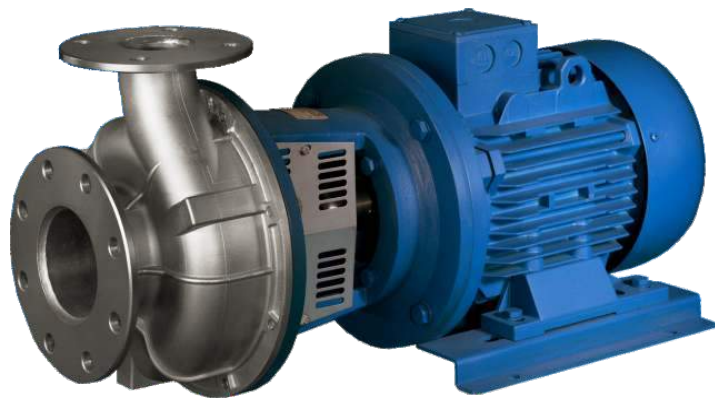


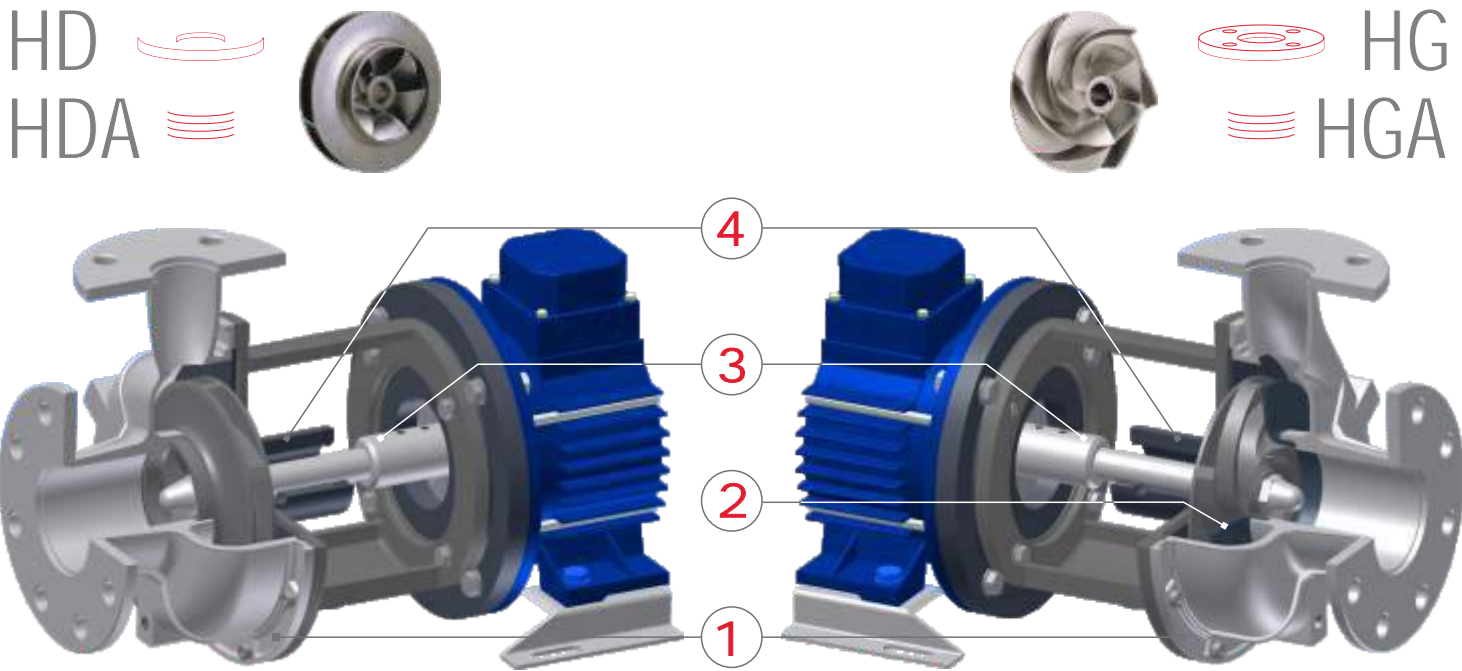
BEDU
≡ POMPEN ≡


CLOSED and OPEN IMPELLER HD - HG



made for your process

CLOSED and OPEN IMPELLER



 HD-HDA and HG-HGA pump series are suitable for chemical, food industries, basic pharmaceutical, textile, water treatment plants etc... and they have high efficiency and reliability. Thanks to their simple construction and their components great modularity, they ensure limited spare parts stock and low running costs. The execution with **closed impeller (HD)** is suitable for conveying either clean liquids or liquids containing a small percentage of solids in suspension, while the **open impeller (HG)** type is suitable for pumping liquids with suspended solids (not filamentous), also viscous, with gas or air. The pumps with flanged connections have same ports interaxis according to EN 22858, so they are interchangeable with the RD and RG type (chemical standard). The execution with food connections (DIN 11851 standard) is also available with shrouded motor. The seal system is so complete that these pumps are often used for difficult applications. The maximum **working pressure** is 8 BAR according to the pump size. Standard material is AISI 316. All pump sizes are equipped with **standard electric motors**.

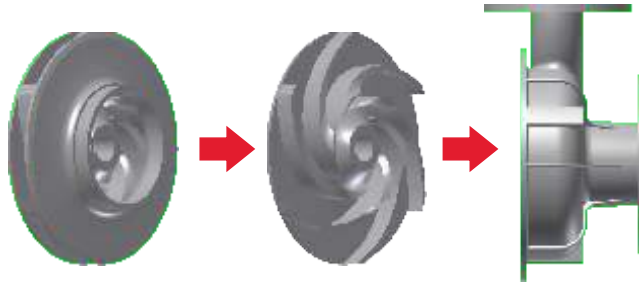
- **USE:** closed impeller for clean liquids and open impeller for liquids containing not abrasive solids, containing dissolved gas and working in critical suction conditions.
- **EFFICIENCY:**
 - ⇒ Lost wax process casings and impellers for high efficiency.
 - ⇒ Open impellers with very high efficiency, only a bit lower than closed impellers.
- **VERSATILITY:** two impeller types in the same casing size and 8 different seal seat arrangement allow these pumps to be used for any plant needs.
- **MANTENANCE:** removable wearing plate and standardized B3B5 electric motors to simplify maintenance.
- **MATERIALS:**
 - ⇒ AISI 316 casings and impellers. Shafts and seal seats in AISI 316L.
- **CONNECTIONS:**
 - ⇒ 1) Flanged type interchangeable with chemical norm pumps.
 - ⇒ 2) Food connections DIN 11851 or others on demand.



FLANGED or FOOD CONNECTIONS

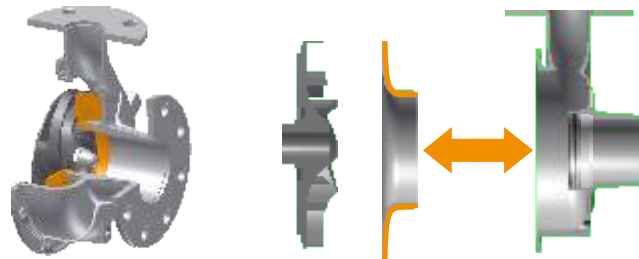


1- CLOSED and OPEN IMPELLER



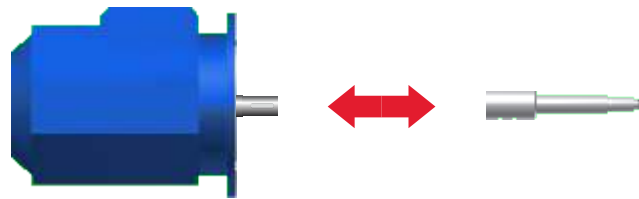
UK ONLY ONE CASING EACH SIZE. It can be used both for closed impeller (with wearing ring) and open impeller (with replaceable wearing plate): just with a few changes the pump can be adapted to new plant and process requirements. Pump casings are made by investment casting and they are electrochemically polished.

2- replaceable WEARING PLATE



UK WEAR PLATE ALSO ON CLOSE-COUPLED PUMPS: Considering that the pump casing is the most expensive part in a close coupled centrifugal pump, the possibility to replace the wearing plate allows to reduce considerably maintenance and repairing costs.

3- STANDARD ELECTRIC MOTOR

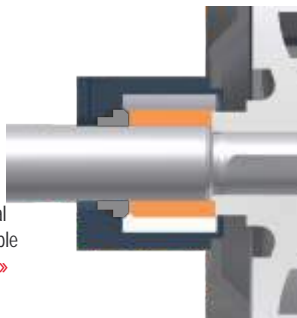


UK The STANDARD MOTORS mounted on HD and HG pumps have B3B5 shape (flange / feet execution) which are easily available on the market. The shaft is fixed on the motor shaft and it is replaceable in case of wearing.

4- SEAL SYSTEMS

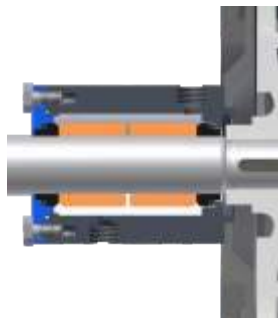
Standard / E single seal

Self lubricated single mechanical seal PLAN 02. Also available for PLAN 11-32 («E» exec.)



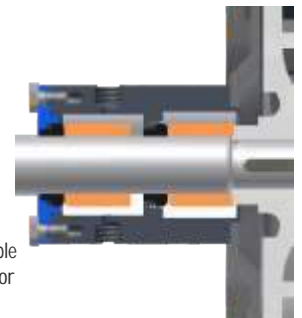
C double back to back mechanical seal

UK double back to back seal. PLAN 53 - PLAN 54



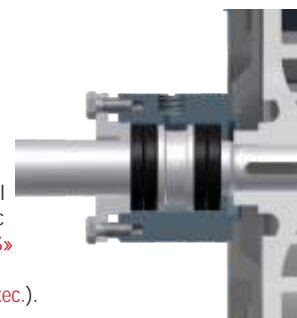
L double tandem mechanical seal

UK double tandem mechanical seal. PLAN 52. Also available washing connection for the pump side seal



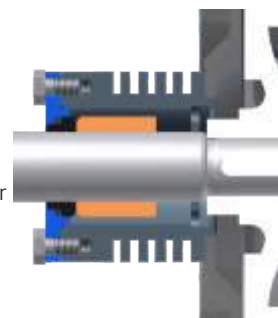
S / B gland packing

gland packing seal with barrier hydraulic ring and flushing («S» exec.). Also available without ring («B» exec.).



