

CEH

Sizes 1201 ... 6108, 1202/5 ... 6108/5, 1202/7 ... 6107/7

Technical data

Capacity:	max. 35 m ³ /h
Delivery head:	max. 354 m
Speed:	max. 1800 1/min
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:	anti-clockwise (when seen from the drive end)



Application

The SIHI CEH pump is a self-priming side channel pump capable of handling gas along with the medium and operates at a low noise level.

The CEH pumps are used for problem-free pumping of clean liquids at unfavourable suction side conditions. They are also very suitable for positive suction heads below 0.5m.

The different material possibilities with uniform dimensions and performance characteristics as well as the standard exchangeable components, make the CEH particularly recommendable for applications in the pharmaceutical, chemical or petrochemical market as well as in the plastic or oil industry. Because of its low NPSH and positive suction head the CEH is very suitable for the pumping of liquefied gasses and liquids under vapour pressure like condensate, refrigerant, boiler feed water or LPG.

The pumps of the CEH /7 series have a retaining stage to avoid the dry running by controlling the liquid level in the pump. This design is especially developed for the handling of liquids under vapour pressure or when pumping from underground tanks. The series CEH /5 are used for bottom off-loading of liquids under vapour pressure.

Design

Pumps of the series CEH have a segmental type construction with open vane wheel impellers. The construction of the CEH pump is a so-called centrifugal combined system. This combination pump is suited with a centrifugal stage in serial connection before the side channel stages to obtain a more favourable NPSH. 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.

Pumps of the series CEH /7 are equal to the CEH series but equipped with a retaining stage. This program comprises 6 sizes with 2-7 stages. The series CEH /5 have also 6 sizes but with 2-8 stages.

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

Axial suction branch, discharge branch points 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

One grease lubricated ball bearing according to DIN 625 and one liquid surrounded sleeve bearing (design A). The ball bearing is greased for life.

Direction of rotation

Anti-clockwise, when looking from the drive end.

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 CEH can also be supplied with a magnetic coupling (for information see the separate catalogue).

Material design

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	EN-GJL-250			EN-GJS-400-18-LT		
1080 1090 1140 1141	Intermediate piece	EN-GJL-250			EN-GJS-400-18-LT		
2100	Shaft	X 20 Cr 13					
2310	Impeller	EN-GJL-250					
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					
4410	Mechanical seal casing	EN-GJL-250			EN-GJS-400-18-LT		
4510	Stuffing box casing	EN-GJL-250			EN-GJS-400-18-LT		
0241	Bearing bush	CY 10 C / Carbon Antimony*					

* Bearing bush in carbon antimony is used only in the high temperature design. This high temperature design is also provided with cup springs and a cooled stuffing box or cooled mechanical seal.

Stainless steel

Pos.	Components	Material design	
		4B	4F
1060	Suction casing	G-X 6 CrNiMo 18 10	
1070	Discharge casing	G-X 6 CrNiMo 18 10	
1080 1090 1140 1141	Intermediate piece	G-X 6 CrNiMo 18 10	
2100	Shaft	X 5 CrNiMo 17 12 2	
2310	Impeller	G-X 3 CrNiMoNb 18 10	
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	
0241	Bearing bush	CY 10 C / Carbon Antimony *	

* Bearing bush in carbon antimony is used only in the high temperature design. This high temperature design is also provided with cup springs and a cooled stuffing box or cooled mechanical seal.

Casing seal

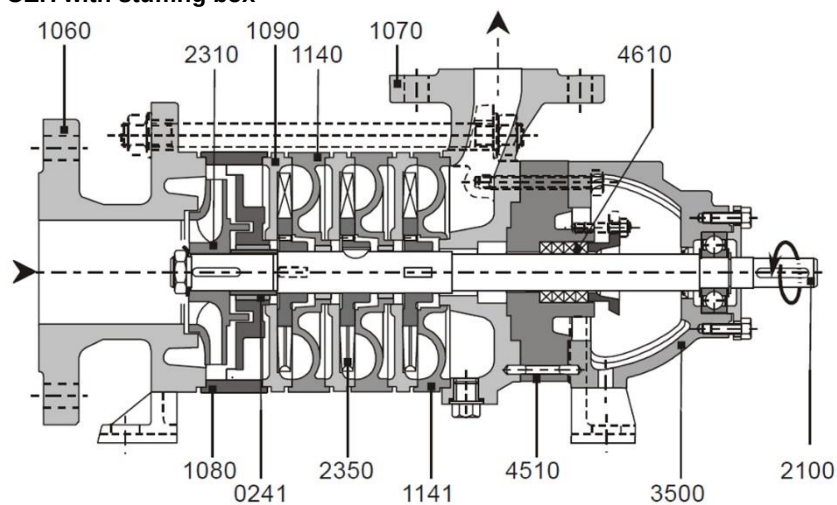
The casing seal can be sealed with a liquid compound or soft Teflon.

Drive

By lelectrica motor, type of construction IM B3.
For LPG, EExe or Eex d(e) motors are available.

Sectional drawing and parts list

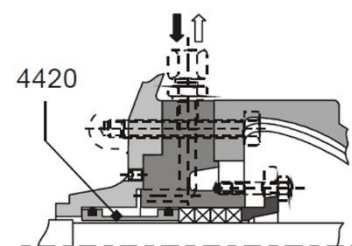
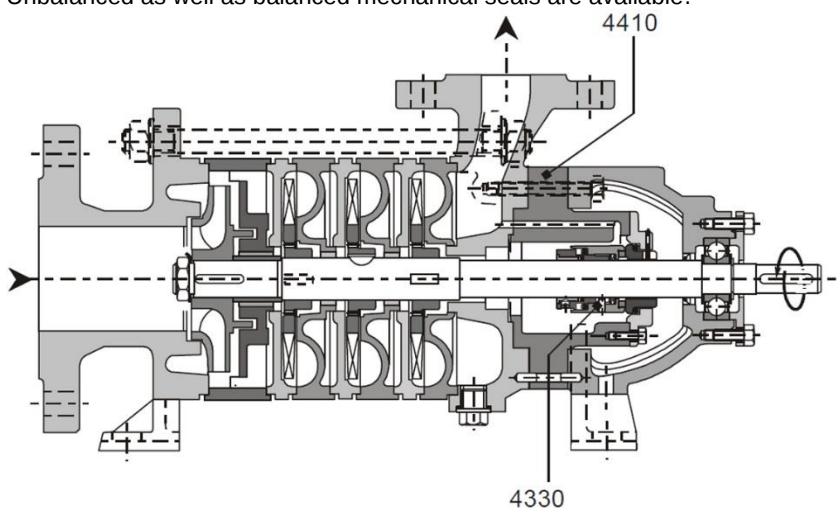
CEH with stuffing box



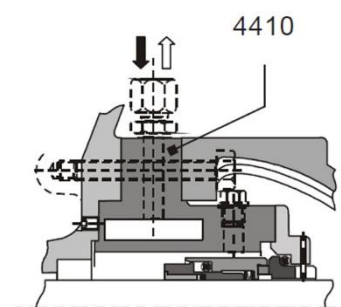
0241	Bearing bush
1060	Suction casing
1070	Discharge casing
1080	Intermediate piece
1081	Retaining stage
1090	Suction intermediate piece
1140	Discharge intermediate piece
1141	Discharge intermediate piece
2100	Shaft
2310	Impeller
2350	Vane wheel impeller
3500	Bearing housing
4330	Mechanical seal
4410	Mechanical seal casing
4420	Cooling insert
4510	Stuffing box casing
4610	Stuffing box

CEH with mechanical seal

Unbalanced as well as balanced mechanical seals are available.

