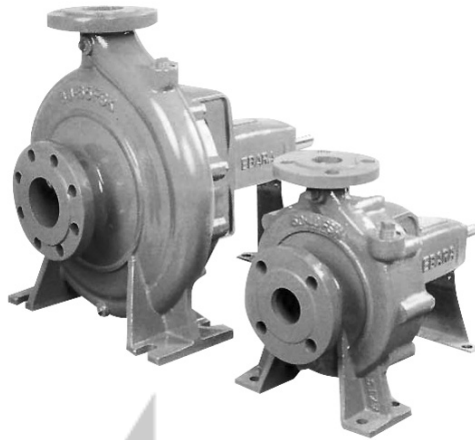


END SUCTION VOLUTE PUMPS



APPLICATIONS

- Industrial use
- Water supply
- Hot and cold water circulation
- For swimming pool
- Sprinkling
- Air-conditioning
- Fire-fighting application

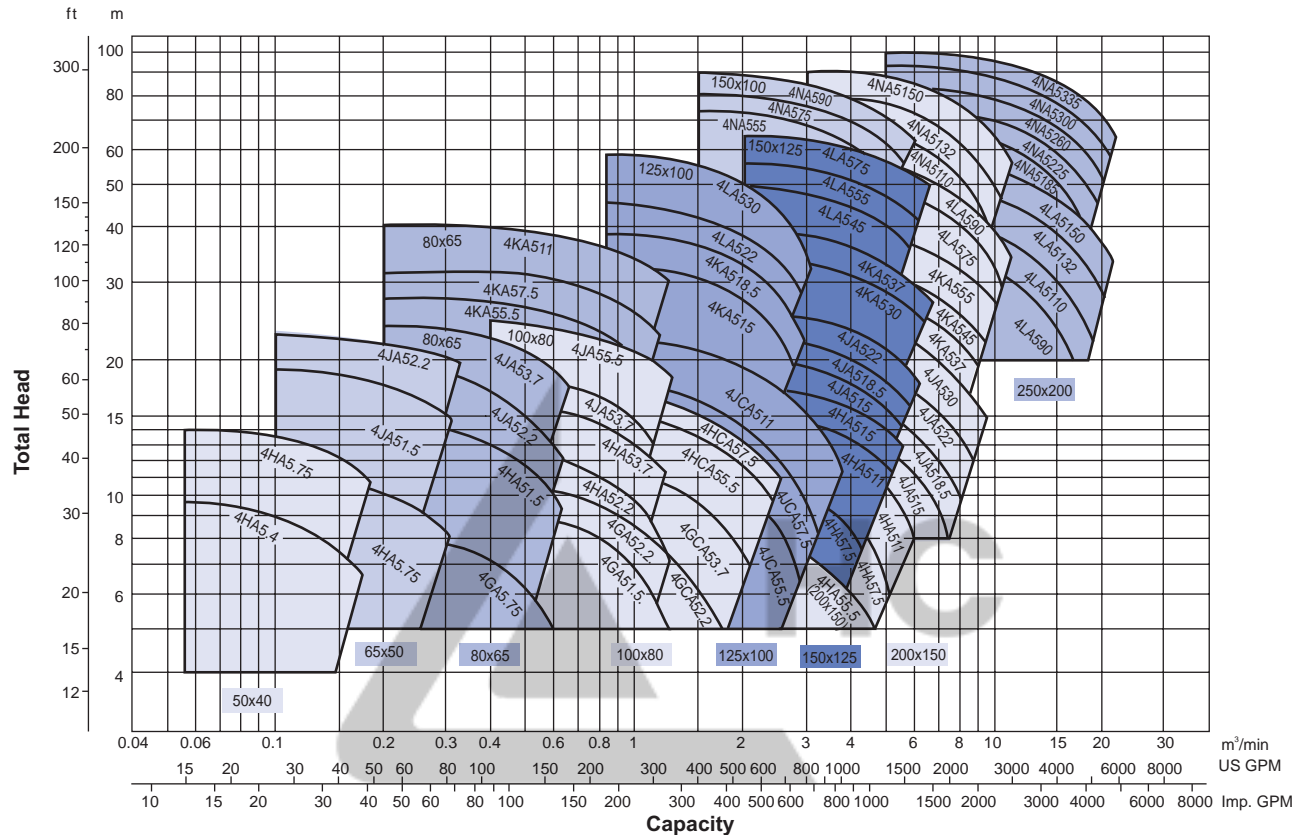
FEATURES

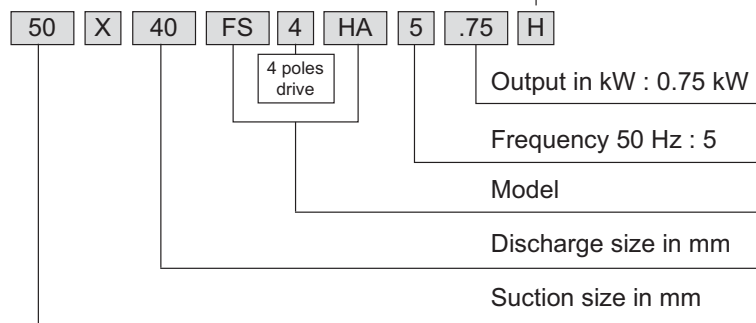
- Easy removal and maintenance, BPO (Back Pull Out) system allows all rotating element to be removed without disconnecting suction and discharge pipe work
- Top centreline discharge, foot support under casing for maximum resistance to misalignment and distortion from pipe loads
- Non-overload design to ensure stable performance for all applications
- Wide range application with flow capacity up to 22 m³/min
- Higher working pressure up to 16 bar

SPECIFICATIONS

Description		Standard		Optional	
		2 poles model	4 poles model	2 poles model	4 poles model
Liquid	Name	Clean water			
	Temperature	0 to 80°C (32 to 176°F)			
Max. Working Pressure		10 bar (10.2kgf/cm ²) for standard flange JIS 10K RF		16 bar (16.3 kgfcm ²)	
		16 bar (16.3kgf/cm ²) for standard flange JIS 16K RF			
Synchronous Speed		3000 min ⁻¹	1500 min ⁻¹		
Installation		Indoors		Outdoors	
Construction	Impeller	Enclosed			
	Shaft seal	Mechanical seal		Gland Packing	
	Sealing	Self flushing		External flushing	
	Bearing	Sealed ball bearing		Oil bath (some models only)	
Flange	Suction & Discharge	Suction < Ø 150mm, except 100X65 FSKA	: JIS 10K RF	16 bar : JIS 16K RF ; DIN PN-16	
		100X65 FSKA	: JIS 16K RF	DIN PN-16	
		Suction = Ø 150mm, except below models	: JIS 10K RF	16 bar : JIS 16K RF ; DIN PN-16	
		150X100 FSKA; 150X100 FSNA	: JIS 16K RF	DIN PN-16	
		Suction = Ø 200mm, except below models	: JIS 10K RF	16 bar : JIS 16K RF ; DIN PN-16	
		200X150 FSLA; 200X150 FSNA	: JIS 16K RF	DIN PN-16	
		Suction = Ø 250mm	: JIS 16K RF	DIN PN-16	
Material	Casing	Cast Iron		Ductile Cast Iron (FCD)	
	Impeller	BronzeCasting (CAC406/BC6)		Cast Iron; Ductile Cast Iron (FCD)	
	Shaft	403 Stainless steel		304; 316 Stainless steel	
	Seal	Mechanical Seal: Ceramic/Carbon/NBR		Gland Packing : Teflon (PTFE) impregnated	
Accessories	Bare shaft			Mechanical seal : SiC/SiC	
	With motor	Common base, Coupling guard		Priming funnel; valve; Companion Flange	
				Priming funnel; valve; Companion Flange	

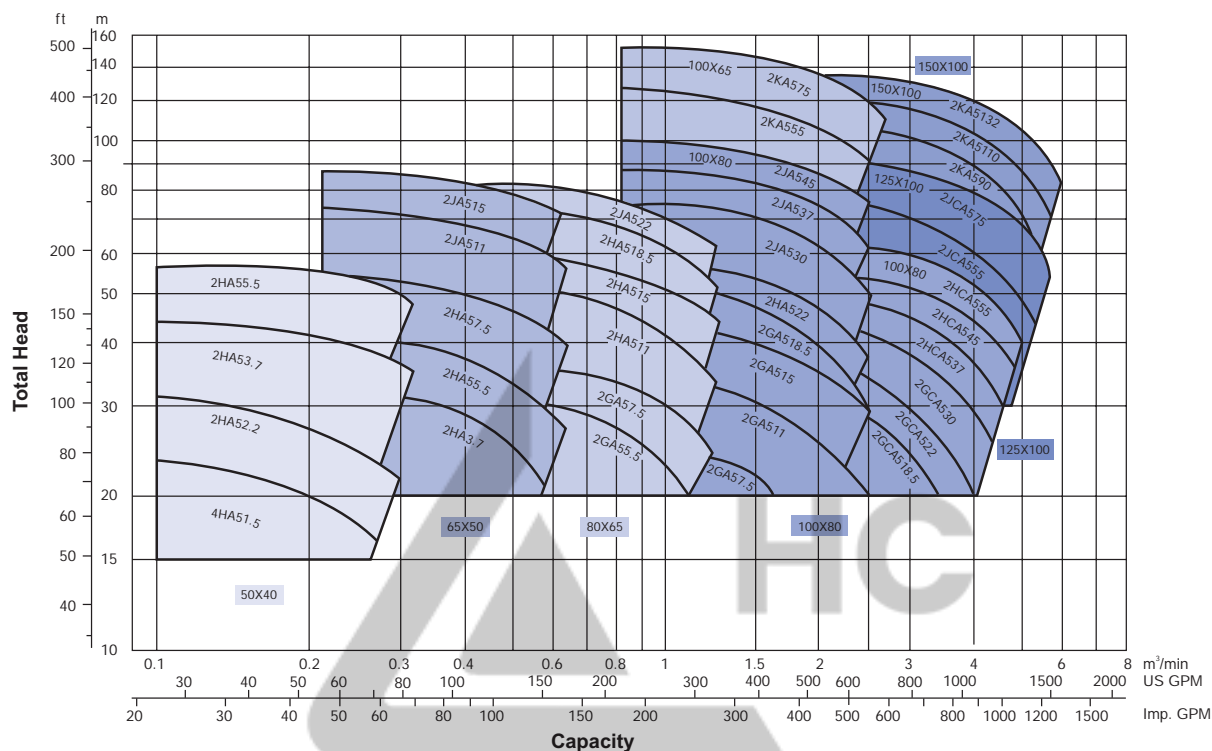
SELECTION CHART

1500 min⁻¹
50Hz (Synchronous Speed 1500 min⁻¹)

MODEL CODE - 4 POLES - 50Hz

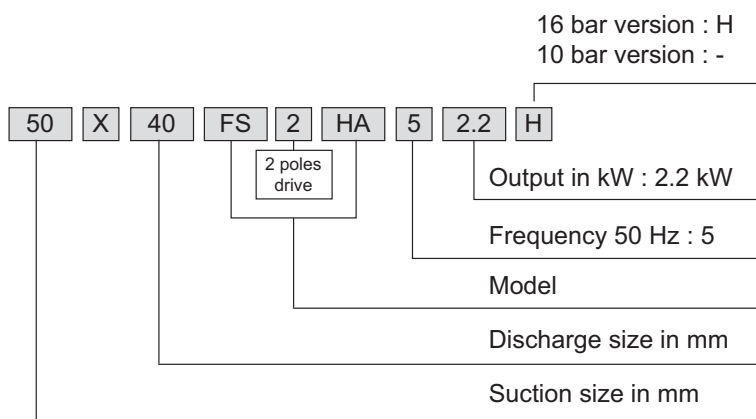
 16 bar version : H
 10 bar version : -


3000 min⁻¹

50Hz (Synchronous Speed 3000 min⁻¹)



MODEL CODE - 2 POLES - 50Hz



TECHNICAL DATA - IMPELLER AND COUPLING

4 POLES - 50 Hz 1500 rpm

MODEL	MOTOR		IMPELLER DIA mm	COUPLING CLA	SHAFT DIAMETER		
	POWER kW	FRAME No.			PUMP dP(mm)	MOTOR dM(mm)	
50X40 FSHA	0.4	71	182	112	24	14	
	0.75	80	209			19	
65X50 FSHA	0.75	80	199	112	24	19	
65X50 FSJA	1.5	90L	240	112	24	24	
	2.2	100L	261	125		28	
80X65 FSGA	0.75	80	164	112	24	19	
80X65 FSHA	1.5	90L	207	112	24	24	
80X65 FSJA	2.2	100L	237	140	32	28	
	3.7	112M	261				
80X65 FSKA	5.5	132S	279	160	32	38	
	7.5	132M	300			42	
	11	160M	333				
100X80 FSGA	1.5	90L	169	112	24	24	
	2.2	100L	183	125		28	
100X80 FSHA	2.2	100L	199	140	32	28	
	3.7	112M	223				
100X80 FSJA	3.7	112M	236	140	32	48	
	5.5	132S	265	160			
100X80 FSGCA	2.2	100L	166	140	32	28	
	3.7	112M	190	140			
100X80 FSHCA	3.7	112M	187	140	32	28	
	5.5	132S	205	160		38	
	7.5	132M	223	160		38	
	5.5	132S	232			38	
125X100 FSJCA	7.5	132M	251	160	38	38	
	11	160M	273			42	
	7.5	132M	250			38	
125X100 FSKA	11	160M	283	160	32	42	
	15	160L	315			48	
	18.5	180M	333			180	
	22	180L	368			180	48
125X100 FSLA	30	200L	407	200	32	55	
	7.5	132M	190			38	
150X125 FSHA	11	160M	212	160	32	42	
	15	160L	224				
	15	160L	246			160	42
150X125 FSJA	18.5	180M	260	180	32	48	
	22	180L	274				
150X125 FSKA	30	200L	316	200	42	55	
	37	225SC	334	224		60	
150X125 FSLA	45	225MC	378	224	42	60	
	55	250SC	400	250		70	
150X100 FSNA	75	250MC	424	250	55	70	
	55	250SC	409				
	75	250MC	460			250	80
	90	280SC	499			280	
200X150 FSHA	5.5	132S	186	160	32	38	
	7.5	132M	200			42	
	11	160M	222			42	
200X150 FSJA	15	160L	220	160	42		
	18.5	180M	234	180		48	
	22	180L	248			55	
	30	200L	268			60	
	37	225SC	274			224	
200X150 FSKA	37	225SC	294	224	48	60	
	45	225MC	310			70	
	55	250SC	334			250	
200X150 FSLA	75	250MC	385	250	48	70	
	90	280SC	411	280		80	
200X150 FSNA	110	280MC	445	280	60	80	
	132	315SC	480	315		85	
	150	315MC	495				
250X200 FSLA	90	280SC	362	280	60	80	
	110	280MC	380				
	132	315SC	392			315	85
	150	315MC	408				
250X200 FSNA	185	315MB	445	315	74	85	
	225	315CB-95R	473	355		95	
	260	355AB-95R	492				
	300	355CB-95R	520				
	335	355CB-95R	530				

