Side Channel pumps

Self-priming, segmental type

ADHL/CDHL 0801 ... 2504
AEHL 0805 ... 0808

Technical data

Capacity:	from 0,3 up to 7,2 m³/h
Head:	from 20 up to 400 m
Speed:	2900 rpm (max. 3400 rpm for ADH 0800/0900)
Temperature:	max. 120 °C
Casing pressure:	PN 25 for ADHL/CDHL PN 40 for AEHL
Shaft sealing:	stuffing box or standard mechanical seal
Flange connections:	DIN 2501 / PN 25 and PN 40
Direction of rotation:	clockwise (when seen from the drive end)

Application

The Sterling SIHI ADHL/AEHL and CDHL pumps are self-priming side channel pumps capable of handling gas along with the medium and operates at a low noise level.

The ADHL/AEHL series are used to handle clear or turbid liquids, under high heads and without any abrasive particles, reliably and trouble-free. The CDHL with NPSH-improving inducer stage are used when liquids under critical suction conditions have to be handled reliably and trouble-free.
With these pumps a safe and efficient pumping service can be achieved even if the net positive suction head available is low.

The number of hydraulic stages are as is customary in the boiler industry.

The performance curve steepness admits a precise regulation of the pressure with a small change in capacity.

The pumps are used in;
- Boiler industry for condensate and boiler feed water handling,
- Washing, cleaning and spraying plants,
- Dry cleaning.

Design

The pumps of the ADHL/AEHL and the CDHL series have a segmental construction with open vane wheel impellers.

The CDHL pumps (combination pumps) are equipped with open impellers as well as a suction side centrifugal stage for attaining superior characteristics with respect to the Net Positive Suction Head (NPSH).

The pumps of the ADHL/CDHL/AEHL series are side channel pumps of the high-speed type that have been designed with special regard to noiseless running. The program comprises 6 sizes.

Construction

Casing pressure

Maximum 25 bar from 0 °C up to +120 °C for ADHL/CDHL
Maximum 40 bar from 0 °C up to +120 °C for AEHL

Please observe
Technical rules and safety regulations:
Casing pressure = inlet pressure + delivery head at minimum pump capacity.

Position of branches

Suction and discharge branch point radially upwards.

Flanges

The flanges correspond to DIN EN 1092-2, PN 25 for ADHL/CDHL and PN 40 for AEHL. Flanges drilled according to ANSI 150 or 300 lbs are basically possible.

Bearing

One grease lubricated ball bearing according to DIN 625 and one liquid surrounded sleeve bearing (design A). The first grease filling is done in the factory.

Direction of rotation

Clockwise, when looking at the pump from the drive end.

Shaft sealing

The shaft can be sealed by a stuffing box or a standard mechanical seal.

Material design ADHL/AEHL/CDHL

Pos	Components	Material design 0A
1060	Suction casing	EN-GJL-250
1070	Discharge casing	
1090, 1140 1080, 1110	Intermediate piece	
2100	Shaft	X 20 Cr 13
2310	Impeller	85 Cu 9 SnZn
2350	Vane wheel impeller	CuZn 40 Al 2
0241	Bearing bush	EK 2203

Casing seal

The casing is sealed with a liquid sealing compound.

Drive / speed

By electric motor, type of constructionIM B3.
For pump size ADHL 0800/0900 with 1 to 4 stages, speed up to max. 3400 rpm is allowed.

General comments

In case of greater delivery heads and capacity we recommend the **CEH** heavy-duty pump with inducer stage for the handling of condensates and liquid gasses (PN 40).

Technical documentation about this pump series will be readily supplied on request.

Performance range ADHL/AEHL/CDHL

General conditions

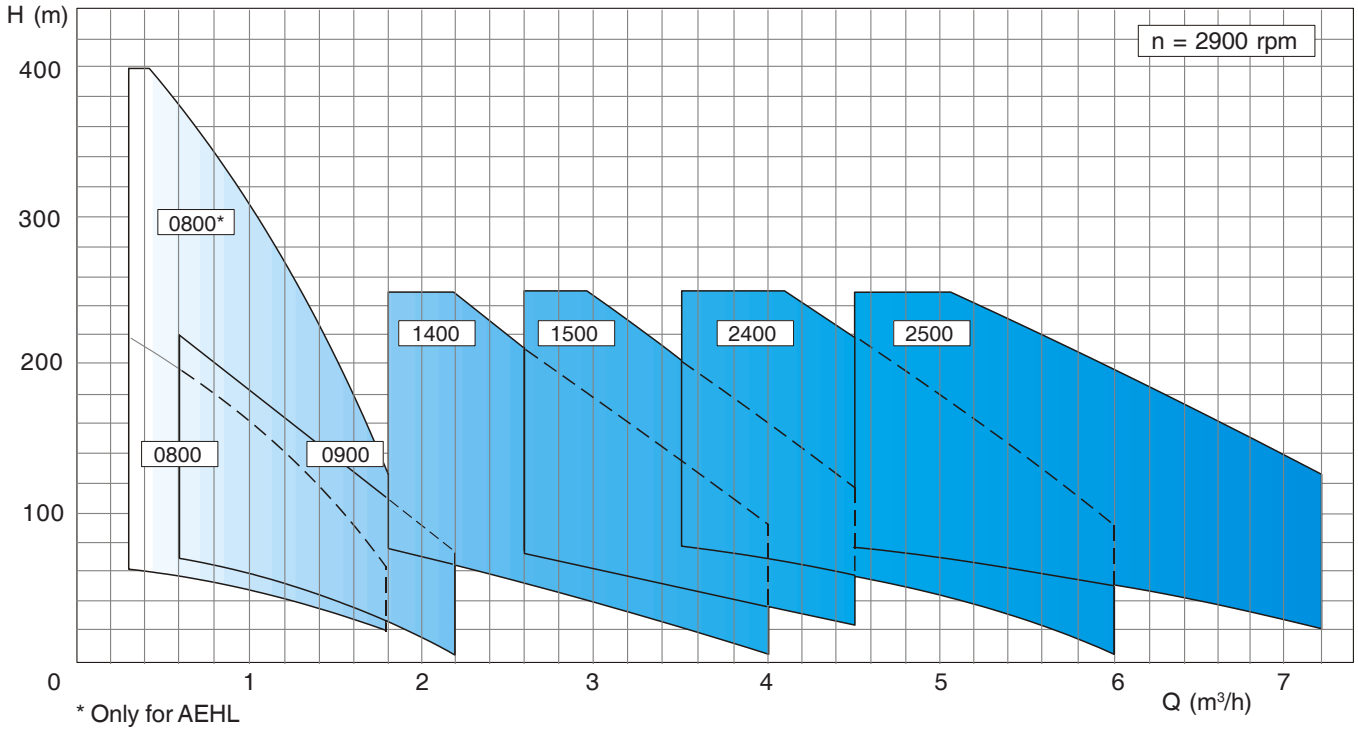
Liquid:	Water
Density:	1 kg/dm³
Viscosity:	1 cSt
Temperature:	20 °C
Atmospheric pressure:	1013 mbar

Characteristic tolerances

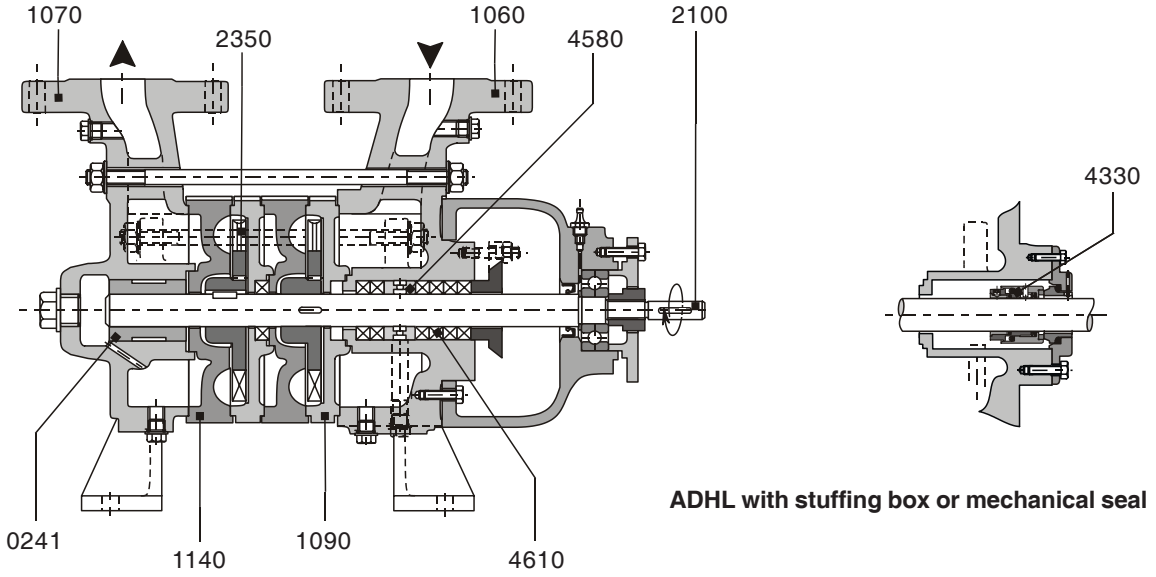
Capacity ± 5% - Delivery head ± 5% - Power + 10%
For designs with a mechanical seal or a casing seal of soft Teflon, the tolerance for the delivery head is extended by 2% each.

Measuring standard

According to ISO 5198

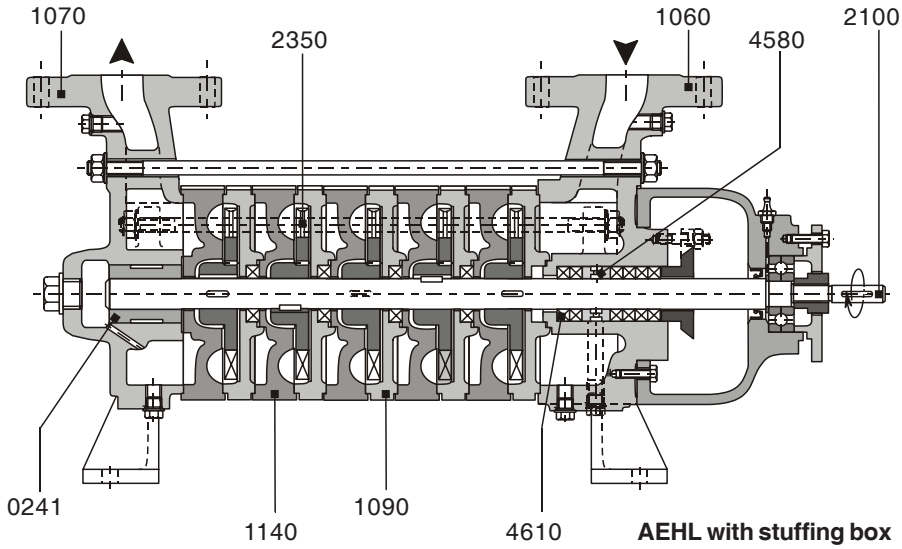


Sectional drawing and parts list ADHL/AEHL/CDHL (typical)

