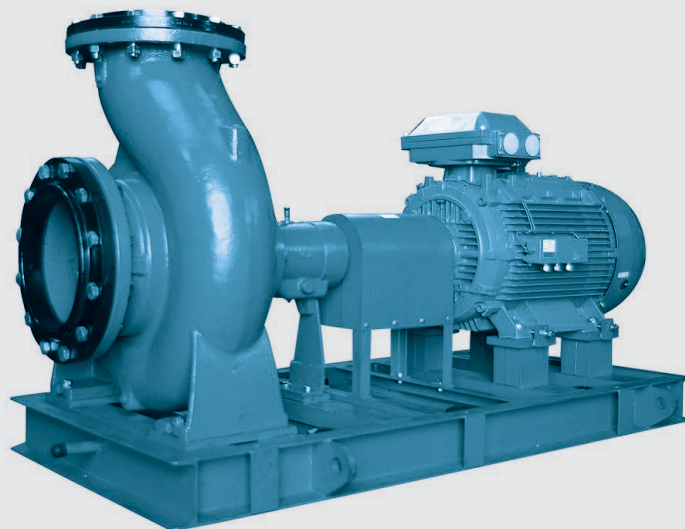




LDP & LDP-X

END SUCTION PUMPS

Fields of application

Water supply	Cooling water
Fire-fighting systems	Swimming pool water
Sprinkling	Sea water
Irrigation	Fire-fighting water
Drainage	Brackish water
Heating	Condensate
Air-con systems	Brine
Drinking water	Oils
Service water	Cleaning agents
Hot water	

Operating data

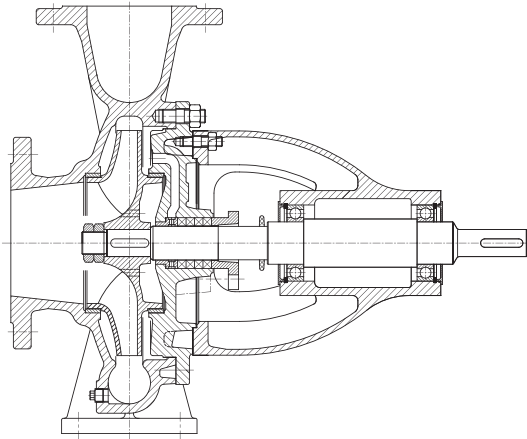
Q up to 2000 m³/h

H up to 100 m

Temperature -30 °C to +140 °C

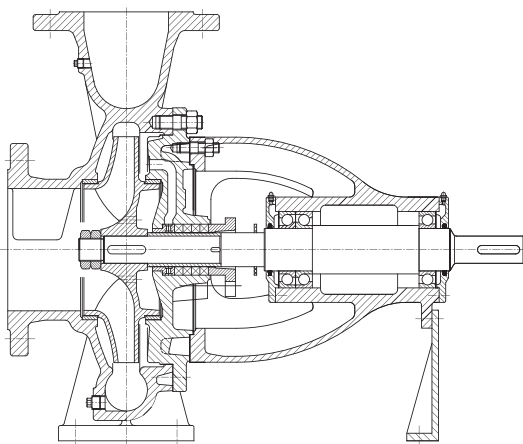
Pressure up to 16 bar

Construction



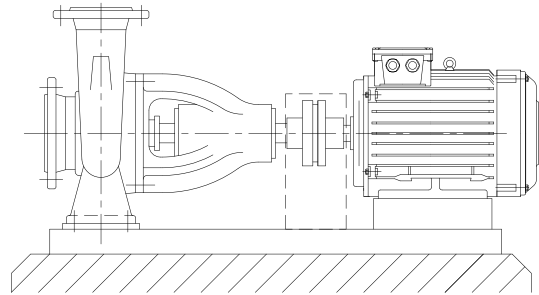
Type LDP

Pumps of the LDP, LDP-X series are horizontal volute casing centrifugal pumps. The principal dimensions and performance data of LDP type comply with DIN 24255. LDP-X type is outside of the official DIN-Norm. Dimensions can differ from other suppliers.

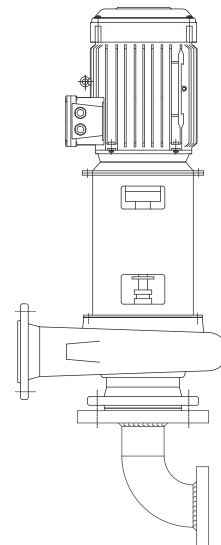


Type LDP-X

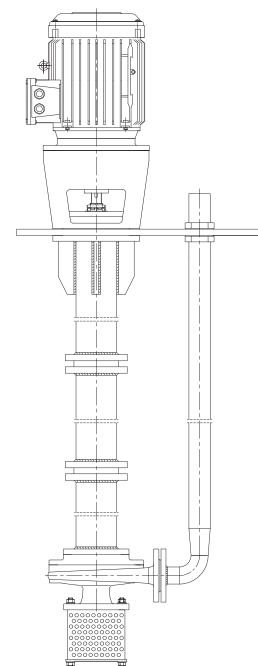
The components are factory-standardized. The major components of the horizontal LDP, LDP-X range are also used in the vertical configurations for dry or wet sump installations and to some extent for the vertical floor mounted and close coupled mono-bloc types DP-block.



Standard horizontal installation



Direct vertical installation (VD)

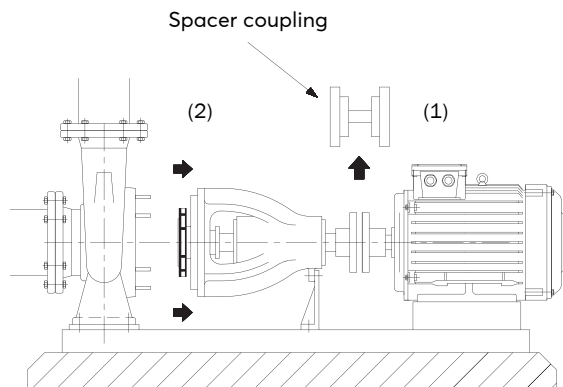


Vertical wet sump installation (VW)

LDP, LDP-X pumps are used primarily for handling clean or slightly abrasive media. The liquid should not contain any coarse or highly abrasive solids in order to prevent operational problems and premature wearwear, imposed by the operating conditions of the pump.

The suction and discharge flanges are according to DIN 2501 PN 10 or 16. All pumps are dynamically balanced according to ISO 1940 class G 6.3 and the pump axial thrust is hydraulically balanced.

Due to the pump design the complete bearing assembly including impeller and shaft seal can be dismantled without removing the volute casing from the pipe system (back-pull-out system).



Casing and impeller can be fabricated from special materials, e. g. zinc-free bronze G-CuSn, SG iron GGG 40, or Stainless Steel 1.4408. With casing pressures of up to 16 bar, details on application.

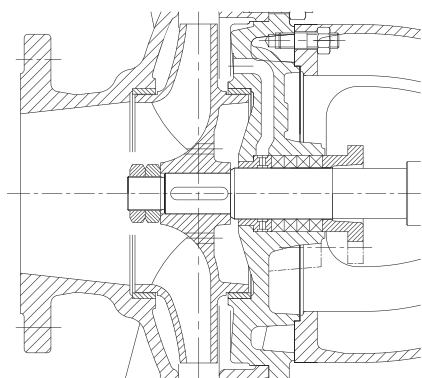
Casing/Impeller

The pump casing is of the volute type fitted with a suction side wear ring. If required, e.g. as part of subsequent repair work, the gland/seal housing can easily be machined for a delivery side wearing ring, too.

