

Volute Casing Pumps Z-line

Type ZLND 32125 . . . 200250



Technical Data

Flow:	max. 740 m ³ /h
Head:	max. 140 m
Speed:	max. 3600 rpm
Material:	cast iron (0B, 0C, 0E), spheroidal cast iron(1B) and stainless steel (4B)
Temperature:	max. 170 °C depending on the shaft sealing and material execution. (Hot water* up to 140°C)
Casing Pressure:	material design 4B PN 16 0B, 0C, 0E, 1B PN 16 / 10 ¹
Shaft sealing:	mechanical seal or stuffing box
Flange Connections:	material design 4B DIN 2501 PN 16 0B, 0C, 0E, 1B DIN 2501 PN 16
Direction of rotation:	clockwise when looking at the pump from the drive end.

Application

Volute casing pumps of the ZLN range (meeting DIN 24255 / EN 733 and ISO 9908) are used when clear or turbid liquids free from solid particles are to be pumped. Application areas for pumps in this range include:

- Automobile, mechanical and general engineering industries
- Food and beverage industry
- Pharmaceutical industry
- Paint industry
- Plastic and rubber industry
- Iron and non-ferrous metal industry
- Paper and pulp industry
- Textile industry
- Building and construction industry
- Heating and air conditioning
- Drainage
- Water supply
- Irrigation

A range of materials is available to meet the specific needs of customers.

* Water quality according to VdTV 1466; additional requirement: O₂ (oxygen) < 0.02 mg/l

1) For 200250

2) From 80400 to 200250

Design

Horizontal, single-stage volute casing pumps with connections and main dimensions to DIN 24255 / EN 733, plus 9 additional sizes. The design of the pump allows the complete drive unit to be withdrawn from the casing without disturbing the attached pipe work. If a spacer type coupling is used, it is also unnecessary to disconnect the motor.

The range covers 38 sizes with only 3 different bearing brackets.

Construction

Casing pressure:

Material 4B: max 16 bar from - 40°C to +120°C max
14 bar from 120°C up to +170°C

Material 0B, 0C, 0E, 1B: max 16/10¹ bar from - 20°C to +120°C max
14/9² bar from 120°C up to +170°C

Max. casing pressure= inlet pressure + delivery head at zero flow

Please note: The relevant technical regulations and safety rules must be observed.

Flanges location:

Axial suction flange, discharge flange radially upwards.

Flanges:

Material design 4B: Complies with DIN 2543 PN 16
Material design 0B, 0C, 0E, 1B: DIN 2533 PN 16
Flanges drilled according to ANSI 150 can be supplied.

Bearings:

Bearing brackets 25, 35 and 45: Two ball bearings, lifetime greased (2Z), design code G, or oil lubrication, design code A.

Shaft sealing (Stuffing box and single mechanical seal)

Code 041: Self-sealed, uncooled packing rings

Code 052: Uncooled packing rings, external sealing liquid

Code B27: Unbalanced bellows mechanical seal, seal face materials WC/Carbon, elastomer EPDM

Code X6S: Unbalanced bellows mechanical seal, seal face materials SiC/Carbon, elastomer EPDM

Code X6G: Unbalanced bellows mechanical seal, seal face materials SiC/Carbon, elastomer EPDM

Code X6V: Unbalanced bellows mechanical seal, seal face materials SiC/ SiC, elastomer FPM (Viton)

Code X6J: Unbalanced bellows mechanical seal, seal face materials SiC/ SiC, elastomer FPM (Viton)

Code X6U: Unbalanced bellows mechanical seal, seal facematerials SiC/Carbon, elastomer FPM (Viton)

Code X6H: Unbalanced bellows mechanical seal, seal facematerials SiC/Carbon, elastomer FPM (Viton)

Code AH3: Balanced mechanical seal, seal face materials SiC/Carbon, elastomer EPDM

Code AHS: Balanced mechanical seal, seal face materials SiC/ SiC, elastomer FPM (Viton)

Code AHK: Balanced mechanical seal, seal face materials SiC/carbon, elastomer FFKM (Kalrez)

Code AHJ: Balanced mechanical seal, seal face materialsSiC/carbon, elastomer FPM (Viton)

Codes AR3, ARS, ARK are equivalent to AF3, AFS, AFK AH3, AHS, AHK plus quench

Codes AK3, AKS, AKK are equivalent to AF3, AFS, AFK AH3, AHS, AHK plus heating/cooling

Codes A73, A7S, ARK, A7J are equivalent to AF3, AFS, AFK, AFJ AH3, AHS, AHK, AHJ plus external flushing

As an option, Code 051 (as 052, but with inlet and outlet) and other sealing execution can be supplied on request.

Shaft sealing (double mechanical seal):

Code M3S: Double mechanical seal in tandem arrangement, seal face materials SiC /SiC, elastomer FPM (Viton). Type GNX.

Code Z6M: Double mechanical seal in tandem arrangement, seal face materials SiC / SiC, elastomer FPM (Viton). Type Pacseal 167.

Code X6P: Double mechanical seal in back to back arrangement, seal face materials SiC / SiC, elastomer FPM (Viton). Type Pacseal 167.

Material design:

Item	Component	Material					Construction				
		Mat. N°	DIN denomination	ISO EN denomination	US Material		0B	0C	0E	1B	4B
					ASTM Standard	AISI					
10.20	Volute casing	EN-JL 1040	GG-25	EN-GJL 250	A 278 Cl. 30		x	x	x		
		1.4408	GX6CrNiMo18 10	GX5CrNiMo19-11-2	A 351 CF8M	316					x
		EN-JL1025	GGG-40.3	EN-GJS-400-18-LT	A 395					x	
16.10	Casing cover	EN-JL 1040	GG-25	EN-GJL 250	A 278 Cl. 30		x	x	x		
		1.4408	GX6CrNiMo18 10	GX5CrNiMo19-11-2	A 351 CF8M	316					x
		EN-JL1025	GGG-40.3	EN-GJS-400-18-LT	A 395					x	
21.00	Shaft	1.4021	X20 Cr13	X20 Cr13	A 276 Type 420	420	x	x	x	x	
		1.4401	X5CrNiMo17 12 2	X5CrNiMo17 12 2	A 167 Gr316	316	x*		x*		x
23.00	Impeller	EN-JL 1040	GG-25	EN-GJL 250	A 278 Cl. 30		x			x	
		2.1050	G-CuSn10		B 427 C91600			x			
		1.4408	GX6CrNiMo18 10	GX5CrNiMo19-11-2	A 351 CF8M	316			x		x
33.00	Bearing bracket	EN-JL 1040	GG-25	EN-GJL 250	A 278 Cl. 30		x	x	x	x	x
52.40	Shaft sleeve / Stuffing box	1.4021	X 20 Cr13	X 20 Cr13	A 276 Type 420	420	x	x	x	x	
		1.4401	X5CrNiMo17 12 2	X5CrNiMo17 12 2	A 167 Gr316	316					x
46.10	Shaft seal / Stuffing box	Soft packing					x	x	x	x	x
43.30	Single mechanical seal	Silicon Carbide / Carbon EPDM or Viton (See other options)					x	x	x	x	x
43.31	Inboard mechanical seal	Silicon Carbide / Carbon EPDM or Viton (See other options)					x	x	x	x	x
43.32	Outboard mechanical seal	Silicon Carbide / Carbon EPDM or Viton (See other options)					x	x	x	x	x

*For shaft sealing double mechanical seal

Casing gasket:

The casing is sealed by means of a confined flat gasket of EWP 210 material. Code of this design: 2

The casing is sealed by means of a confined flat gasket of PTFE. Code of this design: 4

Motor Power:

Using commercial electric motors, type of construction IM B3.

To determine the drive power we recommend the following safety margin:

Up to 4 kW: 25%

4 to 7,5 kW: 20%

above 7,5 kW: 15%

The following speeds must not be exceeded:

Size	max. speed rpm	Size	max. speed rpm	Size	max. speed rpm
32125, 32160	3600	32250	3000	40315 ³ , 50315 ³	1800
32200, 40125		40250		65315, 80315	
40160, 40200		50250		80400, 100315	
50125, 50160		65250		100400, 125250	
50200, 65125		80250		125315, 125400	
65160, 65200 ¹		100250 ²		150200, 150250 ⁴	
80160 ¹ , 80200		125200 ²		150315, 150400	
100160, 100200				200250	

1) In material design 4B max. speed 3000 rpm

2) In material design 4B max. speed 1800 rpm

3) In material design 0E, and 4B max. speed 3000 rpm

4) In material design 4B max. speed 1500 rpm

The max. speeds are derived from the permissible shaft loads and the permissible peripheral speeds of the impellers

Bearing bracket / pump size:

Bracket 25	32125 32160 32200 32250 40125 40160 40200 40250 50125 50160 50200 50250 65125 65160 65200 80160
Bracket 35	40315 50315 65250 65315 80200 80250 80315 100160 100200 100250 100315 125200 125250 150200 150250
Bracket 45	80400 100400 125315 125400 150315 150400 200250

General comments:

For horizontal volute pumps in CLOSE COUPLED construction with STANDARD motor for nominal performances and flange connections as per EN 733 refer to our series **ZLK**.

For INLINE pumps with the same drive unit, consisting of bearing bracket with bearing, stub shaft and mechanical seal, casing cover, impeller and impeller nut, refer to our series **ZLI** (supplied also with magnetic drive).

For equipping hot media systems a complete programme is available for a flow range between 1-740m³/h consisting of the range:

ZTN volute pumps to EN 733 design with base plate, t_{max} 350°C PN 16. Heat transfer oil.

ZTK volute pumps to EN 733 close coupled design, t_{max} 350°C PN 16. Heat transfer oil.

ZTI volute pumps to EN 733 as INLINE construction, t_{max} 350°C PN 16. Heat transfer oil.

