

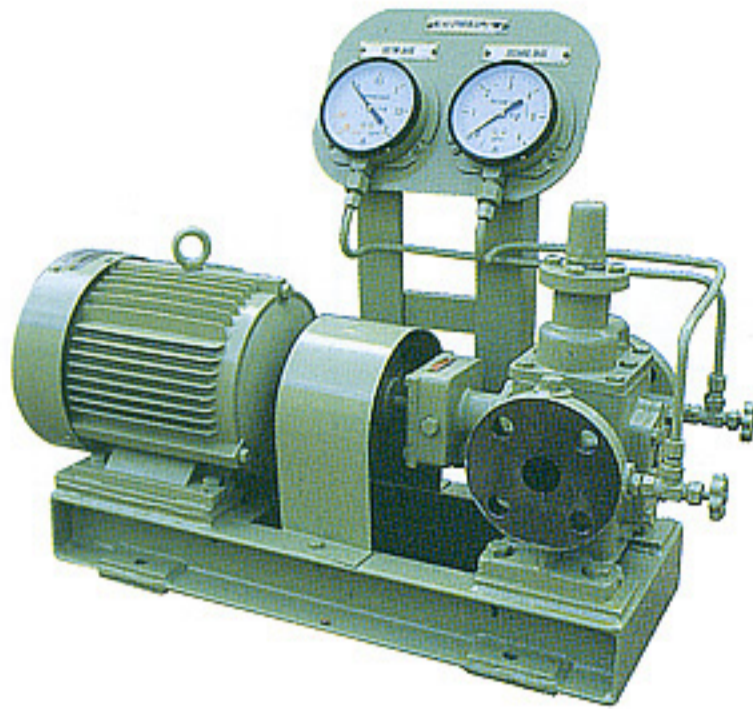
SHIN SHIN MARINE



 SHIN SHIN MACHINERY CO., LTD.

NLG/NHG GEAR PUMP

Horizontal in-line gear pump



■ Applications

- H.F.O/L.O Supply pump for M/E, G/E
- H.F.O Purifier service pump for M/E,G/E
- H.F.O Booster pump for M/E,G/E
- H. F. O Circulation pump for M/E, G/E, Boiler
- H. F. O Trans. pump
- L.O priming pump for M/E,G/E
- Others