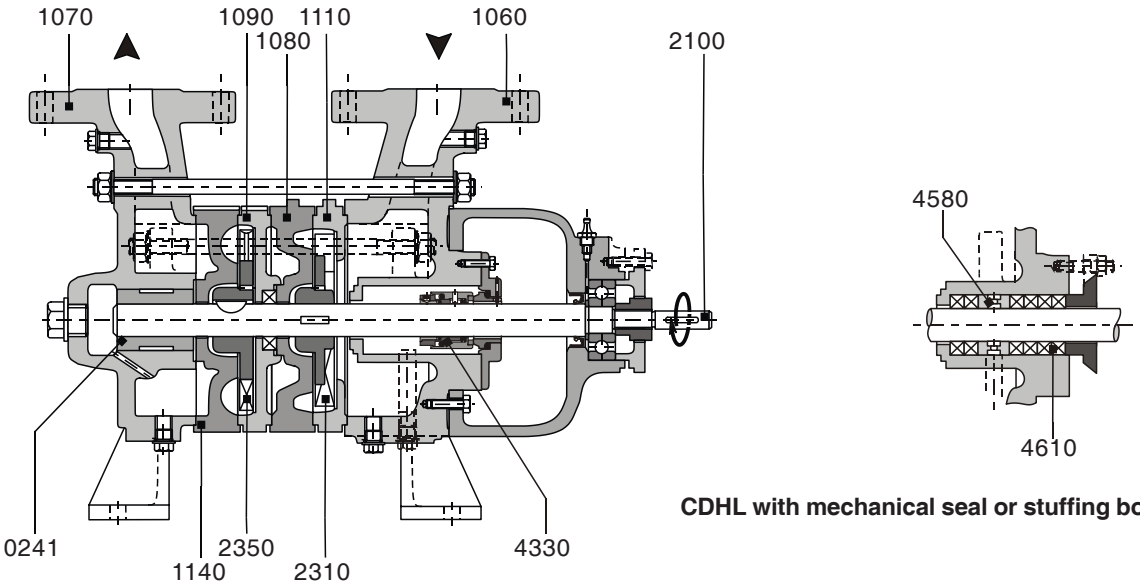


ADHL with stuffing box or mechanical seal

Pos.	Components
0241	Bearing bush
1060	Suction casing
1070	Discharge casing
1080	Discharge intermediate piece
1090	Suction intermediate piece
1110	Suction intermediate piece
1140	Discharge intermediate piece
2100	Shaft
2310	Impeller
2350	Vane wheel impeller
4330	Mechanical seal
4580	Lantern
4610	Stuffing box



AEHL with stuffing box



CDHL with mechanical seal or stuffing box

All possible design combinations can be found in the delivery program

Selection chart for boiler feed pumps

Heating surface, m²		3	6	9	12	15	20	25	30	40	50	60	70	80	90
steaming capacity, kg/h		120	240	360	480	600	800	1000	1200	1600	2000	2400	2800	3200	3600
boiler service pressure bar	6	0802 1.1 kW C 0801 0.75 kW	0802 1.1 kW C 0801 0.75 kW	0802 1.1 kW C 0801 0.75 kW	0802 1.1 kW	0802 1.1 kW C 0901 1.1 kW	0802 1.1 kW	0803 1.5 kW C 0902 1.5 kW	0903 1.5 kW C 0902 1.5 kW	1402 2.2 kW C 1401 2.2 kW	1402 2.2 kW	1403 3.0 kW C 1402 2.2 kW	1502 3.0 kW	2402 4.0 kW	2403 5.5 kW C 2402 4.0 kW
	8	0802 1.5 kW	0802 1.5 kW	0802 1.5 kW	0802 1.5 kW	0802 1.5 kW	0803 1.5 kW C 0802 1.5 kW	0804 1.5 kW C 0803 1.5 kW	0904 2.2 kW C 0903 2.2 kW	1402 3.0 kW	1402 3.0 kW	1403 3.0 kW C 1502 3.0 kW	1503 4.0 kW	2402 4.0 kW C 2402 5.2 kW	2403 5.5 kW
	10	0803 2.2 kW C 0802 1.5 kW	0803 2.2 kW C 0802 1.5 kW	0803 2.2 kW C 0802 1.5 kW	0803 2.2 kW C 0802 1.5 kW	0803 2.2 kW C 0802 1.5 kW	0803 2.2 kW	0903 2.2 kW C 0804 2.2 kW	0904 2.2 kW C 0903 2.2 kW	1402 3.0 kW	1403 3.0 kW C 1403 3.0 kW	1503 4.0 kW	1504 4.0 kW C 1504 5.5 kW	2403 5.5 kW C 2403 7.5 kW	2404 7.5 kW
	12	0803 2.2 kW	0803 2.2 kW	0803 2.2 kW	0803 2.2 kW	0803 2.2 kW	0804 2.2 kW	0904 3.0 kW	1402 3.0 kW C 1402 4.0 kW	1403 4.0 kW	1403 4.0 kW	1503 4.0 kW C 1503 5.5 kW	1504 5.5 kW	2403 5.5 kW C 2403 7.5 kW	2503 7.5 kW C 2404 7.5 kW
	14	0803 2.2 kW	0803 2.2 kW	0804 2.2 kW C 0804 2.2 kW	0804 2.2 kW C 0903 3.0 kW	0804 2.2 kW C 0903 3.0 kW	0805 3.0 kW C 0804 2.2 kW	0807 3.0 kW C 1402 4.0 kW	1403 4.0 kW	1403 4.0 kW	1404 4.0 kW	1504 5.5 kW C 1503 5.5 kW	2403 7.5 kW	2404 7.5 kW C 2403 7.5 kW	2503 11.0 kW
	16	0804 2.2 kW	0804 2.2 kW C 0804 3.0 kW	0804 2.2 kW C 0804 3.0 kW	0804 2.2 kW C 0804 3.0 kW	0804 2.2 kW C 0804 3.0 kW	0805 3.0 kW C 0904 3.0 kW	0807 4.0 kW C 1403 5.5 kW	1403 4.0 kW C 1403 5.5 kW	1403 4.0 kW C 1403 5.5 kW	1403 4.0 kW	1504 5.5 kW	2403 7.5 kW	2404 11.0 kW	2503 11.0 kW
	18	0804 3.0 kW	0804 3.0 kW	0805 3.0 kW C 0804 3.0 kW	0805 3.0 kW C 0804 3.0 kW	0805 3.0 kW C 0804 3.0 kW	0806 3.0 kW C 1402 5.5 kW	0808 4.0 kW C 1403 5.5 kW	1403 5.5 kW	1404 5.5 kW	1504 7.5 kW C 1503 7.5 kW	2403 11.0 kW C 1503 7.5 kW	2404 11.0 kW	2503 11.0 kW	2504 11.0 kW
	20	0805 3.0 kW C 0904 4.0 kW	0805 3.0 kW C 0904 4.0 kW	0805 3.0 kW C 0904 4.0 kW	0805 3.0 kW C 0904 4.0 kW	0805 3.0 kW C 1404 5.5 kW	0806 3.0 kW C 1402 5.5 kW	1403 5.5 kW C 1404 5.5 kW	1403 5.5 kW C 1404 5.5 kW	1404 5.5 kW	1504 7.5 kW	2404 11.0 kW	2404 11.0 kW	2504 11.0 kW	2504 11.0 kW
	22	0805 3.0 kW	0805 3.0 kW	0805 3.0 kW	0806 4.0 kW	0806 4.0 kW	0806 4.0 kW								
	24	0806 4.0 kW	0806 4.0 kW	0806 4.0 kW	0806 4.0 kW	0806 4.0 kW	0808 4.0 kW								
	26	0806 4.0 kW	0806 4.0 kW	0806 4.0 kW	0807 4.0 kW	0807 4.0 kW									
	28	0807 4.0 kW	0807 4.0 kW	0807 4.0 kW	0807 4.0 kW	0808 5.5 kW									
	30	0807 4.0 kW	0807 4.0 kW	0807 4.0 kW	0808 5.5 kW	0808 5.5 kW									
	32	0808 5.5 kW	0808 5.5 kW	0808 5.5 kW	0808 5.5 kW										

Remarks:

When designing and dimensioning the pumps, the regulations concerning the fitting out and erection of steam generators (TRD 401) have been adhered to.

For the determination of the boiler capacity, a generated steam volume per hour of 40 kg/m² of heating surface has been taken as a base. The pumps are capable of a feed-water service for 1,6 times the steaming capacity and they can overcome 1,2 times the service pressure. Under such conditions, the motors provided are not fully charged.

Example:

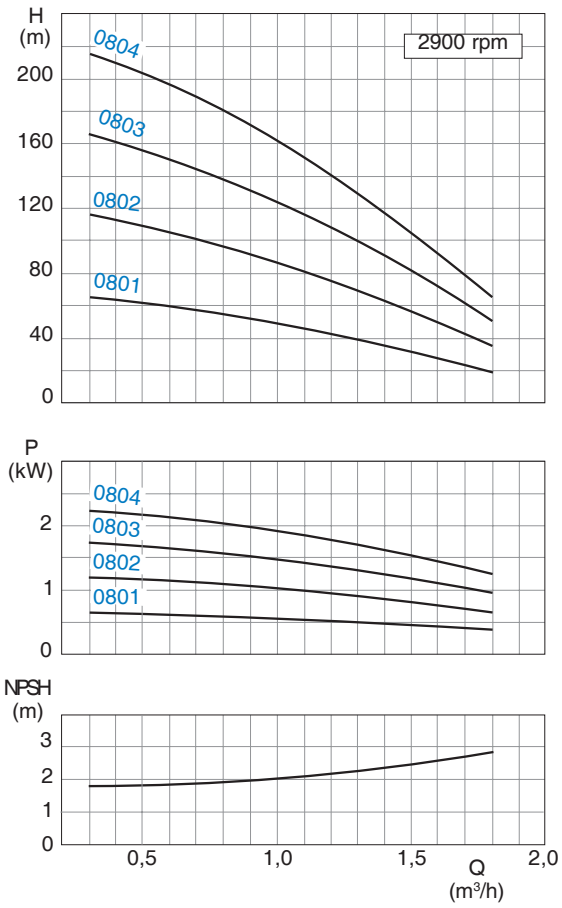
Required:
boiler pressure 12 bar
heating surface 30 m²
steaming capacity 1200 kg/h

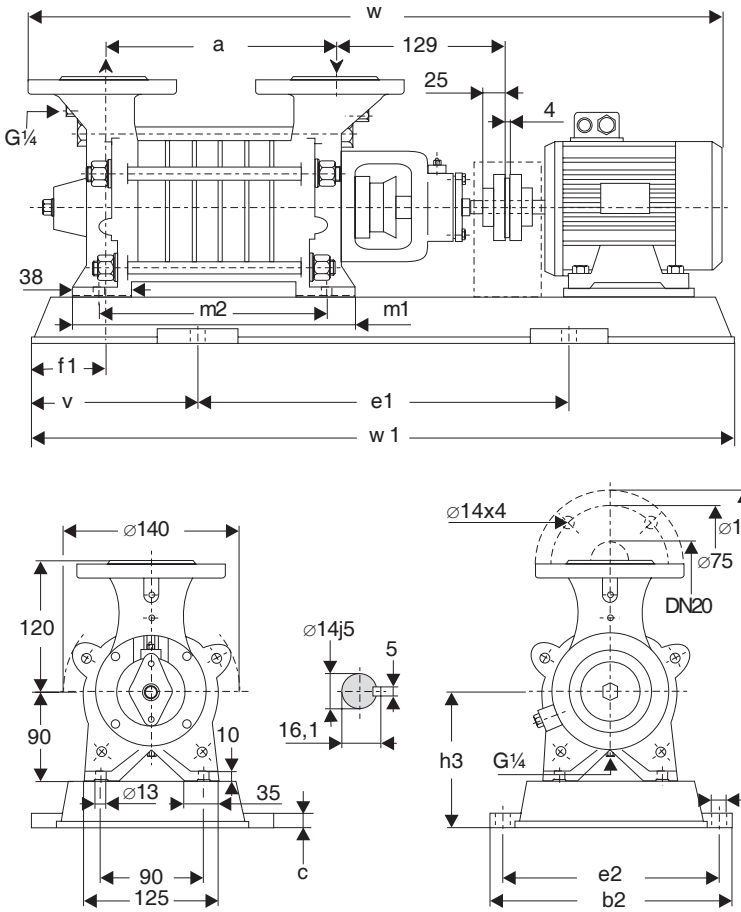
The selection table gives:
pump size ADHL 1402 respectively CDHL 1402
motor power 3 kW respectively 4 kW

If there is a „C“ before the number of the pump size given by the selection table then the conditions of the operating point can also be complied with a pump of the series CDHL.