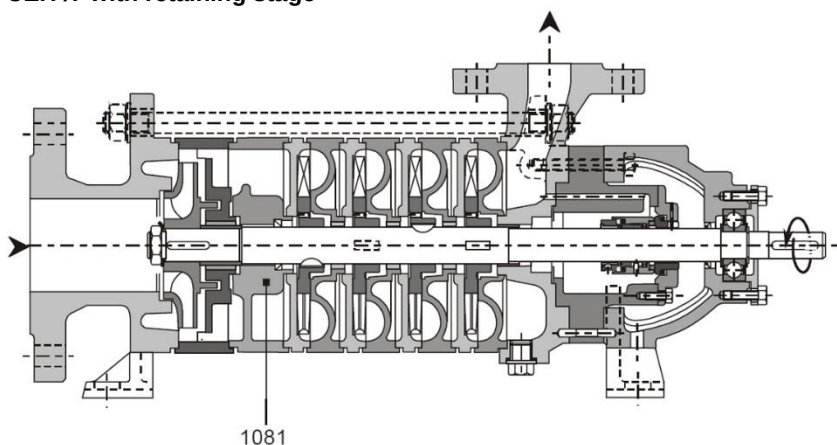


Cooled stuffing box



Cooled mechanical seal

CEH /7 with retaining stage



Performance range

General conditions

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

Characteristic tolerances

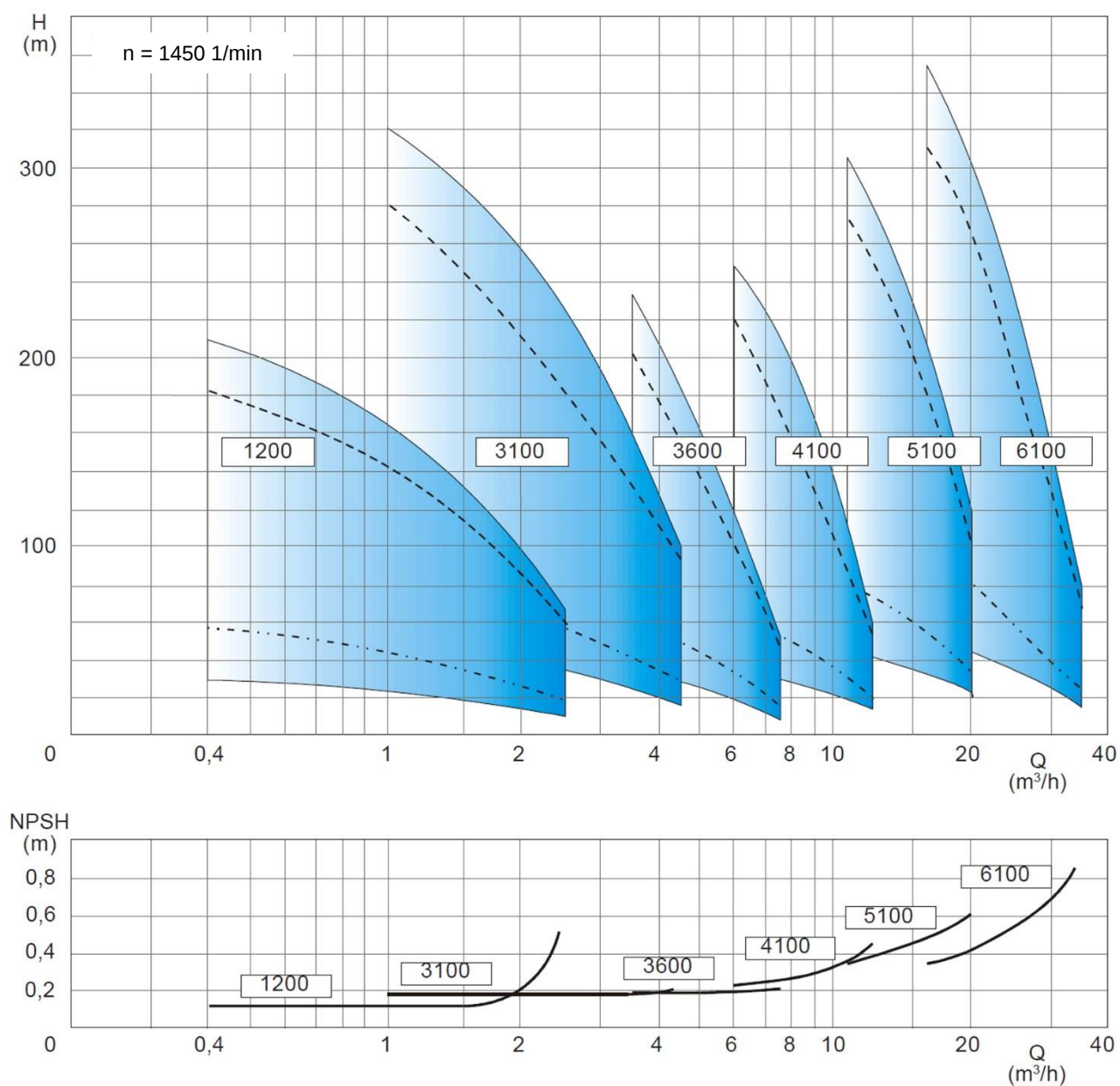
Capacity $\pm 5\%$ - Delivery head $\pm 5\%$ - Power + 10%

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.

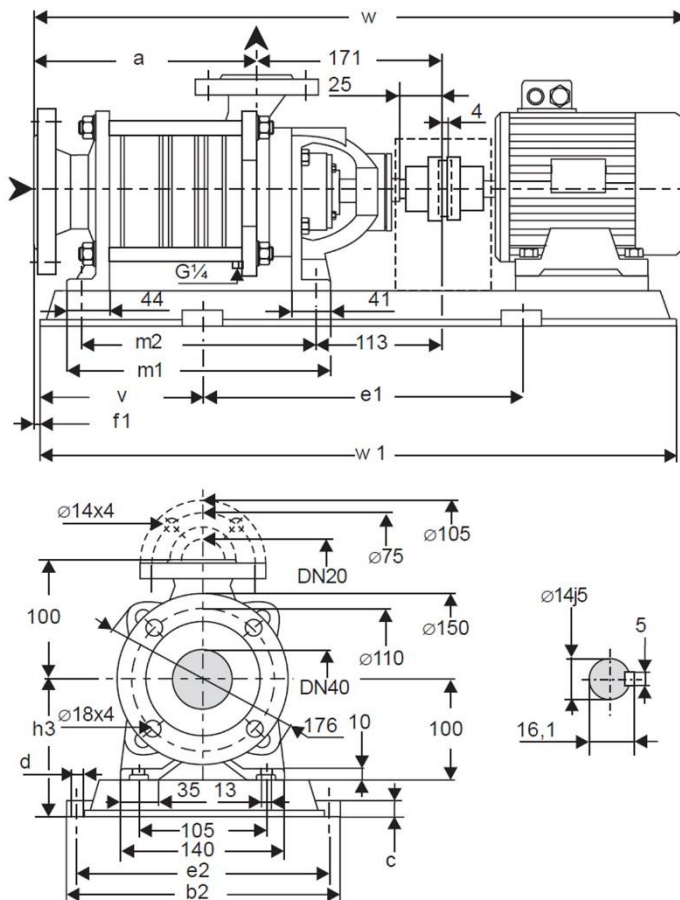
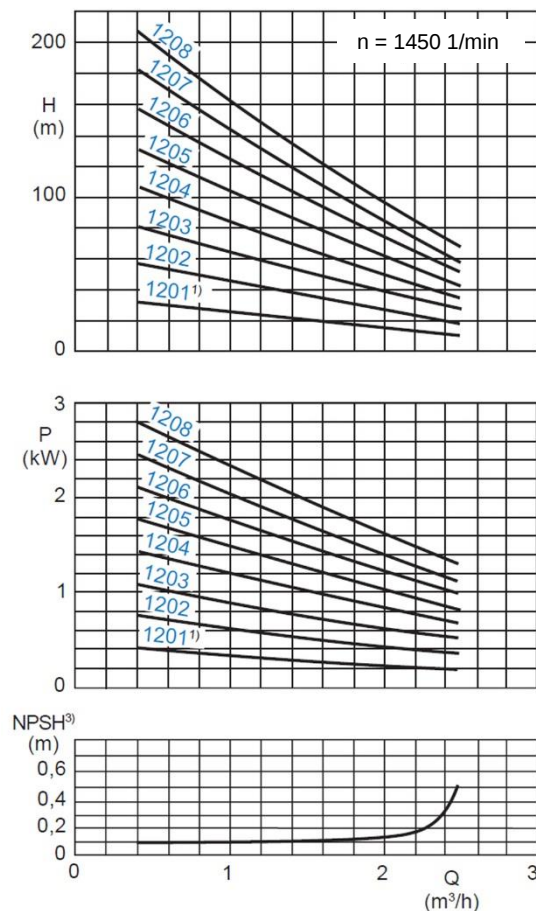
--- = Maximum for CEH /7 (with retaining stage)
 - · - = Minimum for CEH /5 (e.g. LPG handling), CEH/7



The NPSH curve is suitable for liquids without gas. When using a liquid containing gas (e.g. water 20°C) a safety margin of 1 m has to be added.

Dimension chart, pump set drawing and performance curves

CEH 1200 and CEH 1200/5



Values are valid for water at 1 kg/dm³ and Viscosity at 1 cSt.