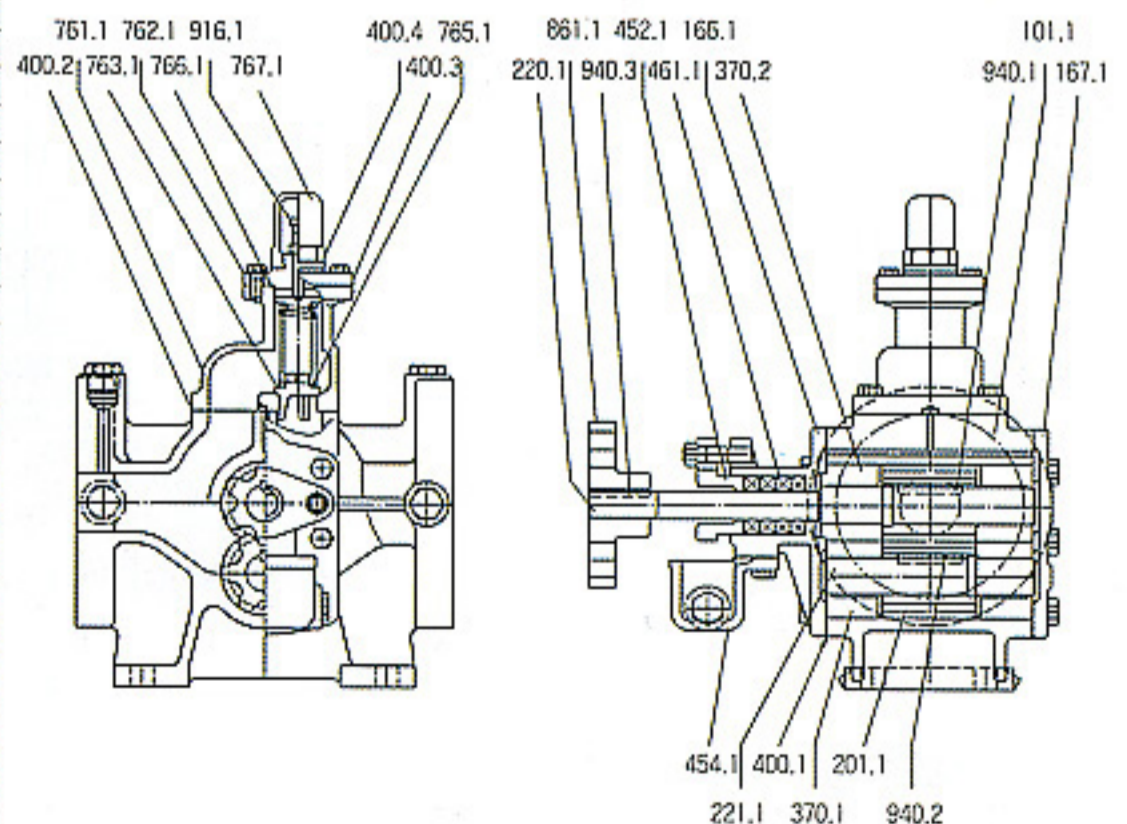
■ Principal Particulars

Item	Model	0.5	1	1.5	2	2.5	3	4	5	6	7.5	10	12	15	20	25	30	
Rotation		Clockwise viewed from driver end																
Suction & Discharge bore(mm)	NHG/	S	32 φ	20 φ	25 φ	32 φ			40 φ		50 φ		65 φ		80 φ			
	NLG	D	25 φ	20 φ	25 φ	32 φ			40 φ		50 φ		65 φ		80 φ			
Standard Capacity(m ³ /hr)	50Hz	6P	0.41	0.8	1.2	1.6	2	2.5	3.3	4	5	6	8	10	12	16	20	25
		4P	0.62	1.2	1.8	2.5	3	3.7	5	6	7.5	9	12	15	18	25	30	
	60Hz	6P	0.5	1	1.5	2	2.5	3	4	5	6	7.5	10	12	15	20	25	30
		4P	0.75	1.5	2.2	3	3.7	4.5	6	7.5	9	11	15	18	22	30		
Pressure(kg/cm ²)		Up To 6 kg/cm ²																
Stuffing box seal		Gland Packing or Mechanical Seal																
Weight(kg)		Refer to the Outline Drawing																

