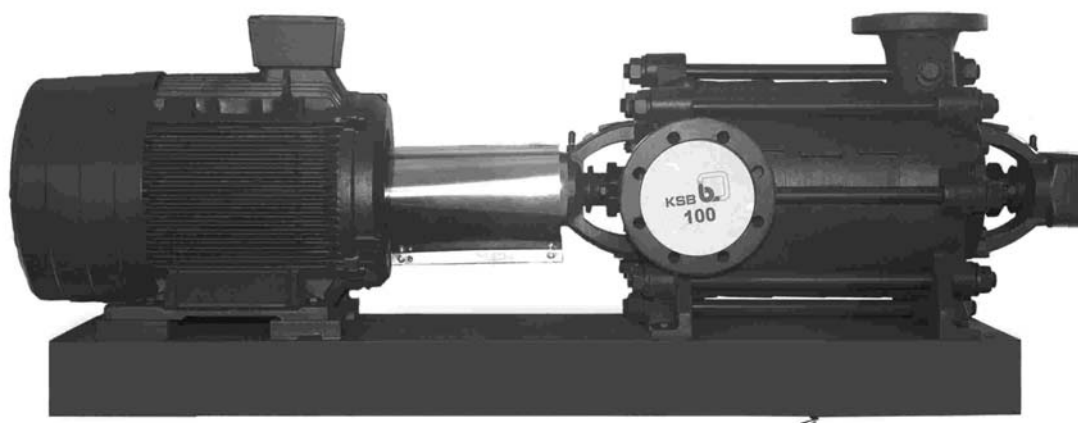


Multistage High Pressure Pump



Fields of application

- Water supply
- Hot water
- Fire fighting water
- Sprinkler systems
- Boiler feed pump
- Drinking water
- Hot water
- Cooling water
- Sea water
- Swimming pool water
- Condense water

Operating data

Capacity	: up to 450 m ³ /h
Head	: up to 375 m
Discharge nozzle	: from 32 up to 150 mm
Operating pressure	: DN32-65 : max. 25 bar
	: DN80-150 : max. 40bar*
Operating temperature	: -30°C up to +140°C

*The sum of inlet pressure and head at zero flow point must not exceed the value indicated.

Design

Horizontal multistage, in ring section design centrifugal pump with closed radial impellers. Flanges to EN standards.

Bearings

Ball bearings on discharge side and cylindrical bearings on the drive side.

Shaft seal

Standardized mechanical seal or cooled /uncooled soft packing.

Designation

Type series	WKL	150	/	3	G	1
Discharge nozzle DN						
Number of stages						
Material code (G, M, B, S)						
Shaft seal type						
1- Soft packing						
1-HW-Soft packing-cooled						
16-Standard mechanical seal-for max.140 °C water						

Materials

Casing	: JL 1040 / JS 1025 / CC 480 K-GS
Impeller	: JL 1040 / CC 480 K-GS
Diffuser	: JL 1040 / CC 480 K-GS
Shaft	: St60
Bearing housing	: JL 1040
Shaft seal	: Soft packing (1) / max. 90 °C
	: Soft packing –water cooled (1-HW) / max.140 °C
	: Mechanical seal (16) / max. 140 °C

Drive

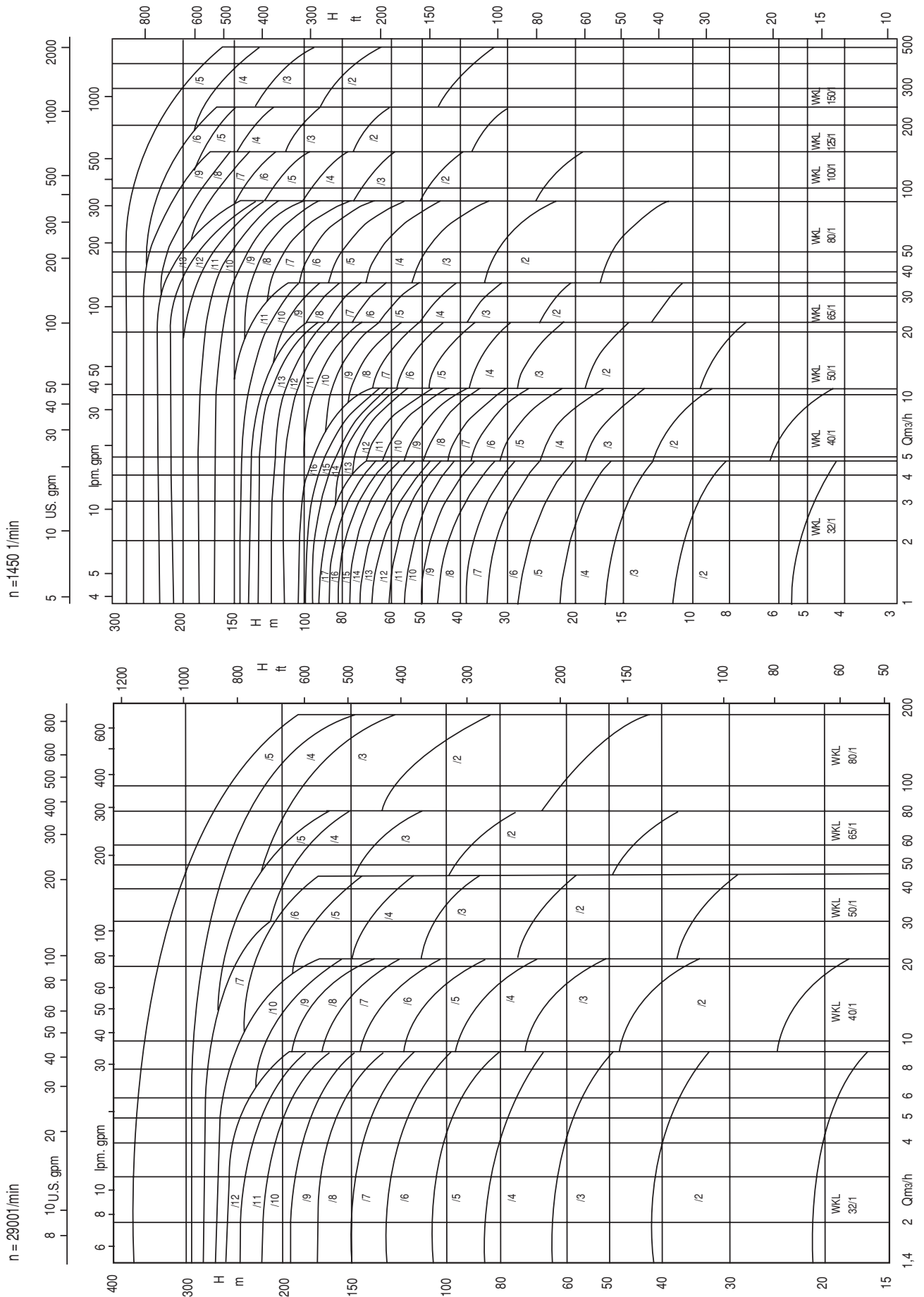
Surface-cooled three-phase squirrel cage motor.	
Up to 2,2 kW	: 220-240V / 380-420V
3 kW and above	: 380-420V / 660-725V
Design	: IMB3
Enclosure	: IP55
Thermal class	: F (optional with three thermistors)
Operating mode	: Continuous operation S1

Coupling

Flexible coupling with / without spacer sleeve.
Coupling guard as per EN 294.

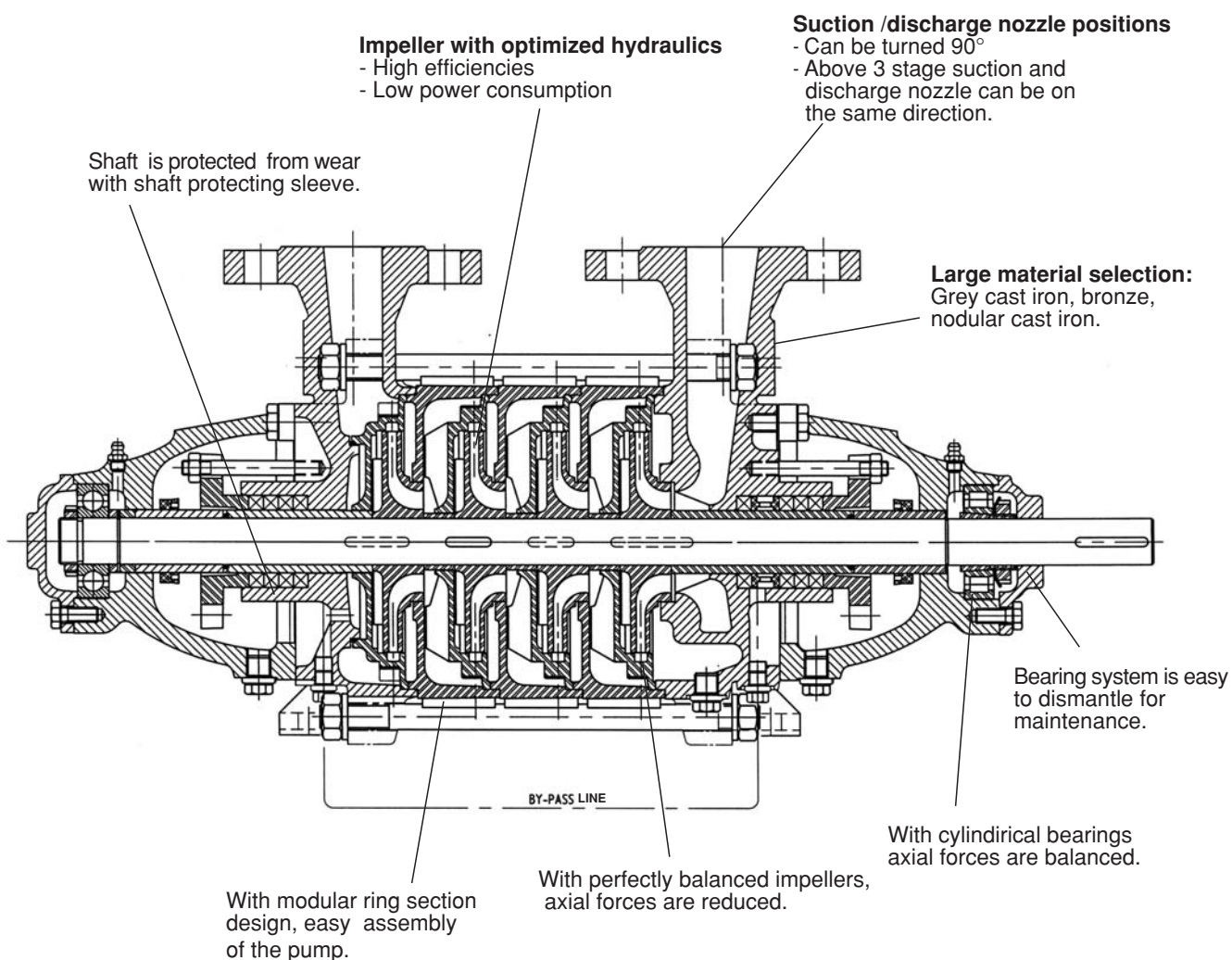
Baseplate

Sectional steel/folded steel plate, fabricated sectional steel for the complete unit (pump and motor) in torsion resistant design.



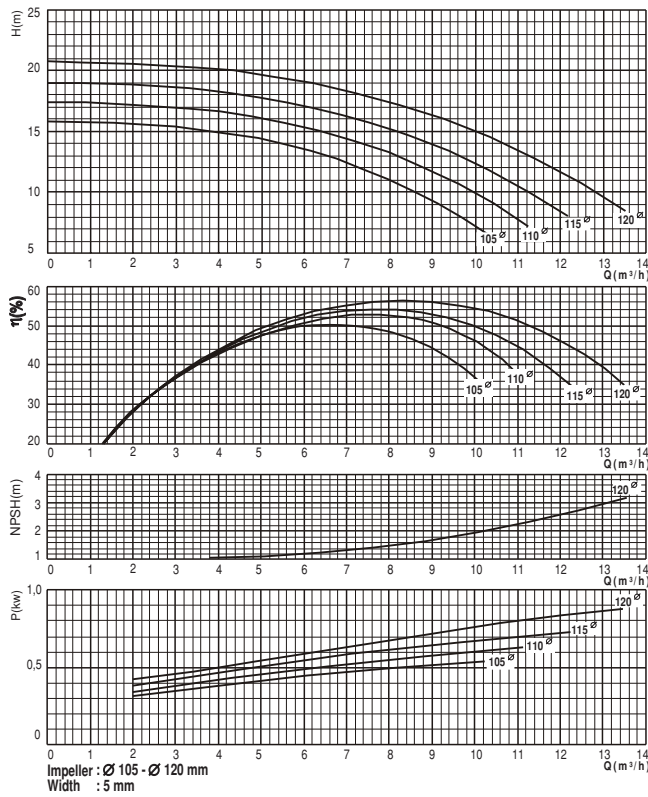
Materials

	WKL G	WKL M	WKL B	WKL S
Casing	JL 1040 (Grey cast iron)	JL 1040 (Grey cast iron)	CC 480 K-GS (Bronze)	JS 1025 (Nodular cast iron)
Discharge cover	JL 1040 (Grey cast iron)	JL 1040 (Grey cast iron)	CC 480 K-GS (Bronze)	JS 1025 (Nodular cast iron)
Impeller	JL 1040 (Grey cast iron)	CC 480 K-GS (Bronze)	CC 480 K-GS (Bronze)	JL 1040 (Grey cast iron)
Diffuser	JL 1040 (Grey cast iron)	CC 480 K-GS (Bronze)	CC 480 K-GS (Bronze)	JL 1040 (Grey cast iron)
Shaft	ST 60 (Carbon steel)	ST 60 (Carbon steel)	ST 60 (Carbon steel)	ST 60 (Carbon steel)
Shaft sleeve	JL 1040 (Grey cast iron)	JL 1040 (Grey cast iron)	JL 1040 (Grey cast iron)	JL 1040 (Grey cast iron)
Bearing housing	JL 1040 (Grey cast iron)	JL 1040 (Grey cast iron)	JL 1040 (Grey cast iron)	JL 1040 (Grey cast iron)