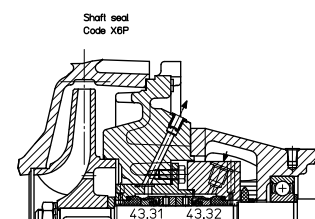
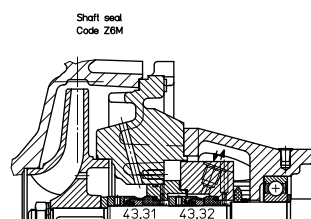
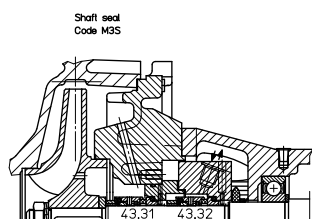
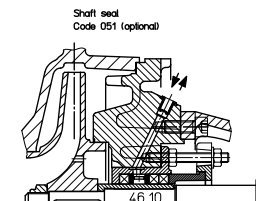
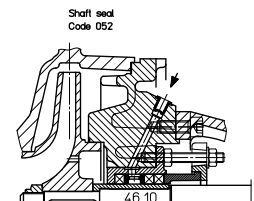
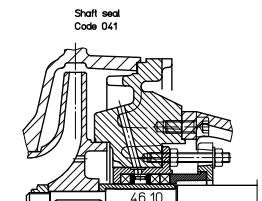
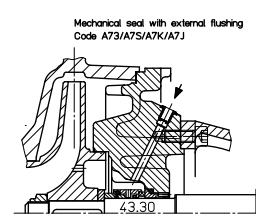
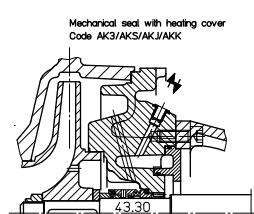
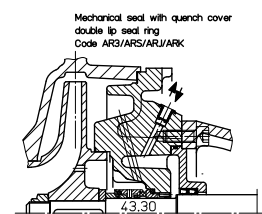
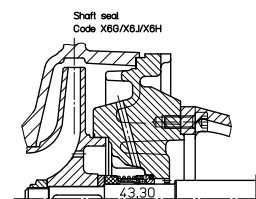
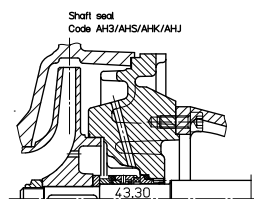
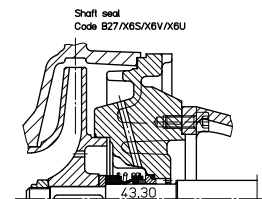
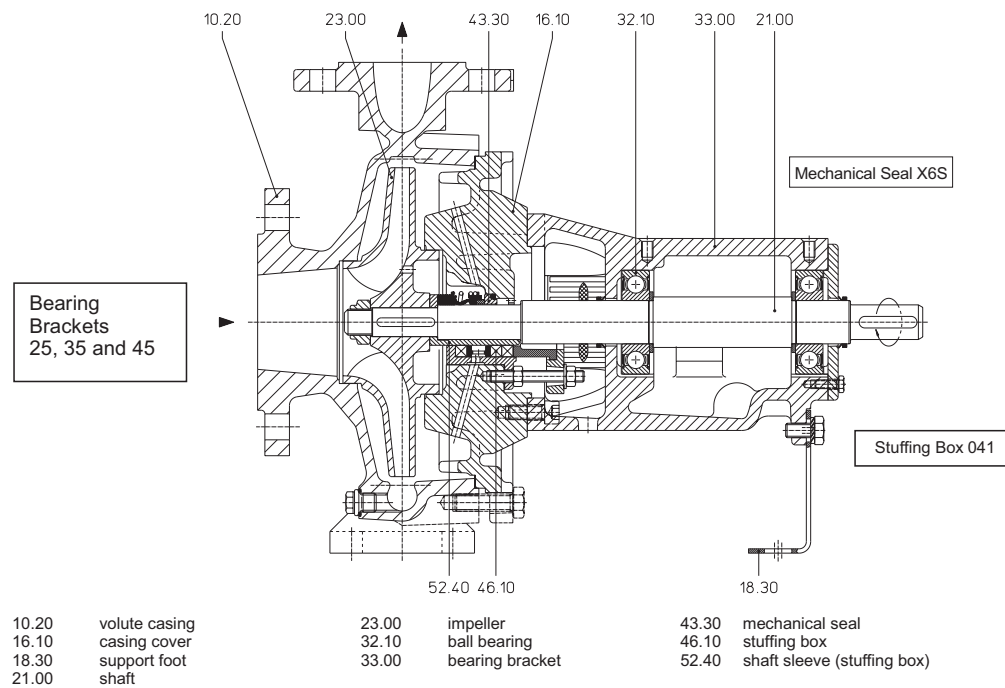
ZEN volute pumps to EN 22858, t_{max} 230°C PN 40. Hot water design.

ZDN volute pumps to EN 22858, t_{max} 207°C PN 25. Hot water design.

ZHN volute pumps to EN 733, t_{max} 180°C PN 16. Hot water design.

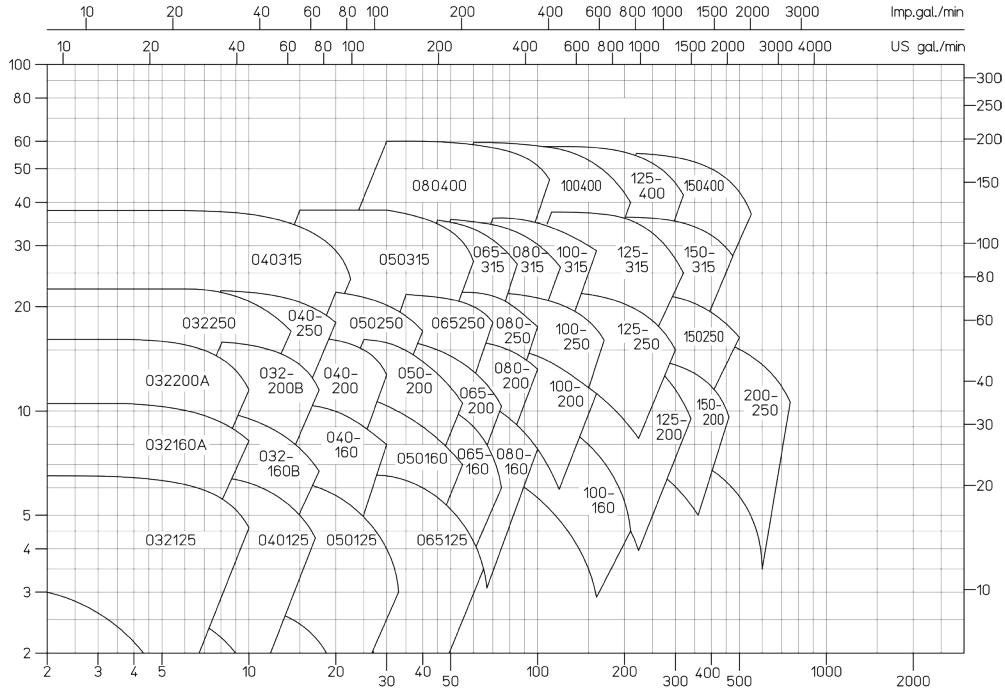
ZDI volute pumps to EN 733 as INLINE construction, t_{max} 150°C PN 25. Hot water design.

