

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

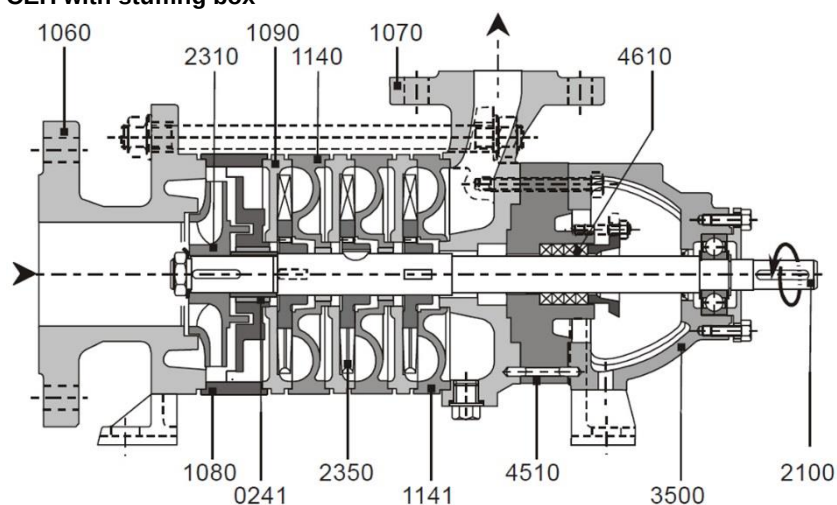
The casing seal can be sealed with a liquid compound or soft Teflon.

Drive

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

Sectional drawing and parts list

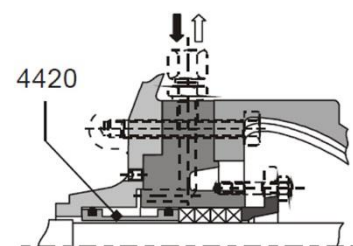
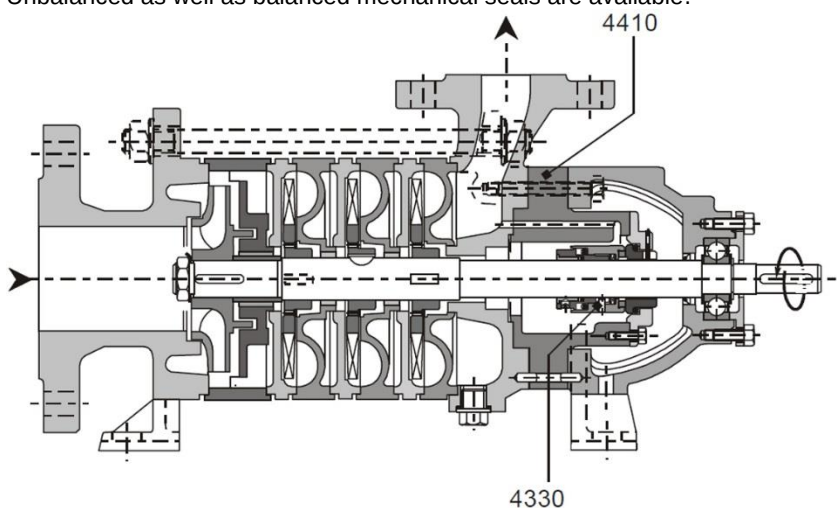
CEH with stuffing box



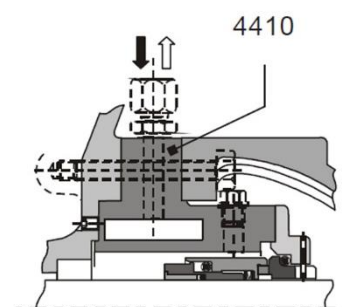
0241	Bearing bush
1060	Suction casing
1070	Discharge casing
1080	Intermediate piece
1081	Retaining stage
1090	Suction intermediate piece
1140	Discharge intermediate piece
1141	Discharge intermediate piece
2100	Shaft
2310	Impeller
2350	Vane wheel impeller
3500	Bearing housing
4330	Mechanical seal
4410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

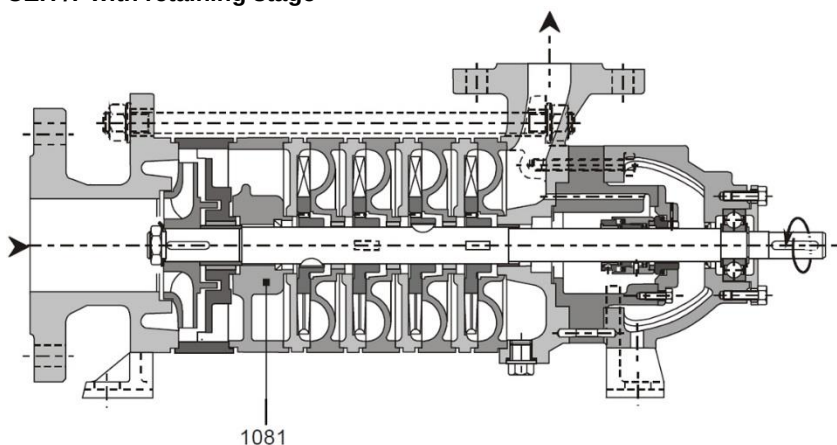


Cooled stuffing box



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

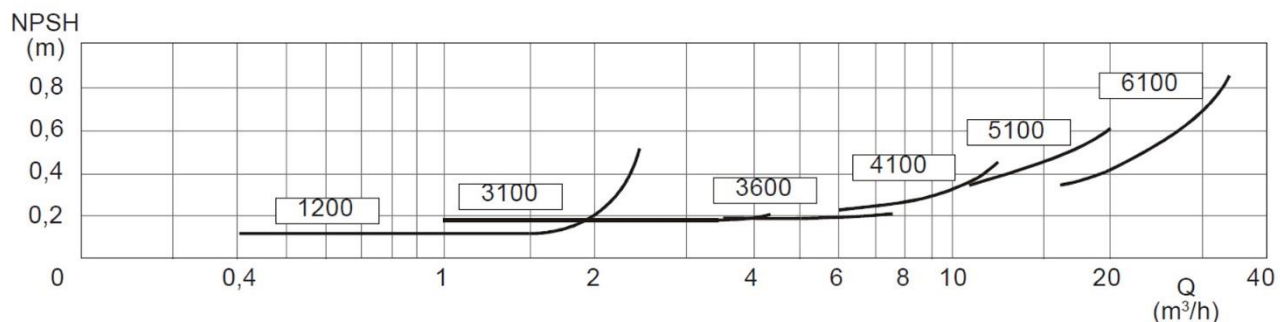
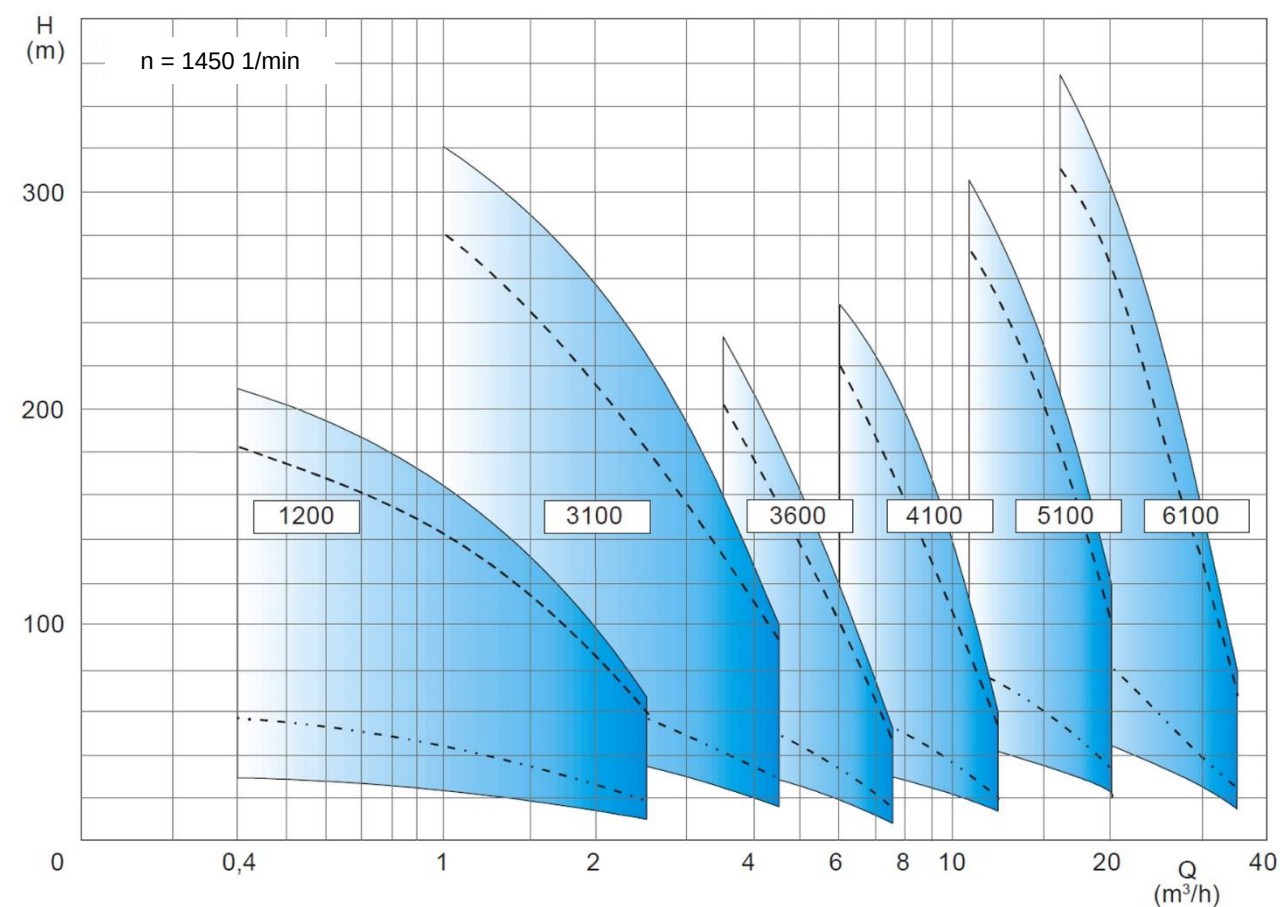
Capacity $\pm 5\%$ - Delivery head $\pm 5\%$ - Power + 10%