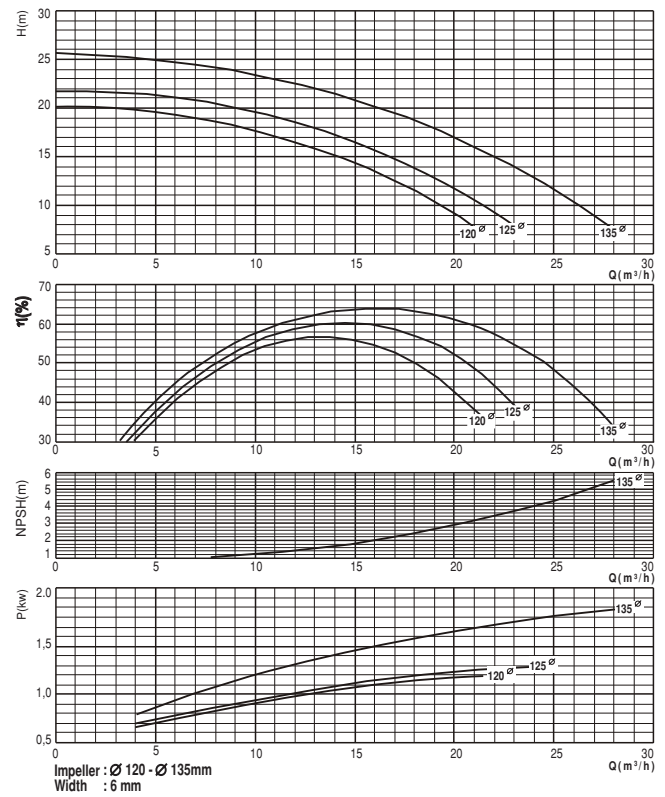
WKL 32

2900 1/min



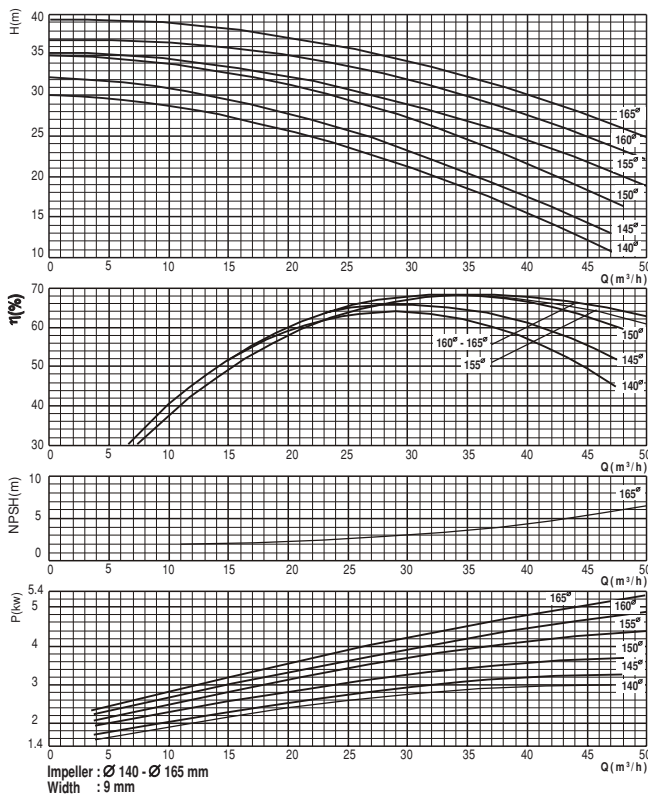
WKL 40

2900 1/min



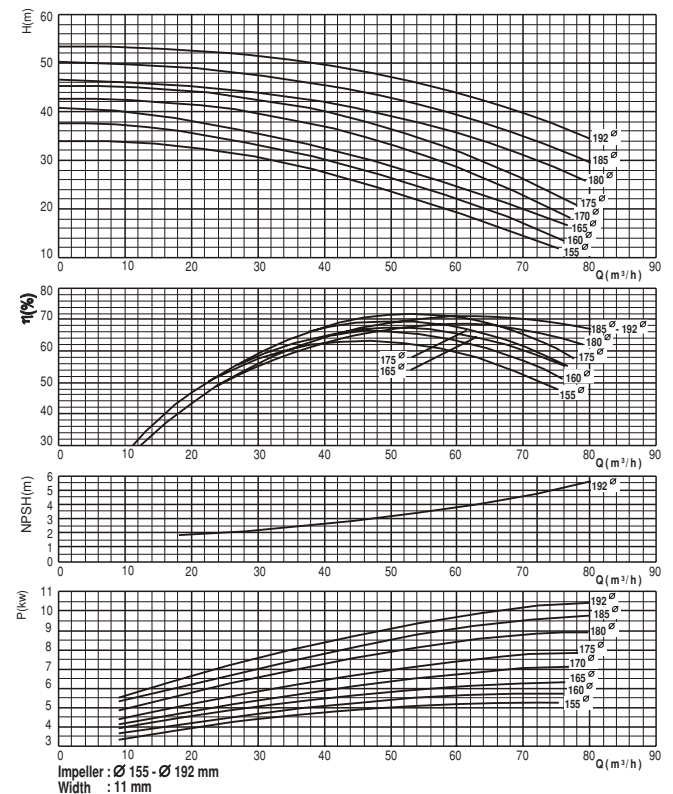
WKL 50

2900 1/min



WKL 65

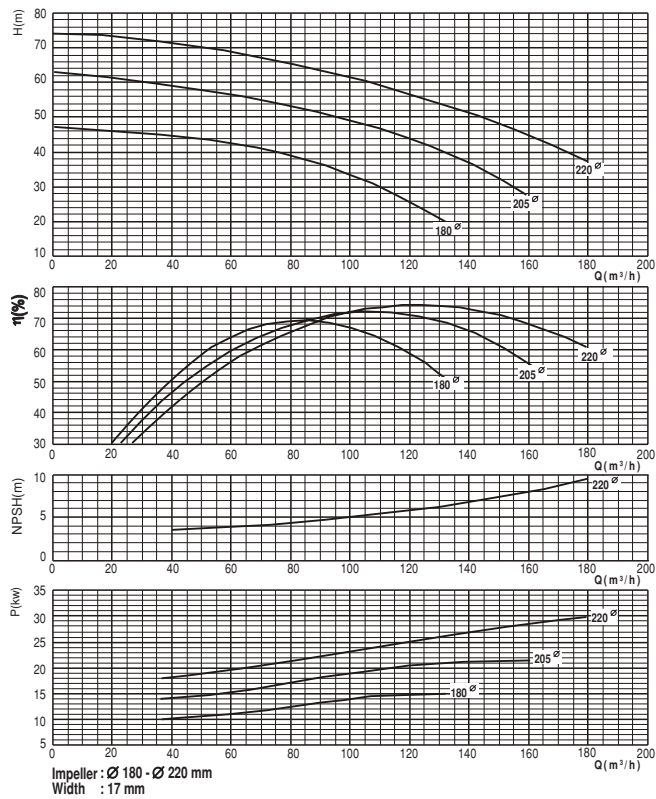
2900 1/min



Important : Above performance curves are valid for one stage of WKL

WKL 80

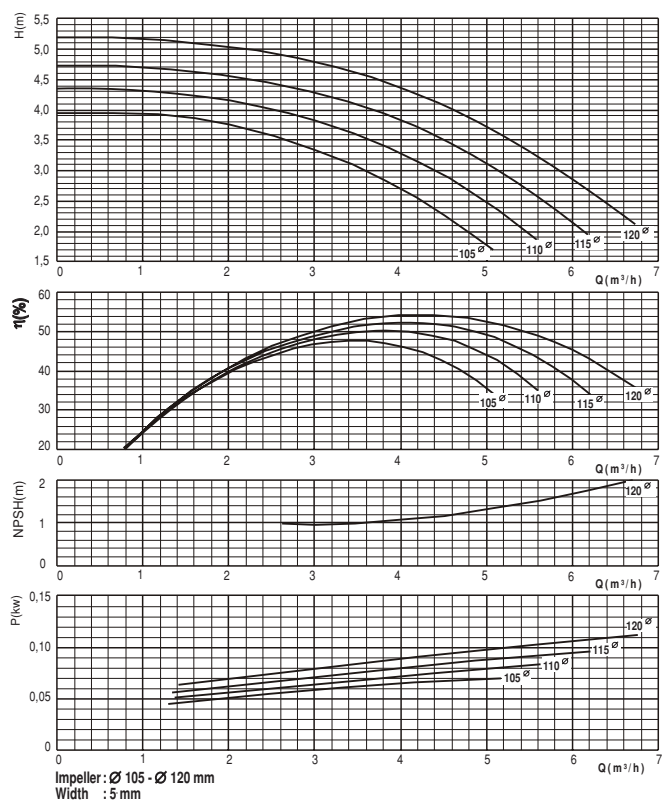
2900 1/min



Important : Above performance curves are valid for one stage of WKL

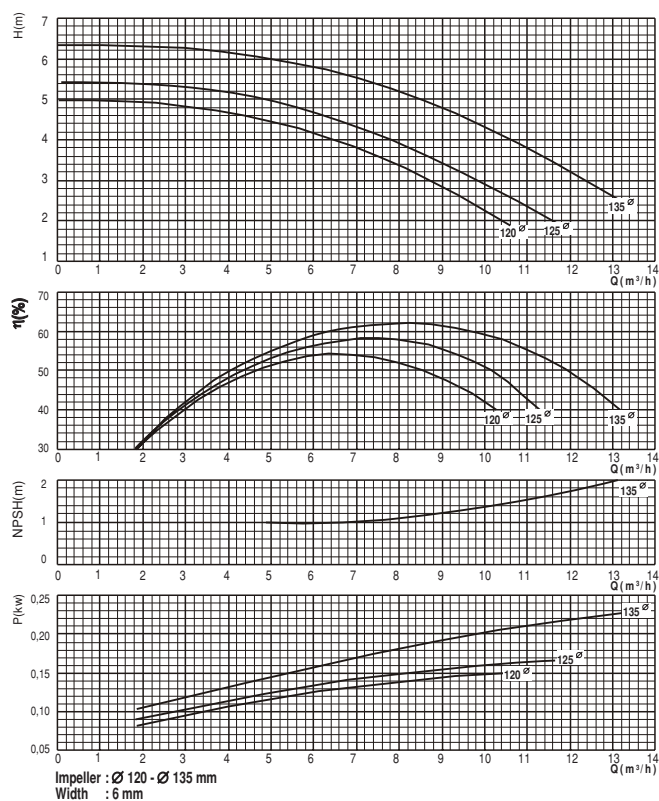
WKL 32

1450 1/min



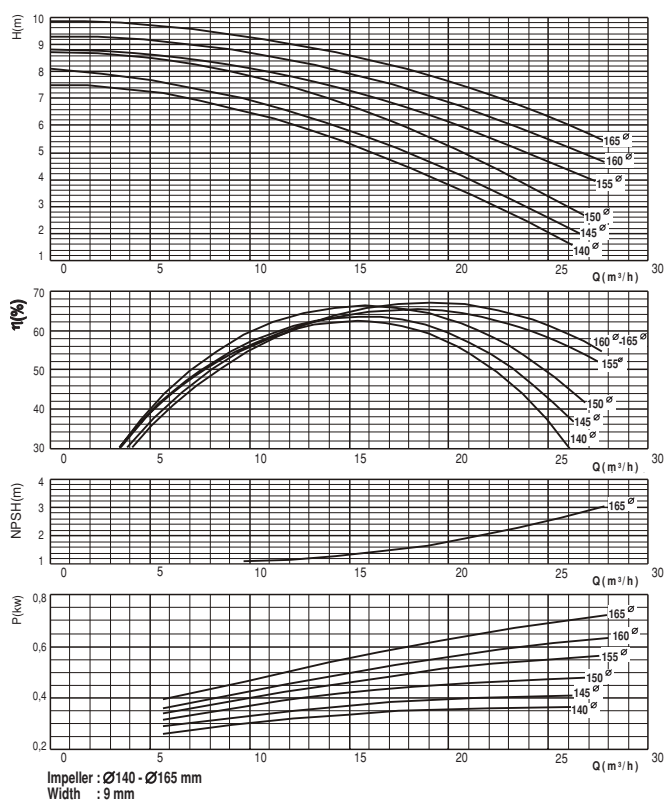
WKL 40

1450 1/min



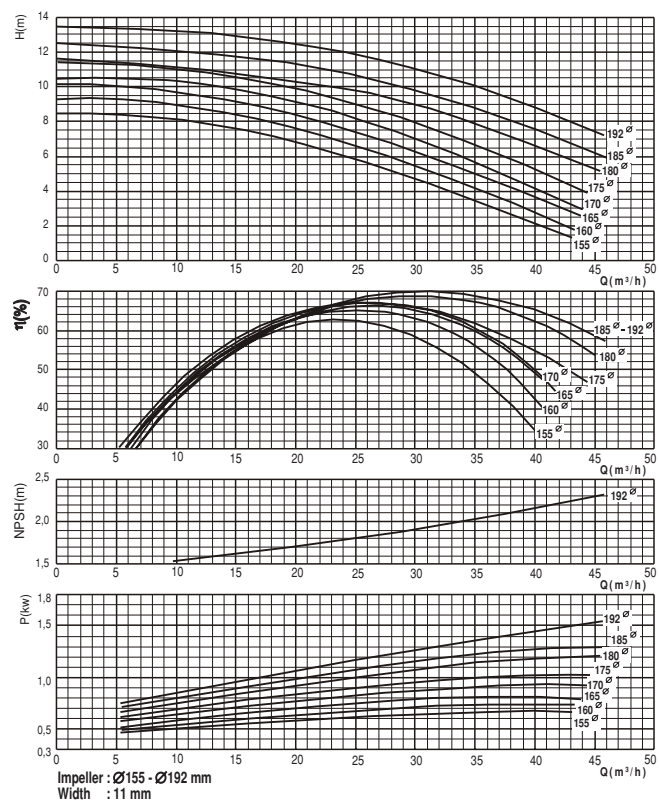
WKL 50

1450 1/min



WKL 65

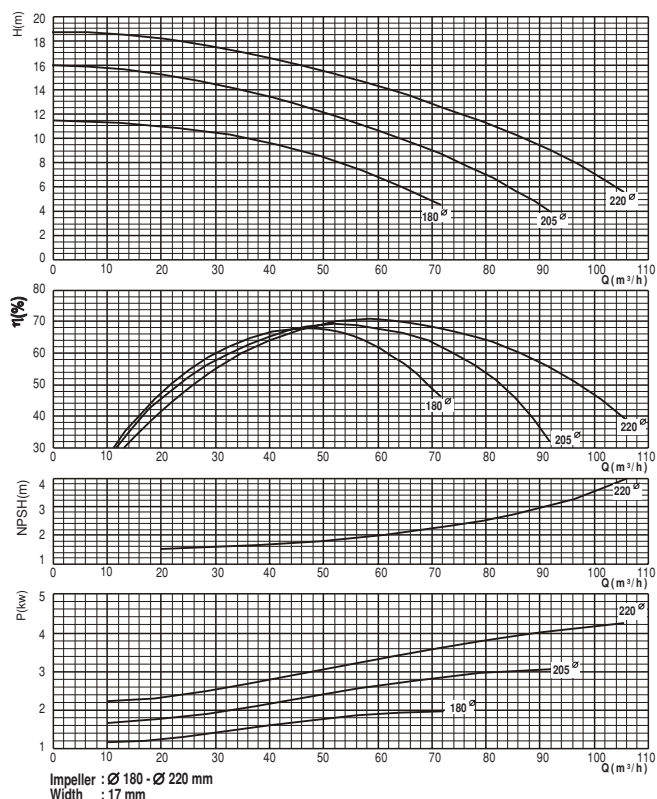
1450 1/min



Important : Above performance curves are valid for one stage of WKL

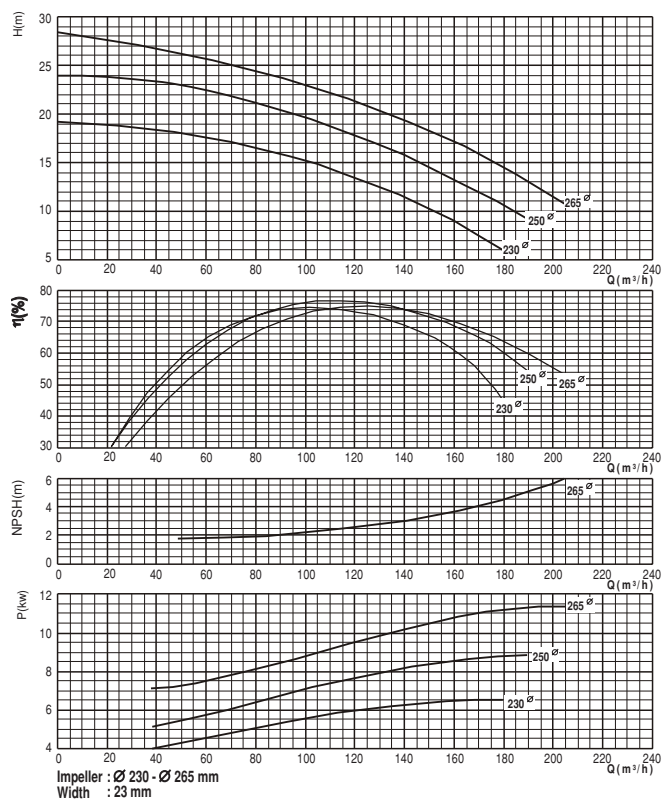
WKL 80

1450 1/min



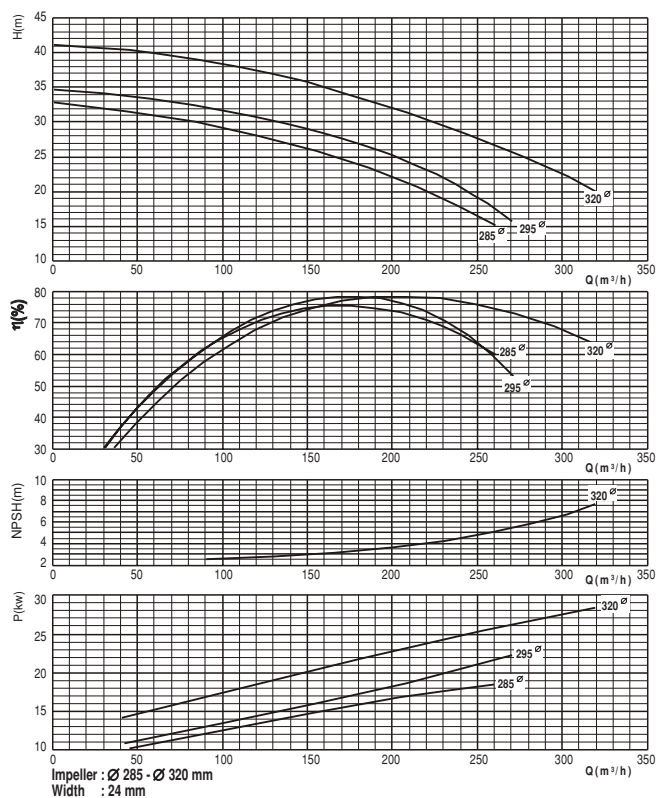
WKL 100

1450 1/min



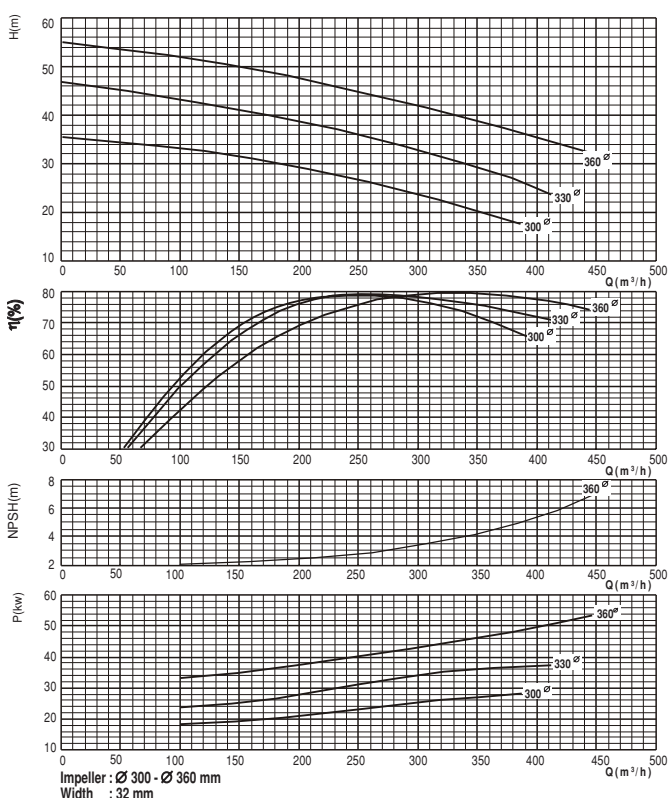
WKL 125

1450 1/min

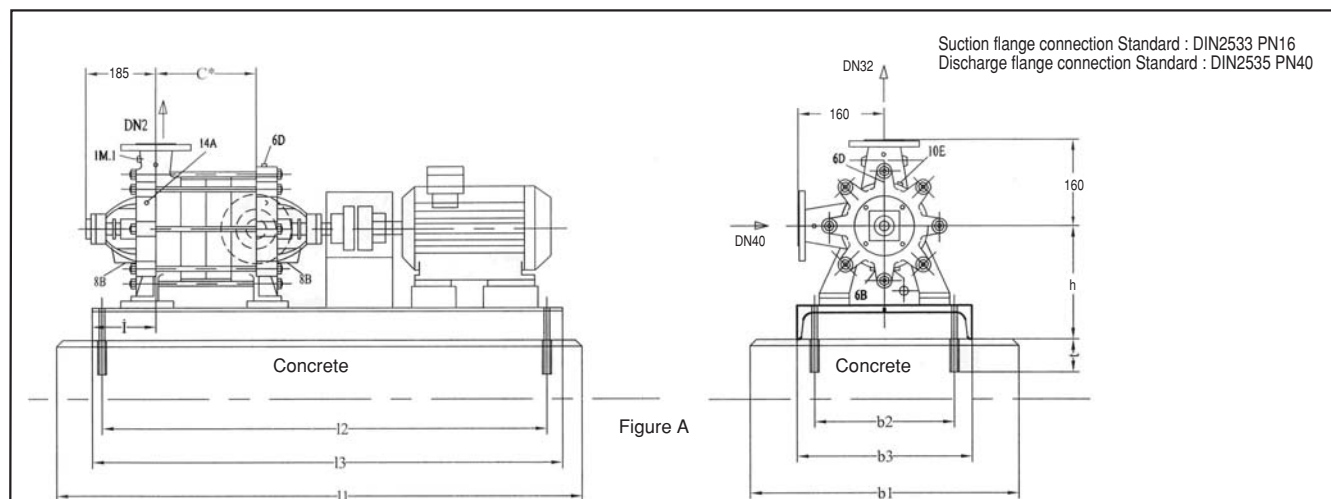


WKL 150

1450 1/min



Important : Above performance curves are valid for one stage of WKL

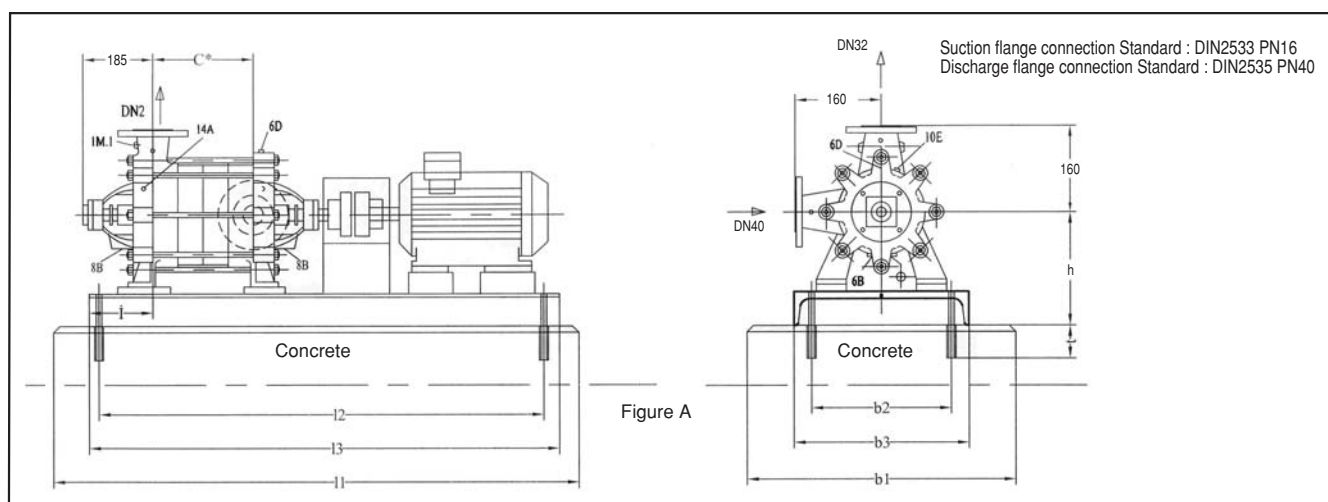
WKL 32


WKL	KW 1450 2900		IEC	L ₁	L ₂	L ₃	l	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg
32/01	0.12		63M	860	650	710	90	450	240	300	205	29	69
	0.18												70
	0.25												71
	0.37		80M										74
		0.55											76
		0.75											
32/02		1.1		860	650	710	90	450	240	300	205	34	
	0.12		63M										74
	0.18		71M										75
	0.25												76
	0.37												79
		0.75	80M										81
		1.1											83
		1.5											86
32/03		2.2	90 L	950	740	800	90	450	240	300	205	39	
	0.25		71M										80
	0.37		80M										81
	0.55												88
	0.75												89
		1.5	90S										92
		2.2	90 L										95
		3.0	100 L										101
32/04			71M	950	740	800	90	450	240	300	205	44	89
	0.25												90
	0.37												93
	0.55		94										
	0.75		80M	1050	840	900					212	44	105
		2.2	90 L										111
		3	100 L										118
		4	112M										
32/05			71M	950	740	800	100	450	240	300	205	49	94
	0.25												95
