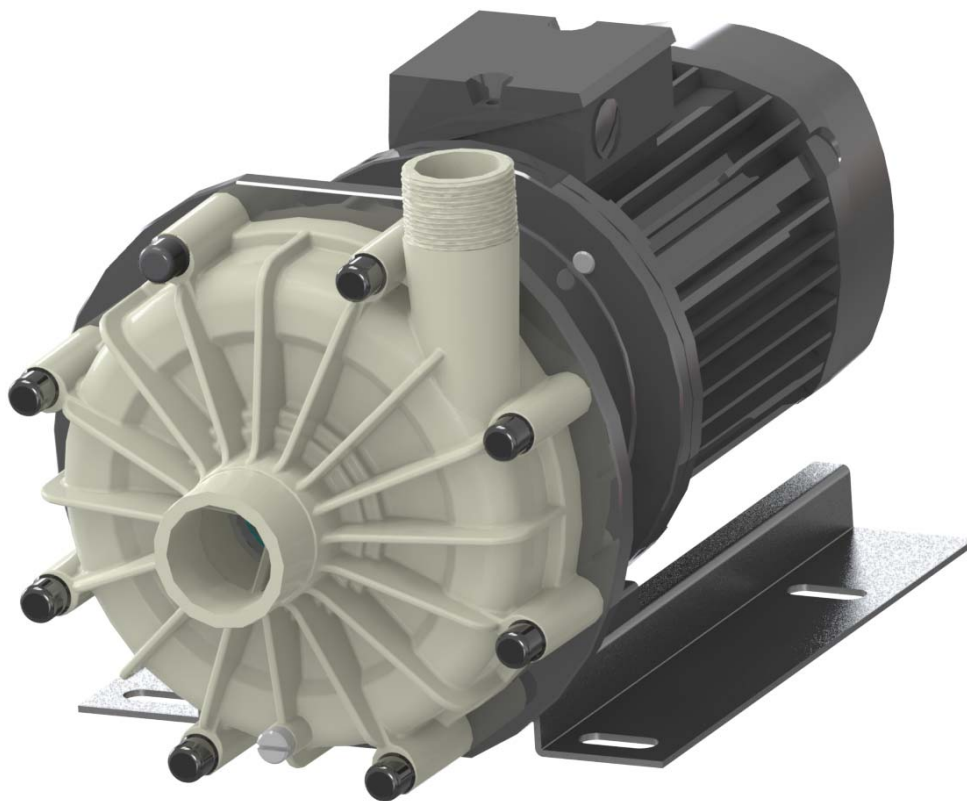


Serie SHM

Magnetic coupled
centrifugal pump SHM



Flow rate: up to 65 m³/h (2900 rpm)

Head: up to 27 m (2900 rpm)

Drive capacity: 0,18 up to 7,5 kW

Operating temperature: PP bis 80°C
PVDF bis 110°C

Fluid viscosity: max. 160 mPas (cP)

Fluid density: up to 1,9 kg/dm³

Explosion protection (ATEX): on request

Features

- hermetically encapsulated hydraulics and smooth running
- wide performance spectrum of up to 7.5 kW
- powerful magnet system
- compact design
- unfilled PVDF version for high-quality applications
- high availability due to modular design system

Utilisation

- for transportation of neutral, aggressive, crystallizing, ground water contaminating, toxic and/or explosive acids, alkalines or solution mixtures free of solids provided that the components getting in contact with the medium are resistant at operating temperature according to the ASV resistance guide.