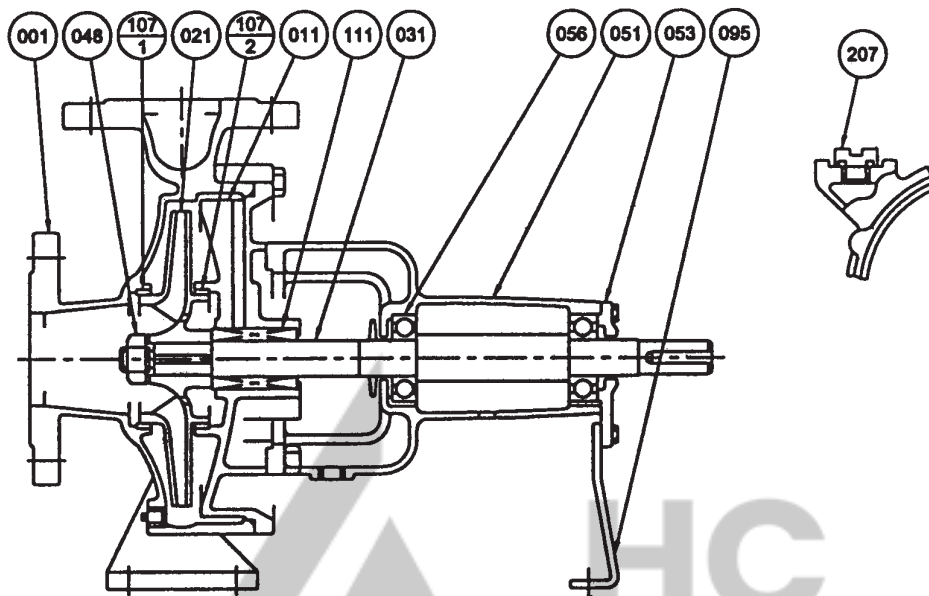
TECHNICAL DATA - IMPELLER AND COUPLING

2 POLES - 50 Hz 3000 rpm

MODEL	MOTOR		IMPELLER		COUPLING CLA	SHAFT DIAMETER	
	POWER kW	FRAME No.	DIA	mm		PUMP dP(mm)	MOTOR dM(mm)
50X40 FSHA	1.5	90S	143		112	24	24
	2.2	90L	160				
	3.7	112M	188		125		28
	5.5	132S	208		160		38
65X50 FSHA	3.7	112M	166		125	24	28
	5.5	132S	185				
	7.5	132S	207		160		38
65X50 FSJA	11	160M	232		160	24	42
	15	160M	250				
80X65 FSGA	5.5	132S	157		160	24	38
	7.5	132S	173				
80X65 FSHA	11	160M	199		160	24	42
	15	160M	215				
80X65 FSJA	18.5	160L	240		160	32	42
	22	180MA	246		180		48
	7.5	132S	147				38
100X80 FSGA	11	160M	167		160	24	42
	15	160M	180				
	18.5	160L	201		160		42
100X80 FSHA	22	180MA	211		180	32	48
	30	200LA	235				
100X80 FSJA	37	200LA	254		200	32	55
	45	225MA	269				
	55	250SA	286				
100X65 FSKA	75	250MA	328		224	38	60
	18.5	160L	166				
100X80 FSGCA	22	180MA	178		160	32	42
	30	200LA	193		180		48
	37	200LA	197				
100X80 FSHCA	45	225MA	205		200	32	55
	55	250SA	223				
	55	250SA	236		200		55
125X100 FSJCA	75	250MA	273		224	38	60
	75	250MA	278		224		60
150X100 FSKA	90	280SA	291		250	42	65
	110	280MA	310				
	132	315SA	323				

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SECTIONAL VIEW - Mechanical Seal (Standard)



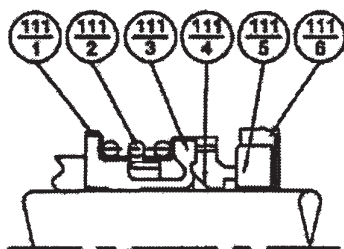
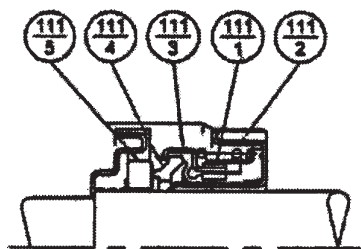
Model FH

50x40 FSHA; 60x50 FSHA, FSJA;
80x65 FSGA, FSHA, FSJA, FSKA;
100x80 FSGA, FSHA, FSJA;
125x100 FSKA

Model EA

100x65 FSKA; 100x80 FSGCA, FSHCA;
125x100 FSJCA, FSLA;
150x100 FSKA, FSNA;
150x125 FSHA, FSJA, FSKA, FSLA;
200x150 FSHA, FSJA, FSKA, FSLA, FSNA;
250x200 FSLA, FSNA

บริษัท ไฮ คอนโทรล จำกัด.

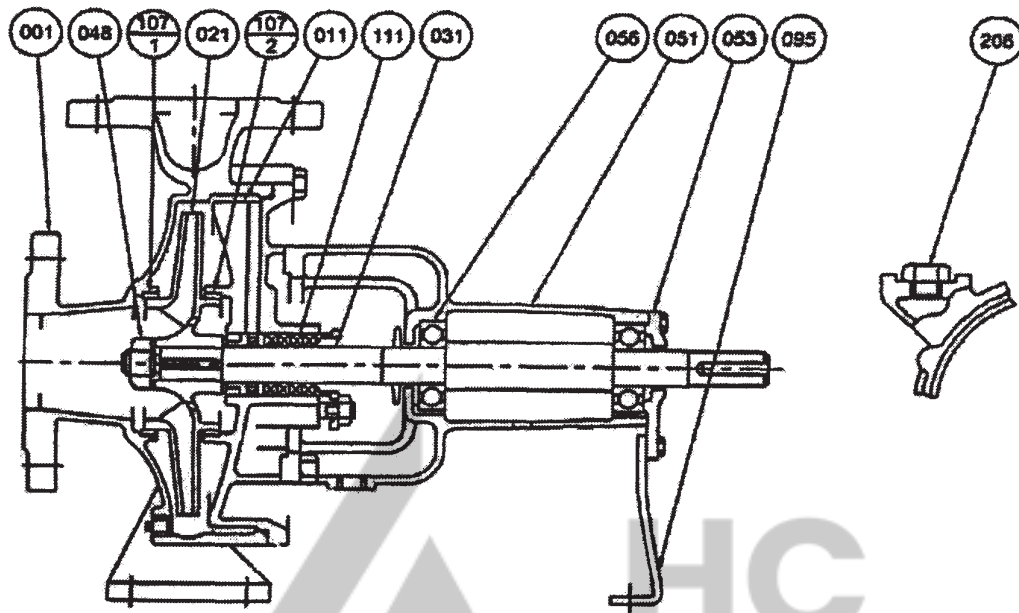


No.	Part Name	Material	Qty
111-1	Spring Holder	Stainless	1
111-2	Coil Spring	Steel	
111-3	Friction Ring	NBR	
111-4	Seal Ring	Carbon	
111-5	Mating Ring	Ceramic	

No.	Part Name	Material	Qty
111-1	Spring Holder	Stainless	1
111-2	Coil Spring	Steel	
111-3	Bellows	NBR	
111-4	Seal Ring	Carbon	
111-5	Mating Ring	Ceramic	
111-6	Cup Gasket	NBR	

No.	Part Name	Material	Qty
001	Casing	Cast Iron	1
011	Casing Cover		
021	Impeller	Bronze	
031	Shaft	Stainless Steel	
048	Impeller Nut	Brass	
051	Bearing Housing	Cast Iron	2
053	Bearing Cover		
056	Ball Bearing	-	
095	Stay	Steel	1
107-1	Casing Ring	Bronze	1
107-2	Casing Ring		
111	Mechanical Seal	-	
207	Plug	Steel	1

SECTIONAL VIEW - Gland Packing (Option)



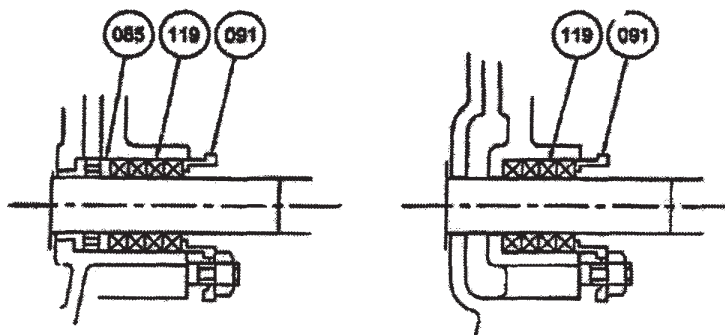
With Lantern Ring

50x40 FSHA; 65x50 FSHA, FSJA;
80x65 FSGA, FSHA;
100x80 FSGA, 125x100 FSLA;
150x100 FSKA, FSNA;
150x125 FSKA, FSLA;
200x150 FSJA, FSLA, FSNA;
250x200 FSLA, FSNA

Without Lantern Ring

80x65 FSJA; FSKA;
100x65 FSKA;
100x80 FSHA, FSJA, FSGCA, FSHCA;
125x100 FSJCA, FSKA;
150x125 FSHA, FSJA;
200x150 FSHA, FSKA;

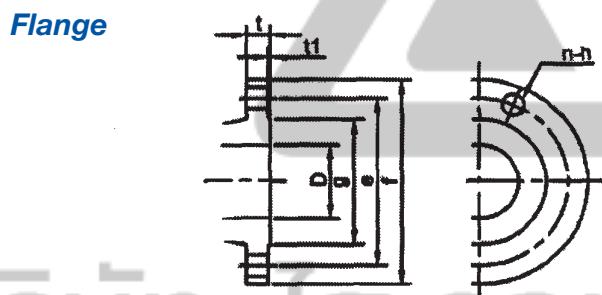
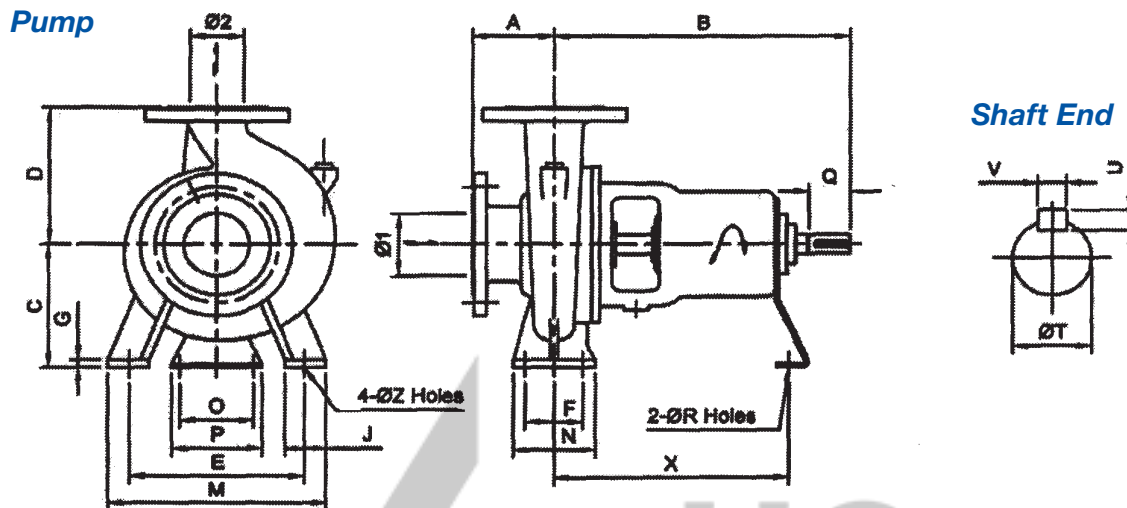
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No.	Part Name	Material	Qty
085	Lantern Ring	Bronze	1
091	Gland		
119	Gland Packing	Non-Asbestos	4 or 5

No.	Part Name	Material	Qty
091	Gland	Bronze	1
119	Gland Packing	Non-Asbestos	4 or 5

No.	Part Name	Material	Qty
001	Casing	Cast Iron	1
011	Casing Cover		
021	Impeller	Bronze	
031	Shaft	Stainless Steel	
048	Impeller Nut	Brass	
051	Bearing Housing	Cast Iron	2
053	Bearing Cover		
056	Ball Bearing	-	
095	Stay	Steel	1
107-1	Casing Ring	Bronze	1
107-2	Casing Ring		
111	Gland Packing	Non-Asbestos	4 or 5
207	Plug	Steel	1

DIMENSION - Bare Shaft Pump (10 Bar Model)
50Hz


Dimension – Flange (JIS 10K RF)

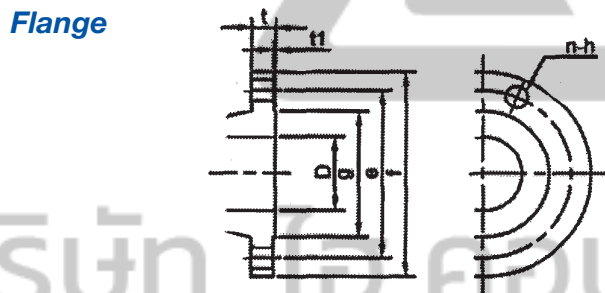
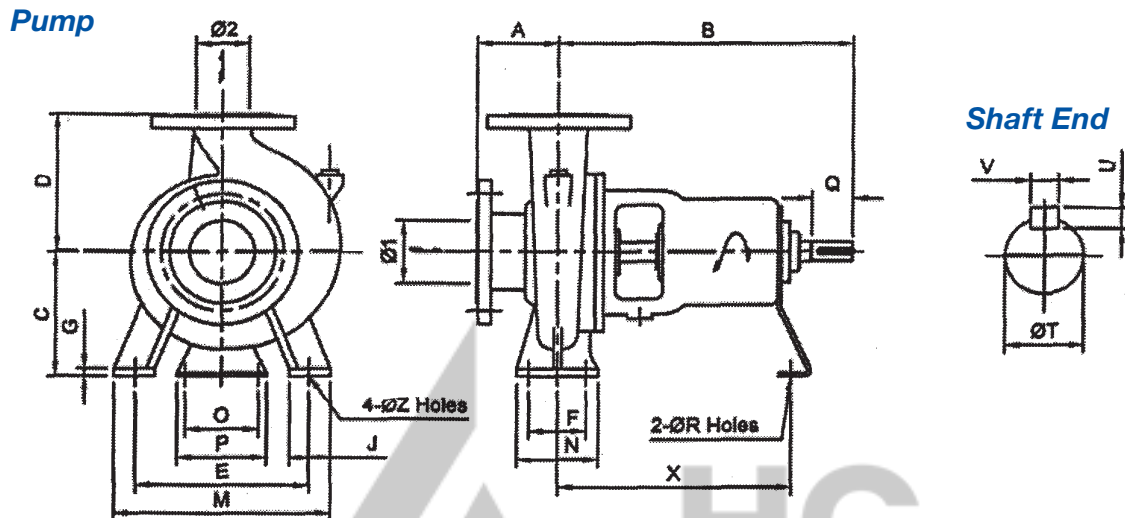
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
40	140	105	81	2	20	4	19
50	155	120	96	2	20	4	19
65	175	140	116	2	22	4	19
80	185	150	126	2	22	8	19
100	210	175	151	2	24	8	19
125	250	210	182	2	24	8	23
150	280	240	212	2	26	8	23
200	330	290	262	2	26	12	23

Dimension – Pump (50/60 Hz)