Dimension chart, Pump set drawing and Performance curves

ADHL 0800





General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

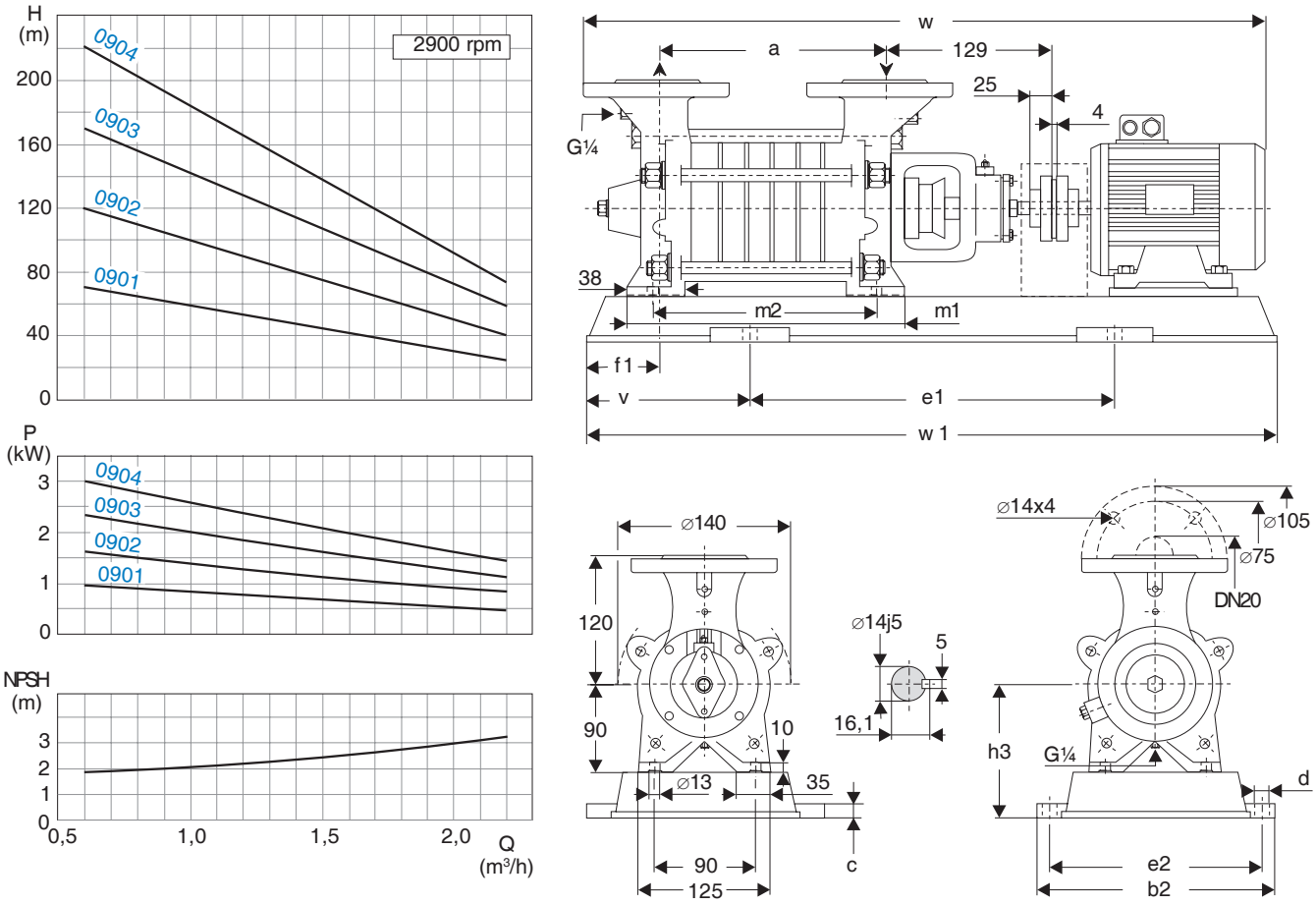
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
0801	0.55	71	P006	B68	8	28	109	312	20	15	320	280	100	42	125	142	112	534	520
	0.75	80				30												568	
0802	1.1	80	P007	B68	11	35	143	317	20	15	350	285	110	42	125	176	146	602	570
	1.5	80	P008			43		297			400	265	120		130			660	640
0803	1.5	80	P008	B68	13	43	177	297	20	15	400	265	120	42	130	210	180	694	640
	2.2	90S				47													
0804	1.5	90S	P210	B68	16	47	211	300	25	19	420	260	115	42	155	244	214	728	650
	2.2	90L	P241			54		330			480	290	125		165			769	730
	3	100L		B80		61													

* Dimensions depend upon the motor brand.

Dimension chart, Pump set drawing and Performance curves

ADHL 0900



General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

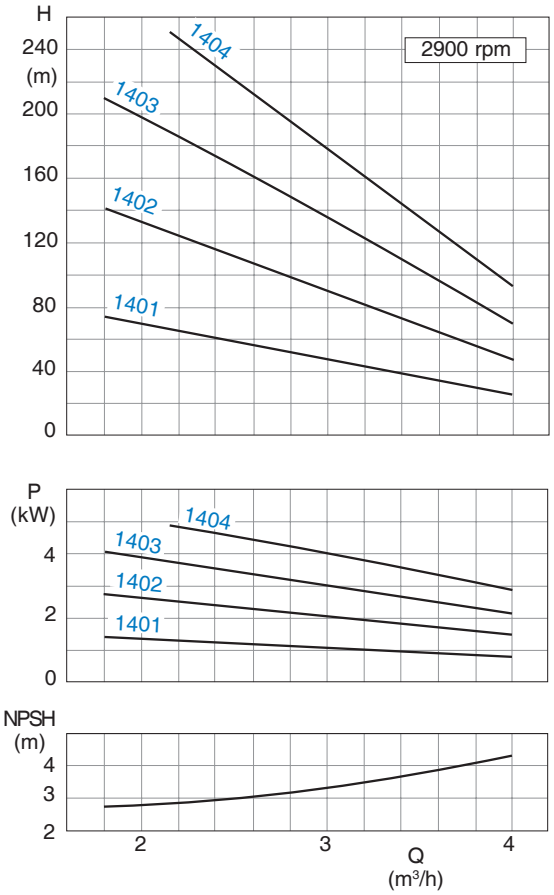
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

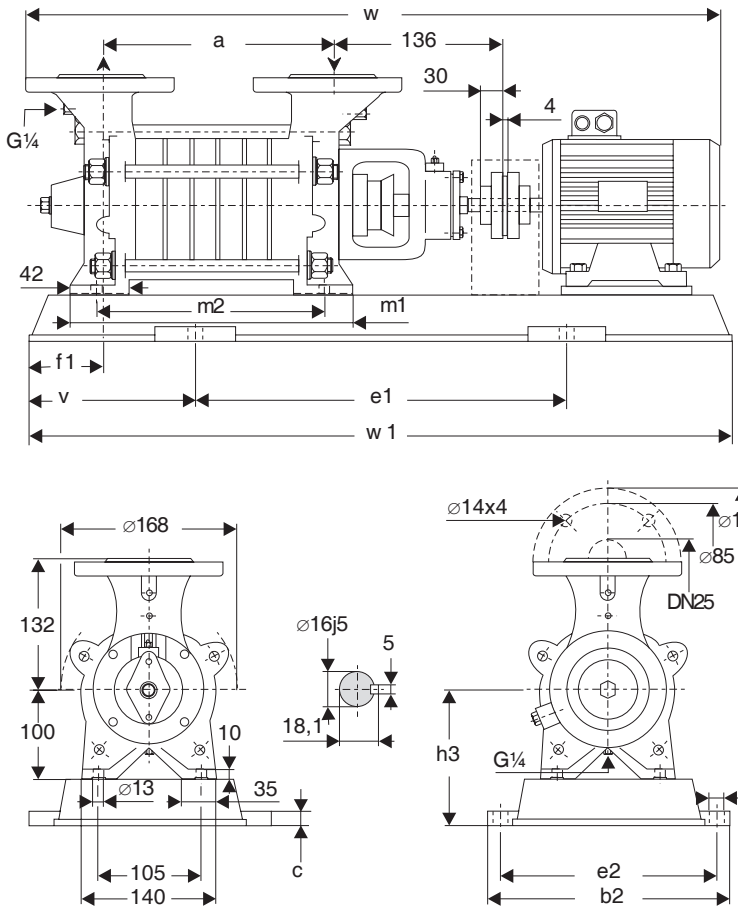
Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
0901	0.75	80	P006	B68	8	30	109	312	20	15	320	280	100	42	125	142	112	568	520
	1.1	80				31													
0902	1.5	90S	P008	B68	11	43	143	297	20	15	400	265	120	42	130	176	146	660	640
	2.2	90L				47													
0903	2.2	90L	P008	B68	13	47	177	297	20	15	400	265	120	42	130	210	180	694	640
	3	100L	P210	B80		55		300	25	19	420	260	115		165			735	650
0904	2.2	90L	P241	B68	16	54	211	330	25	19	480	290	125	42	155	244	214	728	730
	3	100L		B80		60									165			769	
	4	112M				77									177			790	

* Dimensions depend upon the motor brand.

