 = 6 - 25 4 = 15 - 40	H1 = Electric heating with heating cartridge, see tables for heating capacity. (See pump accessories page 16.) Wa = With oil pan and anti-vibration pads for mounting on the wall. (See accessories page 38.) LH = Oil pan equipped with leak detection S²⁾ = With electric pressure switch for pressure line monitoring. (Pipe-burst check.) DT = Pressure transmitter

Max. permissible vacuum pressure at pump connection A -0.6 bar. Warning, gas discharge starts at -0.4 bar

Ordering example: hp motor pump group series size SMG 1568 with hp industrial pump type VBHP-I with integrated overflow valve; direction of rotation viewed from pump shaft: I = counterclockwise; flow rate: 700 l/h at 1400 min⁻¹ and 25 bar; operating pressure: 25 bar; pressure range: 15 to 25 bar; max. pressure: 25 bar; medium: fuel oil S; viscosity: 6 cSt. at 140 °C; motor output: 1,5 kW, voltage 230/400V, 50Hz, isolation class B; protection standard: IP 54; accessories: axial face seal Viton V, electric heating H1.

Order-Nr.: SMG 1568 - I - 3 - H1

For assembly, start-up and maintenance, please adhere to the instruction manual that comes with each device!

hp-Motor pump groups; SMG series

3.1

Series B; without overflow valve

Single systems with 1400 min⁻¹ and hp industrial pumps.

Suitable for use with hydraulic oils, lubricating oils, all fuel oils, coal and lignite tar oils, kerosene and many other self-lubricating fluids. The motor output data applies for fluids with a viscosity of up to 80 cSt. From 80 to 150 cSt, the motor must be one power stage stronger. Available at a surcharge upon request.

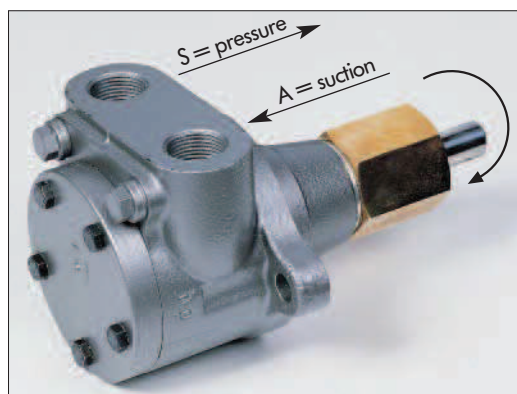
The pump connections are indicated as follows:

A = suction connection S = delivery connection



The standard models of the pumps are designed with a counterclockwise direction of rotation (viewed from the pump shaft).

The position of the pump connections is independent of the direction of rotation. (See illustration.)



Direction of rotation I = counterclockwise, standard model

For clockwise rotation, D, the oil connections A = suction and S = delivery are interchanged.

Series size	Pump type	Discharge at 1400 min ⁻¹		Motor output	Connections 1) *	H1 Heater Watt	Gear rotor/shaft	Article-no.	
		at 0 - 9 bar	at 30 bar						
SMG 1501	BP	45 l/h	-	0,18 kW	G 3/8"	100	25/12	0350001	p _{max} 9 bar
SMG 1502	BM	80 l/h	-	0,18 kW	G 3/8"	100	25/12	0350002	
SMG 1503	BG	120 l/h	-	0,18 kW	G 3/8"	100	25/12	0350003	
SMG 1504	BF	160 l/h	-	0,18 kW	G 3/8"	100	25/12	0350004	
SMG 1505	BGP	300 l/h	-	0,18 kW	G 1/2"	100	38/12	0350005	
SMG 1506	BGM	450 l/h	-	0,37 kW	G 1/2"	100	38/12	0350006	
SMG 1507	BGG	600 l/h	-	0,37 kW	G 1/2"	100	38/12	0350007	
SMG 1508	BHP	1000 l/h	-	0,75 kW	G 3/4"	160	56/18	0350008	
SMG 1509	BHM	1500 l/h	-	0,75 kW	G 3/4"	160	56/18	0350009	
SMG 1510	BHG	2000 l/h	-	1,1 kW	G 3/4"	160	56/18	0350010	
SMG 1511	BHGP	3000 l/h	-	1,5 kW	G 1 1/2"	280	75/22	0350011	
SMG 1512	BHGM	4500 l/h	-	2,2 kW	G 1 1/2"	280	75/22	0350012	
SMG 1513	BHGG	6000 l/h	-	3,0 kW	G 1 1/2"	280	75/22	0350013	
SMG 1521	BP	45 l/h	30 l/h	0,18 kW	G 3/8"	100	25/12	0350014	p _{max} 30 bar
SMG 1522	BM	80 l/h	60 l/h	0,18 kW	G 3/8"	100	25/12	0350015	
SMG 1523	BG	120 l/h	100 l/h	0,18 kW	G 3/8"	100	25/12	0350016	
SMG 1524	BF	160 l/h	140 l/h	0,37 kW	G 3/8"	100	25/12	0350017	
SMG 1525	BGP	300 l/h	240 l/h	0,37 kW	G 1/2"	100	38/12	0350018	
SMG 1526	BGM	450 l/h	390 l/h	0,75 kW	G 1/2"	100	38/12	0350019	
SMG 1527	BGG	600 l/h	540 l/h	0,75 kW	G 1/2"	100	38/12	0350020	
SMG 1528	BHP	1000 l/h	700 l/h	1,5 kW	G 3/4"	160	56/18	0350021	
SMG 1529	BHM	1500 l/h	1200 l/h	2,2 kW	G 3/4"	160	56/18	0350022	
SMG 1530	BHG	2000 l/h	1700 l/h	3,0 kW	G 3/4"	160	56/18	0350023	
SMG 1531	BHGP	3000 l/h	2200 l/h	4,0 kW	G 1 1/2"	280	75/22	0350024	
SMG 1532	BHGM	4500 l/h	3600 l/h	5,5 kW	G 1 1/2"	280	75/22	0350025	
SMG 1533	BHGG	6000 l/h	4800 l/h	7,5 kW	G 1 1/2"	280	75/22	0350026	

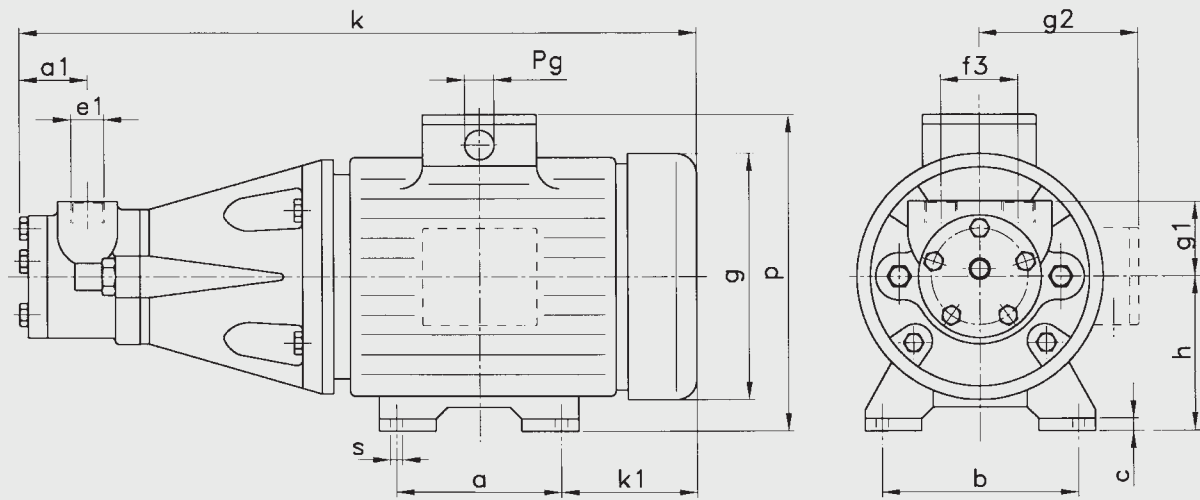
Series size	Pump type	Discharge at 1400 min ⁻¹		Motor output	Connections 1) *	H1 Heater Watt	Gear rotor/shaft	Article-no.	
		at 0 bar	at 40 bar						
SMG 1902	BM	80 l/h	50 l/h	0,18 kW	G 3/8"	100	25/12	0390001	p _{max} 40 bar
SMG 1903	BG	120 l/h	80 l/h	0,37 kW	G 3/8"	100	25/12	0390002	
SMG 1904	BF	160 l/h	120 l/h	0,37 kW	G 3/8"	100	25/12	0390003	
SMG 1905	BGP	300 l/h	200 l/h	0,75 kW	G 1/2"	100	38/12	0390004	
SMG 1906	BGM	450 l/h	360 l/h	1,1 kW	G 1/2"	100	38/12	0390005	
SMG 1907	BGG	600 l/h	480 l/h	1,5 kW	G 1/2"	100	38/12	0390006	
SMG 1908	BHP	1000 l/h	600 l/h	2,2 kW	G 3/4"	160	56/18	0390007	
SMG 1909	BHM	1500 l/h	1000 l/h	3,0 kW	G 3/4"	160	56/18	0390008	
SMG 1910	BHG	2000 l/h	1400 l/h	4,0 kW	G 3/4"	160	56/18	0390009	
SMG 1911	BHGP	3000 l/h	2000 l/h	5,5 kW	G 1 1/2"	280	75/22	0390010	
SMG 1912	BHGM	4500 l/h	3200 l/h	7,5 kW	G 1 1/2"	280	75/22	0390011	

1) Cyl. Withworth Pipe Threading; G...A DIN ISO 228

* To insure proper pump functioning, all pipe connections must be sized as per the principles of fluid technology using the phase quantity and in accordance with the given conditions at the installation site! The size of the pump and/or device connections is not indicative of the size of the pipe connection which must be used.

Series B; without overflow valve

3.1



Series size	Pump type	Dis-charge	Motor output	Dimensions															
				a	a1	b	c	e1	f3	g	g1	g2	h	k	k1	p	s	Pg	
SMG 1501	BP	45 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	43	-	63	348	63	163	7	11	
SMG 1502	BM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	43	-	63	348	63	163	7	11	
SMG 1503	BG	120 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	43	-	63	348	63	163	7	11	
SMG 1504	BF	160 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	43	-	63	348	63	163	7	11	
SMG 1505	BGP	300 l/h	0,18 kW	80	36	100	7	G 1/2"	44	124	43	-	63	362	63	163	7	11	
SMG 1506	BGM	450 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	43	-	71	390	69	180	7	11	
SMG 1507	BGG	600 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	43	-	71	390	69	180	7	11	
SMG 1508	BHP	1000 l/h	0,75 kW	100	49	125	8	G 3/4"	67	157	65	-	80	496	77	197	9,5	11	
SMG 1509	BHM	1500 l/h	0,75 kW	100	49	125	8	G 3/4"	67	157	65	-	80	496	77	197	9,5	11	
SMG 1510	BHG	2000 l/h	1,1 kW	100	49	140	13	G 3/4"	67	181	65	137	90	531	92	214	11	13,5	
SMG 1511	BHGP	3000 l/h	1,5 kW	125	65	140	13	G 1 1/2"	100	181	90	137	90	617	95	214	11	13,5	
SMG 1512	BHGM	4500 l/h	2,2 kW	140	65	160	14	G 1 1/2"	100	202	90	150	100	657	103	235	13	16	
SMG 1513	BHGG	6000 l/h	3,0 kW	140	65	160	14	G 1 1/2"	100	202	90	150	100	657	103	235	13	16	
SMG 1521	BP	45 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	43	-	63	348	63	163	7	11	
SMG 1522	BM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	43	-	63	348	63	163	7	11	
SMG 1523	BG	120 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	43	-	63	348	63	163	7	11	
SMG 1524	BF	160 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	43	-	71	376	69	180	7	11	
SMG 1525	BGP	300 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	43	-	71	390	69	180	7	11	
SMG 1526	BGM	450 l/h	0,75 kW	100	43	125	8	G 1/2"	44	157	43	-	80	423	77	197	9,5	11	
SMG 1527	BGG	600 l/h	0,75 kW	100	43	125	8	G 1/2"	44	157	43	-	80	423	77	197	9,5	11	
SMG 1528	BHP	1000 l/h	1,5 kW	125	49	140	13	G 3/4"	67	181	65	137	90	531	92	214	11	13,5	
SMG 1529	BHM	1500 l/h	2,2 kW	140	49	160	14	G 3/4"	67	202	65	150	100	595	110	235	13	16	
SMG 1530	BHG	2000 l/h	3,0 kW	140	49	160	14	G 3/4"	67	202	65	150	100	595	110	235	13	16	
SMG 1531	BHGP	3000 l/h	4,0 kW	140	65	190	15	G 1 1/2"	100	227	90	150	112	679	118	269	13	16	
SMG 1532	BHGM	4500 l/h	5,5 kW	140	65	216	17	G 1 1/2"	100	267	90	183	132	740	140	308	13	21	
SMG 1533	BHGG	6000 l/h	7,5 kW	140	65	216	17	G 1 1/2"	100	267	90	183	132	740	140	308	13	21	
SMG 1902	BM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	43	-	63	348	63	163	7	11	
SMG 1903	BG	120 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	43	-	71	376	69	180	7	11	
SMG 1904	BF	160 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	43	-	71	376	69	180	7	11	
SMG 1905	BGP	300 l/h	0,75 kW	100	43	125	8	G 1/2"	44	157	43	-	80	423	77	197	9,5	11	
SMG 1906	BGM	450 l/h	1,1 kW	100	43	140	13	G 1/2"	44	181	43	-	90	440	92	214	11	13,5	
SMG 1907	BGG	600 l/h	1,5 kW	125	43	140	13	G 1/2"	44	181	43	-	90	440	92	214	11	13,5	
SMG 1908	BHP	1000 l/h	2,2 kW	140	49	160	14	G 3/4"	67	202	65	150	100	595	110	235	13	16	
SMG 1909	BHM	1500 l/h	3,0 kW	140	49	160	14	G 3/4"	67	202	65	150	100	595	110	235	13	16	
SMG 1910	BHG	2000 l/h	4,0 kW	140	49	190	15	G 3/4"	67	227	65	163	112	617	118	269	13	16	
SMG 1911	BHGP	3000 l/h	5,5 kW	140	65	216	17	G 1 1/2"	100	267	90	189	132	740	140	308	13	21	
SMG 1912	BHGM	4500 l/h	7,5 kW	178	65	216	17	G 1 1/2"	100	267	90	189	132	740	140	308	13	21	