Sectional Drawing and Nomenclature

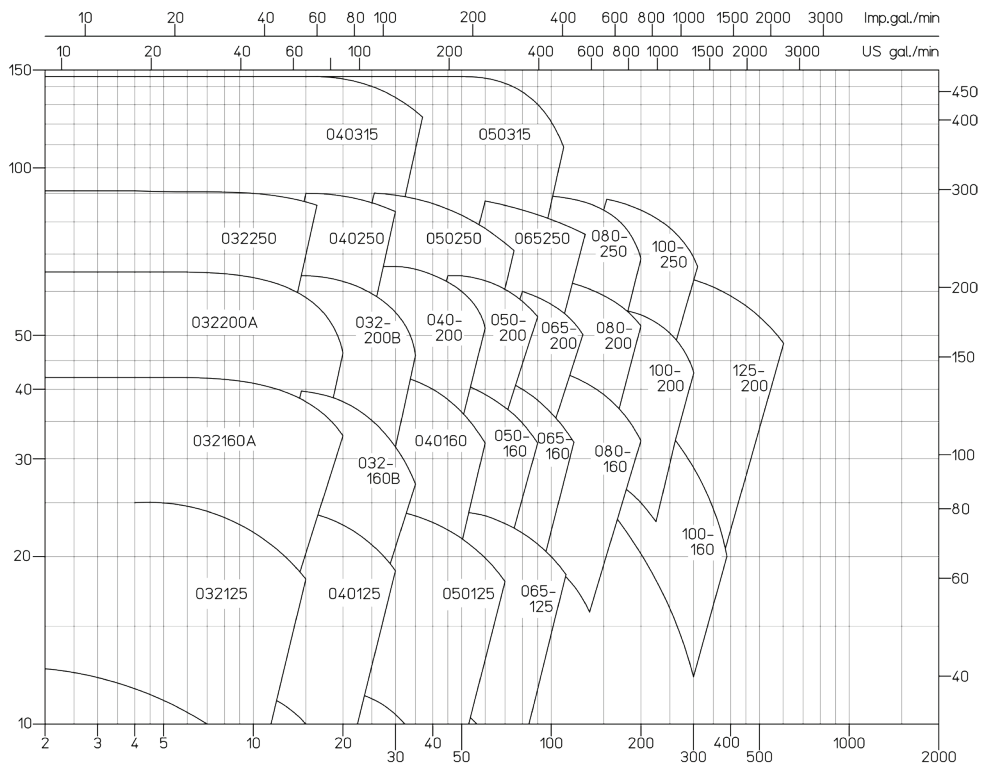


Performance Graph 50 Hz

n = 1450 rpm

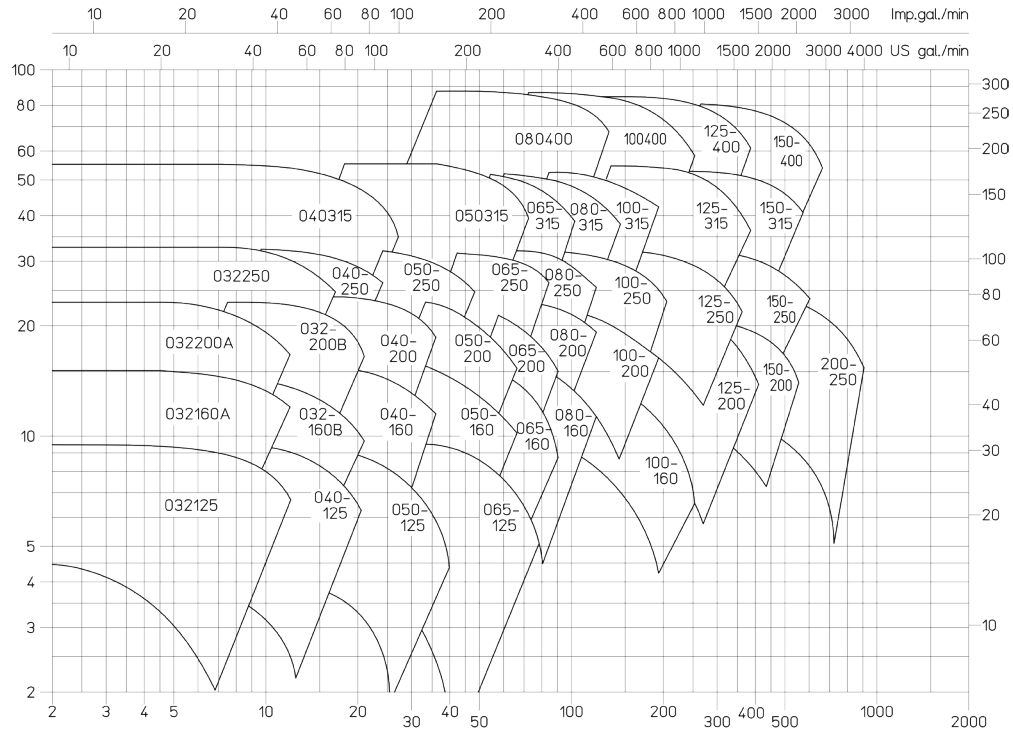


n = 2900 rpm



Performance Graph 60 Hz

n = 1750 rpm



n = 3500 rpm

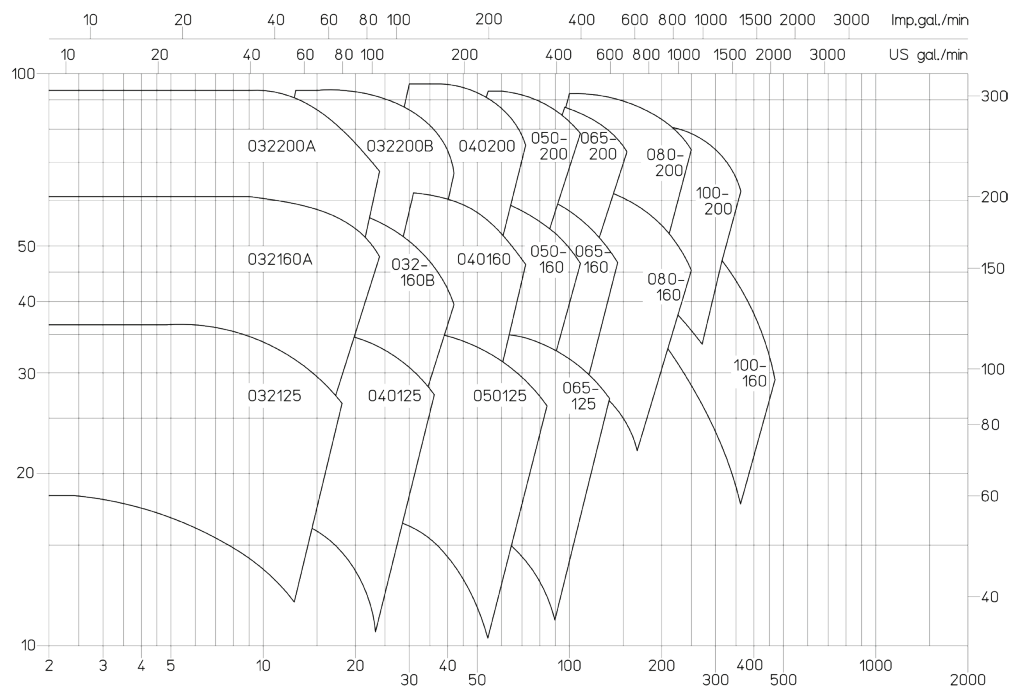
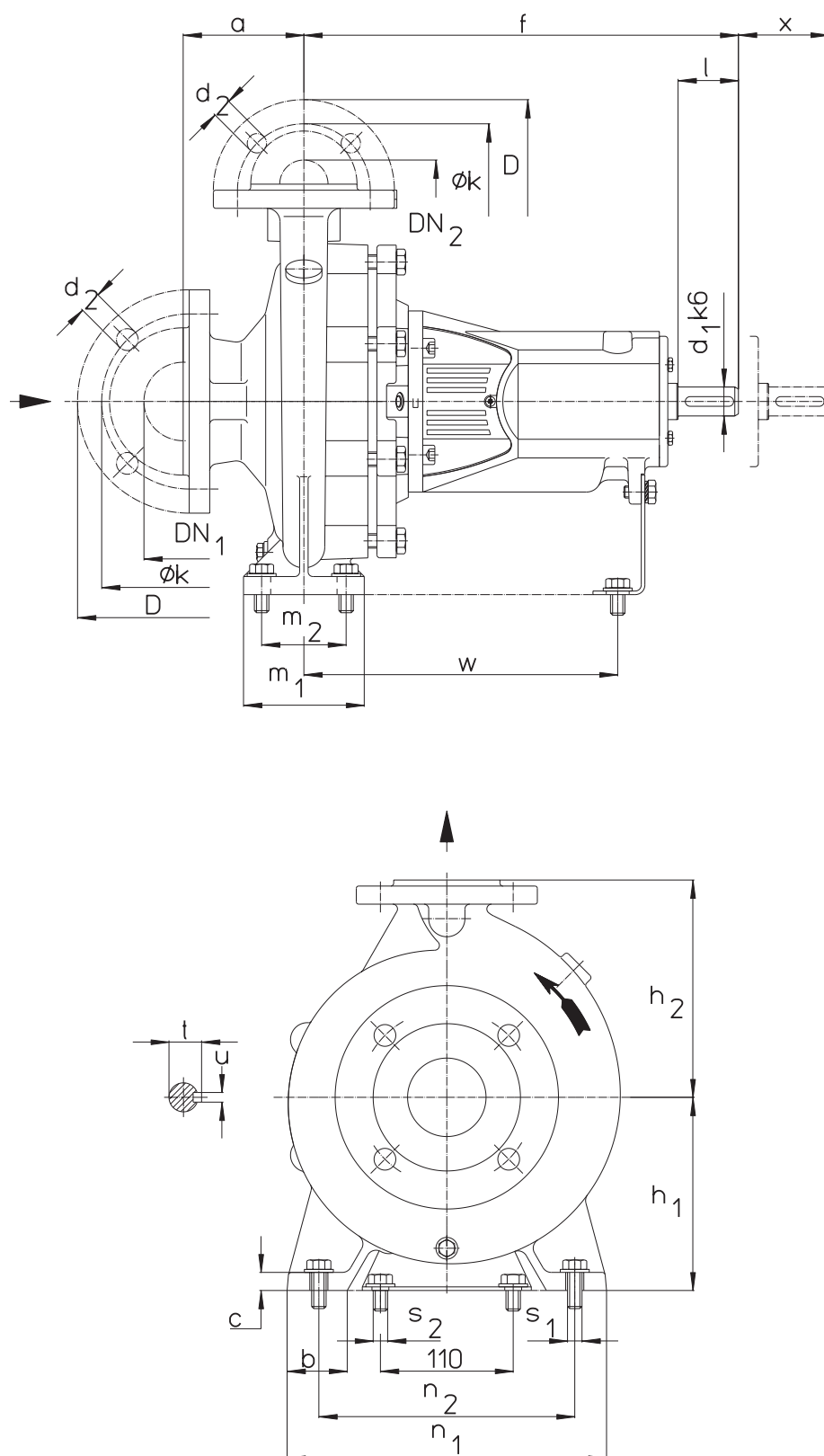