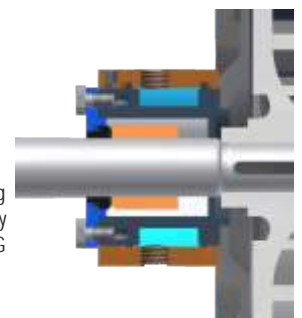
R air cooled chamber

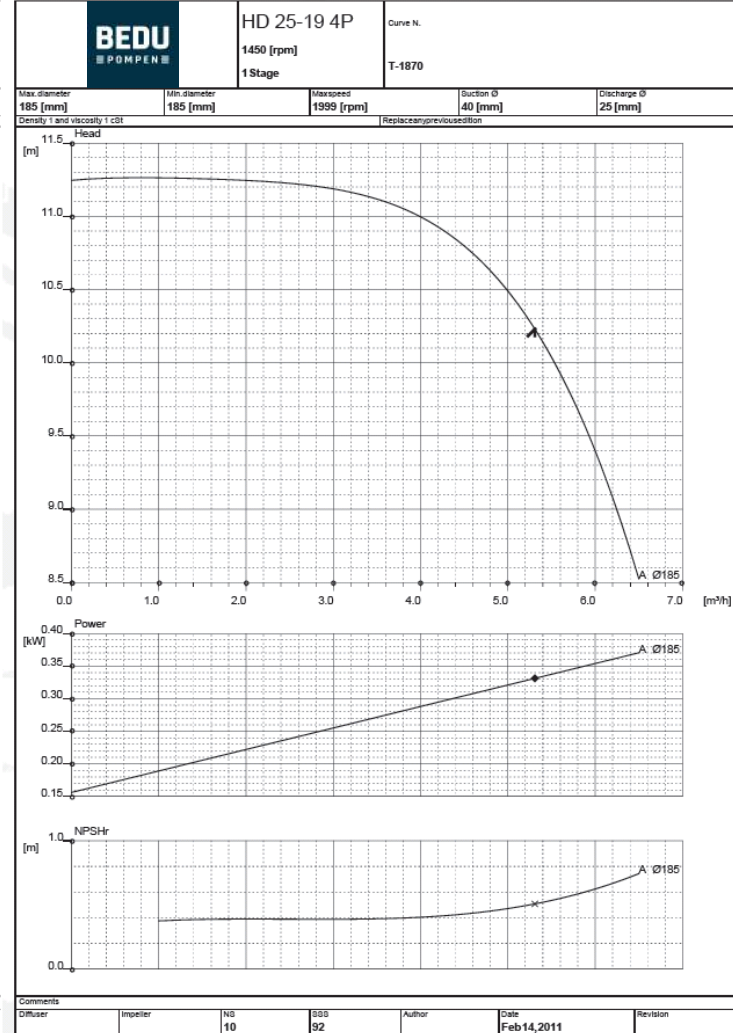
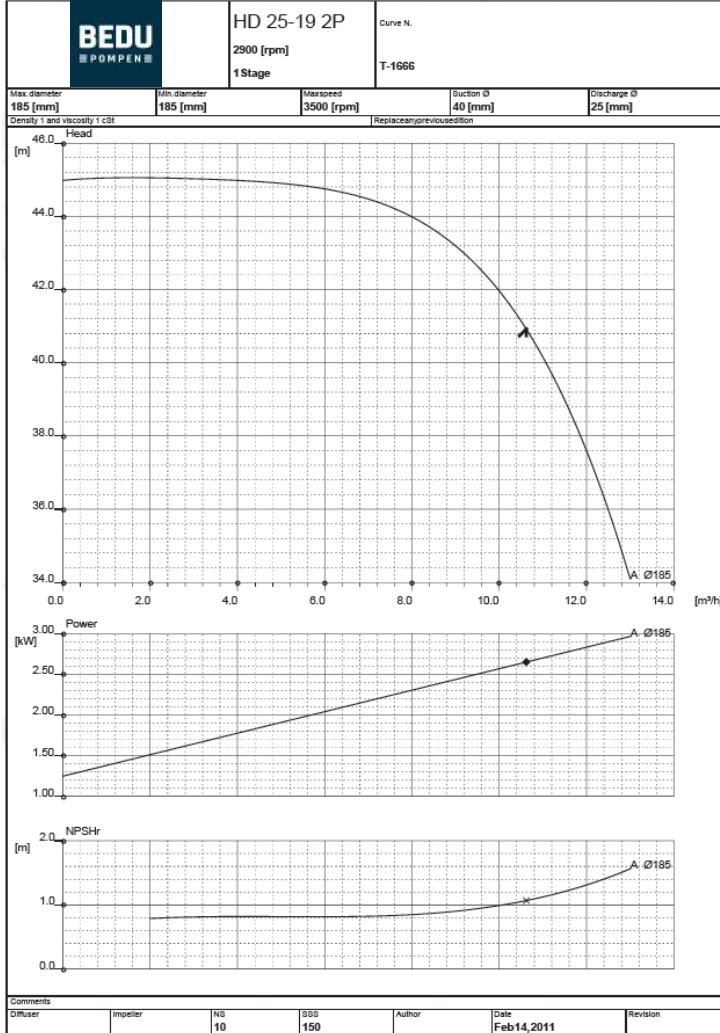
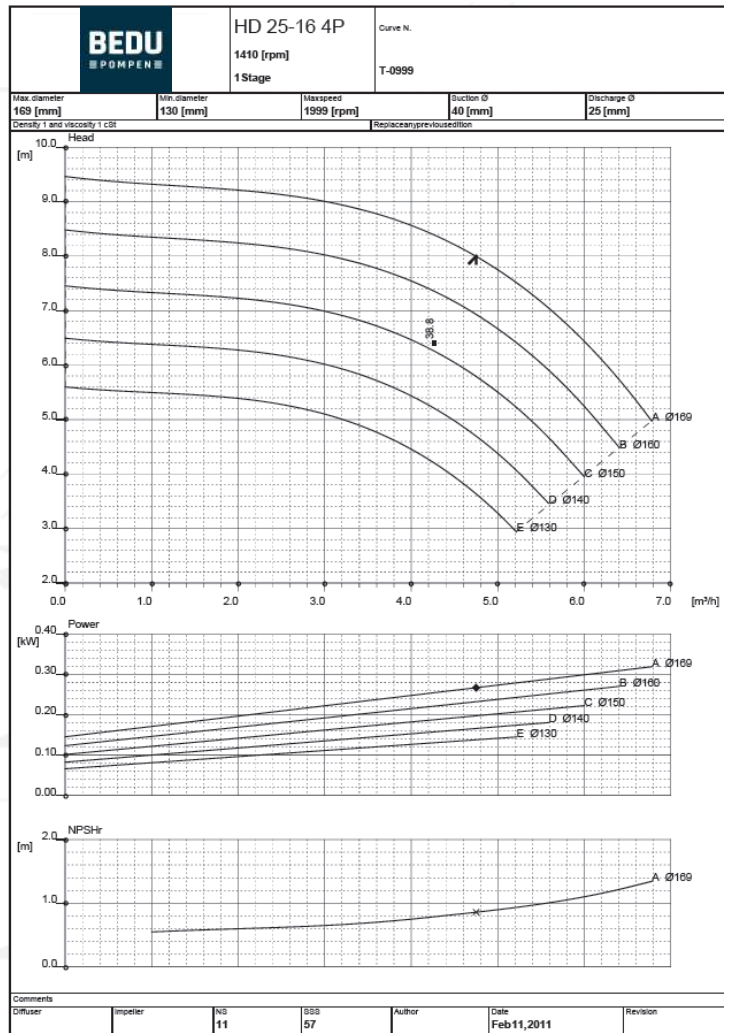
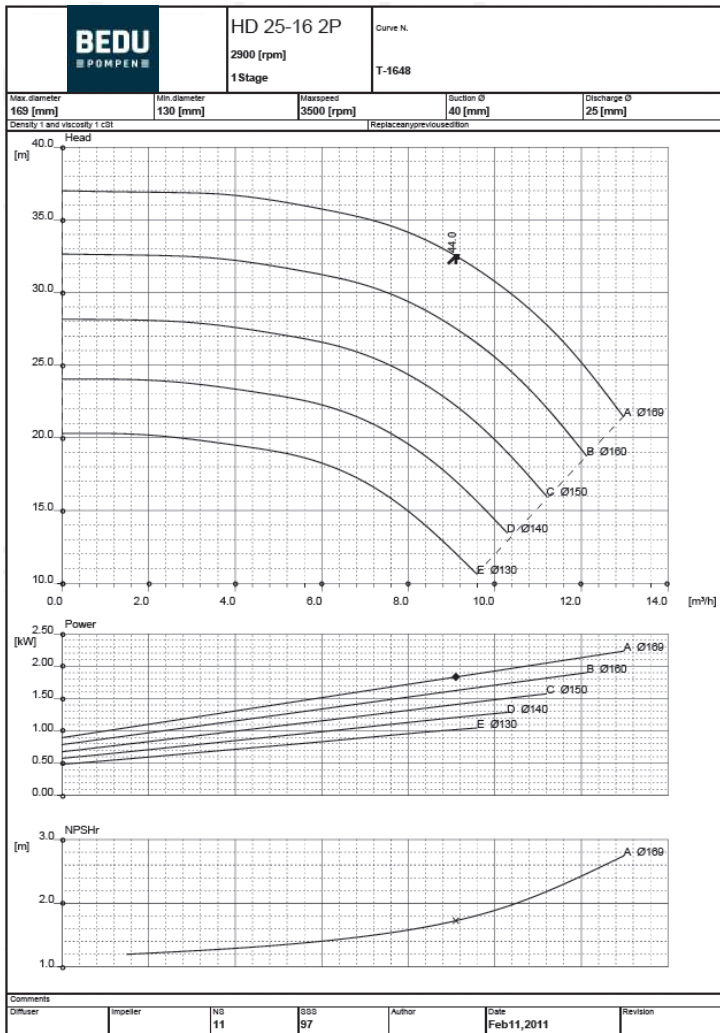
UK Air cooled chamber

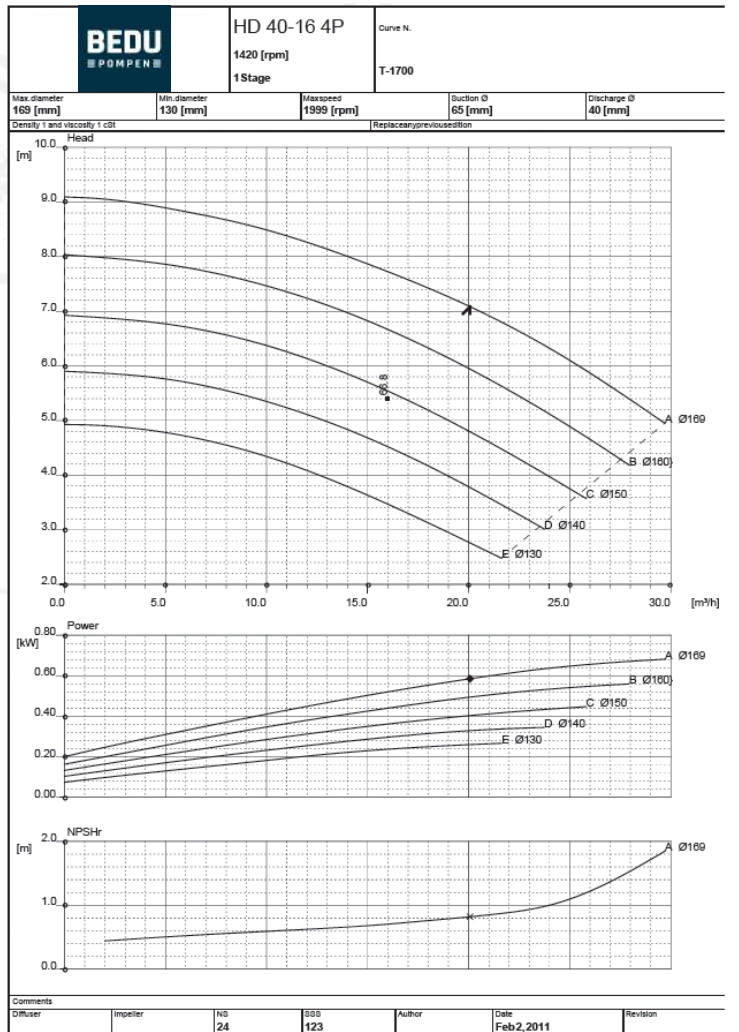
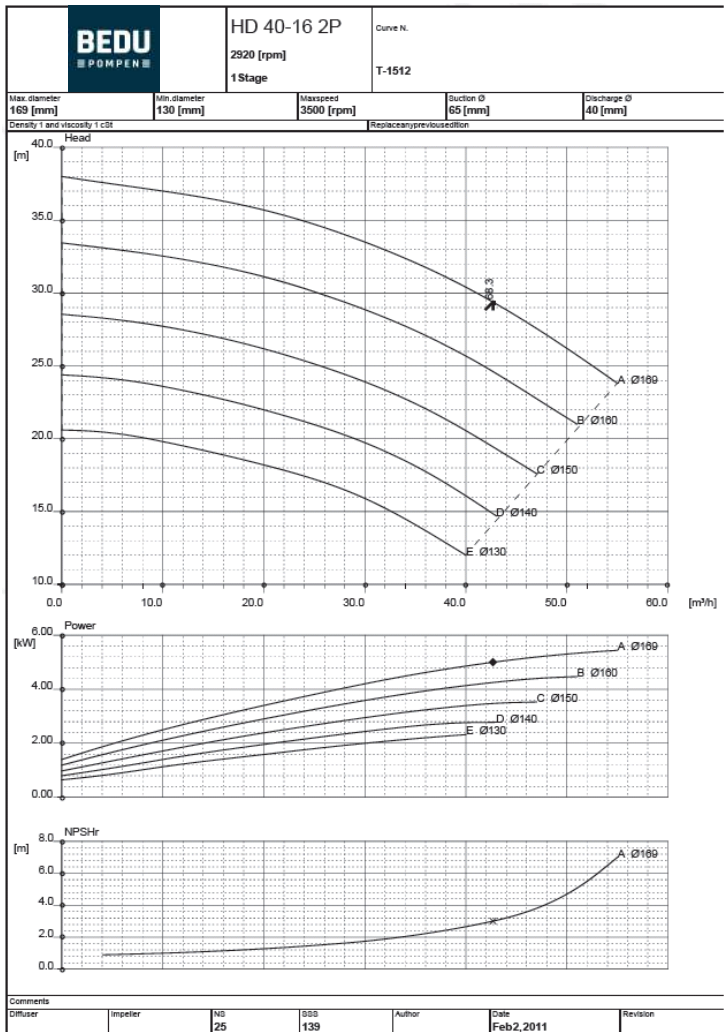
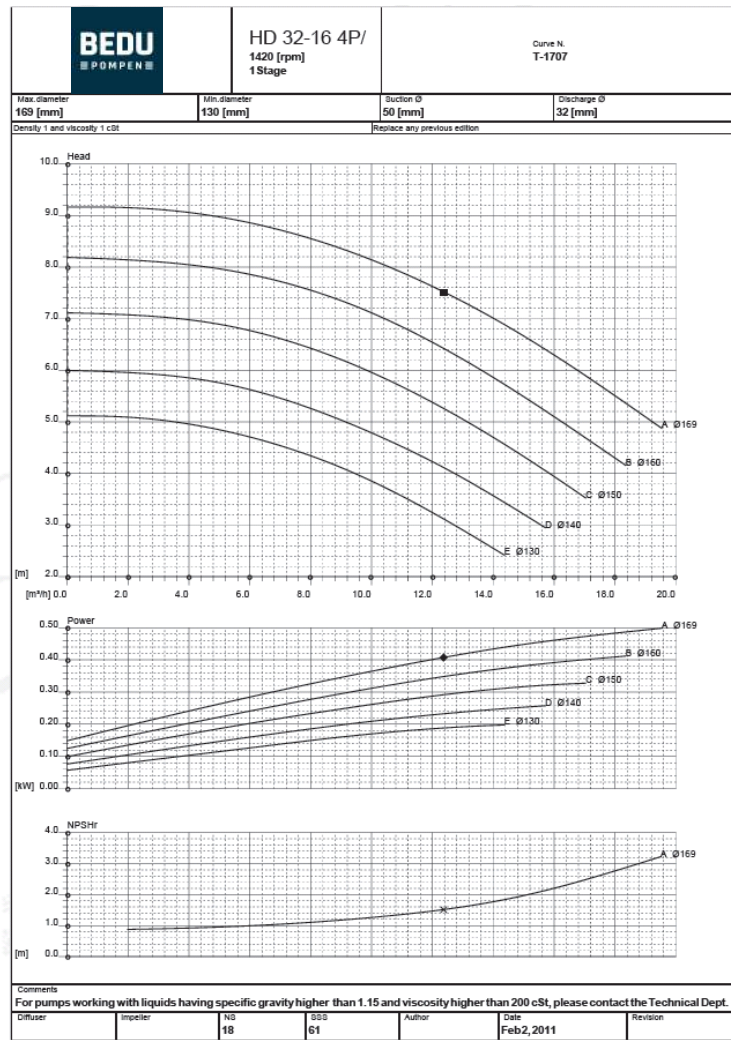
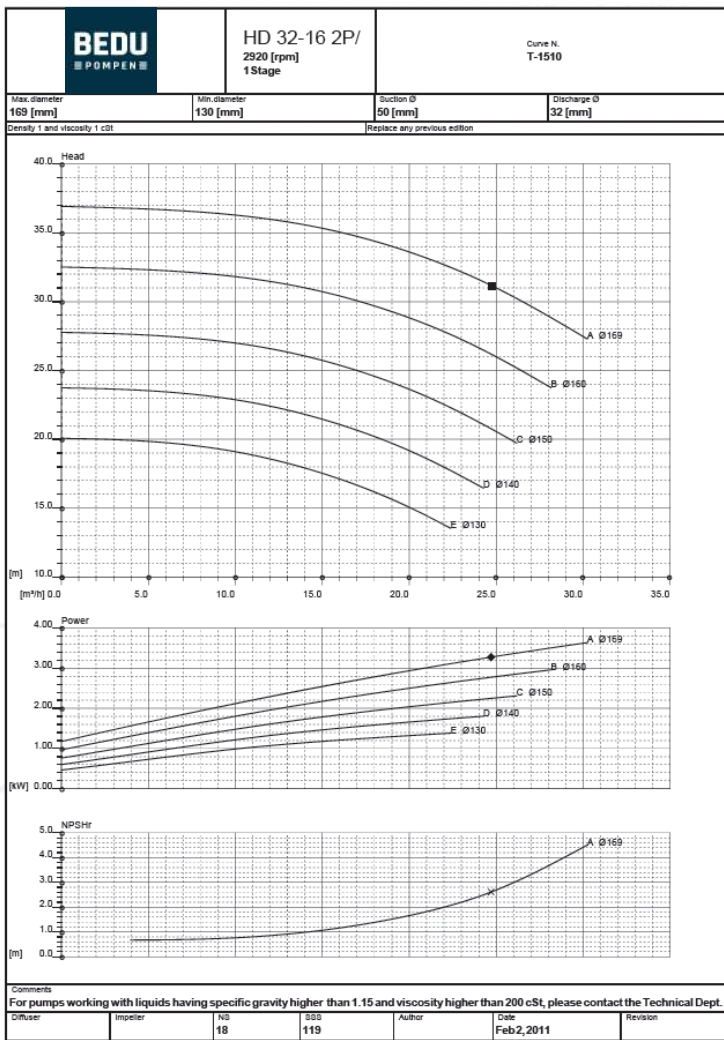