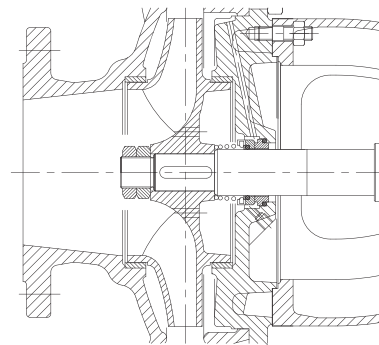
All impellers are dynamically balanced and hydraulically relieved by means of compensating bores.

Shaft and bearings

Pump with overhung bearing housing to DIN 24255. Shaft rotates in grease lubricated anti friction bearings. Re-greasing by funnel-type grease nipple. If required, the bearing housing can be equipped with a support foot at the drive end. A bearing pedestal is available for heavy duty drive applications, e.g. V-belts.



Stuffing box with gland packing



Stuffing box with mechanical seal

The standard arrangement is a packed gland for temperatures up to 110 °C.

For temperatures up to 140 °C a drip-tight maintenance free mechanical seal, according to DIN 24960 dimensions. Back-to-back double mechanical shaft seals, and "quench", are available for all variants on request.

An internal by-pass connects the pump casing with the stuffing box to ensure lubrication of the gland packing. When pumping from a vacuum tank or where the liquid to be pumped contains abrasive particles it is preferable to feed the stuffing box with an external sealing liquid. In this event the internal by-pass will be plugged.

Base frame

Pump and motor mounted on fabricated steel base frame which must be fixed with foundation bolts on a concrete base and subsequently grouted in. Base frames are constructed from welded profile sections.

Coupling

Two-component flexible coupling without spacer or Three-component flexible coupling with spacer. This coupling allows the removal of the pump rotor without the need for disconnecting the motor and pipe-work. If the pump housing, motor or the entire unit is moved, alignment is always necessary.

All couplings are supplied with a guard.

Motor

Pump direct driven by standard B3 foot mounted motor through flexible coupling.

Direction of rotation is clockwise looking at the pump shaft end. For maximum permissible speeds, depending on electric motors with 50 or 60 cycles supply, refer to page 4.

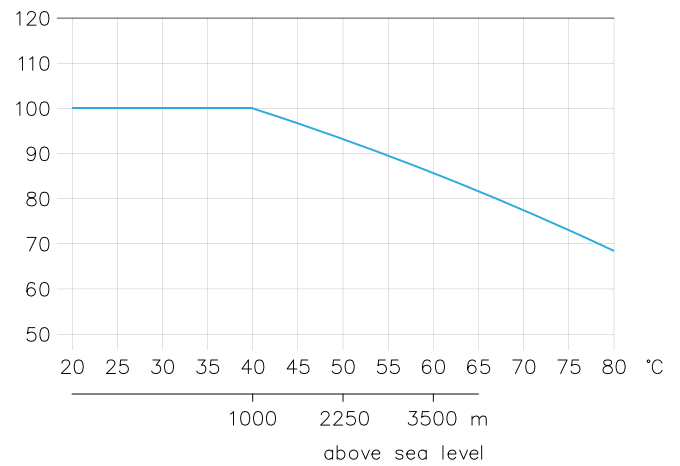
Mounting designation	B3 (IM 1001)
Enclosure class	IP 55
Insulation class	F
Ambient temperature	Max. 40°C
Voltages	3 x 220-240/380-415 V

Selection of motors

The power required to achieve the requested duty point can be found by means of the power chart below the performance chart. Find the power curve corresponding to the required QH-value (or interpolate between curves).

When deciding the motor size a safety margin acc. ISO 5199 must be added.

Motor load %



Safety margins according to ISO 5199

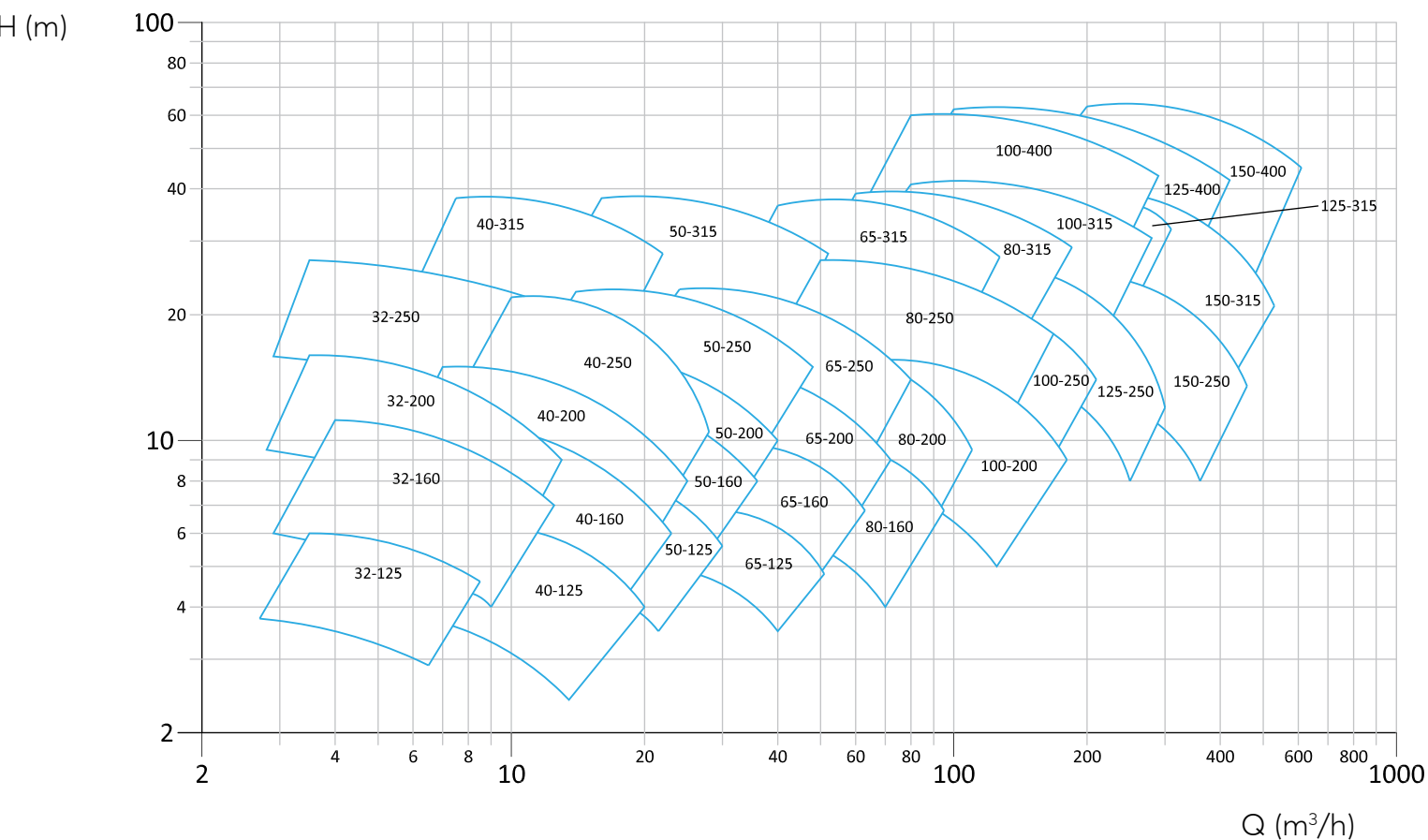
Up to required pump shaft power: [kW]	Use motor output P_2 : [kW]	Up to required pump shaft power: [kW]	Use motor output P_2 : [kW]
322	355	15.9	18.5
286	315	12.8	15
227	250	9.1	11
181	200	6.1	7.5
145	160	4.3	5.5
120	132	3.2	4
100	110	2.3	3
81	90	1.7	2.2
68	75	1.1	1.5
49	55	0.81	1.1
40	45	0.55	0.75
32.5	37	0.40	0.55
26	30	0.27	0.37
19	22	0.18	0.25