Suction

- the pump is not self-priming

Testing

- acc. to DIN EN ISO 9906

Materials

- hydraulic: PP-GF* oder PVDF
- seals: EPDM, FPM, FFKM
- sliding bearing (rotary / static): SSiC/ SSiC
HD-Carbon/ SSiC**
- connecting bolts: stainless steel (1.4301)
- metallic components: corrosion protection by multi coating with high grade 2C protection paint coat

Connection

- SHM 20-15: standard union DIN 8063
- SHM 40-40 bis 65-50: adapter for threaded necks acc. DIN 8063 or
adapter for flange acc. DIN EN 1092 or flange acc. ANSI

Motor (standard version)

- voltage (0,18 - 2,20 kW) 230/400V, 50Hz
- voltage (3,00 - 7,50 kW) 400/690V, 50Hz
- protection type: IP 55
- varnishing: RAL 7016 acid-proof
- suitable for operation on a frequency converter
- PTC (thermistor recommended)

Motor options

- frequency converter
- temperature sensor
- tropical insulation
- forced ventilation
- anti-condensation heating (from 3 kW)

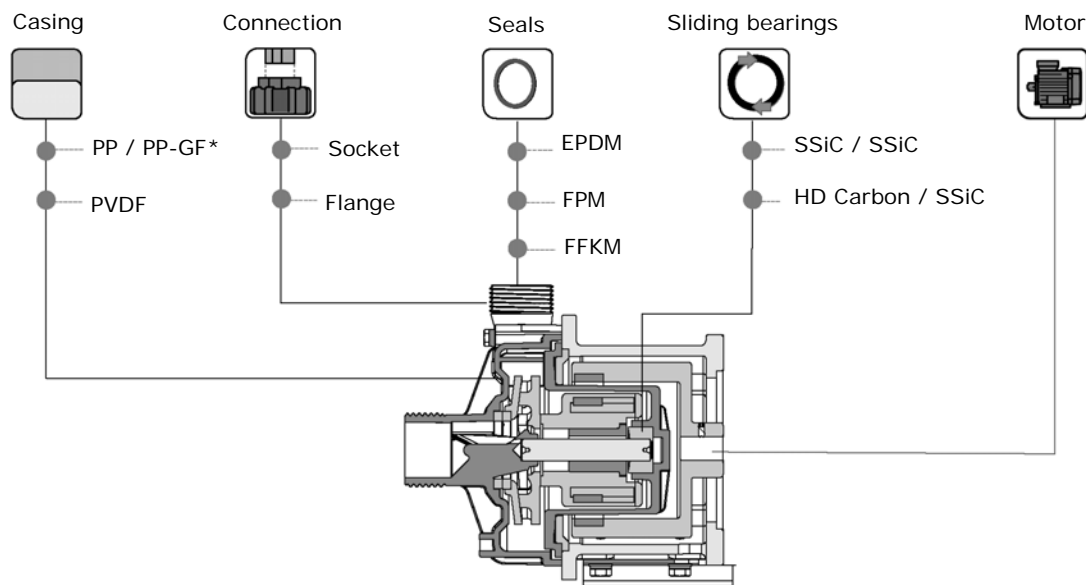
Accessories

- pump guard PTM
- self-priming container
-

* casing fiberglass-reinforced






** safe to run dry

Variants

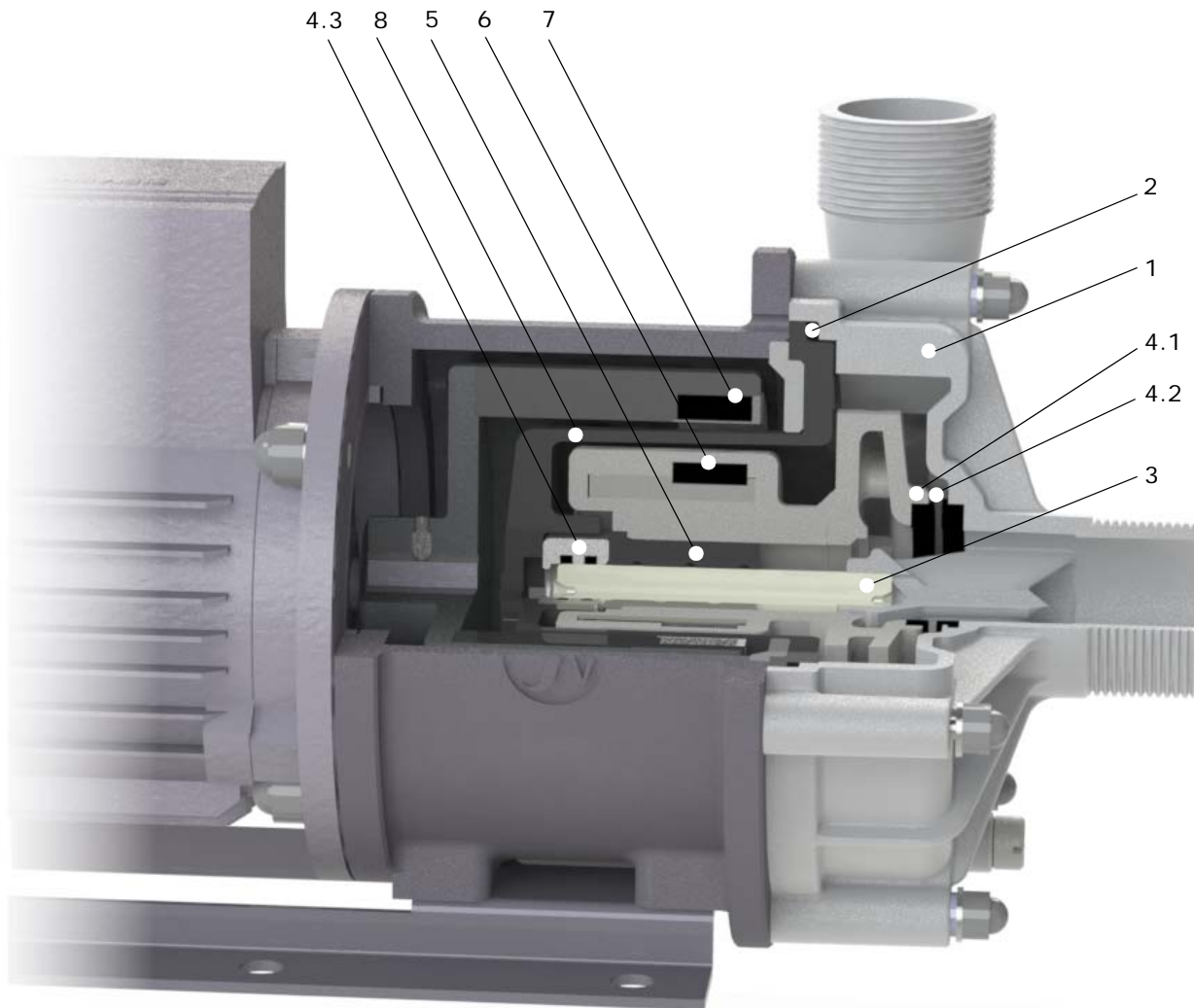


*Casing fiberglass-reinforced

Variants

Type		20-15	40-40-S	40-40-L	50-40-S	50-40-L	65-50
H_{max} (m)		7	11	16	23	27	27
Q_{max} (m³/h)		3	16	19	27	35	65
Casing							
	PP-PPGF*	•	•	•	•	•	•
	PVDF	•	•	•	•	•	•
Connection							
	threaded necks DIN 8063	•	•	•	•	•	•
	flange DIN EN 1092		•	•	•	•	•
	flange ANSI		•	•	•	•	•
Seals							
	EPDM	•	•	•	•	•	•
	FPM	•	•	•	•	•	•
	FFKM (flange)	•	•	•	•	•	•
	FFKM (threaded necks)	•	•	•	•	•	•
Bearings							
	SSiC/ SSiC	•	•	•	•	•	•
	DH-Carbon/ SSiC	•	•	•	•	•	•
Motor							
	2900 rpm						
	0,18 kW	•					
	0,25 kW	•					
	0,37 kW		•				
	0,55 kW		•				
	0,75 kW			•			
	1,10 kW			•			
	1,50 kW			•	•		
	2,20 kW				•	•	
	3,00 kW				•	•	
4,00 kW					•	•	
5,50 kW						•	
7,50 kW						•	