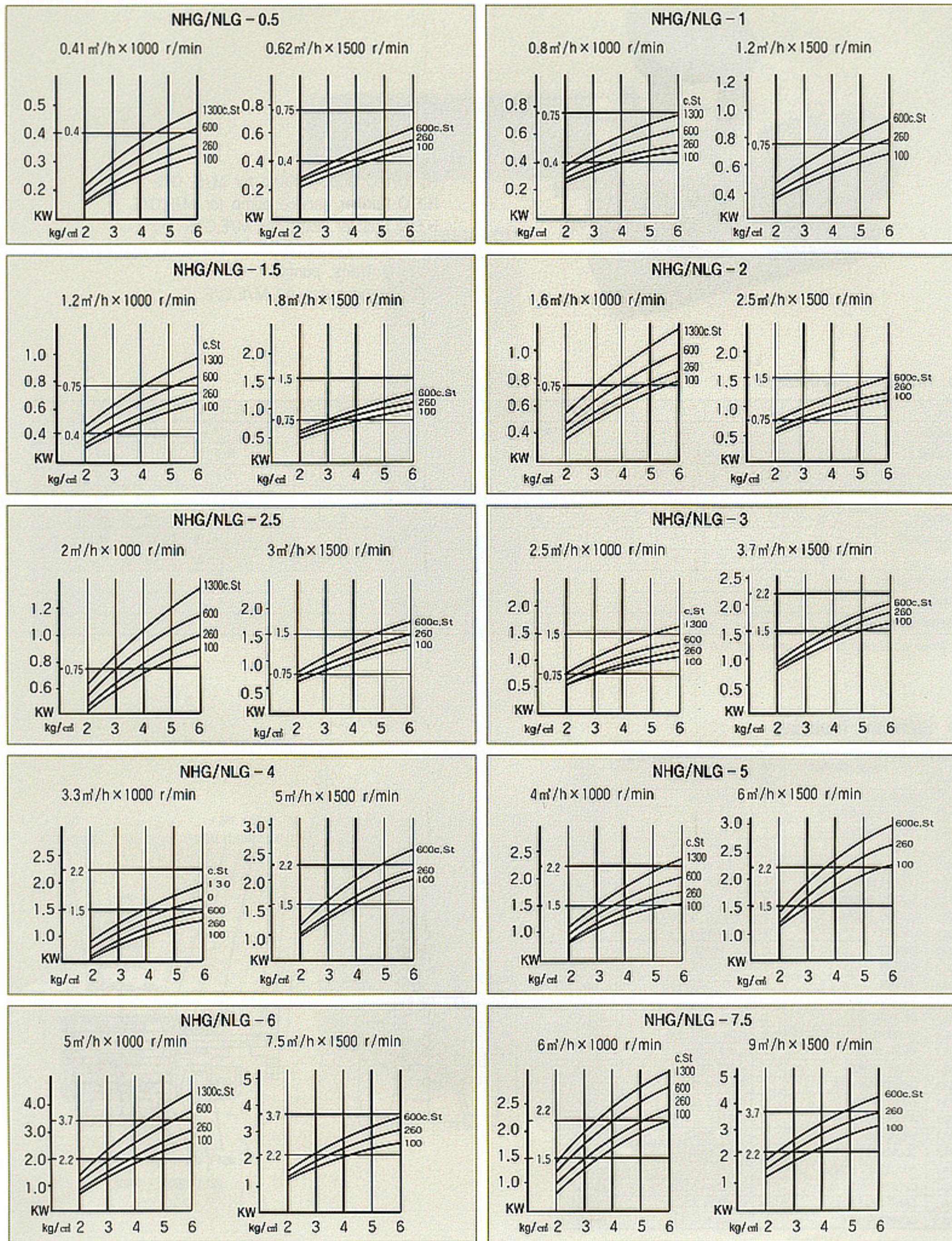
* Model 0.5 is NHG Type, the others are NLG Type