Model		Size		Pump																Shaft					wt	
		Ø1	Ø2	A	B	C	D	E	F	G	J	M	N	O	P	R	X	Z	T	Q	U	V	Kg			
50X40	FSHA	50	40	80	360	160	180	190	70	12	50	240	100	110	150	17	285	15	24	50	7	8	37			
65X50	FSHA	65	50	100	360	160	180	190	70	12	50	265	100	110	150	17	285	15	24	50	7	8	42			
65X50	FSJA					180	225	250	95	14	65	320	125										49			
80X65	FSGA	80	65	100	360	160	180	212	70	12	50	265	100	110	150	17	285	15	24	50	7	8	39			
80X65	FSHA					200																				
80X65	FSJA					180	225	250	95	14	65	320	125													60
80X65	FSKA					125	470	225	280	315	120	16	80										400	160	370	19
100X80	FSGA							160	200	212		14					280	125				15	24	50	7	8
100X80	FSHA	100	80	100	360	180	225	250	95	15	65	320	125	110	150	17	285	19	32	80	8	10	62			
100X80	FSJA					200	250	280															120	80	360	160
100X80	FSGCA					125	360	180	225	250			320												15	62
100X80	FSHCA							250	280	95	14	65	345										125			65
125X100	FSJCA						360	225	280													285	38			
125X100	FSKA	125	100	140	470	250	315	315	120	16	80	400	160	110	150	17	370	19	32	80	8	10	128			
125X100	FSLA					530	280	355	400	150	20	100	500				200	24	42	110	8	12	168			
150X125	FSHA	150	125	140	470	250	315	120	15	80	400	160	110	150	17	370	19	32	80	8	10	120				
150X125	FSJA						355				16														128	
200X150	FSHA	200	150	160	470	280	355	400	150	18	100	500	200	110	150	17	370	24	32	80	8	10	137			

Unit : mm, unless otherwise stated

DIMENSION - Bare Shaft Pump (10 Bar Model)



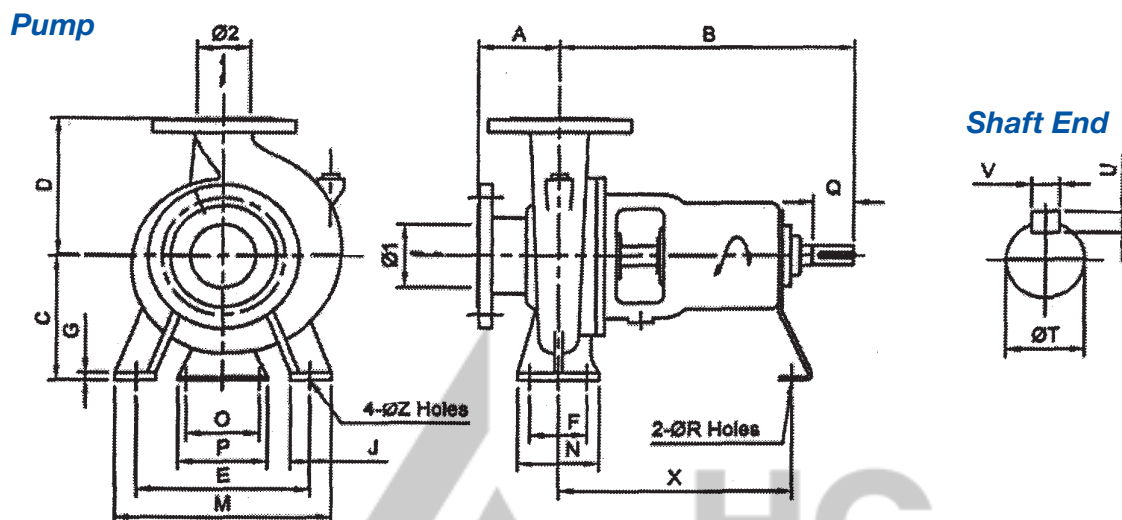
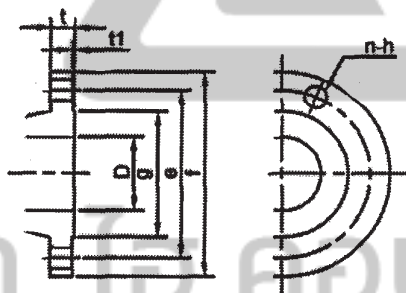
Dimension – Flange (JIS 10K RF)

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
125	250	210	182	2	24	8	23
150	280	240	212	2	26	8	23
200	330	290	262	2	26	12	23

Dimension – Pump

Model	Size		Pump																Shaft				wt
	Ø1	Ø2	A	B	C	D	E	F	G	J	M	N	O	P	R	X	Z	T	Q	U	V	Kg	
150X125 FSKA	150	125	140	530	280	355	400	150	16	100	500	200	110	150	17	370	24	42	110	8	12	170	
150X125 FSLA					20	315			400													205	
200X150 FSJA	200	150	160	530	280	375	400	150	18	100	500	200	110	150	17	370	24	42	110	8	12	183	
200X150 FSKA				670	315	400	450		20		550		140	180	19	500		48		9	14	222	

Unit : mm, unless otherwise stated

DIMENSION - Bare Shaft Pump (16 Bar Model)
50Hz

Flange


Dimension – Flange (JIS 16K RF)

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
65	175	140	116	2	22	8	19
100	225	185	160	2	26	8	23
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27

Dimension – Pump (50/60 Hz)

Model	Size		Pump														Shaft					wt Kg
	Ø1	Ø2	A	B	C	D	E	F	G	J	M	N	O	P	R	X	Z	T	Q	U	V	
100X65 FSKA	100	65	125	360	225	280	315	120	16	80	400	160	110	150	17	257	19	38	80	8	10	106
150X100 FSKA	150	100	140	530	250	315	315	120	16	80	400	160	90	120	15	373	19	42	95	8	12	146
150X100 FSNA			180	670	375	450	450	150	20	100	550	200	140	180	19	500	24	48	110	9	14	365
200X150 FSLA	200	150	162	670	315	450	450	150	20	100	550	200	140	180	19	500	24	48	110	9	14	336
200X150 FSNA			182		375	560												60		11	18	488
250X200 FSLA	250	200	180	670	385	560	560	250	25	100	660	315	140	180	19	500	24	60	110	11	18	505
250X200 FSNA			200	820	435	630							160	200		630	27	74	125	12	20	642

Unit : mm, unless otherwise stated

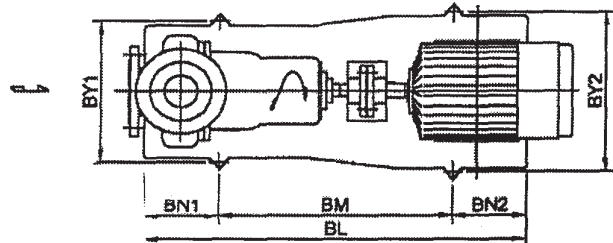
DIMENSION - Bare Shaft Pump (10 Bar Model)

50Hz

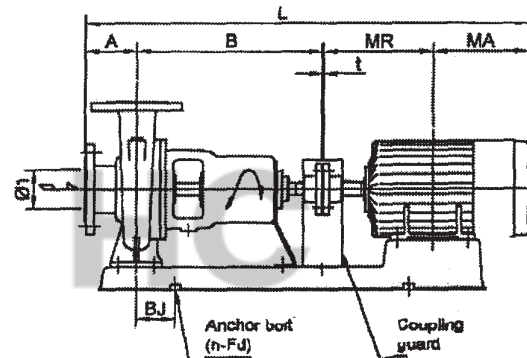
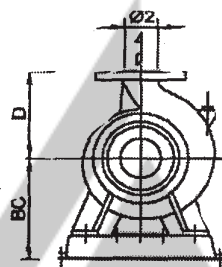
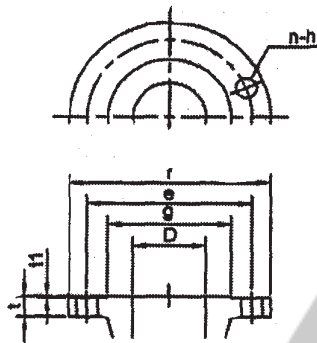
Dimension – Flange (JIS 10K RF)

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
40	140	105	81	2	20	4	19
50	155	120	96	2	20	4	19
65	175	140	116	2	22	4	19
80	185	150	126	2	22	8	19
100	210	175	151	2	24	8	19

Pump



Flange



Dimension – Pump

Model	Motor	Size		Pump				Motor				Common Base										Total			
	kW	Ø1	Ø2	A	B	D	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN1	BN2	BY1	BY2	n-Fd	wt kg	t	L	wt kg	
50X40 FS4HA	0.4	50	40	80	360	180	37	71	120	130.5	12	215	45	640	420	105	115	320	230	4-M12	19	3	693.5	71	
	0.75							80	140	142.5	17										20			725.5	77
65X50 FS4HA	0.75	65	50	100	360	180	42	80	140	142.5	17	215	45	640	420	105	115	320	230	4-M12	20	3	745.5	82	
65X50 FS4JA	1.5	65	50	100	360	225	49	90L	168.5	164	23.5	230	40	740	480	115	145	400	260	4-M12	24.5	3	795.5	99.5	
	2.2							100L	193	181.5	32										26			837.5	110.5
80X65 FS4GA	0.75	80	65	100	360	180	39	80	140	142.5	17	215	45	640	420	105	115	320	230	4-M12	20	3	745.5	79	
80X65 FS4HA	1.5	80	65	100	360	200	48	90L	168.5	164	23.5	230	40	740	550	115	75	360	290	4-M12	26	3	795.5	101	
80X65 FS4JA	2.2	80	65	100	360	225	60	100L	193	181.5	32	230	40	740	480	115	145	400	260	4-M12	26	3	837.5	123	
	3.7							112M	200	191.5	43										25			854.5	133
80X65 FS4KA	5.5	80	65	125	470	280	108	132S	239	215	62	295	80	960	660	180	120	490	400	4-M16	56	3	1025	233	
	7.5							132M	258	234	77										57			1090	249
	11							160M	323	285	115										57			1206	289
100X80 FS4GA	1.5	100	80	100	360	200	49	90L	168.5	164	23.5	230	40	740	550	115	75	360	290	4-M12	24	3	795.5	100	
	2.2	2.2						100L	193	181.5	32										26			837.5	109
100X80 FS4HA	2.2	100	80	100	360	225	62	100L	193	181.5	32	230	40	740	480	115	145	400	260	4-M12	26	3	837.5	125	
	3.7							112M	200	191.5	43										25			854.5	135
100X80 FS4JA	3.7	100	80	100	360	250	70	112M	200	191.5	43	265	55	765	540	155	70	440	320	4-M16	33.5	3	854.5	151.5	
	5.5							132S	239	215	62										270			855	630

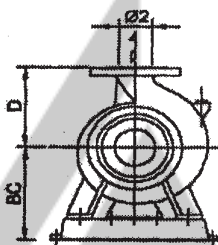
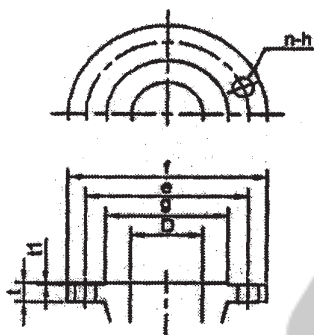
Unit : mm, unless otherwise stated

DIMENSION - Pump with Motor (10 Bar Model)
4 Poles 50Hz

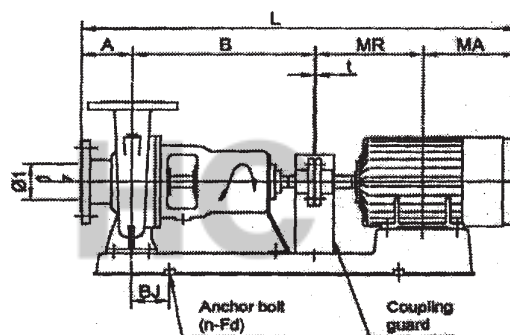
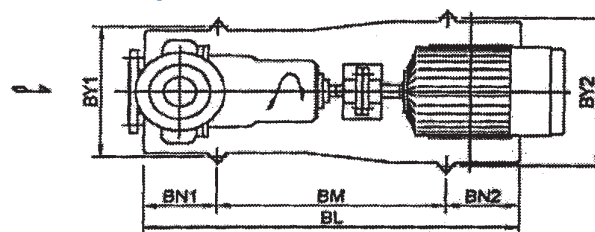
Dimension – Flange (JIS 10K RF)

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	185	150	126	2	22	8	19
100	210	175	151	2	24	8	19
125	250	210	182	2	24	8	23
150	280	240	212	2	26	8	23
200	330	290	262	2	26	12	23

Flange



Pump



Dimension – Pump

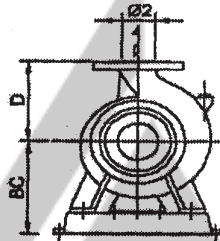
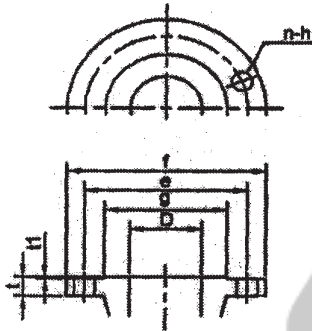
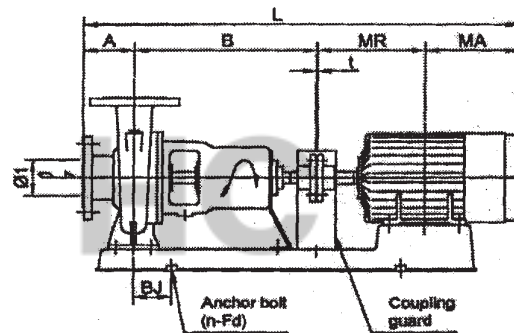
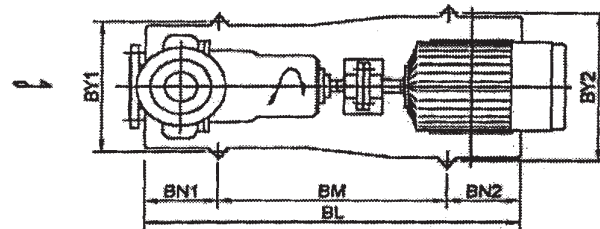
Model	Motor	Size		Pump				Motor				Common Base										Total												
	kW	Ø1	Ø2	A	B	D	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN1	BN2	BY1	BY2	n-Fd	wt kg	t	L	wt kg										
100X80 FS4GCA	2.2	100	80	125	360	225	62	100L	193	170	30	230	40	740	480	115	145	400	260	4-M12	24.5	3	851	124.5										
	3.7							112M	200	182	42								290		25			880	137									
100X80 FS4HCA	5.5	100	80	125	360	250	65	132S	239	207	65	250	55	855	630	155	70	440	350	4-M12	38	3	934	179										
	7.5							132M	258	234	77									270	40			980	193									
125X100 FS4JCA	5.5	125	100	140	360	280	108	132S	239	207	65	321	45	825	525	150	70	440	350	4-M12	55	3	949	233										
	7.5							132M	258	226	76			60	987						255													
	11							160M	323	281	120			60	1107						298													
125X100 FS4KA	15	125	100	140	470	315	128	160L	345	307	132	330	100	1075	740	190	145	490	400	4-M16	64.5	3	1265	331.5										
	18.5							180MC	351.5	320.5	172			84	1285						393													
125X100 FS4LA	22	125	100	140	530	355	168	180LC	370.5	339.5	205	390	95	1230	840	205	185	600	440	4-M20	774	3	1383	459.5										
	30							200LC	395.5	374.5	278			120	1280						940			230	110	490	724	4	1444	532.5				
150X125 FS4HA	7.5	150	125	140	470	315	120	132M	258	234	77	320	80	960	660	180	120	490	400	4-M16	57	3	1105	261										
	11							160M	323	285	115			330	1075						740			90	145	44.7	1221	286.5						
	15							160L	345	307	132			320	100						1090			200	150	62	1265	321						
150X125 FS4JA	15	150	125	140	470	315	128	160L	345	307	132	320	100	1090	740	200	150	490	400	4-M16	62	3	1265	329										
	18.5							180MC	351.5	320.5	172			330	1075						190			145	83	1285	392							
	22							180LC	370.5	339.5	205			340	60						1245			960	230	235	670	600	4-M20	105	1323	447		
150X125 FS4KA	30	150	125	140	530	355	170	200LC	395.5	374.5	278	390	120	1280	940	230	110	600	490	4-M20	72.4	4	1444	534.5										
	37							225SC	432	384	327			385	110						1425			960	235	670	600	141.6	1490	657				
150X125 FS4LA	45	150	125	140	530	400	205	225MC	444.5	396.5	351	395	110	1425	960	230	235	670	600	4-M20	108	4	1515	682.5										
	55							250SC	463.5	419	475										410			110	1425	960	230	235	670	600	4-M20	110	1556.5	817
	75							250MC	482.5	438	550										410			109	1594.5	891								