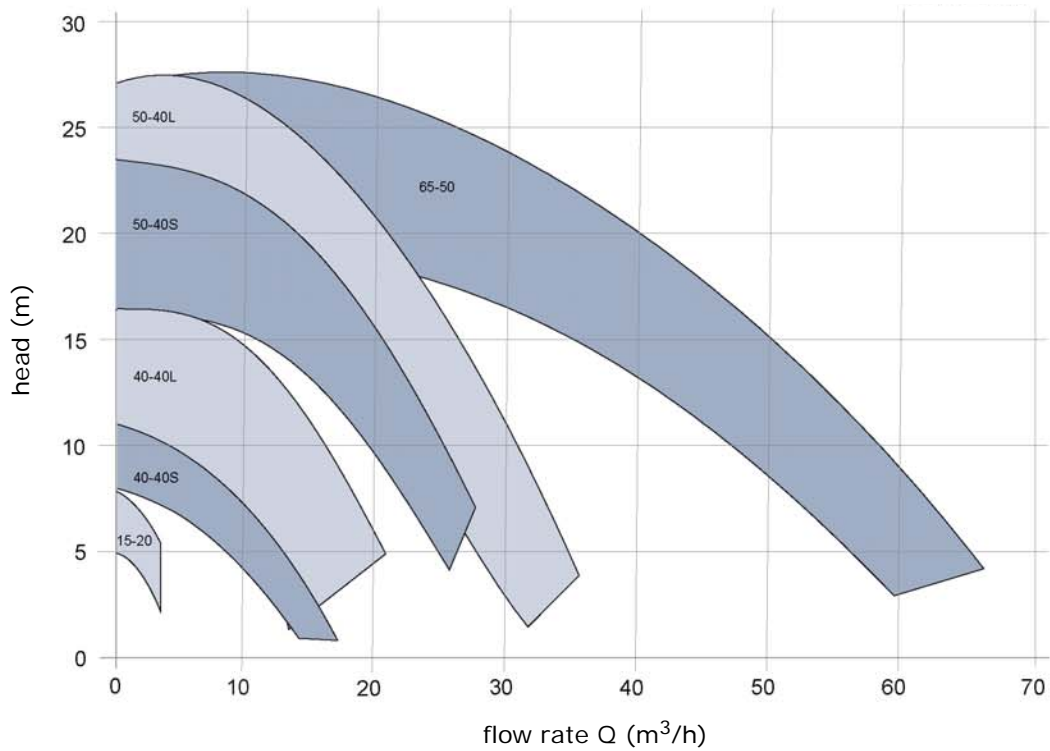
Sectional drawing



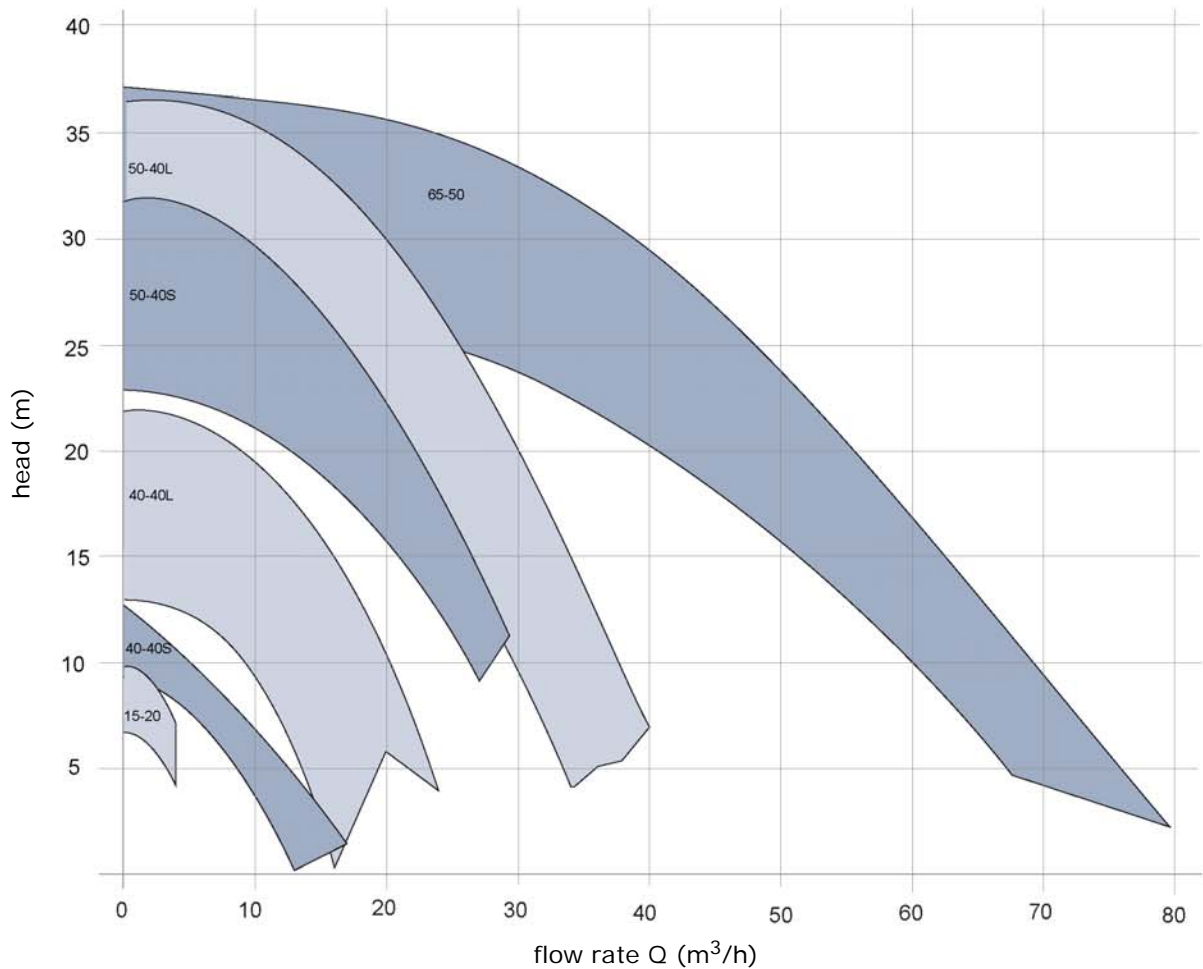
item	designation
1	casing
2	O-ring
3	impeller shaft
4.1	axial bearing (impeller)
4.2	axial bearing (casing)
4.3	axial bearing (rear cover)
5	bearing bush
6	Impeller with magnet
7	motor coupling with magnet
8	rear cover

Performance curves (testing with water)