Table of Dimensions



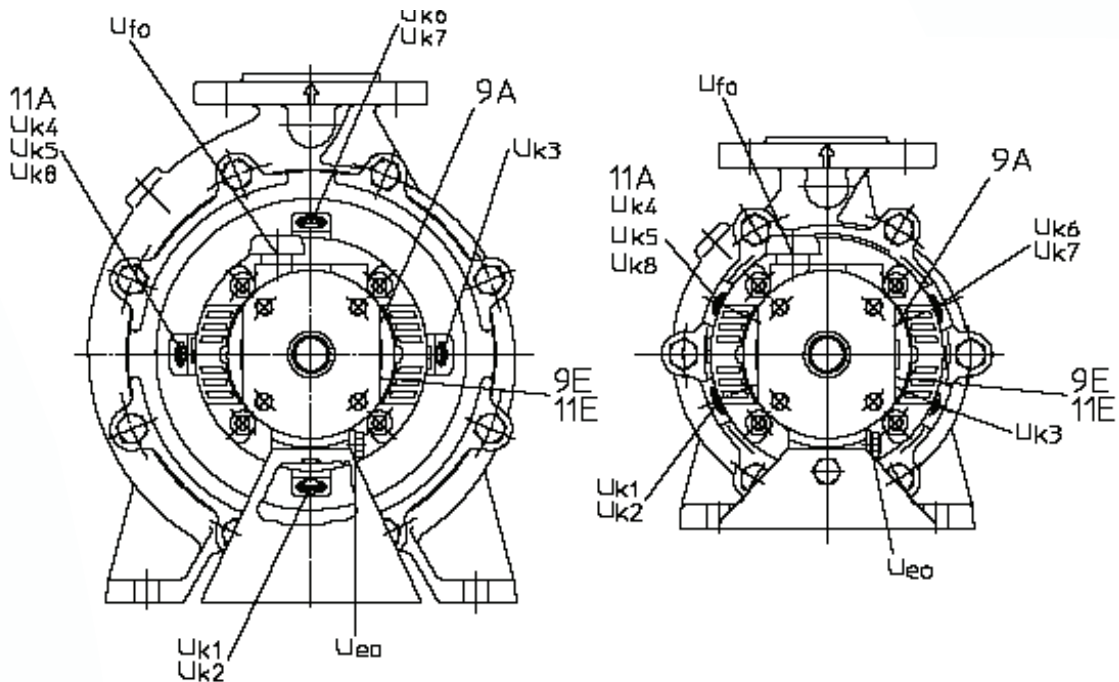
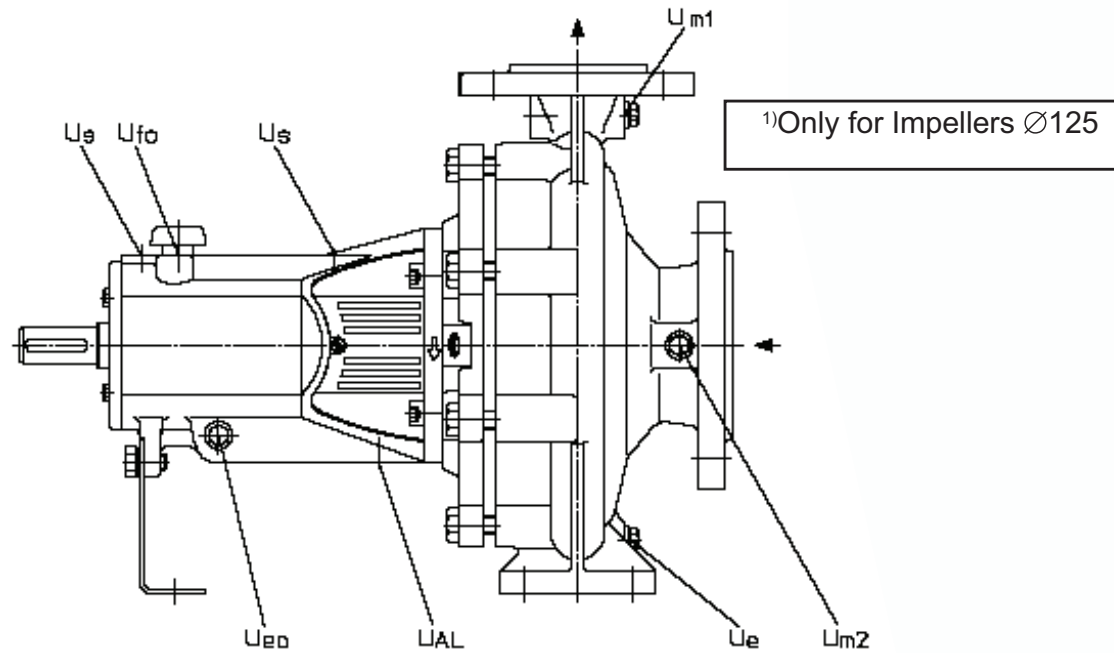
Size	BB	Pump dimensions							Foot dimensions							Shaft end					
		DN ₂	DN ₁	a	f	h1	h2	b	c	m1	m2	n1	n2	s1*	s2*	w	x	d ₁	l	t	u
32125	25	32	50	80	360	112	140	50	15	100	70	190	140	M12	M12	260	100	24	50	27	8
32160	25	32	50	80	360	132	160	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8
32200	25	32	50	80	360	160	180	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8
32250 ¹⁾	25	32	50	100	360	180	225	65	15	125	95	320	250	M12	M12	260	100	24	50	27	8
40125	25	40	65	80	360	112	140	50	15	100	70	210	160	M12	M12	260	100	24	50	27	8
40160	25	40	65	80	360	132	160	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8
40200	25	40	65	100	360	160	180	50	15	100	70	265	212	M12	M12	260	100	24	50	27	8
40250	25	40	65	100	360	180	225	65	15	125	95	320	250	M12	M12	260	100	24	50	27	8
40315 ¹⁾	32	40	65	125	470	225	250	65	18	125	95	345	280	M12	M12	340	100	32	80	35	10
50125	25	50	65	100	360	132	160	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8
50160	25	50	65	100	360	160	180	50	15	100	70	265	212	M12	M12	260	100	24	50	27	8
50200	25	50	65	100	360	160	200	50	15	100	70	265	212	M12	M12	260	100	24	50	27	8
50250	25	50	65	100	360	180	225	65	15	125	95	320	250	M12	M12	260	100	24	50	27	8
50315 ¹⁾	35	50	65	125	470	225	280	65	17	125	95	345	280	M12	M12	340	100	32	80	35	10
65125	25	65	80	100	360	160	180	65	15	125	95	280	212	M12	M12	260	100	24	50	27	8
65160	25	65	80	100	360	160	200	65	15	125	95	280	212	M12	M12	260	100	24	50	27	8
65200	25	65	80	100	360	180	225	65	15	125	95	320	250	M12	M12	260	140	24	50	27	8
65250	35	65	80	100	470	200	250	80	15	160	120	360	280	M16	M12	340	140	32	80	35	10
65315	35	65	80	125	470	225	280	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
80160	25	80	100	125	360	180	225	65	15	125	95	320	250	M12	M12	260	140	24	50	27	8
80200	35	80	100	125	470	180	250	65	15	125	95	345	280	M12	M12	340	140	32	80	35	10
80250	35	80	100	125	470	200	280	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
80315	35	80	100	125	470	250	315	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
80400 ¹⁾	45	80	125	125	530	280	355	80	18	160	120	435	355	M16	M12	370	140	42	110	45	12
100160 ¹⁾	35	100	125	125	470	200	280	80	18	160	120	360	280	M16	M12	340	140	32	80	35	10
100200	35	100	125	125	470	200	280	80	18	160	120	360	280	M16	M12	340	140	32	80	35	10
100250	35	100	125	140	470	225	280	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
100315	35	100	125	140	470	250	315	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
100400	45	100	125	140	530	280	355	100	18	200	150	500	400	M20	M12	370	140	42	110	45	12
125200 ¹⁾	35	125	150	140	470	250	315	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
125250	35	125	150	140	470	250	355	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
125315	45	125	150	140	530	280	355	100	18	200	150	500	400	M20	M12	370	140	42	110	45	12
125400	45	125	150	140	530	315	400	100	18	200	150	500	400	M20	M12	370	140	42	110	45	12
150200 ¹⁾	35	150	200	160	470	280	400	100	20	200	150	550	450	M20	M12	340	140	32	80	35	10
150250 ¹⁾	35	150	200	160	470	280	400	100	20	200	150	500	400	M20	M12	340	140	32	80	35	10
150315	45	150	200	160	530	280	400	100	18	200	150	550	450	M20	M12	370	140	42	110	45	12
150400	45	150	200	160	530	315	450	100	18	200	150	550	450	M20	M12	370	140	42	110	45	12
200250 ¹⁾	45	200	200	160	590	280	400	100	22	200	150	500	400	M20	M12	430	180	42	110	45	12

All dimensions in mm

¹⁾Transnorm pump sizes, not included in DIN 24255 / EN 733. Flanges drilled according to ANSI 150 on request.

* Slots suitable for bolts with dimensions indicated. Bolts are not included in the bare shaft pump standard scope of supply.

Connections for bearing brackets 25, 35 and 45



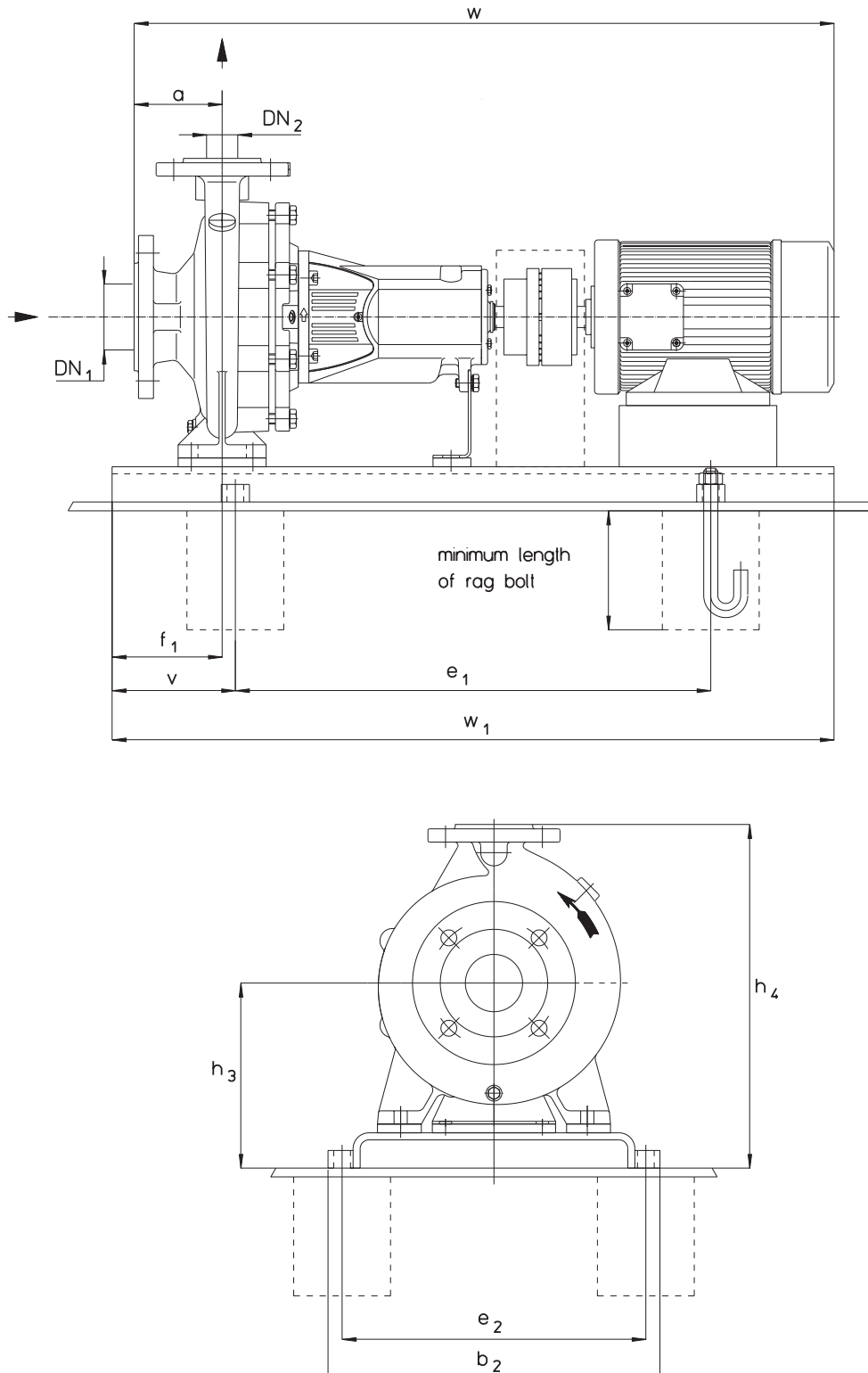
U_{m1} : Pressure gauge. Only available on request
 U_{m2} : Pressure gauge. Only available on request
 U_e : Drainage
 U_{eo} : Oil drainage
 U_{fo} : Oil filling
 U_{AL} : Drainage for leakage. Threaded hole only available on request
 U_s : Sensor
 $9A$: Quench liquid outlet (tandem arrangement)
 $9E$: Quench liquid inlet (tandem arrangement)

U_{k1} : Quench Inlet
 U_{k2} : Heating Inlet
 U_{k3} : 051 Inlet (Stuffing box)
 U_{k4} : 052 External sealing (Stuffing box)
 U_{k5} : External Flushing
 U_{k6} : Quench Outlet
 U_{k7} : Heating Outlet
 U_{k8} : 051 Outlet (Stuffing box)
 $11A$: Sealing liquid outlet (back to back arrangement)
 $11E$: Sealing liquid inlet (back to back arrangement)

Size	u _{m1}	u _{m2}	u _e	u _{eo}	u _{fo}	u _{AL}	u _s	u _{k1}	u _{k2}	u _{k3}	u _{k4}	u _{k5}	u _{k6}	u _{k7}	u _{k8}	9A	9E	11A	11E
32125 ¹⁾	G 1 / 4	G 1 / 4																	
32160																			
32200																			
32250																			
40125 ¹⁾																			
40160																			
40200																			
40250																			
40315																			
50125 ¹⁾																			
50160																			
50200																			
50250																			
50315																			
65125 ¹⁾																			
65160																			
65200																			
65250																			
65315	G 1 / 4		Φ15.65	Φ13	M 8														
80160																			
80200																			
80250																			
80315																			
80400																			
100160																			
100200																			
100250																			
100315																			
100400																			
125200																			
125250																			
125315																			
125400																			
150200																			
150250																			
150315																			
150400																			
200250																			

Certain construction sizes do not correspond in all details to the drawing.