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.

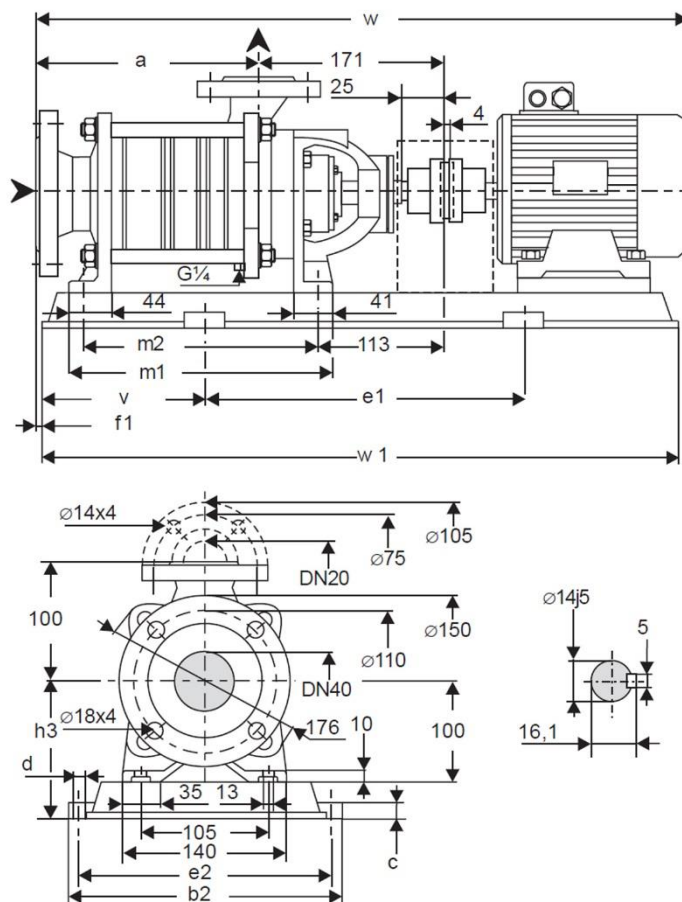
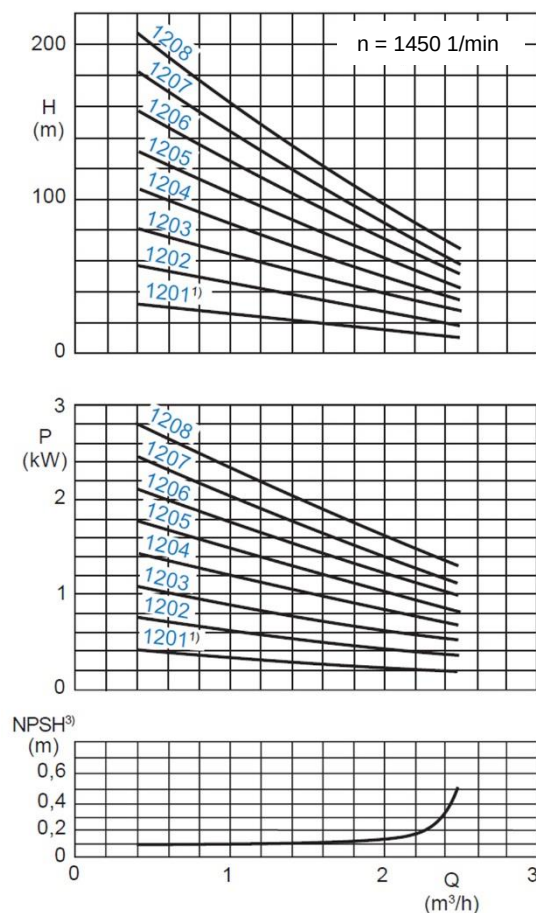
--- = Maximum for CEH /7 (with retaining stage)
 - · - = Minimum for CEH /5 (e.g. LPG handling), CEH/7