	0.37												100
	0.55		101										
	0.75		80M	1150	940	1000					215	49	120
		3	100L										127
		4	112M										137
		5.5	132S										146
32/06		7.5		1050	840	900	100	450	240	300	205	54	148
	0.55		80M										157
	0.75		100L										
		3	100L										125
		4	112M	1270	1060	1120					215	54	132
		5.5	132S										148
		7.5											157

t: 250 mm
fig 0: Bareshaft pump
fig 3: Pump+Motor+Coupling+Baseplate
Anchor bolts: M16X250

	Connections G= ISO 228/1		WKL 32
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	1/8"
Barrier liquid suction	10 E	G	1/8"
Medium drainage	6 B	G	1/8"
Medium filling and air vent	6 D	G	1/4"
Leakage drainage	8 B	G	1/2"

WKL 32



WKL	KW 1450 2900		IEC	L ₁	L ₂	L ₃	l	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg
32/07	0.55		80M	1050	840	900	100	450	240	300	205	59	113
	0.75			1150	940	1000							114
	1.1		90S	1270	1060	1120					215	59	121
		4	112M								235	59	143
		5.5	132S								235	59	153
	7.5	235		59	162								
32/08	0.55		80M	1150	940	1000	100	450	240	300	235	64	122
	0.75												90S
	1.1		112M	1270	1060	1120					215	64	136
		4	132S								235	64	158
		5.5									235	64	168
	7.5	235	64	177									
32/09	0.55		80M	1150	940	1000	100	450	240	300	205	69	127
	0.75												90S
	1.1		112M	1270	1060	1120					215	69	137
		4	132S								235	69	153
		5.5		160M	235	69					169		
		7.5	260		69	178							
		11	260		69	205							
	15	260	69	214									
32/10	0.55		80M	1270	1060	1120	100	450	240	300	205	74	138
	0.75												90S
	1.1		132S	1400	1190	1250					235	74	143
		5.5											235
		7.5	160M	1550	1340	1400					260	74	184
		11											260
	15	260	74	220									
32/11	1.1		90S	1270	1060	1120	100	450	240	300	205	79	147
	1.5		90L										205
		5.5	132S	1450	1240	1300					235	79	181
		7.5					235	79	190				
		11	160M	1600	1390	1450	270	79	217				
	15	270							79	226			
32/12	1.1		90S	1400	1190	1250	100	450	240	300	205	84	158
	1.5		90L										205
		5.5	132S	1550	1340	1400					235	84	191
		7.5					235	84	200				
		11	160M	1600	1390	1450	270	84	222				
	15	270							84	231			