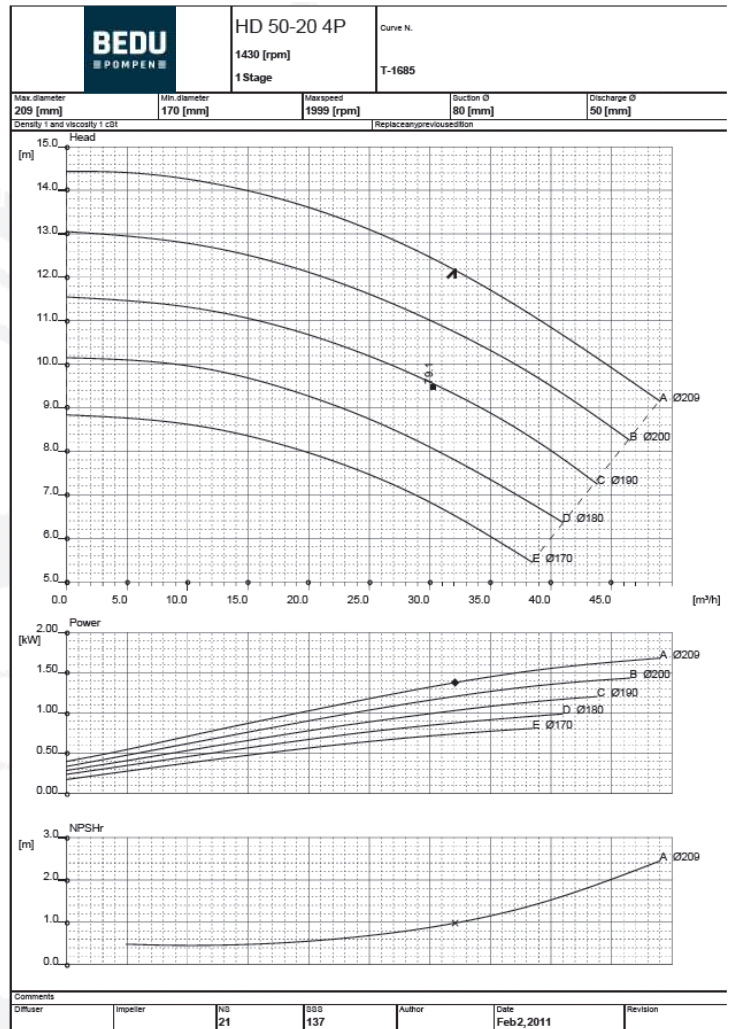
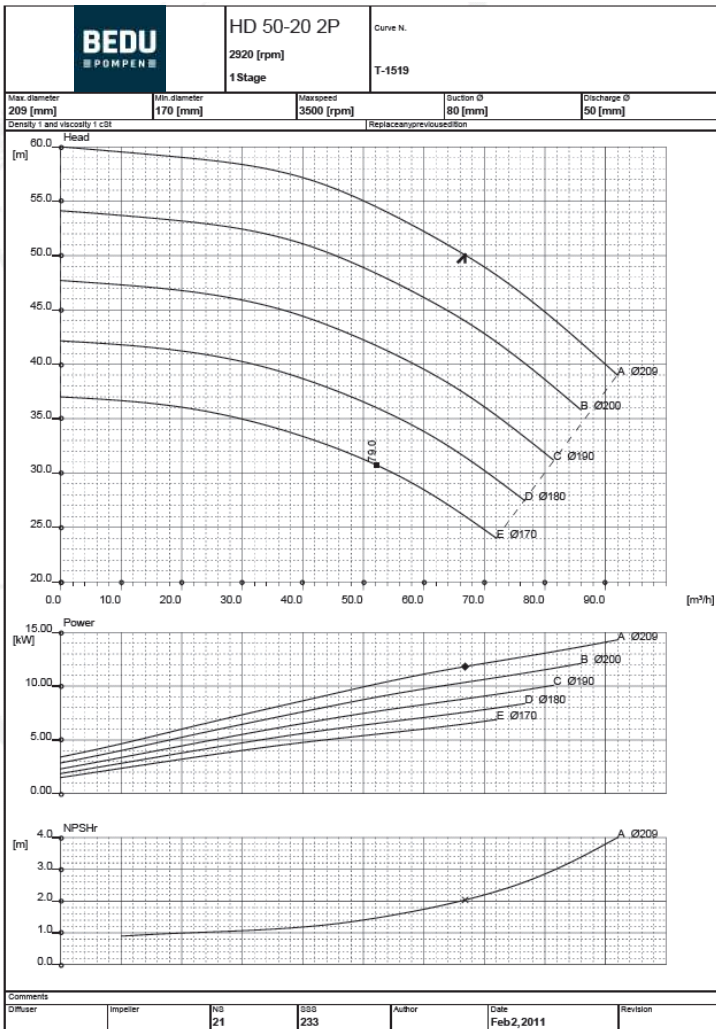
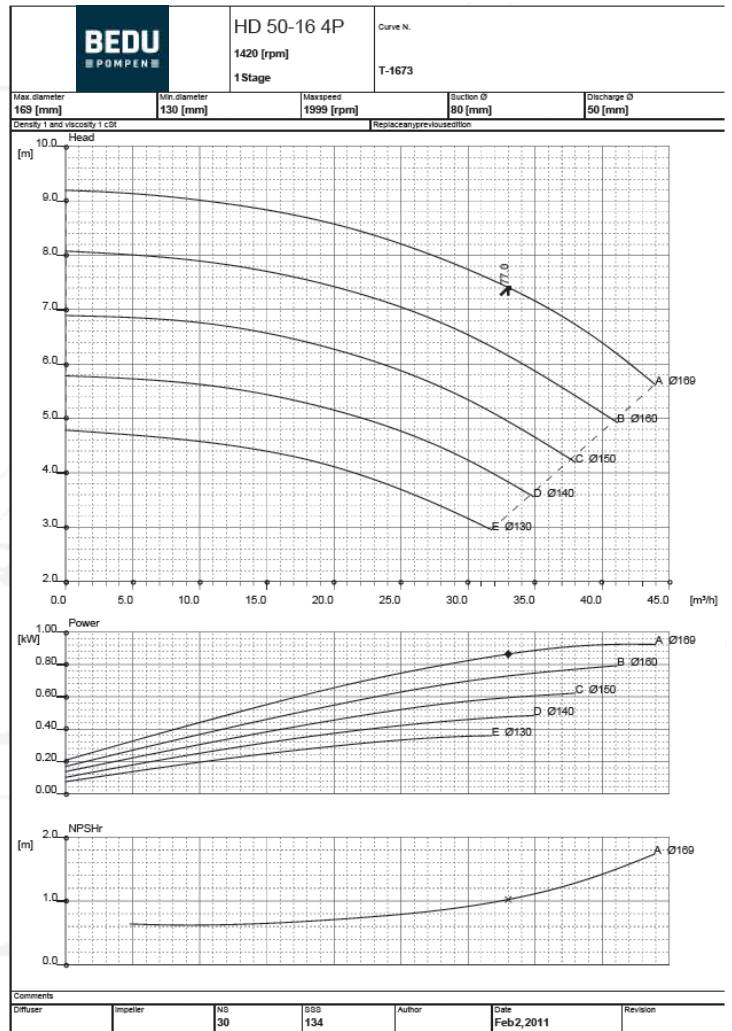
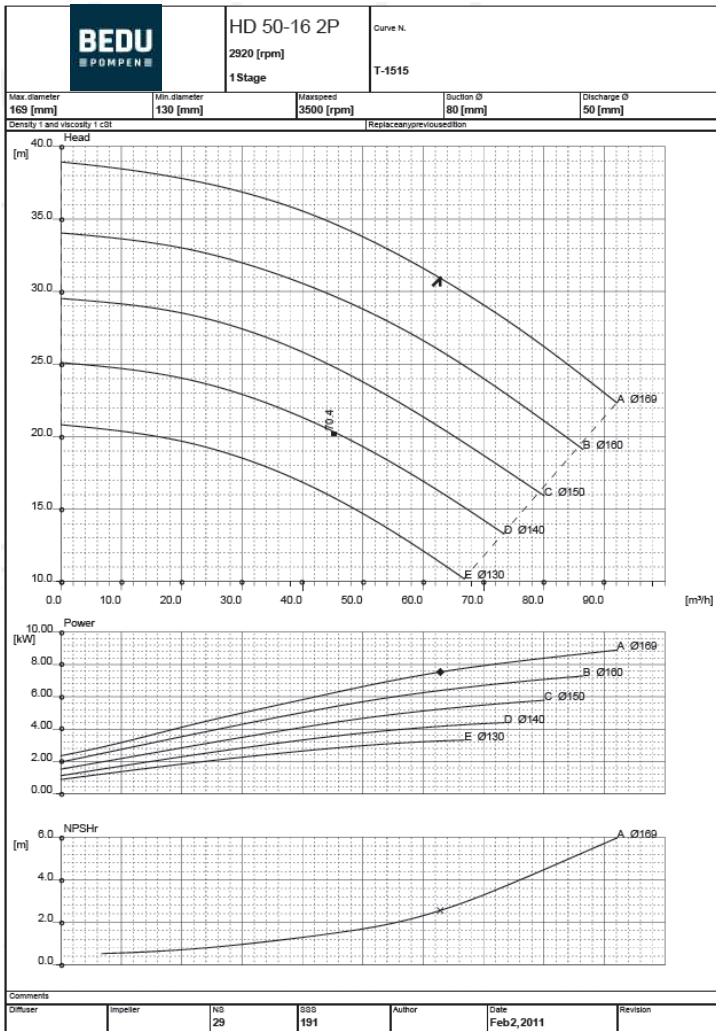
H heating / cooling chamber