■ Standard Materials

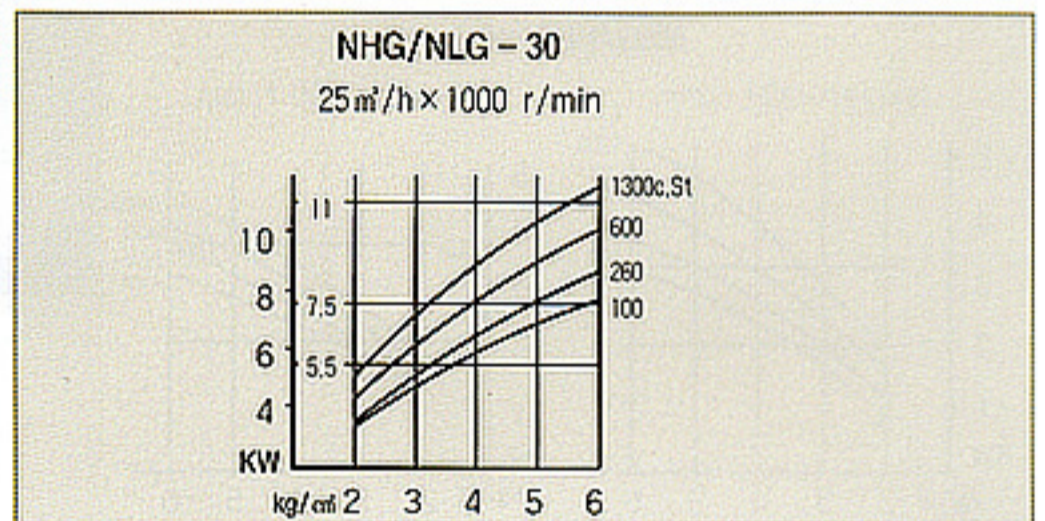
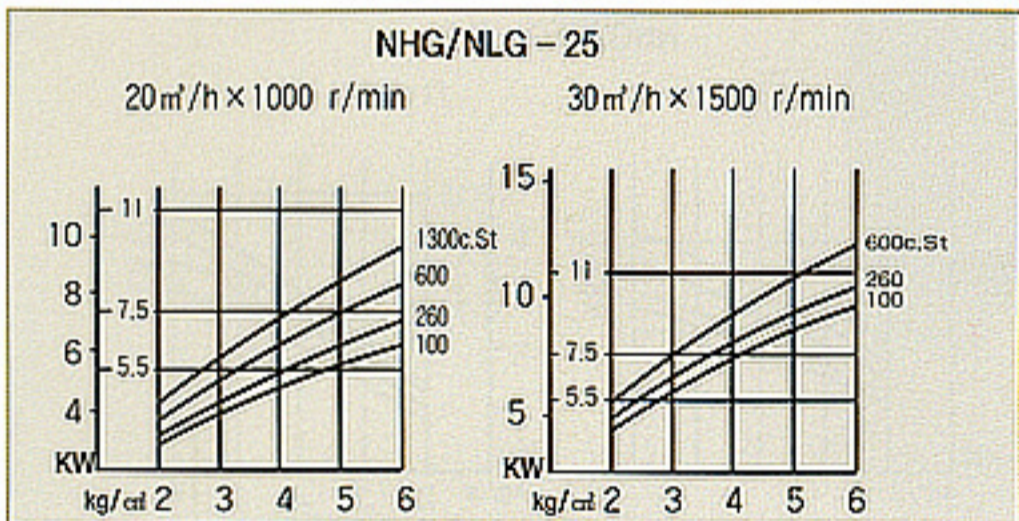
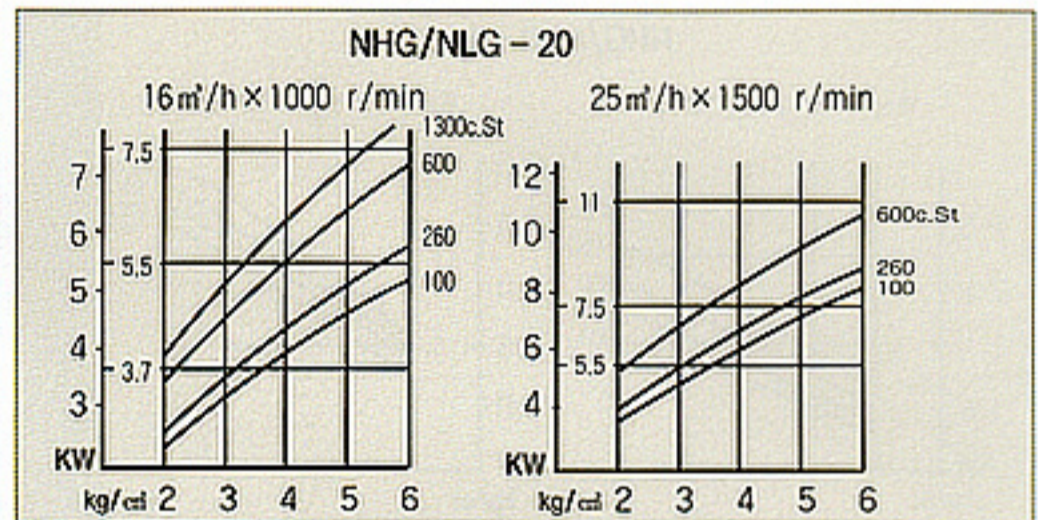
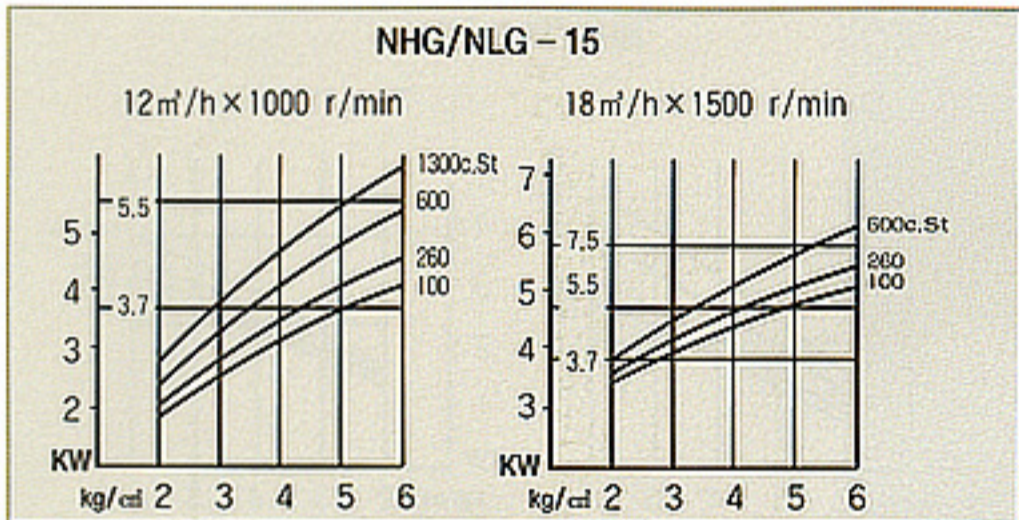
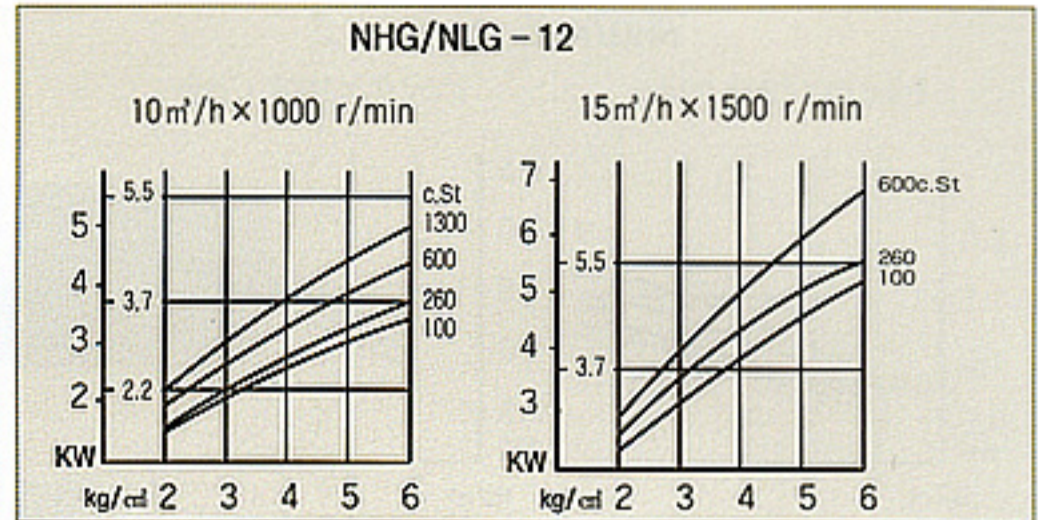
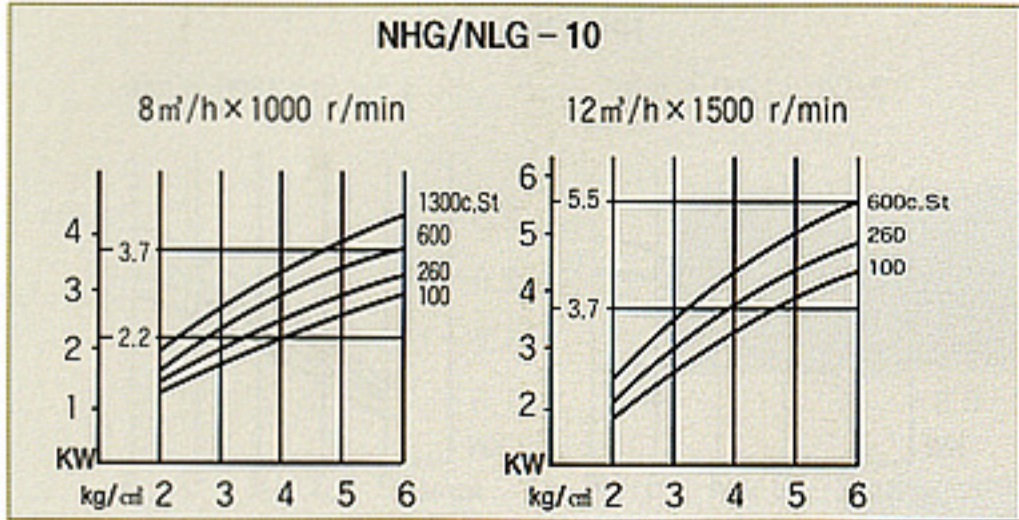
Part No.	Name Of Part	REQ. NO. FOR PUMP	MATERIAL	
			Name	KS
101.1	PUMP CASING	1	CAST IRON	GC200
166.1	SIDE COVER(INNER)	1	CAST IRON	GC200