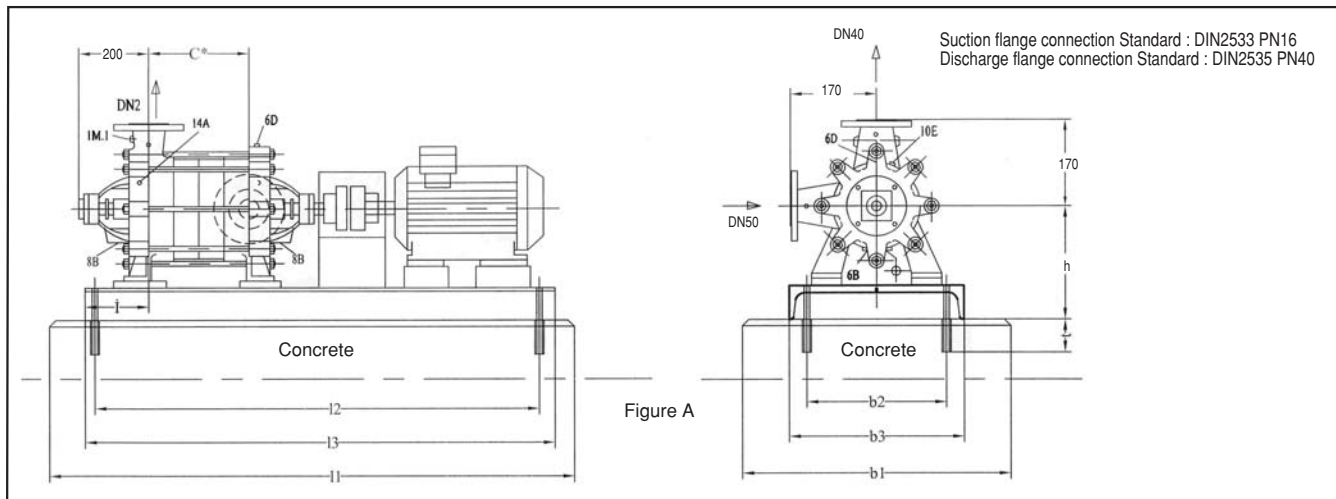
t: 250 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts: M16X250

	Connections		WKL 32
	G	ISO 228/1	
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	1/8"
Barrier liquid suction	10 E	G	1/8"
Medium drainage	6 B	G	1/8"
Medium filling and air vent	6 D	G	1/4"
Leakage drainage	8 B	G	1/2"

WKL 40


WKL	KW 1450 2900		IEC	L ₁	L ₂	L ₃	l	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg				
40/01	0,12		63M	860	650	710	90	450	240	300	215	42	82				
	0,18												82				
		0,75	80M										87				
		1,1	90S										89				
		1,5	90L										91				
		2,2											94				
40/02	0,25		71M	860	650	710	90	450	240	300	215	47	88				
	0,37		80M										89				
	0,55												92				
	0,75		90L										93				
		2,2	950	740	800	103											
		3				100L							109				
		4				112M							116				
40/03	0,55		80M	950	740	800	90	450	240	300	215	52	101				
	0,75		100L										102				
		3	112M	1050	840	900							119				
		4	112M										126				
		5,5	132S								232	52	136				
		7,5		145													
40/04	0,55		80M	950	740	800	100	450	240	300	215	57	106				
	0,75		90S										107				
		1,1	112M	1150	940	1000							115				
		4	112M										135				
		5,5	132S								232	57	146				
		7,5		155													
40/05	0,55		80M	1050	840	900	100	450	240	300	215	62	116				
	0,75		90S										117				
		1,1	90L										120				
		1,5	90L										123				
		5,5	132S	1270	1060	1120					100	450	240	300	232	62	146
		7,5															155
		11	160M	1400	1190	1250					100	510	300	360	270	62	186
	15	196															
40/06	1,1		90S	1150	940	1000	100	450	240	300	215	67	129				
	1,5		90L										132				
	2,2		100L										143				
	3			146													
		5,5	132S	1270	1060	1120					100	450	240	300	232	67	161
		7,5															170
		11	160M	1400	1190	1250					100	510	300	360	270	67	195
		15															204

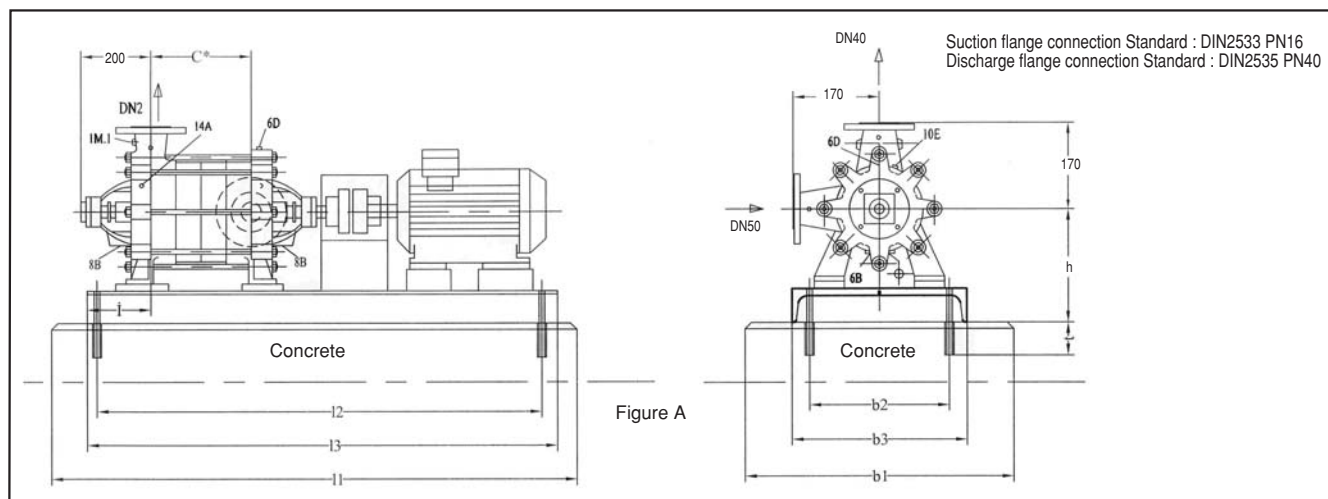
t: 250 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts: M16X250

	Connections		WKL 40
	G=	ISO 228/1	
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	1/8"
Barrier liquid suction	10 E	G	1/8"
Medium drainage	6 B	G	1/8"
Medium filling and air vent	6 D	G	3/8"
Leakage drainage	8 B	G	1/2"

WKL 40


WKL	KW 1450 2900		IEC	L ₁	L ₂	L ₃	i	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg									
40/7	1,1		90S	1150	940	1000	100	450	240	300	215	72	134									
	1,5		90L										137									
	2,2		100L										1270	1060	1120	148						
	3			151																		
		5,5	132S	1350	1140	1200	100	450	240	300	232	72	169									
		7,5											178									
		11	160M	1450	1240	1300	100	510	300	360	270	72	213									
		15											221									
40/8	1,1		90S	1270	1060	1120	100	450	240	300	215	77	145									
	1,5		90L										148									
	2,2		100L										1500	1290	1350	100	510	300	360	270	77	153
	3																					156
		11	160M	1500	1290	1350	100	510	300	360	270	77	195									
		15											204									
40/9	1,5		90L	1270	1060	1120	100	450	240	300	215	82	153									
	2,2		100L										1350	1140	1200	161						
	3															164						
		11	160M	1550	1340	1400							100	510	300	360	270	82	223			
		15					232															
		18,5					160L	241														
40/10	1,5		90L	1350	1140	1200	100	450	240	300	215	87							161			
	2,2		100L										1400	1190	1250	169						
	3															172						
		11	160M	1600	1390	1450							100	510	300	360	270	87	230			
		15					239															
		18,5					160L	248														
40/11	1,5		90L	1400	1190	1250	100	450	240	300	215	92							169			
	2,2		100L										1450	1240	1300	176						
	3															179						
40/12	2,2		100L	1500	1290	1350							100	450	240	300	215	97	179			
	3						186															
	4						112M	193														

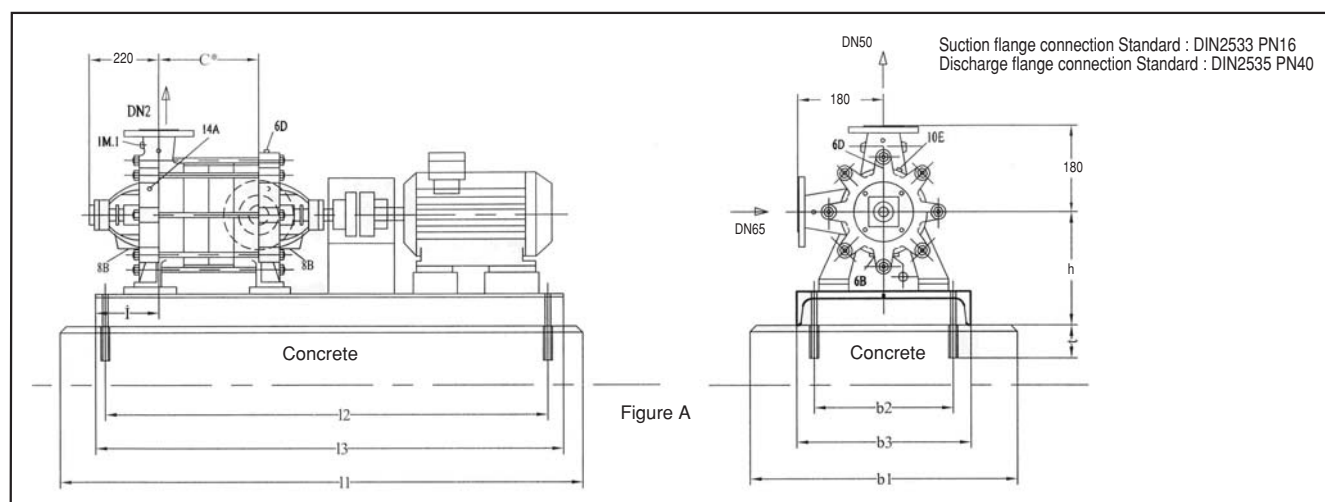
t: 250 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts: M16X250

	Connections G=	WKL 40
Pressure gauge connection	1M.1 G	1/2"
Barrier liquid discharge	14 A G	1/8"
Barrier liquid suction	10 E G	1/8"
Medium drainage	6 B G	1/8"
Medium filling and air vent	6 D G	3/8"
Leakage drainage	8 B G	1/2"

WKL 50


WKL	KW		IEC	L ₁	L ₂	L ₃	l	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg									
	1450	2900																				
50/01	0.25		71M	860	650	710	100	450	240	300	235	53	94									
	0.37												95									
	0.55												102									
	0.75		80M	950	740	800							103									
		3	100L										115									
		4	112M										124									
		5.5	132S	1000	790	850							137									
		7.5											900	146								
50/02	0.55		80M	950	740	800	112	450	240	300	235	63	112									
	0.75												90S	113								
	1.1												90L	118								
	1.5		1000	790	850	121																
		5.5	132S	1150	940	1000							151									
		7.5											160									
		11											160M	1270	1060	1120	112	510	300	360	270	63
		15	195																			
50/03	1.1		90S	1050	840	900	112	450	240	300	235	73	131									
	1.5		90L										134									
	2.2		100L										143									
	3		1150	940	1000	146																
		11	160M	1350	1140	1200							112	510	300	360	270	73	199			
		15																	208			
		18.5																	160L	217		
		22	180M	1450	1240	1300							112	550	320	400	290	73	244			
50/04	1.5		90L	1150	940	1000	112	450	240	300	235	83	148									
	2.2		100L										1350	1140	1200	112	510	300	360	270	83	163
	3																					166
	4																					112M
		11	160M	1500	1290	1350	112	550	320	400	290	83	209									
		15											218									
		18.5											160L	227								
		22	180M	1550	1340	1400							284									
	30	200L	1550	1340	1400	112	550	320	400	290	83	352										
	37											372										
50/05	2.2		100L	1270	1060	1120	112	450	240	300	235	93	169									
	3												172									
	4												179									
		11	160M	1400	1190	1250							112	550	300	360	270	93	219			
		15					228															
		18.5					160L	237														
		22	180M	1550	1340	1400	295	93	297													
		30	200L	1600	1390	1450			112	550	320	400	315	93	365							
	37	385																				

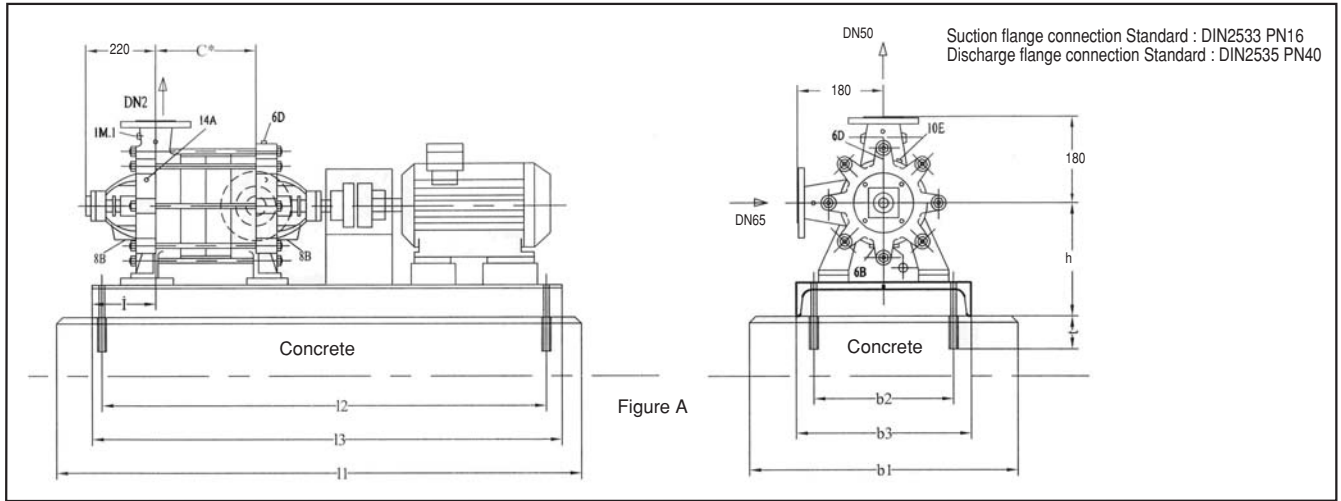
t: 250 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts: M16X250