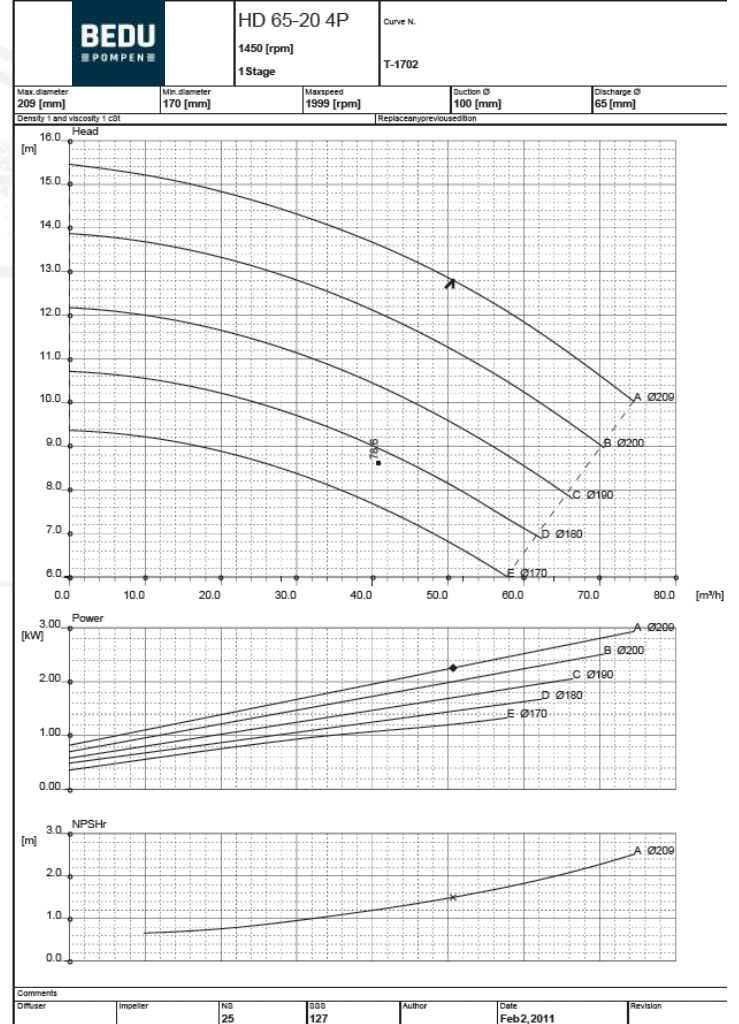
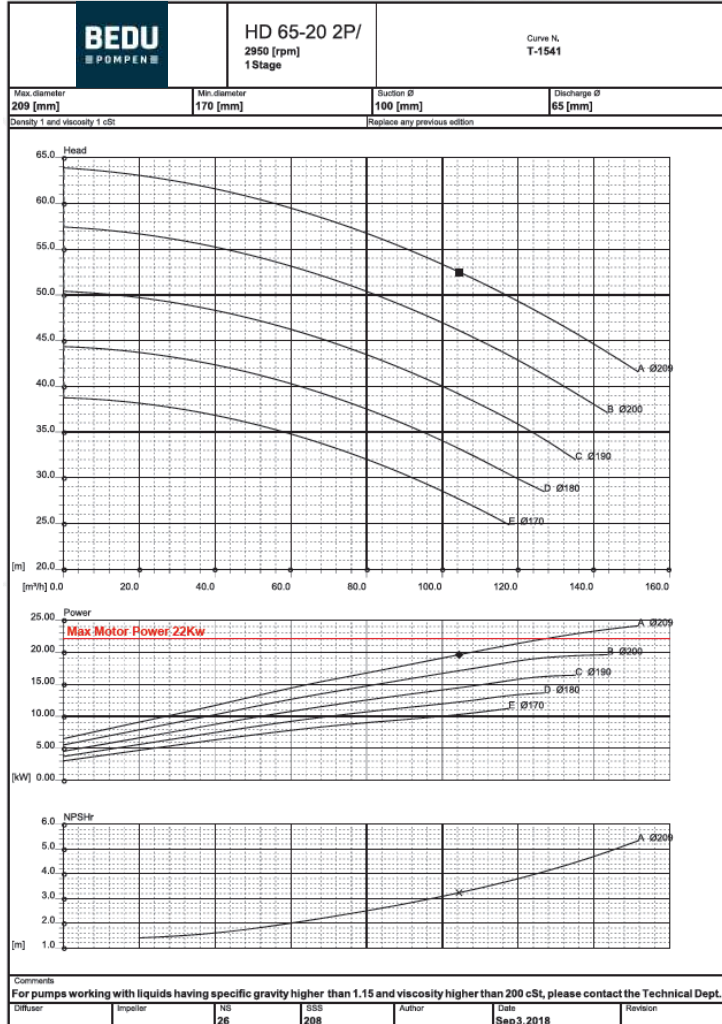
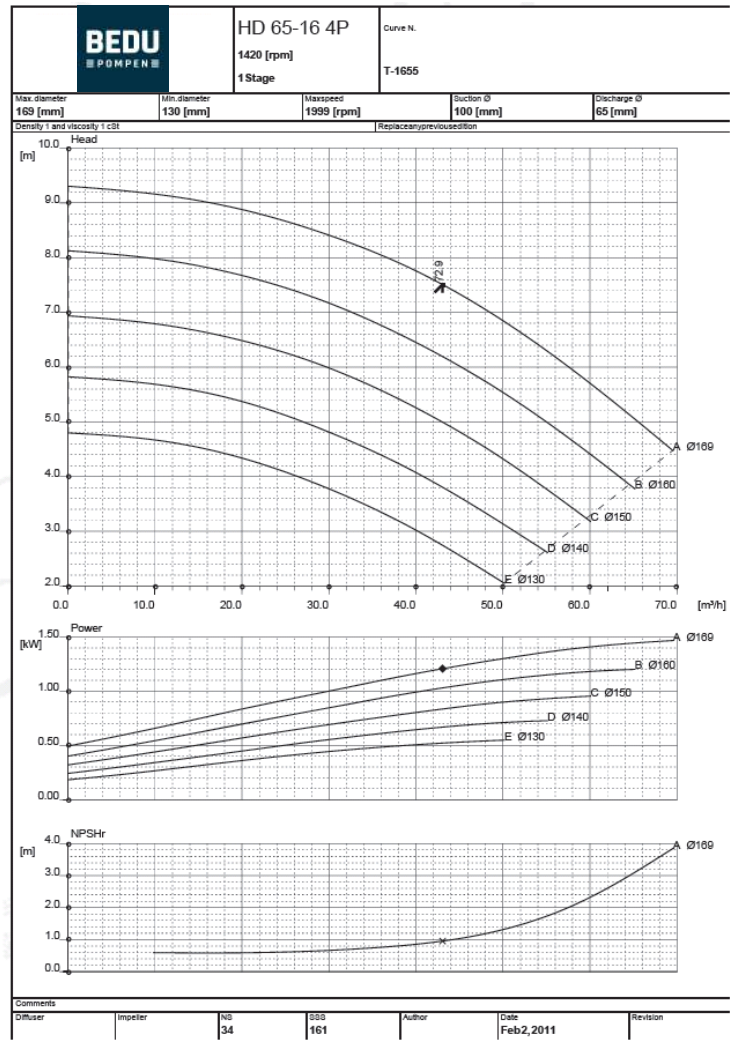
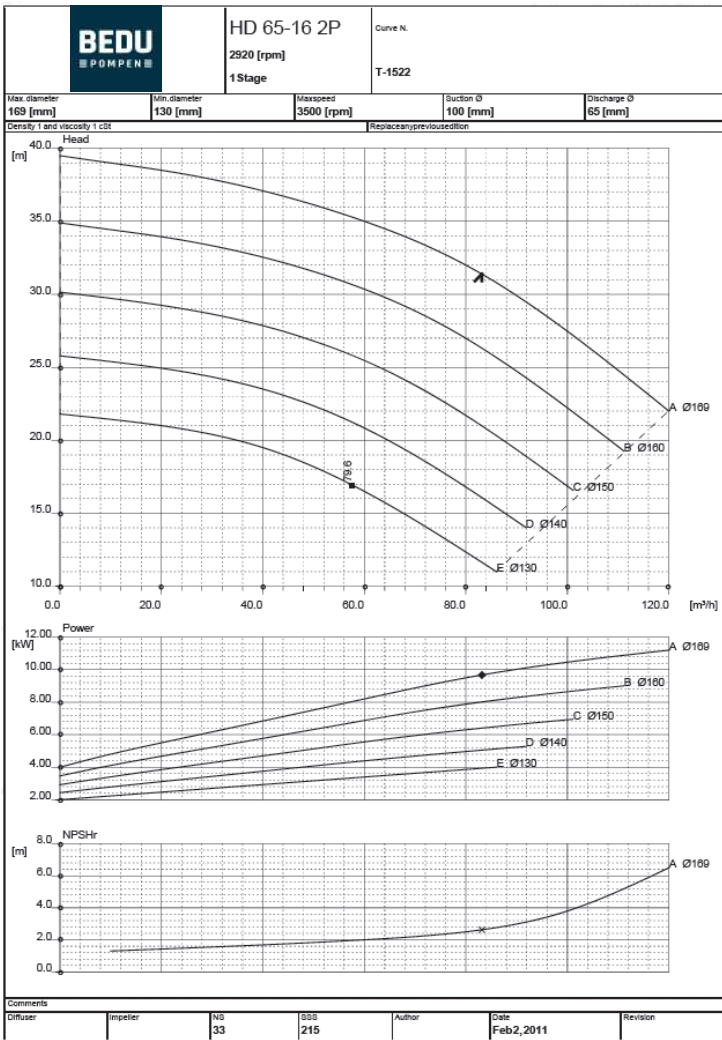
UK Heating or cooling chamber can be easily installed on all HD-HG pumps

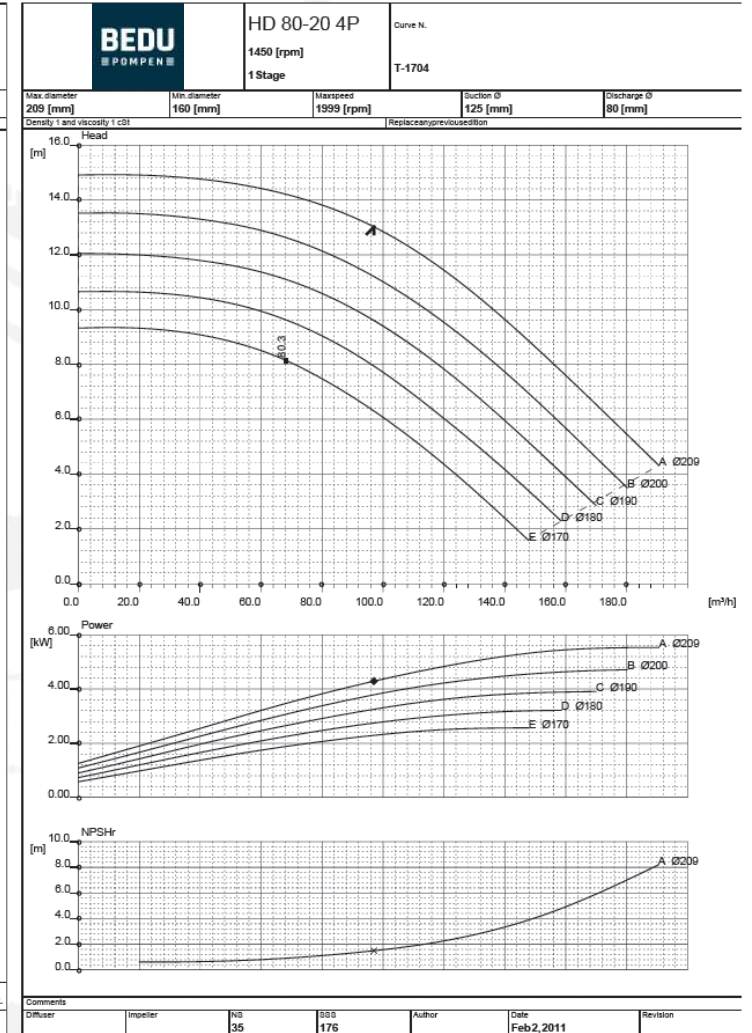
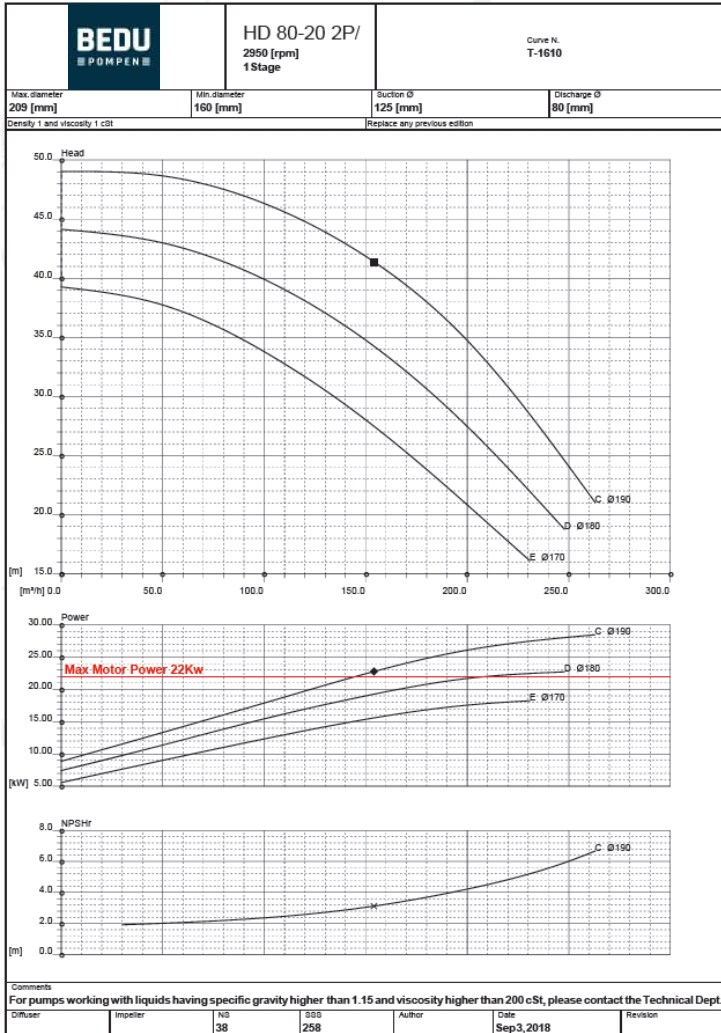
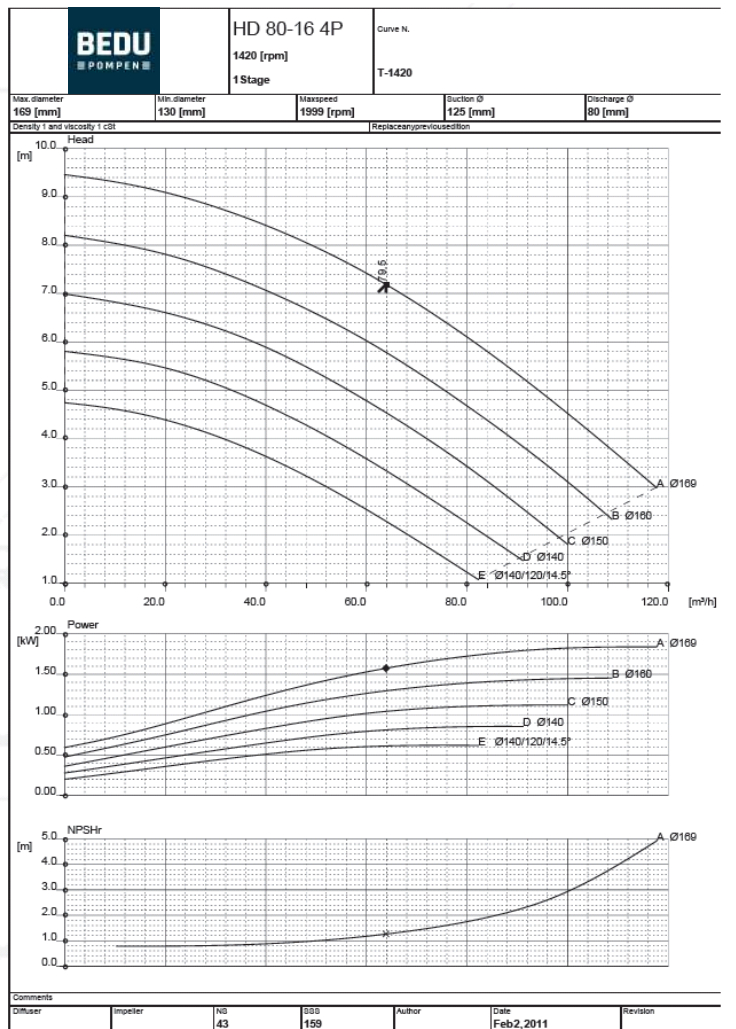
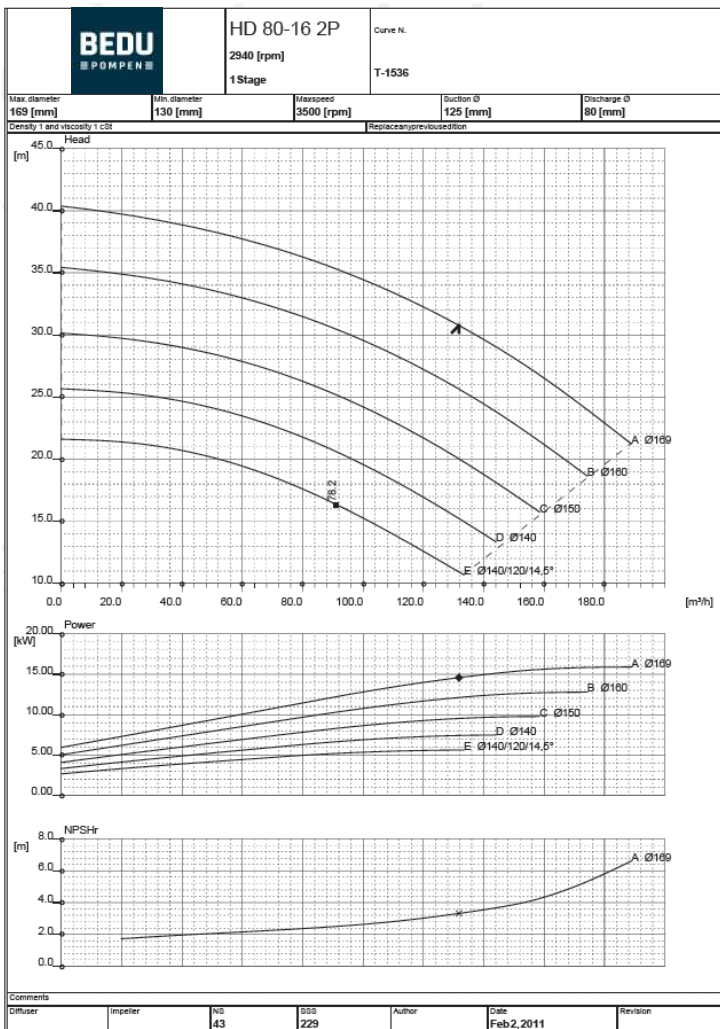