Dimension chart, Pump set drawing and Performance curves

ADHL 1400





General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

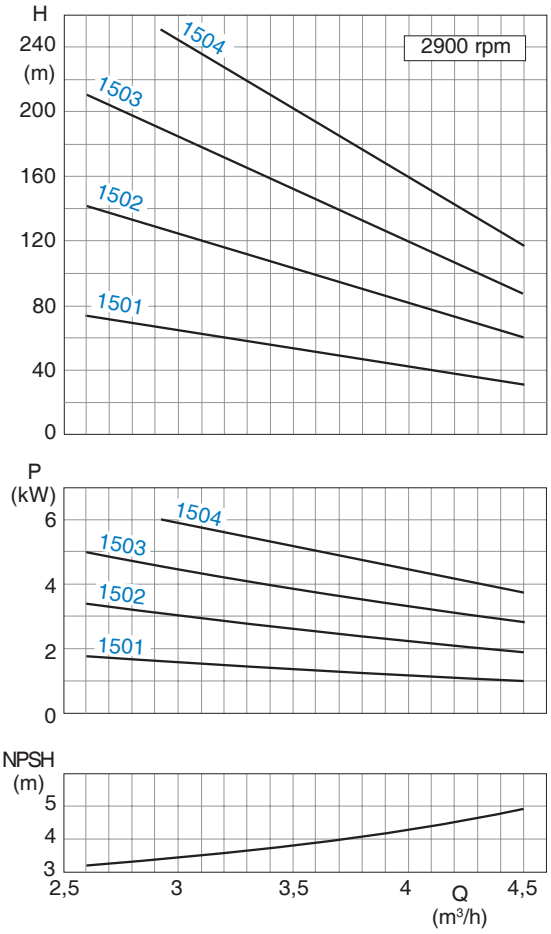
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

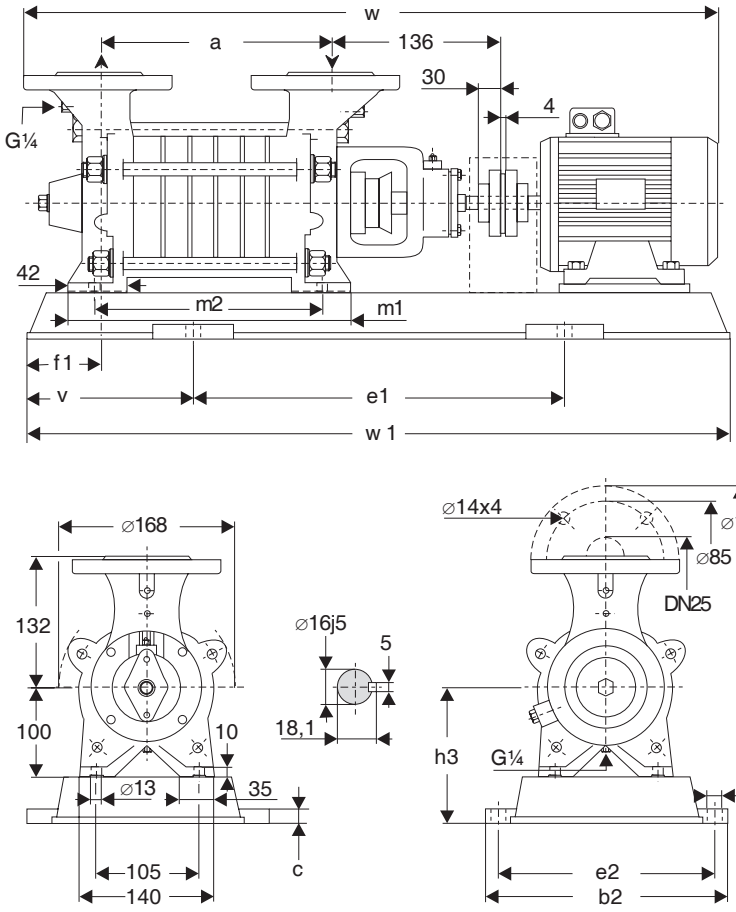
Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
1401	1.1	80	P007	B68	12	36	130	317	20	15	350	285	110	34	135	152	118	601	570
	1.5	90S				40												659	
1402	2.2	90L	P008	B68	15	49	166	297	20	15	400	265	120	34	140	188	154	695	640
	3	100L		B80		54												736	
1403	3	100L	P241	B80	17	61	202	330	25	19	480	290	125	34	130	224	190	772	730
	4	112M				74									165			793	
	5.5	132S	P272	B95		102		360			540	320	140		155			869	820
1404	4	112M	P241	B80	20	81	238	330	25	19	480	290	125	34	177	260	226	829	730
	5.5	132S	P272	B95		111		360			540	320	140		197			905	820

* Dimensions depend upon the motor brand.

Dimension chart, Pump set drawing and Performance curves

ADHL 1500





General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

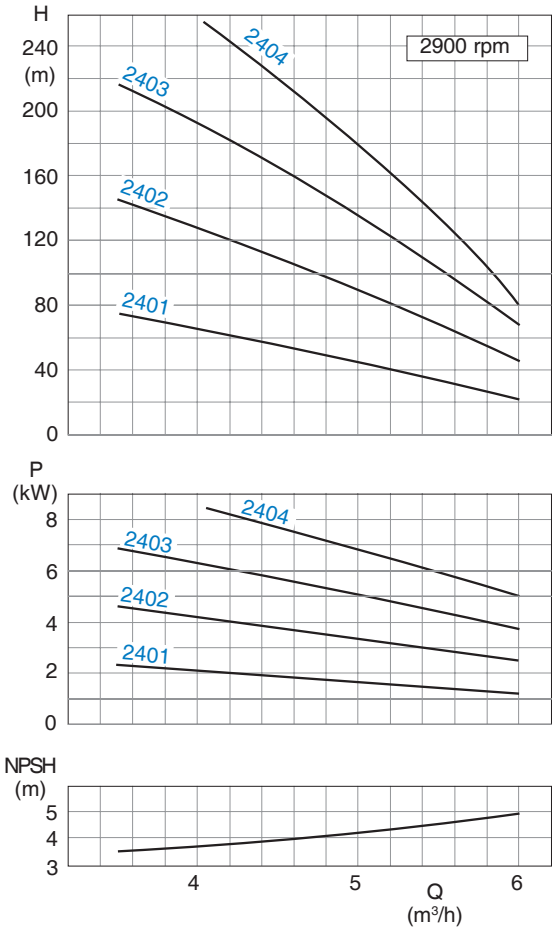
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

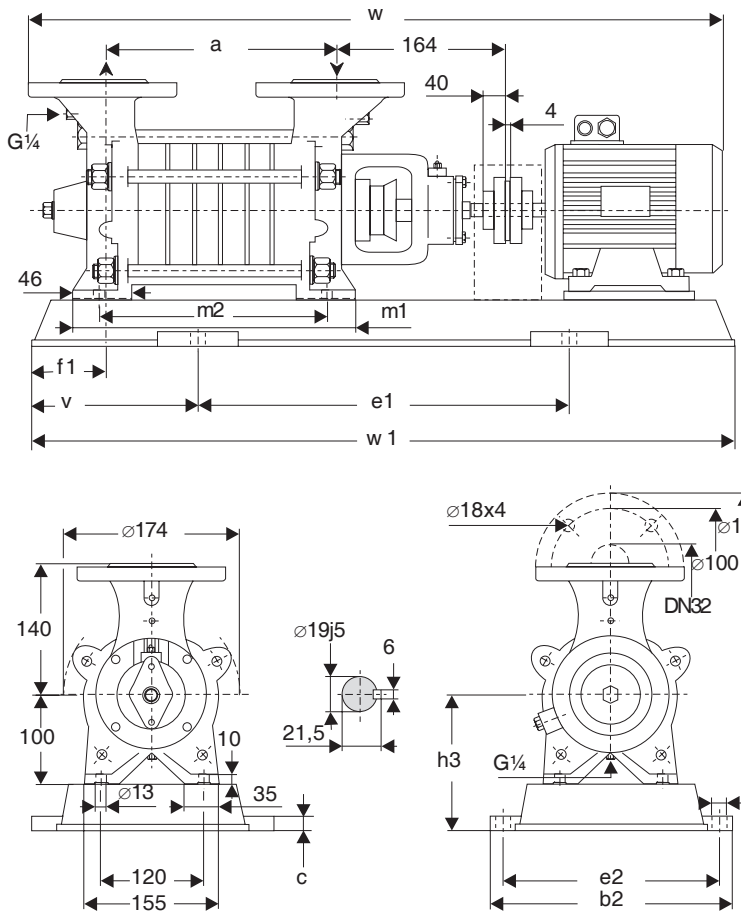
Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
1501	1.5	90S	P007	B68	12	40	130	317	20	15	350	285	110	34	135	152	118	659	570
	2.2	90L				44													
1502	3	100L	P008	B80	15	56	166	297	20	15	400	265	120	34	140	188	154	736	640
	4	112M	P270			79		360	25	19	420	320	115		177			757	650
1503	4	112M	P241	B80	17	78	202	330	25	19	480	290	125	34	177	224	190	793	730
	5.5	132S	P272	B95		96		360			540	320	140		197			869	820
1504	5.5	132S	P272	B95	20	101	238	360	25	19	540	320	140	34	197	260	226	905	820
	7.5	132S				105													

* Dimensions depend upon the motor brand.

Dimension chart, Pump set drawing and Performance curves

ADHL 2400





General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

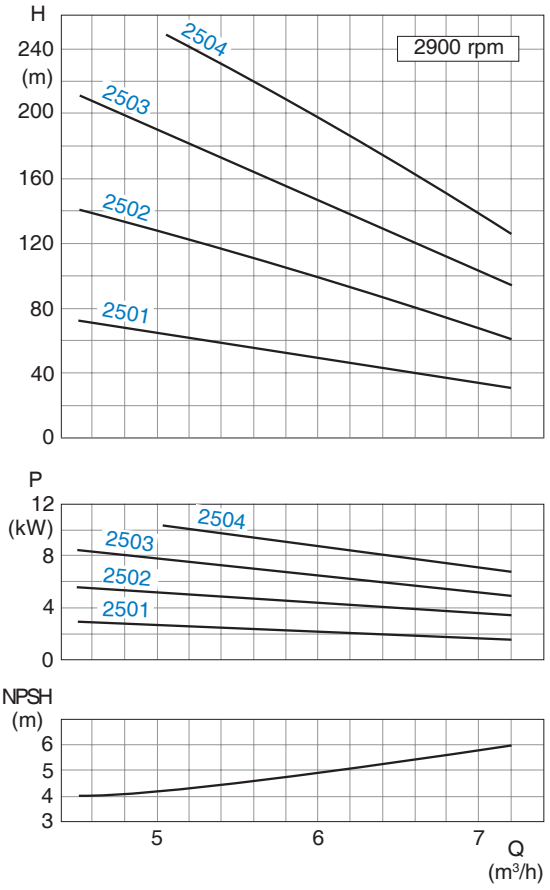
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