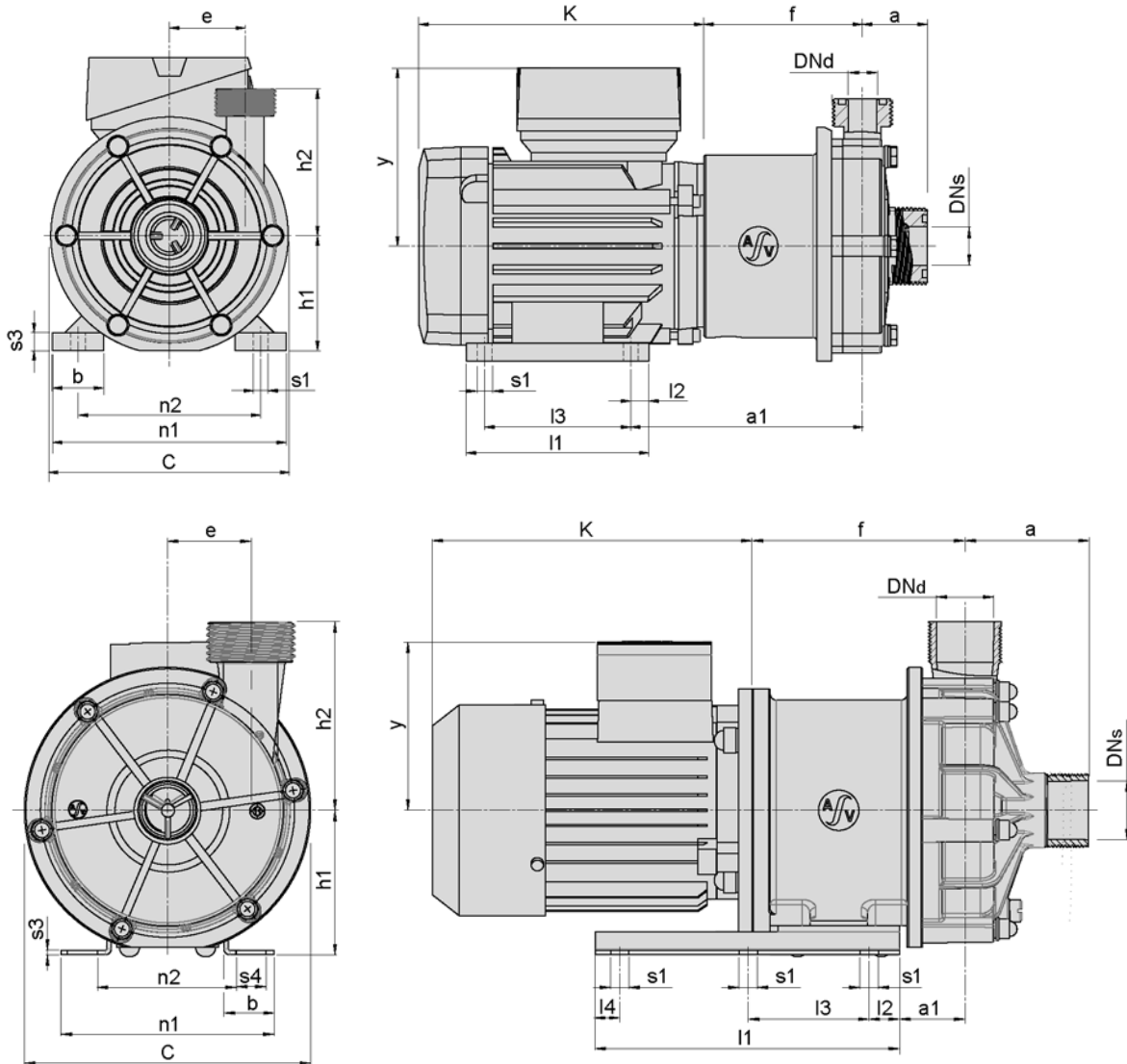
3000 rpm, 50 Hz



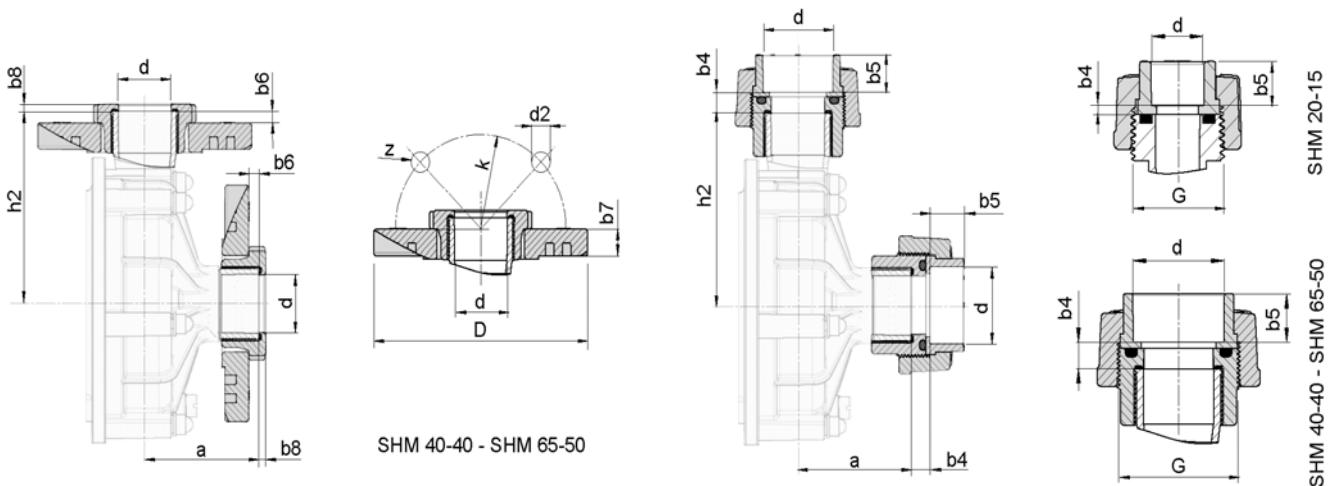
3600 rpm, 60 Hz



Pump dimensions



Connection adapter



Pump dimension

SHM		20-15	40-40-S	40-40-L	50-40-S	50-40-L	65-50
suction side	DNs	20	40	40	50	50	65
	d	32	50	50	63	63	75
	G	1 1/2"	2 1/4"	2 1/4"	2 3/4"	2 3/4"	3 1/2"
	b4	3	13	13	13	13	17
	b5	16	23,5	23,5	27,5	27,5	30
	b6	-	7,4	7,4	6,5	6,5	7,5
	b7	-	18	18	19	19	19,5
	b8	-	4,7	4,7	5,5	5,5	8,5
	D	-	150	150	165	165	185
	d2	-	18	18	18	18	18
	k	-	110	110	125	125	145
	z	-	4	4	4	4	4
pressure side	DNd	15	40	40	40	40	50
	d	20	50	50	50	50	63
	G	1"	2 1/4"	2 1/4"	2 1/4"	2 1/2"	2 3/4"
	b4	3	13	13	13	13	13
	b5	14,5	23,5	23,5	23,5	23,5	27,5
	b6	-	7,4	7,4	4,7	4,7	6,5
	b7	-	18	18	18	18	19
	b8	-	4,7	4,7	7,3	7,3	5,5
	D	-	150	150	150	150	165
	d2	-	18	18	18	18	18
	k	-	110	110	110	110	125
	z	-	4	4	4	4	4
pump dimensions	a	36	81	97	83	83	96
	a1	119	43	45	48	48	53