167.1	SIDE COVER(OUTER)	1	CAST IRON	GC200
201.1	GEAR	2	CARBON STEEL	SM45C
220.1	DRIVE SHAFT	1	CARBON STEEL	SM45C
221.1	DRIVEN SHAFT	1	CARBON STEEL	SM45C
370.1	SLIDING BEARING	3	LEADED TIN BRONZE	LBC4
370.2	SLIDING BEARING	1	LEADED TIN BRONZE	LBC4
400.1	GASKET	2	OIL PAPER	
400.2	GASKET	1	OIL PAPER	
400.3	GASKET	1	OIL PAPER	
400.4	GASKET	1	NON ASBESTOS	
452.1	PACKING GLAND	1	CAST IRON	GC200
454.1	OIL PAN	1	CAST IRON	GC200
461.1	PACKING	4	NON METALLIC	
761.1	VALVE BODY	1	CAST IRON	GC200
762.1	VALVE COVER	1	CAST IRON	GC200
763.1	SAFETY CARRIER	1	BRONZE	BC6
765.1	VALVE SPRING	1	SPRING STEEL	SPS6
766.1	SPRING CARRIER	1	STEEL	SS41
767.1	VALVE CAP		CAST IRON	GC200
861.1	COUPLING HALF	1	CAST IRON	GC200
916.1	ADJUSTING SCREW	1	STEEL	SS41
940.1	DRIVEN SHAFT KEY	1	CARBON STEEL	SM45C
940.2	DRIVE SHAFT KEY	1	CARBON STEEL	SM45C
940.3	COUPLING KEY	1	CARBON STEEL	SM45C



