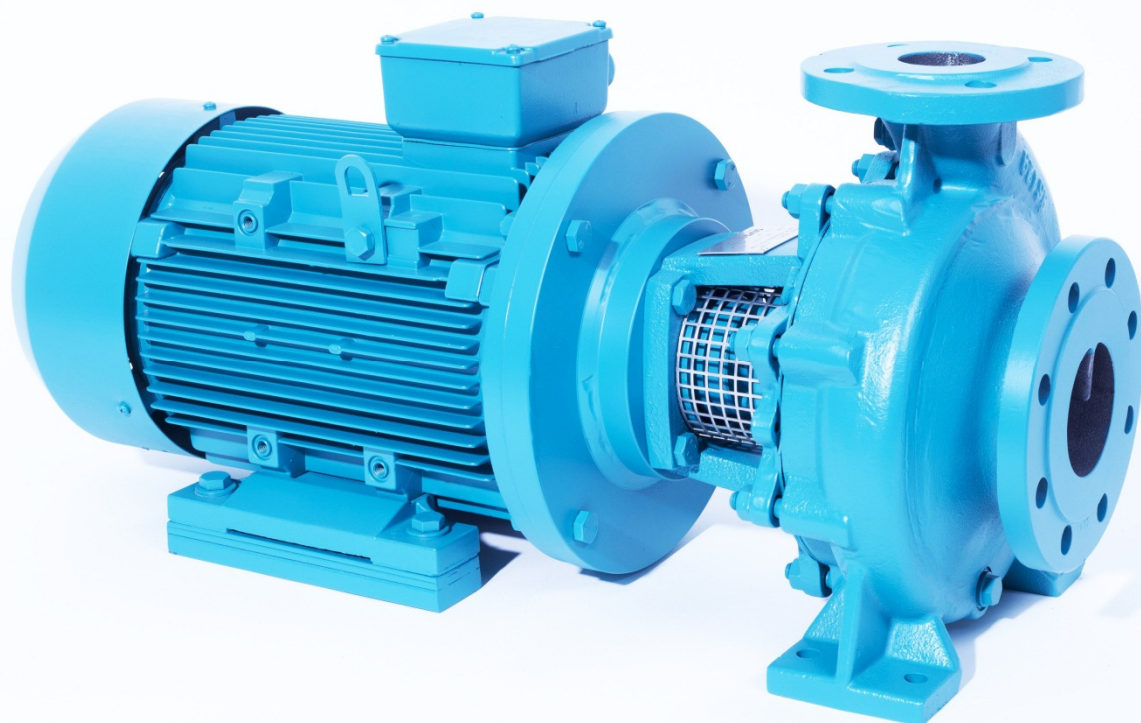




Volute casing pumps in
bloc design

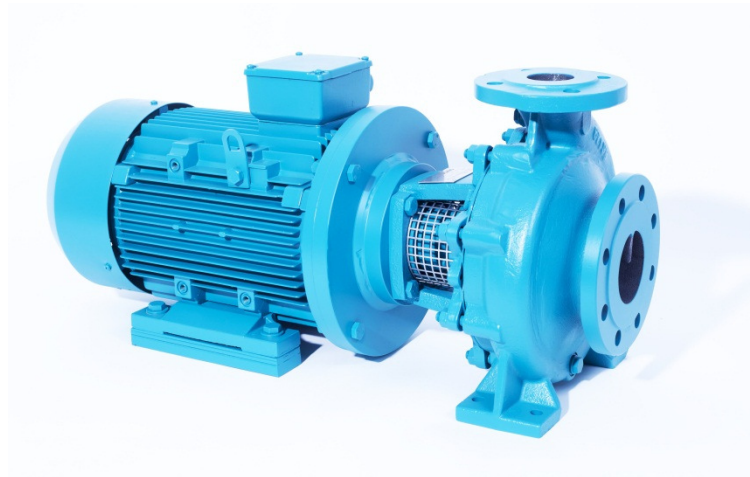
NCB

INDUSTRY APPLICATION

Horizontal, single-stage volute casing pumps blocked with an IEC-norm engine – nominal duty points and main dimensions in accordance with DIN 24256 – EN 22585 – are used for pumping clean and low contaminated liquids without coarse or extended solids.