hp-Motor pump group; SMG series

3.2

Series VB with integrated overflow valve

Single systems with 1400 min⁻¹ and hp industrial pumps.

Standard model:

A system up to 9 bar: **Pressure stage 2 = 2 to 9 bar. Limited to a max. pressure of 6 bar as per DIN 4736.** System up to 30 or 40 bar: **Pressure stage 4 = 15 to 40 bar.** Suitable for use with hydraulic oils, lubricating oils, all fuel oils, coal and lignite tar oils, kerosene and many other self-lubricating fluids. The motor output data applies for fluids with a viscosity of up to 80 cSt. From 80 to 150 cSt, the motor must be one power stage size stronger. Available at a surcharge upon request.



The pump connections are indicated as follows:

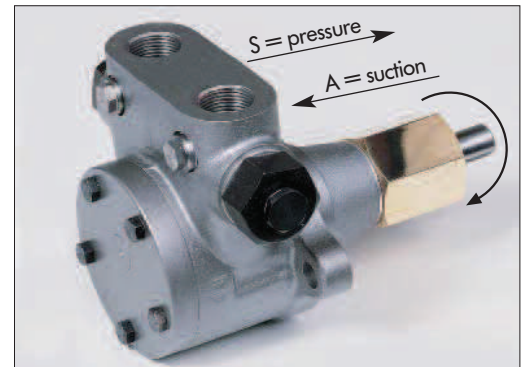
A = suction connection S = delivery connection

The standard models of the pumps are designed with a counterclockwise direction of rotation (viewed from the pump shaft).

The position of the pump connections is independent of the direction of rotation. (See illustration.)

Direction of rotation I = counterclockwise, standard model

For clockwise rotation, D, the oil connections A = suction and S = delivery are interchanged



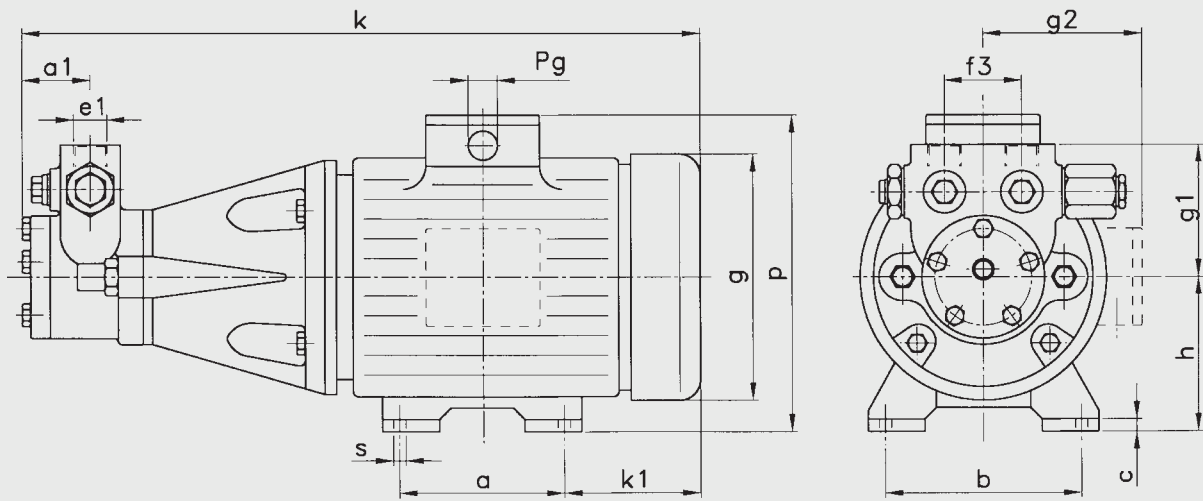
Series size	Pump type	Discharge at 1400 min ⁻¹		Motor output	Connections*	H1 Heater Watt	Gear rotor/shaft	Article-no.	
		at 0 - 9 bar	at 30 bar						
SMG 1541	VBP	45 l/h	-	0,18 kW	G 3/8"	100	25/12	0350027	p _{max} 9 bar
SMG 1542	VBM	80 l/h	-	0,18 kW	G 3/8"	100	25/12	0350028	
SMG 1543	VBG	120 l/h	-	0,18 kW	G 3/8"	100	25/12	0350029	
SMG 1544	VBF	160 l/h	-	0,18 kW	G 3/8"	100	25/12	0350030	
SMG 1545	VBGP	300 l/h	-	0,18 kW	G 1/2"	100	38/12	0350031	
SMG 1546	VBGM	450 l/h	-	0,37 kW	G 1/2"	100	38/12	0350032	
SMG 1547	VBGG	600 l/h	-	0,37 kW	G 1/2"	100	38/12	0350033	
SMG 1548	VBHP	1000 l/h	-	0,75 kW	G 3/4"	160	56/18	0350034	
SMG 1549	VBHM	1500 l/h	-	0,75 kW	G 3/4"	160	56/18	0350035	
SMG 1550	VBHG	2000 l/h	-	1,1 kW	G 3/4"	160	56/18	0350036	
SMG 1551	VBHGP	3000 l/h	-	1,5 kW	G 1"	280	75/22	0350037	
SMG 1552	VBHGM	4500 l/h	-	2,2 kW	G 1"	280	75/22	0350038	
SMG 1553	VBHGG	6000 l/h	-	3,0 kW	G 1"	280	75/22	0350039	
SMG 1561	VBP	45 l/h	30 l/h	0,18 kW	G 3/8"	100	25/12	0350040	
SMG 1562	VBM	80 l/h	60 l/h	0,18 kW	G 3/8"	100	25/12	0350041	
SMG 1563	VBG	120 l/h	100 l/h	0,18 kW	G 3/8"	100	25/12	0350042	
SMG 1564	VBF	160 l/h	140 l/h	0,37 kW	G 3/8"	100	25/12	0350043	
SMG 1565	VBGP	300 l/h	240 l/h	0,37 kW	G 1/2"	100	38/12	0350044	
SMG 1566	VBGM	450 l/h	390 l/h	0,75 kW	G 1/2"	100	38/12	0350045	
SMG 1567	VBGG	600 l/h	540 l/h	0,75 kW	G 1/2"	100	38/12	0350046	
SMG 1568	VBHP	1000 l/h	700 l/h	1,5 kW	G 3/4"	160	56/18	0350047	
SMG 1569	VBHM	1500 l/h	1200 l/h	2,2 kW	G 3/4"	160	56/18	0350048	
SMG 1570	VBHG	2000 l/h	1700 l/h	3,0 kW	G 3/4"	160	56/18	0350049	
SMG 1571	VBHGP	3000 l/h	2200 l/h	4,0 kW	G 1"	280	75/22	0350050	
SMG 1572	VBHGM	4500 l/h	3600 l/h	5,5 kW	G 1"	280	75/22	0350051	
SMG 1573	VBHGG	6000 l/h	4800 l/h	7,5 kW	G 1"	280	75/22	0350052	

Series size	Pump type	Discharge at 1400 min ⁻¹		Motor output	connections*	H1 Heater Watt	Gear rotor/shaft	Article-no.	
		at 0 bar	at 40 bar						
SMG 1922	VBM	80 l/h	50 l/h	0,18 kW	G 3/8"	100	25/12	0390023	p _{max} 40 bar
SMG 1923	VBG	120 l/h	80 l/h	0,37 kW	G 3/8"	100	25/12	0390024	
SMG 1924	VBF	160 l/h	120 l/h	0,37 kW	G 3/8"	100	25/12	0390025	
SMG 1925	VBGP	300 l/h	200 l/h	0,75 kW	G 1/2"	100	38/12	0390026	
SMG 1926	VBGM	450 l/h	360 l/h	1,1 kW	G 1/2"	100	38/12	0390027	
SMG 1927	VBGG	600 l/h	480 l/h	1,5 kW	G 1/2"	100	38/12	0390028	
SMG 1928	VBHP	1000 l/h	600 l/h	2,2 kW	G 3/4"	160	56/18	0390029	
SMG 1929	VBHM	1500 l/h	1000 l/h	3,0 kW	G 3/4"	160	56/18	0390030	
SMG 1930	VBHG	2000 l/h	1400 l/h	4,0 kW	G 3/4"	160	56/18	0390031	
SMG 1931	VBHGP	3000 l/h	2000 l/h	5,5 kW	G 1"	280	75/22	0390032	
SMG 1932	VBHGM	4500 l/h	3200 l/h	7,5 kW	G 1"	280	75/22	0390033	

* To insure proper pump functioning, all pipe connections must be sized as per the principles of fluid technology using the phase quantity and in accordance with the given conditions at the installation site!
The size of the pump and/or device connections is not indicative of the size of the pipe connection which must be used.