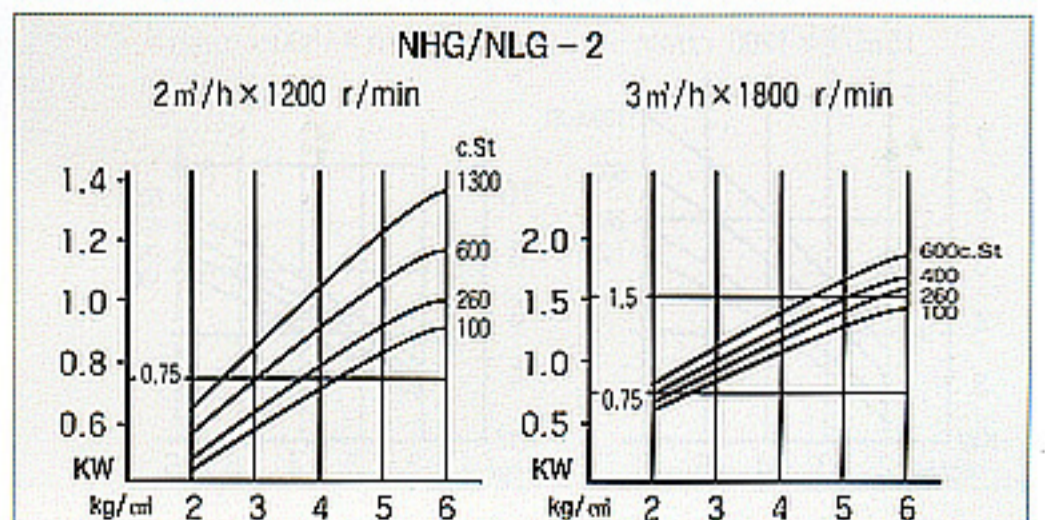
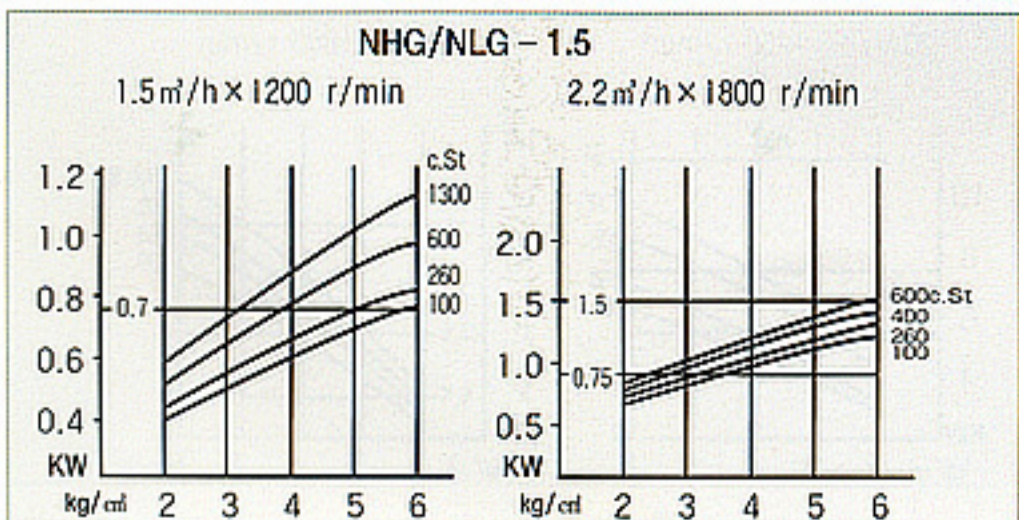
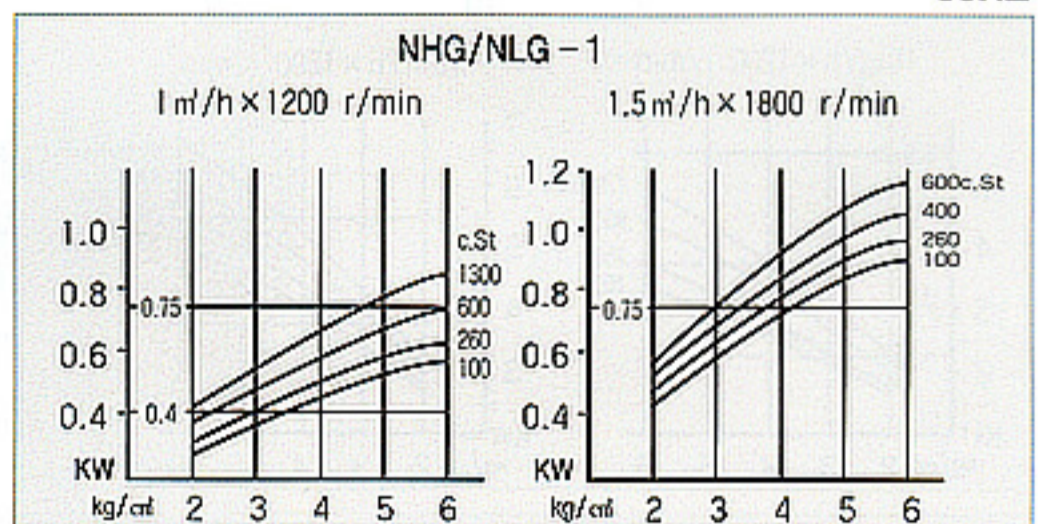
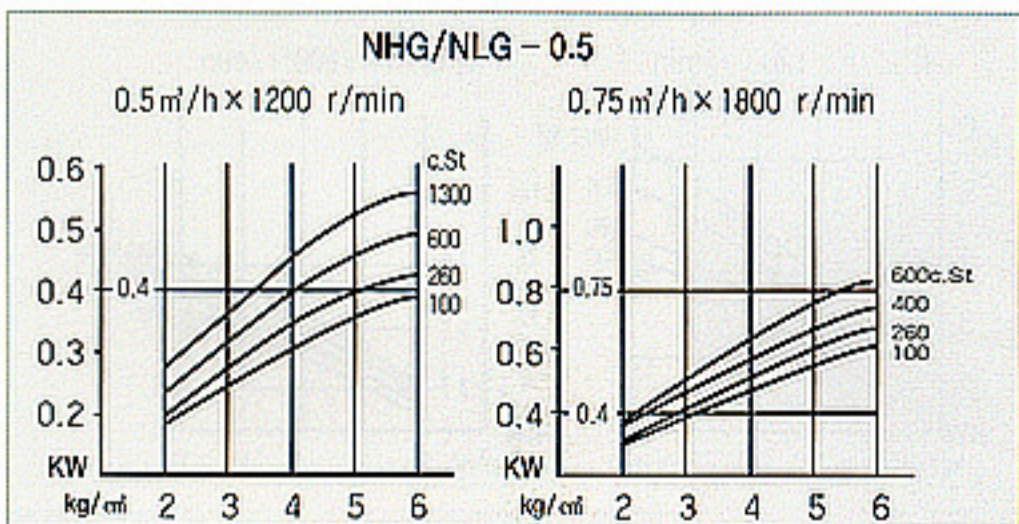
■ Selection Chart