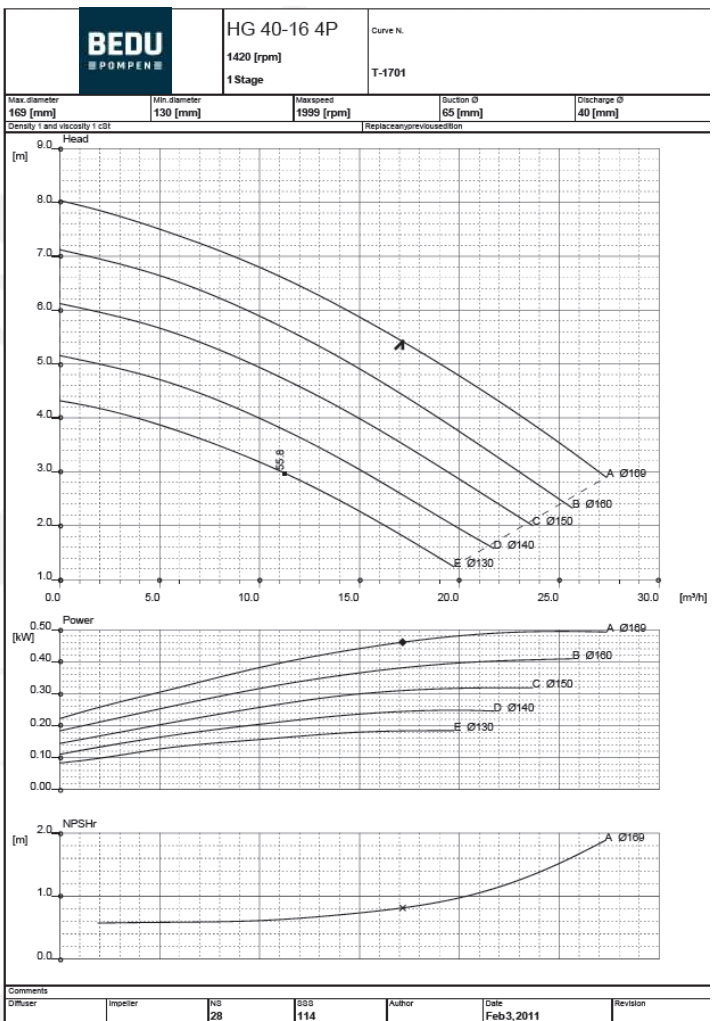
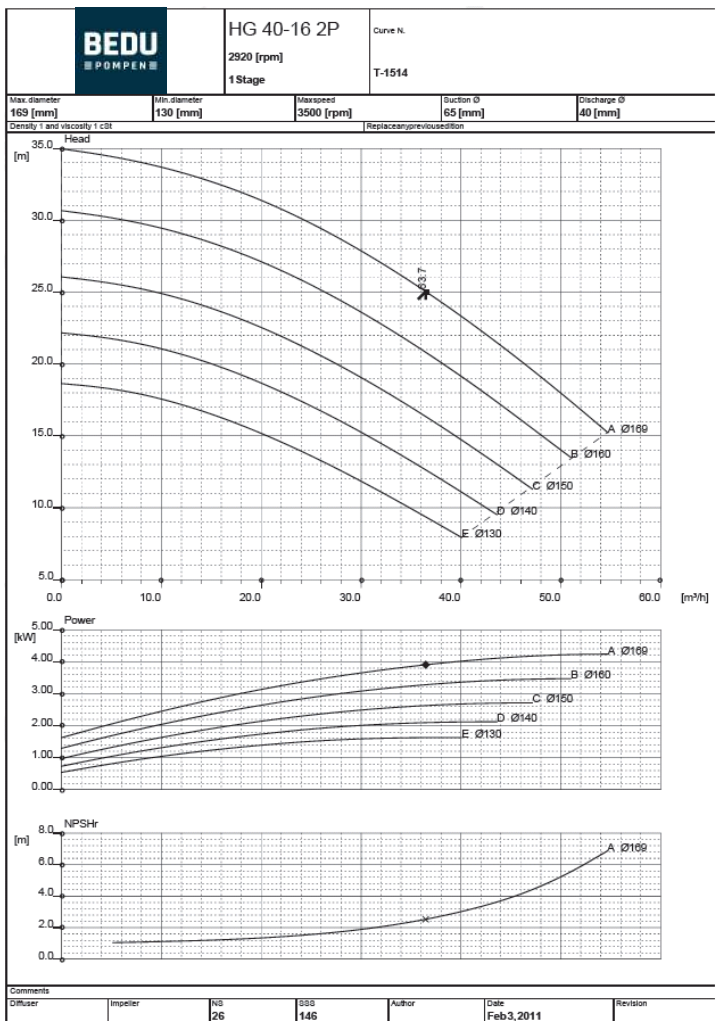
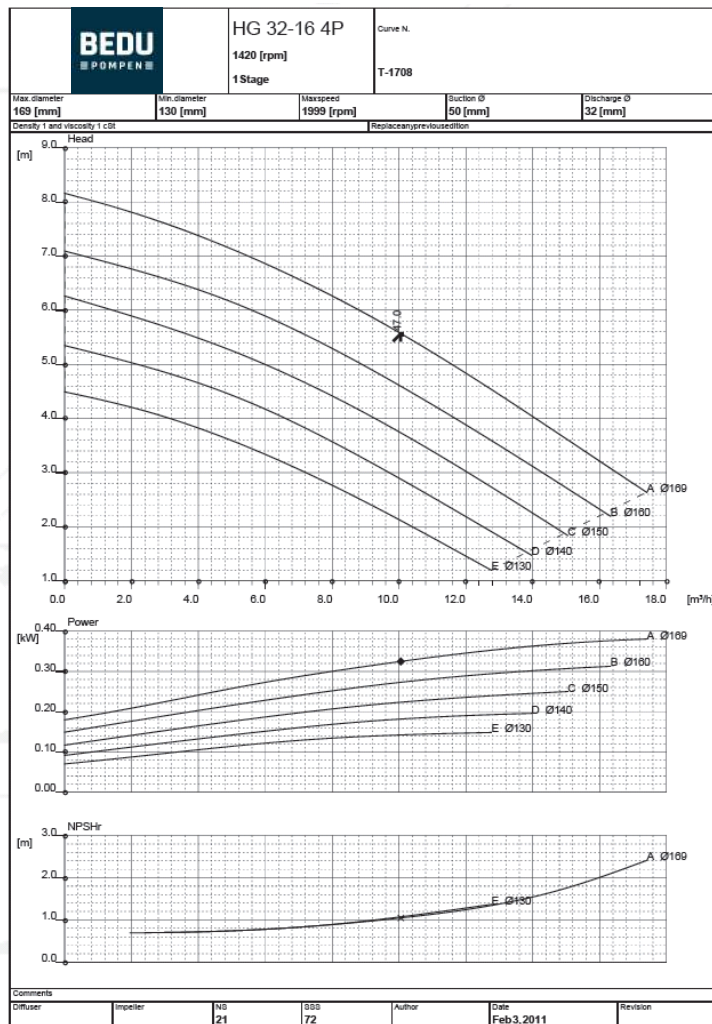
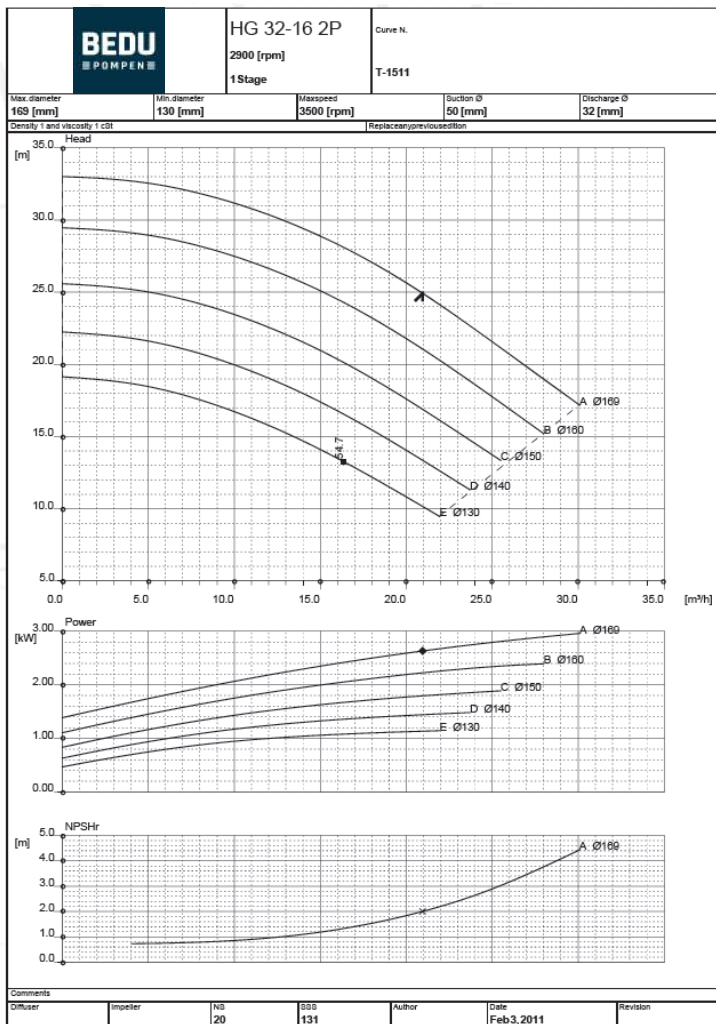