	Connections G=		WKL
	ISO 228/1		50
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	1/8"
Barrier liquid suction	10 E	G	1/8"
Medium drainage	6 B	G	3/8"
Medium filling and air vent	6 D	G	3/8"
Leakage drainage	8 B	G	1/2"

WKL 50


WKL	KW 1450 2900		IEC	L ₁	L ₂	L ₃	l	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg
50/06	2.2		100L	1270	1060	1120	112	450	240	300	235	103	179
	3												182
	4		112M										189
	5.5		132S	1350	1140	1200							202
		18.5	160L	1500	1290	1350		450	300	360	270	103	257
		22	180M	1600	1390	1450		550	320	400	295	103	310
		30	200L	1650	1440	1500					315	103	379
		37											399
50/07	2.2		100L	1350	1140	1200	112	450	240	300	235	113	192
	3												195
	4		112M										202
	5.5		132S	1400	1190	1250							215
		18.5	160L	1550	1340	1400		510	300	360	270	113	270
		22	180M	1650	1440	1500		550	320	400	275	113	324
		30	200L	1700	1490	1550		550	320	400	315	113	393
		37											413
		45	225M	1600	1200	1450		700	500	550	325	113	423
50/08	2.2		100L	1350	1140	1200	112	450	240	300	235	123	202
	3												205
	4		112M										1400
	5.5		132S	1450	1240	1300							225
	7.5		132M										233
50/09	4		112M	1450	1240	1300	112	450	240	300	235	133	227
	5.5		132S										237
	7.5		132M										245
50/10	4		112M	1500	1290	1350	112	450	240	300	235	143	239
	5.5		132S										249
	7.5		132M										257
		11		160M	1650	1440		1500	510	300	360	270	143

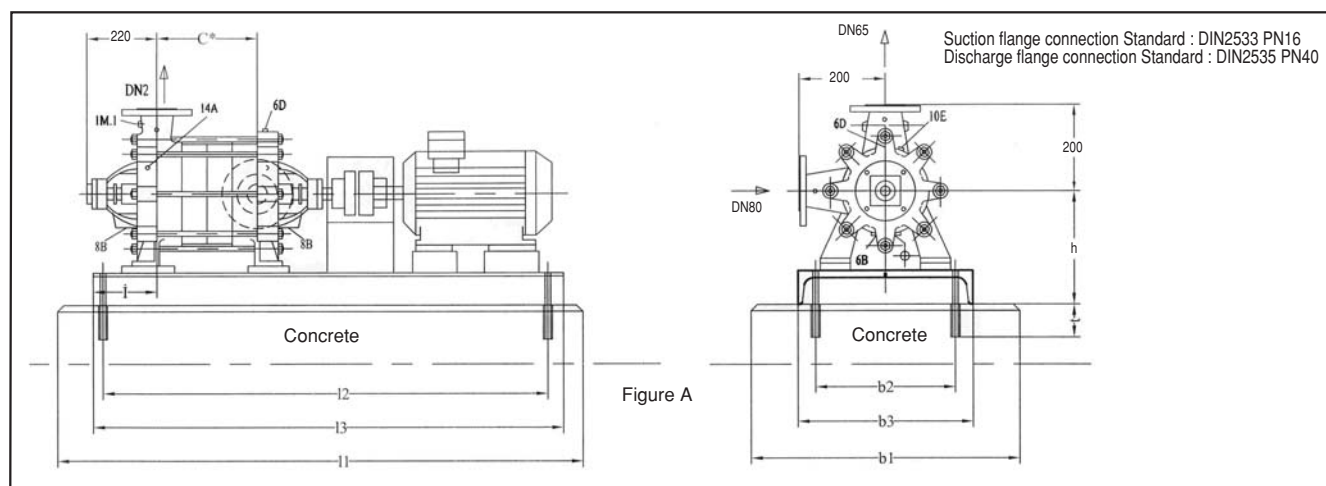
t: 250 mm

fig 0: Çıplak Pompa

fig 3: Pompa+Motor+Kaplin+Kaide

Ankraj Saplamaları : M16X250

	Bağlantılar	G=	WKL
		ISO 228/1	50
Monometre Bağlantısı	1M.1	G	1/2"
Sızdırmazlık Sıvı Çıkışı	14 A	G	1/8"
Sızdırmazlık Sıvı Girişi	10 E	G	1/8"
Akışkan Drenajı	6 B	G	3/8"
Akışkan Doldurma ve Hava Alma	6 D	G	3/8"
Sızıntı Drenajı	8 B	G	1/2"

WKL 65


WKL	KW 1450 2900		IEC	L ₁	L ₂	L ₃	l	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg				
65/01	0.55		80M	950	740	800	112	510	300	360	265	65	127				
	0.75												128				
	1.1												131				
	1.5												134				
	2.2		100L	1000	790	850							143				
	3												146				
		5.5	132S	1050	840	900							164				
		7.5											173				
		11									207						
	15	160M	1270	1060	1120		270	65	216								
65/02	1.5		90L	1050	840	900	112	510	300	360	265	82	151				
	2.2		100L										163				
	3												166				
	4												179				
		11	160M	1270	1060	1120							270	82	224		
		15													233		
		18.5									242						
		22	180M	1400	1190	1250						550	320	400	305	82	277
	65/03	2.2		100L	1150	940					1000	112	510	300	360	265	99
3			189														
4			196														
5.5			214														
7.5			222														
		11	160M	1350	1140	1200	270	99	246								
		15							255								
		18.5							264								
		22	180M	1450	1240	1300		295	99	297							
		30	200L	1550	1340	1400	315	99	368								
	37	388															
65/04	2.2		100L	1270	1060	1120	112	510	300	360	265	116	199				
	3												214				
	4												221				
	5.5		231														
	7.5		239														
	11		160M	1400	1190	1250								270	116	271	
		22	180M	1500	1290	1350						295	116	317			
		30	200L	1600	1390	1450					550	320	400	315	116	388	
		37														408	
		45														225M	1550
65/05	4		112M	1270	1060	1120	112	510	300	360	265	133	216				
	5.5		132S	1350	1140	1200							253				
	7.5		132M	1450	1240	1300					270	133	261				
	11		160M	1600	1390	1450							291				
		30	200L	1600	1390	1450		550	320	400	315	133	405				
		37											425				
		45											225M				710
		55	250M	1650	1250	1500			750	540	600	350	133	475			

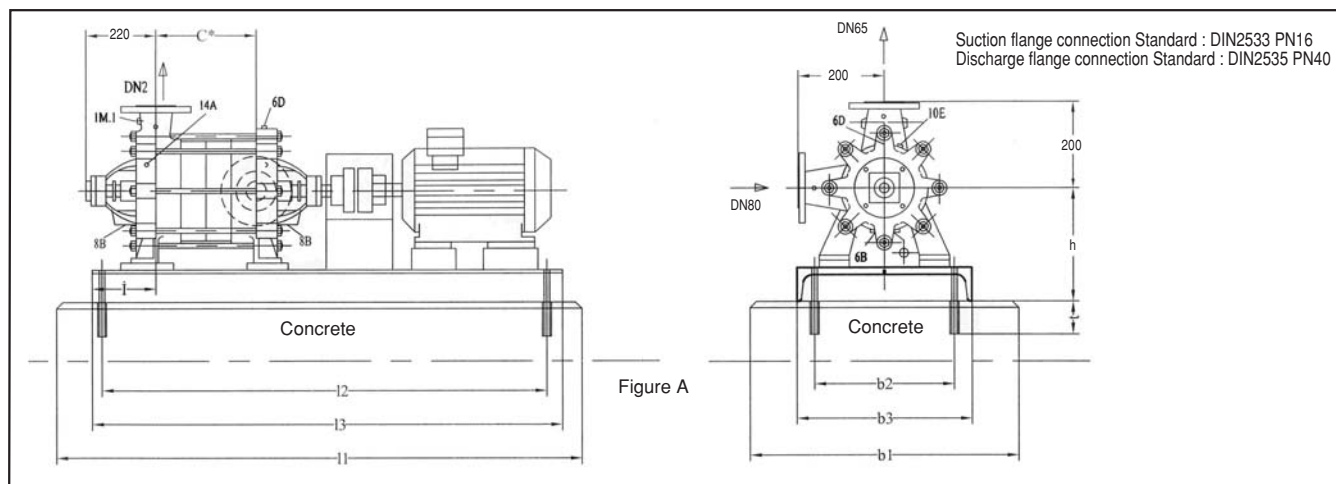
t: 320 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts : M20X320

	Connections		WKL 65
	G=	ISO 228/1	
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	1/8"
Barrier liquid suction	10 E	G	1/8"
Medium drainage	6 B	G	3/8"
Medium filling and air vent	6 D	G	3/8"
Leakage drainage	8 B	G	1/2"

WKL 65


WKL	KW		IEC	L ₁	L ₂	L ₃	l	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg
	1450	2900											
65/06	5.5		132S	1350	1140	1200	112	510	300	360	265	150	238
	7.5		132M	1400	1190	1250							242
	11		160M	1550	1340	1400					270	150	254
	15		160L										257
65/07	5.5		132S	1400	1190	1250	112	510	300	360	265	167	270
	7.5		132M	1450	1240	1300							276
	11		160M	1550	1340	1400					270	167	297
	15		160L										306
65/08	7.5		132M	1500	1290	1350	112	510	300	360	265	184	340
	11		160M	1650	1440	1500					270	184	359
	15		160L										291
	18.5		180M	1750	1540	1600					290	184	309
65/09	7.5		132M	1550	1340	1400	112	510	300	360	265	201	316
	11		160M	1700	1490	1550					270	201	333
	15		160L										370
	18.5		180M	1800	1590	1650		550	320	400	295	201	385
	22		180L										394
65/10	7.5		132M	1650	1440	1500	112	510	300	360	265	218	429
	11		160M	1750	1540	1600					270	218	331
	15		160L										346
	18.5		180M	1850	1640	1700		550	320	400	290	218	359
	22		180L										369

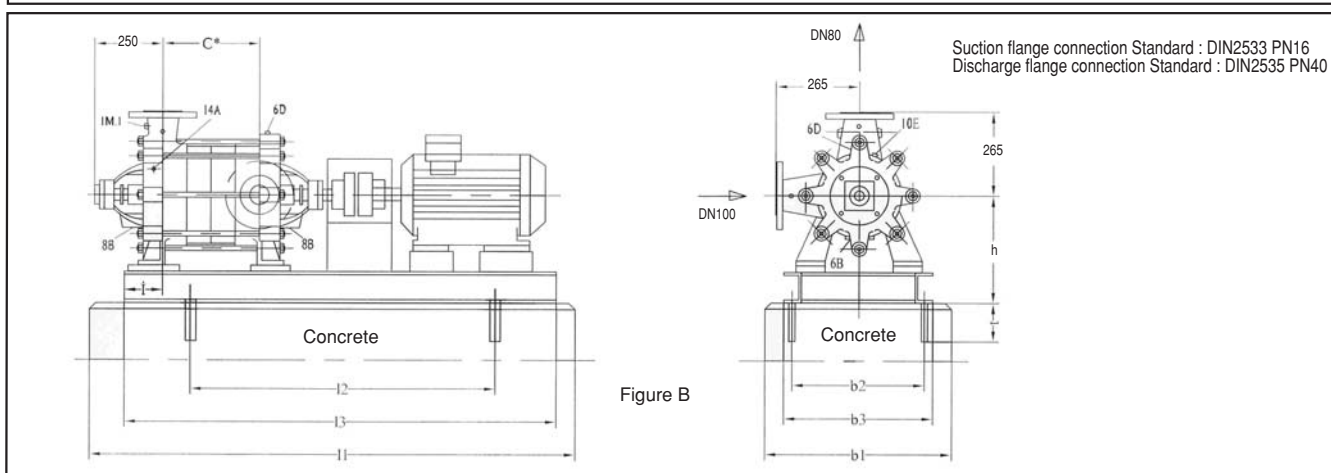
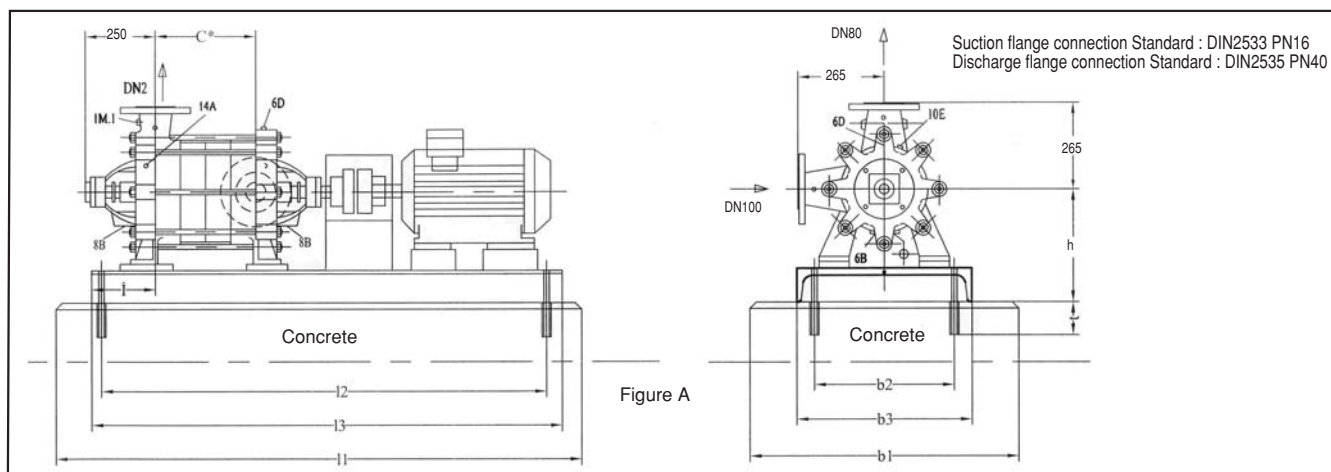
t: 320 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts : M20X320