Series VB; With integrated overflow valve

3.2



Series size	Pump type	Dis-charge	Motor-output	Dimensions															
				a	a1	b	c	e1	f3	g	g1	g2	h	k	k1	p	s	Pg	
SMG 1541	VBP	45 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	67	-	63	348	63	163	7	11	
SMG 1542	VBM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	67	-	63	348	63	163	7	11	
SMG 1543	VBG	120 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	67	-	63	348	63	163	7	11	
SMG 1544	VBF	160 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	67	-	63	348	63	163	7	11	
SMG 1545	VGBP	300 l/h	0,18 kW	80	43	100	7	G 1/2"	44	124	75	-	63	362	63	163	7	11	
SMG 1546	VBGM	450 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	75	-	71	390	69	180	7	11	
SMG 1547	VBGG	600 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	75	-	71	390	69	180	7	11	
SMG 1548	VBHP	1000 l/h	0,75 kW	100	49	125	8	G 3/4"	67	157	90	-	80	496	77	197	9,5	11	
SMG 1549	VBHM	1500 l/h	0,75 kW	100	49	125	8	G 3/4"	67	157	90	-	80	496	77	197	9,5	11	
SMG 1550	VBHG	2000 l/h	1,1 kW	100	49	140	13	G 3/4"	67	181	90	137	90	531	92	214	11	13,5	
SMG 1551	VBHGP	3000 l/h	1,5 kW	125	65	140	13	G 1"	80	181	120	137	90	617	95	214	11	13,5	
SMG 1552	VBHGM	4500 l/h	2,2 kW	140	65	160	14	G 1"	80	202	120	150	100	657	103	235	13	16	
SMG 1553	VBHGG	6000 l/h	3,0 kW	140	65	160	14	G 1"	80	202	120	150	100	657	103	235	13	16	
SMG 1561	VBP	45 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	67	-	63	348	63	163	7	11	
SMG 1562	VBM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	67	-	63	348	63	163	7	11	
SMG 1563	VBG	120 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	67	-	63	348	63	163	7	11	
SMG 1564	VBF	160 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1565	VGBP	300 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	75	-	71	390	69	180	7	11	
SMG 1566	VBGM	450 l/h	0,75 kW	100	43	125	8	G 1/2"	44	157	75	-	80	423	77	197	9,5	11	
SMG 1567	VBGG	600 l/h	0,75 kW	100	43	125	8	G 1/2"	44	157	75	-	80	423	77	197	9,5	11	
SMG 1568	VBHP	1000 l/h	1,5 kW	125	49	140	13	G 3/4"	67	181	90	137	90	531	92	214	11	13,5	
SMG 1569	VBHM	1500 l/h	2,2 kW	140	49	160	14	G 3/4"	67	202	80	150	100	595	110	235	13	16	
SMG 1570	VBHG	2000 l/h	3,0 kW	140	49	160	14	G 3/4"	67	202	90	150	100	595	110	235	13	16	
SMG 1571	VBHGP	3000 l/h	4,0 kW	140	65	190	15	G 1"	80	227	120	150	112	679	118	269	13	16	
SMG 1572	VBHGM	4500 l/h	5,5 kW	140	65	216	17	G 1"	80	267	120	183	132	740	140	308	13	21	
SMG 1573	VBHGG	6000 l/h	7,5 kW	140	65	216	17	G 1"	80	267	120	183	132	740	140	308	13	21	
SMG 1922	VBM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	67	-	63	348	63	163	7	11	
SMG 1923	VBG	120 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1924	VBF	160 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1925	VGBP	300 l/h	0,75 kW	100	43	125	8	G 1/2"	44	157	75	-	80	423	77	197	9,5	11	
SMG 1926	VBGM	450 l/h	1,1 kW	100	43	140	13	G 1/2"	44	181	75	-	90	440	92	214	11	13,5	
SMG 1927	VBGG	600 l/h	1,5 kW	125	43	140	13	G 1/2"	44	181	75	-	90	440	92	214	11	13,5	
SMG 1928	VBHP	1000 l/h	2,2 kW	140	49	160	14	G 3/4"	67	202	90	150	100	595	110	235	13	16	
SMG 1929	VBHM	1500 l/h	3,0 kW	140	49	160	14	G 3/4"	67	202	90	150	100	595	110	235	13	16	
SMG 1930	VBHG	2000 l/h	4,0 kW	140	49	190	15	G 3/4"	67	227	90	163	112	617	118	269	13	16	
SMG 1931	VBHGP	3000 l/h	5,5 kW	140	65	216	17	G 1"	80	267	120	189	132	740	140	308	13	21	
SMG 1932	VBHGM	4500 l/h	7,5 kW	178	65	216	17	G 1"	80	267	120	189	132	740	140	308	13	21	

hp-Motor pump group; SMG series

3.3

Series VBR with integrated overflow valve and bypass

Single system with 1400 min⁻¹ and hp industrial pumps

Standard model:

System up to 9 bar: **Pressure stage 2 = 2 to 9 bar.**

Limited to a max. pressure of 6 bar as per DIN 4736.

System up to 30 or 40 bar: **Pressure stage 4 = 15 to 40 bar.**



The pump connections are indicated as follows:

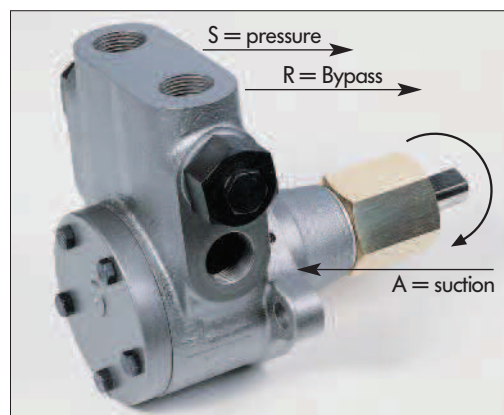
A = suction connection **S** = delivery connection **R** = bypass connection

The standard models of the pumps are designed with a counterclockwise direction of rotation (viewed from the pump shaft). The position of the pump connections is independent of the direction of rotation. (See illustration.)

Direction of rotation I = counterclockwise, standard model

For clockwise rotation, D, the oil connections S = delivery and R = bypass are interchanged.

The suction connection A = suction is found on the other side.



Series size	Pump type	Discharge at 1400 min ⁻¹		Motor-output	Connections*	H1 Heater Watt	Gear rotor/shaft	Article-no.	
		at 0 - 9 bar	at 30 bar						
SMG 1601	VBRP	45 l/h	-	0,18 kW	G 3/8"	100	25/12	0360001	p _{max} 9 bar
SMG 1602	VBRM	80 l/h	-	0,18 kW	G 3/8"	100	25/12	0360002	
SMG 1603	VBRG	120 l/h	-	0,18 kW	G 3/8"	100	25/12	0360003	
SMG 1604	VBRF	160 l/h	-	0,18 kW	G 3/8"	100	25/12	0360004	
SMG 1605	VBGRP	300 l/h	-	0,18 kW	G 1/2"	100	38/12	0360005	
SMG 1606	VBGRM	450 l/h	-	0,37 kW	G 1/2"	100	38/12	0360006	
SMG 1607	VBGRG	600 l/h	-	0,37 kW	G 1/2"	100	38/12	0360007	
SMG 1608	VBHRP	1000 l/h	-	0,75 kW	G 3/4"	160	56/18	0360008	
SMG 1609	VBHRM	1500 l/h	-	0,75 kW	G 3/4"	160	56/18	0360009	
SMG 1610	VBHRG	2000 l/h	-	1,1 kW	G 3/4"	160	56/18	0360010	
SMG 1611	VBHGRP	3000 l/h	-	1,5 kW	G 1" ¹⁾	280	75/22	0360011	
SMG 1612	VBHGRM	4500 l/h	-	2,2 kW	G 1" ¹⁾	280	75/22	0360012	
SMG 1613	VBHGRG	6000 l/h	-	3,0 kW	G 1" ¹⁾	280	75/22	0360013	
SMG 1621	VBRP	45 l/h	30 l/h	0,18 kW	G 3/8"	100	25/12	0360014	p _{max} 30 bar
SMG 1622	VBRM	80 l/h	60 l/h	0,18 kW	G 3/8"	100	25/12	0360015	
SMG 1623	VBRG	120 l/h	100 l/h	0,18 kW	G 3/8"	100	25/12	0360016	
SMG 1624	VBRF	160 l/h	140 l/h	0,37 kW	G 3/8"	100	25/12	0360017	
SMG 1625	VBGRP	300 l/h	240 l/h	0,37 kW	G 1/2"	100	38/12	0360018	
SMG 1626	VBGRM	450 l/h	390 l/h	0,75 kW	G 1/2"	100	38/12	0360019	
SMG 1627	VBGRG	600 l/h	540 l/h	0,75 kW	G 1/2"	100	38/12	0360020	
SMG 1628	VBHRP	1000 l/h	700 l/h	1,5 kW	G 3/4"	160	56/18	0360021	
SMG 1629	VBHRM	1500 l/h	1200 l/h	2,2 kW	G 3/4"	160	56/18	0360022	
SMG 1630	VBHRG	2000 l/h	1700 l/h	3,0 kW	G 3/4"	160	56/18	0360023	
SMG 1631	VBHGRP	3000 l/h	2200 l/h	4,0 kW	G 1" ¹⁾	280	75/22	0360024	
SMG 1632	VBHGRM	4500 l/h	3600 l/h	5,5 kW	G 1" ¹⁾	280	75/22	0360025	
SMG 1633	VBHGRG	6000 l/h	4800 l/h	7,5 kW	G 1" ¹⁾	280	75/22	0360026	

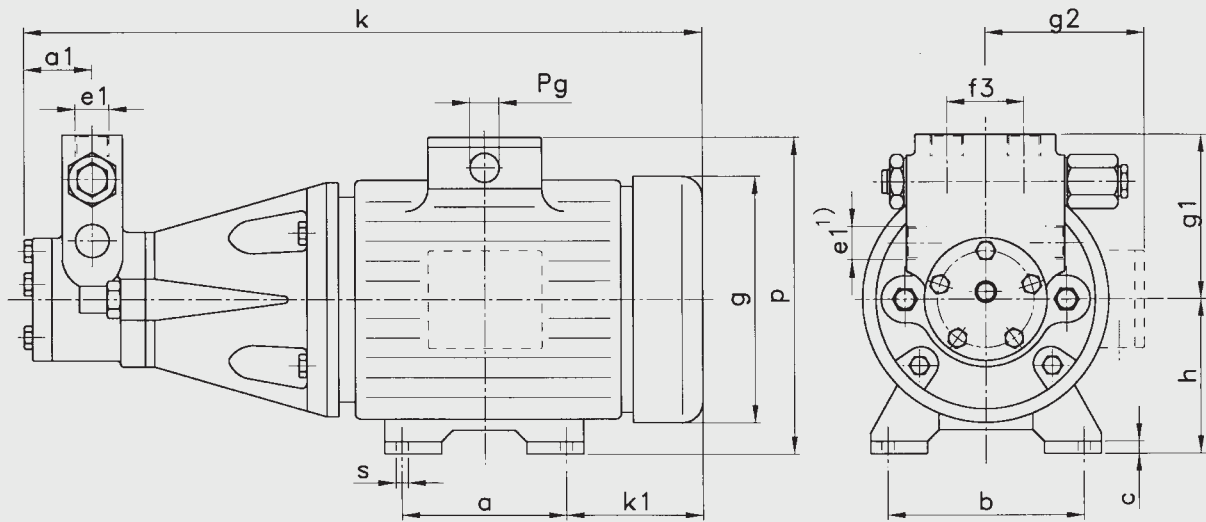
Series size	Pump type	Discharge at 1400 min ⁻¹		Motor-output	Connections ^{1) *}	H1 Heater Watt	Gear rotor/shaft	Article-no.	
		at 0 bar	at 40 bar						
SMG 1942	VBRM	80 l/h	50 l/h	0,18 kW	G 3/8"	100	25/12	0390045	p _{max} 40 bar
SMG 1943	VBRG	120 l/h	80 l/h	0,37 kW	G 3/8"	100	25/12	0390046	
SMG 1944	VBRF	160 l/h	120 l/h	0,37 kW	G 3/8"	100	25/12	0390047	
SMG 1945	VBGRP	300 l/h	200 l/h	0,75 kW	G 1/2"	100	38/12	0390048	
SMG 1946	VBGRM	450 l/h	360 l/h	1,1 kW	G 1/2"	100	38/12	0390049	
SMG 1947	VBGRG	600 l/h	480 l/h	1,5 kW	G 1/2"	100	38/12	0390050	
SMG 1948	VBHRP	1000 l/h	600 l/h	2,2 kW	G 3/4"	160	56/18	0390051	
SMG 1949	VBHRM	1500 l/h	1000 l/h	3,0 kW	G 3/4"	160	56/18	0390052	
SMG 1950	VBHRG	2000 l/h	1400 l/h	4,0 kW	G 3/4"	160	56/18	0390053	
SMG 1951	VBHGRP	3000 l/h	2000 l/h	5,5 kW	G 1" ¹⁾	280	75/22	0390054	
SMG 1952	VBHGRM	4500 l/h	3200 l/h	7,5 kW	G 1" ¹⁾	280	75/22	0390055	

¹⁾ The suction connection on the side is A = G 1 1/2" on SMG 1611 - SMG 1631, SMG 1631 - 1630, SMG 1951 - 1952.

* To insure proper pump functioning, all pipe connections must be sized as per the principles of fluid technology using the phase quantity and in accordance with the given conditions at the installation site! The size of the pump and/or device connections is not indicative of the size of the pipe connection which must be used.