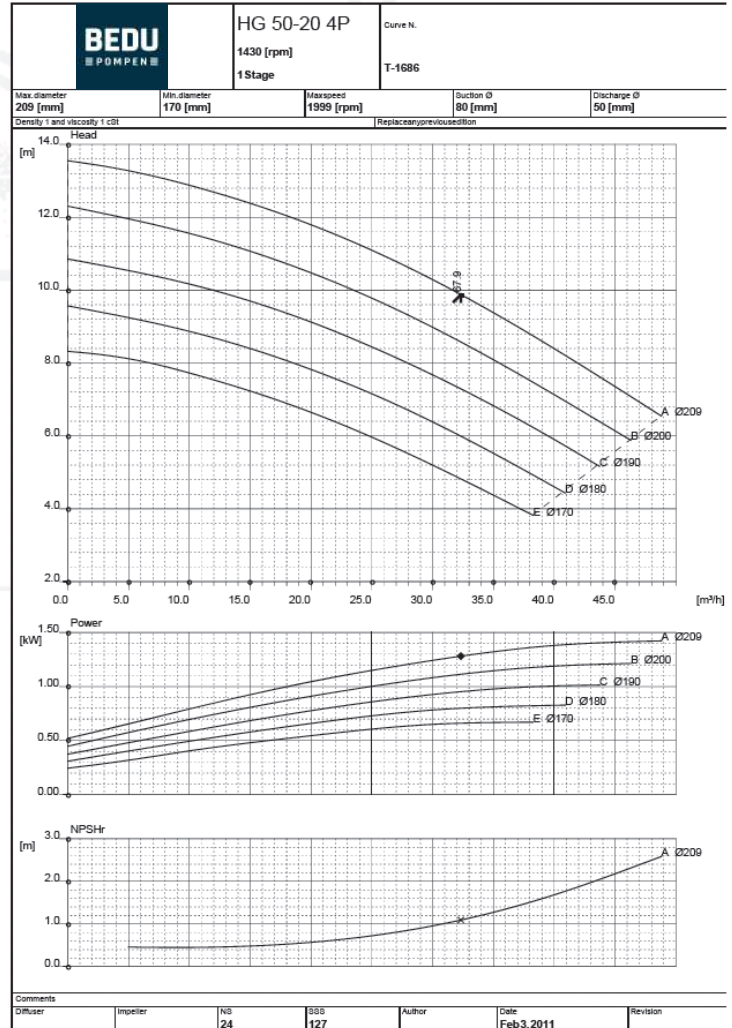
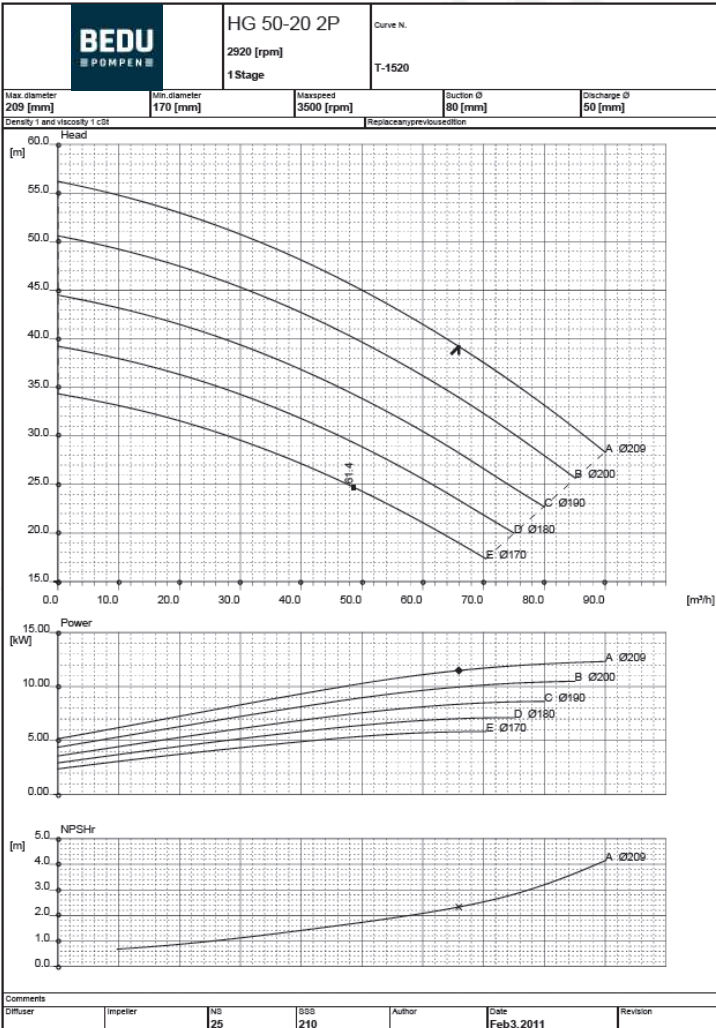
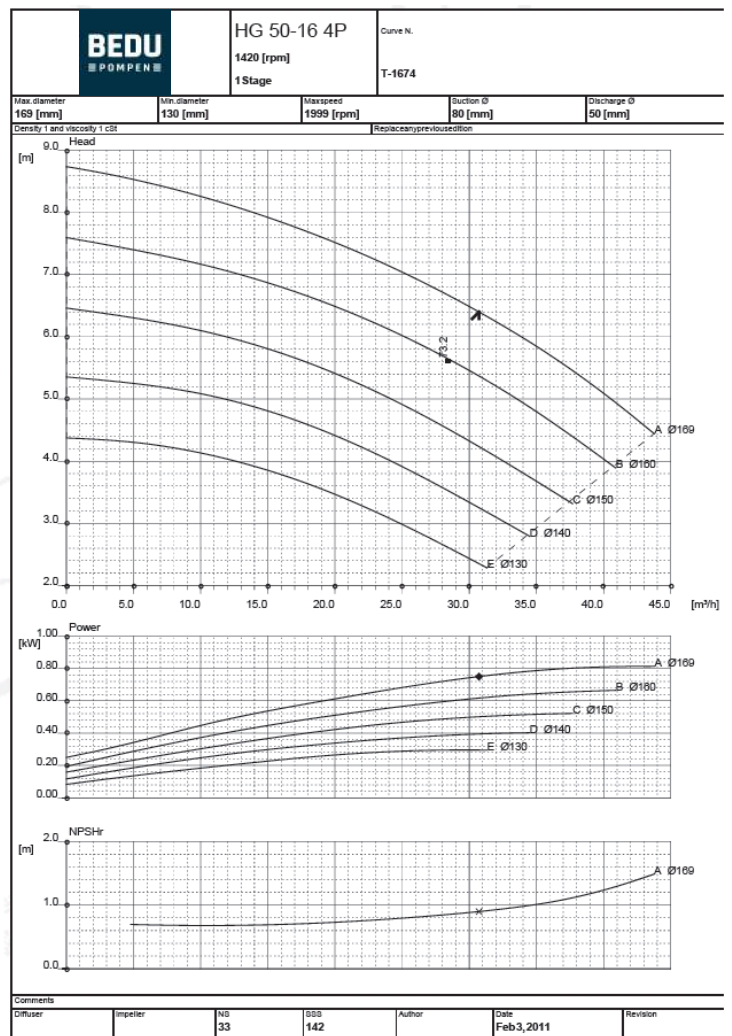
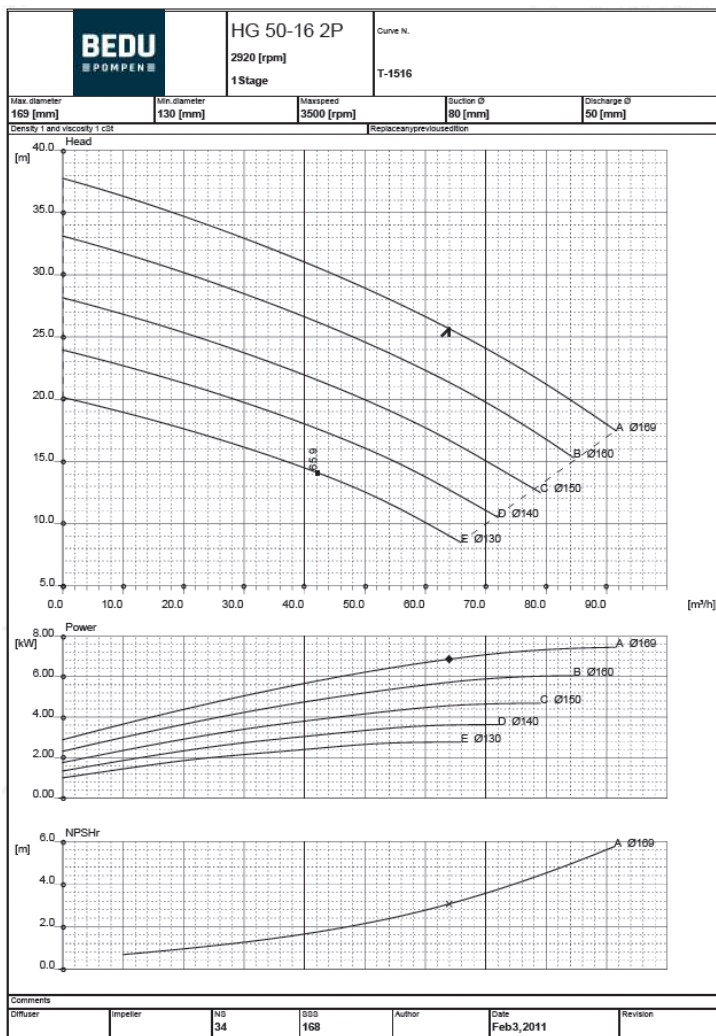