Application ranges:

- Chemical and petrochemical industry to pump acids, lyes, brine and hydrocarbon fluids
- Colors and lacquer industry
- Plastic and rubber industry
- Iron and steel industry
- Food industry



PROPERTIES AND ADVANTAGES

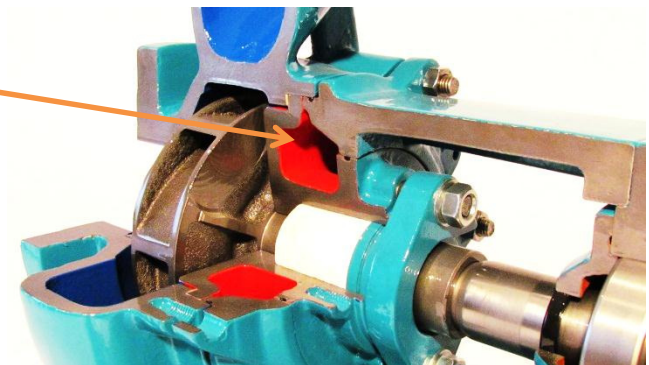
- **Robust construction** made of cast iron or special steel casting

- **Adaption of working point**

At the factory the performance curve is adapted to the system operation point according to customer specifications.

- **Heating**

Behind the pump cover an area for heating or cooling of the pump is provided. This area may be activated by insertion of two o-rings.



- **Shaft sealing**

Following shaft sealings can be chosen:

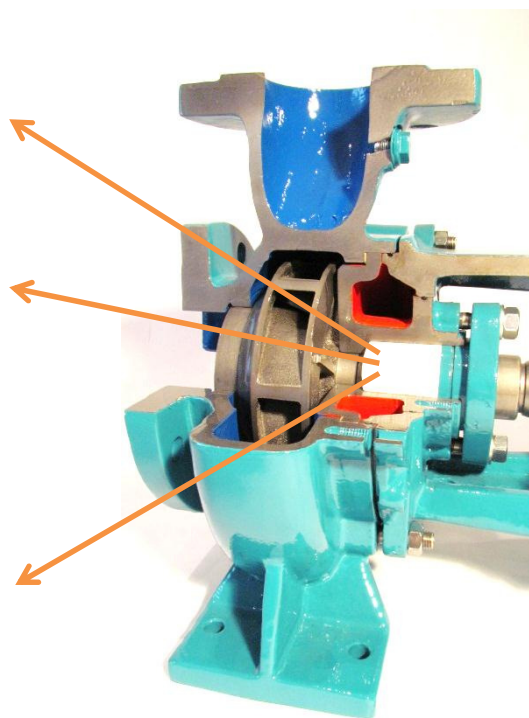
Single- or double mechanical seal (in tandem- or “back to back”- execution)



Packing gland

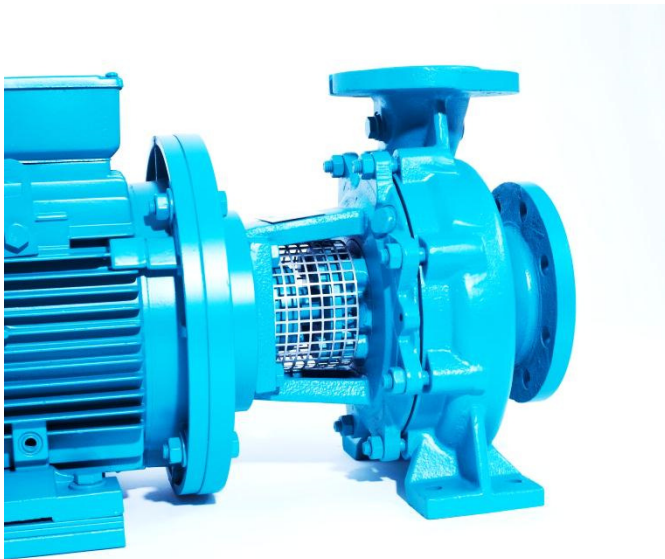


Magnetic coupled without shaft sealing



Depending on the pumped liquid different seal-materials can be selected.

- **Compact construction**



Ideal for applications where the spatial conditions are limited. The space-saving, short-coupled monobloc pump is very flexible and can be used variably. The pump is mounted directly on an IEC standard electric motor. User-friendly, flexible, secure and space saving.

- **Maintenance**

Easy maintenance and repair work without dismantling the piping. Expansion of the plug-in unit by disassembling of the casing screws is possible.