Series VBR; with integrated overflow valves and bypass

3.3



Series size	Pump type	Dis-charge	Motor output	Dimensions															
				a	a1	b	c	e1	f3	g	g1	g2	h	k	k1	p	s	Pg	
SMG 1601	VBRRP	45 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	90	-	63	348	63	163	7	11	
SMG 1602	VBRRM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	90	-	63	348	63	163	7	11	
SMG 1603	VBRG	120 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	90	-	63	348	63	163	7	11	
SMG 1604	VBRF	160 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	90	-	63	348	63	163	7	11	
SMG 1605	VBGRP	300 l/h	0,18 kW	80	43	100	7	G 1/2"	44	124	94	-	63	362	63	163	7	11	
SMG 1606	VBGRM	450 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	94	-	71	390	69	180	7	11	
SMG 1607	VBGRG	600 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	94	-	71	390	69	180	7	11	
SMG 1608	VBHRP	1000 l/h	0,75 kW	100	49	125	8	G 3/4"	67	157	115	-	80	496	77	197	9,5	11	
SMG 1609	VBHRM	1500 l/h	0,75 kW	100	49	125	8	G 3/4"	67	157	115	-	80	496	77	197	9,5	11	
SMG 1610	VBHRG	2000 l/h	1,1 kW	100	49	140	13	G 3/4"	67	181	115	137	90	531	92	214	11	13,5	
SMG 1611	VBHGRP	3000 l/h	1,5 kW	125	65	140	13	G 1" ¹⁾	80	181	120	137	90	617	95	214	11	13,5	
SMG 1612	VBHGRM	4500 l/h	2,2 kW	140	65	160	14	G 1" ¹⁾	80	202	120	150	100	657	103	235	13	16	
SMG 1613	VBHGRG	6000 l/h	3,0 kW	140	65	160	14	G 1" ¹⁾	80	202	120	150	100	657	103	235	13	16	
SMG 1621	VBRRP	45 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	90	-	63	348	63	163	7	11	
SMG 1622	VBRRM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	90	-	63	348	63	163	7	11	
SMG 1623	VBRG	120 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	90	-	63	348	63	163	7	11	
SMG 1624	VBRF	160 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	90	-	71	376	69	180	7	11	
SMG 1625	VBGRP	300 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	94	-	71	390	69	180	7	11	
SMG 1626	VBGRM	450 l/h	0,75 kW	100	43	125	8	G 1/2"	44	157	94	-	80	423	77	197	9,5	11	
SMG 1627	VBGRG	600 l/h	0,75 kW	100	43	125	8	G 1/2"	44	157	94	-	80	423	77	197	9,5	11	
SMG 1628	VBHRP	1000 l/h	1,5 kW	125	49	140	13	G 3/4"	67	181	115	137	90	531	92	214	11	13,5	
SMG 1629	VBHRM	1500 l/h	2,2 kW	140	49	160	14	G 3/4"	67	202	115	150	100	595	110	235	13	16	
SMG 1630	VBHRG	2000 l/h	3,0 kW	140	49	160	14	G 3/4"	67	202	115	150	100	595	110	235	13	16	
SMG 1631	VBHGRP	3000 l/h	4,0 kW	140	65	190	15	G 1" ¹⁾	80	227	120	150	112	679	118	269	13	16	
SMG 1632	VBHGRM	4500 l/h	5,5 kW	140	65	216	17	G 1" ¹⁾	80	267	120	183	132	740	140	308	13	21	
SMG 1633	VBHGRG	6000 l/h	7,5 kW	140	65	216	17	G 1" ¹⁾	80	267	120	183	132	740	140	308	13	21	
SMG 1942	VBRRM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	38	124	90	-	63	348	63	163	7	11	
SMG 1943	VBRG	120 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	90	-	71	376	69	180	7	11	
SMG 1944	VBRF	160 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	90	-	71	376	69	180	7	11	
SMG 1945	VBGRP	300 l/h	0,75 kW	100	43	125	8	G 1/2"	44	157	94	-	80	423	77	197	9,5	11	
SMG 1946	VBGRM	450 l/h	1,1 kW	100	43	140	13	G 1/2"	44	181	94	-	90	440	92	214	11	13,5	
SMG 1947	VBGRG	600 l/h	1,5 kW	125	43	140	13	G 1/2"	44	181	94	-	90	440	92	214	11	13,5	
SMG 1948	VBHRP	1000 l/h	2,2 kW	140	49	160	14	G 3/4"	67	202	115	150	100	595	110	235	13	16	
SMG 1949	VBHRM	1500 l/h	3,0 kW	140	49	160	14	G 3/4"	67	202	115	150	100	595	110	235	13	16	
SMG 1950	VBHRG	2000 l/h	4,0 kW	140	49	190	15	G 3/4"	67	227	115	163	112	617	118	269	13	16	
SMG 1951	VBHGRP	3000 l/h	5,5 kW	140	65	216	17	G 1" ¹⁾	80	267	120	189	132	740	140	308	13	21	
SMG 1952	VBHGRM	4500 l/h	7,5 kW	178	65	216	17	G 1" ¹⁾	80	267	120	189	132	740	140	308	13	21	

1) For SMG 1611 - 1613, SMG 1631 - 1633, SMG 1951 - 1952 the suction connection is A = G 1 1/2"

hp-Motor pump group; SMG series

3.4

Series NV with integrated overflow valve and bypass

Single systems 1400 min⁻¹ and hp industrial pumps.

Standard model:

System up to 9 bar: **Pressure stage 2 = 2 to 9 bar.**

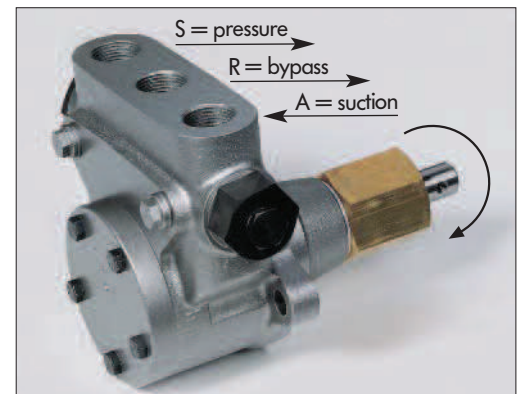
Limited as per DIN 4736 to 6 bar.

System up to 30 or 40 bar: **Pressure stage 4 = 15 to 40 bar.**

Suitable for use with hydraulic oils, lubricating oils, all fuel oils, coal and lignite tar oils, kerosene and many other self-lubricating fluids. The motor output data applies for fluids with a viscosity of up to 80 cSt. From 80 to 150 cSt, the motor must be one power stage size stronger. Available at a surcharge upon request.

The pump connections are indicated as follows:

A = suction connection S = delivery connection R = bypass connection



The standard model of the pumps is designed with a counterclockwise direction of rotation (viewed from the pump shaft).

The position of the pump connections is independent of the direction of rotation. (See illustration.)

Direction of rotation I = counterclockwise, standard model

For clockwise rotation, D, the connections A = suction and S = delivery are interchanged.

The middle connection remains unchanged.

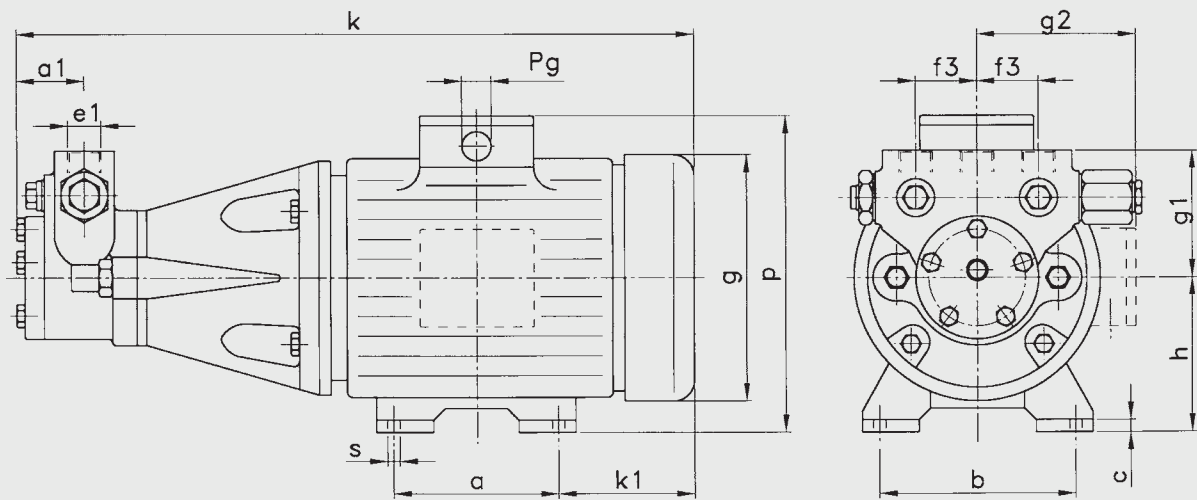
Series size	Pump type	Discharge at 1400 min ⁻¹		Motor output	Connections 1) *	H1 Heater Watt	Gear rotor/shaft	Article-no.	
		at 0 - 9 bar	at 30 bar						
SMG 1701	NVBRP	45 l/h	-	0,18 kW	G 3/8"	100	25/12	0370001	p _{max} 9 bar
SMG 1702	NVBRM	80 l/h	-	0,18 kW	G 3/8"	100	25/12	0370002	
SMG 1703	NVBRG	120 l/h	-	0,18 kW	G 3/8"	100	25/12	0370003	
SMG 1704	NVBRF	160 l/h	-	0,18 kW	G 3/8"	100	25/12	0370004	
SMG 1705	NVBGRP	300 l/h	-	0,18 kW	G 1/2"	100	38/12	0370005	
SMG 1706	NVBGRM	450 l/h	-	0,37 kW	G 1/2"	100	38/12	0370006	
SMG 1707	NVBGRG	600 l/h	-	0,37 kW	G 1/2"	100	38/12	0370007	
SMG 1708	NVBHRP	1000 l/h	-	0,75 kW	G 3/4"	160	56/18	0370008	p _{max} 30 bar
SMG 1709	NVBHRM	1500 l/h	-	0,75 kW	G 3/4"	160	56/18	0370009	
SMG 1710	NVBHRG	2000 l/h	-	1,1 kW	G 3/4"	160	56/18	0370010	
SMG 1721	NVBRP	45 l/h	30 l/h	0,18 kW	G 3/8"	100	25/12	0370011	
SMG 1722	NVBRM	80 l/h	60 l/h	0,18 kW	G 3/8"	100	25/12	0370012	
SMG 1723	NVBRG	120 l/h	100 l/h	0,18 kW	G 3/8"	100	25/12	0370013	
SMG 1724	NVBRF	160 l/h	140 l/h	0,37 kW	G 3/8"	100	25/12	0370014	
SMG 1725	NVBGRP	300 l/h	240 l/h	0,37 kW	G 1/2"	100	38/12	0370015	
SMG 1726	NVBGRM	450 l/h	390 l/h	0,75 kW	G 1/2"	100	38/12	0370016	
SMG 1727	NVBGRG	600 l/h	540 l/h	0,75 kW	G 1/2"	100	38/12	0370017	
SMG 1728	NVBHRP	1000 l/h	700 l/h	1,5 kW	G 3/4"	160	56/18	0370018	p _{max} 40 bar
SMG 1729	NVBHRM	1500 l/h	1200 l/h	2,2 kW	G 3/4"	160	56/18	0370019	
SMG 1730	NVBHRG	2000 l/h	1700 l/h	3,0 kW	G 3/4"	160	56/18	0370020	
SMG 1962	NVBRM	80 l/h	50 l/h	0,18 kW	G 3/8"	100	25/12	0390067	
SMG 1963	NVBRG	120 l/h	80 l/h	0,37 kW	G 3/8"	100	25/12	0390068	
SMG 1964	NVBRF	160 l/h	120 l/h	0,37 kW	G 3/8"	100	25/12	0390069	
SMG 1965	NVBGRP	300 l/h	200 l/h	0,75 kW	G 1/2"	100	38/12	0390070	
SMG 1966	NVBGRM	450 l/h	360 l/h	1,1 kW	G 1/2"	100	38/12	0390071	
SMG 1967	NVBGRG	600 l/h	480 l/h	1,5 kW	G 1/2"	100	38/12	0390072	
SMG 1968	NVBHRP	1000 l/h	600 l/h	2,2 kW	G 3/4"	160	56/18	0390073	
SMG 1969	NVBHRM	1500 l/h	1000 l/h	3,0 kW	G 3/4"	160	56/18	0390074	
SMG 1970	NVBHRG	2000 l/h	1400 l/h	4,0 kW	G 3/4"	160	56/18	0390075	

1) Cyl. Withworth pipe threading: G...A DIN ISO 228

* To insure proper pump functioning, all pipe connections must be sized as per the principles of fluid technology using the phase quantity and in accordance with the given conditions at the installation site!
The size of the pump and/or device connections is not indicative of the size of the pipe connection which must be used.