Unit : mm, unless otherwise stated

DIMENSION - Pump with Motor (10 Bar Model)
4 Poles 50Hz

Dimension – Flange (JIS 10K RF)

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
150	280	240	212	2	26	8	23
200	330	290	262	2	26	12	23

Flange

Pump


Dimension – Pump

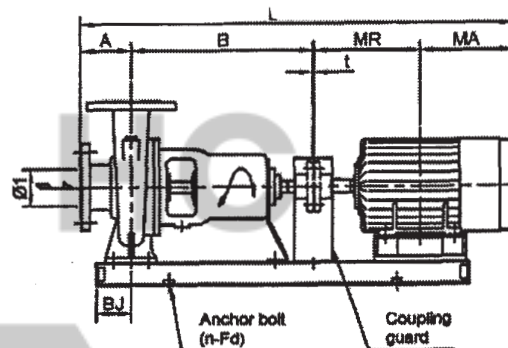
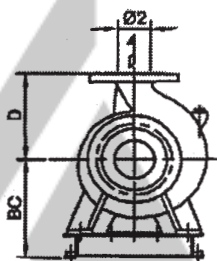
Model	Motor		Size		Pump				Motor				Common Base										Total											
	kW	Ø1	Ø2	A	B	D	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN1	BN2	BY1	BY2	n-Fd	wt kg	t	L	wt kg										
200X150 FS4HA	5.5	200	150	160	470	355	137	132S	239	215	62	390	80	980	660	200	120	600	400	4-M16	78	3	1087	284										
	7.5							132M	258	234	77																							
	11							160M	323	285	115														360	1190	840	150	85					
200X150 FS4JA	15	200	150	160	530	375	183	160L	345	307	132	390	80	1190	840	200	150	600	400	4-M16	104	3	1345	426										
	18.5							180MC	351.5	320.5	172																							
	22							180LC	370.5	339.5	205														390	95	1230	840	205	185	600	400	4-M20	77.4
	30							200LC	395.5	374.5	278																							
	37							225SC	432	384	327	385	110	1425	960	230	235	670	600	4-M20	141.6	4	1510	669.7										
200X150 FS4KA	37	200	150	160	670	400	222	225SC	432	384	327	425	110	1460	1000	230	230	670	550	4-M20	141	4	1650	708.5										
	45							225MC	444.5	396.5	351																							
	55							250SC	463.5	419	475														430	125	1520	1040	245	235	600	136		

Unit : mm, unless otherwise stated

4 Poles 50Hz

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
100	225	185	160	2	26	8	23
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27

The diagram shows a rectangular building layout. The overall dimensions are labeled as BW (width) and BL (length). The layout includes a central corridor of width BY and a central room of width BN . The rooms are labeled as BM (middle room) and BN (side rooms). The diagram also shows a central corridor of width BY and a central room of width BN . The rooms are labeled as BM (middle room) and BN (side rooms).



Model	Motor	Size		Pump				Motor				Common Base										Total		
	kW	Ø1	Ø2	A	B	D	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN1	BN2	BY1	BY2	n-Fd	wt kg	t	L	wt kg
150X100 FS4NA	55	150	100	180	670	450	365	250SC	463.5	409	520	525	130	1500	2x600	150	150	580	640	6-M20	156	4	1736.5	1030
	75							250MC	482.5	428	580	525	130	1530	2x615	150	150	580	640	6-M20	170		1774.5	1120
	90							280SC	544.0	478	660	525	130	1600	2x650	150	150	580	640	6-M20	175		1876	1250
200X150 FS4LA	75	200	150	162	670	450	336	250MC	482.5	428	580	465	130	1530	2x615	150	150	580	640	6-M20	150	4	1756.5	1070
	90							280SC	544.0	478	660	465	130	1600	2x650	150	150	580	640	6-M20	145		1858	1191
	110							280MC	569.5	502.5	720	525	130	1670	2x685	150	150	580	640	6-M20	176		1928	1434
200X150 FS4NA	132	200	150	182	670	560	488	315SC	589	527	920	550	130	1680	2x690	150	150	650	720	6-M22	200	4	1972	1677
	150							315MC	614.5	552.5	1030	550	130	1730	2x715	150	150	650	720	6-M22	220		2023	1804
	90							280SC	544.0	478	660	560	185	1680	2x675	165	165	690	760	6-M22	250		4	1876
250X200 FS4LA	110	250	200	180	670	505	280MC	569.5	502.5	720	560	185	1730	2x700	165	165	690	760	6-M22	255	1926	1528		
	132						315SC	589	527	920	560	185	1740	2x705	165	165	690	760	6-M22	235	1970	1725		
	150						315MC	614.5	552.5	1030	560	185	1790	2x730	165	165	690	760	6-M22	240	2021	1841		
250X200 FS4NA	185	250	200	200	200	820	630	315MB	614.5	552.5	1070	610	185	1950	2x800	175	175	690	760	6-M22	290	4	2191	2067
	225							315CB	741.0	1116	1800	610	185	2240	2x945	175	175	690	760	6-M22	340		2881	2850
	260							355AB	779.0	1200	2400	610	185	2300	2x975	175	175	770	840	6-M22	330		5	3004
	300							355CB	874.0	1295	2700	610	185	2490	2x1070	175	175	770	840	6-M22	365	5	3194	3802
	335																						3250	4202

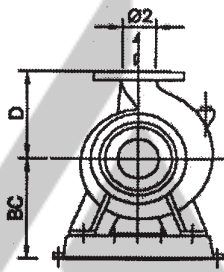
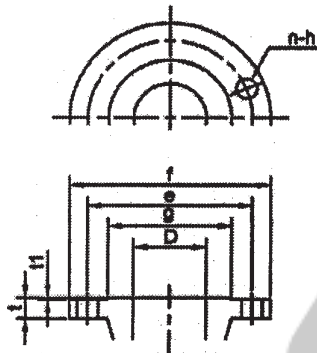
Unit : mm, unless otherwise stated

DIMENSION - Pump with Motor (10 Bar Model)
2 Poles 50Hz

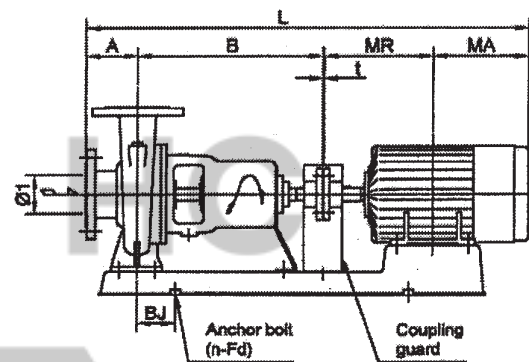
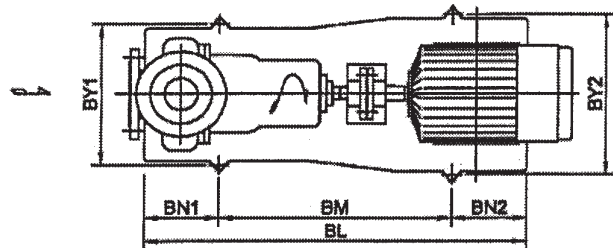
Dimension – Flange (JIS 10K RF)

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
40	140	105	81	2	20	4	19
50	155	120	96	2	20	4	19
65	175	140	116	2	22	4	19
80	185	150	126	2	22	8	19

Flange



Pump



Dimension – Pump

Model	Motor	Size		Pump				Motor				Common Base										Total									
	kW	Ø1	Ø2	A	B	D	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN1	BN2	BY1	BY2	n-Fd	wt kg	t	L	wt kg							
50X40 FS2HA	1.5	50	40	80	360	180	37	90S	156	151.5	21.5	220	40	740	550	115	75	360	290	4-M12	26	3	750.5	87.5							
	2.2							90L	168.5	164	26.5										29		775.5	95.5							
	3.7							112M	200	191.5	44										215		23	834.5	108						
	5.5							132S	239	215	65										230		55	820	540	130	150	350	350	31.6	897
65X50 FS2HA	3.7	65	50	100	360	180	42	112M	200	191.5	44	215	55	740	540	130	70	350	290	4-M12	24	3	851.5	114							
	5.5							132S	239	215	65										230		820	540	130	150	350	350	32	917	146
	7.5							132S	239	215	70										230		820	540	130	150	350	350	34	917	151
65X50 FS2JA	11	65	50	100	360	225	49	160M	323	285	107	270	98	920	600	160	160	400	400	4-M16	69	3	1071	232							
	15							160M	323	285	122										69		1071	247							
80X65 FS2GA	5.5	80	65	100	360	180	39	132S	239	215	65	230	55	820	540	130	150	350	350	4-M12	33	3	917	144							
	7.5							132S	239	215	70										33		917	149							
80X65 FS2HA	11	80	65	100	360	200	48	160M	323	285	107	250	98	920	600	160	160	400	400	4-M16	69	3	1071	231							
	15							160M	323	285	122										69		1071	246							
80X65 FS2JA	18.5	80	65	100	360	225	60	160L	345	307	138	270	98	920	600	160	160	400	400	4-M16	69	3	1115	274							
	22							180M	351.5	320.5	180										69		1135	321							

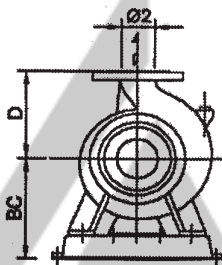
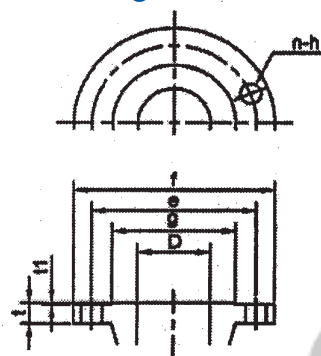
Unit : mm, unless otherwise stated

DIMENSION - Pump with Motor (10 Bar Model)
2 Poles 50Hz

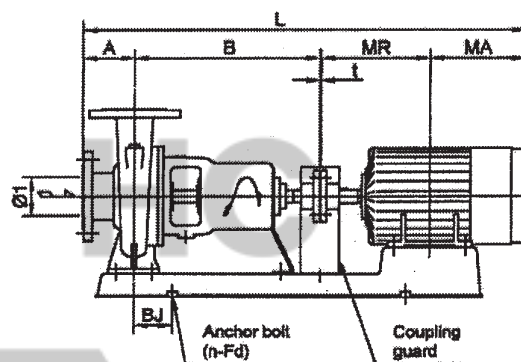
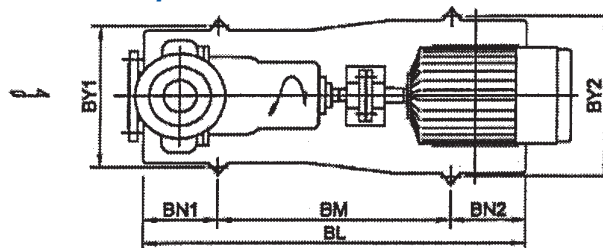
Dimension – Flange (JIS 10K RF)

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	185	150	126	2	22	8	19
100	210	175	151	2	24	8	19
125	250	210	182	2	24	8	23

Flange



Pump



Dimension – Pump

Model	Motor	Size		Pump				Motor				Common Base										Total		
	kW	Ø1	Ø2	A	B	D	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN1	BN2	BY1	BY2	n-Fd	wt kg	t	L	wt kg
100X80 FS2GA	7.5	100	80	100	360	200	49	132S	239	207	65	230	55	820	540	130	150	350	350	4-M12	30	3	909	144
	11							160M	323	281	120	250	98	920	600	160	160	400	400	4-M16	47		1067	216
	15							160M	323	281	120	250	98	920	600	160	160	400	400	4-M16	47		1067	216
100X80 FS2HA	18.5	100	80	100	360	225	62	160L	345	303	158	270	98	920	600	160	160	400	400	4-M16	47	3	1111	267
	22							170M	351.5	315.5	180	270	98	920	600	160	160	400	400	4-M16	47		1130	289
	30							200L	395.5	372.5	290	275	95	1040	660	185	195	440	440	4-M16	65		1232	425
100X80 FS2JA	37	100	80	100	360	250	70	200L	395.5	372.5	290	275	95	1040	660	185	195	440	440	4-M16	65	4	1270	490
	45							225MA	414.5	391.5	355												1270	490
	55							250SA	463.5	419	452												340	80
100X80 FS2GCA	18.5	100	80	125	360	225	62	160L	345	303	158	270	98	920	600	160	160	400	400	4-M16	47	4	1197	267
	22							180MA	351.5	320.5	185	270	95	1040	660	185	195	440	440				1160	294
	30							200LA	395.5	374.5	270	275	95	1040	660	185	195	440	440				1259	398
100X80 FS2HCA	37	100	80	125	360	250	65	200LA	395.5	372.5	290	275	95	1040	660	185	195	440	440	4-M16	65	4	1259	420
	45							225MA	414.5	396.5	343	315	80	1120	760	180	180	550	550				1300	473
	55							250SA	463.5	419	452	340	80	1120	760	180	180	550	550				1257	587
125X100 FS2JCA	55	125	100	140	360	280	108	250SA	463.5	419	452	275	95	1040	660	185	195	440	440	4-M20	65	4	1387	625
	75							250MA	482.5	438	525	420	55	1220	850	175	195	540	540				1365	733

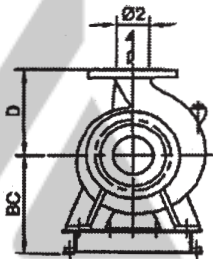
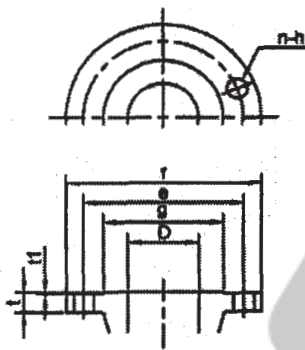
Unit : mm, unless otherwise stated

