

Side Channel pumps

Self-priming, segmental type



AEH 1201 ... 6108

Technical data

Capacity:	from 0,4 up to 35 m ³ /h
Delivery head:	from 6 up to 348 m
Speed:	1450 rpm (max. 1800 rpm)
Temperature:	max. 120 °C max. 180 °C for high temperature design (higher temperatures upon request)
Casing pressure:	PN 40
Shaft sealing:	stuffing box or mechanical seal
Flange connections:	DIN 2501 / PN 40
Direction of rotation:	clockwise (when seen from the drive end)



Application

The Sterling SIHI AEH pump is a self-priming side channel pump capable of handling gas along with the medium. The AEH is a Side Channel pump as per **DIN EN 734** and operates at a low noise level.

The AEH pumps were especially developed for difficult applications in all industry sectors and are thus applied when pure, turbid or aggressive media have to be pumped under difficult conditions without any problems.

The different material possibilities with uniform dimensions and performance characteristics as well as the standard exchangeable components, make the AEH particularly recommendable as universal pump for all possible pumping problems. This results in a wide application range in many sectors such as;

- Chemical industry,
- Petro-Chemical industry,
- Pharmaceutical industry,
- OEM,
- Oil industry,
- Food industry.

Design

Pumps of the series AEH have a segmental type construction with open vane wheel impellers. The pumps is available in a normal industrial design with one liquid surrounded slide bearing and one ball bearing or in a heavy-duty construction with a double ball bearing design.

The program comprises 6 sizes each with 1-8 stages. The existing material design allows an optimum rating for the respectively desired performance range and the pumping medium.

The applied hydraulic components are from our Modular Side Channel system (interchangeability of parts).

Construction

Casing pressure

Maximum 40 bar from -40 °C up to +120 °C.
Maximum 32 bar from +120 °C up to +180 °C.
Pressure stages for temperature as per DIN EN 1333.

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 40.
Flange design as per DIN 2512 with groove or drilled according to ANSI 150 or 300 lbs is basically possible.

Bearing

Either by a ball bearing and a liquid surrounded sleeve bearing (design A) or by two ball bearings (design B). The ball bearings are according to DIN 625 and greased for life.

Direction of rotation

Clockwise, when looking at the pump from the drive end.
Anti-clockwise is possible.

Shaft sealing

The shaft can be sealed by a stuffing box or a mechanical seal conform DIN EN 12756.
The shaft sealing is also available in a design suitable for heating or cooling of the stuffing box or the mechanical seal.

Double mechanical seal (back-to-back as well as tandem) or a quench design with throttle bush are available upon request.
The AEH can also be supplied with a magnetic coupling (for information see the separate catalogue).

Material design AEH

Cast iron and Ductile iron

Pos	Components	Material design					
		0A	0B	0F	1A	1B	1F
1060	Suction casing	EN-GJL-250			EN-GJS-400-18-LT		
1070	Discharge casing						
1090	Intermediate piece						
1140 1141							
2100	Shaft	X 20 Cr 13					
2350	Vane wheel impeller	CuZn40Al2	G-X 3 CrNiMoCuN 26 6 3 3	PAEK	CuZn40Al2	G-X 3 CrNiMoCuN 26 6 3 3	PAEK
3500	Bearing housing	EN-GJL-250			EN-GJL-250		
3550	Bearing bracket *				EN-GJS-400-18-LT		
4410	Mechanical seal casing				EN-GJS-400-18-LT		
4510	Stuffing box casing	EN-GJL-250			EN-GJS-400-18-LT		
5451	Bearing bush	EK 2203					

* Only for Design A

Stainless steel

Pos	Components	Material design	
		4B	4F
1060	Suction casing	G-X 6 CrNiMo 18 10	
1070	Discharge casing		
1090	Intermediate piece		
1140 1141			
2100	Shaft	X 5 CrNiMo 17 12 2	
2350	Vane wheel impeller	G-X 3 CrNiMoCuN 26 6 3 3	PAEK
3500	Bearing housing	EN-GJL-250 coated	
4410	Mechanical seal casing	G-X 6 CrNiMo 18 10	

Casing seal

The casing can be sealed with a liquid sealing compound or soft Teflon.

Drive

By electric motor, type of construction IM B3.

General comments

Side Channel pumps with the same hydraulic construction are manufactured in series as:

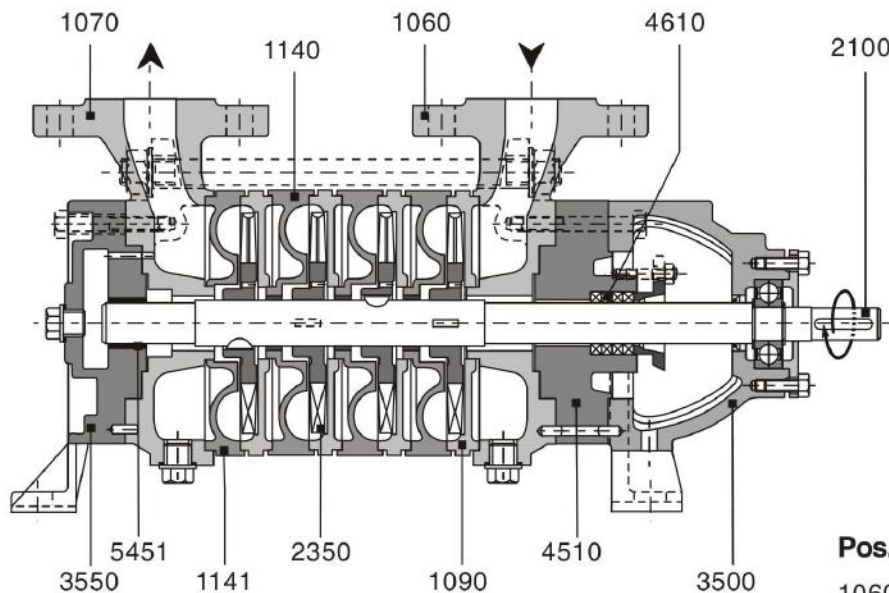
- AEH** With magnetic coupling, PN 40
- CEH** High duty pump, PN 40
Also available with magnetic coupling
- CEB** Vertical tank mounted pump, PN 25 with magnetic coupling
- CEV** Vertical tank mounted pump, PN 25 with mechanical seal (replacement for CVGP)
- AKH** Medium duty pump, PN 16
- AOH** Low duty pump with oval flanges, PN 10

Technical documents about these pump series will be readily supplied on request.