Foundation plan, bearing brackets 25, 35 and 45.



Dimensions in mm

Tolerances for welded parts acc. to DIN 8570 B

n = 1450 rpm

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	w*	w ₁	Rag bolt
	size	kW			pump	unit													
32-125	71	0.25	S241	B68	31	50	32	50	80	330	480	290	125	60	177	317	683	730	M16x200
32-160	71	0.37	S301		33	65				390	480	350			197	357	683		
	80	0.55				67											717		
32-200	80	0.55			34	68				225	405	717							
	80	0.75				70						717							
	90S	1.10				73						775							
32-250	80	0.75	S383		46	103			100	490	600	440	160	75	260	485	737	920	M20x400
	90S	1.10				106											795		
	90L	1.50				109											795		
	110L	2.20				119											836		
40-125	71	0.37	S241		B68	28			60	40	65	80	330	480	290	125	60	177	317
	80	0.55	62	717															
40-160	71	0.37	S301	30		62	390	480	350				197	357	683				
	80	0.55				64									717				
	80	0.75				66									717				
	90S	1.10				69									775				
40-200	80	0.55		36		75	100	490	600			440	160	75	225	405	737		
	80	0.75	77			737													
	90S	1.10	80			795													
	90L	1.50	83			795													
40-250	90S	1.10	S383	46		106	125	540	660			490	170	75	305	555	795	920	M20x400
	90L	1.50				109											795		
	100L	2.20				119											836		
	100L	3.00				121											836		
40-315	100L	2.20	B80	73	147	125	540	660	490	170	75	305	555	971					
	100L	3.00			150									971					
	112M	4.00			155									992					
	132S	5.50			S434									B95	171	1068	1000		
50-125	71	0.37	S301	B68	30	62	50	65	100	390	480	350	125	60	197	357	703	730	M16x200
	80	0.55				64											737		
	80	0.75				66											737		
50-160	80	0.55			36	75				390	480	350	125	60	225	405	737		
	80	0.75				77											737		
	90S	1.10				80											795		
50-200	80	0.75			40	81			100	450	540	400	140	60	225	425	737		
	90S	1.10				84											795		
	90L	1.50				87											795		
	100L	2.20	S342	B80		97	836	820											
50-250	90L	1.50	S383	B80	50	114	125	490	600	440	160	75	260	485	795	920	M20x400		
	100L	2.20				123									836				
	100L	3.00				125									836				
	112M	4.00				131									857				
50-315	112M	4.00	S434	B95	88	171	125	540	660	490	170	75	305	585	992	1000			
	132S	5.50				186									1068				
	132M	7.50				198									1094				

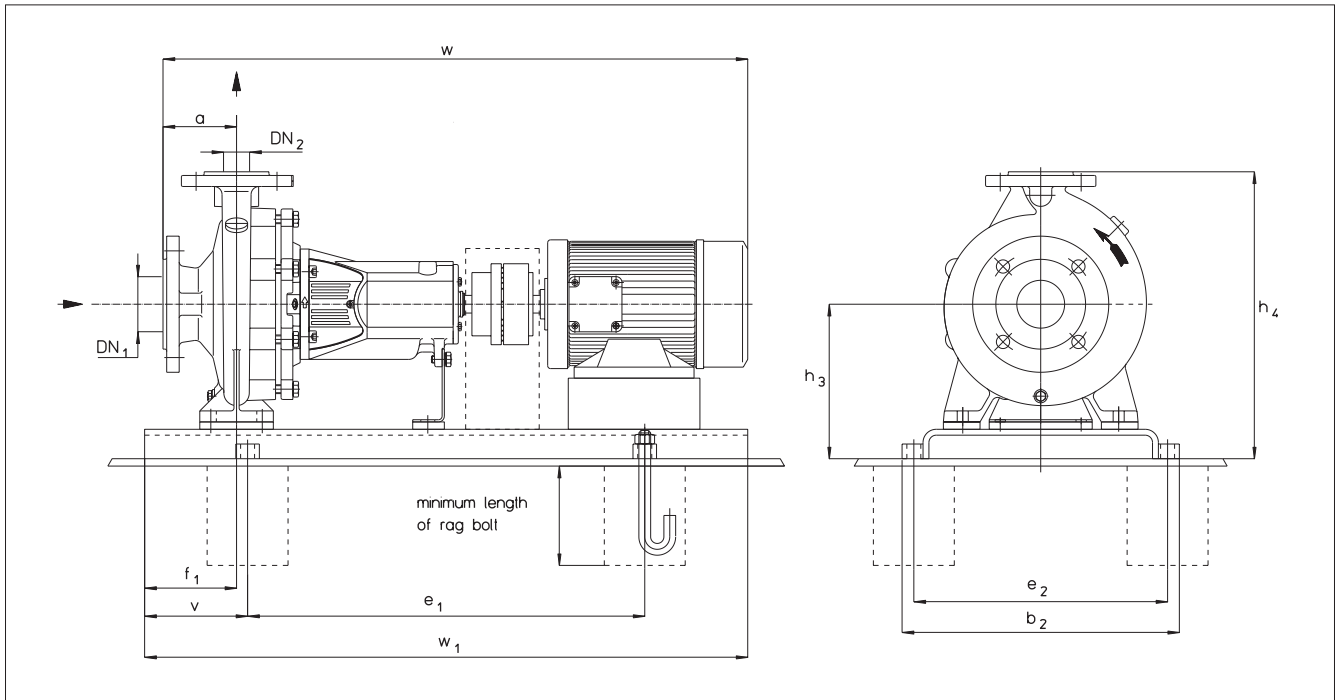
Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	w*	w ₁	Rag bolt			
	size	kW			pump	unit																
65-125	80	0.55	S342	B68	33	80	65	80	100	450	540	400	140	60	240	420	737	820	M20x400			
	80	0.75				82											737					
65-160	80	0.75			B80	39										88	95			104	737	795
	90L	1.50																				
	100L	2.20																				
65-200	90S	1.10	S383	B68	45	105	65	80	100	490	600	440	160	75	260	485	795	920	M20x400			
	90L	1.50				108											795					
	100L	2.20		B80		118											120			836		
	100L	3.00																			125	857
	112M	4.00																				
65-250	100L	2.20	S434	B80	70	158	65	80	100	540	660	490	170	90	280	530	946	1000				
	100L	3.00				160											946					
	112M	4.00				165											967					
	132S	5.50				181																
65-315	132S	5.50	S605	B95	92	236	65	80	125	730	740	670	190	90	300	550	1043	1120	M24x400			
	132M	7.50				247											1068					
	160M	11.00				268											1094					
	160L	15.00				S486											B110			288	610	840
80-160	80	0.75	S383	B68	43	100	80	100	125	490	600	440	160	75	260	485	762	920	M20x400			
	90S	1.10				103											820					
	90L	1.50		B80		106										116	820					
	100L	2.20																		118	861	
	100L	3.30																				
80-200	90L	1.50	S434	B95	60	125	80	100	125	540	660	490	170	90	260	510	930	1000				
	100L	2.20				134											971					
	100L	3.00				136										971						
	112M	4.00				141										992						
	132S	5.50				157										1068						
80-250	100L	3.00	S605	B80	75	197	80	125	125	730	740	670	190	90	300	580	971	1120				
	112M	4.00				202											992					
	132S	5.50		B95		218											1068					
	132M	7.50				230											1094					
80-315	132S	5.50	S486	B110	95	239	80	125	125	610	840	550	205	90	350	665	1068	1250				
	132M	7.50				251											1094					
	160M	11.00				272											1186					
	160L	15.00				291											1248					
80-400	160M	11.00	S486	B95	143	322	80	125	125	610	840	550	205	90	380	735	1247	1250				
	160L	15.00				340											1247					
	180M	18.50		B110		361											1371					
	180L	22.00				376											1371					
	200L	30.00		B125		424											1429					

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	w*	w ₁	Rag bolt													
	size	kW			pump	unit																										
100-160	100L	2.20	S434	B80	78	166	100	125	125	540	660	490	170	90	280	560	971	1000	M20x400													
	100L	3.00				169											971															
	112M	4.00				174											992															
	132S	5.50	S605	B95		190											1068			1120	M24x400											
100-200	100L	2.20	S434	B80	70	158				140	610	660	490		170	90	280	560	971	1000	M20x400											
	100L	3.00				160													971													
	112M	4.00				165													992													
	132S	5.50	B95	181		300													1068			1120	M24x400									
	132M	7.50		193	1094																											
100-250	112M	4.00	S605	B80	85	213			140		730	740	670		190		90	325	605	1007	1120			M24x400								
	132S	5.50		B95		228														1083												
	132M	7.50				240														1109												
	160M	11.00	261			1201																										
100-315	160M	11.00	S486	B110	104	281				140	610		550					90	350	655	1201	1250	M24x400									
	160L	15.00				300															1263											
	180M	18.50				320															1325											
	180L	22.00				337								1325																		
100-400	160L	15.00	S606	B95	177	402			125		150	140	730	840	670				205	110	380				735	1262	1400					
	180M	18.50		B110		423																				1386						
	180L	22.00				438																				1386						
	200L	30.00				B125										486										1444						
	225S	37.00	S607	B140		548				1481																						
	225M	45.00				569				1481																						
125-200	132M	7.50	S605	B95	100	256				125			150	140	730	740			670		190	90			350	665		1109	1120	M24x400		
	160M	11.00				277	1201																									
	160L	15.00				S486	B110	296	1263		1250																					
125-250	132M	7.50	S605	B95	102	258	125	150	140		730	740			670	190	90		350		705			1109		1120	M24x400					
	160M	11.00				279																		1201								
	160L	15.00				S486																		B110				298	1263		1250	
125-315	160L	15.00	S606	B95	151	375					125	150			140	730		840			670	205	110	380	735	1262		1250	M24x400			
	180M	18.50		B110		396																				1386						
	180L	22.00				411																				1386						
	200L	30.00				B125	456	1444																								
	225S	37.00	S607	B140		520	1481	1400																								
125-400	200L	30.00	S606	B125	188	498	125	150	140							730	840	670	205	110	415	815		1444	1250	M24x400						
	225S	37.00	S607	B140		559																	1481									
	225M	45.00				580																	1481									
	250M	55.00				B160										793	1604															
	280S	75.00	180x73x14	B180		1047										1679	1800	M16x200														
150-200	132M	7.50	S605	B95	123	295										150	200	160	730		740	670	190	110	380			780			1129	1120
	160M	11.00				316														1221												
	160L	15.00				335				1283																						
	180M	18.50	355	1345																												
150-250	160L	15.00	S606	B110	128	340				150	200	160	730	840	670				205	110	380	780	1283		1250			M24x400				
	180M	18.50				360																	1345									
	180L	22.00				B125																	389				1345					
	200L	30.00	S607	B140		436	940	230	1403					1400																		