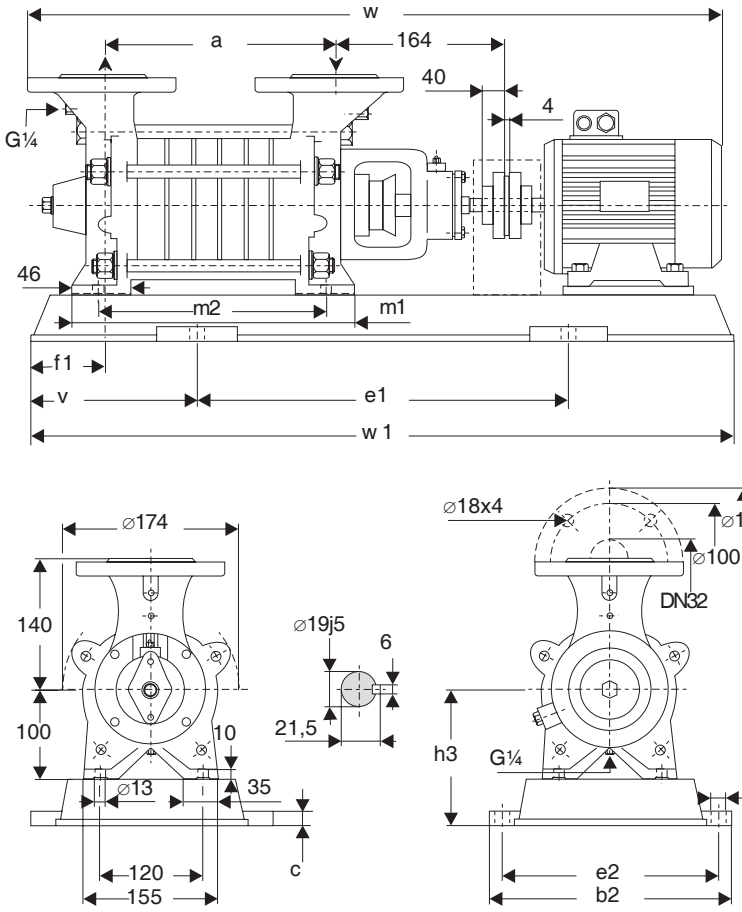
Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
2401	2.2	90L	P008	B68	18	52	150	297	20	15	400	265	120	32	140	178	134	719	640
	3	100L	P210	B80		59		300	25	19	420	260	115		165			760	650
2402	4	112M	P241	B80	21	82	190	330	25	19	480	290	125	32	177	218	174	821	730
	5.5	132S	P272	B95		101		360			540	320	140		197			897	820
2403	5.5	132S	P272	B95	23	104	230	360	25	19	540	320	140	32	197	258	214	937	820
	7.5	132S				107													
2404	7.5	132S	P015	B95	26	114	270	361	25	15	600	325	160	32	182	298	254	977	920
	11	160M	P344			157		450	30	24	660	400	180		240			1095	1020

* Dimensions depend upon the motor brand.

Dimension chart, Pump set drawing and Performance curves

ADHL 2500





General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

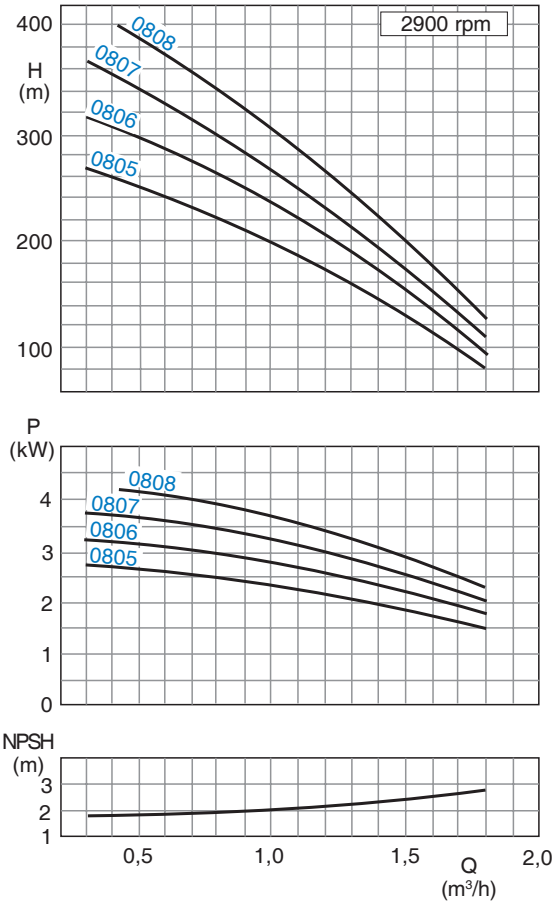
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

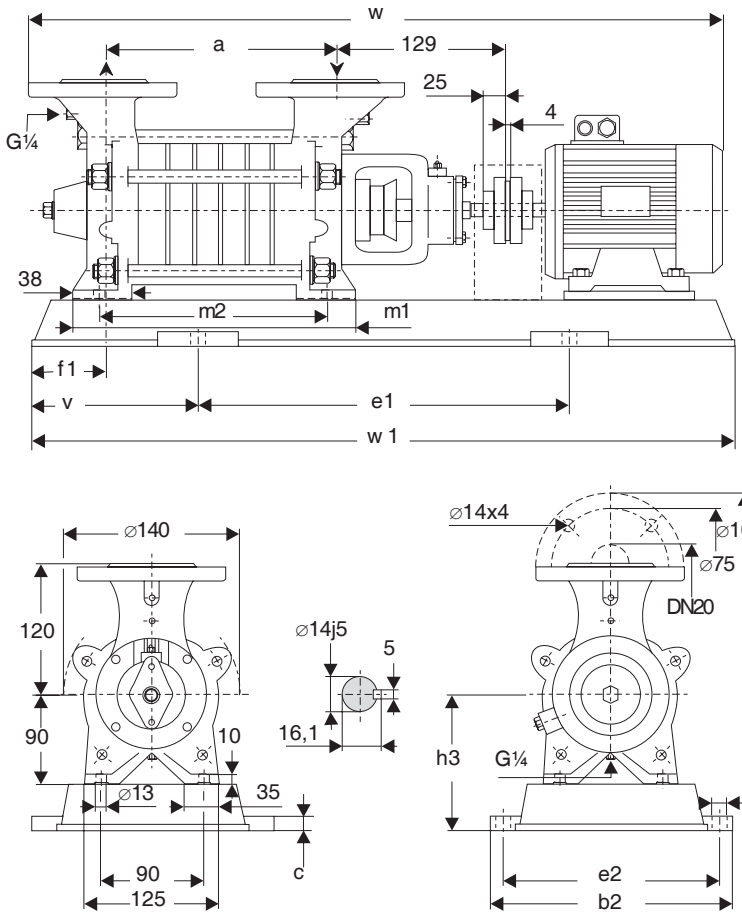
Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
2501	2.2	90L	P008	B68	18	52	150	297	20	15	400	265	120	32	140	178	134	719	640
	3	100L	P210	B80		61		300	25	19	420	260	115		165			760	650
2502	5.5	132S	P272	B95	21	101	190	360	25	19	540	320	140	32	197	218	174	897	820
	7.5	132S				105													
2503	7.5	132S	P272	B95	23	107	230	360	25	19	540	320	140	32	197	258	214	937	820
	11	160M	P303			169		390			600	350	160		225			1055	920
2504	7.5	132S	P015	B95	26	108	270	361	25	15	600	325	160	32	182	298	254	977	920
	11	160M	P344			157		450	30	24	660	400	180		240			1095	1020

* Dimensions depend upon the motor brand.

Dimension chart, Pump set drawing and Performance curves

AEHL 0800





General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

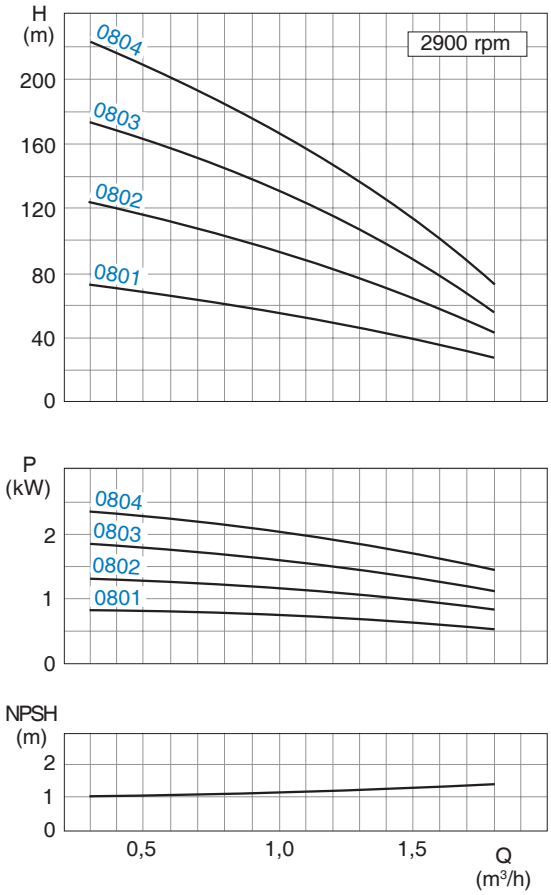
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.

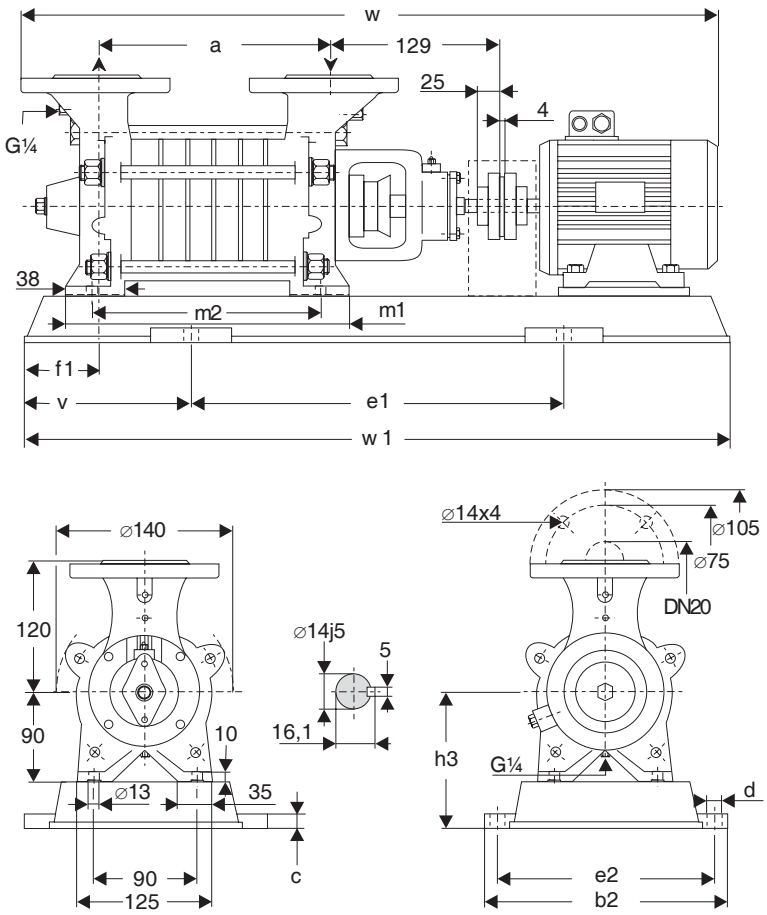
Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
0805	2.2	90L	P241	B68	16	54	245	330	25	19	480	290	125	37	155	278	248	719	730
	3	100L		B80		60									165			760	
0806	3	100L	P272	B80	18	66	279	360	25	19	540	320	140	37	165	312	282	794	820
	4	112M				84									177			815	
0807	3	100L	P272	B80	19	67	313	360	25	19	540	320	140	37	165	346	316	828	820
	4	112M				86									177			849	
0808	4	112M	P015	B80	21	89	347	361	25	15	600	325	160	37	162	380	350	883	920
	5.5	132S		B95		106									182			959	

* Dimensions depend upon the motor brand.