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%

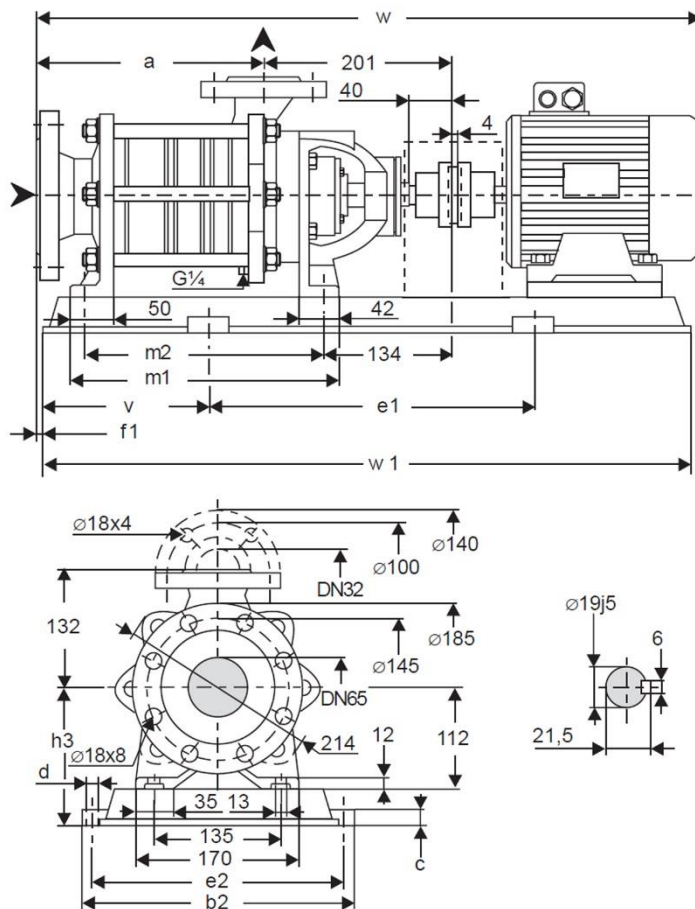
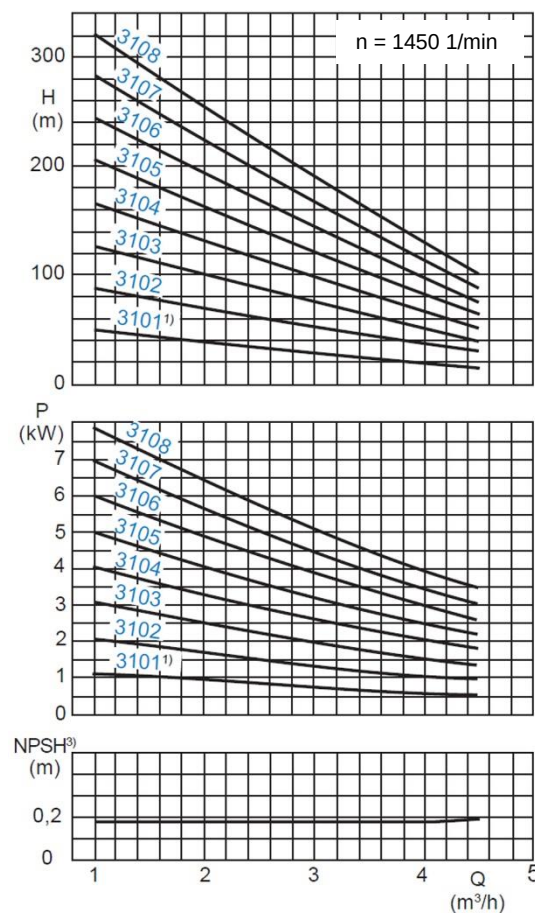
For designs with a mechanical seal or a casing seal of soft Teflon, the tolerance for the delivery head is extended by 2% each.

Pump size	Motor			Base plate	Coupling		Weight [kg] Pump set	Dimensions [mm]															
	kW	kW ²⁾	size		B	BDS ²⁾		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		330			25	19	480		290			125	165	735	730
	1.1	1.0	90S	P241				56		330			25	19	480		290			125	-9	165	306
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			25	19	480		290			125	769	730	
	1.5	1.35	90L					62		330			25	19	480		290			125	769	730	
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			25	19	540		320			140	844	820	
	2.2	2.0	100L	P272				80		88			75	360	25		19			540	320	140	844
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			25	19	540		320			140		878	
	2.2	2.0	100L	88				88		77			360	25	19		540			320	140	878	820
1206	1.5	1.35	90L	P272	68	76	28	72	365	360	25	15	540	320	140	-9	165	408	374	871	820		
	2.2	2.0	100L	P015	80	88		84		361			25	15	600		325			160	150	912	920
	3.0	2.5	100L		85	361		25		15			600	325	160		150			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		80	88		86		361			25	15	600		325			160		150	946
	3.0	2.5	100L	87	361	25		15		600			325	160	150		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		361			25	15	600		325			160	980	920	

* 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%

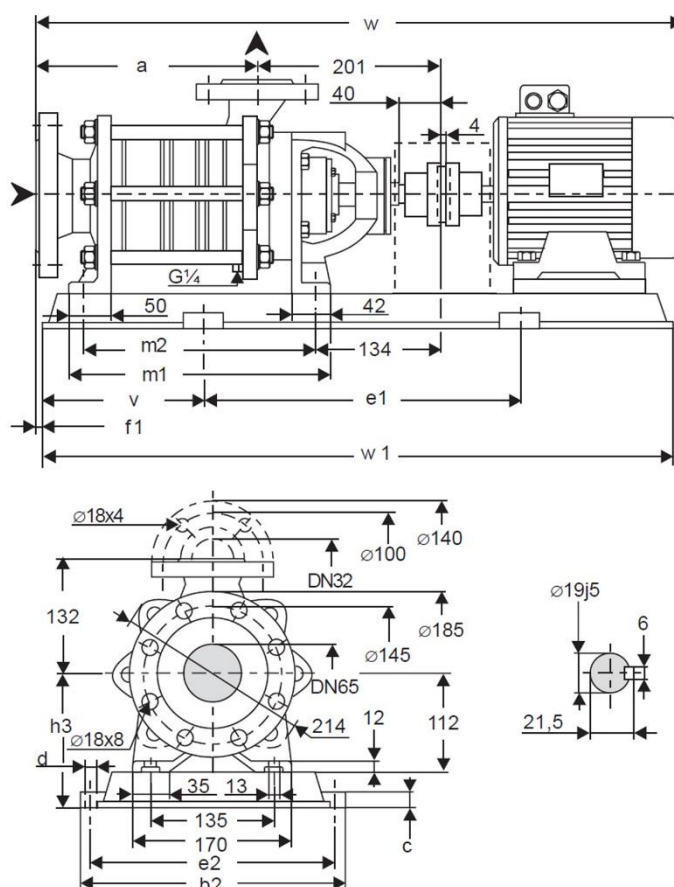
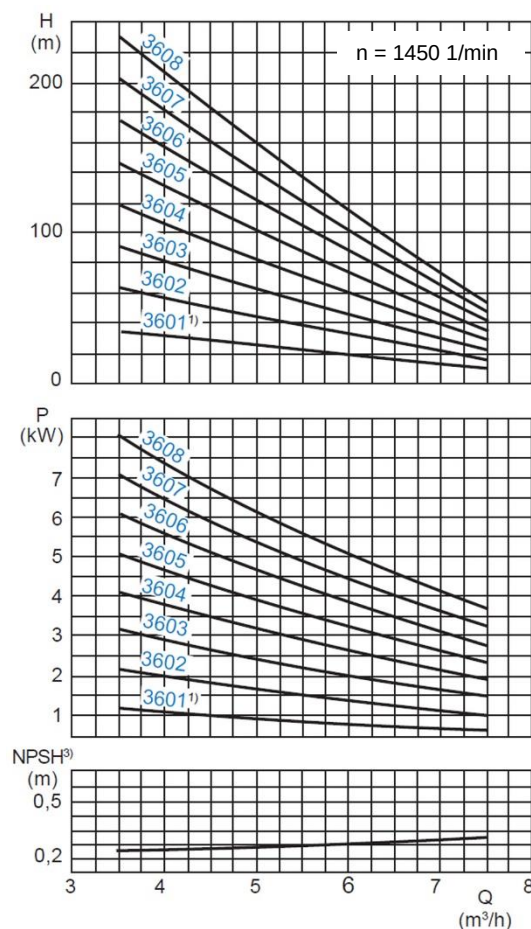
For designs with a mechanical seal or a casing seal of soft Teflon, the tolerance for the delivery head is extended by 2% each.