DIMENSION - Pump with Motor (16 Bar Model)
2 Poles 50Hz

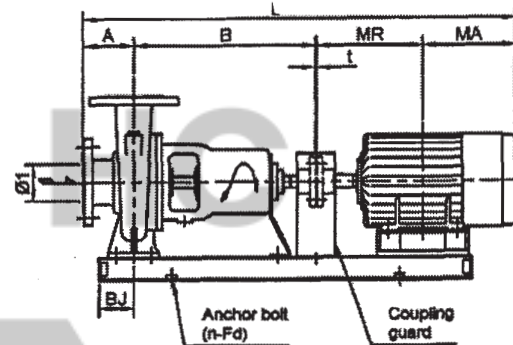
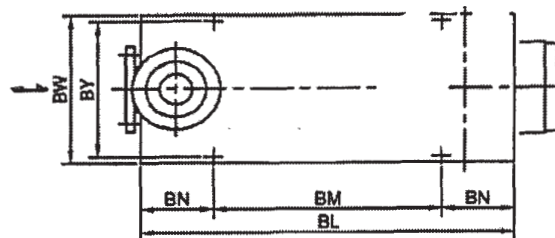
Dimension – Flange (JIS 16K RF)

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
65	175	140	116	2	22	8	19
100	225	185	160	2	26	8	23
150	305	260	230	2	28	12	25

Flange



Pump

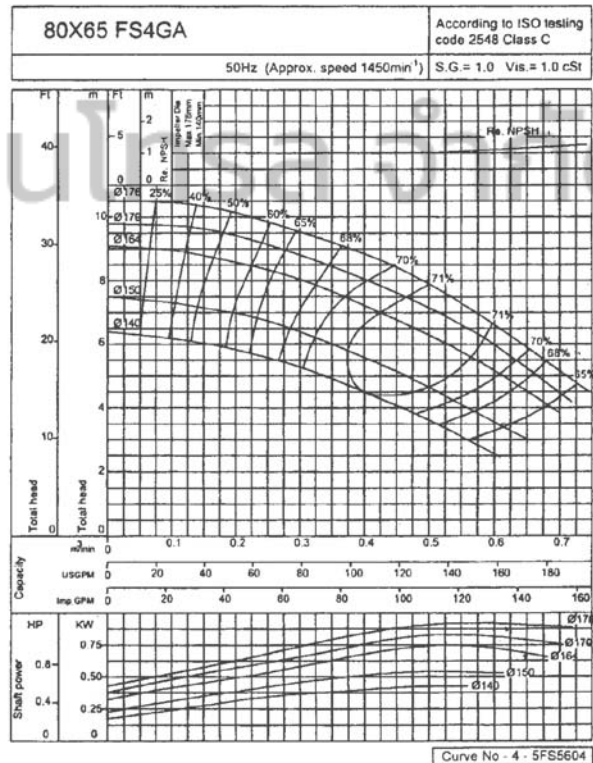
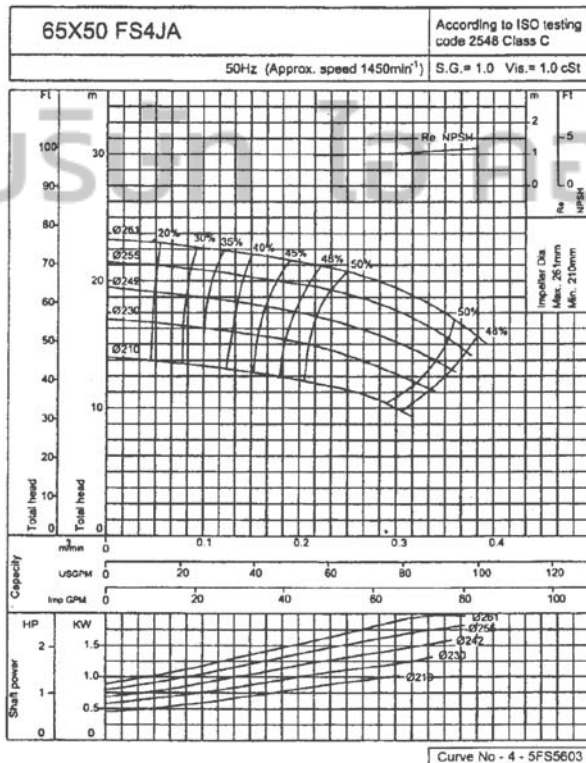
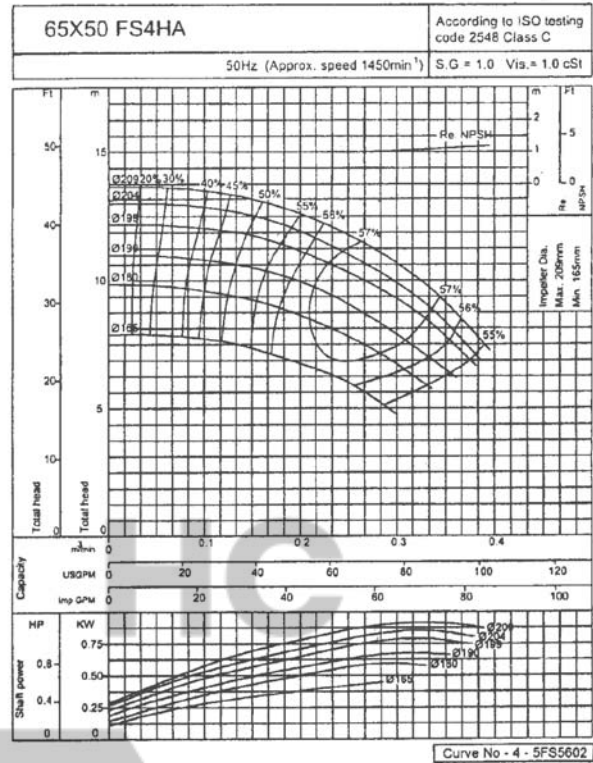
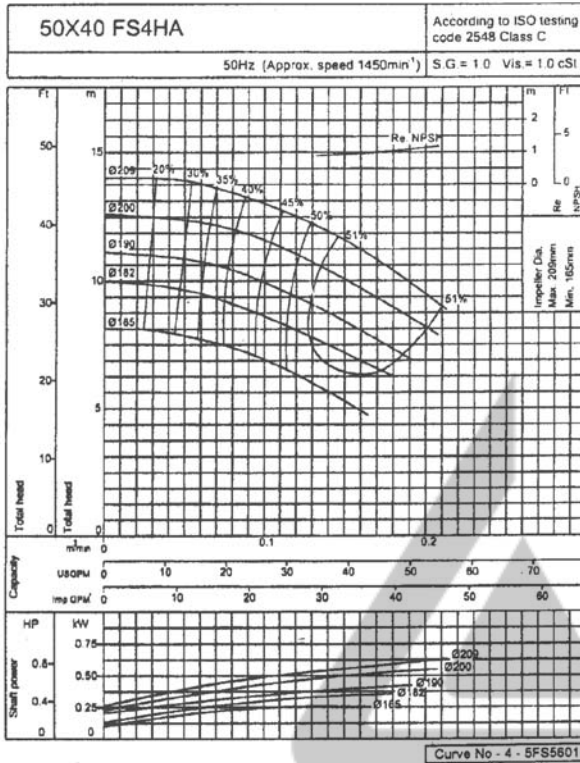


Dimension – Pump

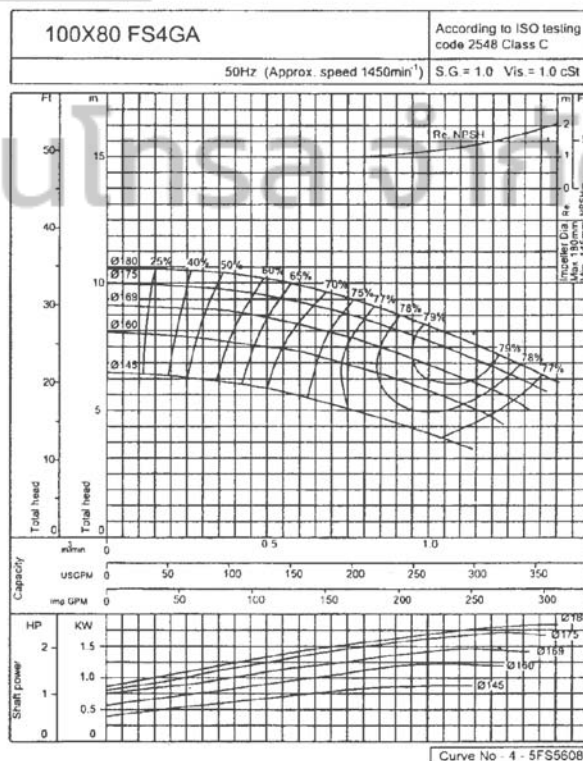
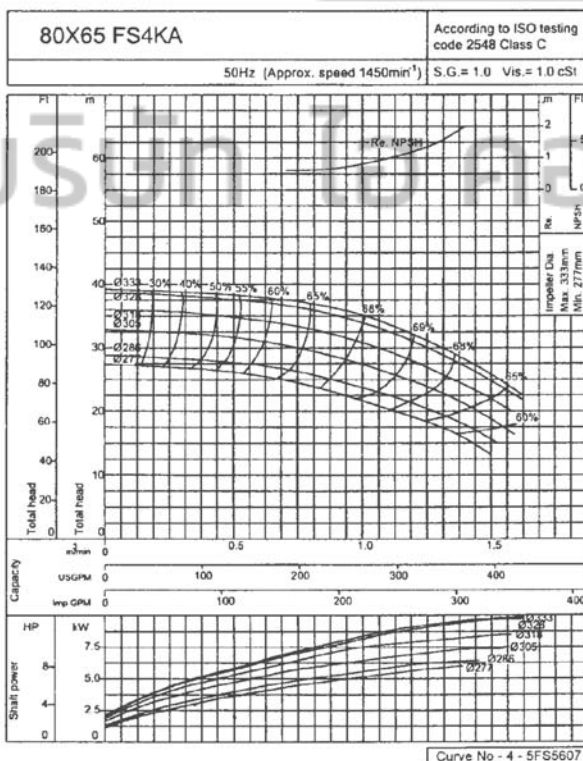
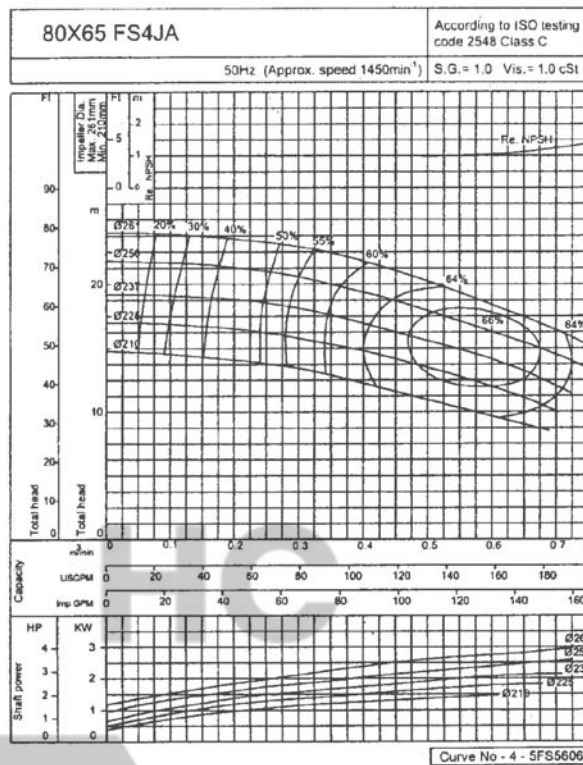
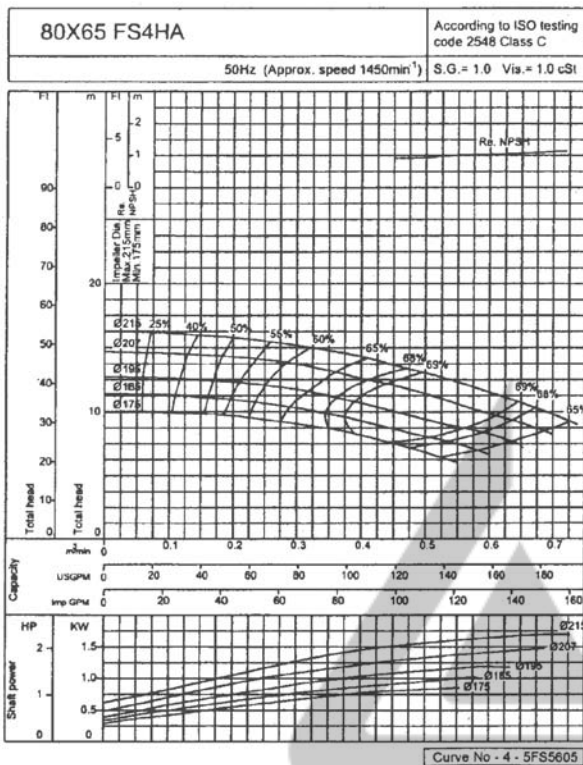
Model	Motor		Size		Pump				Motor				Common Base								Total			
	kW	Ø1	Ø2	A	B	D	wt kg	Frame	MR	MA	wt kg	BG	BJ	BL	BM	BN1	BN2	BY1	BY2	n-Fd	wt kg	t	L	wt kg
100X65 FS2KA	55	100	65	125	360	280	49	250SA	463.5	419	452	395	50	1190	770	175	245	540	600	4-M20	95	4	1371.5	614.5
	75							250MA	482.5	438	525		65	1220	850	195	195				100		1409.5	692.5
	90							280SA	514	478	600		125	1430		235	235				115		1666	827
150X100 FS2KA	110	150	100	140	530	315	62	280MA	539.5	502.5	700	430	145	1480	960	260	260	650	640	4-M20	130	4	1716	942
	132							315SA	559	527.0	920		155	1500		270	270				175		1760	1212