Sectional drawing and parts list AEH (typical)

AEH in design A

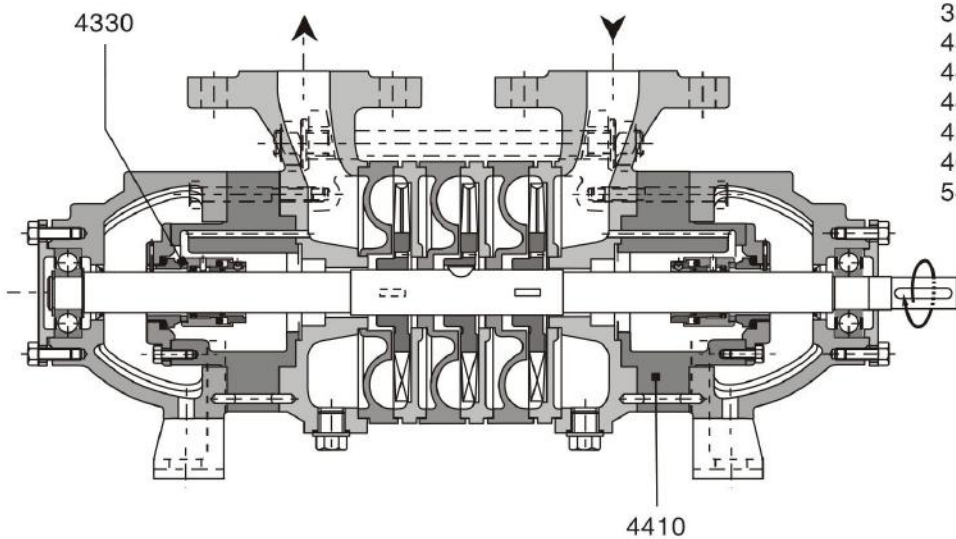
Stuffing box as well as (un)balanced mechanical seals are available



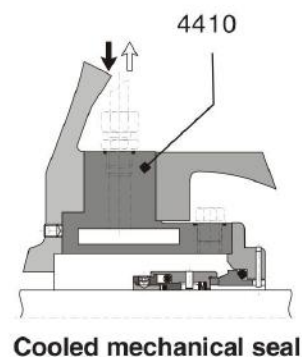
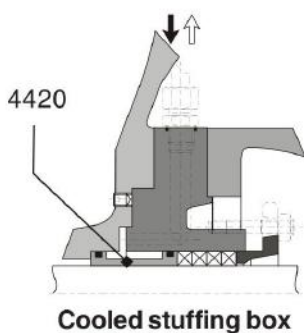
Pos.	Components
1060	Suction casing
1070	Discharge casing
1090	Suction intermediate piece
1140	Discharge intermediate piece
1141	Discharge intermediate piece
2100	Shaft
2350	Vane wheel impeller
3500	Bearing housing
3550	Bearing bracket
4330	Mechanical seal
4410	Mechanical seal casing
4420	Cooling insert
4510	Stuffing box casing
4610	Stuffing box
5451	Bearing bush

AEH in design B

Stuffing box as well as (un)balanced mechanical seals are available



Cooled shaft sealing possibilities



All possible design combinations can be found in the delivery program

Performance range AEH

General conditions

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

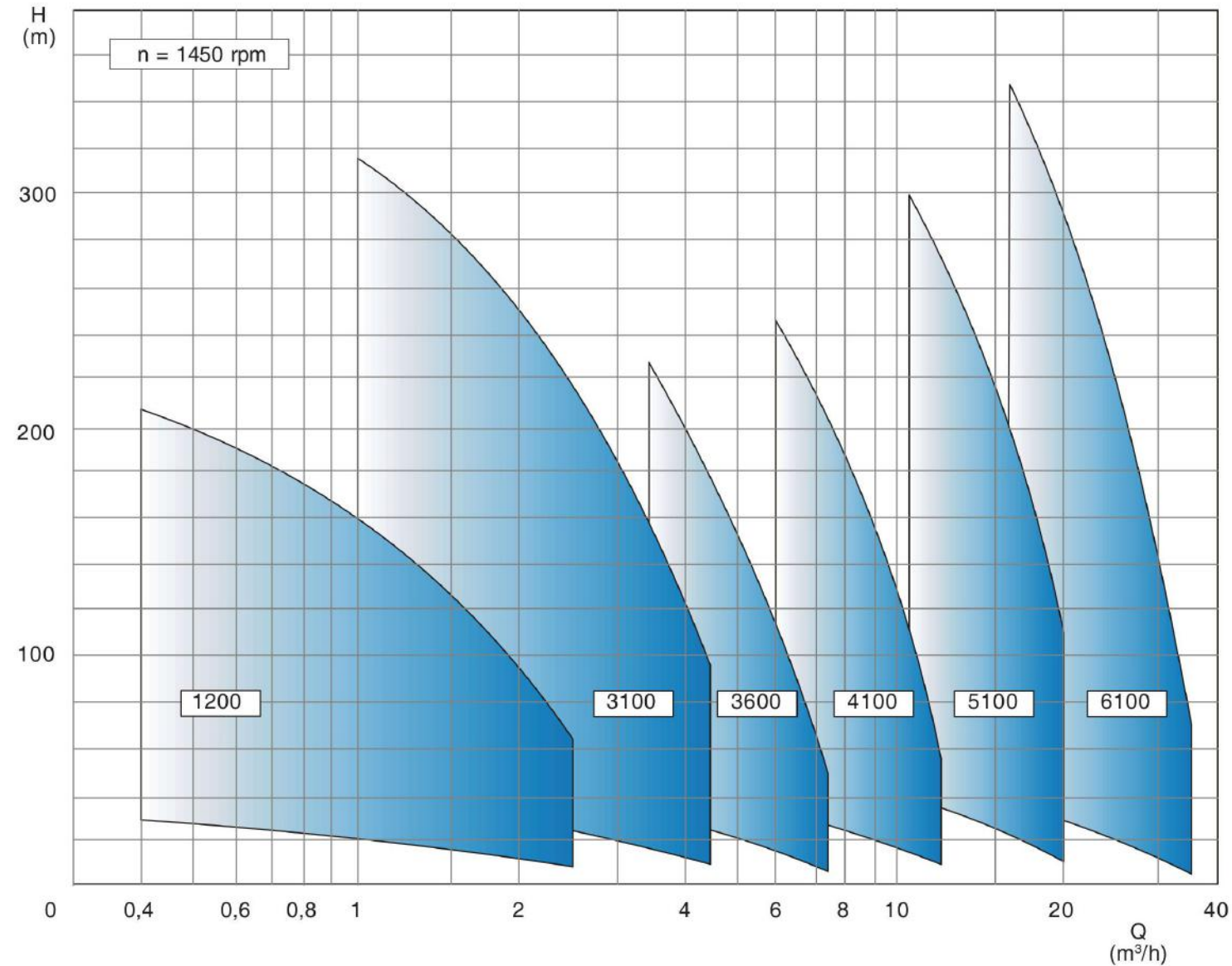
Characteristic tolerances

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.