Series NV; with integrated overflow valve and bypass

3.4



Series size	Pump type	Dis-charge	Motor output	Dimensions														
				a	a1	b	c	e1	f3	g	g1	g2	h	k	k1	p	s	Pg
SMG 1701	NVBRP	45 l/h	0,18 kW	80	36	100	7	G 3/8"	32,5	124	67	-	63	348	63	163	7	11
SMG 1702	NVBRM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	32,5	124	67	-	63	348	63	163	7	11
SMG 1703	NVBRG	120 l/h	0,18 kW	80	36	100	7	G 3/8"	32,5	124	67	-	63	348	63	163	7	11
SMG 1704	NVBRF	160 l/h	0,18 kW	80	36	100	7	G 3/8"	32,5	124	67	-	63	348	63	163	7	11
SMG 1705	NVBGRP	300 l/h	0,18 kW	80	43	100	7	G 1/2"	35	124	72	-	63	362	63	163	7	11
SMG 1706	NVBGRM	450 l/h	0,37 kW	90	43	112	7	G 1/2"	35	139	72	-	71	390	69	180	7	11
SMG 1707	NVBGRG	600 l/h	0,37 kW	90	43	112	7	G 1/2"	35	139	72	-	71	390	69	180	7	11
SMG 1708	NVBHRP	1000 l/h	0,75 kW	100	49	125	8	G 3/4"	50	157	105	-	80	496	77	197	9,5	11
SMG 1709	NVBHRM	1500 l/h	0,75 kW	100	49	125	8	G 3/4"	50	157	105	-	80	496	77	197	9,5	11
SMG 1710	NVBHRG	2000 l/h	1,1 kW	100	49	140	13	G 3/4"	50	181	105	137	90	531	92	214	11	13,5
SMG 1721	NVBRP	45 l/h	0,18 kW	80	36	100	7	G 3/8"	32,5	124	67	-	63	348	63	163	7	11
SMG 1722	NVBRM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	32,5	124	67	-	63	348	63	163	7	11
SMG 1723	NVBRG	120 l/h	0,18 kW	80	36	100	7	G 3/8"	32,5	124	67	-	63	348	63	163	7	11
SMG 1724	NVBRF	160 l/h	0,37 kW	90	36	112	7	G 3/8"	32,5	139	67	-	71	376	69	180	7	11
SMG 1725	NVBGRP	300 l/h	0,37 kW	90	43	112	7	G 1/2"	35	139	72	-	71	390	69	180	7	11
SMG 1726	NVBGRM	450 l/h	0,75 kW	100	43	125	8	G 1/2"	35	157	72	-	80	423	77	197	9,5	11
SMG 1727	NVBGRG	600 l/h	0,75 kW	100	43	125	8	G 1/2"	35	157	72	-	80	423	77	197	9,5	11
SMG 1728	NVBHRP	1000 l/h	1,5 kW	125	49	140	13	G 3/4"	50	181	105	137	90	531	92	214	11	13,5
SMG 1729	NVBHRM	1500 l/h	2,2 kW	140	49	160	14	G 3/4"	50	202	105	150	100	595	110	235	13	16
SMG 1730	NVBHRG	2000 l/h	3,0 kW	140	49	160	14	G 3/4"	50	202	105	150	100	595	110	235	13	16
SMG 1962	NVBRM	80 l/h	0,18 kW	80	36	100	7	G 3/8"	32,5	124	67	-	63	348	63	163	7	11
SMG 1963	NVBRG	120 l/h	0,37kW	90	36	112	7	G 3/8"	32,5	139	67	-	71	376	69	180	7	11
SMG 1964	NVBRF	160 l/h	0,37 kW	90	36	112	7	G 3/8"	32,5	139	67	-	71	376	69	180	7	11
SMG 1965	NVGRP	300 l/h	0,75 kW	100	43	125	8	G 1/2"	35	157	75	-	80	423	77	197	9,5	11
SMG 1966	NVBGRM	450 l/h	0,75 kW	100	43	125	8	G 1/2"	35	157	75	-	80	423	77	197	9,5	11
SMG 1967	NVBGRG	600 l/h	1,1 kW	100	43	140	13	G 1/2"	35	181	75	-	90	440	92	214	11	13,5
SMG 1968	NVBHRP	1000 l/h	2,2 kW	140	49	160	14	G 3/4"	50	202	105	150	100	595	110	235	13	16
SMG 1969	NVBHRM	1500 l/h	3,0 kW	140	49	160	14	G 3/4"	50	202	105	150	100	595	110	235	13	16
SMG 1970	NVBHRG	2000 l/h	4,0 kW	140	49	190	15	G 3/4"	50	227	105	163	112	617	118	269	13	16

hp-Motor pump group; SMG series

3.5

Series B without overflow valve

Single systems with 950 min⁻¹ and **hp industrial pumps**.

Suitable for use with hydraulic oils, lubricating oils, all fuel oils, coal and lignite tar oils, kerosene and many other self-lubricating fluids. The motor output data applies for fluids with a viscosity of up to 400 cSt. From 400 to 1000 cSt, the motor must be one power stage stronger. Available at a surcharge upon request.

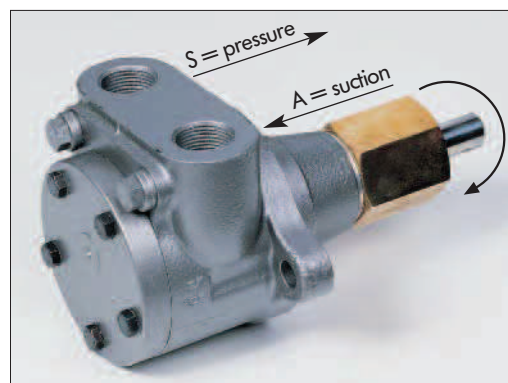
The pump connections are indicated as follows:

A = suction connection **S** = delivery connection

The standard model of the pumps is designed with a counterclockwise direction of rotation (viewed from the pump shaft). The position of the pump connections is independent of the direction of rotation. (See illustration.)

Direction of rotation I = counterclockwise, standard model

For clockwise rotation, D, the connections A = suction and S = delivery are interchanged



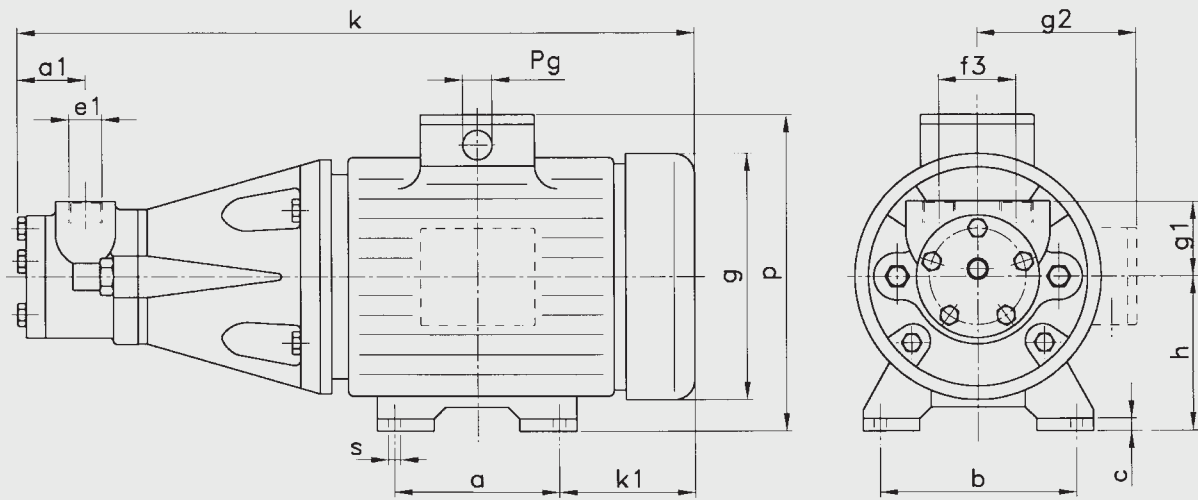
Series size	Pump type	Discharge at 950 min ⁻¹		Motor output	Connections 1) *	H1 Heater Watt	Gear rotor/shaft	Article-no.	
		at 0 - 9 bar	at 30 bar						
SMG 1801	BP	30 l/h	-	0,37 kW	G 3/8"	100	25/12	0380001	
SMG 1802	BM	55 l/h	-	0,37 kW	G 3/8"	100	25/12	0380002	
SMG 1803	BG	80 l/h	-	0,37 kW	G 3/8"	100	25/12	0380003	
SMG 1804	BF	105 l/h	-	0,37 kW	G 3/8"	100	25/12	0380004	
SMG 1805	BGP	200 l/h	-	0,37 kW	G 1/2"	100	38/12	0380005	
SMG 1806	BGM	300 l/h	-	0,37 kW	G 1/2"	100	38/12	0380006	
SMG 1807	BGG	400 l/h	-	0,37 kW	G 1/2"	100	38/12	0380007	
SMG 1808	BHP	670 l/h	-	0,75 kW	G 3/4"	160	56/18	0380008	p _{max} 9 bar
SMG 1809	BHM	1000 l/h	-	0,75 kW	G 3/4"	160	56/18	0380009	
SMG 1810	BHG	1330 l/h	-	1,1 kW	G 3/4"	160	56/18	0380010	
SMG 1811	BHGP	2000 l/h	-	1,5 kW	G 1 1/2"	280	75/22	0380011	
SMG 1812	BHGM	3000 l/h	-	2,2 kW	G 1 1/2"	280	75/22	0380012	
SMG 1813	BHGG	4000 l/h	-	3,0 kW	G 1 1/2"	280	75/22	0380013	
SMG 1821	BP	30 l/h	20 l/h	0,37 kW	G 3/8"	100	25/12	0380014	
SMG 1822	BM	55 l/h	40 l/h	0,37 kW	G 3/8"	100	25/12	0380015	
SMG 1823	BG	80 l/h	60 l/h	0,37 kW	G 3/8"	100	25/12	0380016	
SMG 1824	BF	105 l/h	90 l/h	0,37 kW	G 3/8"	100	25/12	0380017	
SMG 1825	BGP	200 l/h	160 l/h	0,75 kW	G 1/2"	100	38/12	0380018	
SMG 1826	BGM	300 l/h	260 l/h	0,75 kW	G 1/2"	100	38/12	0380019	
SMG 1827	BGG	400 l/h	360 l/h	1,1 kW	G 1/2"	100	38/12	0380020	
SMG 1828	BHP	670 l/h	470 l/h	1,5 kW	G 3/4"	160	56/18	0380021	p _{max} 30 bar
SMG 1829	BHM	1000 l/h	800 l/h	2,2 kW	G 3/4"	160	56/18	0380022	
SMG 1830	BHG	1330 l/h	1100 l/h	3,0 kW	G 3/4"	160	56/18	0380023	
SMG 1831	BHGP	2000 l/h	1400 l/h	4,0 kW	G 1 1/2"	280	75/22	0380024	
SMG 1832	BHGM	3000 l/h	2400 l/h	5,5 kW	G 1 1/2"	280	75/22	0380025	
SMG 1833	BHGG	4000 l/h	3200 l/h	7,5 kW	G 1 1/2"	280	75/22	0380026	

1) Cyl. Withworth Pipe Threading: G...A DIN ISO 228

* To insure proper pump functioning, all pipe connections must be sized as per the principles of fluid technology using the phase quantity and in accordance with the given conditions at the installation site! The size of the pump and/or device connections is not indicative of the size of the pipe connection which must be used.