Ambient temperature

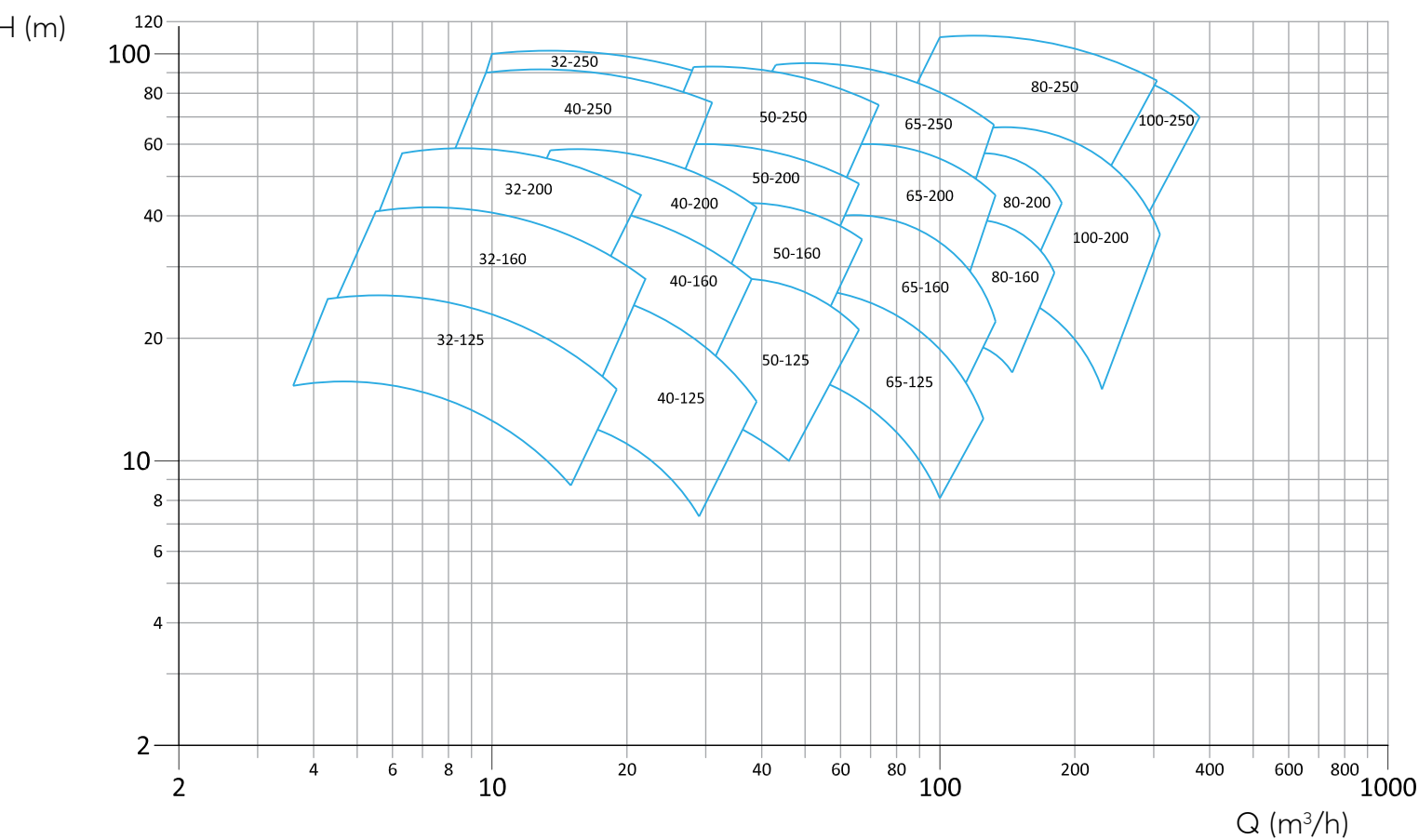
Up to +40°C.

Due to the low density and consequent low cooling effect of the air, operation at an ambient temperature above 40 °C or at an altitude exceeding 1000 m above sea level requires a reduction of the rated motor load.

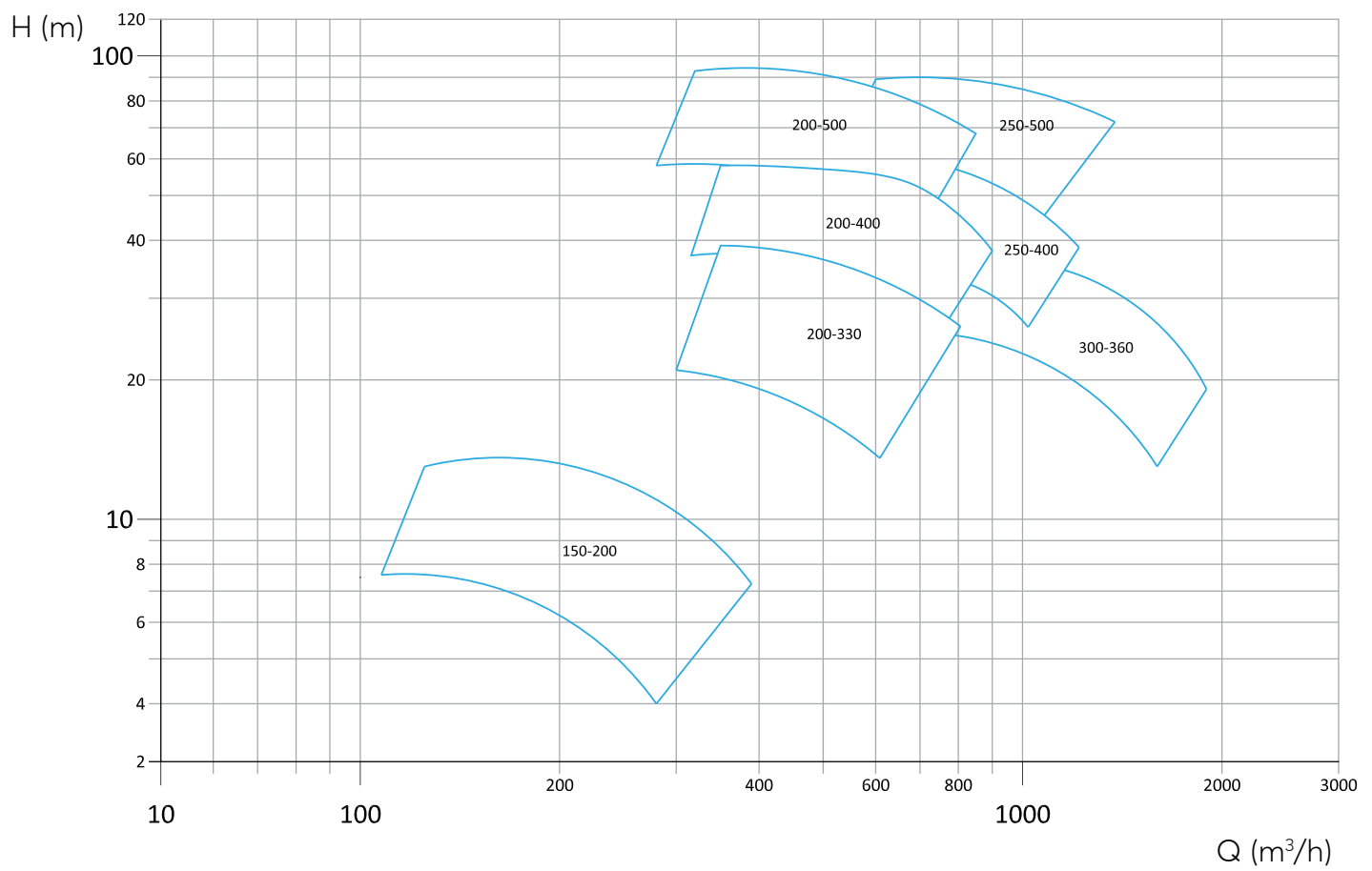
LDP - 1450 RPM



LDP - 2900 RPM



LDP-X - 1450 RPM



Range (Type LDP)