Capacity ± 5% - Delivery head ± 5% - Power + 10%

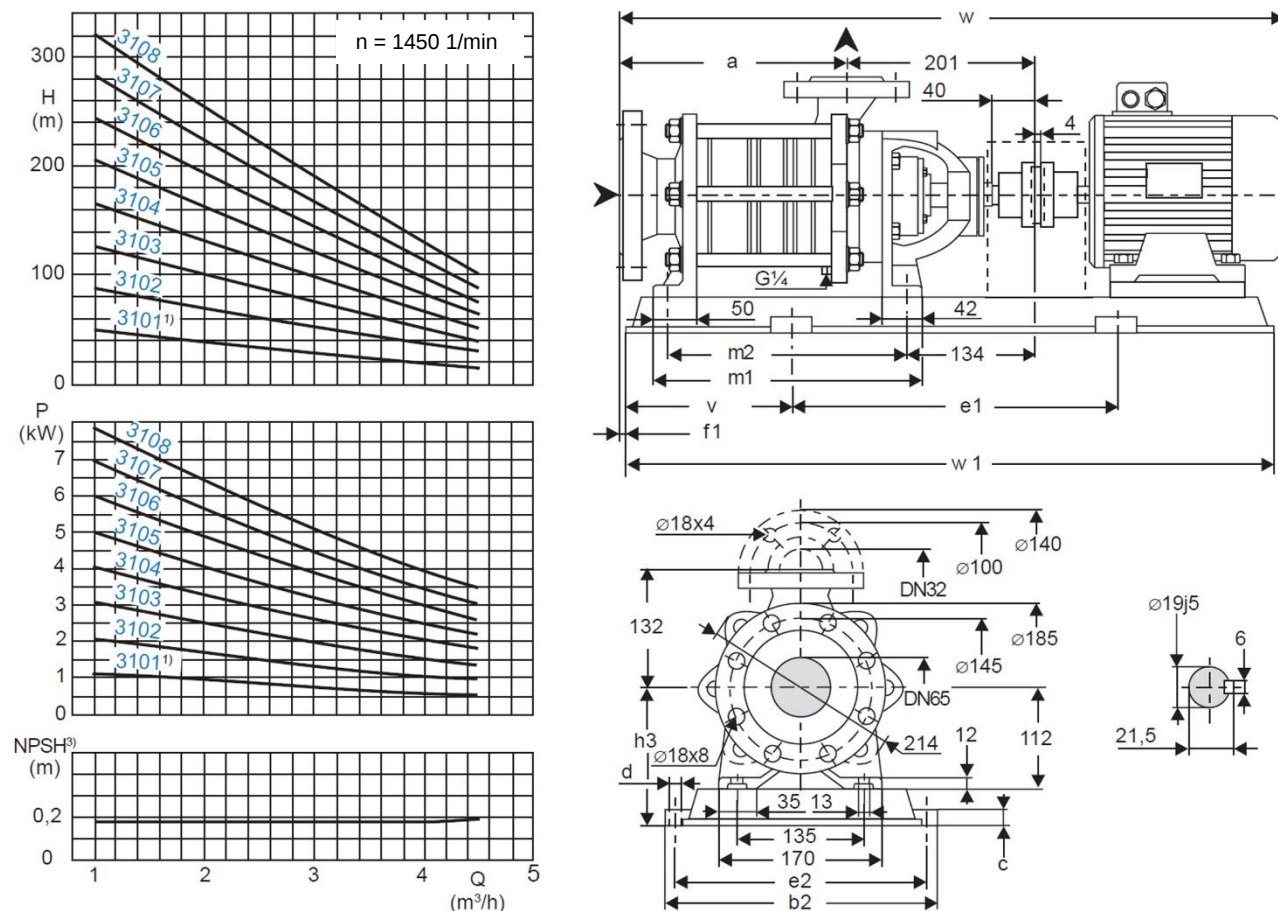
For designs with a mechanical seal or a casing seal of soft Teflon, the tolerance for the delivery head is extended by 2% each.

Pump size	Motor			Base plate	Coupling		Weight [kg]		Dimensions [mm]																							
	kW	kW ²⁾	size		B	BDS ²⁾	Pump	set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1											
1201	0.37	1)	71	P007	68	1)	18	39	195	317	20	15	350	285	110	-9	135	238	204	609	570											
	0.55		80	P008				45														297	400	265	120	140	643	640				
1202	0.55	0.55	80	P008	68	76	20	47	229	297	20	15	400	265	120	-9	140	272	238	677	640											
	0.75	0.75	80					44																								
	1.1	1.0	90S	P241				56														330	25	19	480	290	125	165	735	730		
1203	0.75	0.75	80	P210	68	76	22	52	263	300	25	19	420	260	115	-9	165	306	272	711	650											
	1.1	1.0	90S	P241				58														330	480	290	125	769	730					
	1.5	1.35	90L	62				360														540	320	140	844	820						
1204	1.1	1.0	90S	P241	68	76	24	60	297	330	25	19	480	290	125	-9	165	340	306	803	730											
	1.5	1.35	90L					64														360	540	320	140	844	820					
	2.2	2.0	100L	P272				75														360	540	320	140	844	820					
1205	1.1	1.0	90S	P272	68	76	26	66	331	360	25	19	540	320	140	-9	165	374	340	837	820											
	1.5	1.35	90L					70														360	540	320	140	878	820					
	2.2	2.0	100L	80				88														77	360	540	320	140	871	820				
1206	1.5	1.35	90L	P272	68	76	28	72	365	361	25	15	540	325	160	-9	150	408	374	912	920											
	2.2	2.0	100L	P015				80														88	84	361	600	325	160	150	408	374	912	920
	3.0	2.5	100L	85				361														600	325	160	150	408	374	912	920			
1207	1.5	1.35	90L	P015	68	76	30	74	399	361	25	15	600	325	160	-9	150	442	408	905	920											
	2.2	2.0	100L					86														361	600	325	160	150	442	408	946	920		
	3.0	2.5	100L	87				361														600	325	160	150	442	408	946	920			
1208	2.2	2.0	100L	P015	80	88	32	88	433	361	25	15	600	325	160	-9	150	476	442	980	920											
	3.0	2.5	100L					89																								

* Dimensions depend upon the motor brand. 1) Not for design CEH /5, 2) for EExe II T3 motors, 3) A safety margin of 1 m has to be added when using a liquid containing gas. The weight for stainless steel will be approximately 6% higher.

Dimension chart, pump set drawing and performance curves

CEH 3100 and CEH 3100/5



Values are valid for water at 1 kg/dm³ and Viscosity at 1 cSt.

Capacity ± 5% - Delivery head ± 5% - Power + 10%

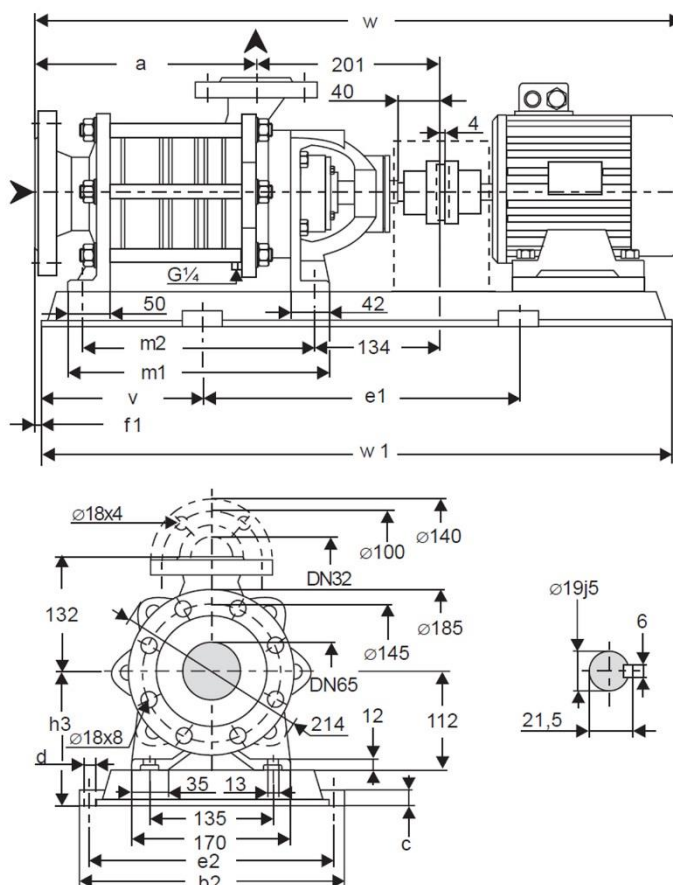
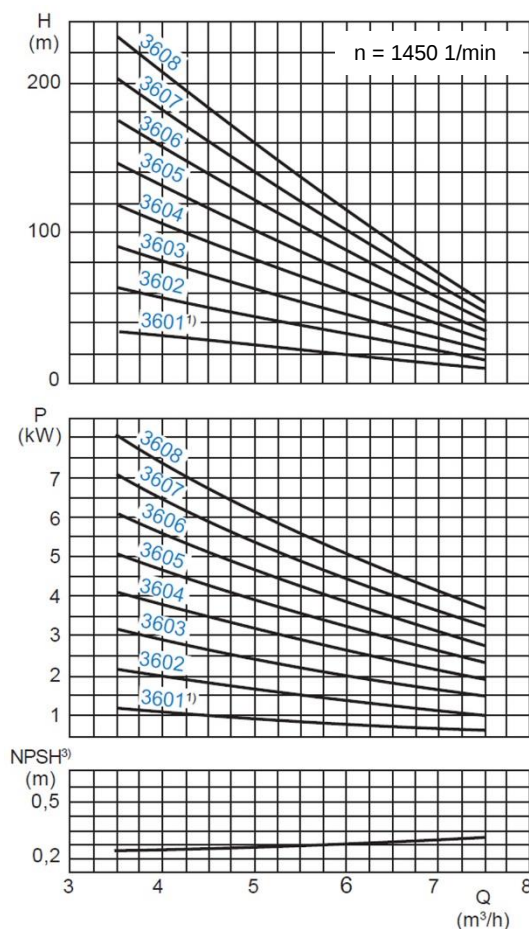
For designs with a mechanical seal or a casing seal of soft Teflon, the tolerance for the delivery head is extended by 2% each.