Unit : mm, unless otherwise stated

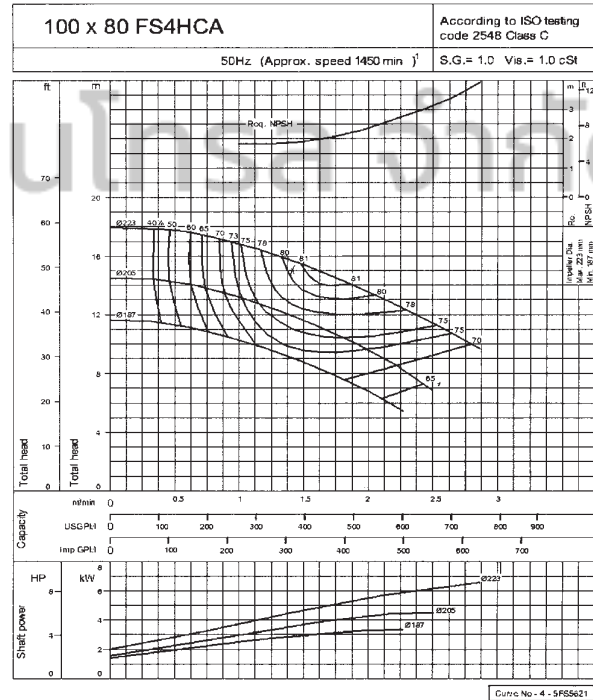
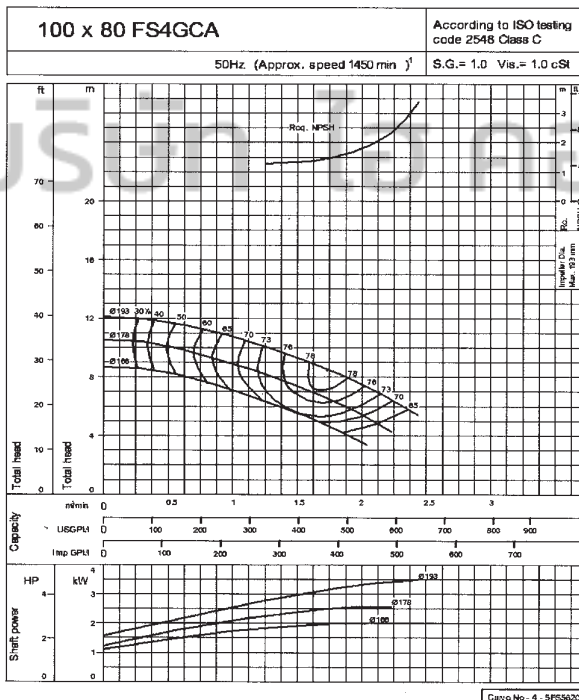
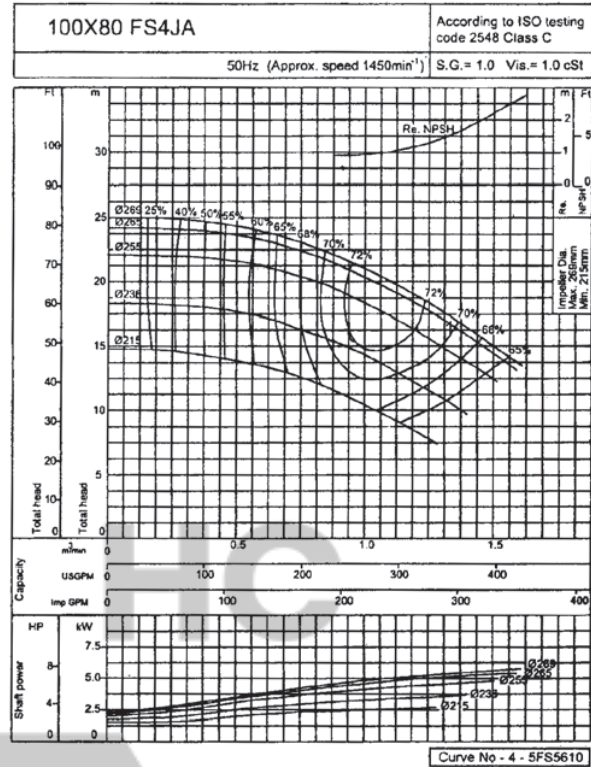
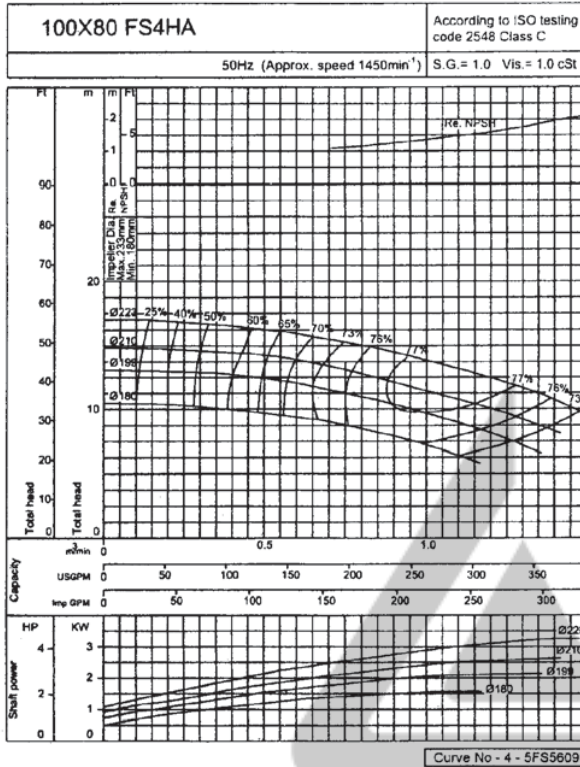
PERFORMANCE CURVE

1450 min⁻¹


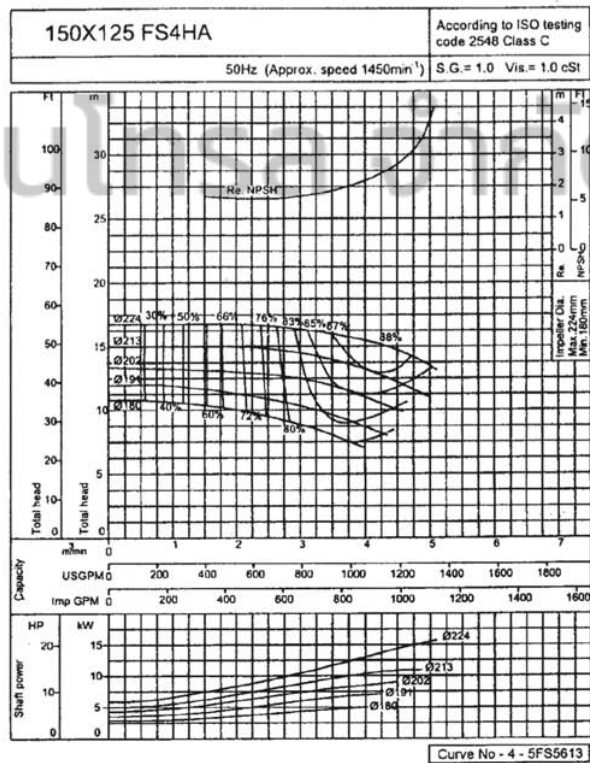
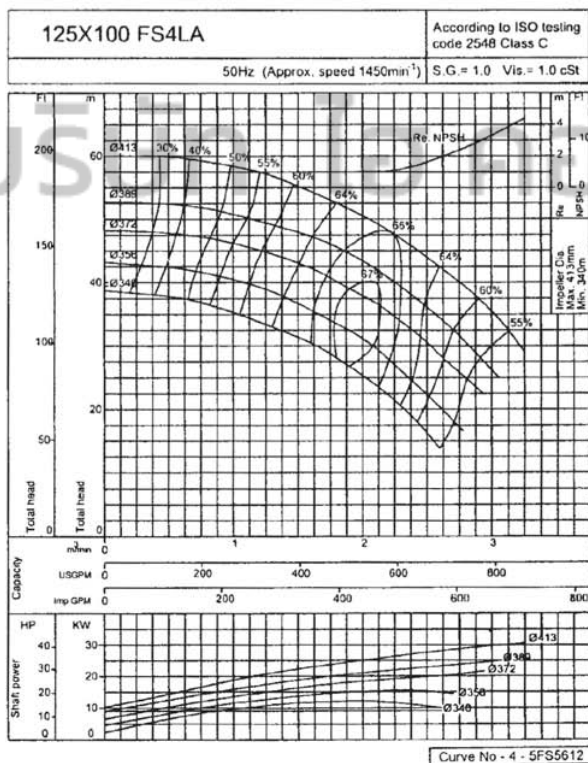
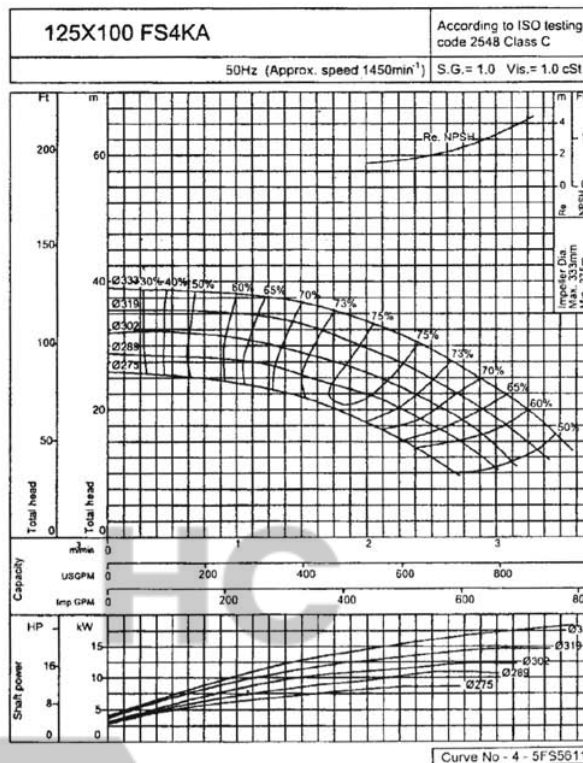
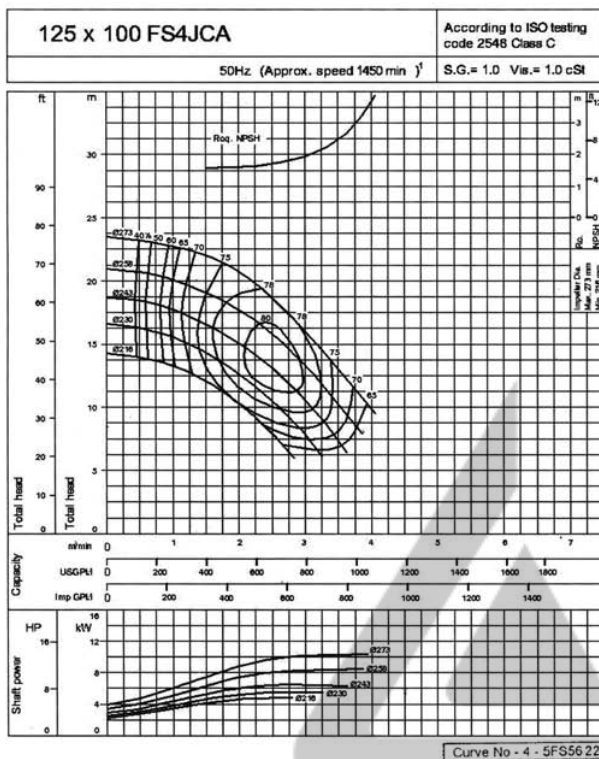
PERFORMANCE CURVE

1450 min⁻¹


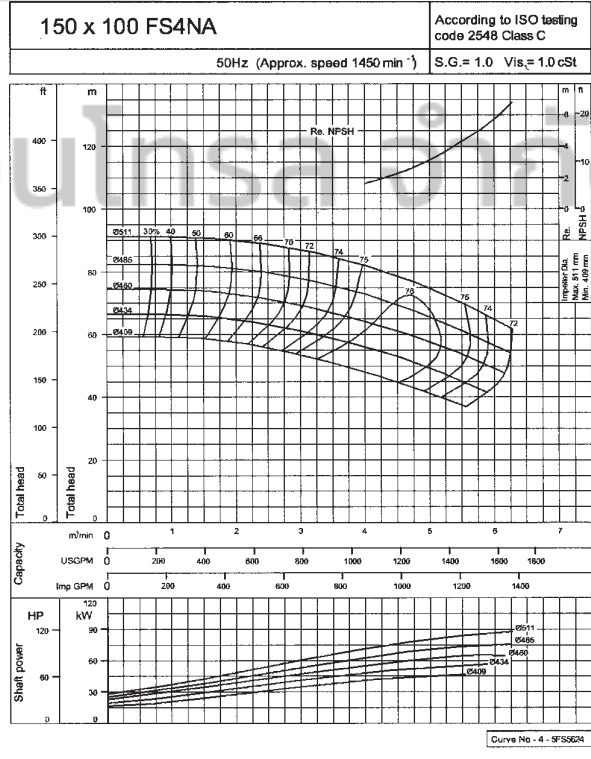
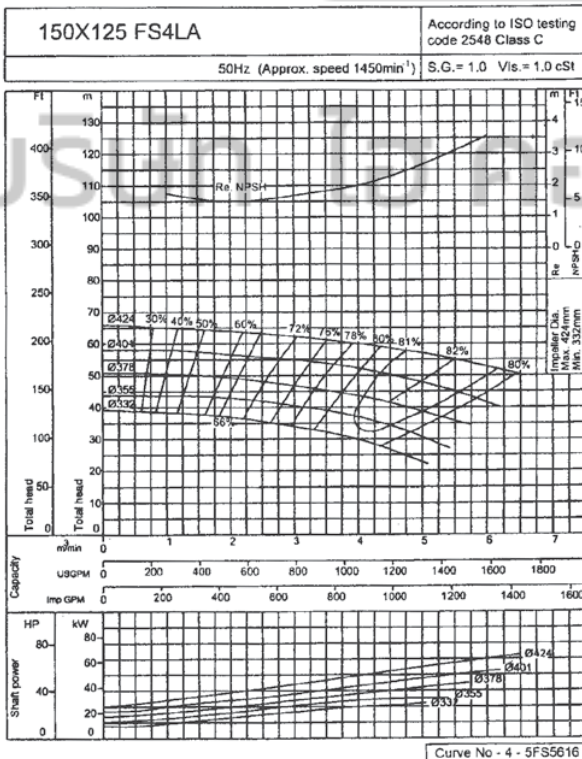
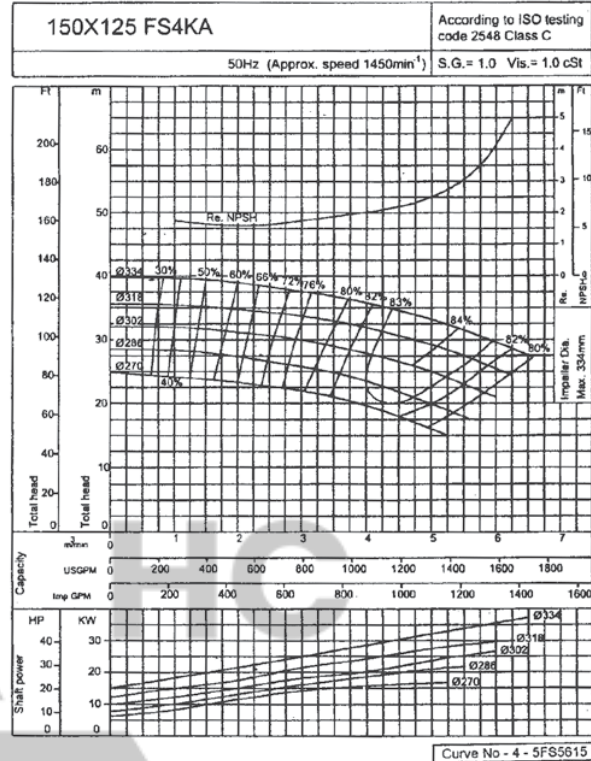
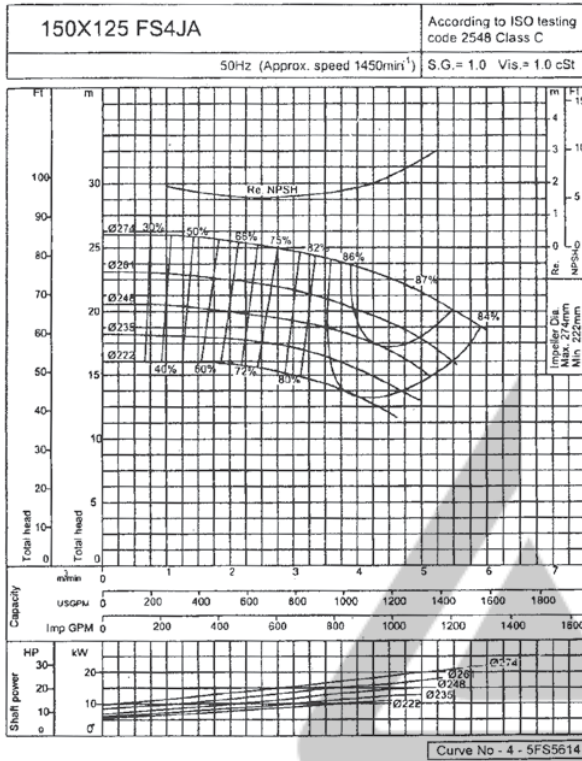
PERFORMANCE CURVE