Dimension chart, Pump set drawing and Performance curves

CDHL 0800





General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

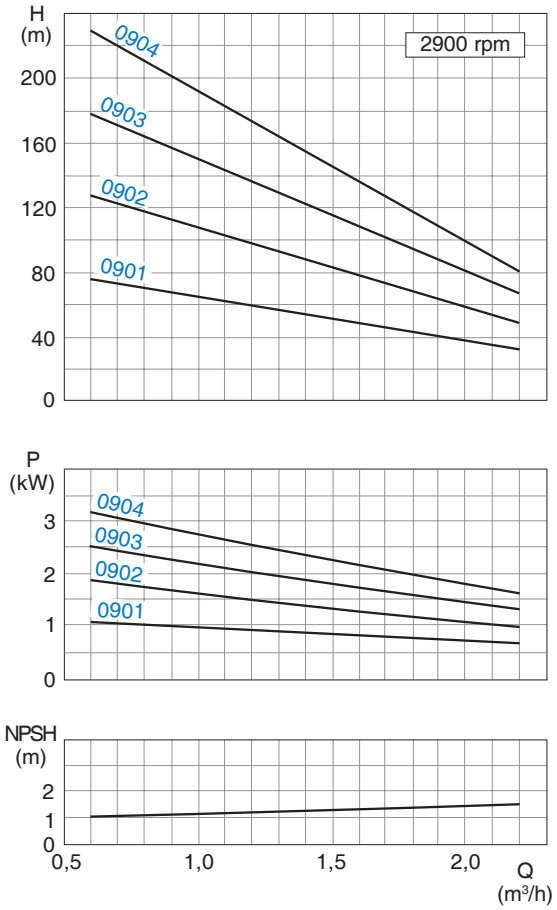
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

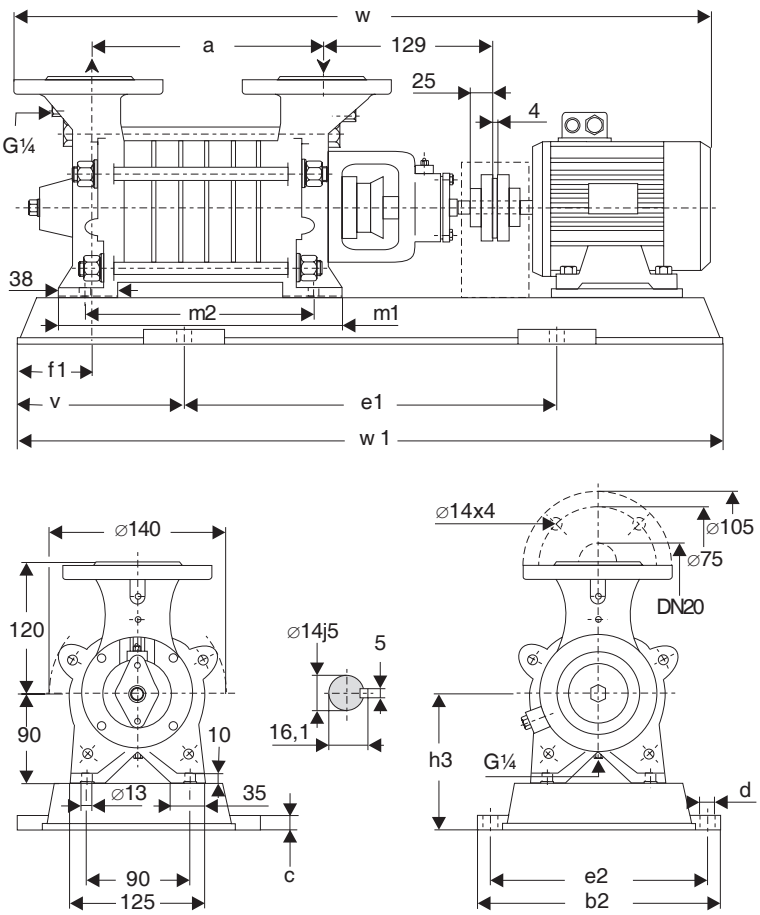
Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
0801	0.75	80	P007	B68	11	33	143	317	20	15	350	285	110	42	125	176	146	602	570
	1.1	80				34													
0802	1.1	80	P008	B68	13	40	177	297	20	15	400	265	120	42	130	210	180	636	640
	1.5	80				43												694	
0803	1.5	80	P210	B68	16	47	211	300	25	19	420	260	115	42	155	244	214	728	650
	2.2	90S	P241			54					480	290	125						730
0804	1.5	90S	P241	B68	18	49	245	330	25	19	480	290	125	42	155	278	248	762	730
	2.2	90L				56													
	3	100L		B80		62									165			769	

* Dimensions depend upon the motor brand.

Dimension chart, Pump set drawing and Performance curves

CDHL 0900





General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

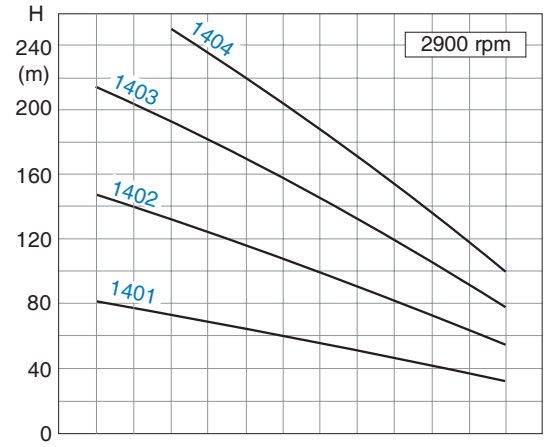
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

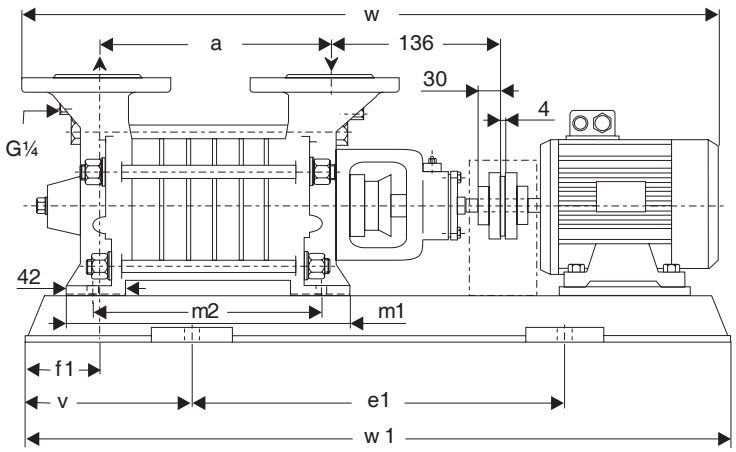
Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
0901	0.75	80	P007	B68	11	33	143	317	20	15	350	285	110	42	125	176	146	602	570
	1.1	80				34													
	1.5	90S	P008			42		297			400	265	120		130			660	640
0902	1.5	90S	P008	B68	13	43	177	297	20	15	400	265	120	42	130	210	180	694	640
	2.2	90L				47													
0903	2.2	90L	P241	B68	16	54	211	330	25	19	480	290	125	42	155	244	214	728	730
	3	100L		B80		60									165			769	
0904	2.2	90L	P241	B68	18	56	245	330	25	19	480	290	125	42	155	278	248	824	730
	3	100L		B80		62									165			803	
	4	112M				79									177			824	

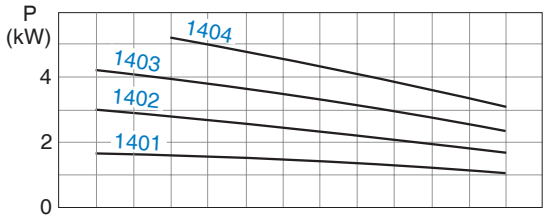
* Dimensions depend upon the motor brand.

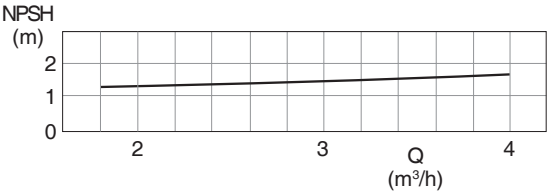
Dimension chart, Pump set drawing and Performance curves

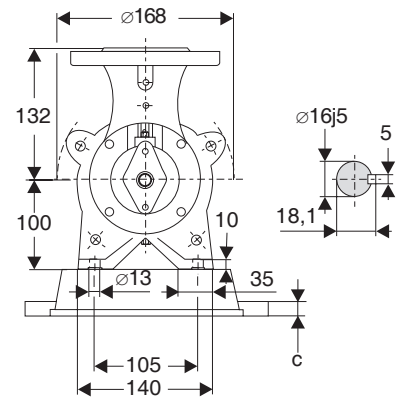
CDHL 1400

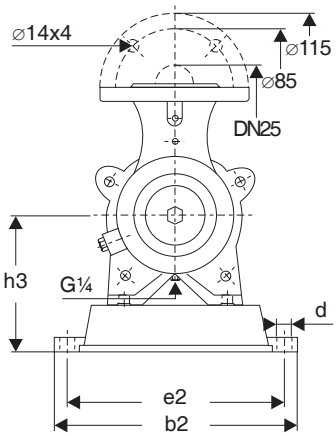












General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

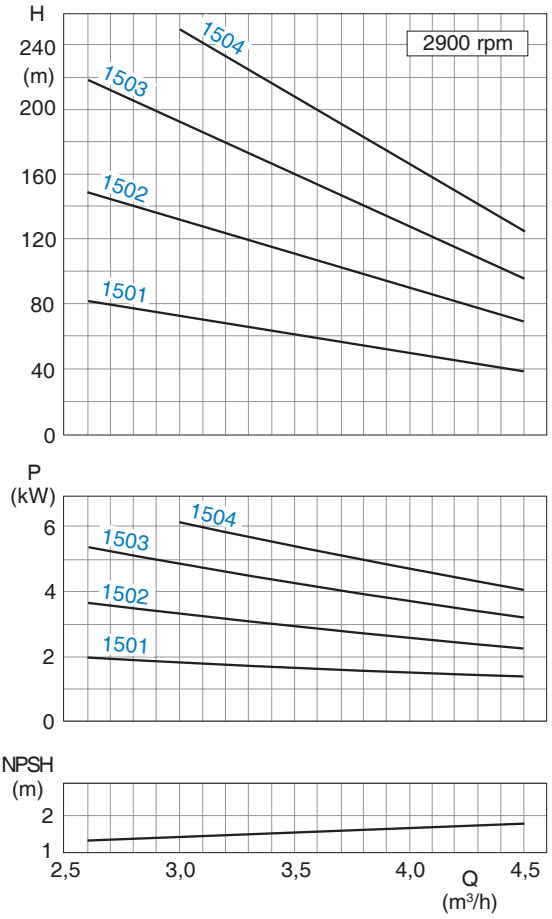
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