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					540	320	140					830	820		
	2.2	2.0	100L	P272				80		88			81	360	540					320	140	830	820
3103	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					90														540	320
3104	2.2	2.0	100L	P272	80	88	42	93	333	360	25	19	540	320	140	-13	177	381	347	910	820		
	3.0	2.5	100L					94												361	15	600	325
	4.0	3.6	112M	P015				117		600			325	160	162					931	920		
3105	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												600	325	160	162
	5.5	5.0	132S	P017				95		103			158	700	200					192	1047	1100	
3106	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					600					160		162		1087			1100			
	7.5	6.8	132M	P017				95		103			171	700	200		192			1113	1100		
3107	4.0	3.6	112M	P017	80	88	52	143	453	361	25	15	700	325	200	-13	172	501	467	1051	1100		
	5.5	5.0	132S		95	103		165									700			200		192	1127
	7.5	6.8	132M			205		700		200			192	1153									
3108	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					208												540		30	24
	11.0	10.0	160M	P436				253		540			30	24	840					490		215	240

* 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%

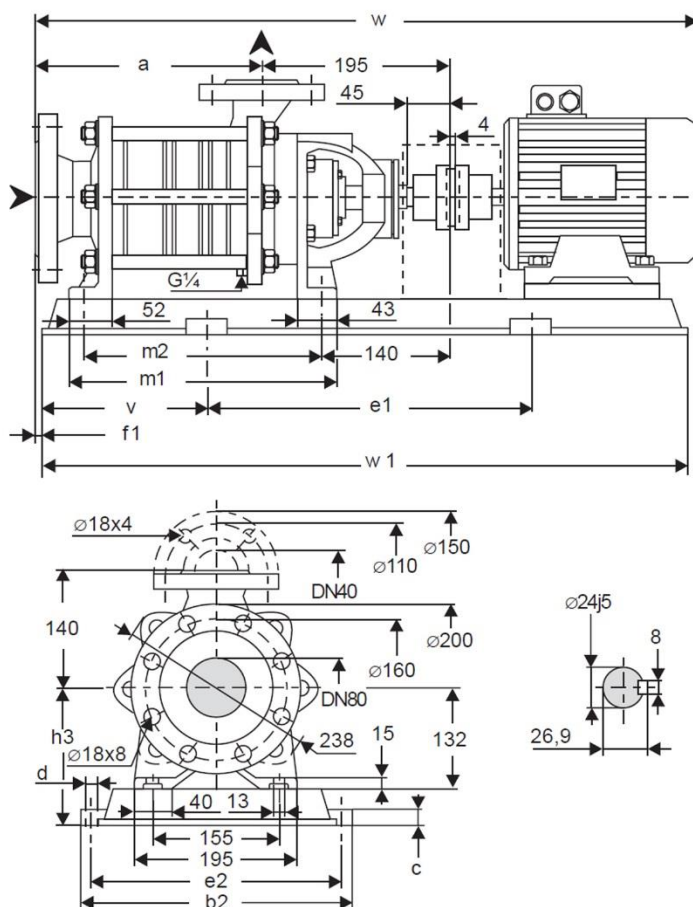
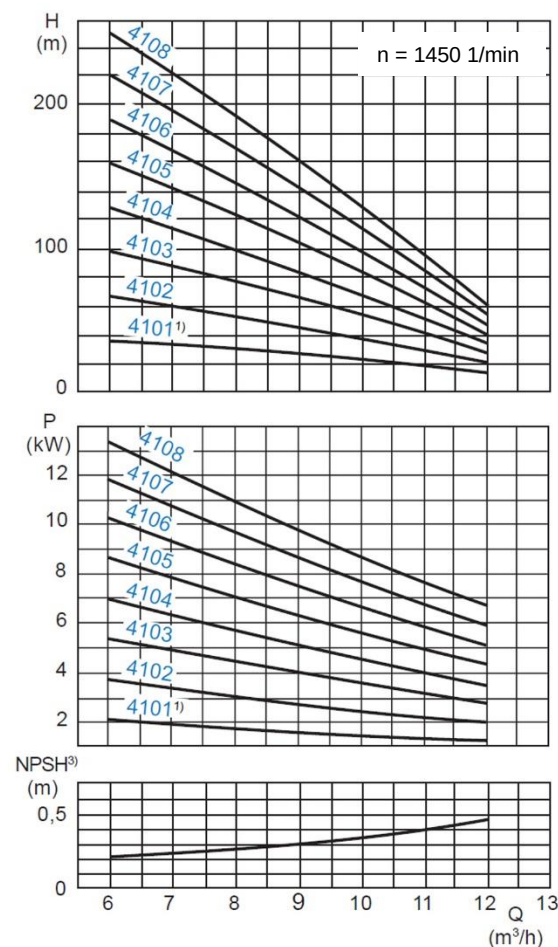
For designs with a mechanical seal or a casing seal of soft Teflon, the tolerance for the delivery head is extended by 2% each.

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)	80	P008	68	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			119		891			
	4.0	3.6	112M																						
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	1047	1100
	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



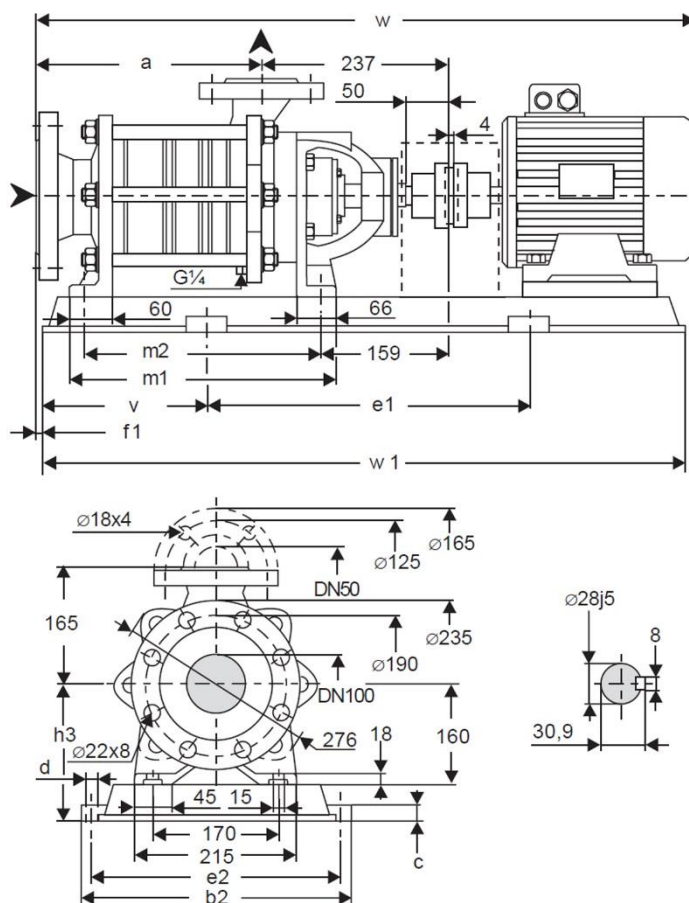
Values are valid for water at 1 kg/dm³ and Viscosity at 1 cSt.

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

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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
4101	1.5	1)	90L	P241	68	1)	41	81	268	330	25	19	480	290	125	-23	197	294	260	798	730
	2.2		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													
	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		490	30	24	740	440		240		1274	1140			
	4106	7.5	6.8	132M	P385	95	103	70	196	543	490	30	24	740	440	200	-23	212	569	535	1237
11.0		10.0	160M	P436	269				540					840	490	215		240			1329
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			610	35	28	940	550	240		260		1446	1420		
	4108	11.0	10.0	160M	P487	95	103	82	281	653	610	35	28	940	550	240	-23	260	679	645	1439
15.0		13.5	160L	110		118	355		1501												