Pump size	Motor			Base plate	Coupling		Weight [kg] Pump	Set	Dimensions [mm]												
	kW	kW ²⁾	size		B	BDS ²⁾			a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
3101	0.75	1)	80	P008	68	1)	31	60	213	297	20	15	400	265	120	-13	152	261	227	691	640
	1.1		90S	P241				67		330	25	19	480	290	125		177			749	730
3102	1.1	1.0	90S	P241	68	78	34	72	253	330	25	19	480	290	125	-13	177	301	267	789	730
	1.5	1.35	90L					74		360			540	320	140		830			820	
	2.2	2.0	100L	P272	80	88		81	89		293	360		25	19		540	320	140	-13	177
3103	3.0	2.5	100L	P272	80	88	38	90	333	360		25	19	540	320	140	-13	177	341		307
	2.2	2.0	100L	P272	80	88	42	93		361	25			15	600	325		160		-13	
3104	3.0	2.5	100L					P015	80			88	45		94	373	361	25	15		600
	4.0	3.6	112M	117	700	325	200			192	1047			1100							
	3.0	2.5	100L	P015				80	88		48	102	413	361	25	15	600	325	160	-13	162
	3105	4.0	3.6		112M	P015	80			88		52		120			453	361	25		15
5.5		5.0	132S	P017	95			103	143		700		325	200	172	1193		1285		1270	
4.0		3.6	112M			P017	80			88		171	413	361			25		15		700
3106	5.5	5.0	132S	P017	95	103	55	198	493	361	25	15	700	325	200	-13	192	541	507	1167	1100
	7.5	6.8	132M					205		540			30	24	840		490			215	240
	4.0	3.6	112M	P017	80	88	52	143	453	361	25	15	700	325	200	-13	192	501	467	1051	1100
5.5	5.0	132S	165					700		325			200	172	1127		1100				
3107	7.5	6.8	132M	P017	95	103	55	205	493	361	25	15	700	325	200	-13	192	501	467	1153	1100
	5.5	5.0	132S					198		540			30	24	840		490			215	240
	7.5	6.8	132M	P017	95	103	55	208	493	361	25	15	700	325	200	192	541	507	1193	1285	1270
3108	11.0	10.0	160M	P436				253		540	30	24	840	490	215		240			1285	1270

* Dimensions depend upon the motor brand. ¹⁾ Not for design CEH /5, ²⁾ for EExe II T3 motors, ³⁾ A safety margin of 1 m has to be added when using a liquid containing gas. The weight for stainless steel will be approximately 6% higher.

Dimension chart, pump set drawing and performance curves

CEH 3600 and CEH 3600/5



Values are valid for water at 1 kg/dm³ and Viscosity at 1 cSt.

Capacity ± 5% - Delivery head ± 5% - Power + 10%

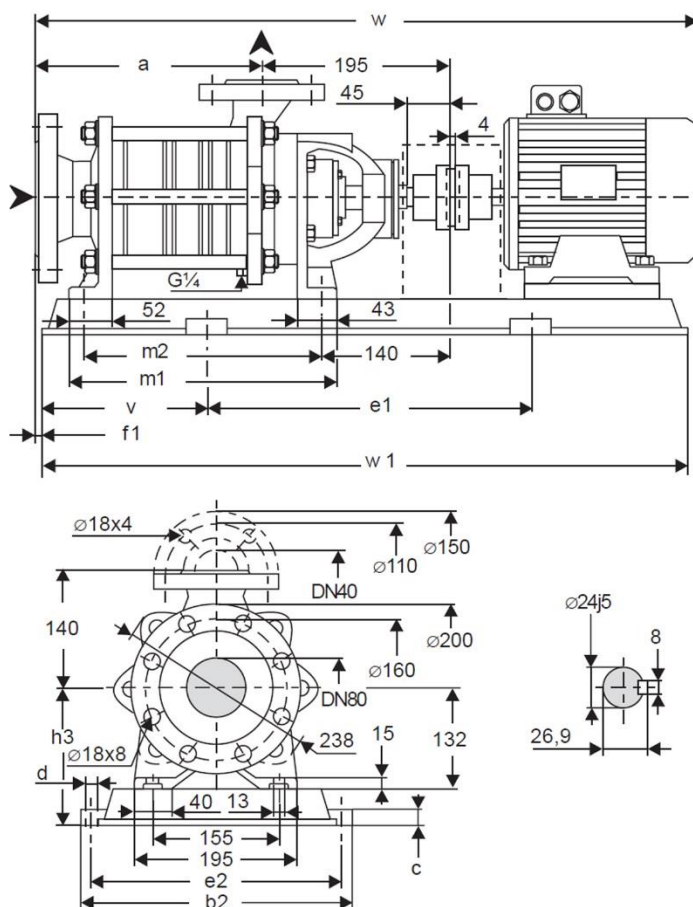
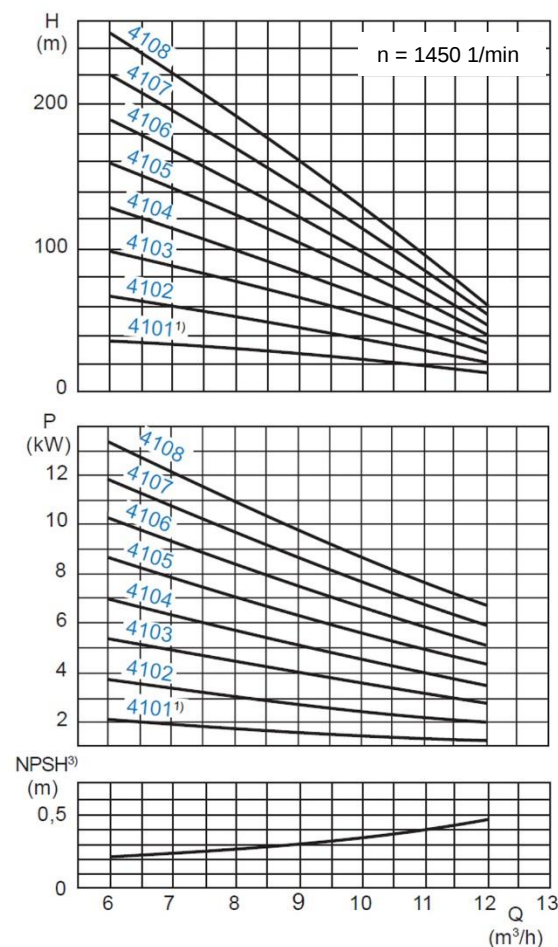
For designs with a mechanical seal or a casing seal of soft Teflon, the tolerance for the delivery head is extended by 2% each.

Pump size	Motor			Base plate	Coupling		Weight [kg] Pump	Set	Dimensions [mm]																
	kW	kW ²⁾	size		B	BDS ²⁾			a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1				
3601	0.75	1 ¹⁾	80	P008	68	1 ¹⁾	31	55	213	297	20	15	400	265	120	-13	152	261	227	691	640				
	1.1		90S	P241				67		330	25	19	480	290	125		177			749	730				
	1.5		90L					74																	
3602	1.5	1.35	90L	P241	68	76	34	74	253	330	25	19	480	290	125	-13	177	301	267	789	730				
	2.2	2.0	100L	P272	80	88		89		360			540	320	140		830			820					
3603	2.2	2.0	100L	P272	80	88	38	89	293	360	25	19	540	320	140	-13	177	341	307	870	820				
	3.0	2.5	100L					101									101			891					
	4.0	3.6	112M					119																	
3604	3.0	2.5	100L	P272	80	88	42	105	333	360	25	19	540	320	140	-13	177	381	347	910	820				
	4.0	3.6	112M	P015				117		361							15			600	325	160	162	931	920
	5.5	5.0	132S					95		103							152			182	1007				
3605	3.0	2.5	100L	P015	80	88	45	102	373	361	25	15	600	325	160	-13	162	421	387	950	920				
	4.0	3.6	112M					120									700			200		192	971		
	5.5	5.0	132S					P017									95			103		171			
3606	4.0	3.6	112M	P015	80	88	48	123	413	361	25	15	600	325	160	-13	162	461	427	1011	920				
	5.5	5.0	132S	P017	95	103		161					700		200		192			1087	1100				
	7.5	6.8	132M					171																	
3607	5.5	5.0	132S	P017	95	103	52	165	453	361	25	15	700	325	200	-13	192	501	467	1127	1100				
	7.5	6.8	132M					168									1153								
3608	5.5	5.0	132S	P017	95	103	55	161	493	361	25	15	700	325	200	-13	192	541	507	1167	1100				
	7.5	6.8	132M					171									1193								
	11.0	10.0	160M					P436									254			540		30	24	840	490

* Dimensions depend upon the motor brand. ¹⁾ Not for design CEH /5, ²⁾ for EExe II T3 motors, ³⁾ A safety margin of 1 m has to be added when using a liquid containing gas. The weight for stainless steel will be approximately 6% higher.