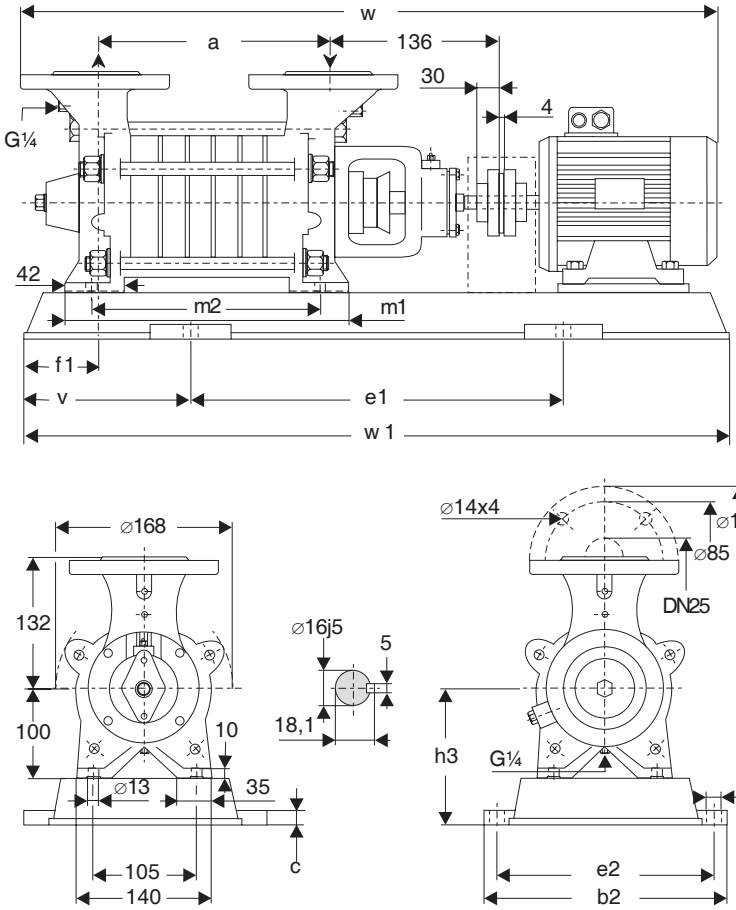
Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
1401	1.1	80	P007	B68	15	38	130	317	20	15	350	285	110	34	135	188	154	367	570
	1.5	90S	P008			46		297			400	265	120		140			695	640
	2.2	90L				49													
1402	2.2	90L	P210	B68	18	52	202	300	25	19	420	260	115	34	165	224	190	731	650
	3	100L	P241	B80		62		330			480	290	125					772	730
	4	112M				79									177			793	
1403	3	100L	P241	B80	20	64	238	330	25	19	480	290	125	34	165	260	226	808	730
	4	112M				81									177			829	
	5.5	132S	P272	B95		101		360			540	320	140		197			905	820
1404	4	112M	P272	B80	23	89	274	360	25	19	540	320	140	34	177	296	262	865	820
	5.5	132S	P015	B95		108		361		15	600	325	160		182			941	920

* Dimensions depend upon the motor brand.

Dimension chart, Pump set drawing and Performance curves

CDHL 1500





General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

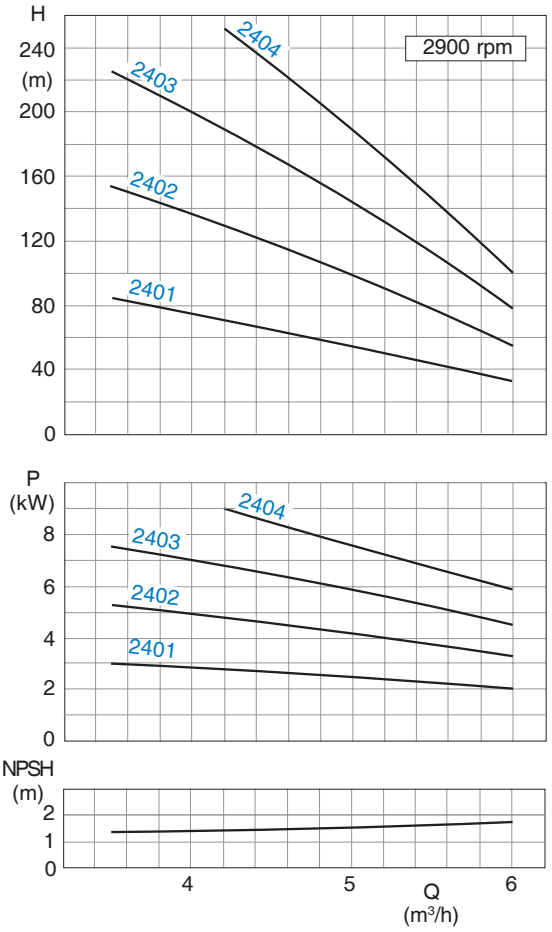
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

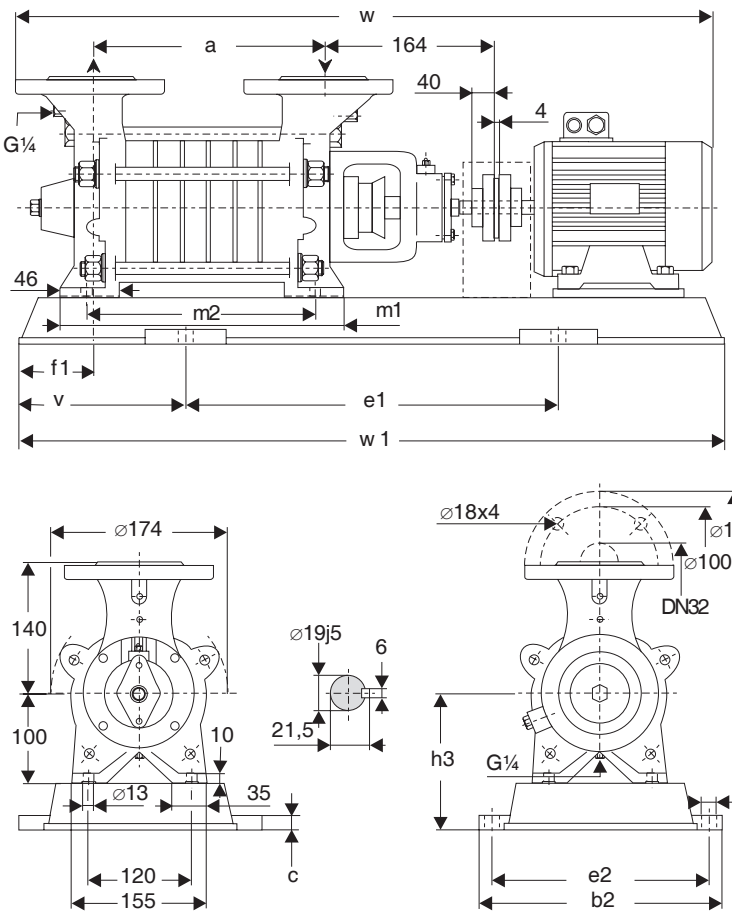
Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
1501	1.5	90S	P008	B68	15	46	166	297	20	15	400	265	120	34	140	188	154	695	640
	2.2	90L				49													
1502	3	100L	P241	B80	18	62	202	330	25	19	480	290	125	34	165	224	190	772	730
	4	112M				80									177			793	
1503	4	112M	P241	B80	20	81	238	330	25	19	480	290	125	34	177	260	226	829	730
	5.5	132S	P272	B95		101		360			540	320	140		197			905	820
1504	5.5	132S	P015	B95	23	109	274	361	25	15	600	325	160	34	182	296	262	941	920
	7.5	132S				111													

* Dimensions depend upon the motor brand.

Dimension chart, Pump set drawing and Performance curves

CDHL 2400





General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

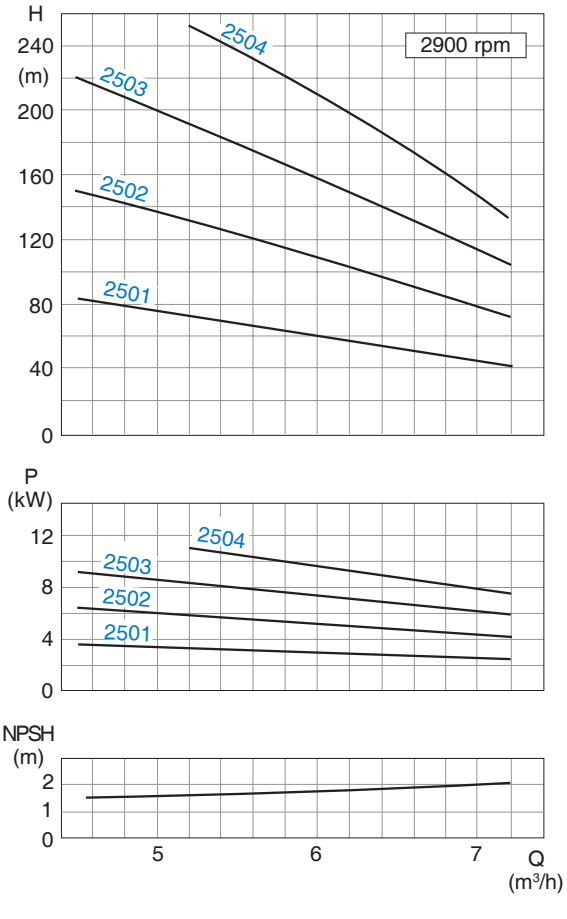
Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

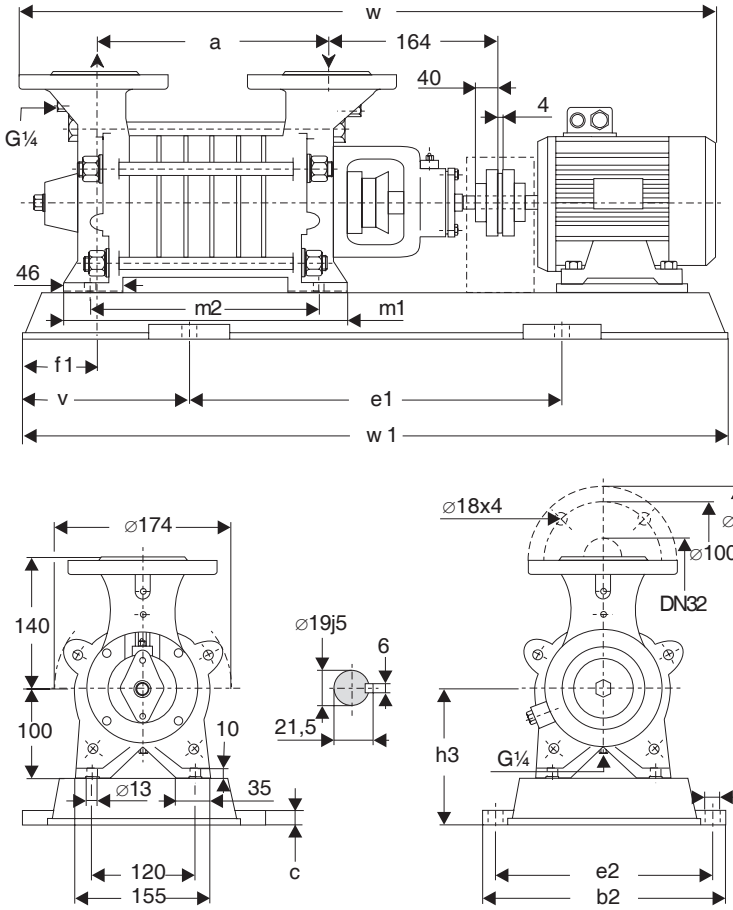
Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
2401	2.2	90L	P241	B68	23	61	190	330	25	19	480	290	125	32	165	218	174	759	730
	3	100L		B80		67												800	
	4	112M				85									177			821	
2402	4	112M	P272	B80	25	91	230	360	25	19	540	320	140	32	177	258	214	861	820
	5.5	132S		B95		106									197			937	
2403	5.5	132S	P015	B95	28	113	270	361	25	15	600	325	160	32	182	298	254	977	920
	7.5	132S				116													
	11	160M	P344			143		450	30	24	660	400	180		240			1095	1020
2404	7.5	132S	P015	B95	30	119	310	361	25	15	600	325	160	32	182	383	294	1017	920
	11	160M	P344			189		450	30	24	660	400	180		240			1095	1020

* Dimensions depend upon the motor brand.