Pump type	Maximum permissible working pressure ¹⁾ Temp. -20 °C up to 110 °C Temp. 110 °C up to 140 °C				Max. permissible pump speed ⁴⁾	Max. permissible power absorbed kW ²⁾			
	Volute material					1450 min ⁻¹	1750 min ⁻¹	2900 min ⁻¹	3500 min ⁻¹
	GG 25	G-CuSn10	GG 25	G-CuSn10					
	cast iron	bronze	cast iron	bronze					
	bar	bar	bar	bar	min ⁻¹				
32-125	10	8	8	6	3600	3,3	4	6,6	8
32-160	10	8	8	6	3600	3,3	4	6,6	8
32-200	10	8	8	6	3600	14,5	17,7	29	35
32-250	10	8	8	6	3600 ³⁾	14,5	17,7	29	35
40-125	10	8	8	6	3600	3,3	4	6,6	8
40-160	10	8	8	6	3600	14,5	17,7	29	35
40-200	10	8	8	6	3600	14,5	17,7	29	35
40-250	10	8	8	6	3600 ³⁾	14,5	17,7	29	35
40-315	10	8	8	6	1800	49	59,8		
50-125	10	8	8	6	3600	14,5	17,7	29	35
50-160	10	8	8	6	3600	14,5	17,7	29	35
50-200	10	8	8	6	3600	14,5	17,7	29	35
50-250	10	8	8	6	3600 ³⁾	14,5	17,7	29	35
50-315	10	8	8	6	1800	49	59,8		
65-125	10	8	8	6	3600	14,5	17,7	29	35
65-160	10	8	8	6	3600	14,5	17,7	29	35
65-200	10	8	8	6	3600	14,5	17,7	29	35
65-250	10	8	8	6	3600 ³⁾	49	59,8	98	118
65-315	10	8	8	6	1800	49	59,8		
80-160	10	8	8	6	3600	14,5	17,7	29	35
80-200	10	8	8	6	3600	49	59,8	98	119
80-250	10	8	8	6	3000	49	59,8	98	
80-315	10	8	8	6	1800	49	59,8		
100-200	10	8	8	6	3600	49	59,8	98	118
100-250	10	8	8	6	3000	49	59,8	98	
100-315	10	7	6	4	1800	49	59,8		
100-400	10	7	6	4	1800 ³⁾	120	146		
125-250	10	7	6	4	1800	49	59,8		
125-315	10	7	6	4	1800	120	146		
125-400	10	7	6	4	1800 ³⁾	120	146		
150-250	10	7	6	4	1800	49	59,8		
150-315	10	7	6	4	1800	120	146		
150-400	10	7	6	4	1800 ³⁾	120	146		

1) The maximum permissible working pressure includes the pressure at the suction branch (positive suction head) and the maximum generated head at zero flow (closed valve).

2) If pumps are driven by direct coupled diesel/petrol engines the permissible kW ratings must be reduced by 20%. This also applies to pumps filled with 1.4401 stainless steel shafts. If the power absorbed by the pump is already at or near the maximum figure then only a nominal motor kW margin is allowed.

3) Pump output / head at 60 Hz speeds must not exceed the maximum values shown on the corresponding 50 Hz curves.

4) Maximum speeds shown apply to pumps driven via a flexible coupling (direct from motor or stub shaft with plumber blocks). Applications involving overhung pulleys must be referred to our works specifying the proposed performance data.

Applications involving higher pressures and different casing materials must be referred to our works.

Range (Type LDP-X)

Pump type	Maximum permissible working pressure ¹⁾				Max. permissible pump speed ³⁾	Max. permissible power absorbed kW ²⁾			
	Temp. -20 °C up to 110 °C Temp. 110 °C up to 140 °C								
	Volute material								
	GG 25 cast iron bar	G-CuSn10 bronze bar	GG 25 cast iron bar	G-CuSn10 bronze bar		780 			

1) The maximum permissible working pressure includes the pressure at the suction branch (positive suction head) and the maximum generated head at zero flow (closed valve).

2) If pumps are driven by direct coupled diesel/petrol engines the permissible kW ratings must be reduced by 20%. This also applies to pumps equipped with 1.4401 stainless steel shafts. If the power absorbed by the pump is already at or near the maximum figure then only a nominal motor kW margin is allowed.

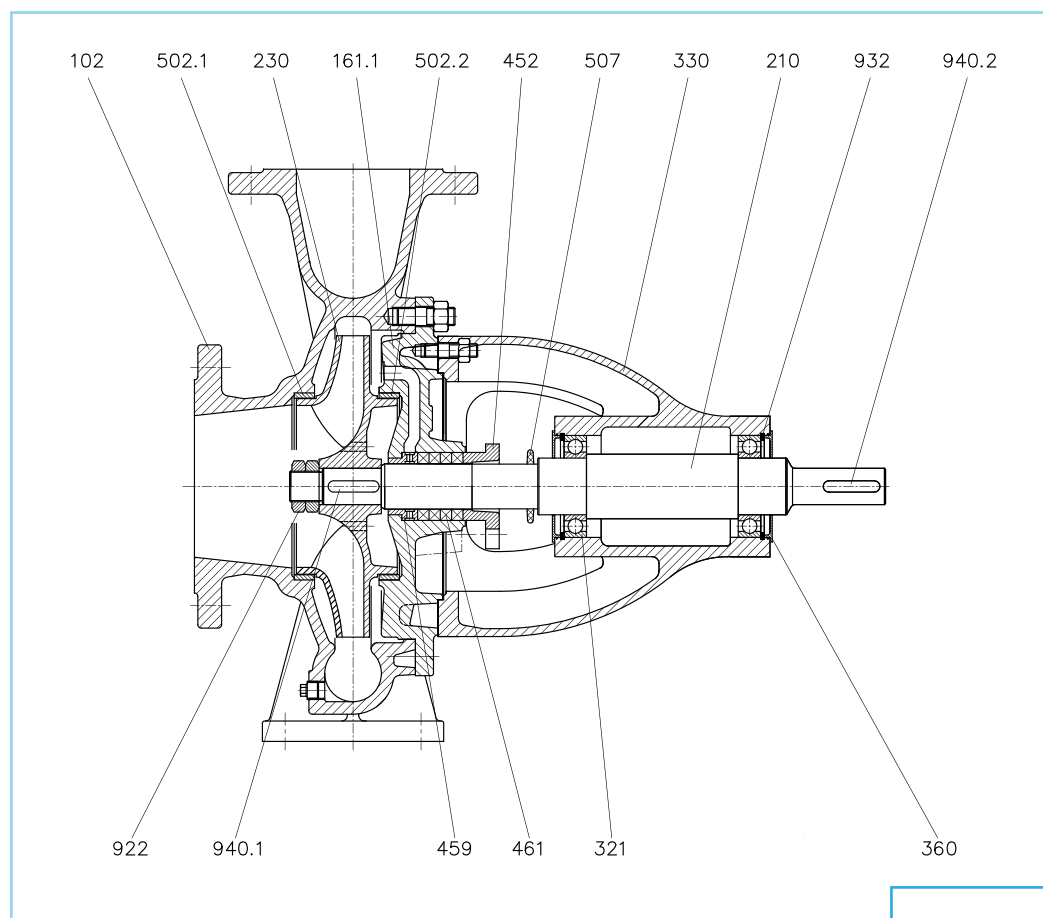
3) Maximum speeds shown apply to pumps driven via a flexible coupling (direct from motor or stub shaft with plumber blocks). Applications involving overhung pulleys must be referred to our works specifying the proposed performance data.