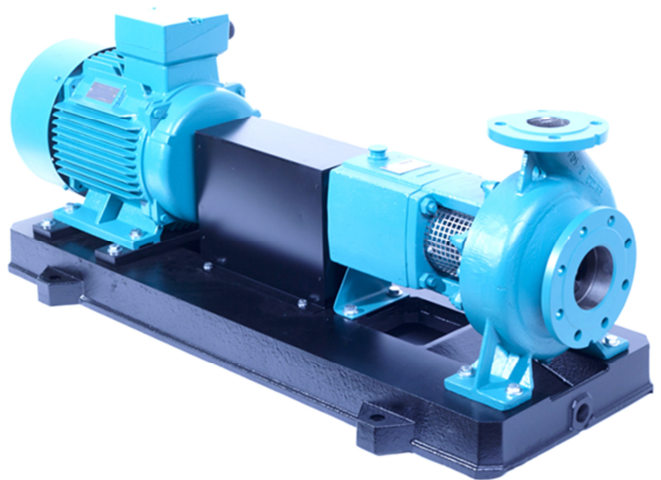
- **ATEX-version**

Pumps and pump-units can be certificated for ATEX. For the available designs, materials and the possible accessories please contact our sales department.

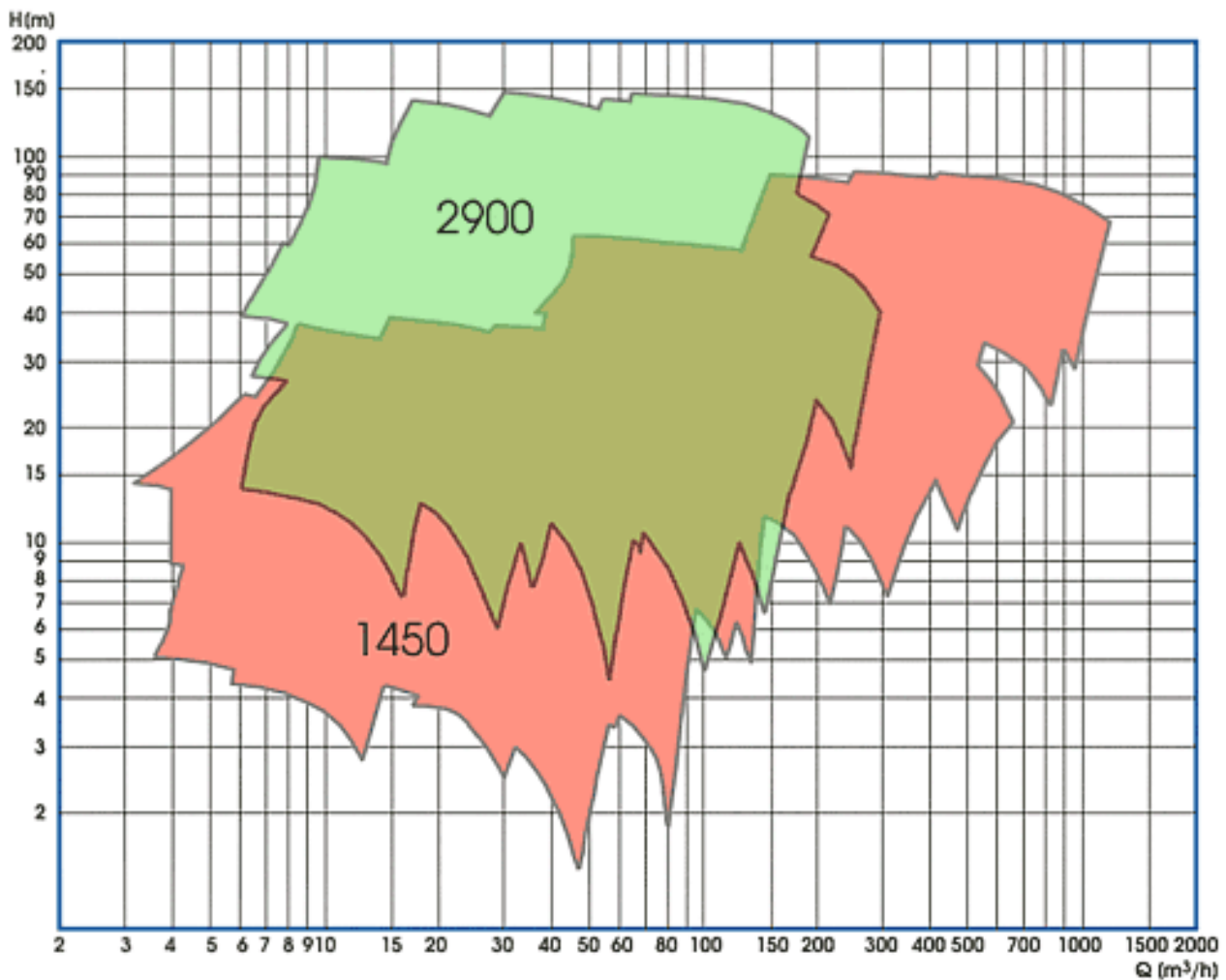


- **Long-coupled execution NC**

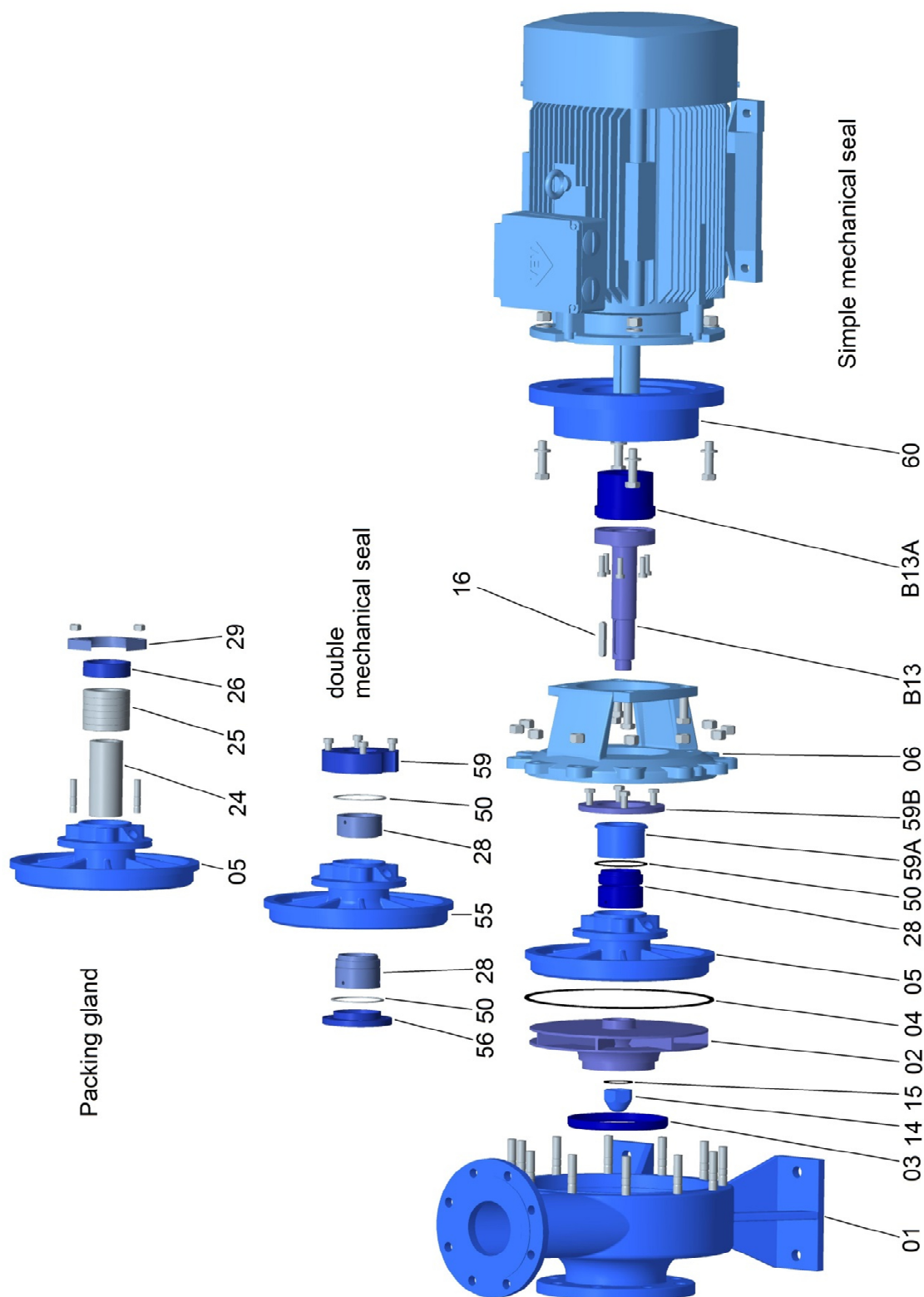
Not all sizes of the volute casing pumps are available in monobloc design. The long coupled pump with bearing casing and free shaft end, mounted on a base plate with elastic coupling (with disassembling device) and IEC norm motor can comply the complete range of our chemical pumps. Details are provided in a separate folder.