	Connections		WKL
	G=	ISO 228/1	
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	1/8"
Barrier liquid suction	10 E	G	1/8"
Medium drainage	6 B	G	3/8"
Medium filling and air vent	6 D	G	3/8"
Leakage drainage	8 B	G	1/2"

WKL 80


WKL	1450 KW	2900	FIG	IEC	L ₁	L ₂	L ₃	i	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg
80/01	2.2		A	100L	1050	840	900	112	550	320	400	325	135	226
	3		A	100L	1050	840	900		550	320	400	325	135	229
	4		A	112M	1050	840	900		550	320	400	325	135	236
	5.5		A	132S	1100	890	950		550	320	400	325	135	250
		15	A	160M	1270	1060	1120		550	320	400	325	135	300
		18.5	A	160L	1270	1060	1120		550	320	400	325	135	309
		22	A	180M	1270	1060	1120		550	320	400	325	135	336
		30	A	200L	1350	1140	1200		550	320	400	325	135	391
80/02		37	A	200L	1350	1140	1200	112	550	320	400	325	135	411
	3		A	100L	1100	890	950		550	320	400	325	162	260
	4		A	112M	1100	890	950		550	320	400	325	162	267
	5.5		A	132S	1150	940	1000		550	320	400	325	162	280
	7.5		A	132M	1200	990	1050		550	320	400	325	162	292
	11		A	160M	1300	1090	1150		550	320	400	325	162	323
		22	A	180M	1450	1240	1300		550	320	400	325	162	341
		30	A	200L	1450	1240	1300		550	320	400	325	162	426
		37	A	200L	1450	1240	1300	125	550	320	400	325	162	446
		45	B	225M	1500	1050	1350		730	540	580	325	162	440
		55	B	250M	1600	1150	1450		790	600	640	390	162	495
		75	B	280S	1650	1200	1500		870	670	720	400	162	825

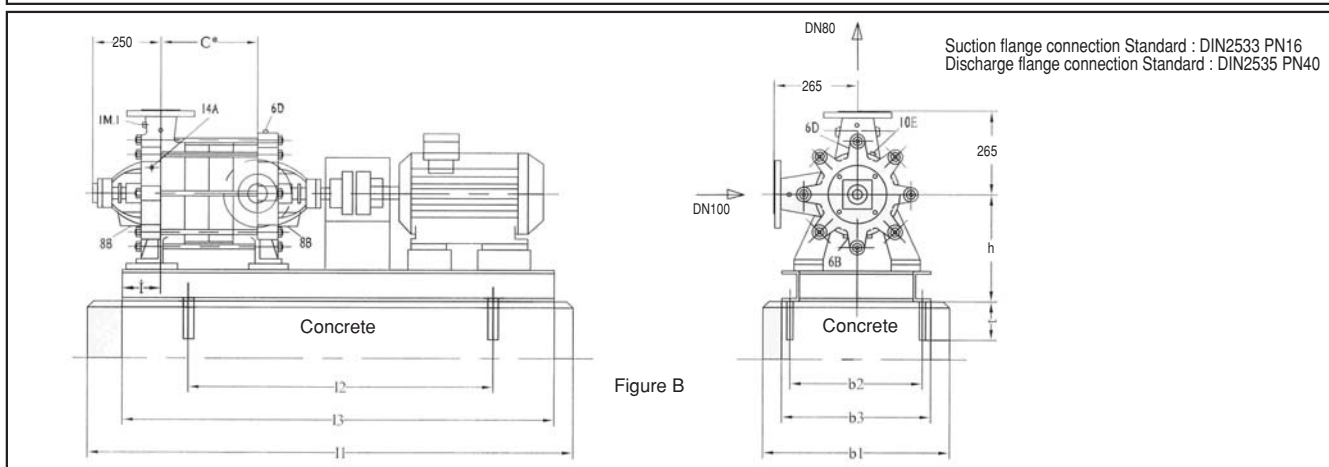
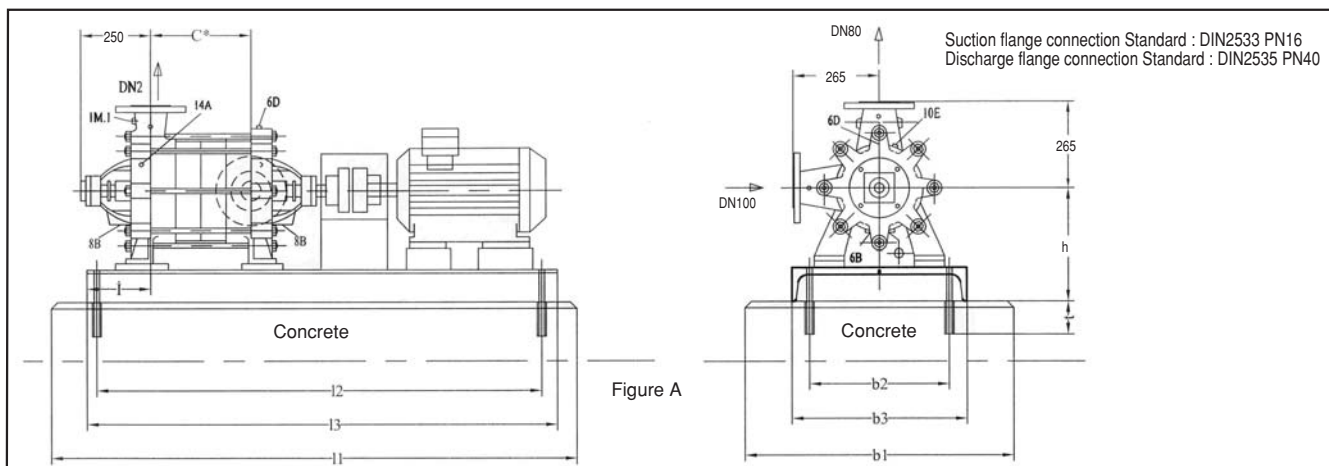
t: 320 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts : M20X320

	Connections		WKL
	G _{1/2}	ISO 228/1	80
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	3/8"
Barrier liquid suction	10 E	G	3/8"
Medium drainage	6 B	G	1/2"
Medium filling and air vent	6 D	G	1/2"
Leakage drainage	8 B	G	1/2"

WKL 80


WKL	KW		FIG	IEC	L ₁	L ₂	L ₃	i	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg
80/03	5.5		A	132S	1250	1040	1100	112	550	320	400	325	189	315
	7.5		A	132M	1250	1040	1100		550	320	400	325	189	323
	11		A	160M	1400	1190	1250		550	320	400	325	189	358
	15		A	160L	1450	1240	1300		550	320	400	325	189	374
		45	B	225M	1500	1050	1350	125	730	540	580	325	189	465
		55	B	250M	1600	1150	1450		790	600	640	370	189	525
		75	B	280S	1700	1250	1550		870	670	720	400	189	850
		90	B	280M	1700	1250	1550		870	670	720	400	189	915
		110	B	315S	1800	1350	1650		880	690	730	455	189	1065
80/04	7.5		A	132M	1350	1140	1200	112	550	320	400	325	216	357
	11		A	160M	1500	1290	1350		550	320	400	325	216	389
	15		A	160L	1500	1290	1350		550	320	400	325	216	401
	18.5		A	180M	1550	1340	1400		550	320	400	325	216	433
		75	B	280S	1800	1350	1650	125	860	670	710	380	216	875
		90	B	280M	1800	1350	1650		860	670	710	400	216	945
		110	B	315S	1850	1400	1700		940	740	790	455	216	1095
		132	B	315M	1900	1450	1750		940	740	790	455	216	1200
		160	B	315L	1900	1450	1750		940	740	790	455	216	1310
80/05	11		A	160M	1550	1340	1400	112	550	320	400	325	243	423
	15		A	160L	1600	1390	1450		550	320	400	325	243	436
	18.5		A	180M	1650	1200	1500		550	320	400	325	243	467
	22		A	180L	1650	1440	1500		550	320	400	325	243	477
	30		A	200L	1650	1440	1500	125	550	320	400	325	243	514
		90	B	280M	1850	1400	1700		870	680	720	420	243	965
		110	B	315S	1950	1500	1800		940	740	790	455	243	1125
		132	B	315M	1950	1500	1800		940	740	790	455	243	1140
		160	B	315M	1950	1500	1800		940	740	790	455	243	1335

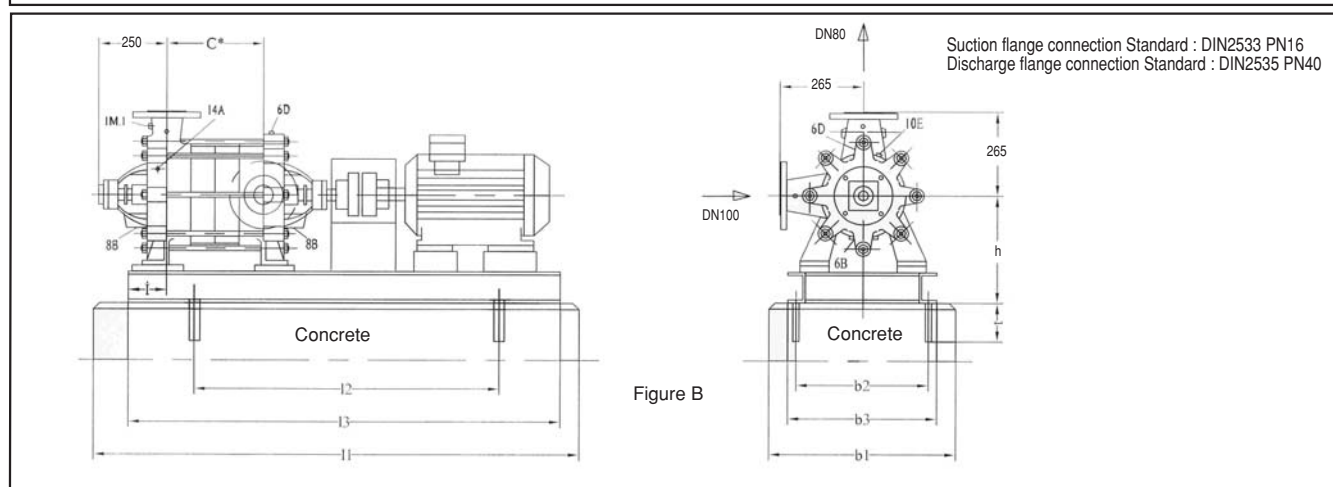
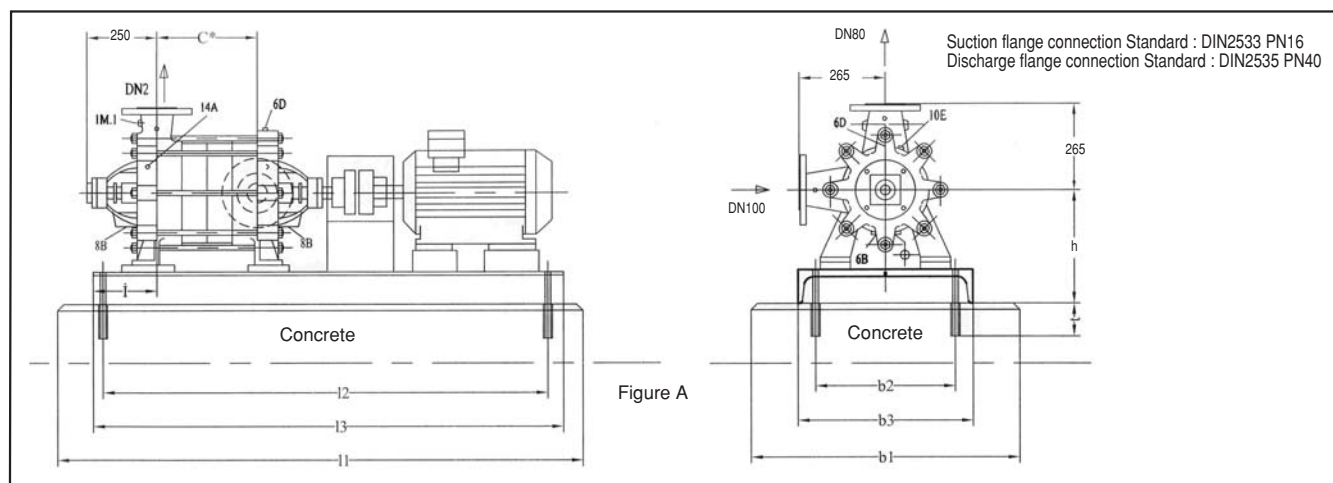
t: 320 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts : M20X320

	Connections		WKL
	G=	ISO 228/1	80
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	3/8"
Barrier liquid suction	10 E	G	3/8"
Medium drainage	6 B	G	1/2"
Medium filling and air vent	6 D	G	1/2"
Leakage drainage	8 B	G	1/2"

WKL 80


WKL	KW 1450	FIG	IEC	L ₁	L ₂	L ₃	i	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg
80/06	15	A	160L	1700	1490	1550	112	550	320	400	325	270	475
	18.5	A	180M	1750	1540	1600		550	320	400	325	270	507
	22	A	180L	1750	1540	1600		550	320	400	325	270	517
	30	A	200L	1750	1540	1600		550	320	400	325	270	554
80/07	15	A	160L	1750	1540	1600	112	550	320	400	325	297	506
	18.5	A	180M	1800	1590	1650		550	320	400	325	297	538
	22	A	180L	1800	1590	1650		550	320	400	325	297	548
	30	A	200L	1850	1640	1700		550	320	400	325	297	588
	37	B	225S	1900	1450	1750	125	730	540	580	365	297	615
80/08	18.5	A	180M	1900	1690	1750	112	550	320	400	325	324	572
	22	A	180L	1900	1690	1750		550	320	400	325	324	582
	30	A	200L	1950	1740	1800		550	320	400	325	324	623
	37	B	225S	1900	1450	1750	125	730	540	580	365	324	640
80/09	22	A	180L	2000	1790	1850	112	550	320	400	325	351	616
	30	A	200L	2000	1790	1850		550	320	400	325	351	653
	37	B	225S	2000	1550	1850		730	540	580	365	351	670
	45	B	225M	2100	1650	1950	125	730	540	580	365	351	715