Applications involving higher pressures and different casing materials must be referred to our works.

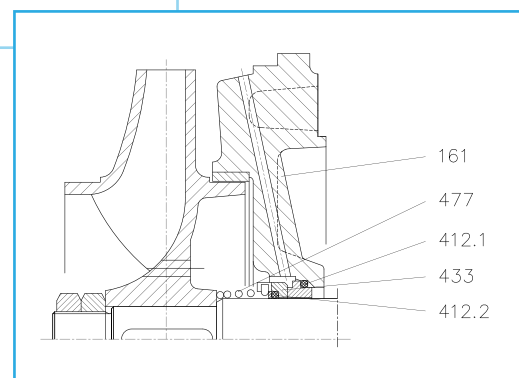
Standardized versions of materials

	Category 0	Category 2	Category 3	Category 4	Category 5	Category 13
Volute casing	Cast Iron GG25	Cast Iron GG25	CuSn10	Cast Iron GG25	Cast Iron GG25	AISI-316
Discharge cover	Cast Iron GG25	Cast Iron GG25	CuSn10	Cast Iron GG25	Cast Iron GG25	AISI-316
Impeller	Cast Iron GG25	CuSn10	CuSn10	Bronze SAE 40	Cast Iron GG25	AISI-316
Wear rings	Cast Iron GG25	CuSn10	CuSn10	Cast Iron GG25	Cast Iron GG25	AISI-316
Shaft	Ck60	AISI-304	AISI-304	AISI-420	AISI-420	AISI-316
Shaft sleeve	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Bearing bracket	Cast Iron GG25	Cast Iron GG25	Cast Iron GG25	Cast Iron GG25	Cast Iron GG25	Cast Iron GG25

Type LDP



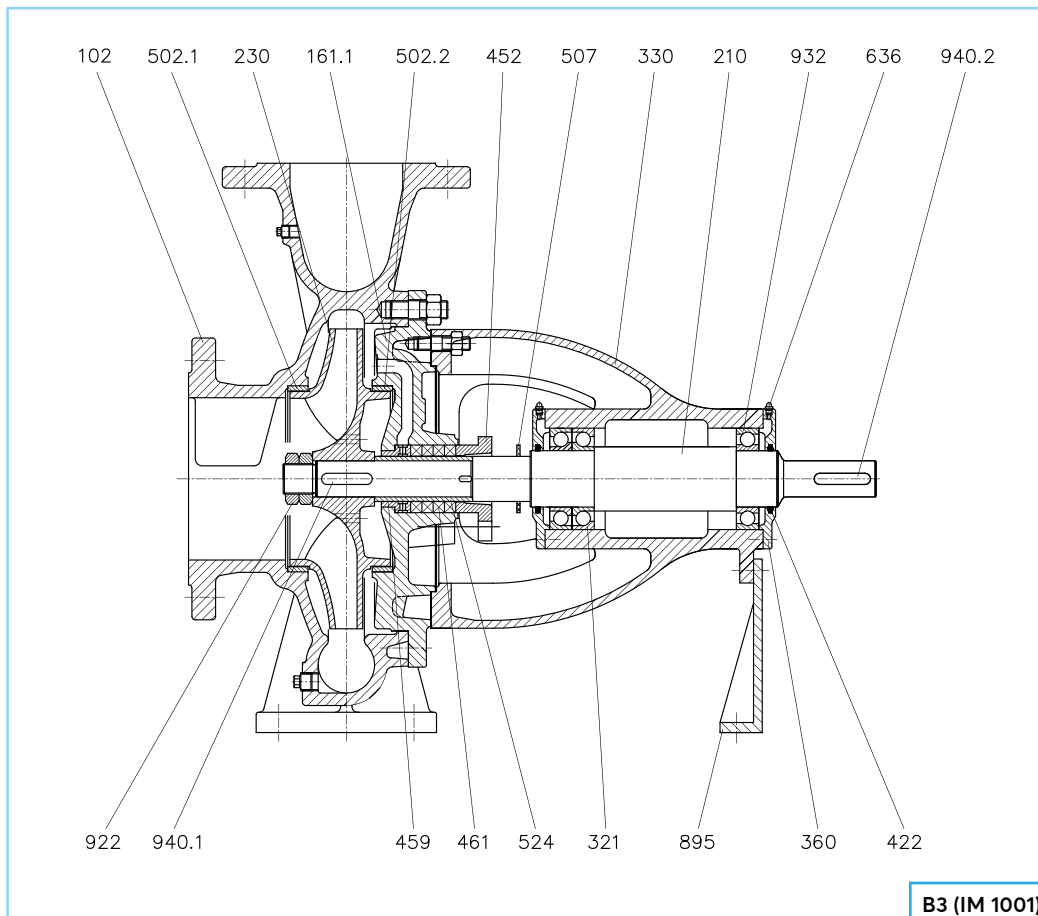
LDP type sectional view (gland packing)



Detail for mechanical seal

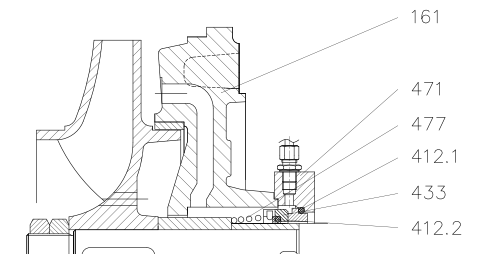
Part number to VDMA	Part name	Part number to VDMA	Part name
102	Casing	452	Stuffing box gland
161	Casing cover	459	Stuffing box bushing
210	Shaft	461	Stuffing box packing
230	Impeller	477	Spring
321	Ball bearing	502	Wear ring
330	Bearing bracket	507	Deflector
360	Bearing cover	922	Impeller nut
412	Casing O-ring	932	Retaining ring for bores
433	Mechanical seal	940	Key

Type LDP-X



LDP-X type sectional view (gland packing)

B3 (IM 1001)