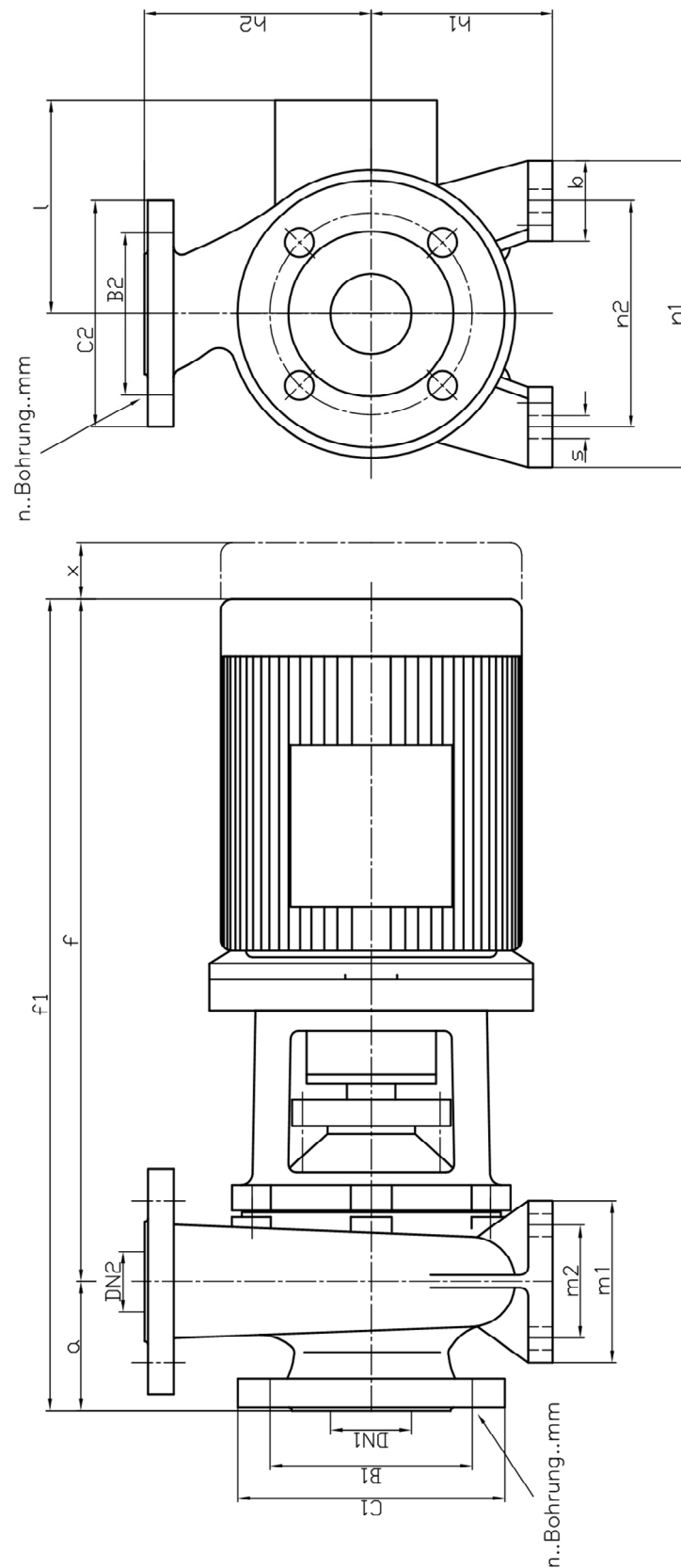
PUMP SELECTION – CHARACTERISTIC DIAGRAM



EXPLODED VIEW



DIMENSIONS



2900 min-1

	Type	E-Motor		Dimensions in mm																				
Nr.	2900 min-1	kW	A	DN1	C1	B1	n	DN2	C2	B2	n	a	f	f1	h1	h2	b	m1	m2	n1	n2	s	l	x
1	32/125-0,75/2	0,75	2,2	50	165	125	4	32	140	100	4	80	414	494	112	140	50	70	100	190	140	13	137	100
1	32/125-1,1/2	1,1	2,8	50	165	125	4	32	140	100	4	80	414	494	112	140	50	70	100	190	140	13	137	100
1	32/125-1,5/2	1,5	3,7	50	165	125	4	32	140	100	4	80	417	497	112	140	50	70	100	190	140	13	150	100
2	32/160-2,2/2	2,2	5,3	50	165	125	4	32	140	100	4	80	442	522	132	160	50	70	100	240	190	13	150	100
2	32/160-3,0/2	3	7,3	50	165	125	4	32	140	100	4	80	484	564	132	160	50	70	100	240	190	13	154	100
3	32/200-4,0/2	4	9,3	50	165	125	4	32	140	100	4	80	505	585	160	180	50	70	100	240	190	13	166	100
3	32/200-5,5/2	5,5	12	50	165	125	4	32	140	100	4	80	598	678	160	180	50	70	100	240	190	13	205	100
4	32/250-7,5/2	7,5	16	50	165	125	4	32	140	100	4	100	605	705	180	225	65	95	126	320	260	13	205	100
4	32/250-11/2	11	22	50	165	125	4	32	140	100	4	100	695	795	180	225	65	95	126	320	260	13	205	130
7	40/200-5,5/2	5,5	12	65	185	145	4	40	150	110	4	100	598	698	160	180	50	70	100	265	212	13	205	100
7	40/200-7,5/2	7,5	16	65	185	145	4	40	150	110	4	100	598	698	160	180	50	70	100	265	212	13	205	100
7	40/200-11/2	11	22	65	185	145	4	40	150	110	4	100	688	788	160	180	50	70	100	265	212	13	205	130
8	40/250-11/2	11	22	65	185	145	4	40	150	110	4	100	695	795	180	225	65	95	125	320	250	13	205	130
8	40/250-15/2	15	30	65	185	145	4	40	150	110	4	100	695	795	180	225	65	95	125	320	250	13	266	130
9	40/215-15/2	15	30	65	185	145	4	40	150	110	4	125	695	820	200	250	65	95	125	345	280	13	266	130
5	50/125-1,5/2	1,5	3,7	65	185	145	4	50	165	125	4	80	417	497	112	140	50	70	100	210	160	13	150	100
5	50/125-2,2/2	2,2	3,5	65	185	145	4	50	165	125	4	80	442	522	112	140	50	70	100	210	160	13	150	100
5	50/125-3,0/2	3	7,3	65	185	145	4	50	165	125	4	80	484	564	115	140	50	70	100	210	160	13	154	100
6	50/160-4,0/2	4	9,3	65	185	145	4	50	165	125	4	80	505	585	132	160	50	70	100	240	190	13	166	100
12	50/200-7,5/2	7,5	16	80	200	160	8	50	165	125	4	100	598	698	160	200	50	70	100	265	212	13	205	100