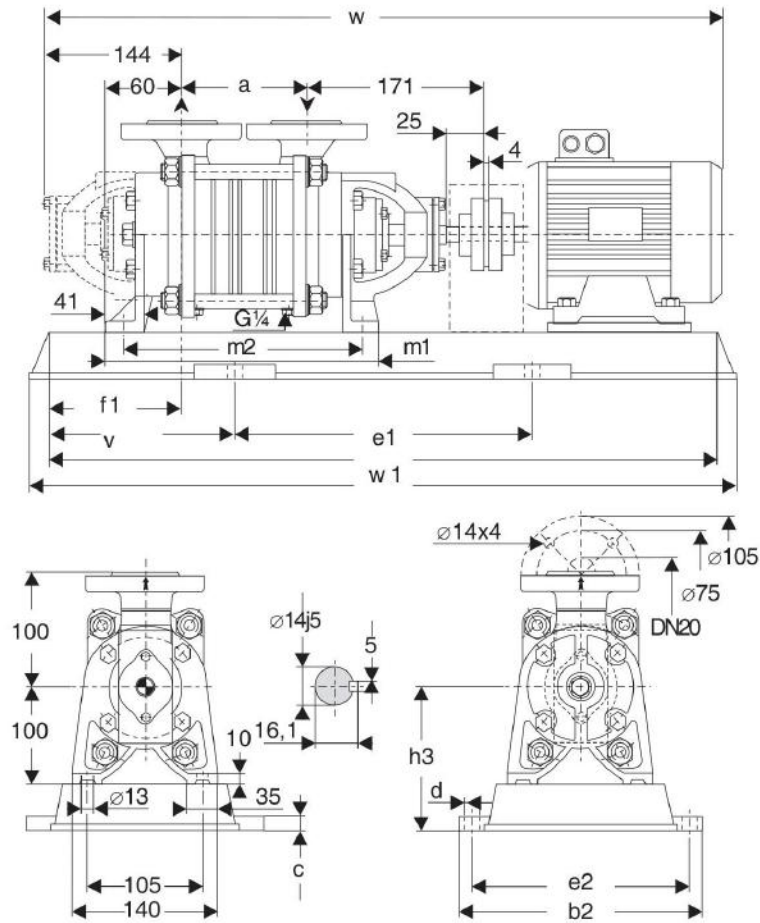
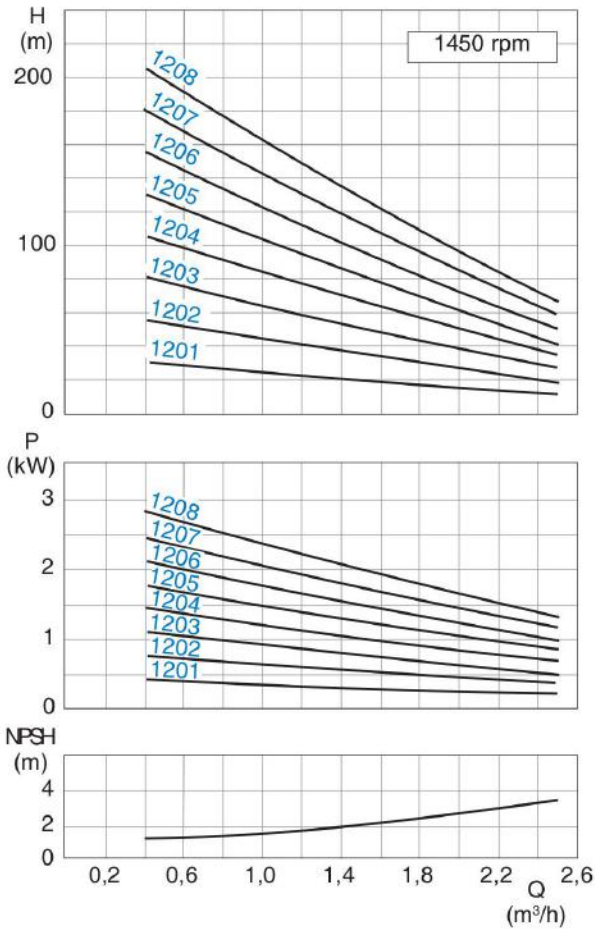
Measuring standard

According to ISO 5198



Dimension chart, Pump set drawing and Performance curves

AEH 1200



General:

Values are valid for water $\rho = 1 \text{ kg/dm}^3$ and $\nu = 1 \text{ cSt}$.

Characteristic tolerances:

Capacity $\pm 5\%$ - Delivery head $\pm 5\%$ - Power $+ 10\%$.

For designs with a mechanical seal or casing seal of soft Teflon, the tolerance for the delivery head is extended by 2% each.