Dimension chart, pump set drawing and performance curves

CEH 4100 and CEH 4100/5



Values are valid for water at 1 kg/dm³ and Viscosity at 1 cSt.

Capacity ± 5% - Delivery head ± 5% - Power + 10%

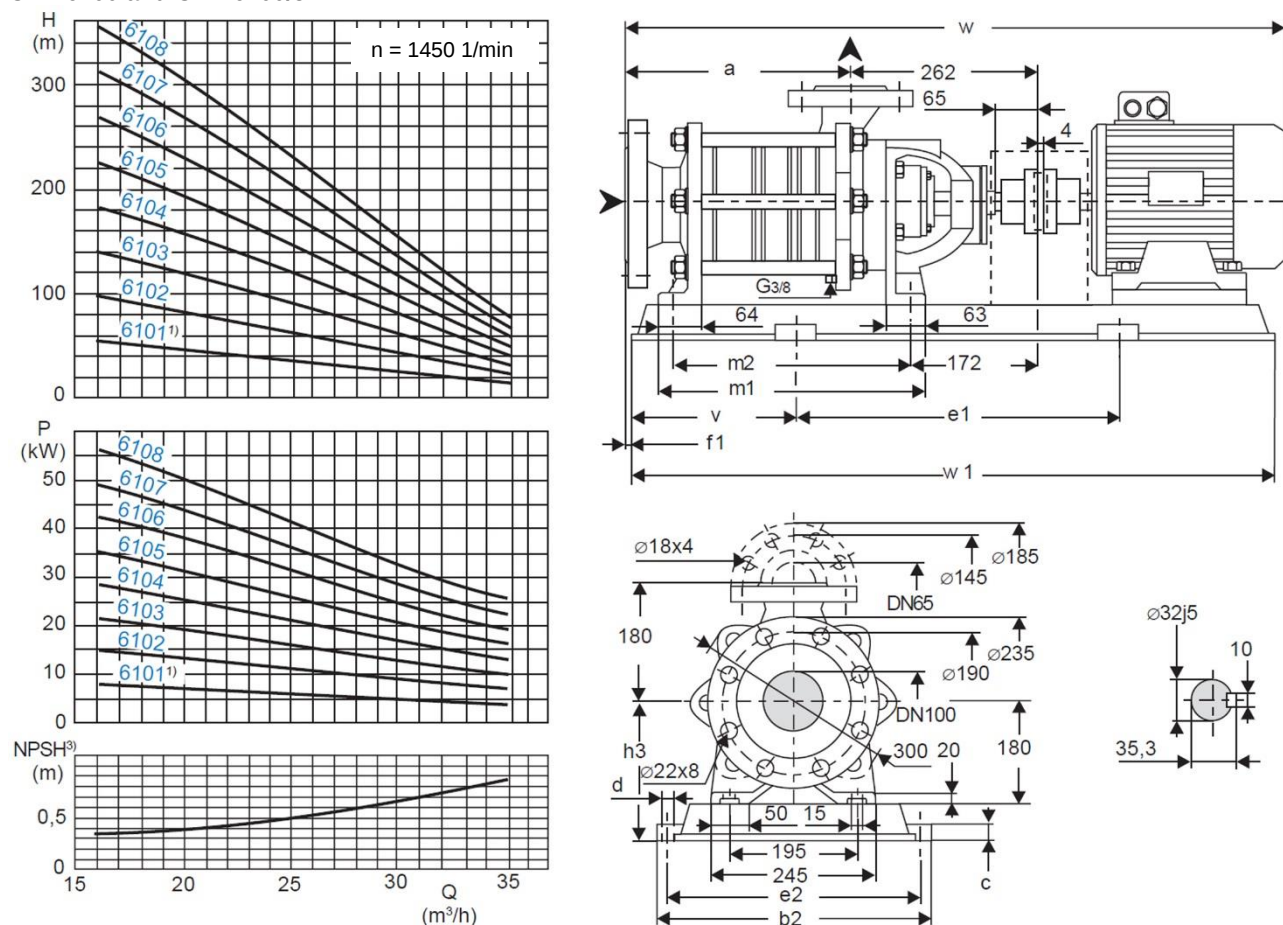
For designs with a mechanical seal or a casing seal of soft Teflon, the tolerance for the delivery head is extended by 2% each.

Pump size	Motor			Base plate	Coupling		Weight [kg]	Dimensions [mm]													
	kW	kW ²⁾	size		B	BDS ²⁾		Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*
4101	1.5	1)	90L	P241	68	1)	41	81	268	330	25	19	480	290	125	-23	197	294	260	798	730
	100L		P272	80	95			360		540			320	140	839					820	
4102	2.2	2.0	100L	P272	80	88	47	98	323	360	25	19	540	320	140	-23	197	349	315	894	820
	3.0	2.5	100L					110													
	4.0	3.6	112M					128													
4103	4.0	3.6	112M	P015	80	88	53	128	378	361	25	15	600	325	160	-23	182	404	370	970	920
	5.5	5.0	132S	P017	95			179					700	200	192		1046			1100	
4104	5.5	5.0	132S	P017	95	103	59	172	433	361	25	15	700	325	200	-23	192	459	425	1101	1100
	7.5	6.8	132M					182												1127	
4105	5.5	5.0	132S	P017	95	103	65	178	488	361	25	15	700	325	200	-23	192	514	480	1156	1100
	7.5	6.8	132M					181												1182	
	11.0	10.0	160M					P385												264	
4106	7.5	6.8	132M	P385	95	103	70	196	543	490	30	24	740	440	200	-23	212	569	535	1237	1140
	11.0	10.0	160M	P436				269		540			840	490	215		240			1329	1270
4107	7.5	6.8	132M	P436	95	103	76	202	598	540	30	24	840	490	215	-23	212	624	590	1292	1270
	11.0	10.0	160M					275									240			1384	
	15.0	13.5	160L					P487									110			118	
4108	11.0	10.0	160M	P487	95	103	82	281	653	610	35	28	940	550	240	-23	260	679	645	1439	1420
	15.0	13.5	160L		110	118		355												1501	

* Dimensions depend upon the motor brand. ¹⁾ Not for design CEH /5, ²⁾ for EExe II T3 motors, ³⁾ A safety margin of 1 m has to be added when using a liquid containing gas. The weight for stainless steel will be approximately 6% higher.

Dimension chart, pump set drawing and performance curves

CEH 6100 and CEH 6100/5



Values are valid for water at 1 kg/dm³ and Viscosity at 1 cSt.

Capacity ± 5% - Delivery head ± 5% - Power + 10%

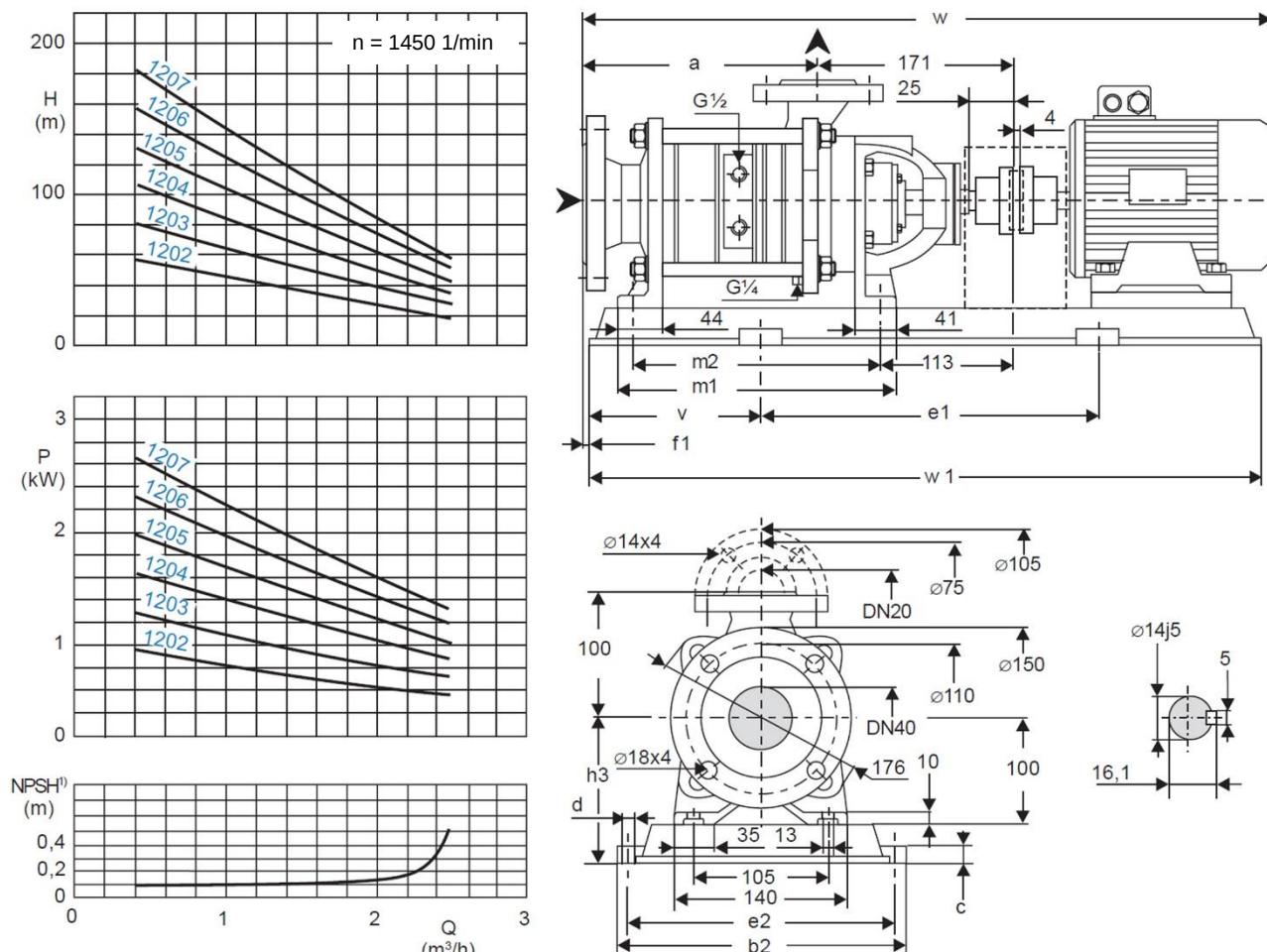
For designs with a mechanical seal or a casing seal of soft Teflon, the tolerance for the delivery head is extended by 2% each.