12	50/200-11/2	11	22	80	200	160	8	50	165	125	4	100	688	788	160	200	50	70	100	265	212	13	205	130
12	50/200-15/2	15	30	80	200	160	8	50	165	125	4	100	688	788	160	200	50	70	100	265	212	13	205	130
13	50/250-18,5/2	18,5	36	80	200	160	8	50	165	125	4	125	775	900	180	225	65	95	125	320	250	13	274	130
13	50/250-22/2	22	42	80	200	160	8	50	165	125	4	125	773	898	180	225	65	95	125	320	250	13	274	130
13	50/250-30/2	30	55	80	200	160	8	50	165	125	4	125	936	1061	180	225	65	95	125	320	250	13	540	130
10	65/125-2,2/2	2,2	5,3	80	200	160	8	65	185	145	4	100	442	542	132	160	50	70	100	240	190	13	150	100
10	65/125-4,0/2	4	9,3	80	200	160	8	65	185	145	4	100	505	605	132	160	50	70	100	240	190	13	166	100
10	65/125-5,5/2	5,5	12	80	200	160	8	65	185	145	4	100	598	698	132	160	50	70	100	240	190	13	205	100
11	65/160-7,5/2	7,5	16	80	200	160	8	65	185	145	4	100	598	698	160	180	50	70	100	265	212	13	205	100
11	65/160-11/2	11	22	80	200	160	8	65	185	145	4	100	688	788	160	180	50	70	100	265	212	13	205	130
17	65/200-15/2	15	30	100	200	180	8	65	185	145	4	100	695	795	180	225	65	95	125	320	250	13	266	130
17	65/200-18,5/2	18,5	36	100	200	180	8	65	185	145	4	100	775	875	180	225	65	95	125	320	250	13	266	130
17	65/200-22/2	22	42	100	200	180	8	65	185	145	4	100	773	873	180	225	65	95	125	320	250	13	274	130
18	65/250-30/2	30	55	100	200	180	8	65	185	145	4	125	958	1083	200	250	80	120	160	360	280	18	540	130
15	80/125-5,5/2	5,5	12	100	200	180	8	80	200	160	8	100	598	698	160	180	65	95	125	280	212	13	205	100
15	80/125-7,5/2	7,5	16	100	200	180	8	80	200	160	8	100	598	698	160	180	65	95	125	280	212	13	205	100
20	80/160-7,5/2	7,5	16	100	200	180	8	80	200	160	8	100	605	705	180	200	65	95	125	280	212	13	205	100
20	80/160-11/2	11	22	100	200	180	8	80	200	160	8	100	695	795	180	200	65	95	125	280	212	13	205	130
21	80/200-18,5/2	18,5	36	125	250	210	8	80	200	160	8	125	775	900	180	250	65	95	125	345	280	13	266	130
21	80/200-22/2	22	42	125	250	210	8	80	200	160	8	125	773	898	180	250	65	95	125	345	280	13	274	130
21	80/200-30/2	30	55	125	250	210	8	80	200	160	8	125	936	1061	180	250	65	95	125	345	280	13	540	130
26	100/200-30/2	30	55	125	250	210	8	100	200	180	8	125	936	1061	200	280	80	120	160	360	280	18	540	130