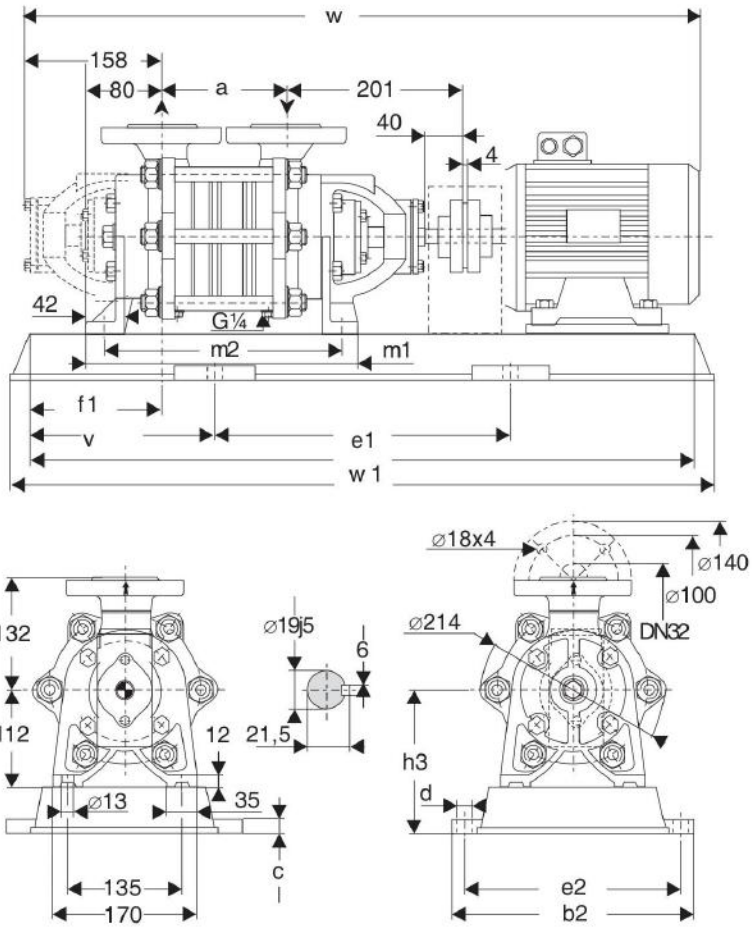
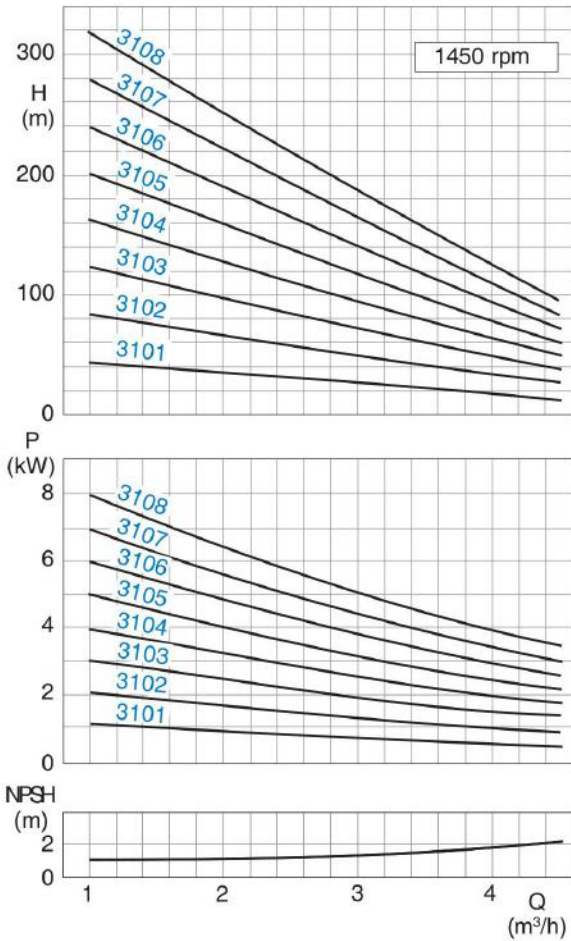
Pump size	Motor size		Base plate	Coupling	Weight pump	Weight set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
	kW	size																	
1201	0.37	71	P008	B68	19	44	120	297	20	15	400	265	120	98	140	270	236	677	640
	0.55	80																711	
1202	0.55	80	P008	B68	20	48	120	297	20	15	400	265	120	98	140	270	236	711	640
	0.75	80	P241															769	
	1.1	90S	P241															730	
1203	0.75	80	P210	B68	21	52	154	300	25	19	420	260	115	98	165	304	270	745	650
	1.1	90S	P241															803	
	1.5	90L	P241															730	
1204	1.1	90S	P241	B68	23	61	188	330	25	19	480	290	125	98	165	338	304	837	730
	1.5	90L		B80														76	
	2.2	100L	P272	B80														76	
1205	1.1	90S	P272	B68	25	66	222	360	25	19	540	320	140	98	165	372	338	871	820
	1.5	90L		B80														70	
	2.2	100L		B80														77	
1206	1.5	90L	P272	B68	27	72	256	360	25	15	540	320	140	98	165	406	372	905	820
	2.2	100L	P015	B80														84	
	3	100L	P015	B80														85	
1207	1.5	90L	P015	B68	29	79	290	361	25	15	600	325	160	98	150	440	406	939	920
	2.2	100L		B80														86	
	3	100L		B80														87	
1208	2.2	100L	P015	B80	31	89	324	361	25	15	600	325	160	98	150	474	440	1014	920
	3	100L																B80	

* Design B - dimensions depend on motor brand.

The weight of the pump in design A will be approximately 1 kg less.

The weight will be approximately 6% higher when using Stainless steel.

AEH 3100



General:

Values are valid for water $\rho = 1 \text{ kg/dm}^3$ and $\nu = 1 \text{ cSt}$.

Characteristic tolerances:

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

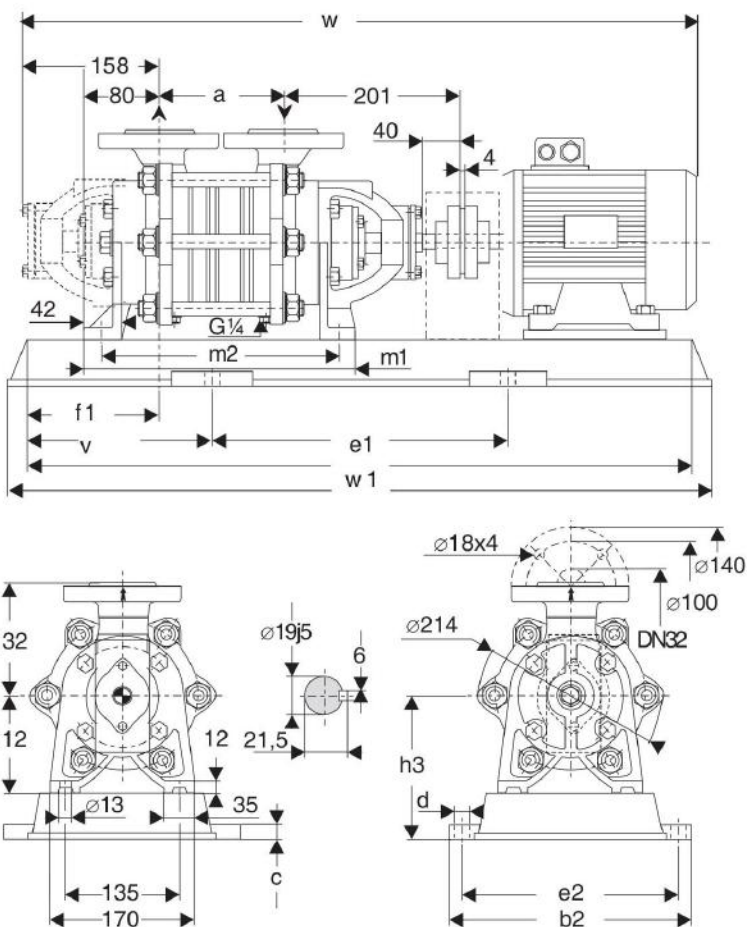
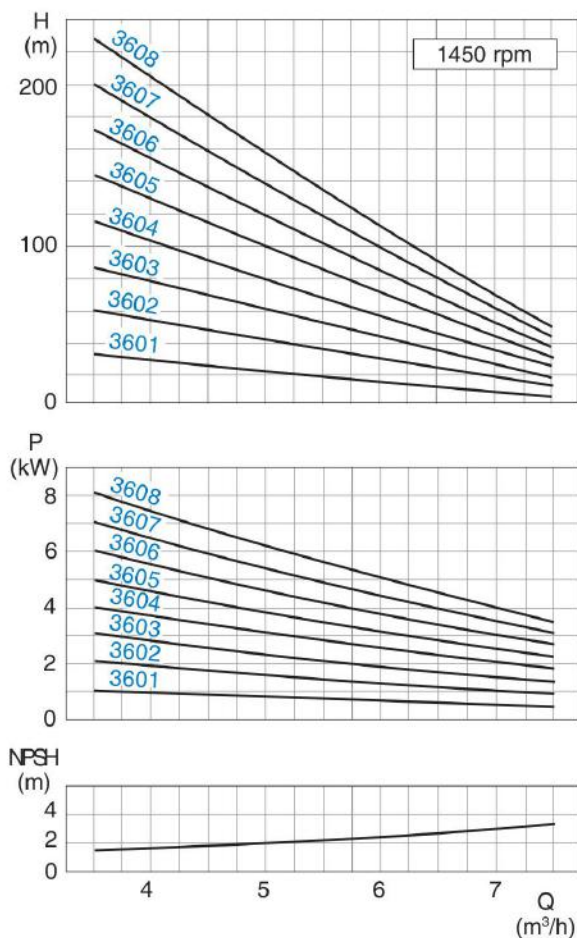
Pump size	Motor		Base plate	Coupling	Weight		a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1	
	kW	size			pump	set														
3101	0.75	80	P241	B68	33	64	146	330	25	19	480	290	125	107	177	314	280	781	730	
	1.1	90S																68		839
3102	1.1	90S	P241	B68	35	70	146	330	25	19	480	290	125	107	177	314	280	839	730	
	1.5	90L																72		880
	2.2	100L	P272	B80	85	360	540	320	140	820										
3103	2.2	100L	P272	B80	37	89	186	360	25	19	540	320	140	107	177	354	320	920	820	
	3	100L																90		
3104	2.2	100L	P015	B80	40	97	226	361	25	15	600	325	160	107	162	394	360	960	920	
	3	100L																116		981
	4	112M																102		1000
3105	3	100L	P015	B80	44	120	266	361	25	15	600	325	160	107	162	434	400	1021	920	
	4	112M																137		1097
	5.5	132S	P017	B80	139	306	700	325	200	107	172	474	440	1100						
3106	4	112M	P017	B95	49	161	306	361	25	15	700	325	200	107	192	474	440	1137	1100	
	5.5	132S																171		1163
	7.5	132M																144		1101
3107	4	112M	P017	B80	53	165	346	361	25	15	700	325	200	107	172	514	480	1177	1100	
	5.5	132S																205		1203
	7.5	132M	P017	B95	199	386	840	490	215	107	192	554	520	1217						
3108	5.5	132S	P017	B95	57	209	386	361	25	15	700	325	200	107	192	554	520	1243	1100	
	7.5	132M																255		1335
	11	160M																P436		B95