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	w*	w ₁	Rag bolt
	size	kW			pump	unit													
150-315	180L	22.0	S606	B110	170	431	150	200	160	730	840	670	230	110	380	780	1406	1250	M24x400
	200L	30.00		B125		479					1464								
	225S	37.00	S607	B140		540					940						1501	1400	
	225M	45.00				561											1501		
	250M	55.00		B160		774											1624		
150-400	225M	45.00	B140	205	598	415					865				1501	1624			
	250M	55.00	B160		811														
200-250	160L	15.00	S607	B95	230	471	200	200	160	730	940	670	230	185	380	780	1342	1400	M24x400
	180M	18.50		B110		492											1466		
	180L	22.00				507											1466		
	200L	30.00				B125											555		

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimension listed are taken from the INNOMOTICS catalogue.

Foundation plan, bearing brackets 25,35 and 45



Dimensions in mm

Tolerances for welded parts acc. to DIN 8570 B

n = 2900 rpm

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	w*	w ₁	Rag bolt		
	size	kW			pump	unit															
32-125	71	0.55	S241	B68	31	51	32	50	80	330	480	290	125	60	177	317	683	730	M16x200		
	80	0.75				52											717				
	80	1.10				54											717				
	90S	1.50				57											775				
	90L	2.20				74											775				
32-160	90S	1.50	S301	B80	33	72				390	540	320	140		197	357	775	820			
	90L	2.20				80											775				
	100L	3.00	S272	B80	33	89				360	540	320	140		225	405	816	920			
	112M	4.00				96											837				
32-200	90L	2.20	S301	B68	34	81				390	480	350	125	225	405	775	730				
	100L	3.00	S272	B80		90										816					
	112M	4.00				97										837					
	132S	5.50	S303	B95		128				390	600	350	160			913	920				
	132S	7.50				138										913					
32-250	132S	7.50	S383	B95	46	151				100	490	660	490	170	75	260	485	933		1000	M20x400
	160M	11.00	S434			171												1051			
	160M	15.00				184												1051			

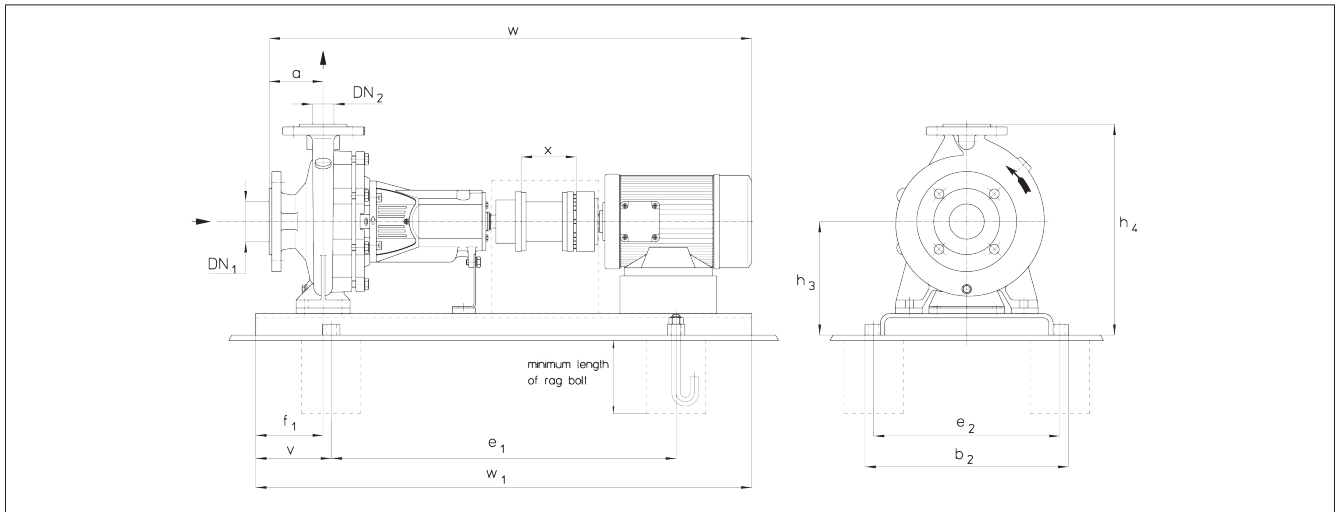
Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	w*	w ₁	Rag bolt												
	size	kW			pump	unit																									
40-125	80	1.10	S241	B68	28	64	40	65	80	330	480	290	125	60	177	317	717	730	M16x200												
	90S	1.50				67											775														
	90L	2.20				71											775														
	100L	3.30				S272											B80			80	816	820									
40-160	90S	1.50	S301	B68	30	69				390	480	350	125		197	357	775	730		M16x200											
	90L	2.20				77											775														
	100L	3.00	S272	B80		79											816	820													
	112M	4.00				93											837														
	132S	5.50	S303	B95		115			913					920																	
40-200	100L	3.00	S342	B80	36	92			100	450	540	400	140	240	420	836	820	M20x400													
	112M	4.00				99										857															
	132S	5.50	S303	B95		122										390	600		350	160	225	405	933	920	M16x200						
	132S	7.50				133																	933								
	160M	11.00				162																	1051								
40-250	132S	7.50	S383		B95	46				151	490	600	440	160	75	260	485	933	1000	M20x400											
	160M	11.00								171								1051													
	160M	15.00		S434						184								1051													
	160L	18.50		224						1113																					
50-125	90S	1.50	S301	B68	30	69				50	65	100	390	480	350	125	60	197	357	795	730	M16x200									
	90L	2.20				77	795																								
	132S	5.50				S303	B95	116	933											920											
50-160	90L	2.20	S301	B68	36	83	450	540	400				140	225	405	795		730	M16x200												
	100L	3.00	S342	B80		92										836															
	112M	4.00				99										857															
	132S	5.50	S303	B95		122										390				600	350	160	225	405	933	920	M16x200				
	132S	7.50				133																			933						
	160M	11.00	S383			162																			1050						
50-200	100L	3.00	S342	B80	40	96	50	65	100				450	540	400	140	60	240	440	836	820	M20x400									
	112M	4.00				103														857											
	132S	5.50	S303	B95		126							390	600	350	160		225	425	933	920		M16x200								
	132S	7.50				136														933											
	160M	11.00				167														1051											
	160M	15.00	S383			180							1051																		
50-250	160M	15.00	S434		B110	50							188	540	660	490	170	75	260	485	1051	1000		M20x400							
	160L	18.50											228								1113										
	180M	22.00	S605	B125									243								730		740		670	190	280	505	1175	1120	M24x400
	200L	30.00											303																1233		

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	w*	w ₁	Rag bolt								
	size	kW			pump	unit																					
65-125	100L	3.00	S342	B80	33	98	65	80	100	450	540	400	140	60	240	420	836	820	M20x400								
	112M	4.00				104											857										
	132S	5.50	S383	B95		119				490	600	440	160				933	920									
	132S	7.50				130														933							
65-160	132S	5.50		39	125	540										660				490	170	75	260	440	933	1000	
	132S	7.50			136																				933		
	160M	11.00			165													1051									
	160M	15.00			179													1051									
65-200	160M	11.00	S434	B95	45	170				540	660	490	170	75	260	485	1051	1120		M24x400							
	160M	15.00				183											1051										
	160L	18.50				222											1113										
	180M	22.00	S605			B110											238		730		740	670	190	280	505	1175	
	200L	30.00				B125											298							300	525	1233	
65-250	160L	18.50	S435	B95	70	254				540	840	550	205	90	280	530	1223	1140	M20x400								
	180M	22.00	S486	B125		290											1285	M24x400									
	200L	30.00				397											610		840	550	205				1343		
	200L	37.00				332																			1343		
	225M	45.00	S607			357													670	230	325	575	1373	1400			
80-160	132S	7.50	S383	B95	43	148				490	600	440	160	75	260	485	958	920	M20x400								
	160M	11.00	S434			167											1076										
	160M	15.00				181											540	660		490	170				1076		
	160L	18.50				220																			1138		
	180M	22.00				235																					
80-200	200L	15.00	S605	B95	60	226	730	740	670	190	75	280	530		1186	1120	M24x400										
	200L	18.50				244									1248												
	180M	22.00		B110		259									1310												
	200L	30.00	B125	314																			1368				
	200L	37.00		338																			1368				
80-250	180M	22.00	S486	B110	75	293	610	840	550	205	90	300	580	1310	1400												
	200L	30.00				348								1368													
	200L	37.00		B125		372								550		1368											
	225M	45.00	402			730								940		670		230			580	1368					
	250M	55.00	S607	B140														651	325	605	1398	1140					
															350	630	1528										

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	w*	w ₁	Rag bolt
	size	kW			pump	unit													
100- 160	160L	18.50	S435	B95	78	263	100	125	125	540	740	490	200	90	280		1248	1140	M20x400
	180M	22.00	S486	B110		278				610	840	550	205		300	580	1310	1250	M24x400
	200L	30.00		B125		341											1368		
	200L	37.00				365											1368		
100- 200	160L	18.50	S435	B95	70	254			125	540	740	490	200		280	560	1248	1140	M20x400
	180M	22.00	S486	B110		269				610	840	550	205		300	580	1310	1250	M24x400
	200L	30.00		B125		332											1368		
	200L	37.00				357											1368		
	225M	45.00	S607	397		730				940	670	230	1398		1400				
100- 250	220L	30.00	S486	B125	85	358			140	610	840	550	205		325	605	1383	1250	
	200L	37.00				382											1383		
	225M	45.00	S607			B140				413	730	940	670		230	350	630	1413	1400
	250M	55.00								661								380	
	280S	75.00								S60A	B160	827	744		1200	696	300	380	660
	280M	90.00	869	1643															
	125- 200	250M	55.00	S607	B140	100				677	125	150	140		730	940	670	230	90
280S		75.00	S609A	B160	842		744	1200	696	300				380	695	1643	1800		
280M		90.00			884											1643			

*Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimensions listed are taken from the INNOMOTICS catalogue.