Dimension chart, Pump set drawing and Performance curves

CDHL 2500





General: Values are valid for water ρ = 1 kg/dm³ and ν = 1 cSt.

Characteristic tolerances: Capacity ± 10% - Delivery head ± 10% - Power + 10%.
For designs with a mechanical seal the tolerance for the delivery head is extended by 2%.

Pump size	Motor kW	Motor size	Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
2501	3	100L	P241	B80	23	67	190	330	25	19	480	290	125	32	165	218	174	800	730
	4	112M				87									177			821	
2502	5.5	132S	P272	B95	25	106	230	360	25	19	540	320	140	32	197	258	214	937	820
	7.5	132S				109													
2503	7.5	132S	P015	B95	28	116	270	361	25	15	600	325	160	32	182	298	254	977	920
	11	160M	P344			143		450	30	24	660	400	180		240			1095	1020
2504	11	160M	P344	B95	30	189	310	450	30	24	660	400	180	32	240	338	294	1135	1020
	15	160L	P385	B110		212		490			740	440	200					1197	1140

* Dimensions depend upon the motor brand.

Notes

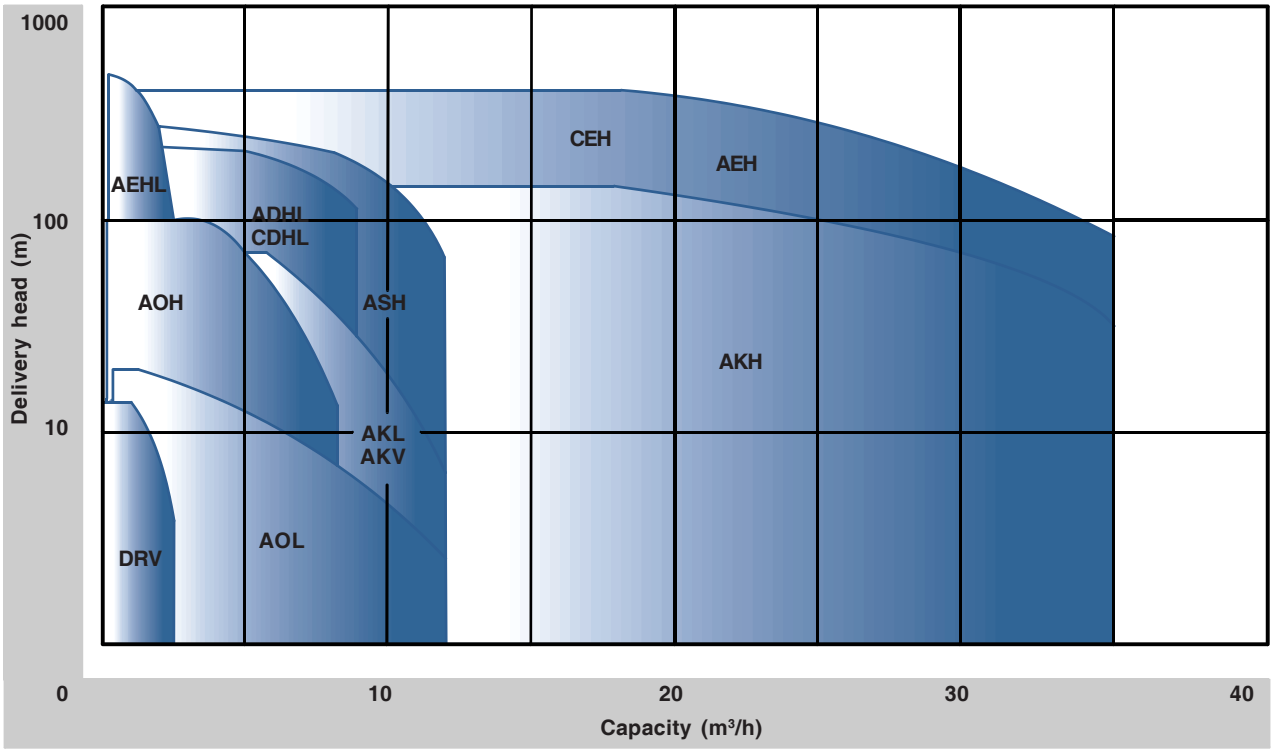
It is the policy of Sterling Fluid Systems to seek continually for ways to improve its products and the right is reserved to alter specifications at anytime without prior notice.

Sterling SIHI Side Channel pumps

Sterling Fluid Systems offers an extensive Side Channel pump range under its brand name Sterling SIHI. Sterling Fluid Systems has more than 80 years of experience in manufacturing, installation and support of Side Channel pumps. The Sterling SIHI Side Channel pumps can be found in a wide application range for the:

- Chemical market
- Pharmaceutical industry
- PetrOchemical industry
- Food industry
- Ship yards
- LPG industry
- and many more ...

The Sterling SIHI Side Channel pump range



The benefits of the Sterling SIHI Side Channel pumps

- Self priming
- Gas handling
- High-resistant materials
- Performance curve characteristics
- High efficiency
- Low $NPSH_R$ value
- Modular hydraulic system

The Sterling SIHI Side Channel pumps comply with the highest demands of our customers and are the best solution for the handling of liquids under critical physical conditions.

Sterling Fluid Systems (Europe)
www.sterlingfluidsystems.com/europe

Sterling Fluid Systems (Austria)
Wien
Telephone: +43 (0)1 680 050
Fax: +43 (0)1 680 0521
E-Mail: sales_austria@sterlingsihi.de

Sterling Fluid Systems (Belgium)
Groot-Bijgaarden
Telephone: +32 (0)2 481 7711
Fax: +32 (0)2 481 7737
E-Mail: sales@sterlingfluidsystems.be

Sterling Fluid Systems (Chech Republic)
Olomouc
Telephone: +420 (0)587 433 651
Fax: +420 (0)587 433 653
E-Mail: sterling@sterling.cz

Sterling Fluid Systems (France)
Trappes
Telephone: +33 (0)1 34 82 39 00
Fax: +33 (0)1 34 82 39 61
E-Mail: sterlingsihi@easynet.fr

Sterling SIHI (Germany)
Itzehoe
Telephone: 49 (0)4821 77101
Fax: 49 (0)4821 771274
E-Mail: sales@sterlingsihi.de

Sterling Fluid Systems (Italy)
Monza
Telephone: +39 (0)039 2824 1
Fax: +39 (0)039 2824 220
E-Mail: sterlingitaly@sidro.it

Sterling Fluid Systems (Greece)
Athens
Telephone: +302 (0)10 9570783
Fax: +0302 (0)10 9568121
E-Mail: sales_greece@sterlingsihi.de

Sterling Fluid Systems (Hungary)
Veszprém
Telephone: +36 (0)88 40 66 33
Fax: +36 (0)88 40 66 35
E-Mail: sales_hungary@sterlingsihi.de

Sterling Fluid Systems (Romania)
Bucuresti
Telephone: +40 (0)21 610 7188
Fax: +40 (0)21 210 8287
E-Mail: sales_romania@sterlingsihi.de

Sterling Fluid Systems (Netherlands)
Beverwijk
Telephone: +31 (0)251 263 232
Fax: +31 (0)251 226 309
E-Mail: info@sihi.nl

Sterling Fluid Systems (Polska)
Warszawa
Telephone: +48 (0)22 849 7097
Fax: +48 (0)22 849 6726
E-Mail: sterling@sterling.pl

Sterling SAT
Dägeling, Germany
Telephone: +49 (0)4821 9000-0
Fax: +49 (0)4821 9000-501
E-Mail: sat@sterlingsat.com

Sterling Fluid Systems (Schweiz)
Schaffhausen
Telephone: +41 (0)52 6440606
Fax: +41 (0)52 6440616
E-Mail: info@sterlingfluid.ch

Sterling Fluid Systems (Spain)
Madrid
Telephone: +34 (0)91 709 1310
Fax: +34 (0)91 715 9700
E-Mail: mibsa@stnet.es

Sterling Fluid Systems (UK)
Altrincham/Cheshire
Telephone: +44 (0)161 9286371
Fax: +44 (0)161 9252129
E-Mail: uksales@sterlingfluid.com

Sterling Fluid Systems (Americas)
www.sterlingfluidsystems.com/americas

Sterling Fluid Systems (USA)
Grand Island
Telephone: (1) 716 773 6450
Fax: (1) 716 773 2330
E-Mail: mail@sihi.com

Sterling Fluid Systems (Canada)
Guelph
Telephone: (1) 519 824 4600
Fax: (1) 519 824 7250
E-Mail: mail@sihi.com

Sterling Fluid Systems (Asia)
www.sterlingfluidsystems.com/asia

Sterling Fluid Systems (Asia)
Singapore
Telephone: (65) 68630 828
Fax: (65) 68630 868
E-Mail: asia.marketing@sterlingasia.com.sg

SIHI (Australia)
Bayswater
Telephone: (61) 3 9720 1500
Fax: (61) 3 9720 4076
E-Mail: sfsaus@ozemail.com.au

Sterling Fluid Systems (China)
Shanghai
Telephone: (8621) 6336 3488/6326 4171/6326 4062
Fax: (8621) 63268487
E-Mail: asia.marketing@sterlingasia.com.sg

Sterling Fluid Systems (Malaysia)
Selangor Darul Ehsan
Telephone: (60) 3 8070 0198/99
Fax: (60) 3 8070 0240
E-Mail: sfsmsia@tm.net.my

Sterling Fluid Systems (Philippines)
Muntinlupa City
Telephone: (63) 2 809 4908
Fax: (63) 2 807 2013
E-Mail: asia.marketing@sterlingasia.com.sg

Sterling Fluid Systems (Thailand)
Bangkok
Telephone: (66) 2 319 2567
Fax: (66) 2 319 25673/4
E-Mail: sfsthai@sterlingthai.co.th