* Design B - dimensions depend on motor brand.
 The weight of the pump in design A will be approximately 2,5 kg less.
 The weight will be approximately 6% higher when using Stainless steel.

Dimension chart, Pump set drawing and Performance curves

www.energy.ir

AEH 3600



General:

Values are valid for water $\rho = 1 \text{ kg/dm}^3$ and $\nu = 1 \text{ cSt}$.

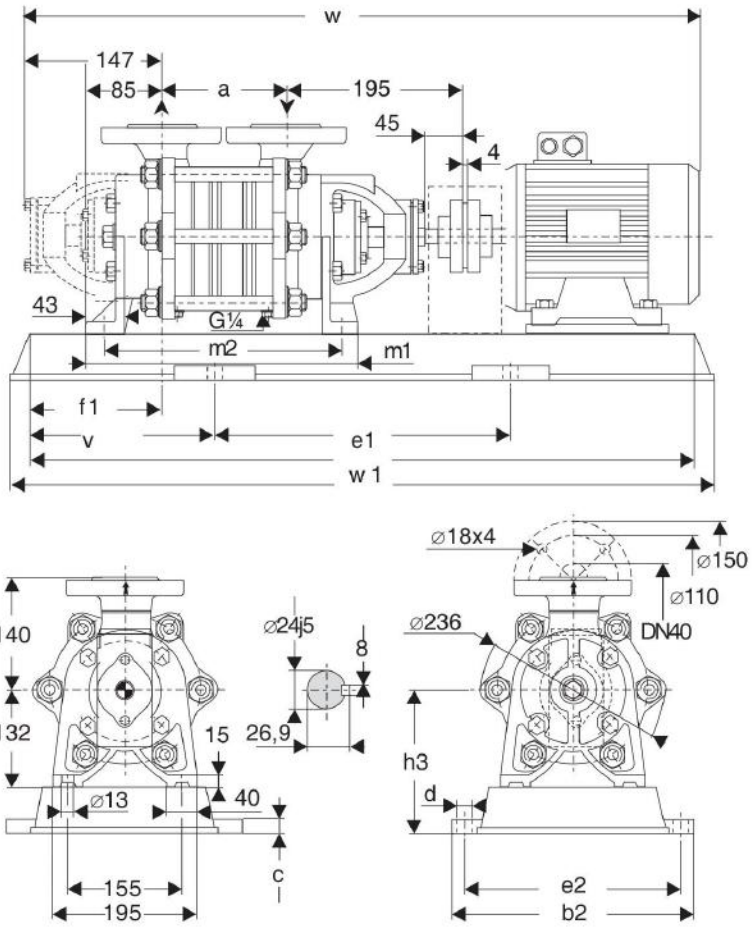
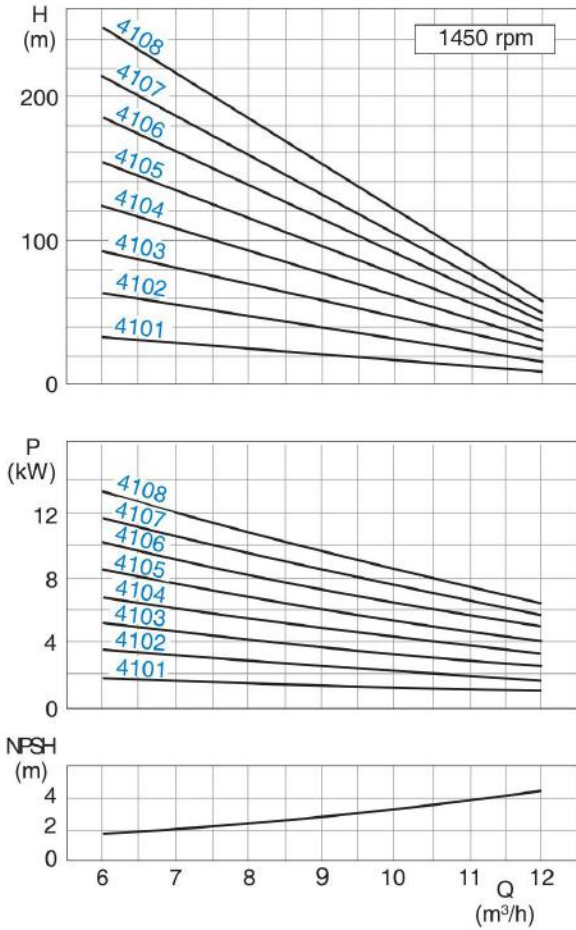
Characteristic tolerances:

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

Pump size	Motor size		Base plate	Coupling	Weight		a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
	kW	size			pump	set													
3601	0.75	80	P241	B68	30	64	146	330	25	19	480	290	125	107	177	314	280	781	730
	1.1	90S				68												839	
3602	1.5	90L	P241	B68	34	74	146	330	25	19	480	290	125	107	177	314	280	839	730
	2.2	100L	P272	B80		85												360	
3603	2.2	100L	P272	B80	39	89	186	360	25	19	540	320	140	107	177	354	320	920	820
	4	112M				109												941	
3604	3	100L	P015	B80	43	98	226	361	25	15	600	325	160	107	162	394	360	960	920
	4	112M				116												981	
3605	5.5	132S	P017	B95	46	154	266	361	25	15	600	325	160	107	162	434	400	1057	1100
	3	100L	P015	B80		102												700	
3606	4	112M	P017	B80	49	120	306	361	25	15	700	325	200	107	162	474	440	1021	920
	5.5	132S				B95												157	
3607	4	112M	P017	B80	53	139	346	361	25	15	700	325	200	107	172	514	480	1061	1100
	5.5	132S				B95												161	
3608	7.5	132M	P017	B95	57	171	386	361	25	15	700	325	200	107	192	554	520	1163	1100
	5.5	132S				209												700	
3608	7.5	132M	P017	B95	57	219	386	361	25	15	700	325	200	107	192	554	520	1243	1100
	11	160M				P436												255	

* Design B - dimensions depend on motor brand.
The weight of the pump in design A will be approximately 2,5 kg less.
The weight will be approximately 6% higher when using Stainless steel.

AEH 4100



General:

Values are valid for water $\rho = 1 \text{ kg/dm}^3$ and $\nu = 1 \text{ cSt}$.

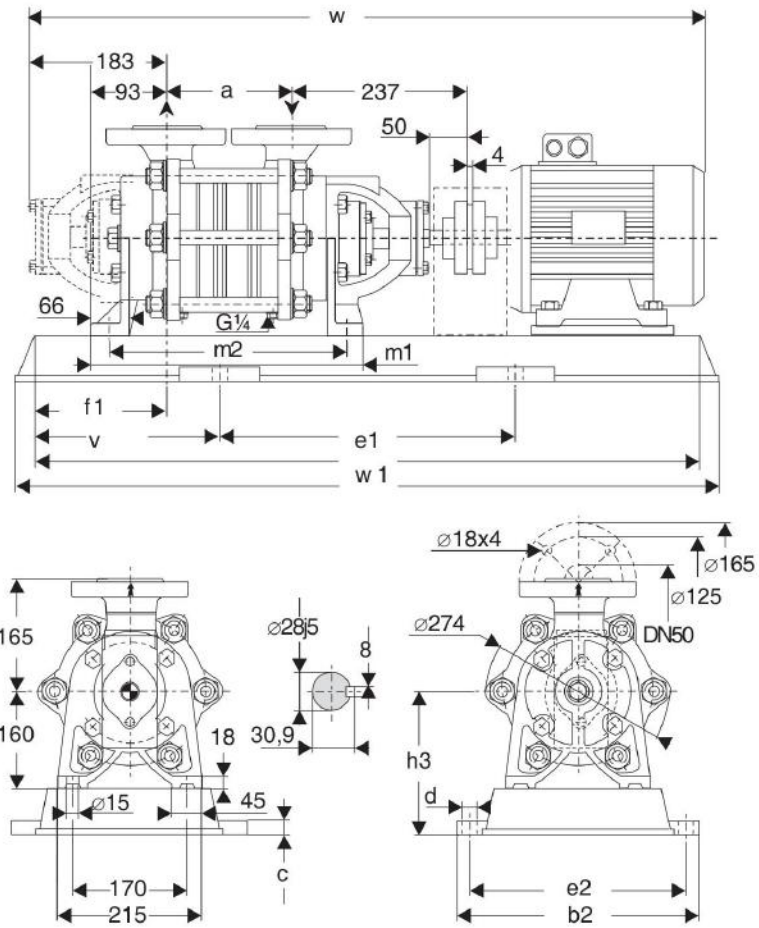
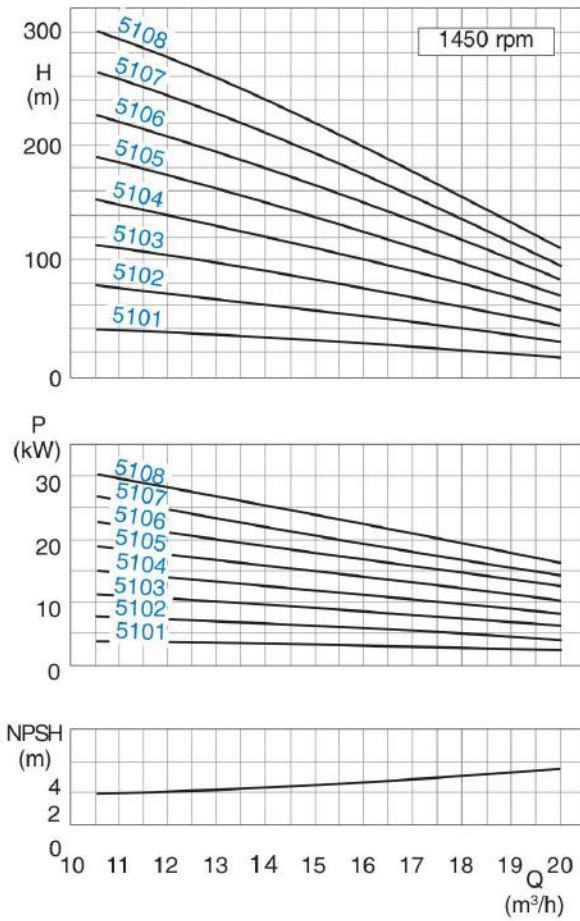
Characteristic tolerances:

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

Pump size	Motor size		Base plate	Coupling	Weight		a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*		w1
	kW	size			pump	set												ø36	ø36	
4101	1.5	90L	P241	B68	40	84	160	330	25	19	480	290	125	94	197	303	269	836	730	730
	2.2	100L	P272	B80		95		360			320	140	877					820		
4102	2.2	100L	P272	B80	47	101	215	360	25	19	540	320	140	94	197	358	324	932	820	820
	3	100L				102														
4103	4	112M	P015	B80	52	132	270	361	25	15	600	325	160	94	182	413	379	1008	920	920
	5.5	132S	P017	B95		172					700	200	192		1084			1100		
4104	5.5	132S	P017	B95	61	175	325	361	25	15	700	325	200	94	192	468	434	1139	1100	1100
	7.5	132M				185												1165		
4105	5.5	132S	P017	B95	67	181	380	361	25	15	700	325	200	94	192	523	489	1194	1100	1100
	7.5	132M				221												490		
	11	160M	P385	275	490	30	24	740	440	240	1312	1140								
4106	7.5	132M	P385	B95	73	237	435	490	30	24	740	440	200	94	212	578	544	1275	1140	1140
	11	160M	P436			272					540	30	24		840			490		
4107	7.5	132M	P436	B95	79	234	490	540	30	24	840	490	215	94	212	633	599	1330	1270	1270
	11	160M				278									610			35		
	15	160L	P487	B110	314	610	35	28	940	550	240	260	1484	1420						
4108	11	160M	P487	B95	85	298	545	610	35	28	940	550	240	94	260	688	654	1477	1420	1420
	15	160L		B110		319												1539		

* Design B - dimensions depend on motor brand.
The weight of the pump in design A will be approximately 2.5 kg less.
The weight will be approximately 6% higher when using Stainless steel.

AEH 5100



General:

Values are valid for water $\rho = 1 \text{ kg/dm}^3$ and $\nu = 1 \text{ cSt}$.

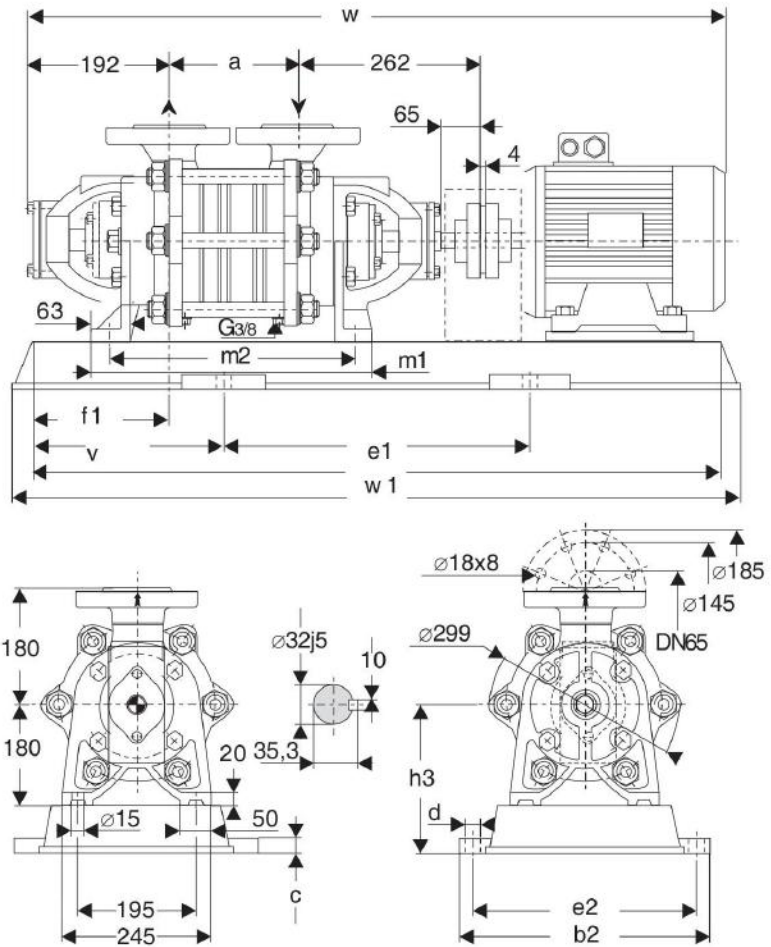
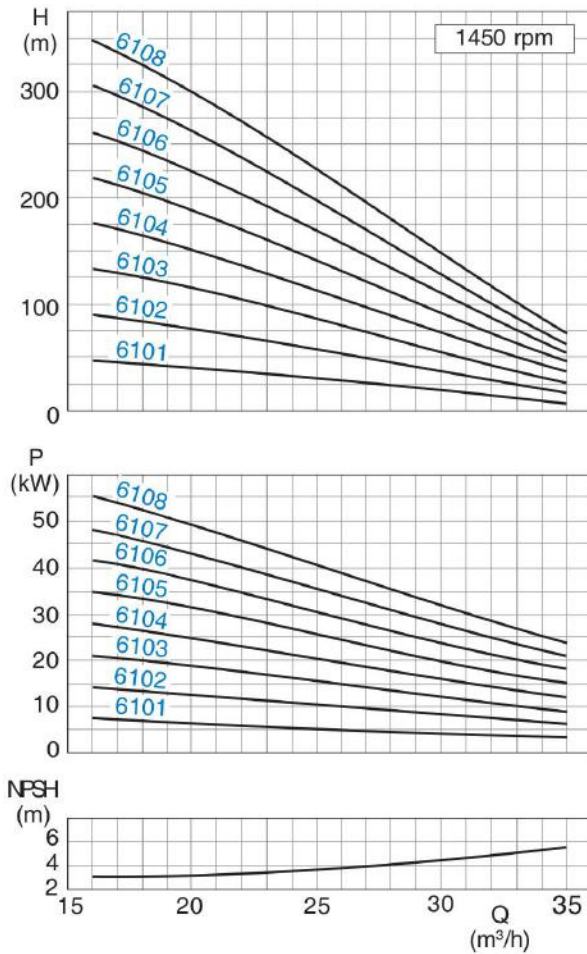
Characteristic tolerances:

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

Pump size	Motor		Base plate	Coupling	Weight		a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*		w1
	kW	size			pump	set												w*	w1	
5101	3	100L	P015	B80	65	118	175	361	25	15	600	325	160	118	210	369	331	970	920	
	4	112M																991		
5102	5.5	132S	P017	B95	73	184	250	361	25	15	700	325	200	118	220	444	406	1142	1100	
	7.5	132M																1168		
	11	160M	P385	278	490	30	24	740	440	240	1260	1140								
5103	7.5	132M	P017	B95	85	235	325	361	25	15	700	325	200	118	220	519	481	1243	1100	
	11	160M																1335		
	15	160L	P436	298	540	30	24	840	490	215	1335	1270								
5104	11	160M	P436	B95	92	290	400	540	30	24	840	490	215	118	240	594	556	1410	1270	
	15	160L	P487	B110														325		610
5105	15	160L	P487	B110	103	336	475	610	35	28	940	550	240	118	260	669	631	1547	1420	
	18.5	180M																357		280
	22	180L													377	280	1609			
5106	15	160L	P538	B110	115	387	550	660	35	28	1060	600	280	118	260	744	706	1622	1620	
	18.5	180M																408		280
	22	180L		428											300	1742				
	30	200L		509											300	1742				
5107	18.5	180M	P538	B110	130	419	625	660	35	28	1060	600	280	118	280	819	781	1759	1620	
	22	180L		B125														439		300
	30	200L		B125											520	300	1817			
5108	22	180L	P538	B125	141	480	700	660	35	28	1060	600	280	118	280	894	856	1834	1620	
	30	200L	S389															533		540

* Design B - dimensions depend on motor brand.
The weight of the pump in designA will be approximately 5 kg less.
The weight will be approximately 6% higher when using Stainless steel.