Pump size	Motor			Base plate	Coupling		Weight [kg]		Dimensions [mm]												
	kW	kW ²⁾	size		B	BDS ²⁾	Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
6101	5.5	1)	132S	P017	95	1)	80	206	338	361	25	15	700	325	200	-35	240	391	353	1073	1100
	7.5		132M					203												1099	
6102	11.0	10.0	160M	P385	95	103	92	291	428	490	30	24	740	440	200	-35	260	481	443	1281	1140
	15.0	13.5	160L	P436	110	118		365					840	490	215					1343	1270
6103	18.5	15.0	180M	P487	110	118	105	404	518	610	35	28	940	550	240	-35	280	571	533	1495	1420
	22.0	17.5	180L		125	135		419													
6104	22.0	17.5	180L	P487	125	135	117	431	608	610	35	28	940	550	240	-35	280	661	623	1585	1420
	30.0	24.0	200L	P538				512					1060	600	280		300			1643	1620
6105	30.0	24.0	200L	P538	125	135	130	525	698	660	35	28	1060	600	280	-35	300	751	713	1733	1620
	37.0	30.0	225S		140	152		594									325			1798	
6106	30.0	24.0	200L	P538	125	135	142	537	788	660	35	28	1060	600	280	-35	300	841	803	1823	1620
	37.0	30.0	225S	606	730	40		1200					670	310	325		1888			1820	
6107	45.0	36.0	225M	S609	140	152	155	670	730	730	40	28	1200	670	310	-35	325	931	893	1978	1820
	30.0	24.0	200L	S389	125	135		550									540			490	300
6108	37.0	30.0	225S	S609	140	152	167	619	878	740	40	28	1300	690	350	-35	325	931	893	1978	1820
	45.0	36.0	225M					683									730			40	1200
6108	37.0	30.0	225S	14211	140	152	167	532	968	740	40	28	1300	690	350	-35	345	1021	983	2003	2000
	45.0	36.0	225M					630									740			40	28
6108	55.0	44.0	250M	14212	160	-		701									370			2125	2100

* Dimensions depend upon the motor brand. 1) Not for design CEH /5, 2) for EExe II T3 motors, 3) A safety margin of 1 m has to be added when using a liquid containing gas. The weight for stainless steel will be approximately 6% higher.

Dimension chart, pump set drawing and performance curves

CEH 1200/7 (with retaining stage)



Values are valid for water at 1 kg/dm³ and Viscosity at 1 cSt.

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.

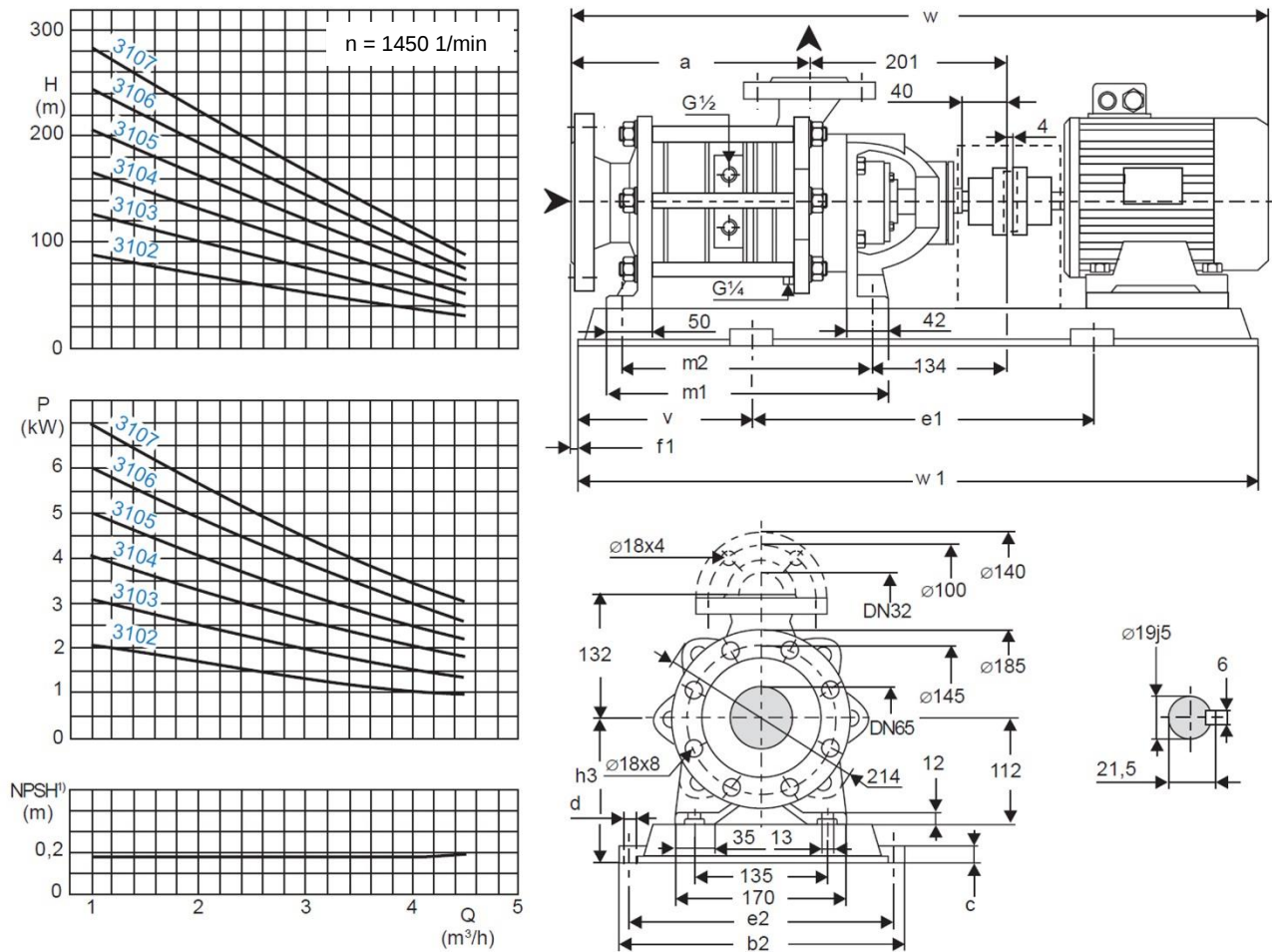
Pump size	Motor		Base plate	Coupling BDS	Weight [kg]		Dimensions [mm]												
	kW	size			Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
1202/7	0.55	80	P210	76	22	52	263	300	25	19	420	260	115	-9	165	306	272	709	650
	0.75	80				53													
1203/7	0.75	80	P241	76	24	54	297	330	25	19	480	290	125	-9	165	340	306	743	730
	1.1	90S				64												796	
1204/7	1.1	90S	P272	76	26	70	331	360	25	19	540	320	140	-9	165	374	340	930	820
	1.5	90L				71													
1205/7	1.5	90L	P272	76	28	73	365	360	25	19	540	320	140	-9	165	408	374	864	820
	2.0	100L	P015	88		84		361							15			600	
1206/7	1.5	90L	P015	76	30	69	399	361	25	15	600	325	160	-9	150	442	408	898	920
	2.0	100L		88		86												956	
1207/7	1.5	90L	P015	76	32	71	433	361	25	15	600	325	160	-9	150	476	442	932	920
	2.0	100L		88		91												990	

* Dimensions depend upon the motor brand

¹) A safety margin of 1 m has to be added when using a liquid containing gas.