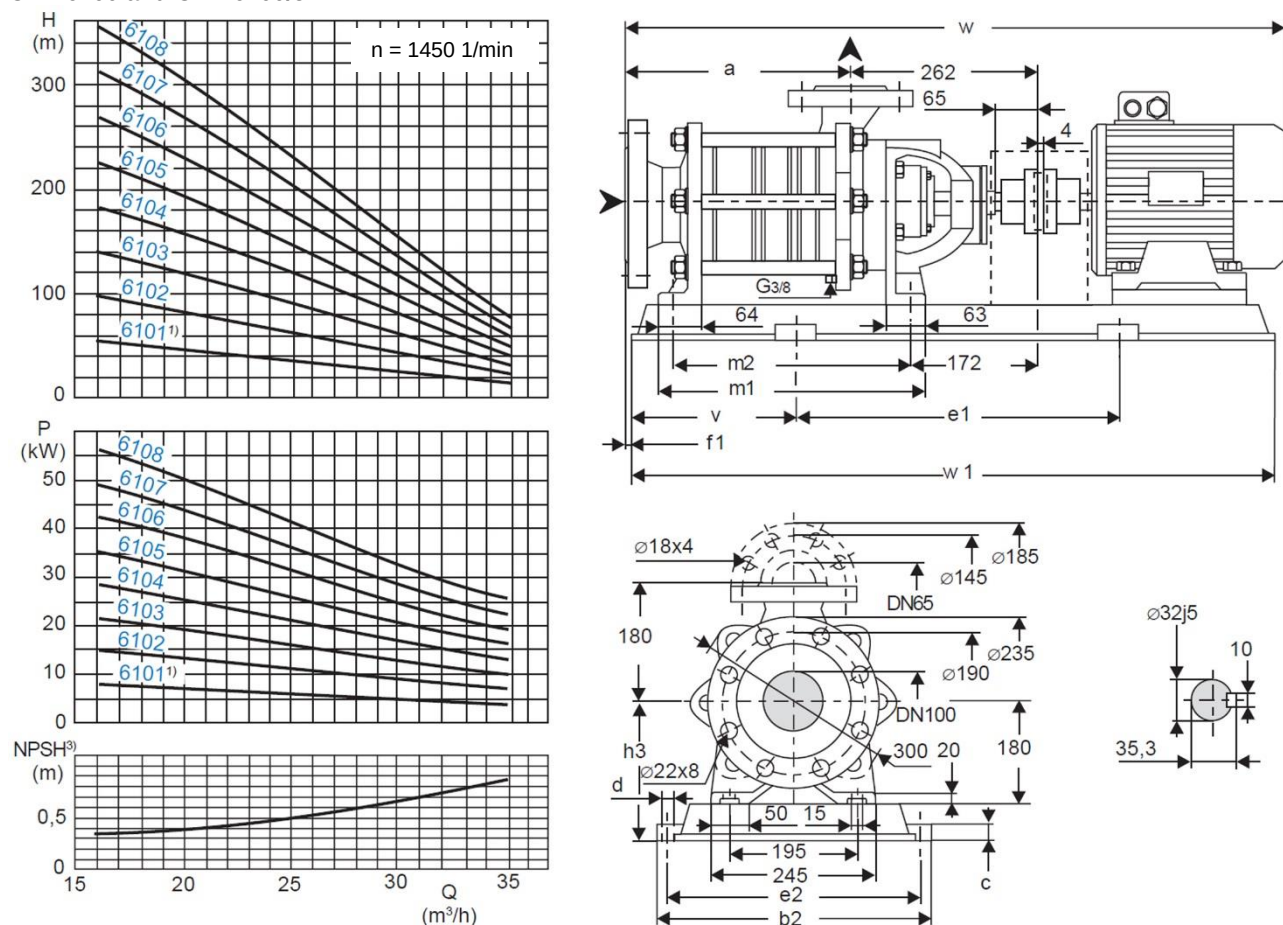
* Dimensions depend upon the motor brand. ¹⁾ Not for design CEH /5, ²⁾ for EExe II T3 motors, ³⁾ A safety margin of 1 m has to be added when using a liquid containing gas. The weight for stainless steel will be approximately 6% higher.



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
5101	3.0	1)	100L	P272	80	1)	60	123	305	360	25	19	540	320	140	-28	225	353	315	918	820
	4.0		112M	P015				162		600		325	160	210	939		921				
	5.5		132S					170						1015							
5102	5.5	5.0	132S	P017	95	103	70	183	380	361	25	15	700	325	200	-28	220	428	390	1090	1100
	7.5	6.8	132M					193		490	30	24	740	440	240		1116			1140	
	11.0	10.0	160M					P385		269							1208			1140	
5103	7.5	6.8	132M	P017	95	103	80	196	455	361	25	15	700	325	200	-28	220	503	465	1191	1100
	11.0	10.0	160M	P385				279		490	30	24	740	440			240			1283	1140
	15.0	13.5	160L	P436				110		118	353	540		840			490			215	
5104	11.0	10.0	160M	P436	95	103	90	289	530	540	30	24	840	490	215	-28	240	578	540	1358	1270
	15.0	13.5	160L		110	118		363						1420							
5105	15.0	13.5	160L	P487	110	118	101	374	605	610	35	28	940	550	240	-28	260	653	615	1495	1420
	18.5	15.0	180M		395						280	1557									
	22.0	17.5	180L		125	135		415													
5106	15.0	13.5	160L	P487	110	118	111	384	680	610	35	28	940	550	240	-28	260	728	690	1570	1620
	18.5	15.0	180M					423							280		1632				
	22.0	17.0	180L	P538	125	135		425		660			1060	600	280		300			1690	
	30.0	24.0	200L					506													
5107	18.5	15.0	180M	P538	110	118	121	415	755	660	35	28	1060	600	280	-28	280	803	765	1707	1620
	22.0	17.5	180L		125	135		435					300	1765							
	30.0	24.0	200L					516													
5108	22.0	17.5	180L	P539	125	135	132	446	830	660	35	28	1060	600	280	-28	280	878	840	1782	1620
	30.0	24.0	200L					527		540	40	1200	490	300	300		1840			1800	

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%

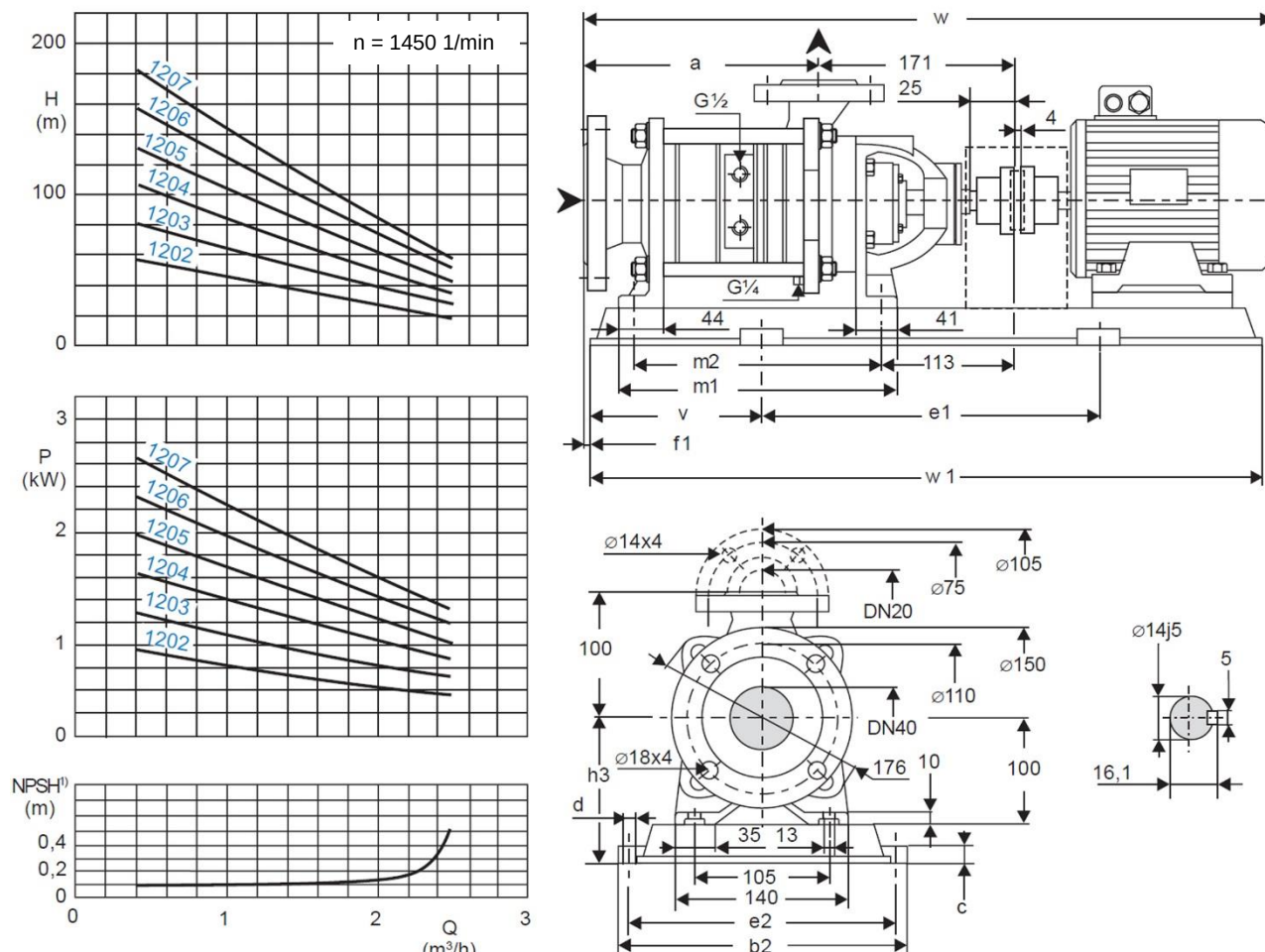
For designs with a mechanical seal or a casing seal of soft Teflon, the tolerance for the delivery head is extended by 2% each.