Foundation plan for units with spacer type coupling, bearing brackets 25, 35 and 45



Dimensions in mm

Tolerances for welded parts acc. to DIN 8570B

n = 1450 rpm

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	x	w*	w ₁	Rag bolt										
	size	kW			pump	unit																								
32-125	71	0.37	S272	H80	31	69	32	50	80	360	540	320	140	60	177	317	100	823	820	M16x200										
32-160	71	0.37			33	71									823															
	80	0.55				73									857															
32-200	80	0.55			34	74									857															
	80	0.75				76									857															
	90S	1.10				79									915	920		M12x100												
32-250	80	0.75	46		105	100	490	600	440	160	75	260	485	877	M20x400															
	90S	1.10			108									935																
	90L	1.50			112									935																
	100L	2.20			120									976																
40-125	71	0.37	S272		H80	28	66	40	65	80	360	540	320	140	60	177	317	100	823	820	M20x200									
	80	0.55					68									857														
40-160	71	0.37		30		68	70									361	600		325			160	60	182	342	823	915	920	M12x100	
	80	0.55																								72				857
	80	0.75																								75				915
	90S	1.10																								S015				877
40-200	80	0.55	36	85		100	450			540	400	140	60	240	420	877	935	935	M16x200											
	80	0.75		86												877														
	90S	1.10		89												935				920	M20x400									
	90L	1.50		S303												93						976								
40-250	90S	1.10	S383	H80		46	108			100	490	600	440	160	75	260	485	100	935	920	M20x400									
	90L	1.50					112												935											
	100L	2.20			120		976																							
	100L	3.00			123		976																							
		100L			2.20		73	163	125										730			740	670	190	75	325	575	1111	1120	M24x400
100L	3.00	165	1111																											
112M	4.00	170	1132																											
132S	5.50	H95	186		1208																									

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	x	w*	w ₁	Rag bolt
	size	kW			pump	unit														
50-125	71	0.37	S272	H80	30	68	50	65	100	360	540	320	140	60	197	357	100	843	820	M16x200
	80	0.55				70												877		
	80	0.75				72												877		
50-160	80	0.55	S342		36	77				450	400	160	240		420	877		920	M20x400	
	80	0.75				79										877				
	90S	1.10				S303										82				935
50-200	80	0.75	S342		40	91				450	540	400	140	225	405	877		820	M20x400	
	90S	1.10	S303			94										935				
	90L	1.50				97										935				
	100L	2.20				106										976				
50-250	90L	1.50	S383		50	116				490	600	440	160	260	485	935		920	M20x400	
	100L	2.20				125										976				
	100L	3.00				127										976				
	112M	4.00				132										997				
50-315	112M	4.00	S605	H95	88	186				125	730	740	670	190	325	605		1132	1120	M24x400
	132S	5.50		H80		201												1208		
	132M	7.50				226												1234		
65-125	80	0.55	S342	H80	33	83	65	80	100	450	540	400	140	60	240	420	100	877	820	M20x400
	80	0.75				84												877		
65-160	80	0.75	S383		39	90				490	600	440	160		240	440		935	920	
	90L	1.50				97												976		
	100L	2.20				115														
65-200	90S	1.10	S383	H80	45	107	65	80	100	490	600	440	160	75	260	485	140	935	920	M20x400
	90L	1.50				111												935		
	100L	2.20				119												976		
	100L	3.00				121												976		
	112M	4.00				127												997		
65-250	100L	2.20	S605		70	159				730	740	670	190	90	300	550		1086	1120	M24x400
	100L	3.00				161												1086		
	112M	4.00				167												1007		
	132S	5.50		S435		196									540	490		200	280	530
65-315	132S	5.50	S486	H95	92	237			125	610	840	550	205		325	605		1208	1250	M24x400
	132M	7.50				249												1234		
	160M	11.00				270												1326		
	160L	15.00				S607												H110		

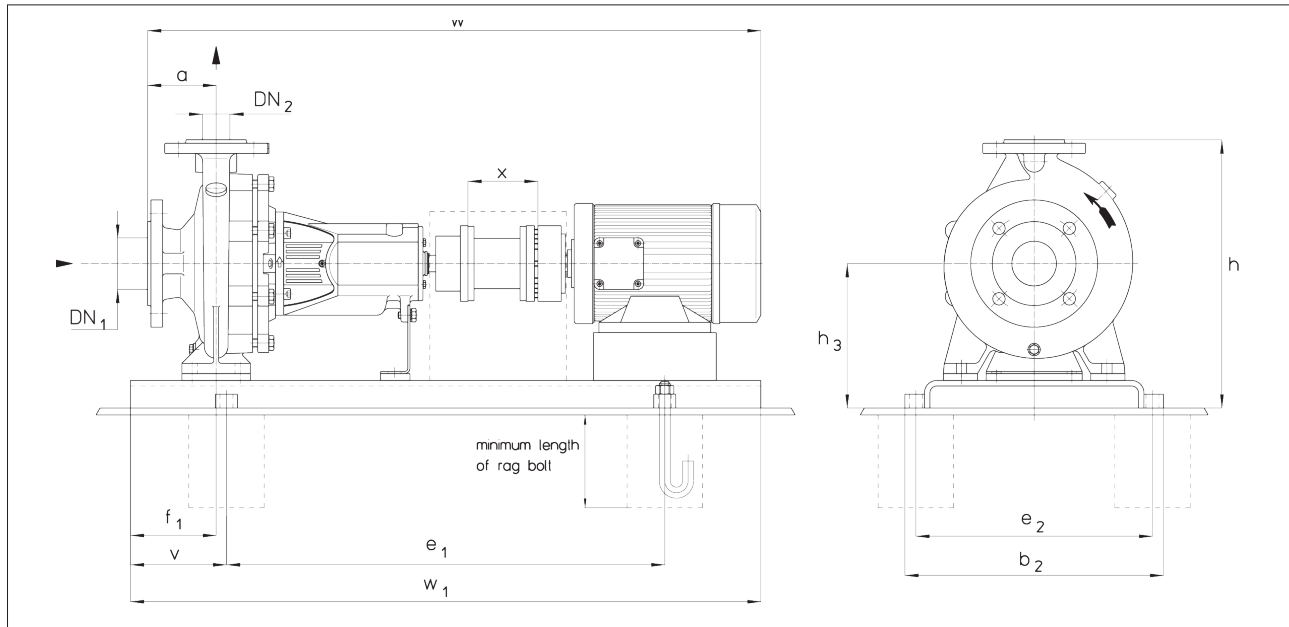
Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	x	w*	w ₁	Rag bolt				
	size	kW			pump	unit																		
80-160	80	0.75	S383	H80	43	102	80	100	125	490	600	440	160	75	260	485	140	902	920	M20x400				
	90S	1.10				105												960						
	90L	1.50				108												960						
	100L	2.20				117												1001						
	100L	3.00				119												1001						
80-200	90L	1.50	S434	S605	60	126	80	100	125	540	660	490	170	75	280	530	140	1070	1000					
	100L	2.20	149			730				740	670	190	90					350	665		1111	1250	M24x400	
	100L	3.00	151																		1132			
	112M	4.00	156																		1208			
	132S	5.50	172																		1111			
80-250	100L	3.00	S486	H95	75	198	80	125	125	610	840	550	205	90	300	580	140	1132	1250	M24x400				
	112M	4.00				203												1208						
	132S	5.50				219												1234						
	132M	7.50				231												1208						
80-315	132S	5.50	S486	H95	95	240	80	125	125	730	940	670	230	90	350	665	140	1234	1250	M24x400				
	132M	7.50				252												1234						
	160M	11.00				273												1326						
	160L	15.00				S607												H110			293	1388	1400	
80-400	160M	11.00	S486	S607	143	324	80	125	125	730	940	670	230	90	380	735	140	1383	1400	M24x400				
	160L	15.00	381			1507																		
	180M	18.50	403			1507																		
	180L	22.00	418			1565																		
	200L	30.00	H125			467																		
100-160	100L	2.20	S605	H80	78	168	100	125	125	730	740	670	190	90	300	580	140	1111	1120	M24x400				
	100L	3.00				170												1111						
	112M	4.00				175												1132						
	132S	5.50				S435												H95			204	1208	1140	M20x400
100-200	100L	2.20	S605	H80	70	159	100	125	125	730	740	670	190	90	280	560	140	1111	1120	M24x400				
	100L	3.00				161												1111						
	112M	4.00				167												1132						
	132S	5.50				S435												H95			196	1208	1140	M20x400
	132M	7.50				S486															207	1234	1250	
100-250	160M	4.00	S605	H80	85	214	100	125	125	730	740	670	190	90	325	605	140	1147	1250	M24x400				
	160L	5.50	230			1223																		
	180M	7.50	241			1249																		
	180L	11.00	262			1341																		
100-315	160L	11.00	S605	H95	104	282	100	125	140	730	940	670	230	90	350	665	140	1341	1400	M24x400				
	180M	15.00				302												1403						
	180L	18.50				322												1465						
	180L	22.00				H125												339			1465			
	160L	15.00				S607												H90			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522	1600	M24x400				
	200L	30.00				502												1580						
	225S	37.00				553												1617						
	225M	45.00				574												1617						
	160L	15.00				S607												H140			177	417	100	125
180M	18.50	H110	439	1522																				
100-400	180L	22.00	S608	H125	177	454	100	125	140	730	940	670	230	110	380	735	140	1522						