Dimension chart, pump set drawing and performance curves

CEH 3100/7 (with retaining stage)



Values are valid for water at 1 kg/dm^3 and Viscosity at 1 cSt .

Capacity $\pm 5\%$ - Delivery head $\pm 5\%$ - 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.

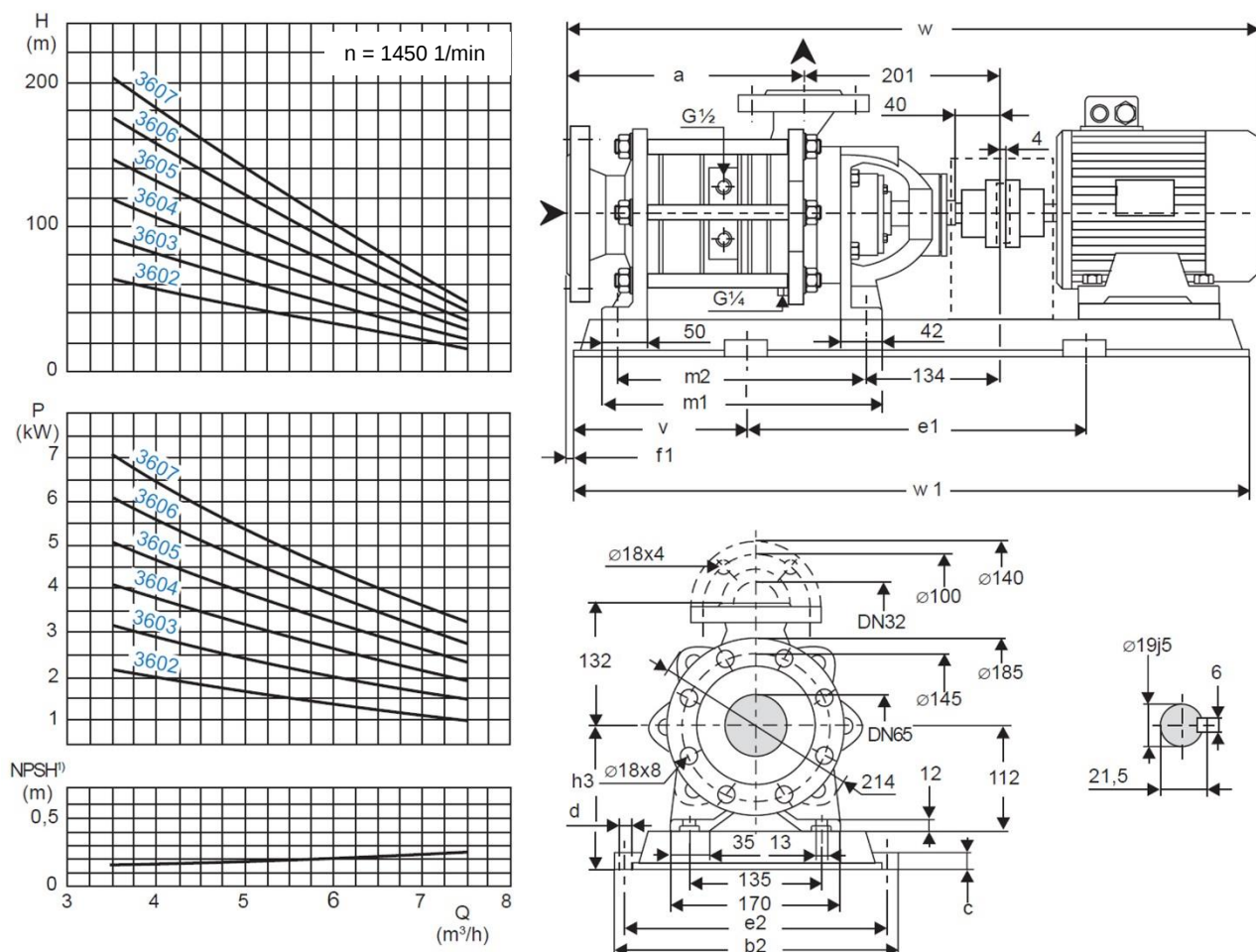
Pump size	Motor		Base plate	Coupling BDS	Weight [kg]		Dimensions [mm]												
	kW	size			Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
3102/7	1.5	90L	P272	76	38	87	293	360	25	19	540	320	140	-13	177	341	307	822	820
	2.0	100L		88		100												880	
3103/7	2.0	100L	P272	88	42	104	333	360	25	19	540	320	140	-13	177	381	347	920	820
	2.5	100L				106												920	
3104/7	2.5	100L	P015	88	45	101	373	361	25	15	600	325	160	-13	162	421	387	960	920
	3.6	112M				107												966	
3105/7	2.5	100L	P015	88	48	107	413	361	25	15	600	325	160	-13	162	461	427	1000	920
	3.6	112M				110												1006	
3106/7	3.6	112M	P017	88	52	117	453	361	25	15	700	325	200	-13	172	501	467	1046	1100
	5.0	132S		103		151									192			1142	
3107/7	3.6	112M	P017	88	55	120	493	361	25	15	700	325	200	-13	172	541	507	1086	1100
	5.0	132S		103		154									192			1182	

* Dimensions depend upon the motor brand

¹⁾ A safety margin of 1 m has to be added when using a liquid containing gas.

Dimension chart, pump set drawing and performance curves

CEH 3600/7 (with retaining stage)



Values are valid for water at 1 kg/dm³ and Viscosity at 1 cSt.

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.

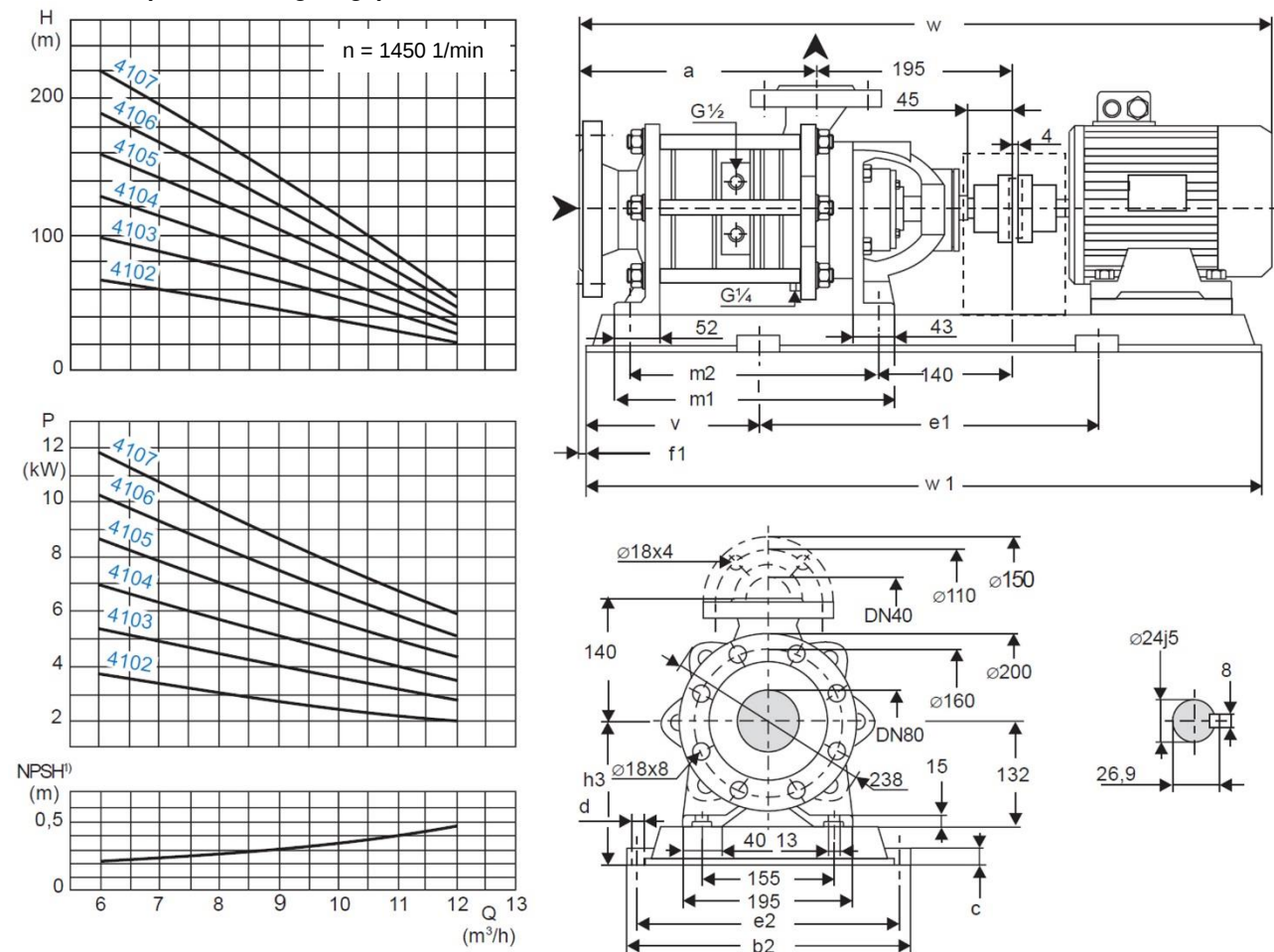
Pump size	Motor		Base plate	Coupling BDS	Weight [kg]		Dimensions [mm]														
	kW	size			Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1		
3602/7	1.5	90L	P272	76	38	87	293	360	25	19	540	320	140	-13	177	341	307	822	820		
	2.0	100L		88		100												880			
3603/7	2.0	100L	P272	88	42	104	333	360	25	19	540	320	140	-13	177	381	347	920	820		
	2.5	100L				106															
3604/7	2.5	100L	P015	88	45	101	373	361	25	15	600	325	160	-13	162	421	387	960	920		
	3.6	112M				107												966			
3605/7	2.5	100L	P015	88	48	107	413	361	25	15	600	325	160	-13	162	461	427	1000	920		
	3.6	112M				110												1006			
3606/7	3.6	112M	P017	88	52	117	453	361	25	15	700	325	200	-13	172	501	467	1046	1100		
	5.0	132S		103		151									192			1142			
3607/7	3.6	112M	P017	88	55	120	493	361	25	15	700	325	200	-13	172	541	507	1086	1100		
	5.0	132S		103		154									192			1182			