Series B; without overflow valve

3.5



Series size	Pump type	Dis-charge	Motor output	Dimensions															
				a	a1	b	c	e1	f3	g	g1	g2	h	k	k1	p	s	Pg	
SMG 1801	BP	30 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	43	-	71	376	69	180	7	11	
SMG 1802	BM	55 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	43	-	71	376	69	180	7	11	
SMG 1803	BG	80 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	43	-	71	376	69	180	7	11	
SMG 1804	BF	105 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	43	-	71	376	69	180	7	11	
SMG 1805	BGP	200 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	43	-	71	390	69	180	7	11	
SMG 1806	BGM	300 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	43	-	71	390	69	180	7	11	
SMG 1807	BGG	400 l/h	0,37 kW	100	43	125	8	G 1/2"	44	157	43	-	80	423	77	197	9,5	11	
SMG 1808	BHP	670 l/h	0,75 kW	100	49	125	8	G 3/4"	67	157	65	-	80	496	77	197	9,5	11	
SMG 1809	BHM	1000 l/h	0,75 kW	100	49	140	13	G 3/4"	67	181	65	137	90	531	92	214	11	13,5	
SMG 1810	BHG	1330 l/h	1,1 kW	125	49	140	13	G 3/4"	67	181	65	137	90	556	95	214	11	13,5	
SMG 1811	BHGP	2000 l/h	1,5 kW	140	65	160	14	G 1 1/2"	100	202	90	150	100	657	103	235	13	16	
SMG 1812	BHGM	3000 l/h	2,2 kW	140	65	190	15	G 1 1/2"	100	227	90	163	112	679	118	269	13	16	
SMG 1813	BHGG	4000 l/h	3,0 kW	140	65	216	17	G 1 1/2"	100	267	90	189	132	740	140	308	13	21	
SMG 1821	BP	30 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	43	-	71	376	69	180	7	11	
SMG 1822	BM	55 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	43	-	71	376	69	180	7	11	
SMG 1823	BG	80 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	43	-	71	376	69	180	7	11	
SMG 1824	BF	105 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	43	-	71	376	69	180	7	11	
SMG 1825	BGP	200 l/h	0,75 kW	100	43	125	8	G 1/2"	44	157	43	-	80	423	77	197	9,5	11	
SMG 1826	BGM	300 l/h	0,75 kW	100	43	140	13	G 1/2"	44	181	43	137	90	458	92	214	11	13,5	
SMG 1827	BGG	400 l/h	1,1 kW	125	43	140	13	G 1/2"	44	181	43	137	90	483	95	214	11	13,5	
SMG 1828	BHP	670 l/h	1,5 kW	140	49	160	14	G 3/4"	67	202	65	150	100	595	103	235	13	16	
SMG 1829	BHM	1000 l/h	2,2 kW	140	49	190	15	G 3/4"	67	227	65	163	112	617	118	269	13	16	
SMG 1830	BHG	1330 l/h	3,0 kW	140	49	216	17	G 3/4"	67	267	65	189	132	678	140	308	13	21	
SMG 1831	BHGP	2000 l/h	4,0 kW	178	65	216	17	G 1 1/2"	100	267	90	189	132	778	140	308	13	21	
SMG 1832	BHGM	3000 l/h	5,5 kW	178	65	216	17	G 1 1/2"	100	267	90	189	132	778	140	308	13	21	
SMG 1833	BHGG	4000 l/h	7,5 kW	210	65	254	20	G 1 1/2"	100	324	90	209	160	877	157	366	16	21	

hp-Motor pump group; SMG series

3.6

Series VB with integrated overflow valve

Single system with 950 min⁻¹ and hp industrial pumps.

Suitable for use with hydraulic oils, lubricating oils, all fuel oils, coal and lignite tar oils, kerosene and many other self-lubricating fluids. The motor output data applies for fluids with a viscosity of up to 400 cSt. From 400 to 1000 cSt, the motor must be one power stage stronger. Available at a surcharge upon request.

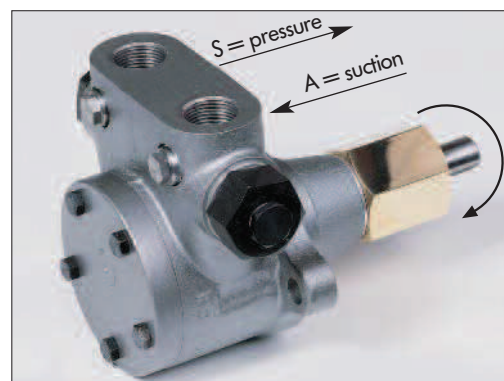
The pump connections are indicated as follows:

A = suction connection S = delivery connection

The standard model of the pumps is designed with a counterclockwise direction of rotation (viewed from the pump shaft). The position of the pump connections is independent of the direction of rotation. (See illustration.)

Direction of rotation I = counterclockwise, standard model

For clockwise rotation, D, the oil connections A = suction and S = delivery are interchanged



Series size	Pump type	Discharge at 950 min ⁻¹		Motor output	Connections*	H1 Heater Watt	Gear rotor/shaft	Article-no.	
		at 0 - 9 bar	at 30 bar						
SMG 1841	VBP	30 l/h	-	0,37 kW	G 3/8"	100	25/12	0380027	p _{max} 9 bar
SMG 1842	VBM	55 l/h	-	0,37 kW	G 3/8"	100	25/12	0380028	
SMG 1843	VBG	80 l/h	-	0,37 kW	G 3/8"	100	25/12	0380029	
SMG 1844	VBF	105 l/h	-	0,37 kW	G 3/8"	100	25/12	0380030	
SMG 1845	VGBP	200 l/h	-	0,37 kW	G 1/2"	100	38/12	0380031	
SMG 1846	VBGM	300 l/h	-	0,37 kW	G 1/2"	100	38/12	0380032	
SMG 1847	VBGG	400 l/h	-	0,37 kW	G 1/2"	100	38/12	0380033	
SMG 1848	VBHP	670 l/h	-	0,75 kW	G 3/4"	160	56/18	0380034	
SMG 1849	VBHM	1000 l/h	-	0,75 kW	G 3/4"	160	56/18	0380035	
SMG 1850	VBHG	1330 l/h	-	1,1 kW	G 3/4"	160	56/18	0380036	
SMG 1851	VBHGP	2000 l/h	-	1,5 kW	G 1"	280	75/22	0380037	
SMG 1852	VBHGM	3000 l/h	-	2,2 kW	G 1"	280	75/22	0380038	
SMG 1853	VBHGG	4000 l/h	-	3,0 kW	G 1"	280	75/22	0380039	
SMG 1861	VBP	30 l/h	20 l/h	0,37 kW	G 3/8"	100	25/12	0380040	p _{max} 30 bar
SMG 1862	VBM	55 l/h	40 l/h	0,37 kW	G 3/8"	100	25/12	0380041	
SMG 1863	VBG	80 l/h	60 l/h	0,37 kW	G 3/8"	100	25/12	0380042	
SMG 1864	VBF	105 l/h	90 l/h	0,37 kW	G 3/8"	100	25/12	0380043	
SMG 1865	VGBP	200 l/h	160 l/h	0,75 kW	G 1/2"	100	38/12	0380044	
SMG 1866	VBGM	300 l/h	260 l/h	0,75 kW	G 1/2"	100	38/12	0380045	
SMG 1867	VBGG	400 l/h	360 l/h	1,1 kW	G 1/2"	100	38/12	0380046	
SMG 1868	VBHP	670 l/h	470 l/h	1,5 kW	G 3/4"	160	56/18	0380047	
SMG 1869	VBHM	1000 l/h	800 l/h	2,2 kW	G 3/4"	160	56/18	0380048	
SMG 1870	VBHG	1330 l/h	1100 l/h	3,0 kW	G 3/4"	160	56/18	0380049	
SMG 1871	VBHGP	2000 l/h	1400 l/h	4,0 kW	G 1"	280	75/22	0380050	
SMG 1872	VBHGM	3000 l/h	2400 l/h	5,5 kW	G 1"	280	75/22	0380051	
SMG 1873	VBHGG	4000 l/h	3200 l/h	7,5 kW	G 1"	280	75/22	0380052	

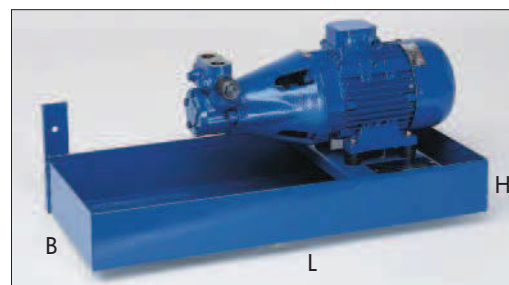
Accessory

„WA“ = oil pan and anti-vibration pads for mounting on the wall

„LH“ = oil leakage warning device has passed WHG and TÜV inspections.

Also suitable for later installation on already installed aggregates to meet new regulations.

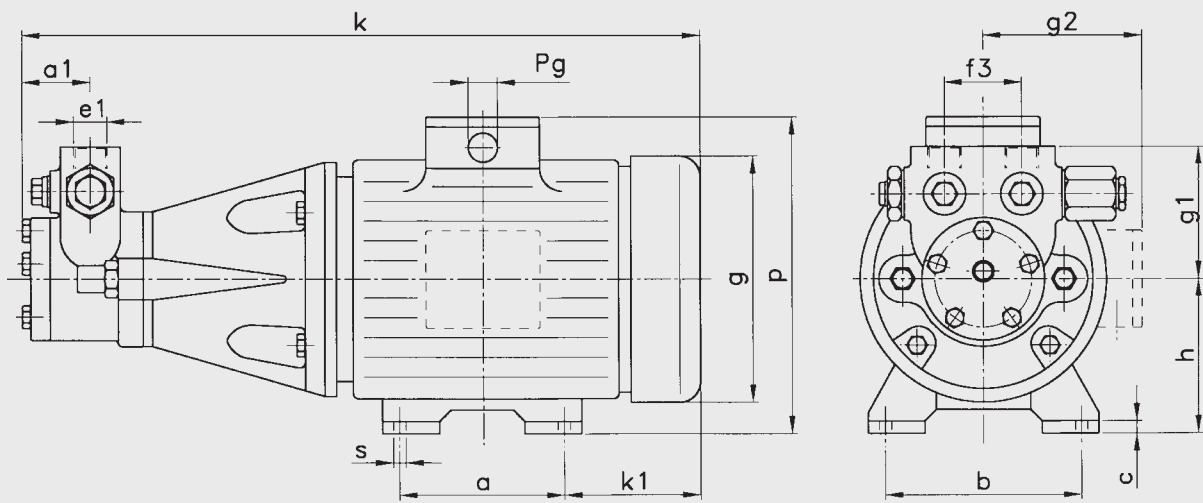
Gear rotor/shaft	Pan dimensions mm			Article-no.
	L	B	H	
25/12 + 38/12	600	270	80	0820502
56/18	840	270	80	0820504
75/22	1050	360	80	0850065
Fuel oil warning decide Type HMS at 230 V				0720701
Fuel oil warning decide Type HMW				0720705



* To insure proper pump functioning, all pipe connections must be sized as per the principles of fluid technology using the phase quantity and in accordance with the given conditions at the installation site! The size of the pump and/or device connections is not indicative of the size of the pipe connection which must be used.