Pump size	Motor			Base plate	Coupling		Weight [kg]		Dimensions [mm]															
	kW	Motor 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	S609	140	152		606					730	40	28		1200			670	310	325	1888	1820
	45.0	36.0	225M					670																
6107	30.0	24.0	200L	S389	125	135	155	550	878	540	40	28	1200	490	300	-35	300	931	893	1913	1800			
	37.0	30.0	225S	S609	140	152		619						730	670		310			325	1978	1820		
	45.0	36.0	225M					683																
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									2080			2125	2100			
	55.0	44.0	250M					14212														160	-	701

* 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 $\pm 5\%$ - Delivery head $\pm 5\%$ - Power $\pm 10\%$

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

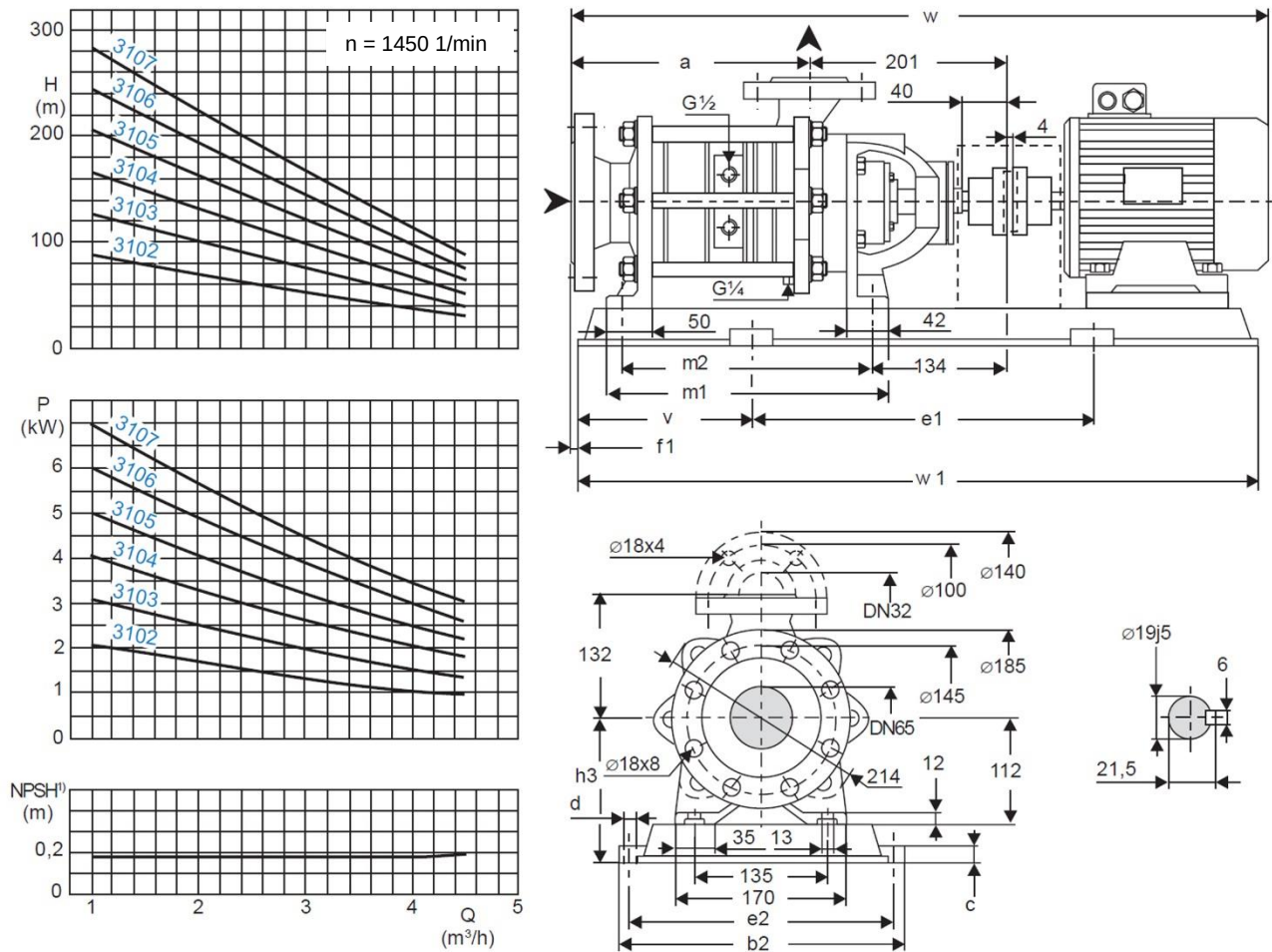
Pump size	Motor		Base plate	Coupling BDS	Weight [kg]		Dimensions [mm]												
	kW	size			Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
1202/7	0.55	80	P210	76	22	52	263	300	25	19	420	260	115	-9	165	306	272	709	650
	0.75	80				53													
1203/7	0.75	80	P241	76	24	54	297	330	25	19	480	290	125	-9	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										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.