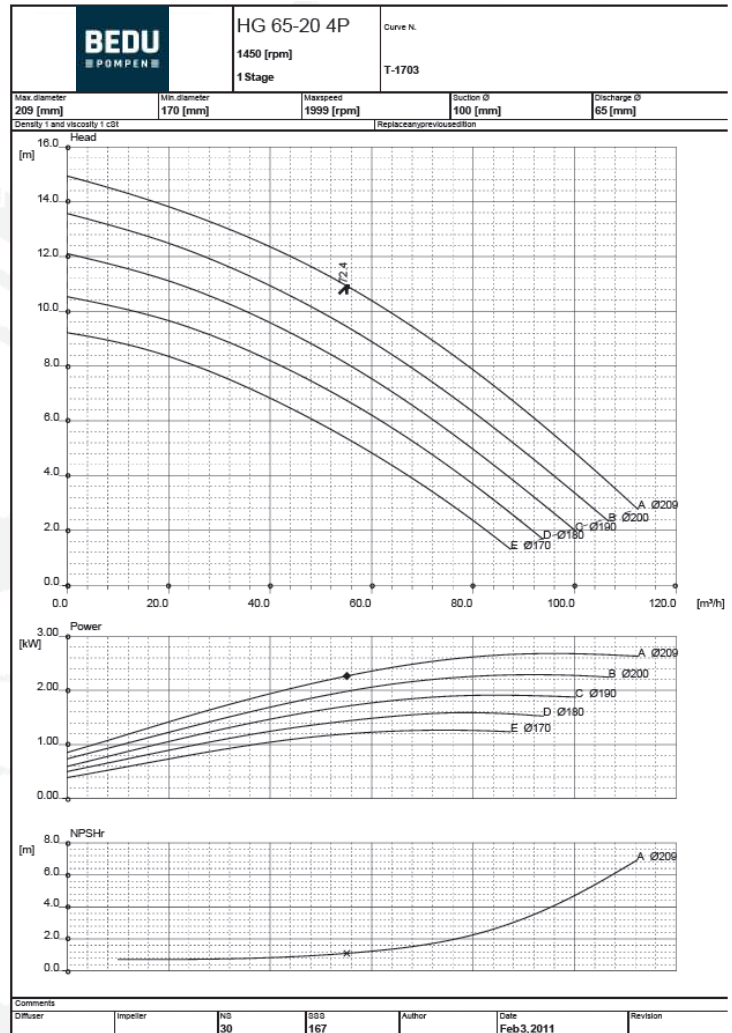
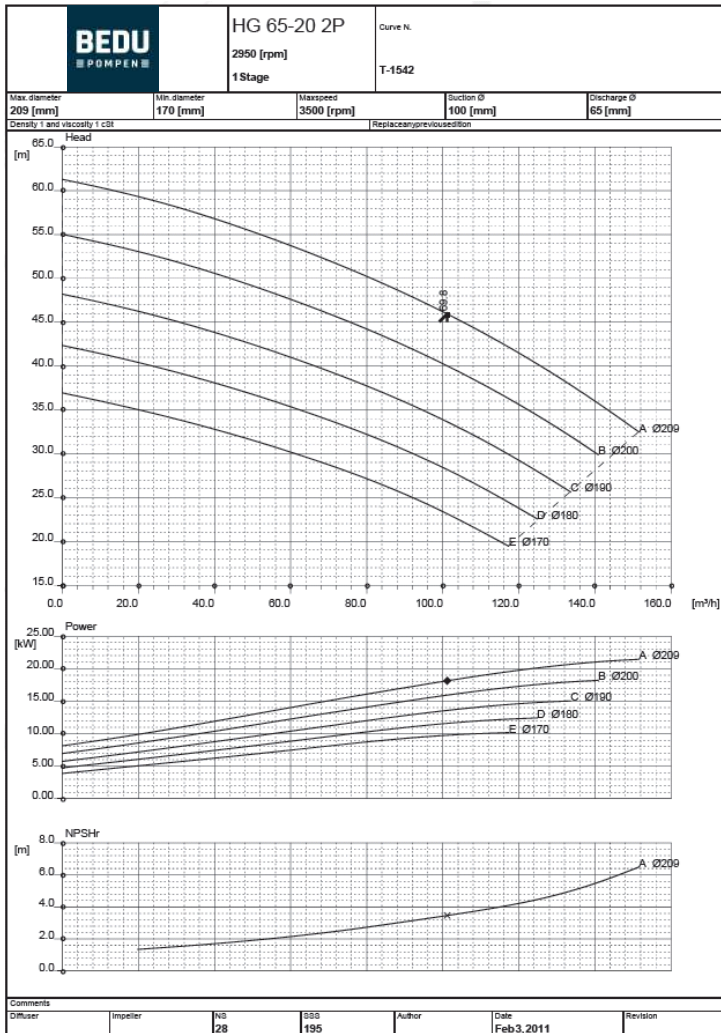
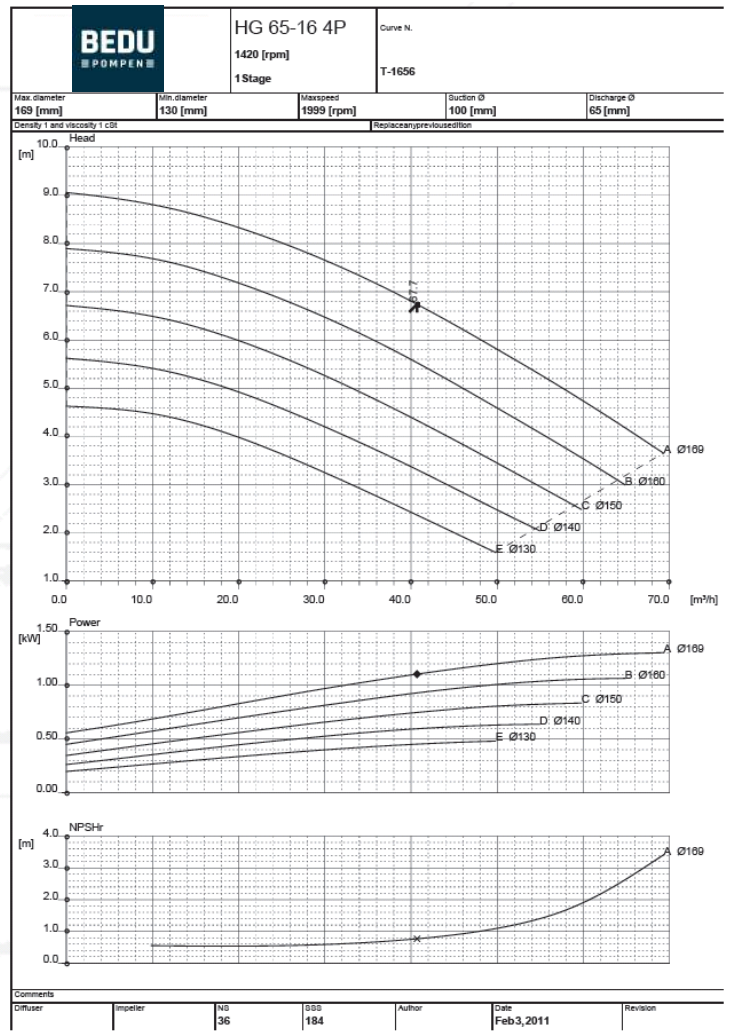
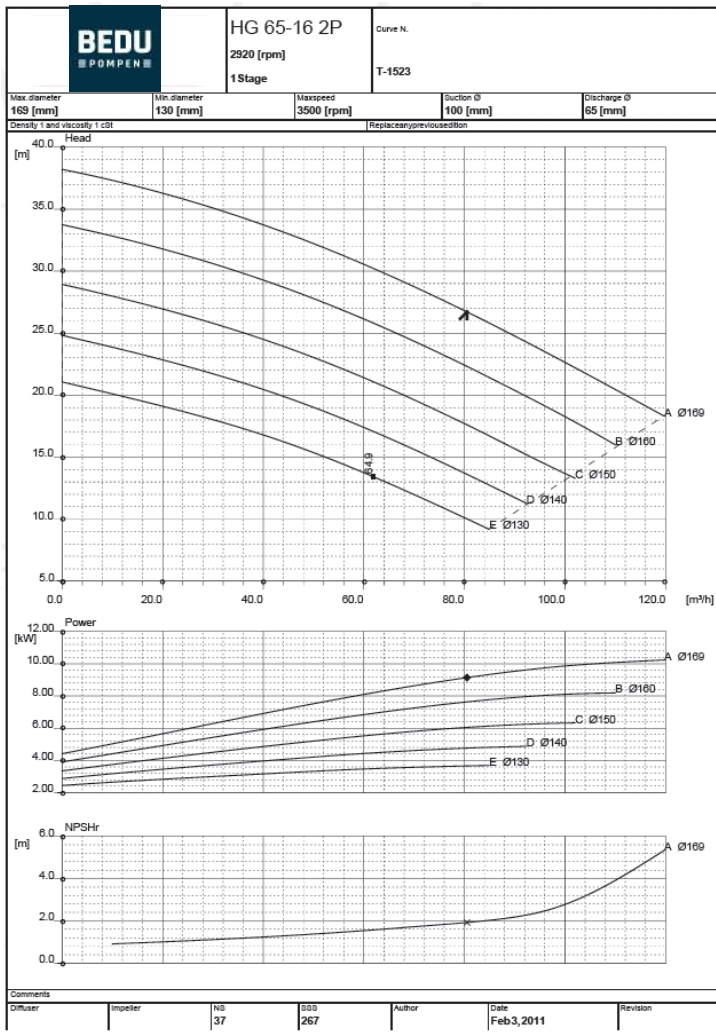


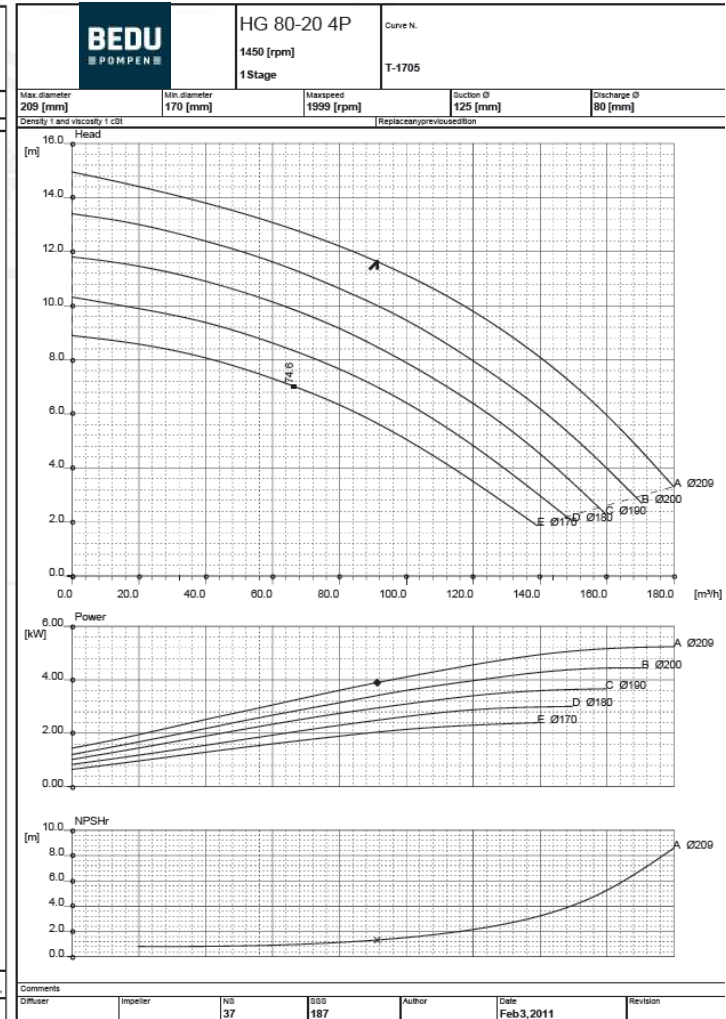
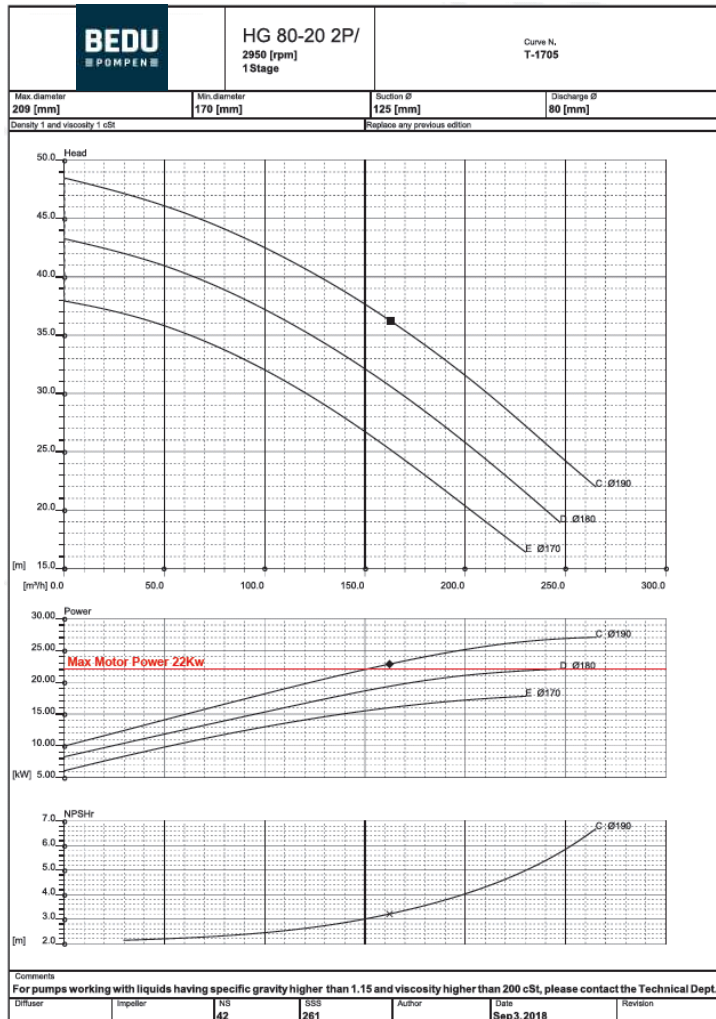
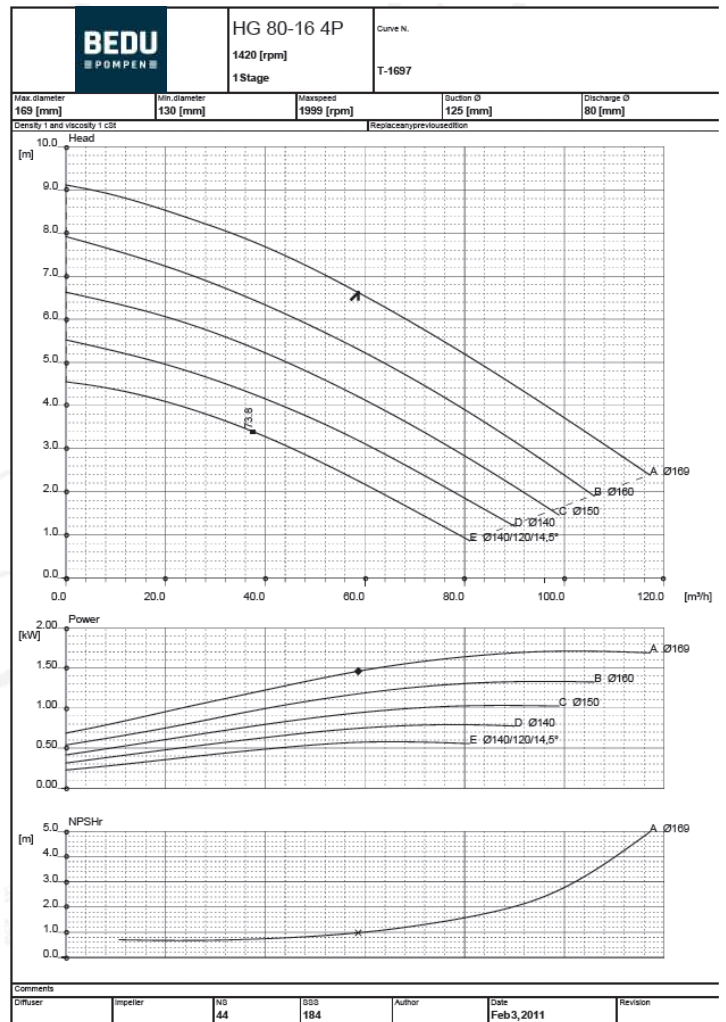
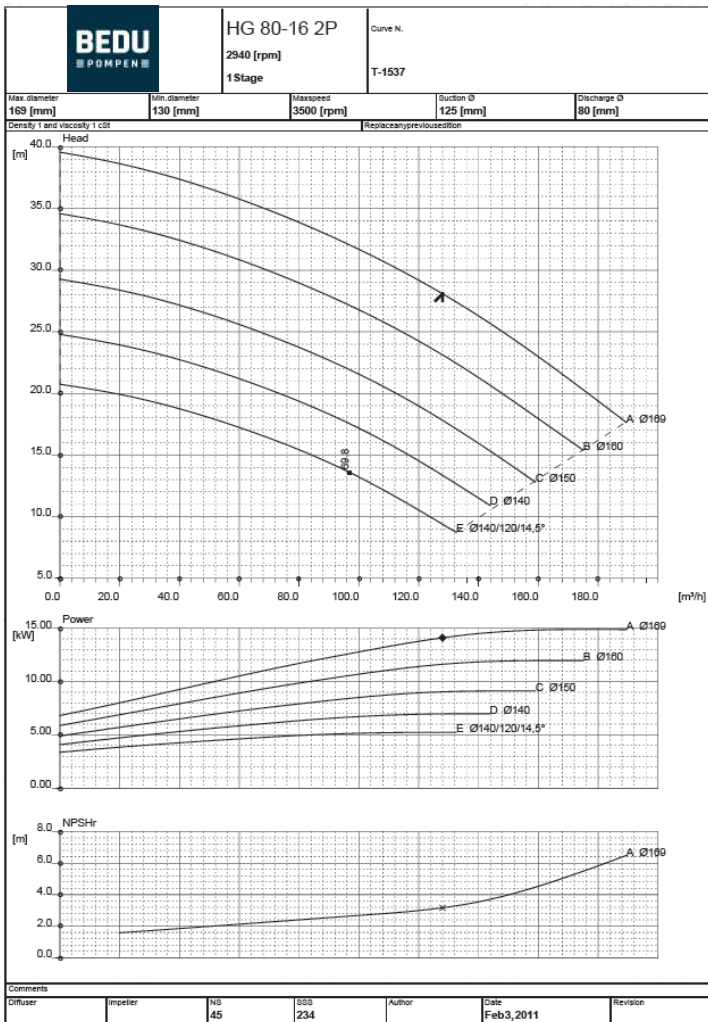