1450 min⁻¹


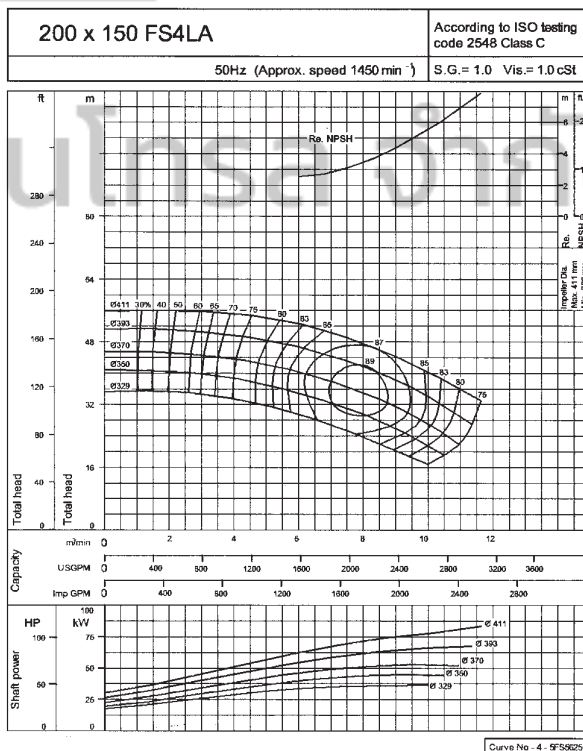
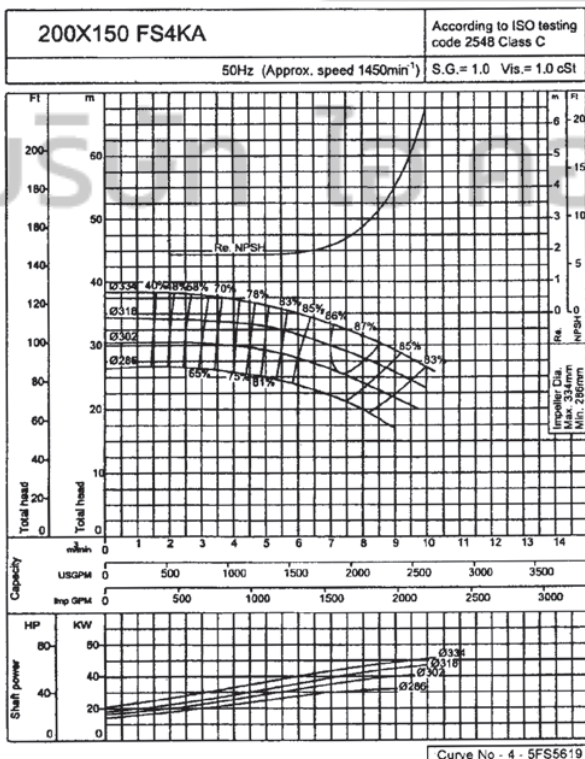
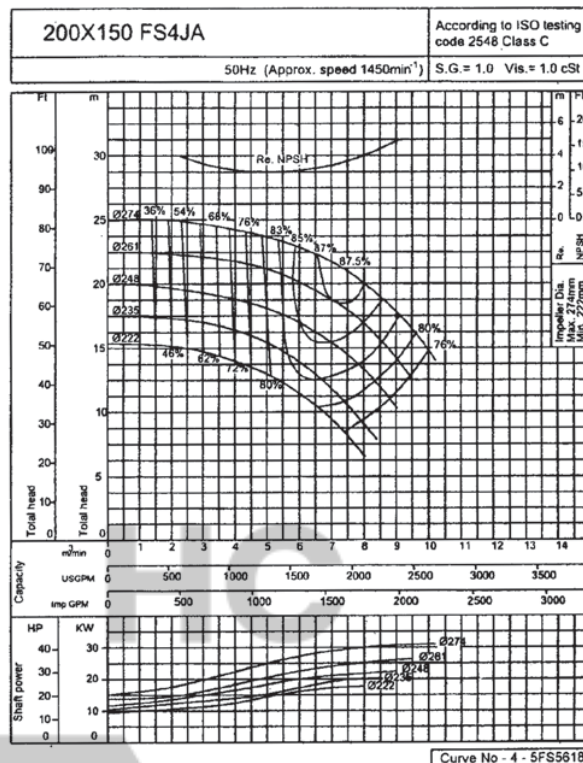
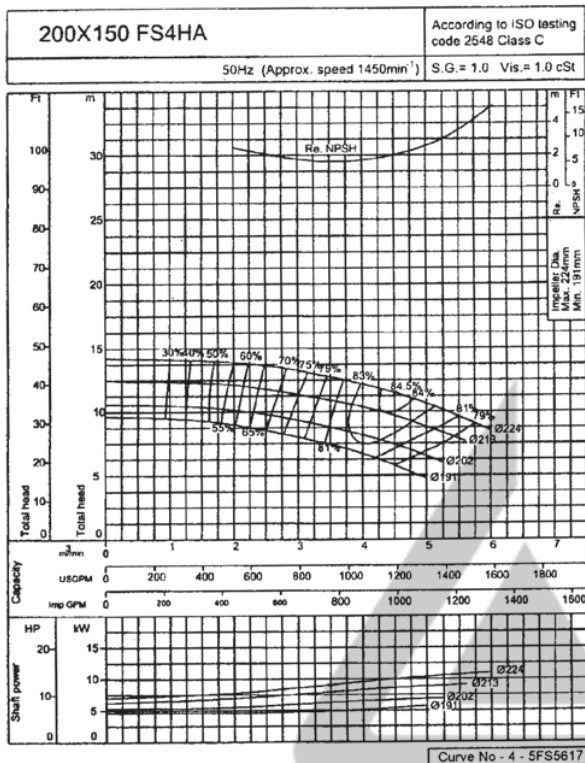
PERFORMANCE CURVE

1450 min⁻¹


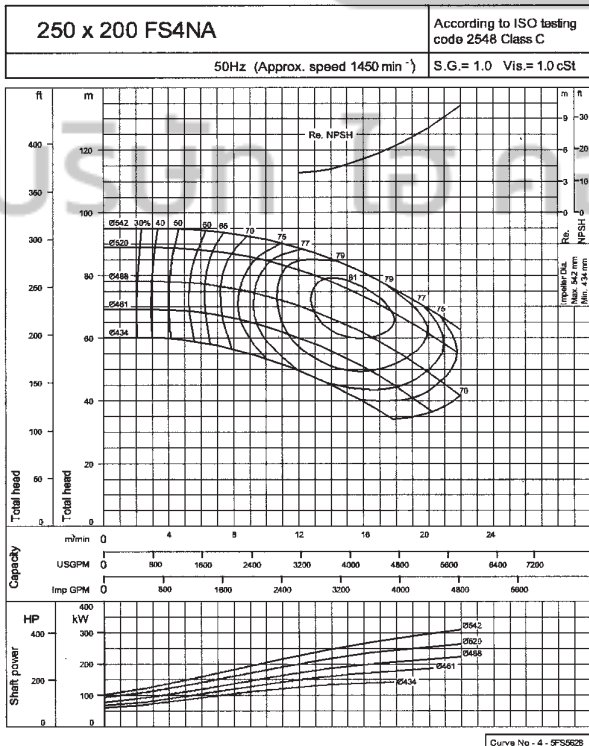
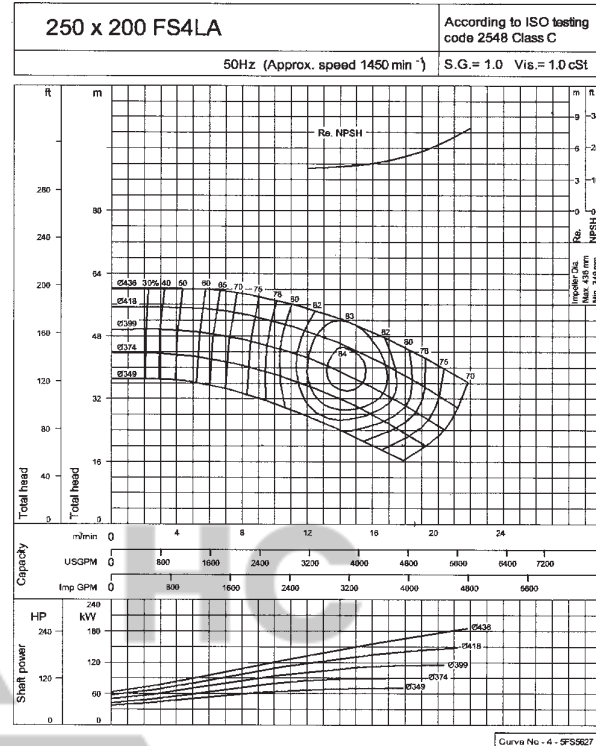
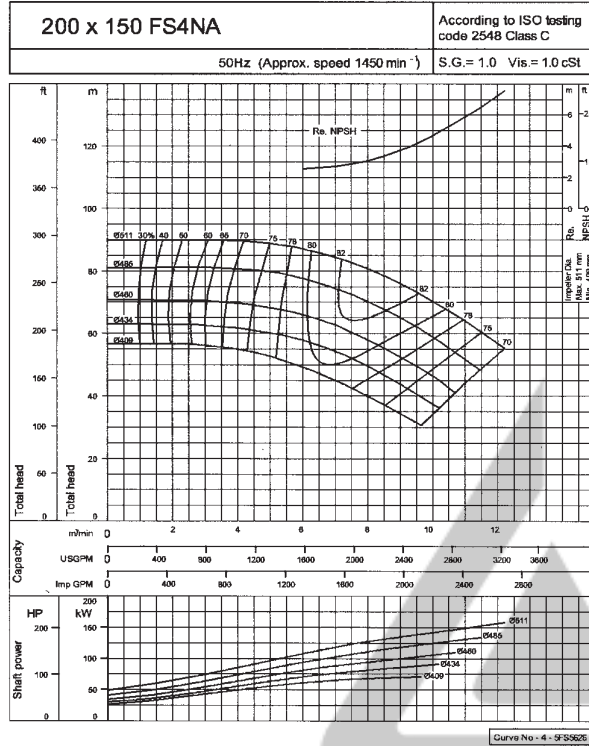
PERFORMANCE CURVE

1450 min⁻¹


PERFORMANCE CURVE

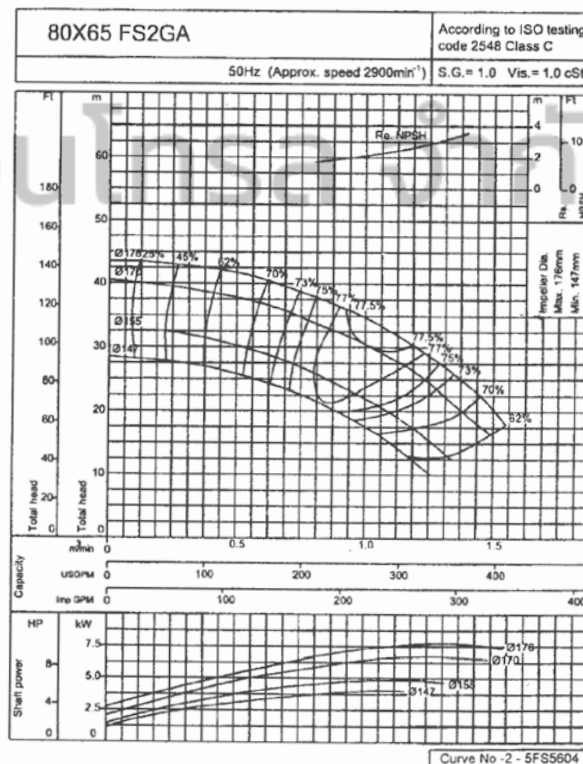
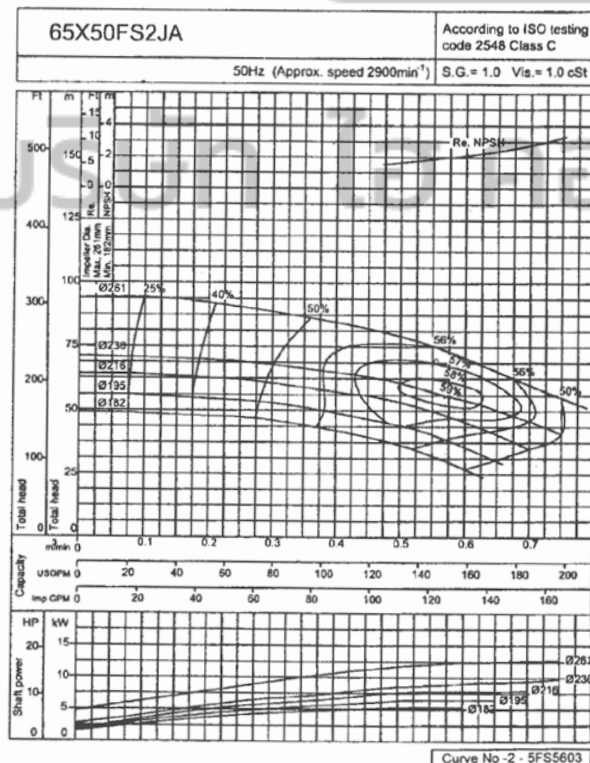
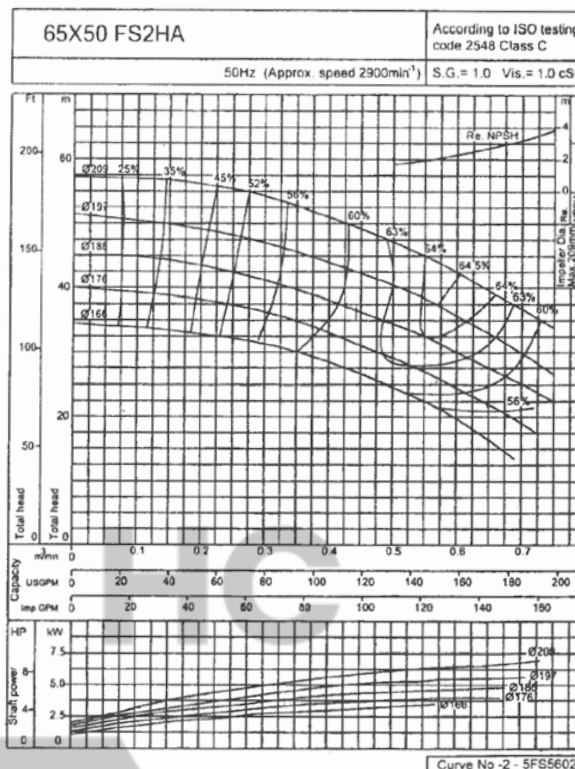
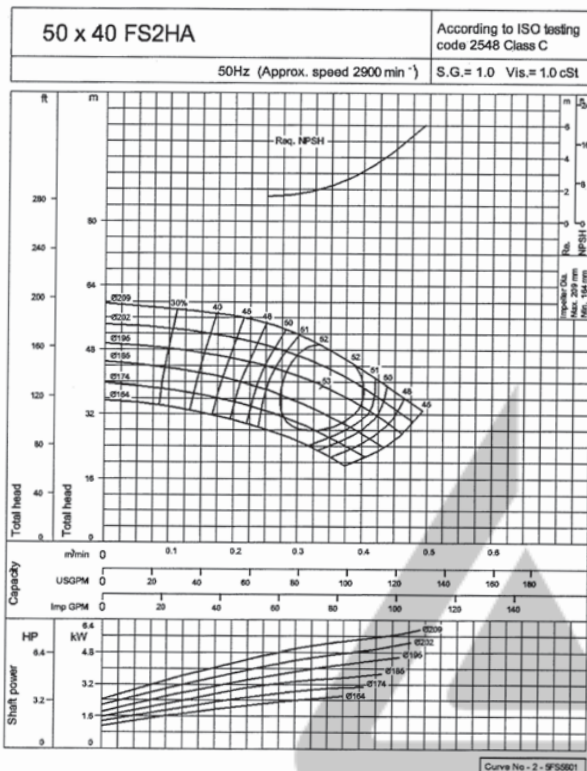
1450 min⁻¹