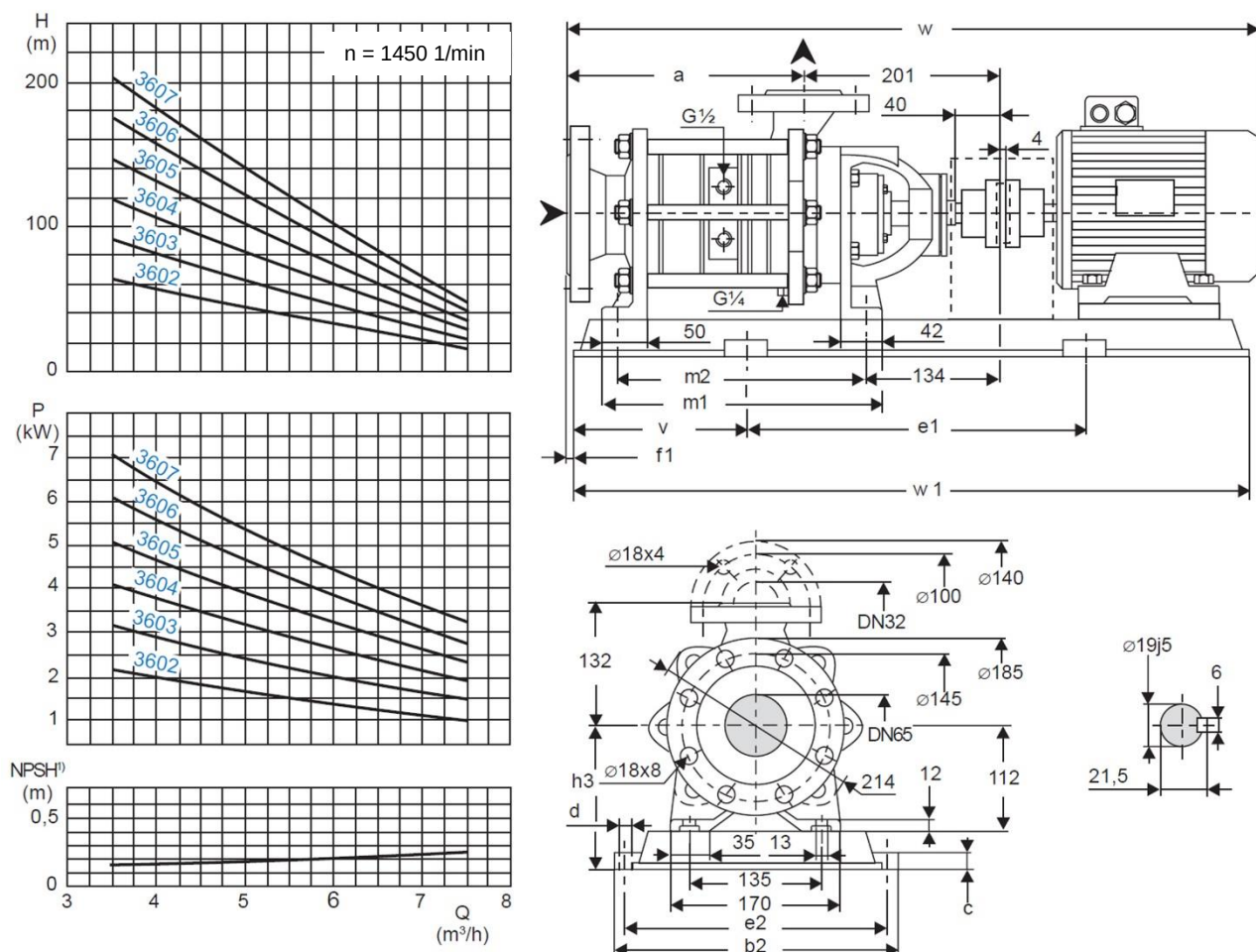
Pump size	Motor		Base plate	Coupling BDS	Weight [kg]		Dimensions [mm]												
	kW	size			Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1
3102/7	1.5	90L	P272	76	38	87	293	360	25	19	540	320	140	-13	177	341	307	822	820
	2.0	100L		88		100												880	
3103/7	2.0	100L	P272	88	42	104	333	360	25	19	540	320	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/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.

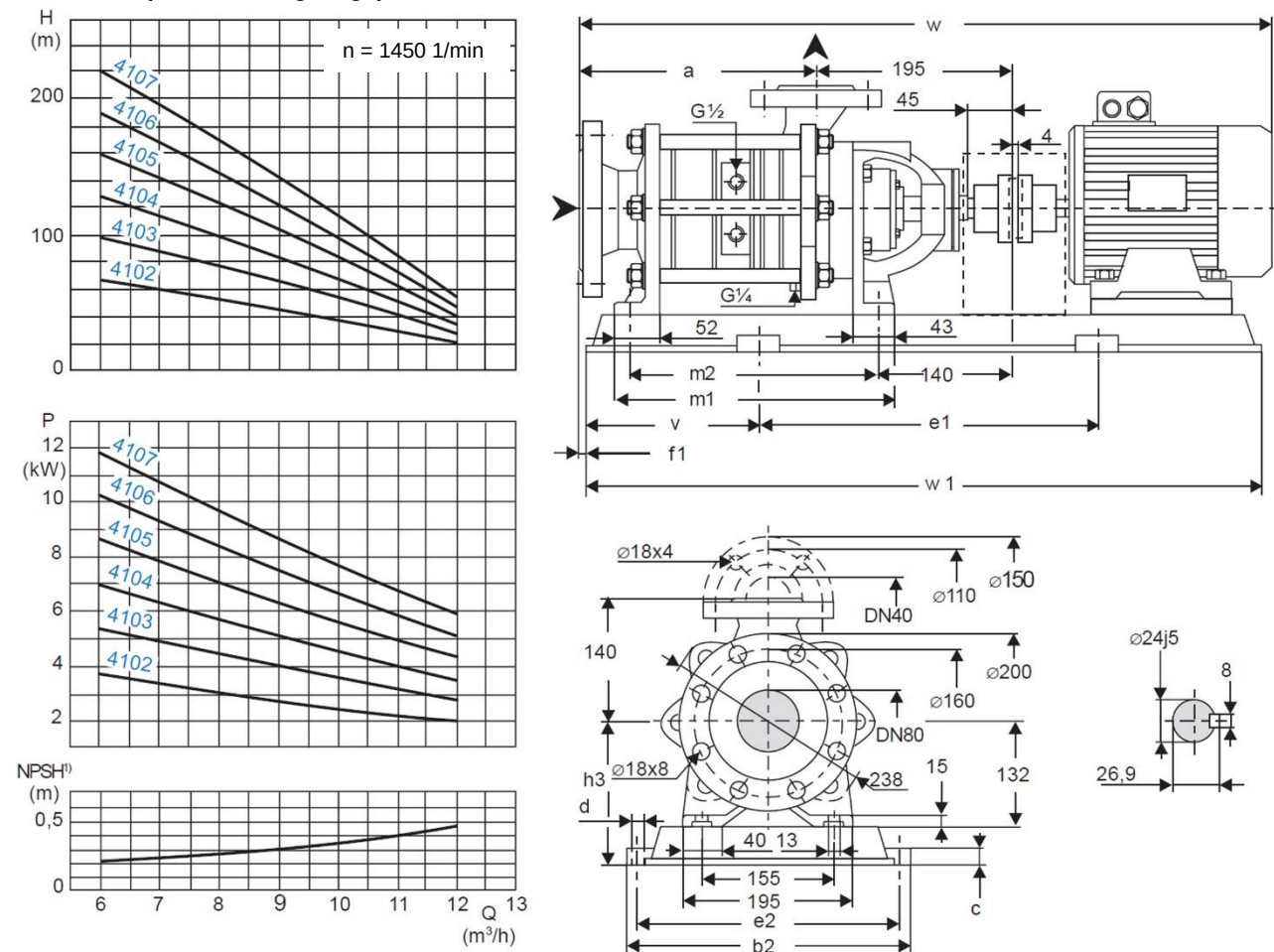
Pump size	Motor		Base plate	Coupling BDS	Weight [kg]		Dimensions [mm]														
	kW	size			Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1		
3602/7	1.5	90L	P272	76	38	87	293	360	25	19	540	320	140	-13	177	341	307	822	820		
	2.0	100L		88		100												880			
3603/7	2.0	100L	P272	88	42	104	333	360	25	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.