AEH 6100



General:

Values are valid for water $\rho = 1 \text{ kg/dm}^3$ and $\nu = 1 \text{ cSt}$.

Characteristic tolerances:

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

Pump size	Motor		Base plate	Coupling	Weight		a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1										
	kW	size			pump	set																							
6101	5.5	132S	P017	B95	74	198	195	361	25	15	700	325	200	129	240	412	374	1121	1100										
	7.5	132M		B95		218												1147											
6102	11	160M	P385	B95	87	305	285	490	30	24	740	440	200	129	260	502	464	1329	1140										
	15	160L	P436	B110		317					840	490						215		1391	1270								
6103	18.5	180M	P487	B110	99	363	375	610	35	28	940	550	240	129	280	592	554	1543	1420										
	22	180L		B125		383														660	35	28	1060	600	280	129	280	682	644
6104	22	180L	P487	B125	112	396	465	610	35	28	940	550	240	129	280	682	644	1633	1420										
	30	200L	P538			517									660			35		28	1060	600	280	129	300	772	734	1691	1620
6105	30	200L	P538	B125	124	529	555	660	35	28	1060	600	280	129	300	772	734	1781	1620										
	37	225S		B140		598									325			300		1846									
6106	30	200L	S389	B125	137	544	645	540	40	28	1200	490	300	129	300	862	824	1871	1800										
	37	225S	14206	B140		542						640			40			28		1200	690	300	129	343	862	824	1936		
	45	225M				602																						730	1200
6107	30	200L	S609	B125	149	556	735	740	40	28	1200	670	310	129	300	952	914	1961	1820										
	37	225S	14208	B140		545									740			40		28	1300	690	325	129	343	952	914	2026	
	45	225M				612																							1950
	55	250M				14209																							B160
6108	37	225S	14211	B140	162	584	825	740	40	28	1300	690	350	129	343	1042	1004	2116	2000										
	45	225M				651												2211		2100									
	55	250M				14212												B160		702	400	368							

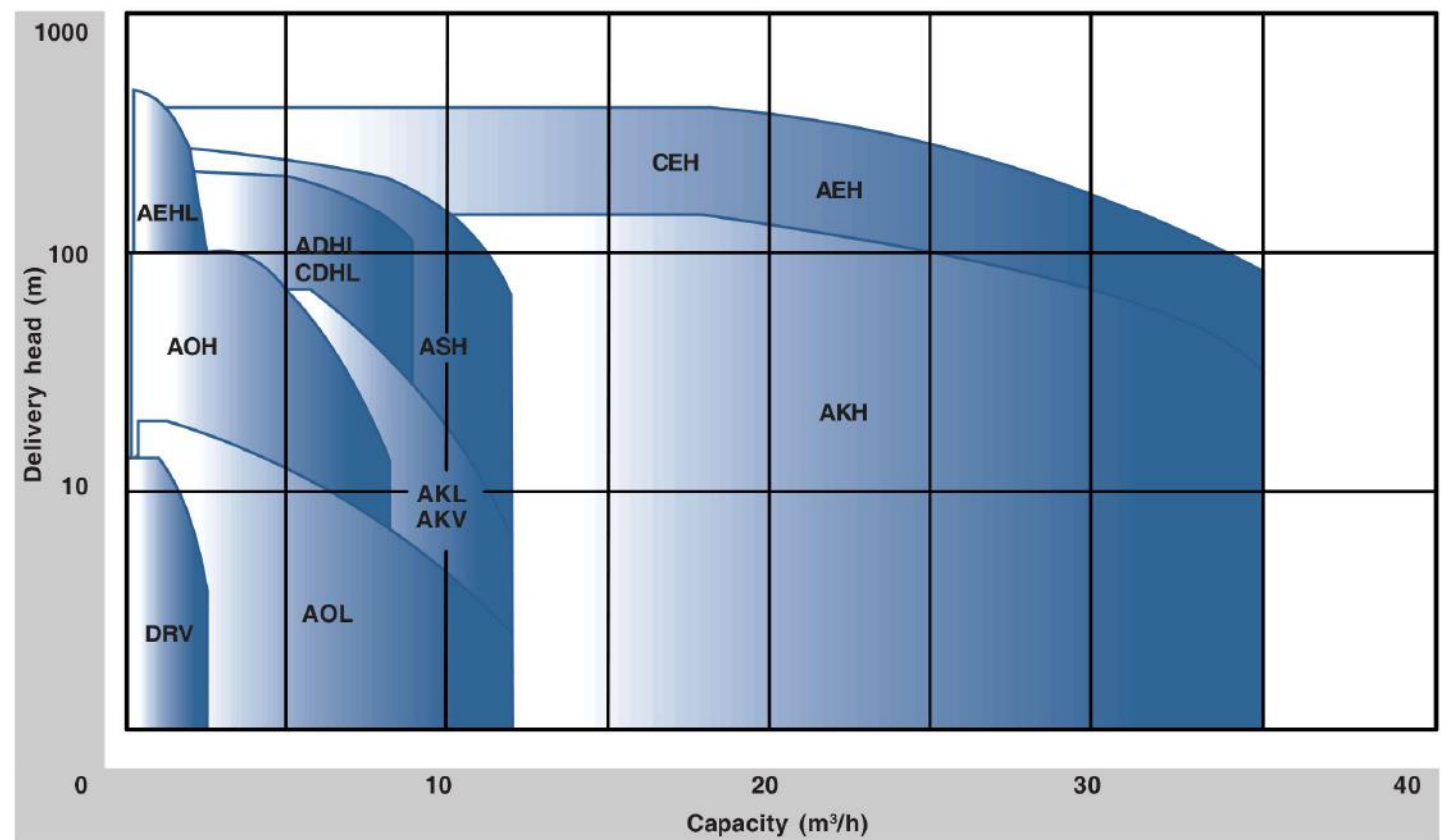
* Dimensions depend on motor brand.
The weight will be approximately 6% higher when using Stainless steel.

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.

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