Series VB; with integrated overflow valve

3.6



Size series	Pump type	Dis-charge	Motor output	Dimensions															
				a	a1	b	c	e1	f3	g	g1	g2	h	k	k1	p	s	Pg	
SMG 1841	VBP	30 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1842	VBM	55 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1843	VBG	80 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1844	VBF	105 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1845	VGBP	200 l/h	0,37 kW	90	36	112	7	G 1/2"	44	139	75	-	71	390	69	180	7	11	
SMG 1846	VBGM	300 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	75	-	71	390	69	180	7	11	
SMG 1847	VGG	400 l/h	0,37 kW	100	43	125	8	G 1/2"	44	157	75	-	80	423	77	197	9,5	11	
SMG 1848	VBHP	670 l/h	0,75 kW	100	49	125	8	G 3/4"	67	157	90	-	80	496	77	197	9,5	11	
SMG 1849	VBHM	1000 l/h	0,75 kW	100	49	140	13	G 3/4"	67	181	90	137	80	531	92	214	11	13,5	
SMG 1850	VBHG	1330 l/h	1,1 kW	125	49	140	13	G 3/4"	67	181	90	137	90	556	95	214	11	13,5	
SMG 1851	VBHGP	2000 l/h	1,5 kW	140	65	160	14	G 1"	80	202	120	150	100	657	103	235	13	16	
SMG 1852	VBHGM	3000 l/h	2,2 kW	140	65	190	15	G 1"	80	227	120	163	112	679	118	269	13	16	
SMG 1853	VBHGG	4000 l/h	3,0 kW	140	65	216	17	G 1"	80	267	120	189	132	740	140	308	13	21	
SMG 1861	VBP	30 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1862	VBM	55 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1863	VBG	80 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1864	VBF	105 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1865	VGBP	200 l/h	0,75 kW	100	43	125	8	G 1/2"	44	157	75	-	80	423	77	197	9,5	11	
SMG 1866	VBGM	300 l/h	0,75 kW	100	43	140	13	G 1/2"	44	181	75	137	90	458	92	214	11	13,5	
SMG 1867	VGG	400 l/h	1,1 kW	125	43	140	13	G 1/2"	44	181	75	137	90	483	95	214	11	13,5	
SMG 1868	VBHP	670 l/h	1,5 kW	140	49	160	14	G 3/4"	67	202	90	150	100	595	103	235	13	16	
SMG 1869	VBHM	1000 l/h	2,2 kW	140	49	190	15	G 3/4"	67	227	90	163	112	617	118	269	13	16	
SMG 1870	VBHG	1330 l/h	3,0 kW	140	49	216	17	G 3/4"	67	267	90	189	132	678	140	308	13	21	
SMG 1871	VBHGP	2000 l/h	4,0 kW	178	65	216	17	G 1"	80	267	120	189	132	778	140	308	13	21	
SMG 1872	VBHGM	3000 l/h	5,5 kW	178	65	216	17	G 1"	80	267	120	189	132	778	140	308	13	21	
SMG 1873	VBHGG	4000 l/h	7,5 kW	210	65	254	20	G 1"	80	324	120	209	160	877	157	366	16	21	

Industrial pumps, overflow valves

Motor pump program, motor pump groups

Aggregates for single pipe installation

Feed pumps and delivery aggregates

Accessories and spare parts

Oil burner nozzles

Special aggregates, terms of sale

hp-Motor pump group; SMG series

3.7

Series VBR with integrated overflow valve and bypass

Single system with 950 min⁻¹ and hp industrial pumps.

Suitable for use with hydraulic oils, lubricating oils, all fuel oils, coal and lignite tar oils, kerosene and many other self-lubricating fluids. The motor output data applies for fluids with a viscosity of up to 400 cSt. From 400 to 1000 cSt, the motor must be one power stage stronger. Available at a surcharge upon request.

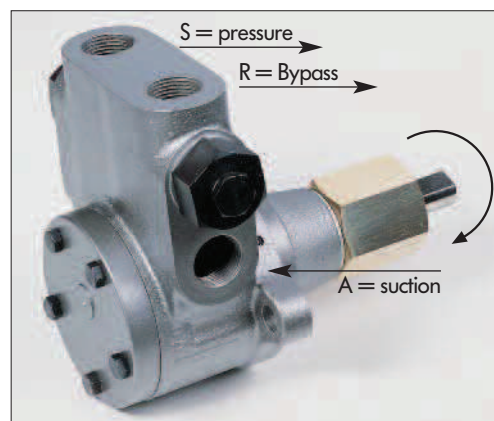
The pump connections are indicated as follows:

A = suction connection **S** = delivery connection **R** = bypass connection

The standard models of the pumps are designed with a counterclockwise direction of rotation (viewed from the pump shaft). The position of the pump connections is independent of the direction of rotation. (See illustration.)

Direction of rotation I = counterclockwise, standard model

For clockwise rotation, D, the oil connections S = delivery and R = bypass are interchanged. The suction connection A = suction is found on the other side.

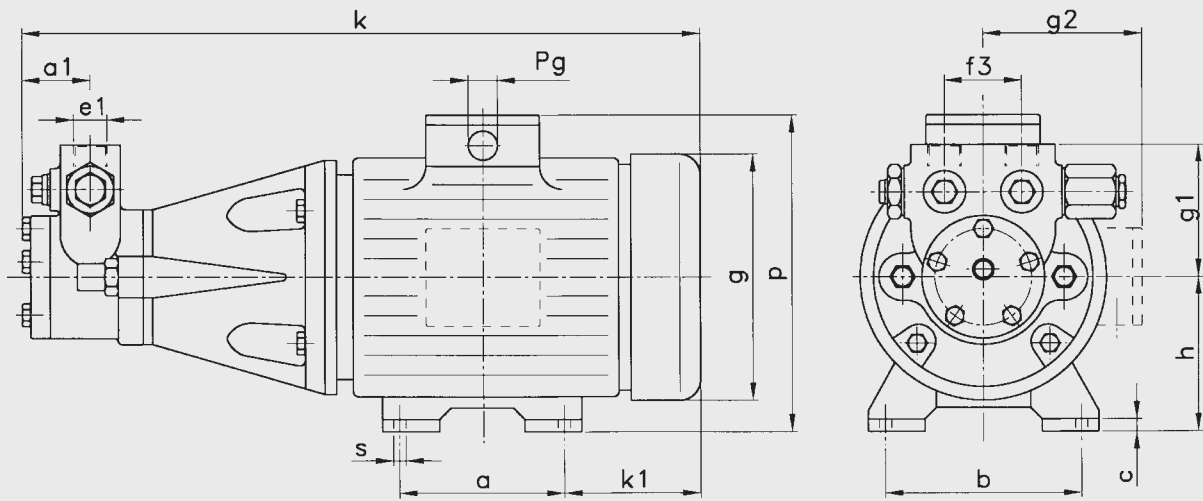


Series size	Pump type	Discharge at 950 min ⁻¹		Motor output	Connections*	H1 Heater Watt	Gear rotor/shaft	Article-no.	
		bei 0 - 9 bar	bei 30 bar						
SMG 1881	VBRP	30 l/h	-	0,37 kW	G 3/8"	100	25/12	0380061	p _{max} 9 bar
SMG 1882	VBRM	55 l/h	-	0,37 kW	G 3/8"	100	25/12	0380062	
SMG 1883	VBRG	80 l/h	-	0,37 kW	G 3/8"	100	25/12	0380063	
SMG 1884	VBRF	105 l/h	-	0,37 kW	G 3/8"	100	25/12	0380064	
SMG 1885	VBGRP	200 l/h	-	0,37 kW	G 1/2"	100	38/12	0380065	
SMG 1886	VBGRM	300 l/h	-	0,37 kW	G 1/2"	100	38/12	0380066	
SMG 1887	VBGRG	400 l/h	-	0,37 kW	G 1/2"	100	38/12	0380067	
SMG 1888	VBHRP	670 l/h	-	0,75 kW	G 3/4"	160	56/18	0380068	
SMG 1889	VBHRM	1000 l/h	-	0,75 kW	G 3/4"	160	56/18	0380069	
SMG 1890	VBHRG	1330 l/h	-	1,1 kW	G 3/4"	160	56/18	0380070	
SMG 1891	VBHGRP	2000 l/h	-	1,5 kW	G 1" ¹⁾	280	75/22	0380071	
SMG 1892	VBHGRM	3000 l/h	-	2,2 kW	G 1" ¹⁾	280	75/22	0380072	
SMG 1893	VBHGRC	4000 l/h	-	3,0 kW	G 1" ¹⁾	280	75/22	0380073	
SMG 1881-25	VBRP	30 l/h	20 l/h	0,37 kW	G 3/8"	100	25/12	0380040	p _{max} 30 bar
SMG 1882-25	VBRM	55 l/h	40 l/h	0,37 kW	G 3/8"	100	25/12	0380041	
SMG 1883-25	VBRG	80 l/h	60 l/h	0,37 kW	G 3/8"	100	25/12	0380042	
SMG 1884-25	VBRF	105 l/h	90 l/h	0,37 kW	G 3/8"	100	25/12	0380043	
SMG 1885-25	VBGRP	200 l/h	160 l/h	0,75 kW	G 1/2"	100	38/12	0380044	
SMG 1886-25	VBGRM	300 l/h	260 l/h	0,75 kW	G 1/2"	100	38/12	0380045	
SMG 1887-25	VBGRG	400 l/h	360 l/h	1,1 kW	G 1/2"	100	38/12	0380046	
SMG 1888-25	VBHRP	670 l/h	470 l/h	1,5 kW	G 3/4"	160	56/18	0380047	
SMG 1889-25	VBHRM	1000 l/h	800 l/h	2,2 kW	G 3/4"	160	56/18	0380048	
SMG 1890-25	VBHRG	1330 l/h	1100 l/h	3,0 kW	G 3/4"	160	56/18	0380049	
SMG 1891-25	VBHGRP	2000 l/h	1400 l/h	4,0 kW	G 1"	280	75/22	0380050	
SMG 1892-25	VBHGRM	3000 l/h	2400 l/h	5,5 kW	G 1"	280	75/22	0380051	
SMG 1893-25	VBHGRC	4000 l/h	3200 l/h	7,5 kW	G 1"	280	75/22	0380052	

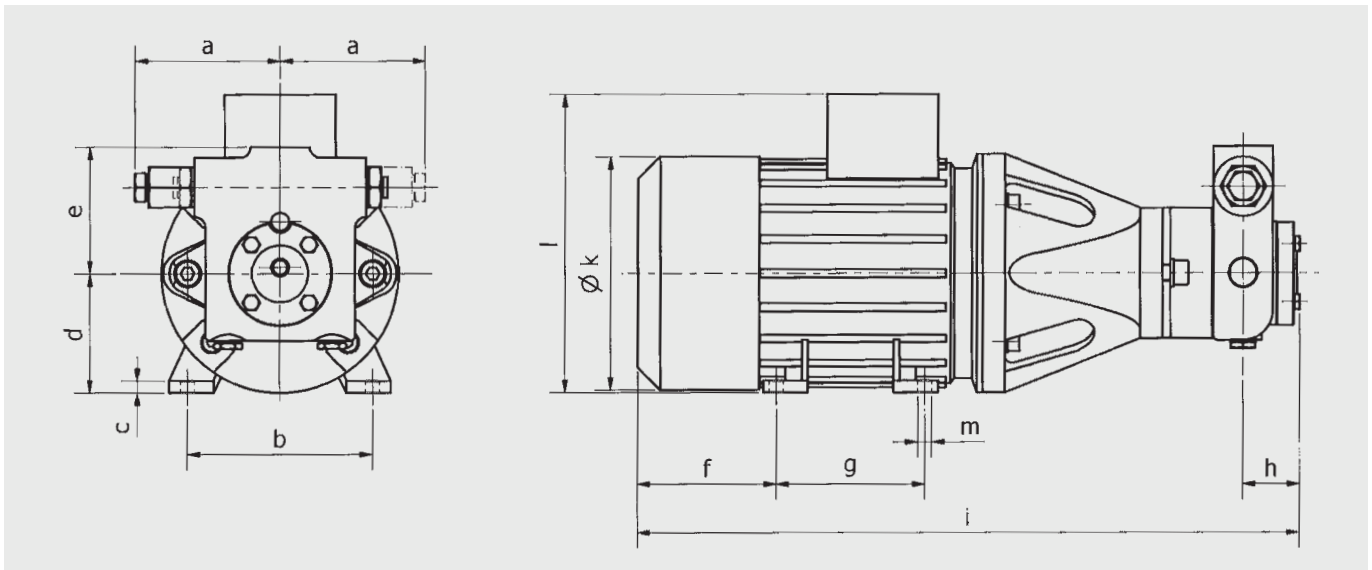
* To insure proper pump functioning, all pipe connections must be sized as per the principles of fluid technology using the phase quantity and in accordance with the given conditions at the installation site!
The size of the pump and/or device connections is not indicative of the size of the pipe connection which must be used.