Volute Casing Pumps Z-line

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	x	w*	w ₁	Rag bolt			
	size	kW			pump	unit																	
125-200	132M	7.50	S486	H95	100	257	125	150	140	610	840	550	205	90	350	655		1249	1250	M24x400			
	160M	11.00				278												1341					
	160L	15.00	S607	H110		298												1403	1400				
125-250	132M	7.50	S486	H95	102	259				610	840	550	205			110		380	735		140	1249	1250
	160M	11.00				280																1341	
	160L	15.00	S607	H110		300																1403	
125-315	160L	15.00		H125	151	390				730	940	670	230	1398	1400								
	180M	18.50		H140		412								1522									
	180L	22.00		H125		426								1522									
	200L	30.00		H125		475								1580									
	125-400	225S		37.00	S608	H140					526	1617	1600										
		200L	30.00	S607	H125	514					940	230	415	815	1580	1400							
225S		37.00	S608	H140	188	564									1617								
225M		45.00				585					1617												
250M		55.00				H160					817	1740											
280S		75.00				180x73x14					H180	1054	1815	1800	M16x200								
150-200	132M	7.50	S606	H95	123	296	150	200	160	730	840	670	205	110	380	780	140	1269	1250	M24x400			
	160M	11.00				329												1361					
	160L	15.00	S607	H110		348					940	670	230					1423	1400				
	180M	18.50				368												1485					
150-250	160L	15.00	S607	H110	128	354	150	200	160	730	940	670	230	110	380	780	140	1423	1400	M24x400			
	180M	18.50				H125												374			1485		
	180L	22.00				H140												391			1485		
	200L	30.00				H110												454			1543		
150-315	180L	22.00	S608	H140	170	446					1060	670	270		415	865	140	1542	1600				
	200L	30.00				H125												495			1600		
	225S	37.00				546												1637					
	225M	45.00				567												1637					
	250M	55.00			H160	798												1760					
150-400	225M	45.00	H140	205	603	200					200	160	730		1060	670	270	185	380		780	180	1637
	250M	55.00			H160		835	1760															
200-250	160L	15.00	H110	230	200	492	200	200	160	730	670	270	185	380	780	180	1518						
	180M	18.50				512											1642						
	180L	22.00				527											1642						
	200L	30.00				H125											576		1700				

*Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimensions listed are taken from the INNOMOTICS catalogue.

Foundation plan for units with spacer type coupling, bearing brackets 25, 35 and 45



Dimensions in mm

Tolerances for welded parts acc. to DIN 8570 B

n = 2900 rpm

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	x	w*	w ₁	Rag bolt			
	size	kW			pump	unit																	
32-125	73	0.55	S272	H80	31	70	32	50	80	360	540	320	140	60	177	317	100	823		M16x200			
	80	0.75	71													857							
	80	1.10	73			192				332	857												
	90S	1.50	76								915												
	90L	2.20	79								915												
32-160	90S	1.50	33		78	490				740	440	200			212	372			915				
	90L	2.20			81														915				
	100L	3.00			89														956				
	112M	4.00			96														977				
32-200	90L	2.20	S385		34	82										240		420		915	1140	M20x400	
	100L	3.00				90														956			
	112M	4.00				97														977			
	132S	5.50				121														1053			
	132S	7.50				131														1053			
32-250	132S	7.50		H95	46	152	100										360	485					1073
	160M	11.00				164																	1191
	160M	15.00				177																	1191

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	x	w*	w ₁	Rag bolt							
	size	kW			pump	unit																					
40-125	80	1.10	S385	H80	28	70	40	65	80	730	740	670	190	60	192	332	100	857	1140	M20x400							
	90S	1.50				73												915									
	90L	2.20	S605			76												915	1120	M24x400							
	100L	3.00	S385			84												192	332	956	1140	M20x400					
40-160	90S	1.50			30	75									212	372		915									
	90L	2.20				78												915									
	100L	3.00				H95												86	232	392	956	1120	M24x400				
	112M	4.00	93																								
132S	5.50	116	1053																								
40-200	100L	3.00	S605	H80	36	101			100					260	440	976											
	112M	4.00				106										997											
	132S	5.50				123										1073											
	132S	7.50		133		1073																					
	160M	11.00		164		1191																					
40-250	132S	7.50	H95	46	152	490								740	670	200		75	280	505	1073						
	160M	11.00			193																1191						
	160M	15.00			207																1191						
	160L	18.00			S385					225		1253	1140								M20x400						
	50-125	90S			1.50		S015	H80		30	75	50	65				100				361	600	325	160	60	182	342
90L		2.20	78	935																							
132S		5.50	S434	H95	116	540			660		490			170	212	372		1073	1000	M20x400							
50-160	90L	2.20	S303	H80	36	93	390	600	350	160	60			225	405	100		935	920	M14x200							
	100L	3.00	S385			101	490	740	440	200								240	420	976	1140	M20x400					
	112M	4.00	S303			108	390	600	350	160								225	405	997	920	M16x200					
	132S	5.50	S434			123	540	660	490	170								240	420	1073	1000	M20x400					
	132S	7.50		133		1073																					
	160M	11.00		S605		H95								164	730					740			670	190	260	440	1191
	50-200	100L	3.00	S303		H80	40	105	50	65				100	390			600	350	160	60	225	425	100	976	920	M16x200
112M		4.00	112		997																						
132S		5.50	S434	H95	127	540		660			490				170	240		440	1073	1000		M20x400					
132S		7.50			137														1073								
160M		11.00	S605		168	730		740			670				190	260		460	1191	1120		M24x400					
160M		15.00			182														1191								
50-250	160M	15.00	S486		H110	50	211	610			840				550	205		75	280	505	1191	1250	M24x400				
	160L	18.50					S385														229				1253	1140	M20x400
	180M	22.00		H125			250														1315				1250	M24x400	
	200L	30.00					281					1373															

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	x	w*	w ₁	Rag bolt									
	size	kW			pump	unit																							
65-125	100L	3.00	S383	H80	33	108	65	80	100	490	600	440	160	60	240	660	100	976	920	M20x400									
	112M	4.00	S385			115					740		200					997	1140										
	132S	5.50	S434			130					540		660					490	170		1073	1073	1000						
	132S	7.50				141																							
65-160	132S	5.50	H95	39	136	730				740	670	190	75		280		505	260	460	1191	1120	M24x400							
	132S	7.50			147																								
	160M	11.00			167																								
	160M	15.00			180																								
65-200	160M	11.00		S605	45	192				490	840	550	200	75	260	485	1253	1140	M20x400										
	160M	15.00				206																							
	160L	18.50		S385		224														610	840	550	205	280	505	525	1315	1250	M24x400
	180M	22.00	S486	H110		240																							
	200L	30.00		H125		300																							
65-250	160L	18.50	S607	H95	70	264				730	940	670	230	90	300	550	140	1363	1400	M24x400									
	180M	22.00		H110		280																							
	200L	30.00		H125		389												1483											
	200L	37.00				335												1483											
	225M	45.00	S608	414		1060					270	325	575		1513	1600													
	80-160	132S	7.50	S605		H95					43	149	730		740	670		190	75		280	505	140	1098	1120	M24x400			
160M		11.00	190	490	440					200		260		485			1216			1140				M20x400					
160M		15.00	S385																						204				
160L		18.50	222																										
180M		22.00	237																										
80-200	160M	15.00	S486	H125	60	227				540	940	490	215	90	280	510	140	1326	1250	M24x400									
	160L	18.50	253			1388																							
	180M	22.00	S439	H110		269												730	940	670	230	300	580	1450	1270	M20x400			
	200L	30.00	H125	324																									
	200L	37.00		348																									
80-250	180M	22.00	S607	H110	75	295				730	1060	670	270	90	325	605	350	630	1538	1600									
	200L	30.00		H125		350																							
	200L	37.00				374																							
	225M	45.00	S608	H125		450																							
	250M	55.00		H140		655																							

Size	Motor		Base plate No.	Cplg.	Weight kg		DN ₂	DN ₁	a	b ₂	e ₁	e ₂	v	f ₁	h ₃	h ₄	x	w*	w ₁	Rag bolt
	size	kW			pump	unit														
100-160	160L	18.50	S607	H95	78	272	100	125	125	730	940	670	230	90	300	580	140	1388	1400	M24x400
	180M	22.00		H110		288												1450		
	200L	30.00		H125		343												1508		
	200L	37.00				367												1508		
100-200	160L	18.50		H95	70	264												1388		
	180M	22.00		H110		280												1450		
	200L	30.00		H125		335												1508		
	200L	37.00				359												1508		
	225M	45.00	S608			445			1538	1600										
100-250	200L	30.00	S607	85	350	1523			1400											
	200L	37.00			374	1523														
	225M	45.00	S608		H140	461			1523		1600									
	250M	55.00				666	1683													
	280S	75.00	S609A		H160	850	1783	1800												
	280M	90.00				892	1783													
	125-200	250M	55.00		S608	H140	100	682	125	150	140	730	1060	670	270	90	350	665	140	
280S		75.00	S609A	H160	865	744		1200				696	300	380	695		1783	1800		
280M		90.00			907	744		1200				696	300	380	695		1783	1800		

*Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimensions listed are taken from the INNOMOTICS catalogue.



Description

Type+Size	Hydraulic+ bearing	Shaft seal	Material	Casing gasket	Lubrication	Flange
ZLND 032125 to ZLND 200250	A. First hydraulic	041: Self-sealed, uncooled packing rings	0B: Cast iron GG25	2 confined flat gasket of EWP 210 material 4: confined flat gasket of PTFE	A Oil lubricated G Greased	2 EN 1092 PN16, drilled acc. to PN16, Drilling for connection Drainage
	B. Second hydraulic	052: Uncooled packing rings, external seal liquid	0C: Cast iron GG25, Bronze G-CuSn10 impeller			C EN 1092 PN16, drilled acc. to PN16, Drilling for connection Manometer at pressure and suction side, Drainage
	1. Two ball bearings	B27: WC/Carbon, elastomer EPDM	0E: Cast iron GG25, Stainless steel 1.4408 impeller			3 EN 1092 PN16, drilled acc. to (ANSI) ASME 150, Drilling for connection Drainage
		X6S, X6G, AH3, AR3, AK3, A73: SiC/ Carbon, EPDM	1B Ductile cast iron GG25 impeller			Z EN 1902 PN16, drilled acc. to (ANSI) ASME 150, Drilling for connection Manometer at pressure and suction side, Drainage
		X6V, X6J, AHS, ARS, AKS, A7S: SiC/ SiC, Viton	1E: Ductile cast iron GGG40.3, Stainless steel 1.4408 impeller			
	A o B 032160, 032200 A 032125 to 200250	M3S, Z6M, X6P: SiC/SiC, Viton	4B Stainless steel 1.4408			

Codes AR3, ARS, ARK: are equivalent to AH3, AHS, AHK respectively plus quench
Codes AK3, AKS, AKK: are equivalent to AH3, AHS, AHK respectively plus heating/cooling
Codes A73, A7S, A7K: are equivalent to AH3, AHS, AHK respectively plus external flushing
Code B27: this execution is only valid for water up to 140 degrees.

Example of a pump designation:

Z L N D 1 0 0 2 5 0 A 1 X 6 S 4 B 4 A 2

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