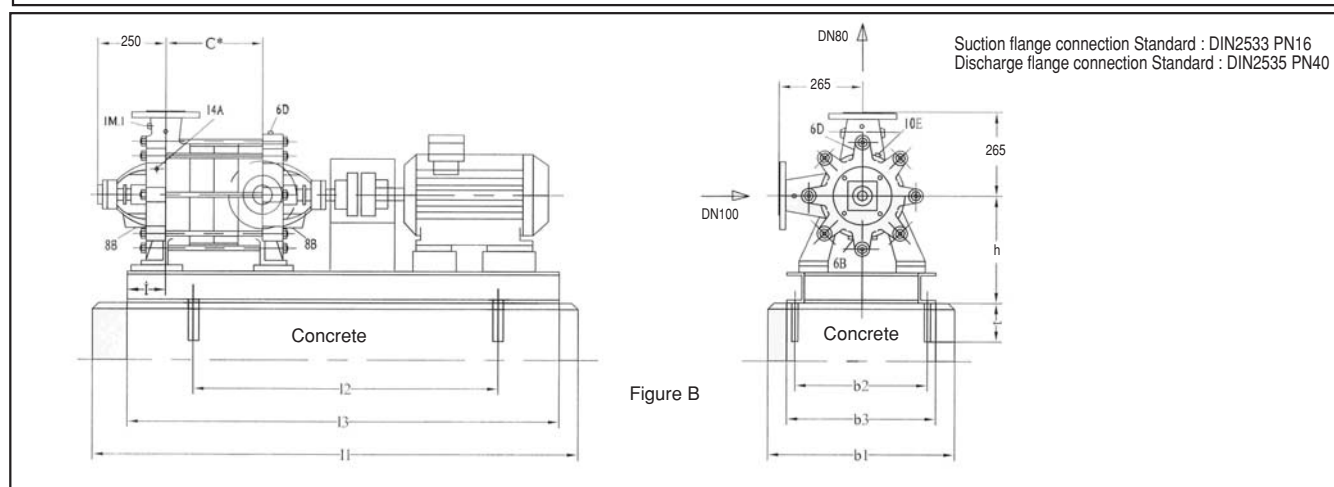
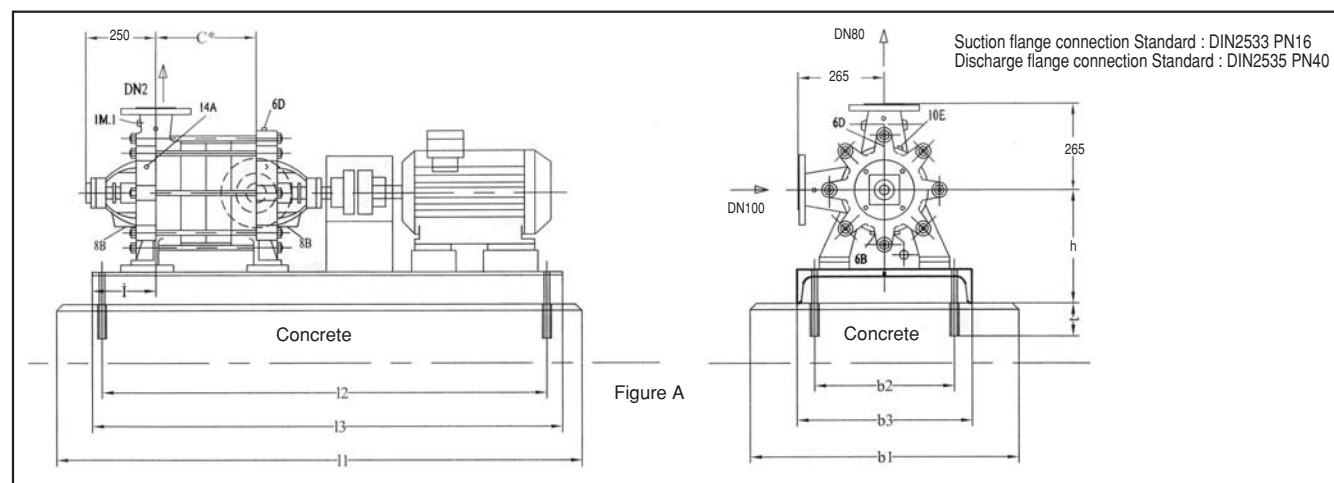
t: 320 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts : M20X320

	Connections G=		WKL
	ISO 228/1		80
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	3/8"
Barrier liquid suction	10 E	G	3/8"
Medium drainage	6 B	G	1/2"
Medium filling and air vent	6 D	G	1/2"
Leakage drainage	8 B	G	1/2"

WKL 80


WKL	KW 1450	FIG	IEC	L ₁	L ₂	L ₃	i	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg
80/10	22	A	180L	2050	1840	1900	112	550	320	400	325	378	642
	30	A	200L	2100	1890	1950		550	320	400	325	378	683
	37	B	225S	2100	1650	1950	125	730	540	580	365	378	732
	45	B	225M	2150	1700	2000		730	540	580	365	378	740
80/11	30	A	200L	2150	1940	2000	112	550	320	400	325	405	714
	37	B	225S	2250	1800	2100		730	540	580	365	405	730
	45	B	225M	2250	1800	2100		730	540	580	365	405	770
	55	B	250M	2250	1800	2100		790	600	640	390	405	800
80/12	30	A	200L	2250	2040	2100	112	550	320	400	325	432	748
	37	B	225S	2250	1800	2100		730	540	580	365	432	755
	45	B	225M	2350	1900	2200		730	540	580	365	432	800
	55	B	250M	2350	1900	2200		790	600	640	390	432	830
80/13	37	B	225S	2350	1900	2200	125	730	540	580	365	459	785
	45	B	225M	2350	1900	2200		730	540	580	365	459	825
	55	B	250M	2450	2000	2300		790	600	640	390	459	860
	75	B	280S	2550	2100	2400		870	670	720	420	459	1185

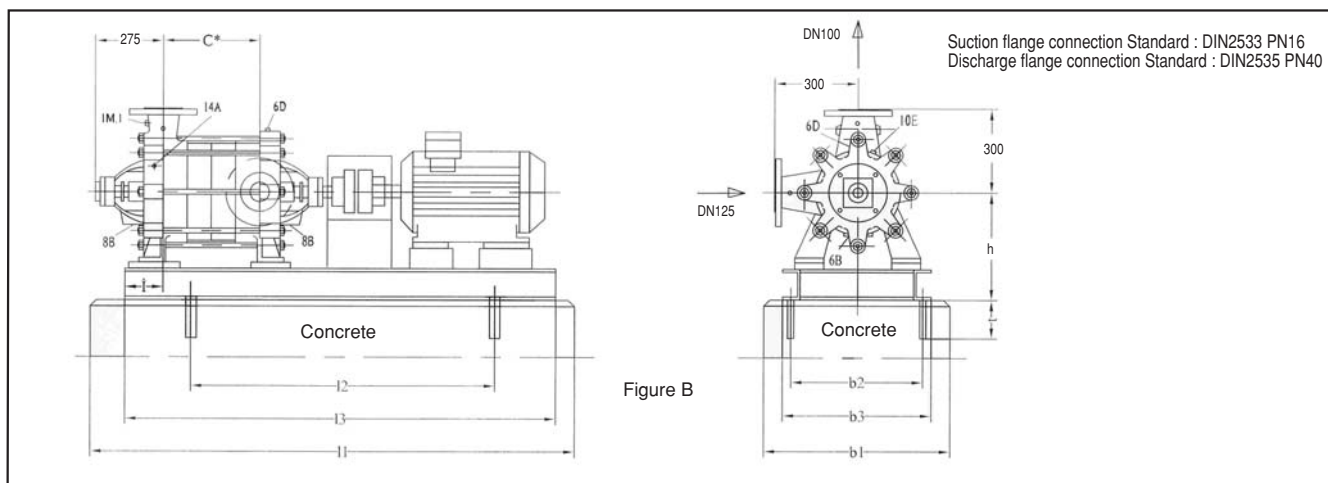
t: 320 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts: M20X320

	Connections		WKL 80
	G=	ISO 228/1	
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	3/8"
Barrier liquid suction	10 E	G	3/8"
Medium drainage	6 B	G	1/2"
Medium filling and air vent	6 D	G	1/2"
Leakage drainage	8 B	G	1/2"

WKL 100


WKL	KW 1450	IEC	L ₁	L ₂	L ₃	l	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg
100/01	5.5	132S	1200	750	1050	135	730	540	580	330	150	260
	7.5	132M	1200	750	1050		730	540	580	330	150	280
	11	160M	1300	850	1150		730	540	580	330	150	290
	15	160L	1300	850	1150		730	540	580	330	150	300
100/02	11	160M	1400	950	1250		730	540	580	330	210	350
	15	160L	1400	950	1250		730	540	580	330	210	360
	18.5	180M	1450	1000	1300		730	540	580	350	210	400
	22	180L	1450	1000	1300		730	540	580	350	210	410
	30	200L	1500	1050	1350		750	540	600	350	210	460
	18.5	180M	1550	1100	1400		750	540	600	350	270	470
100/03	22	180L	1550	1100	1400		750	540	600	350	270	475
	30	200L	1600	1150	1450		750	540	600	350	270	530
	37	225S	1670	1220	1520		750	540	600	350	270	580
	30	200L	1750	1300	1600		750	540	600	370	330	595
100/04	37	225S	1750	1300	1600		750	540	600	370	330	650
	45	225M	1800	1350	1650		750	540	600	370	330	710
	55	250M	1920	1470	1770		840	630	690	370	330	725
	37	225S	1900	1450	1750		750	540	600	370	390	720
100/05	45	225M	1900	1450	1750		750	540	600	370	390	760
	55	250M	1950	1500	1800		840	630	690	370	390	800
	75	280S	2100	1650	1950		910	700	760	420	390	1150
	45	225M	2000	1550	1850		750	540	600	370	450	830
100/06	55	250M	2150	1700	2000		840	630	690	370	450	860
	75	280S	2150	1700	2000		910	700	760	420	450	1200
	55	250M	2150	1700	2000		840	630	690	420	510	920
	75	280S	2250	1800	2100		910	700	760	420	510	1275
100/07	90	280M	2300	1850	2150		910	700	760	420	510	1450
	75	280S	2300	1850	2150		910	700	760	420	570	1330
	90	280M	2300	1850	2150		910	700	760	420	570	1510
100/08	110	315S	2350	1900	2200		910	700	760	420	570	1575
	75	280S	2450	2000	2300		910	700	760	420	630	1390
	90	280M	2500	2050	2350		910	700	760	420	630	1570
100/09	110	315S	2550	2100	2400		960	750	810	420	630	1650

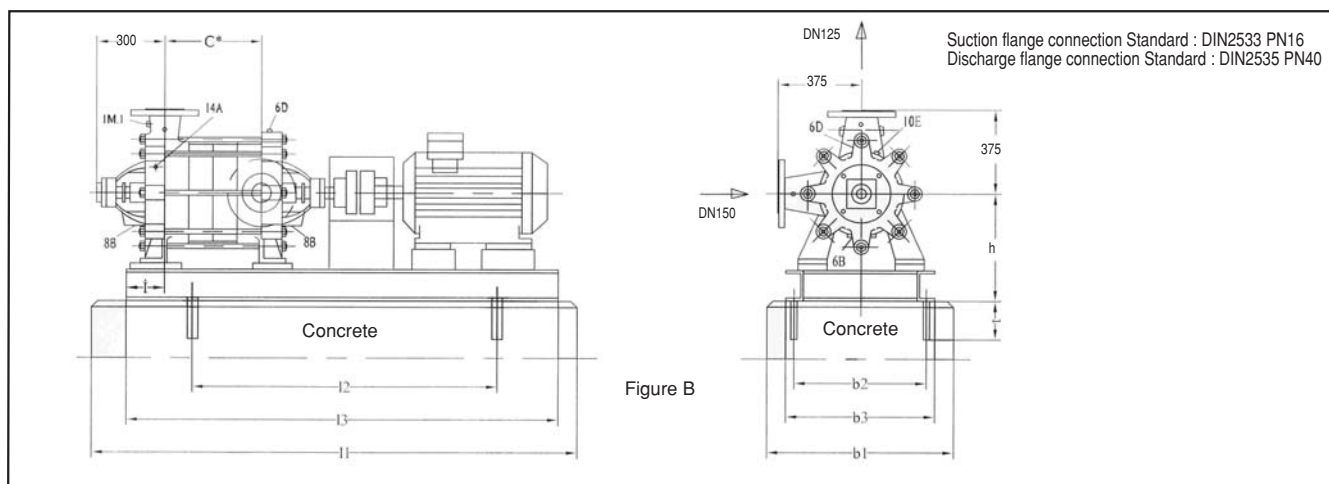
t: 320 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts : M20X320

	Connections G=		WKL
	ISO 228/1		100
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	3/8"
Barrier liquid suction	10 E	G	3/8"
Medium drainage	6 B	G	1/2"
Medium filling and air vent	6 D	G	1/2"
Leakage drainage	8 B	G	1/2"

WKL 125

Figure B

WKL	KW 1450	IEC	L ₁	L ₂	L ₃	l	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg
125/01	15	160L	1450	1000	1300	145	840	640	690	420	232	420
	18.5	180M	1450	1000	1300		840	640	690	420	232	445
	22	180L	1500	1050	1350		840	640	690	420	232	450
	30	200L	1550	1100	1400		840	640	690	420	232	500
125/02	18.5	180M	1550	1100	1400		840	640	690	420	346	560
	22	180L	1550	1100	1400		840	640	690	420	346	570
	30	200L	1600	1150	1450		840	640	690	420	346	620
	37	225S	1700	1250	1550		840	620	690	420	346	660
	45	225M	1700	1250	1550		840	640	690	420	346	720
	55	250M	1750	1300	1600		870	670	720	420	346	750
125/03	75	280S	1820	1370	1670		870	670	720	440	346	1100
	37	225S	1830	1380	1680		840	640	690	420	460	790
	45	225M	1850	1400	1700		840	640	690	420	460	835
	55	250M	1900	1450	1750		870	670	720	440	460	870
	75	280S	1950	1500	1800		870	670	720	440	460	1210
	90	280M	2000	1550	1850		870	670	720	440	460	1375
125/04	110	315S	2050	1600	1900		970	770	820	455	460	1500
	55	250M	2000	1550	1850		870	670	720	440	574	990
	75	280S	2050	1600	1900		870	670	720	440	574	1320
	90	280M	2100	1650	1950		870	670	720	440	574	1490
	110	315S	2150	1700	2000		970	770	820	455	574	1600
	132	315M	2200	1750	2050		970	770	820	455	574	1700
125/05	160	315M	2200	1750	2050		970	770	820	455	574	1800
	75	280S	2200	1750	2050		870	670	720	440	688	1450
	90	280M	2250	1800	2100		870	670	720	440	688	1620
	110	315S	2250	1800	2100		970	770	820	455	688	1700
	132	315M	2350	1900	2200		970	770	820	455	688	1800
	160	315M	2350	1900	2200		970	770	820	455	688	1900
125/06	90	280M	2350	1900	2200		870	670	720	440	802	1750
	110	315S	2400	1950	2250		970	770	820	455	802	1810
	132	315M	2450	2000	2300		970	770	820	455	802	1950
	160	315M	2450	2000	2300		970	770	820	455	802	2050
	185	315L	2500	2050	2350		970	770	820	455	802	2150
	200	315L	2500	2050	2350		970	770	820	455	802	2150