PERFORMANCE CURVE

1450 min⁻¹


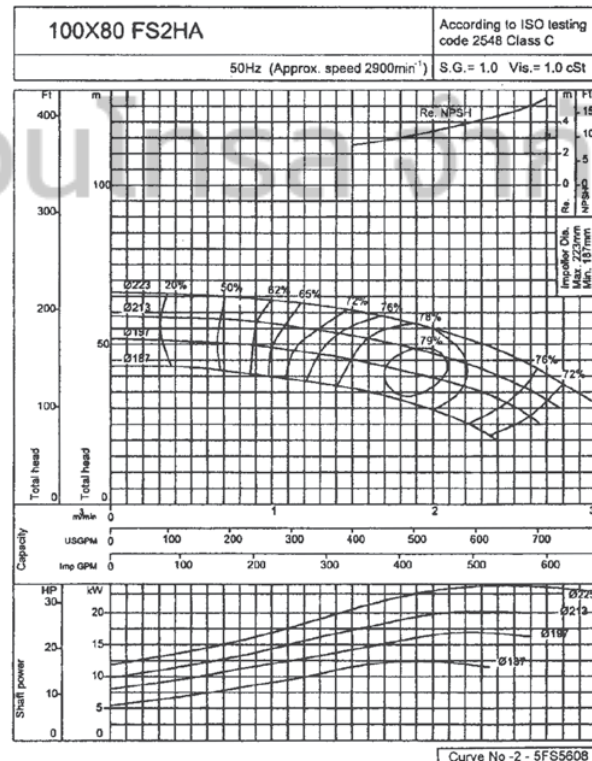
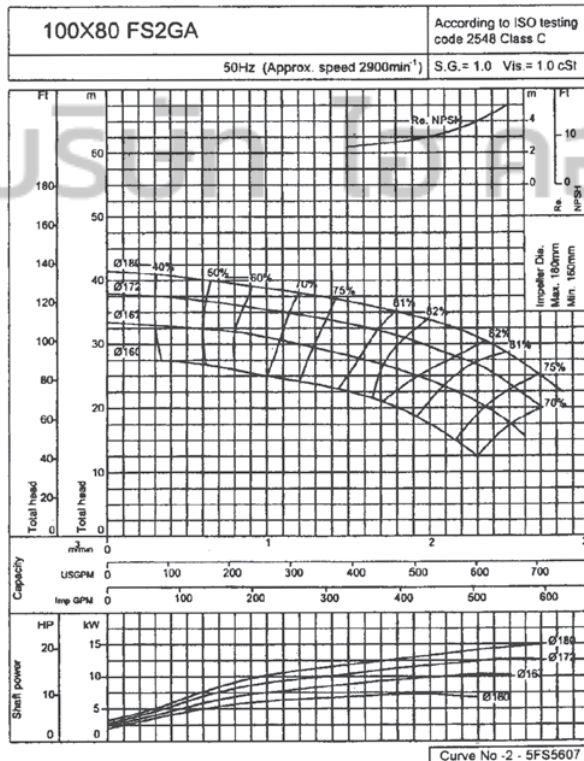
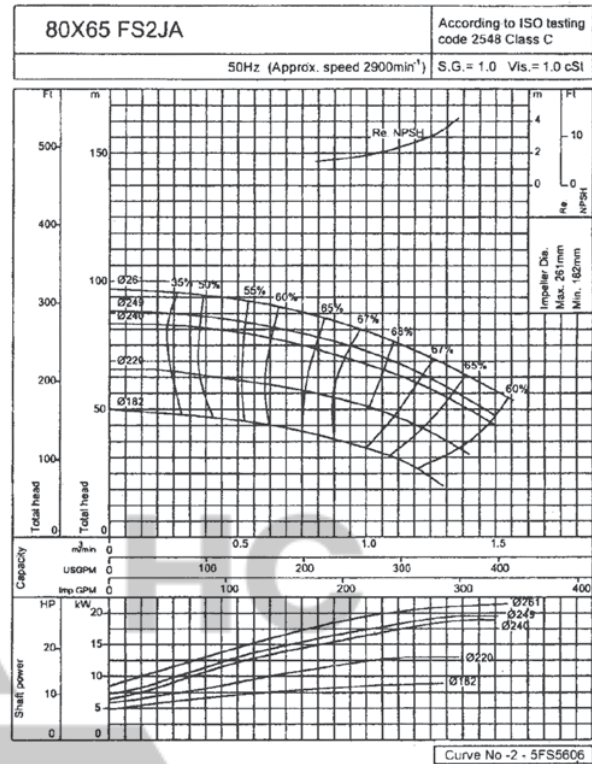
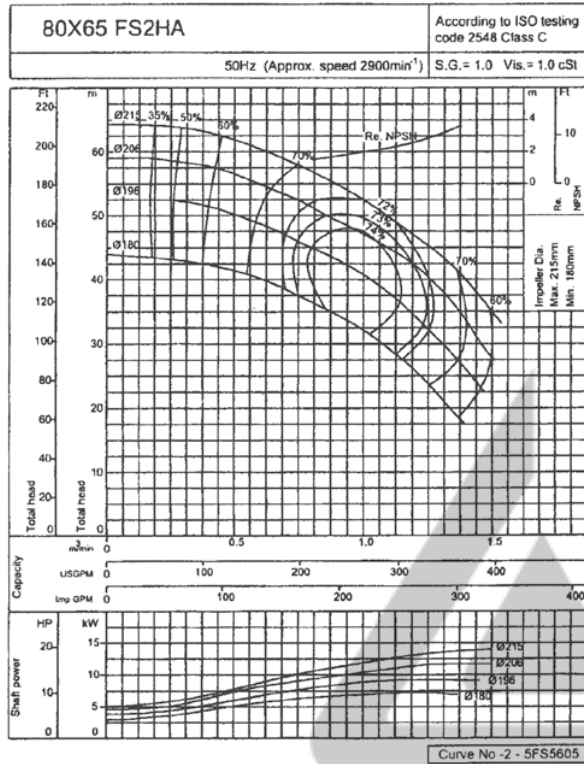
บริษัท ไทย คอนโทรล จำกัด.

PERFORMANCE CURVE

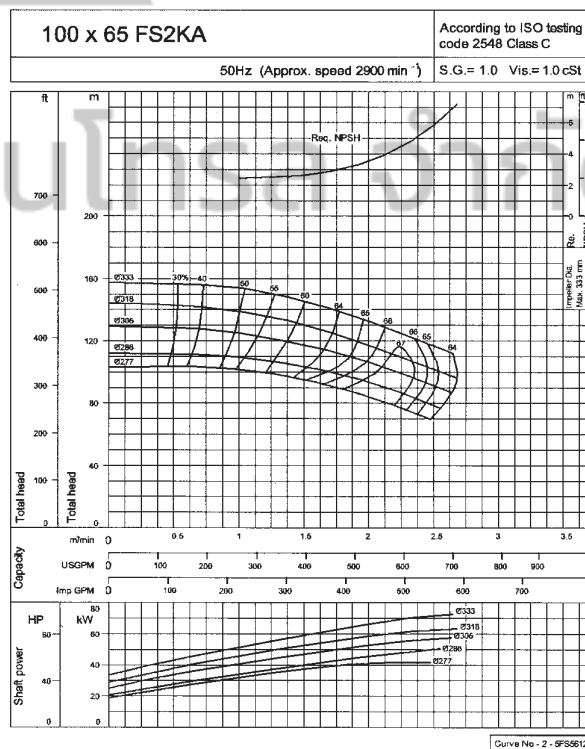
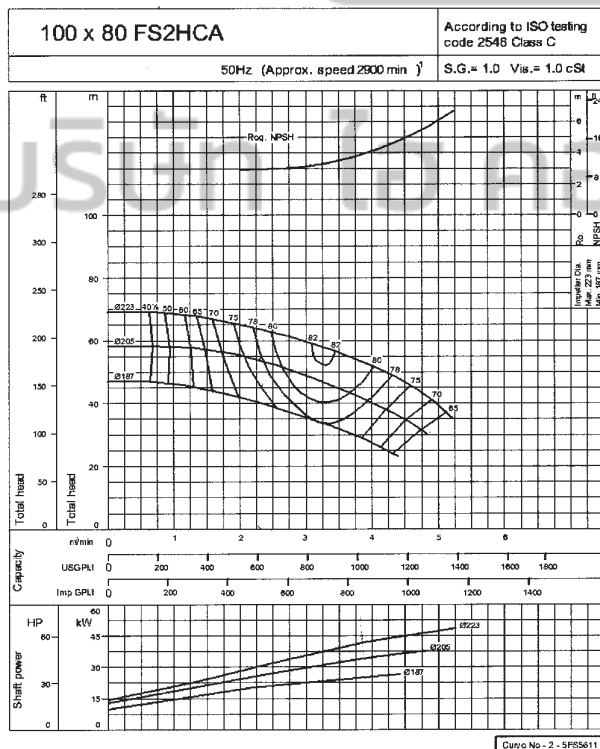
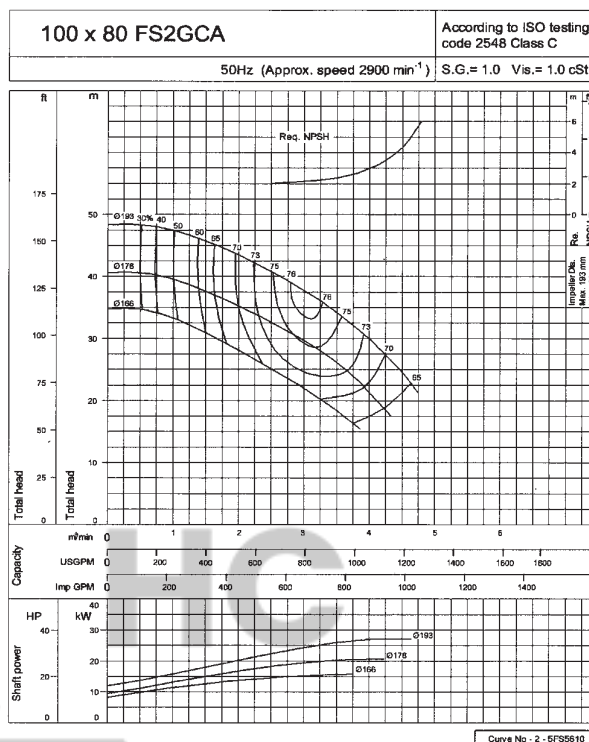
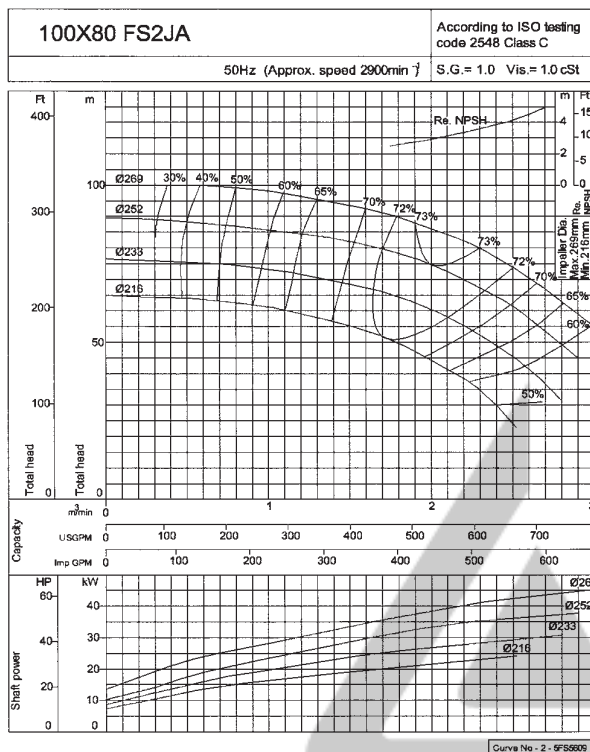
2900 min⁻¹


PERFORMANCE CURVE

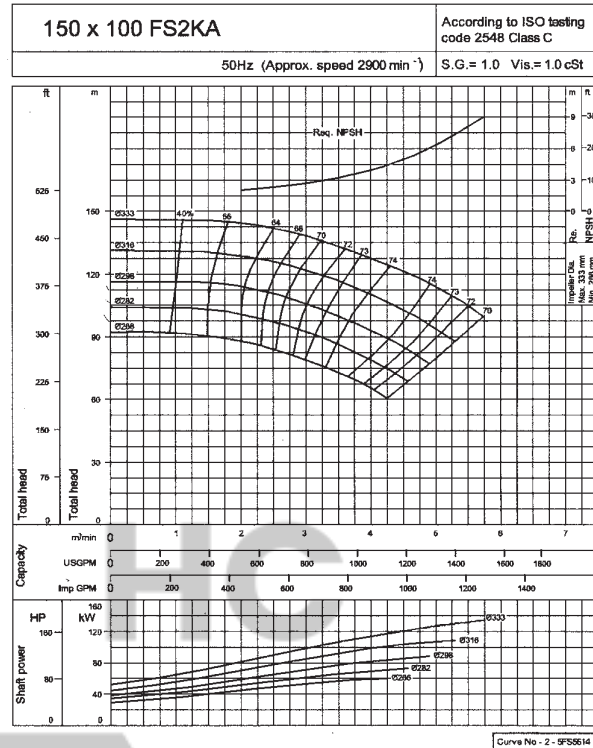
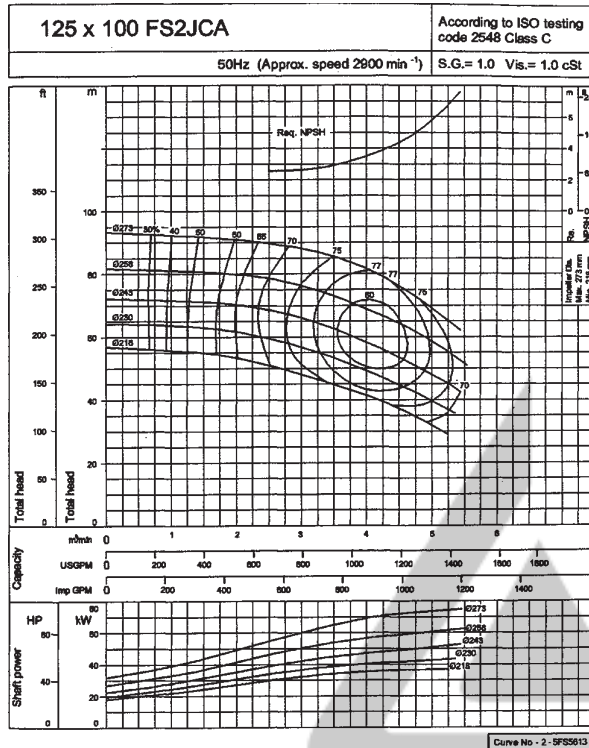
2900 min⁻¹



PERFORMANCE CURVE

2900 min⁻¹


PERFORMANCE CURVE

2900 min⁻¹


บริษัท ไฮ คอนโทรล จำกัด.