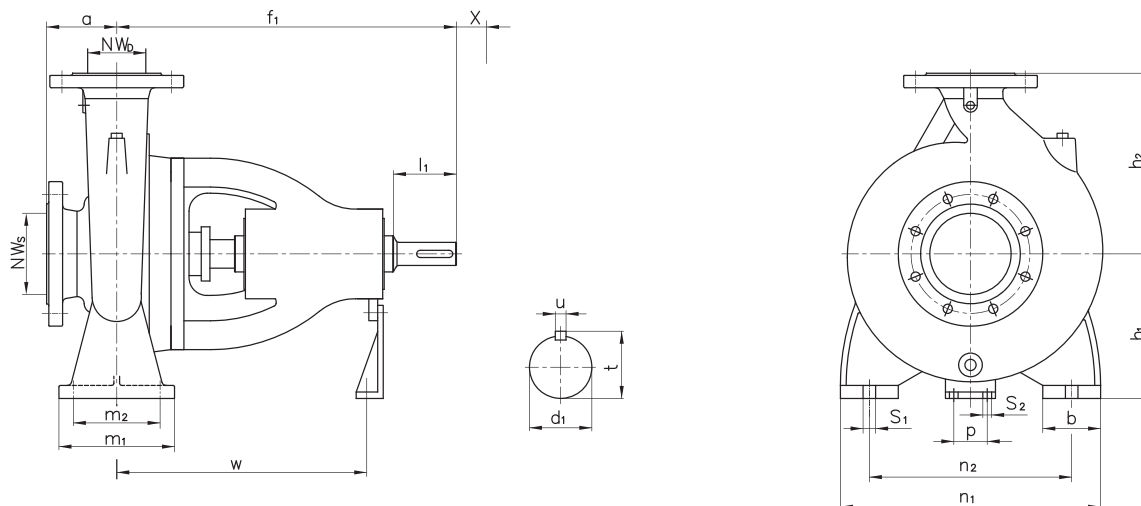


Detail for mechanical seal

Part number to VDMA	Part name	Part number to VDMA	Part name
102	Casing	461	Stuffing box packing
161	Casing cover	471	Seal cover
210	Shaft	477	Spring
230	Impeller	502	Wear ring
321	Ball bearing	507	Deflector
330	Bearing housing	524	Shaft sleeve
360	Bearing cover	636	Grease nipple
412	O-Ring	895	Supporting foot
422	Sealing ring	922	Impeller nut
433	Mechanical seal	932	Retaining ring for bores
452	Stuffing box gland	940	Key
459	Stuffing box bushing		

Bare shaft pump dimensions

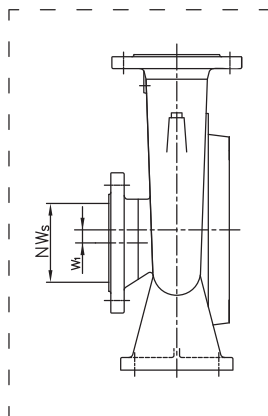
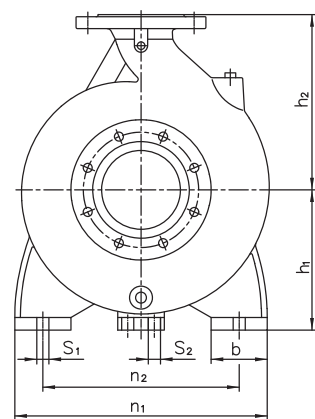
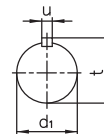
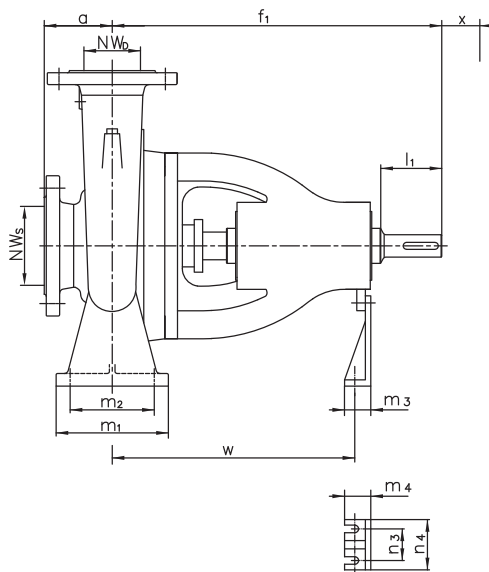
Type LDP



Pump size	Dimensions (mm)																												
	NW _s	NW _D	Length		Height		Feet & support mounting details								Shaft end					x*									
			a	f ₁	h ₁	h ₂	b	m ₁	w	p	S ₁	m ₂	n ₁	n ₂	S ₂	d ₁	l ₁	t	u										
32-125	50	32	80	360	112	140	50	100	260	110	M12	70	190	140	14	24	50	27	8	110									
32-160					132	160							240	190						80									
32-200					160	180							240	190						100									
32-250					180	225							65	125						210	160	110							
40-125	65	40	80	360	112	140	50	100	260	110	M12	70	210	160	14	24	50	27	8	110									
40-160					132	160							240	190						85									
40-200					160	180							265	212						100									
40-250					180	225							65	125						320	250	105							
40-315		50	125	470	225	250	65	125	330			95	345	280	32	80	35	10	105										
50-125			100	360	132	160						70	240	190					120										
50-160					160	180						200	265	212					90										
50-200					200	225						70	265	212					100										
50-250		50	100	360	180	225	65	125	330			95	320	250	32	80	35	10	110										
50-315					225	280						95	345	280					105										
65-125	80	65	100	360	160	180	65	125	260	110	M12	95	280	212	14	24	50	27	8	125									
65-160					200	225							320	250						100									
65-200					180	225							320	250						120									
65-250					200	250							80	160						330	M16	120	360	280	120				
65-315	100	80	125	360	225	280	80	160	330	110	M12	95	400	315	14	32	80	35	10	105									
80-160					225	280							65	125						260	320	250	24	50	27	8			
80-200					180	250							65	125						330	M16	120	345	280	32	80	35	10	150
80-250					225	280							80	160									330	M16					120
80-315	125	100	470	250	315	80	160	330	110	M16	120	400			315	14	32	80	35	10	130								
100-200				200	280							80	160	330	M16						120	360	280	32	80	35	10	155	
100-250				225	280																	80	160					330	M16
100-315				250	315							80	160	330	M20						150			500	400	32	80		
100-400	150	125	530	280		100	200	360	110	M20	150					500	400	14	42	110		45	12	150					
125-250			470	250	355	80	160	330				M16	120	400	315	32	80				35			10	160				
125-315			530	280	100	200	360	M20						150	500										400	42	110	45	12
125-400			315	315								100	200		360	M20	150				550			450	42				
150-250	200	150	470	280		100	200	360	110	M20	150			550				450	14	42	110	45	12	140					
150-315			530	315	450							100	200	360	M20	150	550	450						42	110	45	12	160	
150-400			315	450	100												200	360										M20	150

* x : Back pull-out distance required between motor shaft end & pump shaft

Type LDP-X

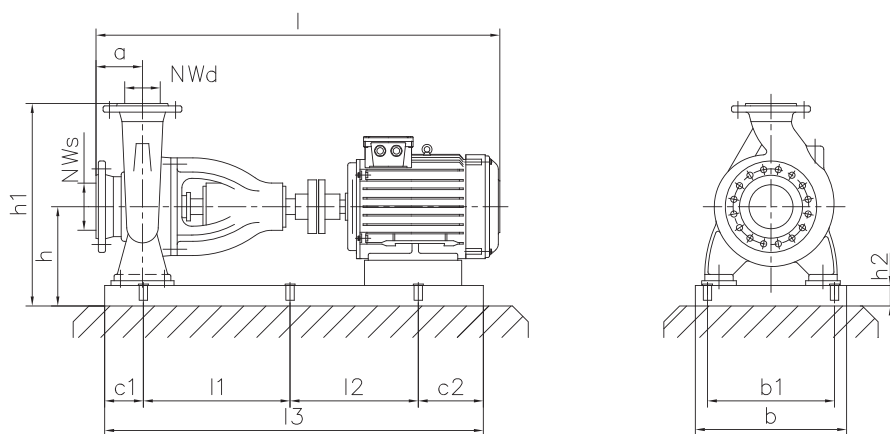
Detail only for
LDP-X 250-500

Pump size	Dimensions (mm)																						
	NW _s / NW _D	Length		Height			Feet & support mounting details														Shaft end		x*
		a	f ₁	h ₁	h ₂		w ₁	b	m ₁	m ₂	m ₃	m ₄	n ₁	n ₂	n ₃	n ₄	w	S ₁	S ₂	d ₁	l ₁		
150-200	200/150	160	470	280	370	-	100	200	150	-	-	550	450	-	-	-		-	32	80	146		
200-330	250/200	200	552	325	450	-	100	250	200	28	50	550	450	160	110	392	23	15	42	110	146		
200-400			660	370	470	-	125			45	80	700	575			465			186				
200-500			656	400	560	-	150					780	630			461			186				
250-400	300/250	250	670	370	500	-	125	150	300	240	250	700	575	160	110	475	25	15	65	156	186		
250-500		300	790	450	630	21	800					650	590			186							
300-360	350/300	250	690	400	560	-													780	630			495