1450 min-1

Type		E-Motor		Dimensions in mm																					
Nr.	1450 min-1	kW	A	DN1	C1	B1	n	DN2	C2	B2	n	a	f	f1	h1	h2	b	m1	m2	n1	n2	s	l	x	
1	32/125-0,25/4	0,25	0,9	50	165	125	4	32	140	100	4	80	389	469	112	140	50	70	100	190	140	13	127	100	
1	32/125-0,37/4	0,37	1,2	50	165	125	4	32	140	100	4	80	389	469	112	140	50	70	100	190	140	13	127	100	
2	32/160-0,55/4	0,55	1,7	50	165	125	4	32	140	100	4	80	414	494	132	160	50	70	100	240	190	13	137	100	
2	32/160-0,75/4	0,75	2,2	50	165	125	4	32	140	100	4	80	414	494	132	160	50	70	100	240	190	13	137	100	
3	32/200-0,55/4	0,55	1,2	50	165	125	4	32	140	100	4	80	414	494	160	180	50	70	100	240	190	13	137	100	
3	32/200-0,75/4	0,75	2,2	50	165	125	4	32	140	100	4	80	414	494	160	180	50	70	100	240	190	13	137	100	
4	32/250-1,1/4	1,1	2,8	50	165	125	4	32	140	100	4	100	463	563	180	225	65	95	126	320	260	13	150	100	
4	32/250-1,5/4	1,5	3,7	50	165	125	4	32	140	100	4	100	488	588	180	225	65	95	126	320	260	13	150	100	
7	40/200-0,75/4	0,75	2,2	65	185	145	4	40	150	110	4	100	414	514	160	180	50	70	100	265	212	13	137	100	
7	40/200-1,1/4	1,1	2,8	65	185	145	4	40	150	110	4	100	418	518	160	180	50	70	100	265	212	13	150	100	
8	40/250-1,5/4	1,5	3,7	65	185	145	4	40	150	110	4	100	488	588	180	225	65	95	125	230	250	13	150	100	
8	40/250-2,2/4	2,2	5,3	65	185	145	4	40	150	110	4	100	535	635	180	225	65	95	125	230	250	13	154	100	
9	40/315-2,2/4	2,2	5,3	65	185	145	4	40	150	110	4	125	535	660	200	250	65	95	125	345	280	13	154	100	
9	40/315-3/4	3	7,3	65	185	145	4	40	150	110	4	125	535	660	200	250	65	95	125	345	280	13	154	100	
9	40/315-4/4	4	9,3	65	185	145	4	40	150	110	4	125	556	681	200	250	65	95	125	345	280	13	166	100	
5	50/125-0,55/4	0,55	1,2	65	185	145	4	50	165	125	4	80	389	469	112	140	50	70	100	210	160	13	127	100	
6	50/160-0,55/4	0,55	1,7	65	185	145	4	50	165	125	4	80	414	494	132	160	50	70	100	240	190	13	137	100	
6	50/160-0,75/4	0,75	2,2	65	185	145	4	50	165	125	4	80	414	494	132	160	50	70	100	240	190	13	137	100	
12	50/200-1,1/4	1,1	2,8	80	200	160	8	50	165	125	4	100	418	518	160	200	50	70	100	265	212	13	150	100	
12	50/200-1,5/4	1,5	3,7	80	200	160	8	50	165	125	4	100	443	543	160	200	50	70	100	265	212	13	150	100	
12	50/200-2,2/4	2,2	5,3	80	200	160	8	50	165	125	4	100	490	590	160	200	50	70	100	265	212	13	154	100	
13	50/250-2,2/4	2,2	5,3	80	200	160	8	50	165	125	4	125	535	660	180	225	65	95	125	320	250	13	154	100	
13	50/250-3/4	3	7,3	80	200	160	8	50	165	125	4	125	535	660	180	225	65	95	125	320	250	13	154	100	
14	50/315-4/4	4	9,3	65	185	145	4	50	165	125	4	125	556	681	225	280	65	95	125	345	280	13	166	100	