Series VBR; with integrated overflow valves and bypass

3.7



Size series	Pump type	Dis-charge	Motor output	Dimensions															
				a	a1	b	c	e1	f3	g	g1	g2	h	k	k1	p	s	Pg	
SMG 1881	VBRP	30 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1882	VBRM	55 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1883	VBRG	80 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1884	VBRF	105 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1885	VBGRP	200 l/h	0,37 kW	90	36	112	7	G 1/2"	44	139	75	-	71	390	69	180	7	11	
SMG 1886	VBGRM	300 l/h	0,37 kW	90	43	112	7	G 1/2"	44	139	75	-	71	390	69	180	7	11	
SMG 1887	VBGRG	400 l/h	0,37 kW	100	43	125	8	G 1/2"	44	157	75	-	80	423	77	197	9,5	11	
SMG 1888	VBHRP	670 l/h	0,75 kW	100	49	125	8	G 3/4"	67	157	90	-	80	496	77	197	9,5	11	
SMG 1889	VBHRM	1000 l/h	0,75 kW	100	49	140	13	G 3/4"	67	181	90	137	80	531	92	214	11	13,5	
SMG 1890	VBHRG	1330 l/h	1,1 kW	125	49	140	13	G 3/4"	67	181	90	137	90	556	95	214	11	13,5	
SMG 1891	VBHGRP	2000 l/h	1,5 kW	140	65	160	14	G 1"	80	202	120	150	100	657	103	235	13	16	
SMG 1892	VBHGRM	3000 l/h	2,2 kW	140	65	190	15	G 1"	80	227	120	163	112	679	118	269	13	16	
SMG 1893	VBHGRG	4000 l/h	3,0 kW	140	65	216	17	G 1"	80	267	120	189	132	740	140	308	13	21	
SMG 1881-25	VBRP	30 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1882-25	VBRM	55 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1883-25	VBRG	80 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1884-25	VBRF	105 l/h	0,37 kW	90	36	112	7	G 3/8"	38	139	67	-	71	376	69	180	7	11	
SMG 1885-25	VBGRP	200 l/h	0,75 kW	90	43	125	8	G 1/2"	44	157	75	-	80	423	77	197	9,5	11	
SMG 1886-25	VBGRM	300 l/h	0,75 kW	90	43	140	13	G 1/2"	44	181	75	137	90	458	92	214	11	13,5	
SMG 1887-25	VBGRG	400 l/h	1,1 kW	100	43	140	13	G 1/2"	44	181	75	137	90	483	95	214	11	13,5	
SMG 1888-25	VBHRP	670 l/h	1,5 kW	100	49	160	14	G 3/4"	67	202	90	150	100	595	103	235	13	16	
SMG 1889-25	VBHRM	1000 l/h	2,2 kW	100	49	190	15	G 3/4"	67	227	90	163	112	617	118	269	13	16	
SMG 1890-25	VBHRG	1330 l/h	3,0 kW	125	49	216	17	G 3/4"	67	267	90	189	132	678	140	308	13	21	
SMG 1891-25	VBHGRP	2000 l/h	4,0 kW	140	65	216	17	G 1"	80	267	120	189	132	778	140	308	13	21	
SMG 1892-25	VBHGRM	3000 l/h	5,5 kW	140	65	216	17	G 1"	80	267	120	189	132	778	140	308	13	21	
SMG 1893-25	VBHGRG	4000 l/h	7,5 kW	140	65	254	20	G 1"	80	324	120	209	160	877	157	366	16	21	

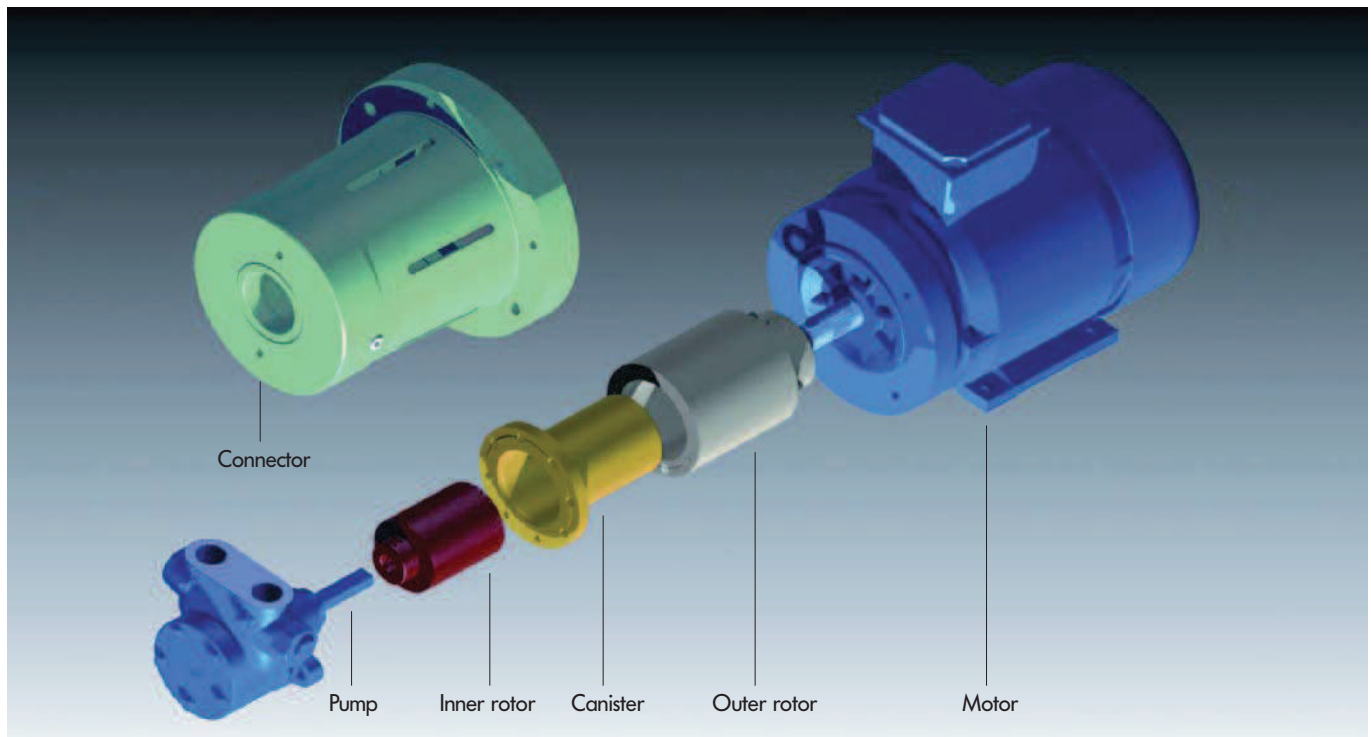


for 1400 rpm

Series size	Pump type	Discharge at			Motor output	Art.-no.	Thread connection for (S/A/R)	a	b	c	d	e	f	g	h	i	k	l	m
		9 bar	30 bar	40 bar															
UMG 1101	UHE-A2-PZ	200	-	-	0,37 kW/BG 71	03905001	G1/2"	98	112	7	71	85	82	90	38	410	139	182	7
UMG 1102	UHE-A3-P	300	-	-	0,37 kW/BG 71	03905005	G1/2"	98	112	7	71	85	82	90	38	414	139	182	7
UMG 1103	UHE-A4-M	450	-	-	0,37 kW/BG 71	03905010	G1/2"	98	112	7	71	85	82	90	38	418	139	182	7
UMG 1104	UHE-A5-GZ	550	-	-	0,37 kW/BG 71	03905015	G1/2"	98	112	7	71	85	82	90	38	424	139	182	7
UMG 1105	UHE-A2-PZ	-	155	-	0,55 kW/BG 80	03905002	G1/2"	98	125	8	80	85	94	100	38	442	157	200	9,5
UMG 1106	UHE-A3-P	-	260	-	0,55 kW/BG 80	03905006	G1/2"	98	125	8	80	85	94	100	38	446	157	200	9,5
UMG 1107	UHE-A4-M	-	425	-	0,75 kW/BG 80	03905011	G1/2"	98	125	8	80	85	94	100	38	450	157	200	9,5
UMG 1108	UHE-A5-GZ	-	500	-	0,75 kW/BG 80	03905016	G1/2"	98	125	8	80	85	94	100	38	456	157	200	9,5
UMG 1109	UHE-A2-PZ	-	-	140	0,55 kW/BG 80	03905003	G1/2"	98	125	8	80	85	94	100	38	442	157	200	9,5
UMG 1110	UHE-A3-P	-	-	240	0,75 kW/BG 80	03905007	G1/2"	98	125	8	80	85	94	100	38	446	157	200	9,5
UMG 1111	UHE-A4-M	-	-	390	1,1 kW/BG 90 S	03905012	G1/2"	98	140	10	90	85	125	100	38	508	174	218	10
UMG 1112	UHE-A5-GZ	-	-	450	1,1 kW/BG 90 S	03905017	G1/2"	98	140	10	90	85	125	100	38	514	174	218	10

for 2800 rpm

Series size	Pump type	Discharge at			Motor output	Art.-no.	Thread connection for (S/A/R)	a	b	c	d	e	f	g	h	i	k	l	m
		9 bar	30 bar	40 bar															
UMG 1201	UHE-A2-PZ	500	-	-	0,37 kW/BG 71	03905201	G1/2"	98	112	7	71	85	82	90	38	410	139	182	7
UMG 1202	UHE-A3-P	700	-	-	0,37 kW/BG 71	03905205	G1/2"	98	112	7	71	85	82	90	38	414	139	182	7
UMG 1203	UHE-A4-M	900	-	-	0,55 kW/BG 80	03905210	G1/2"	98	112	7	71	85	82	90	38	418	139	182	7
UMG 1204	UHE-A5-GZ	1300	-	-	0,55 kW/BG 80	03905215	G1/2"	98	112	7	71	85	82	90	38	424	139	182	7
UMG 1205	UHE-A2-PZ	-	380	-	0,75 kW/BG 80	03905202	G1/2"	98	125	8	80	85	94	100	38	442	157	200	9,5
UMG 1206	UHE-A3-P	-	600	-	1,1 kW/BG 80	03905206	G1/2"	98	125	8	80	85	94	100	38	446	157	200	9,5
UMG 1207	UHE-A4-M	-	850	-	1,5 kW/BG 90 S	03905211	G1/2"	98	140	10	90	85	125	100	38	508	174	218	10
UMG 1208	UHE-A5-GZ	-	1150	-	2,2 kW/BG 90 L	03905216	G1/2"	98	140	10	90	85	100	125	38	514	174	218	10
UMG 1209	UHE-A2-PZ	-	-	330	1,1 kW/BG 80	03905203	G1/2"	98	125	8	80	85	94	100	38	442	157	200	9,5
UMG 1210	UHE-A3-P	-	-	550	1,5 kW/BG 90 S	03905207	G1/2"	98	140	10	90	85	125	100	38	504	174	218	10
UMG 1211	UHE-A4-M	-	-	800	2,2 kW/BG 90 L	03905212	G1/2"	98	140	10	90	85	100	125	38	508	174	218	10
UMG 1212	UHE-A5-GZ	-	-	1050	2,2 kW/BG 90 L	03905217	G1/2"	98	140	10	90	85	100	125	38	514	174	218	10



hp-MaG-Drive

- **hp-MaG-Drive is 100% free of leakage**
- **A magnetic field will be synchronized, so that pump can be restarted again**
- **A special alloy guarantees a stable magnetic field within a wide range of temperature**
- **All hp-SMG motor pump groups can be refitted in our plant with a kit**

Never again damages caused by defective mechanical seals

Until now mechanical seals had to be replaced in regular intervals or due to a defect untimely. The lifecycle costs were one significant factor in case of buying a pump. These times are all over now! Our hp-MaG-Drive is 100% free of leakage. Maintenance or repairs of the usual mechanical seal will definitely be a thing of the past.

The non-contact transmission of rotation assures additional safety by a non-destructive mechanical isolation in case of overcharge or blockades. As soon as the motor has been switched off, the magnetic field will be synchronized so that pump can be restarted again.

The implementation of permanent magnets out of a special alloy of samarium and cobalt guarantees a stable magnetic field within a wide range of temperature as well as a long period of time.

All hp-motor pump groups of the SMG-series will be available with our hp-MaG-Drive or can be refitted in our plant with a kit within a short period of time. The connecting dimensions of the usual SMG will not change.

Beside all the named advantages the environmental protection takes the center stage in our development work. Protecting our environment from damages by our products – for instance caused by unnoticed leakage of polluting media – we will increase our efforts in the further developing of our hp-products.

Operational conditions:

Self-lubricating media with a viscosity from 5-500 mm²/s

Flow rate:
160-6000 l/h

Pressure _{max.}:
40 bar

Torsional moment _{max.}:
80 Nm



All hp-Assemblies can be refitted with the hp-MaG-Drive