* x : Back pull-out distance required between motor shaft end & pump shaft

Unit dimensions

Type LDP-H



1450 RPM

Type	Motor		Suction/ Delivery		Unit Dimensions																	
	kW	Frame	NW _s	NW _d	b	b ₁	c ₁	c ₂	a	h	h ₁	h ₂	l	l ₁	l ₂	l ₃						
32-125	0.75	80	50	32	220	160	25	25	80	192	332	80	728	0	750	800						
32-160	0.75	80	50	32	260	200				80	222	382			90	728	850	900				
32-200	0.75	80	50	32							250	430							70	767	793	843
32-250	1.1	90S	50	32	360	300			100	192		332	80		728	750	800					
	1.5	90L																475				
	2.2	100L																				
40-125	0.75	80	65	40	220	160			80	192	332	80	728		750	800						
40-160	0.75	80	65	40	260	200											222	382	90	747	850	900
	1.1	90S																				
40-200	0.75	80	65	40					250	430	70	748	767		793	850						
	1.1	90S																				
	1.5	90L																				
40-250	1.5	90L	65	40	360	300			475	70	843	978	998		1043	950	1000					
	2.2	100L																				
	3																					
40-315	3	100L	65	40					295		545	125	295		545	70	978	998	1043	950	1000	
	4	112M																				
	5.5	132S																				
50-125	0.75	80	65	50	260	200			100	222	382	90	748		767	748	767	793	850	900		
	1.1	90S																				
50-160	0.75	80	65	50																	250	430
	1.1	90S																				
	1.5	90L																				
50-200	1.5	90L	65	50					360	300	475	70	843		950	1000						
	1.5	100L																				
50-250	2.2	100L	65	50													295	575	125	295	575	100
	3																					
	4	112M																				
50-315	5.5	132S	65	50	1043	1083			1070	1120												
	7.5	132M																				
65-125	0.75	80	80	65	300	240			100	260	460	100	748		767	793	850	900				
	1.1	90S																				
	1.5	90L																				
65-160	1.1	90S	80	65					265	465	767	793	843		850	900						
	1.5	90L																				
	2.2	100L																				

1450 RPM

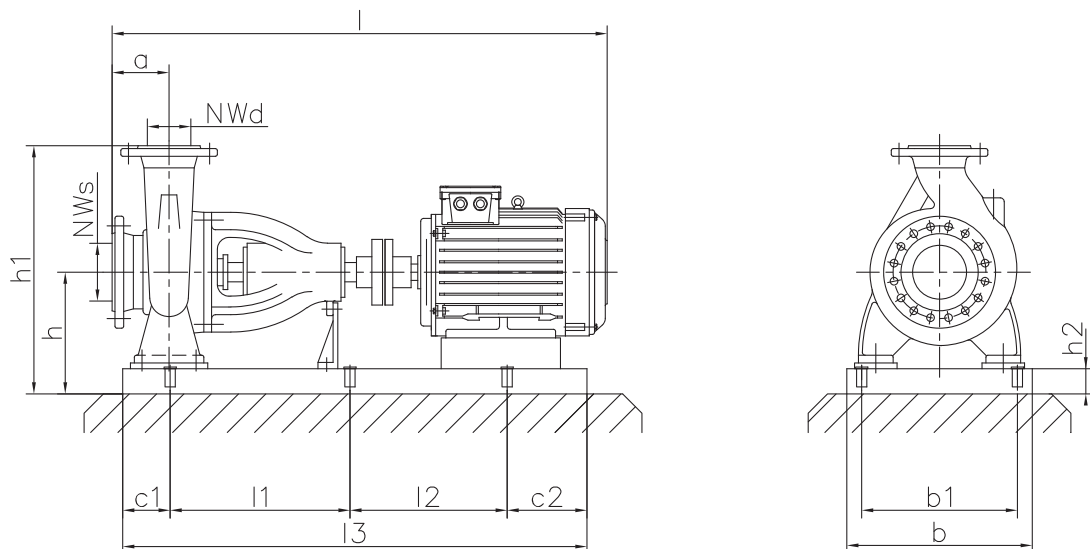
Type	Motor		Suction/ Delivery		Unit dimensions												
	kW	Frame	NW _s	NW _d	b	b ₁	c ₁	c ₂	a	h	h ₁	h ₂	l	l ₁	l ₂	l ₃	
65-200	2.2	90L	80	65	360	300			100		250	475	70	843		850	900
	3	100L												863			
	4	112M												973			
65-250	4	112M	80	65						282	532		1018		950	1000	
	5.5	132S											1043				
65-315	5.5	132S	80	65	400	340				310	590	75	1083		1100	1150	
	7.5	132M											1186				
	11	160M											818				
80-160	1.5	90L	100	80	360	300				250	475	70	863		850	900	
	2.2	100L											978				
	3												998				
80-200	3	100L	100	80							500		1043		950	1000	
	4	112M											1083				
	5.5	132S											1186				
80-250	5.5	132S	100	80	400	340				285	565		1083		1100	1150	
	7.5	132M											1186				
	11	160M											1226				
80-315	7.5	132M	100	80	400	340				327	642	75	1186				
	11	160M											1248				
	15	160L											978				
	18.5	180M											998				
100-200	3	100L	125	100	360	300				270	550	70	1043		950	1000	
	4	112M											1083				
	5,5	132S											1098				
	7.5	132M											1241				
100-250	7.5	132M	125	100						310	590		1263		1100	1150	
	11	160M											1298				
	15	160L											1358				
100-315	15	160L	125	100	400	340				325	650	75	1403		1200	1250	
	18.5	180M											1443				
	22	180L											1493				
	30	200L											1573				
100-400	22	180L	125	100	550	510	35	215		395	750	100	1593		1050	1300	
	30	200L											1663				
	37	225S											1713				
125-250	11	160M	150	125	400	340	25	25		325	640	75	1663		1100	1150	
	15	160L											1713				
	18.5	180M											1713				
	22	180L											1713				
125-315	15	160L	150	125	550	510	35	195		395	750	100	1800		1020	1300	
	18.5	180M											1800				
	22	180L											1800				
	30	200L											1800				
125-400	30	200L	150	125	650	600	110	245		455	855	120	1800		1070	1350	
	37	225S											1800				
	45	225M											1800				
	55	250M											1800				
150-315	22	180L	200	150	600	560	35	215		395	795	100	1800		1050	1300	
	30	200L											1800				
	37	225S											1800				
	45	225M											1800				
	55	250M											1800				
150-400	55	250M	200	150	690	640	110	280		435	885	120	1800		1020	1410	
	75	280S											1800				
	90	280M											1800				