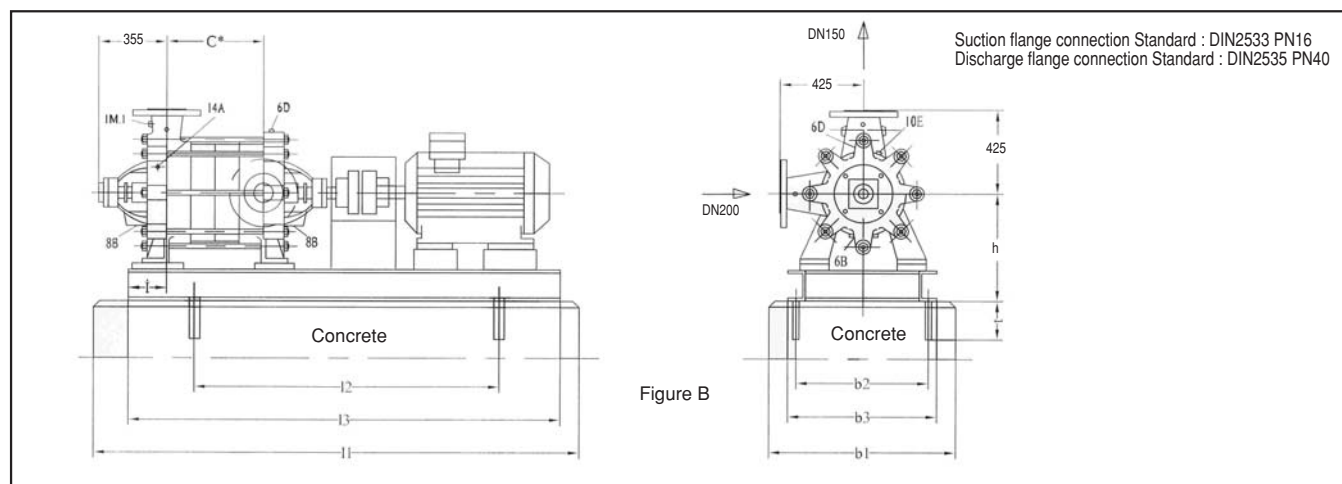
t: 320 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

Anchor bolts : M20X320

	Connections		WKL
	G=	ISO 228/1	125
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	3/8"
Barrier liquid suction	10 E	G	3/8"
Medium drainage	6 B	G	1/2"
Medium filling and air vent	6 D	G	1/2"
Leakage drainage	8 B	G	1/2"

WKL 150


WKL	KW 1450	IEC	L ₁	L ₂	L ₃	l	b ₁	b ₂	b ₃	h	fig 0 kg	fig 3 kg
150/01	30	200L	1700	1250	1550	165	970	770	820	490	635	950
	37	225S	1700	1250	1550		970	770	820	490	635	993
	45	225M	1700	1250	1550		970	770	820	490	635	1035
	55	250M	1750	1300	1600		970	770	820	490	635	1050
	75	280S	1800	1350	1650		970	770	820	490	635	1360
150/02	37	225S	1850	1400	1700		970	770	820	490	760	1125
	45	225M	1850	1400	1700		970	770	820	490	760	1165
	55	250M	1850	1400	1700		970	770	820	490	760	1200
	75	280S	1950	1500	1800		970	770	820	490	760	1500
	90	280M	2000	1550	1850		970	770	820	490	760	1670
	110	315S	2150	1700	2000		970	770	820	490	760	1750
	132	315M	2150	1700	2000		970	770	820	490	760	1850
	160	315M	2150	1700	2000		970	770	820	490	760	1950
150/03	75	280S	2150	1700	2000		970	770	820	490	885	1620
	90	280M	2150	1700	2000		970	770	820	490	885	1800
	110	315S	2300	1850	2150		970	770	820	490	885	1875
	132	315M	2300	1850	2150		970	770	820	490	885	1980
	160	315M	2300	1850	2150		970	770	820	490	885	2100
	185	315L	2370	1920	2220		970	770	820	490	885	2200
	200	315L	2370	1920	2220		970	770	820	490	885	2250
150/04	110	315S	2350	1900	2200		970	770	820	490	1010	2005
	132	315M	2350	1900	2200		970	770	820	490	1010	2120
	160	315M	2350	1900	2200		970	770	820	490	1010	2220
	185	315L	2500	2050	2350		970	770	820	490	1010	2325
	200	315L	2500	2050	2350		970	770	820	490	1010	2400
150/05	132	315M	2550	2100	2400		970	770	820	490	1135	2250
	160	315M	2550	2100	2400		970	770	820	490	1135	2350
	185	315L	2550	2100	2400		970	770	820	490	1135	2470
	200	315L	2550	2100	2400		970	770	820	490	1135	2520
	250	355M	2750	2300	2600		1080	870	930	495	1135	2785
	315	355M	2750	2300	2600		1080	870	930	495	1135	3020
	355	355M	2750	2300	2600		1080	870	930	495	1135	3660

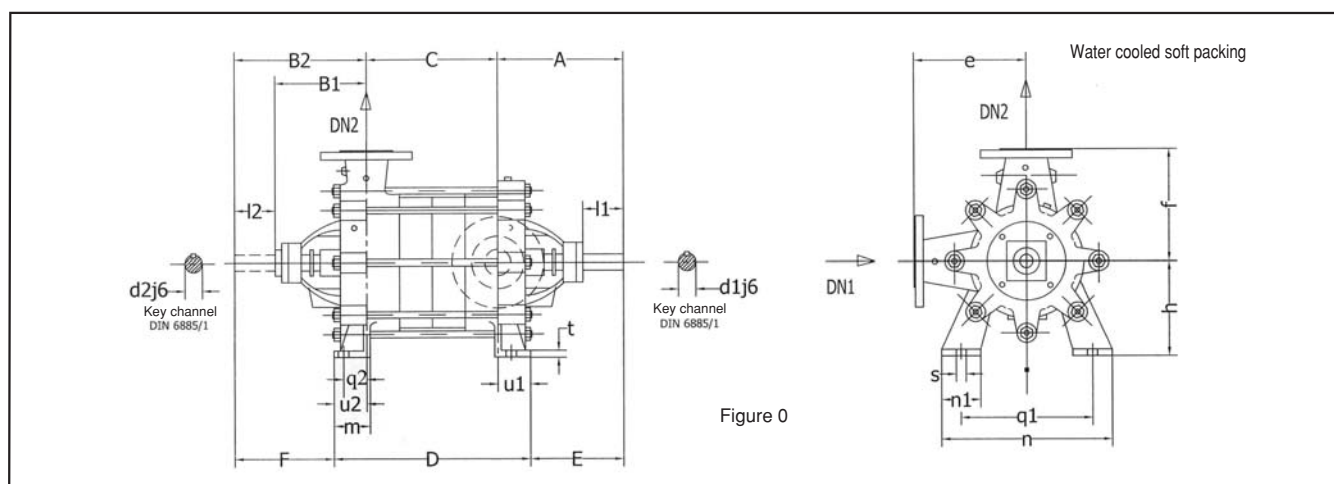
t: 320 mm

fig 0: Bareshaft pump

fig 3: Pump+Motor+Coupling+Baseplate

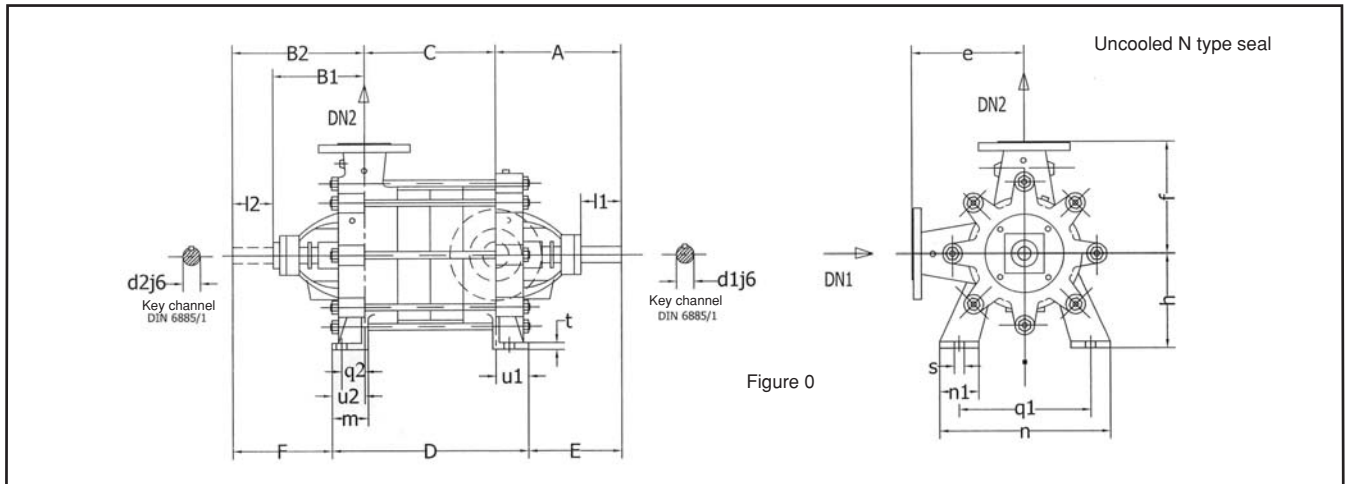
Anchor bolts: M20X320

	Connections G=		WKL
	ISO 228/1		150
Pressure gauge connection	1M.1	G	1/2"
Barrier liquid discharge	14 A	G	3/8"
Barrier liquid suction	10 E	G	3/8"
Medium drainage	6 B	G	1/2"
Medium filling and air vent	6 D	G	1/2"
Leakage drainage	8 B	G	1/2"



Pump size	Pump Dimensions – mm																				Shaft end dimensions			
	Nws	NWd	A	B1	B2*)	D	E	F	e	f	h	m	n	n1	q1	q2	s ϕ	t	u1	u2	d1 ϕ j6	d2 ϕ j6*)	l1	l2
32	40	32	280	230	295	C+76	242	257	160	160	105	45	190	55	150	25	11.5	12	38	38	25	20	50	50
40	50	40	300	250	300	C+86	257	257	170	170	115	48	210	60	170	30	11.5	12	38	38	25	20	50	50
50	65	50	335	270	345	C+92	289	299	180	180	135	50	280	60	230	30	15	12	46	46	35	28	60	60
65	80	65	340	270	345	C+102	289	294	200	200	155	55	300	70	250	35	15	14	51	51	35	28	60	60
80	100	80	370	300	385	C+120	310	325	265	265	210	60	370	70	310	40	15	14	60	60	40	35	85	85
100	125	100	415	330	435	C+140	345	365	300	300	250	75	440	80	370	45	15	14	70	70	45	40	95	95
125	150	125	480	360	500	C+170	395	415	375	375	300	85	550	95	460	51	20	18	85	85	50	45	125	125
150	200	150	560	430	575	C+200	460	475	425	425	350	100	650	100	550	65	23	18	100	100	60	48	140	140

Pump size	Pump C dimension (mm) according to number of stages														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
32	67	112	157	202	247	292	337	382	427	472	517	562	607	652	697
40	70	120	170	220	270	320	370	420	470	520	570	620	670	720	
50	73	128	183	238	293	348	403	458	513	568	623	678			
65	87	147	207	267	327	387	447	507	567						
80	110	193	276	359	442	525	608	691	774						
100	135	235	335	435	535	635	735								
125	165	280	395	510	625										
150	215	360	505	650											



Subject to technical modifications without prior notice.

Pump size	Pump Dimensions – mm																				Shaft end dimensions			
	Nws	NWd	A	B1	B2*)	D	E	F	e	f	h	m	n	n1	q1	q2	s ϕ	t	u1	u2	d1 ϕ j6	d2 ϕ j6*)	l1	l2
32	40	32	235	185	245	C+76	197	207	160	160	105	45	190	55	150	25	11.5	12	38	38	25	20	50	50
40	50	40	250	200	260	C+86	207	217	170	170	115	48	210	60	170	30	11.5	12	43	43	30	25	50	50
50	65	50	285	220	295	C+92	239	249	180	180	135	50	280	60	230	30	15	12	46	46	35	28	60	60
65	80	65	290	220	295	C+102	239	244	200	200	155	55	300	70	250	35	15	14	51	51	35	28	60	60
80	100	80	320	250	335	C+120	260	275	265	265	210	60	370	70	310	40	15	14	60	60	40	35	85	85
100	125	100	360	275	380	C+140	290	310	300	300	250	75	440	80	370	45	15	14	70	70	45	40	95	95
125	150	125	420	300	440	C+170	335	355	375	375	300	85	550	95	460	51	20	18	85	85	50	45	125	125
150	200	150	485	355	500	C+200	385	400	425	425	350	100	650	100	550	65	23	18	100	100	60	48	140	140

Pump size	Pump C dimension (mm) according to number of stages																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
32	67	112	157	202	247	292	337	382	427	472	517	562	607	652	697	742	787
40	70	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	
50	73	128	183	238	293	348	403	458	513	568	623	678	733	788			
65	87	147	207	267	327	387	447	507	567	627	687						
80	110	193	276	359	442	525	608	691	774	857							
100	135	235	335	435	535	635	735	835									
125	165	280	395	510	625	740											
150	215	360	505	650	795												

E/1210 E/1-10