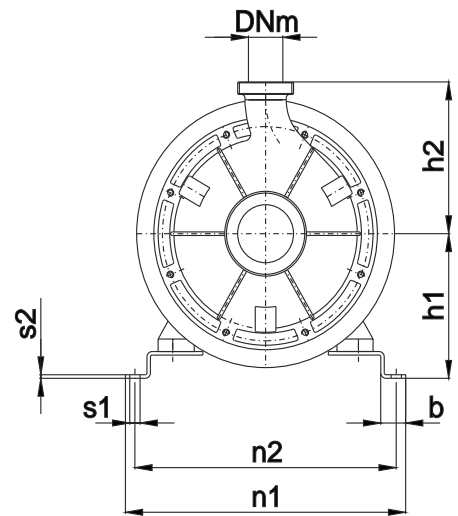
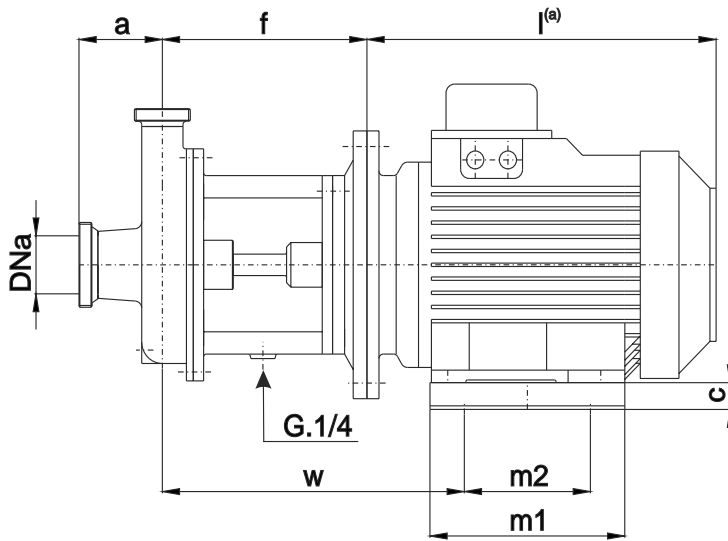
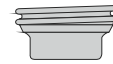




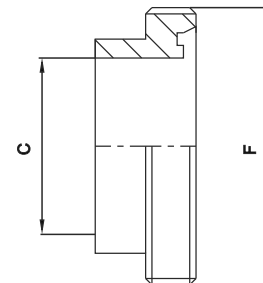








ELECTRIC MOTOR					
Size IEC	Power in kw			^(a) [mm]	^(a) Weight [kg]
	2 Poles	4 Poles	6 Poles		
80	0.75	0.55	0.37	232	9
80	1.1	0.75	0.55	232	10
90	1.5	1.1	0.75	245	13
90	2.2	1.5	1.1	270	16
100	3	2.2	1.5	298	21
100	-	3	-	298	23
112	4	4	2.2	312	30
132	5.5	5.5	3	381	40
132	7.5	7.5	4	381	50
132	9.2	9.2	5.5	381	50
160	11	11	7.5	486	76
160	15	15	11	486	85
160	18.5	-	-	486	95
180	22	18.5	-	576	125
180	-	22	15	576	145

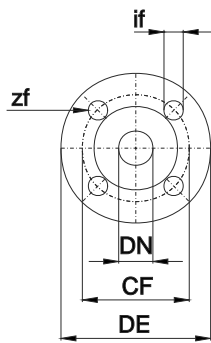
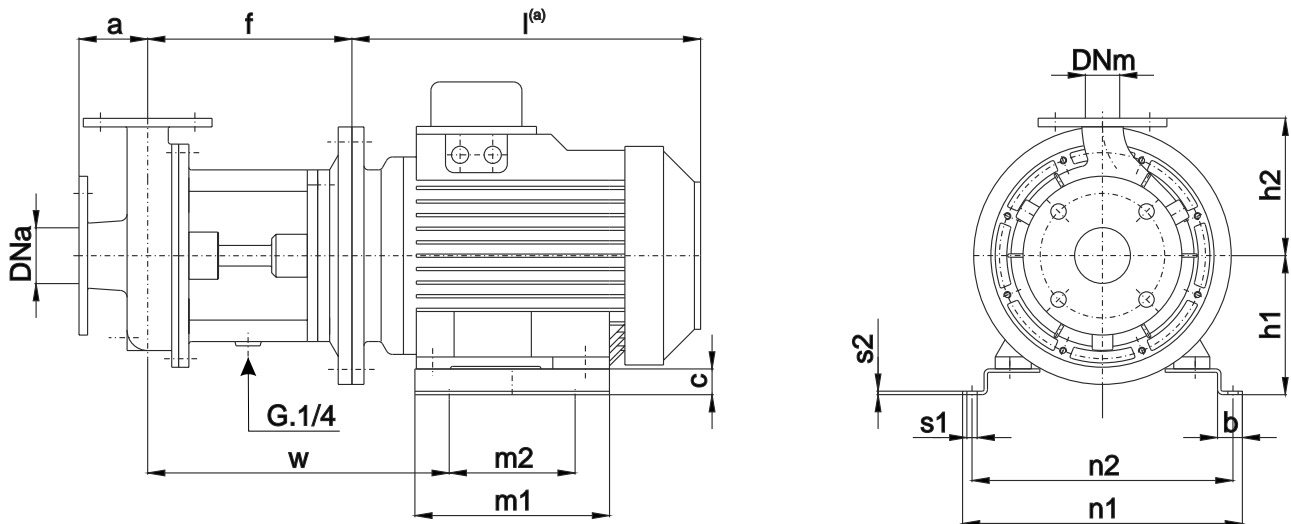
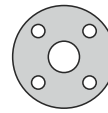


DIN 11851		
DN	C	F
25	25,0	52x1/6
32	31,0	58x1/6
40	37,0	65x1/6
50	49,0	78x1/6
65	66,0	95x1/6
80	81,0	110x1/4
100	97,6	130x1/4

(a)

Dimensions and weights are subject to variations.

Not binding dimension that can change according to motor brand



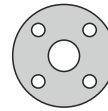
Dimensions Flanges EN 1092-1								
DNa - DNm	25	32	40	50	65	80	100	125
CF	85	100	110	125	145	160	180	210
DE	115	140	150	165	185	200	220	250
if	14	18	18	18	18	18	18	18
zf	4	4	4	4	4	8	8	8

ELECTRIC MOTOR					
Size IEC	Power in kw			(a) [mm]	(a) Weight [kg]
	2 Poles	4 Poles	6 Poles		
80	0.75	0.55	0.37	232	9
80	1.1	0.75	0.55	232	10
90	1.5	1.1	0.75	245	13
90	2.2	1.5	1.1	270	16
100	3	2.2	1.5	298	21
100	-	3	-	298	23
112	4	4	2.2	312	30
132	5.5	5.5	3	381	40
132	7.5	7.5	4	381	50
132	9.2	9.2	5.5	381	50
160	11	11	7.5	486	76
160	15	15	11	486	85
160	18.5	-	-	486	95
180	22	18.5	-	576	125
180	-	22	15	576	145

(a)

Dimensions and weights are subject to variations.

Not binding dimension that can change according to motor brand



Pump size	Motor size	DIMENSIONS [mm]															weight ^(b) [kg]
		DNa	DNm	a	f	h1	h2	b	c	m1	m2	n1	n2	s1	s2	w	
25-16	80	40	25	60	187	155	147	23	75	300	220	203	183	10	3	177	15
	90	40	25	60	187	165	147	23	75	300	220	218	198	10	3	183	15
	100	40	25	60	207	155	147	25	55	280	200	240	218	12	3	240	21
	112	40	25	60	207	167	147	25	55	280	200	270	248	12	3	247	21
32-16	80	50	32	80	194	155	160	23	75	300	220	203	183	10	3	184	18
	90	50	32	80	194	165	160	23	75	300	220	218	198	10	3	190	18
	100	50	32	80	214	155	160	25	55	280	200	240	218	12	3	247	24
	112	50	32	80	214	167	160	25	55	280	200	270	248	12	3	254	24
	132	50	32	80	234	162	160	29	30	340	220	326	304	14	4	283	24
32-20	<i>SEE RSA 32 - 20</i>																
40-16	80	65	40	80	198	155	160	23	75	300	220	203	183	10	3	188	20
	90	65	40	80	198	165	160	23	75	300	220	218	198	10	3	194	20
	100	65	40	80	218	155	160	25	55	280	200	240	218	12	3	251	26
	112	65	40	80	218	167	160	25	55	280	200	270	248	12	3	258	26
	132	65	40	80	238	162	160	29	30	340	220	326	304	14	4	287	26
40-20	<i>SEE RSA 40 - 20</i>																
50-16	80	80	50	100	203	155	180	23	75	300	220	203	183	10	3	193	21
	90	80	50	100	203	165	180	23	75	300	220	218	198	10	3	199	21
	100	80	50	100	223	155	180	25	55	280	200	240	218	12	3	256	27
	112	80	50	100	223	167	180	25	55	280	200	270	248	12	3	263	27
	132	80	50	100	243	162	180	29	30	340	220	326	304	14	4	292	27
	160	80	50	100	273	210	180	45	50	500	350	404	364	15	5	311	32
50-20	80	80	50	100	221	155	200	23	75	300	220	203	183	10	3	211	27
	90	80	50	100	221	165	200	23	75	300	220	218	198	10	3	217	27
	100	80	50	100	238	155	200	25	55	280	200	240	218	12	3	271	33
	112	80	50	100	238	167	200	25	55	280	200	270	248	12	3	281	33
	132	80	50	100	261	162	200	29	30	340	220	326	304	14	4	310	33
	160	80	50	100	291	210	200	45	50	500	350	404	364	15	5	329	41
65-16	80	100	65	100	230	155	200	23	75	300	220	203	183	10	3	220	29
	90	100	65	100	230	165	200	23	75	300	220	218	198	10	3	225	29
	100	100	65	100	250	155	200	25	55	280	200	240	218	12	3	282	35
	112	100	65	100	250	167	200	25	55	280	200	270	248	12	3	290	35
	132	100	65	100	270	162	200	29	30	340	220	326	304	14	4	318	35
	160	100	65	100	300	210	200	45	50	500	350	404	364	15	5	328	43
65-20	90	100	65	100	229	190	225	30	100	370	220	234	207	12	3	225	35
	100	100	65	100	249	200	225	30	100	370	220	254	227	12	3	272	41
	112	100	65	100	249	212	225	30	100	370	220	284	257	12	3	279	41
	132	100	65	100	269	212	225	31	80	400	300	325	298	12	4	278	41
	160	100	65	100	299	210	225	45	50	500	350	404	364	15	5	337	49
	180	100	65	100	299	230	225	45	50	500	350	429	389	15	5	365	49
80-16	90	125	80	125	296	190	225	30	100	370	220	234	207	12	3	232	37
	100	125	80	125	256	200	225	30	100	370	220	254	227	12	3	279	43
	112	125	80	125	256	212	225	30	100	370	220	284	257	12	3	286	43
	132	125	80	125	276	212	225	31	80	400	300	325	298	12	4	285	43
	160	125	80	125	306	210	225	45	50	500	350	404	364	15	5	344	51
	180	125	80	125	306	230	225	45	50	500	350	429	389	15	5	372	51
80-20	90	125	80	125	236	190	250	30	100	370	220	234	207	12	3	232	40
	100	125	80	125	256	200	250	30	100	370	220	254	227	12	3	279	46
	112	125	80	125	256	212	250	30	100	370	220	284	257	12	3	286	46
	132	125	80	125	276	212	250	31	80	400	300	325	298	12	4	285	46
	160	125	80	125	306	210	250	45	50	500	350	404	364	15	5	344	54
	180	125	80	125	306	230	250	45	50	500	350	429	389	15	5	372	54

Dimensions and weights are subject to variations.

^(b) Weight without electric motor

The logo consists of the word "BEDU" in a large, bold, white sans-serif font, with "POMPEN" in a smaller, white sans-serif font below it. The text is centered within a dark teal square, which is itself centered within a white square border.

BEDU
POMPEN

made for your process

- Expert advice
- A customer-oriented organization that adapts to the requirements and wishes of your organization
- Innovative and customized solutions
- Breakdownservice, 24 hours a day, 7 days a week
- Technical service with extensive test facilities, working from our own workplace or at your location
- A fast and appropriate solution for all your issues
- Wide range of liquid pumps
- Repair, maintenance and revision

BEDU POMPEN B.V.
Poort van Midden Gelderland Rood 10
6666 LT HETEREN
Nederland
Telefoon +31 (0)88 4802 900
E-mail sales@bedu.eu

WWW.BEDU.NL

BEDU BELGIUM B.V.B.A.
Industriepark-West 75
9100 SINT-NIKLAAS
België
Telefoon +32 (0)3 80 87 980
E-mail sales@bedu.eu

WWW.BEDU.BE