Type	Motor		Suction/ Delivery		Unit dimensions																					
	kW	Frame	NW _s	NW _d	b	b ₁	c ₁	c ₂	a	h	h ₁	h ₂	l	l ₁	l ₂	l ₃										
32-125	0.75	80	50	32	220	160	25	25	80	192	332	80	728	0	750	800										
	1.1												747													
	1.5												90S				773									
	2.2												90L				773									
32-160	1.5	90S	50	32	260	200				222	382	90	747		850	900										
	2.2	90L											773													
	3	100L											823													
	4	112M											843													
32-200	3	100L	50	32						300	240		255				435	100	823							
	4	112M											252				432		843							
	5.5	132S			262	442						100	888													
	7.5	132S			7.5	160M				50	32	360	300				100	250	475	70	908	1051	950	1000		
40-125	1.1	80	65	40	220	160			80	192	332	80	728		0	750	800									
	1.5	90S											747													
	2.2	90L			773																					
	3	100L			823																					
	4	112M			823																					
40-160	3	100L	65	40	260	200				202	342	90	843			850	900									
	4	112M											222					382	100	888						
	5.5	132S			232	392							100					888								
40-200	4	112M	65	40	300	200							252					432	90	863	100	262	442	100	908	950
	5.5	132S								262	410	70								1051						
	7.5	160M								230	410									908						
	40-250	5.5			132S	65				40	360	300								250					475	
7.5		160M	1051																							
11		160M	1051																							
15		160M	1051																							
50-125	2.2	90L	65	50	260	200			80	222	382	90	753			0	850	900								
	3	100L											843													
	4	112M			863																					
	5.5	132S			232	392							100						908							
	7.5	132S			252	432				90	863															
50-160	4	112M	65	50	260	200				262	442	100	908				950	1000								
	5.5	132S			300	240																				
	7.5	132S			360	300																				
	11	160M			360	300																				
50-200	7.5	132S	65	50	300	240				230	430	70	1051						1051	950		1000				
	11	160M											262										462	100	948	
	15	160M											230										430	1051		
	50-250	11			160M	65			50				360										300	250	475	70
15		160L	1117																							
18.5		160L	863																							
22		180M	908																							
65-125	4	112M	80	65	300	240			80	262	442	100	863				850	900								
	5.5	132S											908													
	7.5	132S			230	410							70						1051	950		1000				
	11	160M			262	442							100						908	850		900				
65-160	7.5	132S	80	65	300	240				230	410	70	1051				1094	1070	1120							
	11	160M			360	300							950							1000						
	15	160M			360	300							950							1000						
	18.5	160L			360	300							950							1000						

2900 RPM

Type	Motor		Suction/ Delivery		Unit dimensions												
	kW	Frame	NW _s	NW _d	b	b ₁	c ₁	c ₂	a	h	h ₁	h ₂	l	l ₁	l ₂	l ₃	
65-200	11	160M	80	65	360	300	25	25	100	250	475	70	1051	0	950	1000	
	15												1094		1070	1120	
	18.5	160L									1151		1100		1150		
	22	180M									1211						
	30	200L			400	340				510	1161						
65-250	15	160M	80	65	360	300	130	260	100	285	535	70	1161	0	1200	1250	
	18.5	160L								1201	1223						
	22	180M								280	530		1223				
	30	200L			400	340				285	535	75	1318				
	37				580	530				130	260	345	595		120	1388	910
	45	225M															
80-160	11	160M	100	80	360	300	25	25	125	250	475	70	1086	0	950	1000	
	15												1126				
	18.5	160L									1148		1070		1120		
	22	180M									1186						
80-200	15	160M	100	80	360	300	25	25	125	250	500	70	1186	0	1200	1250	
	18.5	160L											1226				1283
	22	180M									1343		1413				1343
	30	200L			400	340				285	565	75	1413				
	37				580	530				345	625		1413				
80-250	30	200L	125	80	400	340	130	280	125	285	565	75	1413	0	890	1300	
	37				580	530				345	625		1413				
	45	225M			630	580				100	245	370	650		120	1498	955
	55	250M			710	660				35	250	415	695			1568	1135
	75	280S															
100-200	18.5	160L	125	100	360	300	25	25	125	285	565	70	1226	0	1200	1250	
	22	180M								280	560		1273				
	30	200L			400	340				285	565	75	1343				
	37									295	575	55	1393		1250	1300	
	45	225M			470	350				320	600		1538		1380	1430	
	55	250M			520	400											
100-250	55	250M	125	100	620	570	100	250	140	408	688	140	1553	0	960	1310	
	75	280S								436	716		1588		990	1350	
	90	280M			680	630		285		495	775		160		1673	1015	1400
	110	315S						620		280	495	775	160		1673	1705	1040

Type LDP-X



1450 RPM

Type	Motor		Suction/ Delivery		Unit dimensions													
	kW	Frame	NW _s	NW _d	b	b ₁	c ₁	c ₂	a	h	h ₁	h ₂	l	l ₁	l ₂	l ₃		
150-200	5.5	132S	200	150	710	650	120	240	160	360	730	80	1124	0	740	1100		
	7.5	132M						220					1154		760			
	11	160M						210					1244		820		1150	
200-330	15	160L	250	200			250	405	855	100	1411		900		1300			
	18.5	180M									225	1436	925		1350			
	22	180L									270	1476	930		1350			
	30	200L					300	425	875		1516	950	1400					
	37	225S					250			1581		1000	1450					
	45	225M					300			1606			1500					
	55	250M					350			1681								
	75	280S			400		445	895	120	1726	1100	1650						
	90	280M								1766								
200-400	30	200L	250	200	860	800	150	350	200	470	940	100	1624	0	1000	1500		
	37	225S						240					1689		1110			
	45	225M						300					1714		1100		1550	
	55	250M						350					1789		1100	1600		
	75	280S						490		960	120	1834	1200		1700			
	90	280M										1874						
	110	315S						400		510	980	140	2054		1300	1750		
	132	315M											2164					
200-500	37	225S	250	200	940	880		250			500	1060	100		1685		1100	1500
	45	225M						300							1710			
	55	250M					350							1785	1200		1700	
	75	280S					520	1080	120		1830							
	90	280M									1870							
	110	315S					400	540	1100		140	2050	1300	1750				
	132	315M					450					2160						
	160	315L					400					2160						
	250	355M					450		580		1140	180	2430	750	750	2100		
	315	355L											2430					
250-400	37	225S	300	250	860	800	150	230	250	470	970	100	1749	0	1120	1500		
	45	225M						300					1774		1100			
	55	250M						350					1849		1150		1600	
	75	280S						490		990	120	1894	1200		1700			
	90	280M										1934						
	110	315S										400				2114		
	132	315M						450		510	1010	140	2224		1300	1900		
								550										
250	355M	2494	750	2200														

1450 RPM

Type	Motor		Suction/ Delivery		Unit dimensions															
	kW	Frame	NW _s	NW _d	b	b ₁	c ₁	c ₂	a	h	h ₁	h ₂	l	l ₁	l ₂	l ₃				
250-500	45	225M	300	250	960	900	170	280	300	550	1180	100	1944	0	1250	1700				
	55	250M						380		570	1200	120	2019		1300	1750				
	75	280S											2064			1850				
	90	280M											2104							
	110	315S						330		590	1220	140	2284	700	1400	1900				
	132	315M						430		630	1260	180	2394		700	2000				
	250	355M						580					2664		750	750	2250			
	315	355L						830							650	1280	200	650	650	2300
	400	400						630		670	1300	220	2975	900	900	2600				
300-360	45	225M	350	300	940	880	170	280	250	500	1060	100	1794	0	1150	1600				
	55	250M						430		520	1080	120	1869		1200	1650				
	75	280S											1914			1800				
	90	280M											1954							
	110	315S						330		540	1100	140	2134	700	1300	2000				
	132	315M						430		580	1140	180	2244		700		700			
	250	355M						530					580		1140	180	2514	750	750	2200
	315	355L						600					1160		200	2825	850	850	2500	
	400	400						630		620	1180	220	2825	850	850	2500				



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