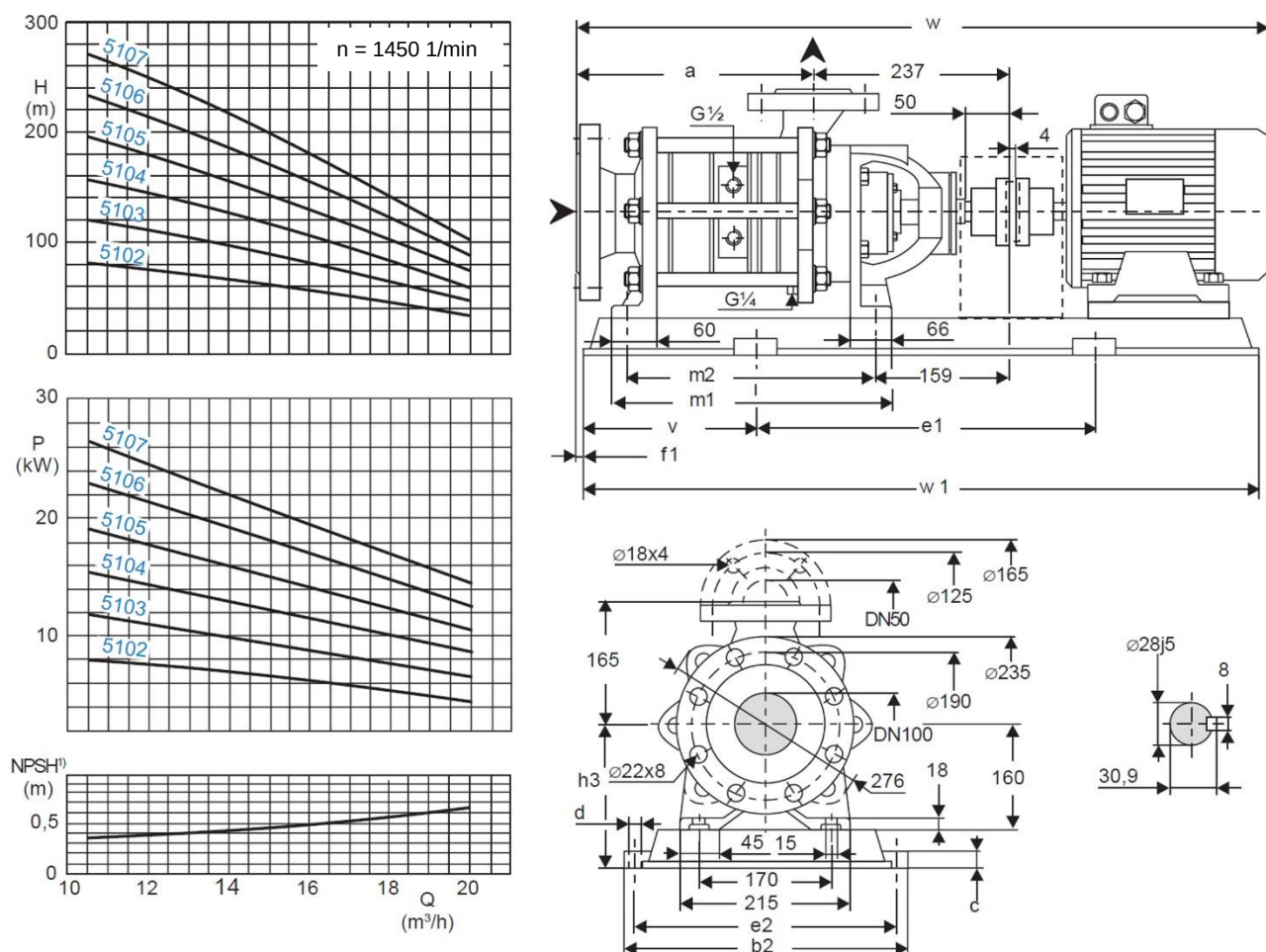
Pump size	Motor		Base plate	Coupling BDS	Weight [kg]		Dimensions [mm]													
	kW	size			Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1	
4102/7	2.5	100L	P015	88	53	112	378	361	25	15	600	325	160	-23	182	404	370	959	920	
	3.6	112M				115												965		
4103/7	3.6	112M	P015	88	59	121	433	361	25	15	600	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									240			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					940		550		240			260		1434

* 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 5100/7 (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.

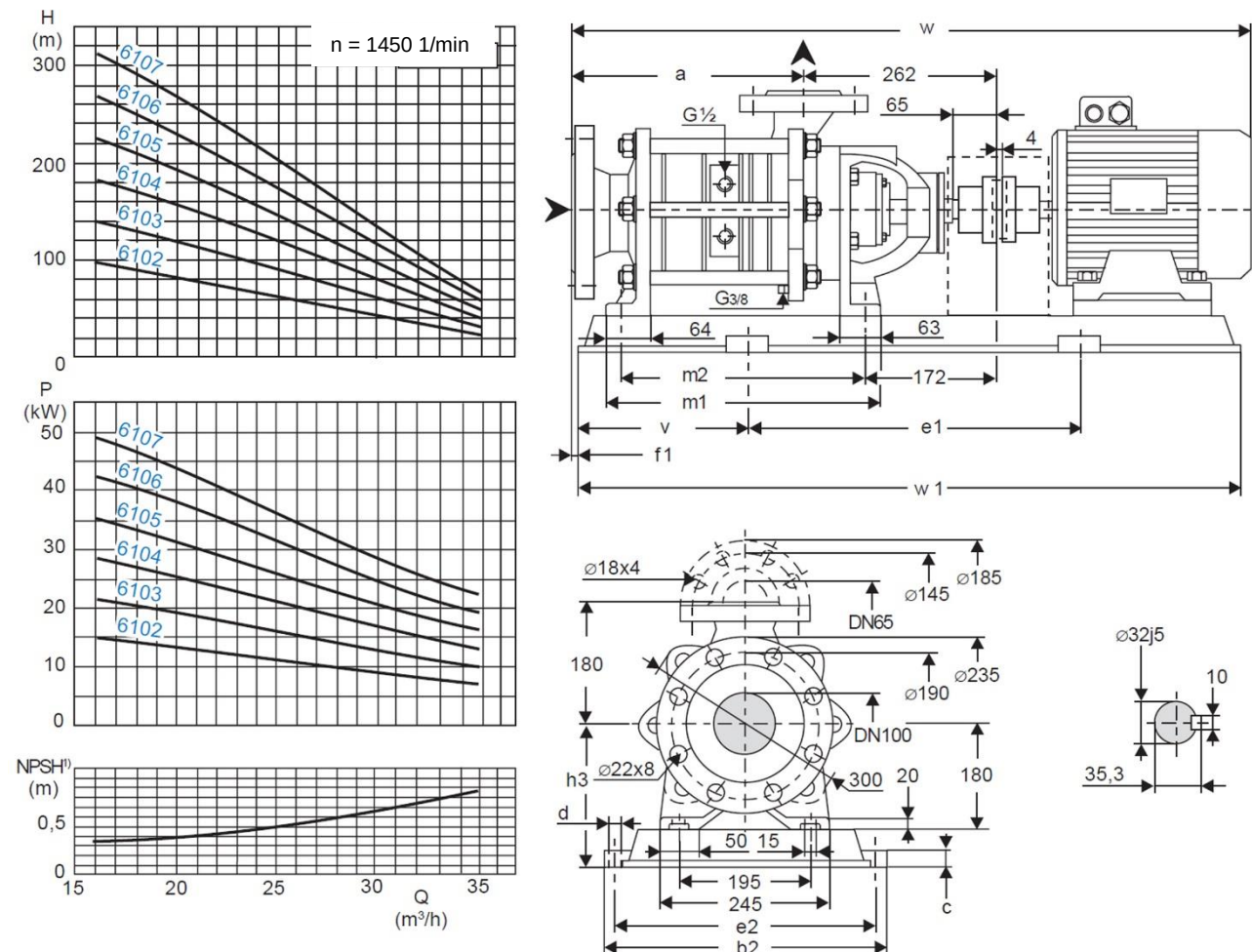
Pump size	Motor		Base plate	Coupling BDS	Weight [kg]		Dimensions [mm]														
	kW	size			Pump	Set	a	b2	c	d	e1	e2	v	f1	h3	m1	m2	w*	w1		
5102/7	5.0	132S	P017	103	80	180	455	361	25	15	700	325	200	-28	220	503	465	1180	1100		
	6.8	132M				232												1191			
5103/7	6.8	132M	P385	103	90	252	530	490	30	24	740	440	200	-28	240	578	540	1266	1140		
	10.0	160M	P436			292												1353		1270	
5104/7	10.0	160M	P487	103	101	325	605	610	35	28	940	550	240	-28	260	653	615	1428	1420		
	13.5	160L				347												1472			
5105/7	10.0	160M	P487	103	111	335	680	610	35	28	940	550	240	-28	260	728	690	1503	1420		
	13.5	160L		357		1547															
	15.0	180M	P538	118		395												1640		1620	
5106/7	13.5	160L	P538	118	121	408	755	660	35	28	1060	600	280	-28	260	803	765	1622	1620		
	15.0	180M				429									1715						
5107/7	15.0	180M	P538	118	132	440	830	660	35	28	1060	600	280	-28	280	878	840	1790	1620		
	17.5	180L				463															

* 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/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	
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									300			1738		
	24.0	200L				540														
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									300			1828		
	24.0	200L				485														
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		300									1918					
	30.0	225S	S609	152		620		730				670	310		325			2018		1820
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			2000		

* 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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