	b	27	33	33	58	58	34
	e	41	55	73	81	81	80
	h1	63	95	115	120	120	142
	h2	80	125	137	154	154	164
	l1	100	200	210	300	300	360
	l2	8	20	36	20	20	30
	l3	80	98	130	200	200	90
	l4	-	-	-	-	-	30
	n1	128	140	160	260	266	250
	n2	100	110	130	185	185	201,5
	s1	7	12	12	13,5	13,5	13,5
s3	10	3	3	3	3	4	
s4	-	-	-	22	22	18,5	

Motor dimensions

size/ motor		0,18 kW	0,25 kW	0,37 kW	0,55 kW	0,75 kW	1,10 kW	1,50 kW	1,50 kW	2,20 kW	3,00 kW	4,00 kW	4,00 kW	5,50 kW	7,50 kW
20-15		●	●												
40-40-S				●	●	●									
40-40-L						●	●	●							
50-40-S									●	●	●				
50-40-L										●	●	●			
65-50													●	●	●
speciale motor	C	130	130	188	188	220	220	259	259	259	259	259	259	259	259
dimensions	f	87	87	140	140	150	150	160	163	163	173	173	197	217	217
	K	179,5	205,5	210	210	233,5	268,5	281	281	281	312,5	333	333	374	374
	y	101	101	111	111	120	120	140	140	140	166	177	177	202	202

Further dimensions see motor data sheet!