14	50/315-5,5/4	5,5	12	65	185	145	4	50	165	125	4	125	660	785	225	280	65	95	125	345	280	13	205	100	
10	65/125-0,55/4	0,55	1,7	80	200	160	8	65	185	145	4	100	414	514	132	160	50	70	100	240	190	13	137	100	
10	65/125-0,75/4	0,75	2,2	80	200	160	8	65	185	145	4	100	414	514	132	160	50	70	100	240	190	13	137	100	
11	65/160-1,1/4	1,1	2,8	80	200	160	8	65	185	145	4	100	418	518	160	180	50	70	100	265	212	13	150	100	
17	65/200-1,5/4	1,5	3,7	100	200	180	8	65	185	145	4	100	492	592	180	225	65	95	125	320	250	13	150	100	
17	65/200-2,2/4	2,2	5,3	100	200	180	8	65	185	145	4	100	533	633	180	225	65	95	125	320	250	13	154	100	
17	65/200-3/4	3	7,3	100	200	180	8	65	185	145	4	100	533	633	180	225	65	95	125	320	250	13	154	100	
18	65/250-4/4	4	9,3	100	200	180	8	65	185	145	4	125	554	679	200	250	80	120	160	360	280	18	166	100	
18	65/250-5,5/4	5,5	12	100	200	180	8	65	185	145	4	125	597	722	200	250	80	120	160	360	280	18	205	100	
19	65/315-7,5/4	7,5	16	100	200	180	8	65	185	145	4	125	652	777	225	280	80	120	160	400	315	18	205	100	
19	65/315-11/4	11	23	100	200	180	8	65	185	145	4	125	797	922	225	280	80	120	160	400	315	18	266	130	
15	80/125-0,75/4	0,75	1,2	100	200	180	8	80	200	160	8	100	414	514	160	180	65	95	125	280	212	13	137	100	
15	80/125-1,1/4	1,1	2,8	100	200	180	8	80	200	160	8	100	418	518	160	180	65	95	125	280	212	13	150	100	
20	80/160-1,5/4	1,5	3,7	100	200	180	8	80	200	160	8	100	488	588	180	200	65	95	125	280	212	13	150	100	
21	80/200-2,2/4	2,2	5,3	125	250	210	8	80	200	160	8	125	529	654	180	250	65	95	125	345	280	13	154	100	
21	80/200-3/4	3	7,3	125	250	210	8	80	200	160	8	125	529	654	180	250	65	95	125	345	280	13	154	100	
21	80/200-4/4	4	9,3	125	250	210	8	80	200	160	8	125	556	681	180	250	65	95	125	345	280	13	166	100	
22	80/250-5,5/4	5,5	12	125	250	210	8	80	200	160	8	125	597	722	225	280	80	120	160	400	315	18	205	100	
22	80/250-7,5/4	7,5	16	125	250	210	8	80	200	160	8	125	652	777	225	280	80	120	160	400	315	18	205	100	
23	80/315-11/4	11	23	125	250	210	8	80	200	160	8	125	797	922	250	315	80	120	160	400	315	18	266	130	
23	80/315-15/4	15	31	125	250	210	8	80	200	160	8	125	797	922	250	315	80	120	160	400	315	18	266	130	
26	100/200-3/4	3	7,3	125	250	210	8	100	200	180	8	125	535	660	200	280	80	120	160	360	280	18	154	100	
26	100/200-4,0/4	4	9,3	125	250	210	8	100	200	180	8	125	556	681	200	280	80	120	160	360	280	18	166	100	
26	100/200-5,5/4	5,5	12	125	250	210	8	100	200	180	8	125	605	730	200	280	80	120	160						



Basic data:

Capacity:	up to 500 m ³ /h
Discharge head:	up to 158 m W.S.
Connections:	DN 32 – DN 200
Motor speed:	1450 und 2900 min ⁻¹