* Dimensions depend upon the motor brand

¹⁾ A safety margin of 1 m has to be added when using a liquid containing gas.

Dimension chart, pump set drawing and performance curves

CEH 4100/7 (with retaining stage)



Values are valid for water at 1 kg/dm^3 and Viscosity at 1 cSt .

Capacity $\pm 5\%$ - Delivery head $\pm 5\%$ - 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.

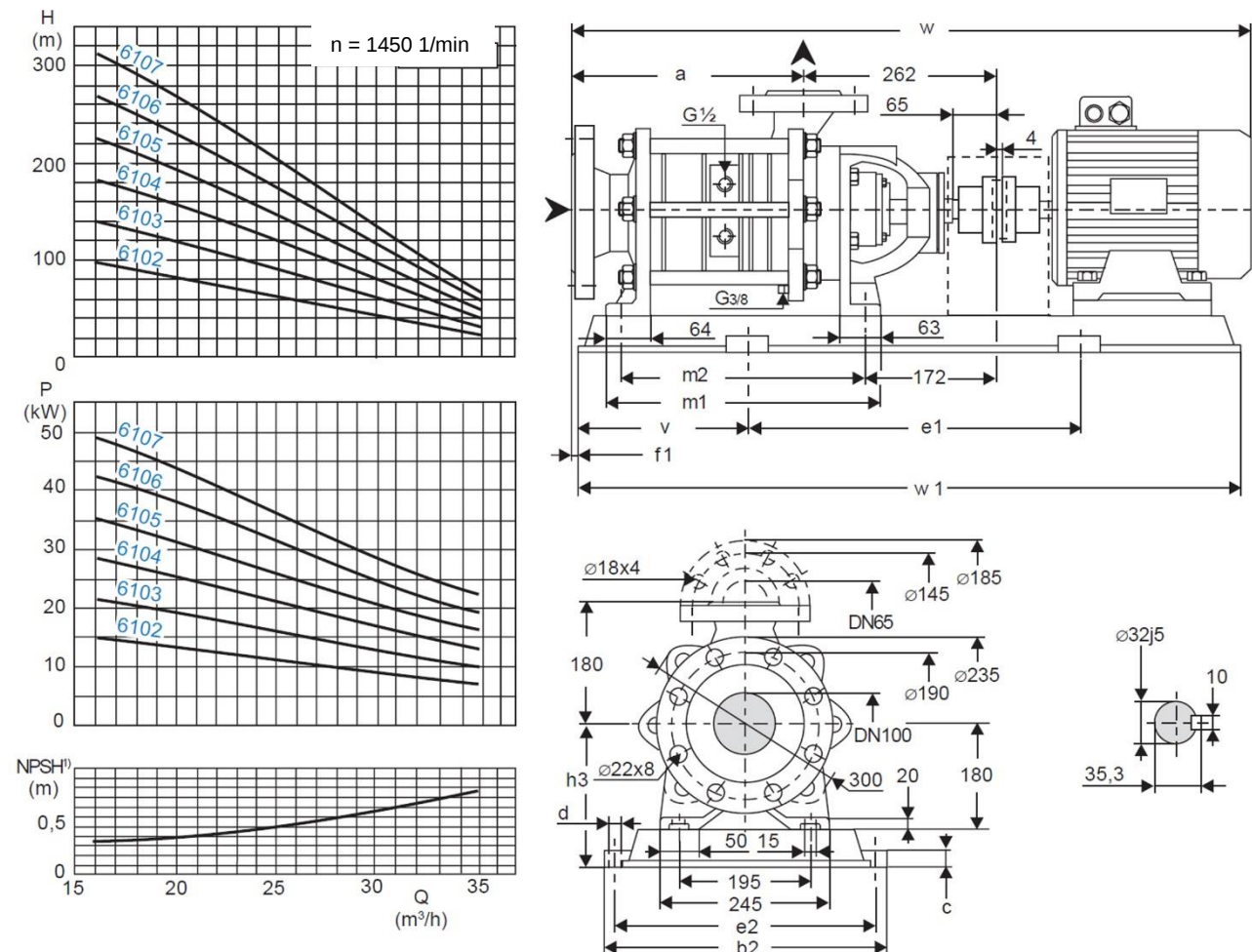
Pump size	Motor		Base plate	Coupling BDS	Weight [kg]		Dimensions [mm]													
	kW	size			Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1	
4102/7	2.5	100L	P015	88	53	112	378	361	25	15	600	325	160	-23	182	404	370	959	920	
	3.6	112M				115												965		
4103/7	3.6	112M	P015	88	59	121	433	361	25	15	600	325	160	-23	182	459	425	1020	920	
	5.0	132S	P017	103		158					700		200		192			1116		1100
4104/7	3.6	112M	P017	88	65	130	488	361	25	15	700	325	200	-23	192	514	480	1075	1100	
	5.0	132S		103		164												1171		
4105/7	5.0	132S	P385	103	70	172	543	490	30	24	740	440	200	-23	212	569	535	1226	1140	
	6.8	132M				232												1237		
4106/7	6.8	132M	P436	103	76	248	598	540	30	24	840	490	215	-23	212	624	590	1292	1270	
	10.0	160M				278									1379					
4107/7	6.8	132M	P436	103	82	230	653	540	30	24	840	490	215	-23	212	679	645	1347	1270	
	10.0	160M	P487			296									1434			1420		

* Dimensions depend upon the motor brand

¹⁾ A safety margin of 1 m has to be added when using a liquid containing gas.

Dimension chart, pump set drawing and performance curves

CEH 6100/7 (with retaining stage)



Values are valid for water at 1 kg/dm³ and Viscosity at 1 cSt.

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.

Pump size	Motor		Base plate	Coupling BDS	Weight [kg]		Dimensions [mm]													
	kW	size			Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1	
6102/7	6.8	132M	P385	103	105	267	518	490	30	24	740	440	200	-35	260	571	533	1279	1140	
	10.0	160M	P436			307		540			840	490	215					1366	1270	
6103/7	10.0	160M	P487	103	117	331	608	610	35	28	940	550	240	-35	280	661	623	1456	1420	
	13.5	160L		363		1500														
	15.0	180M		384		1593														
6104/7	15.0	180M	P538	118	130	439	698	660	35	28	1060	600	280	-35	280	751	713	1683	1620	
	17.5	180L				461									1738					
	24.0	200L		540		300									1738					
6105/7	15.0	180M	P538	118	142	450	788	660	35	28	1060	600	280	-35	280	841	803	1773	1620	
	17.5	180L				473									1828					
	24.0	200L		485		300									1828					
6106/7	17.5	180L	S389	118	155	391	878	540	40	28	1200	490	300	-35	280	931	893	1863	1800	
	24.0	200L		470		1918														
	30.0	225S	S609	152		620		730				670	310		325			2018		
6107/7	24.0	200L	S389	135	167	482	968	540	40	28	1200	490	300	-35	300	1021	983	2008	1800	
	30.0	225S	532	740		1300		609			350	345	2003							
	36.0	225M	14211	152		630									2080					

* Dimensions depend upon the motor brand

¹) A safety margin of 1 m has to be added when using a liquid containing gas.

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