50HZ



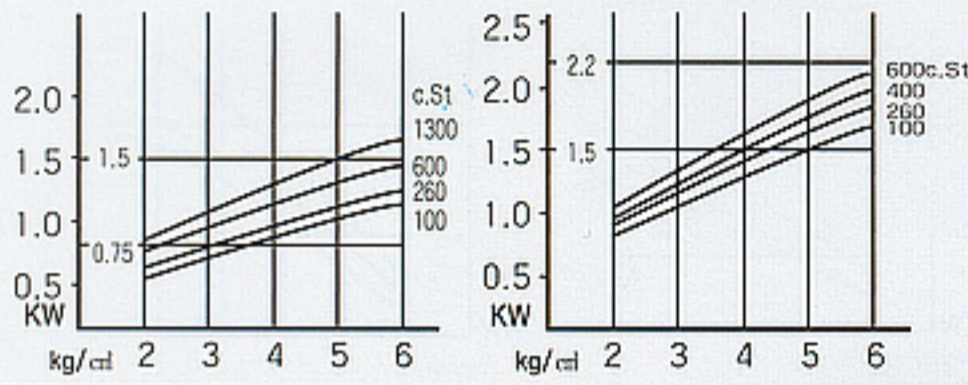
60HZ



NHG/NLG - 2.5

2.5 m³/h × 1200 r/min

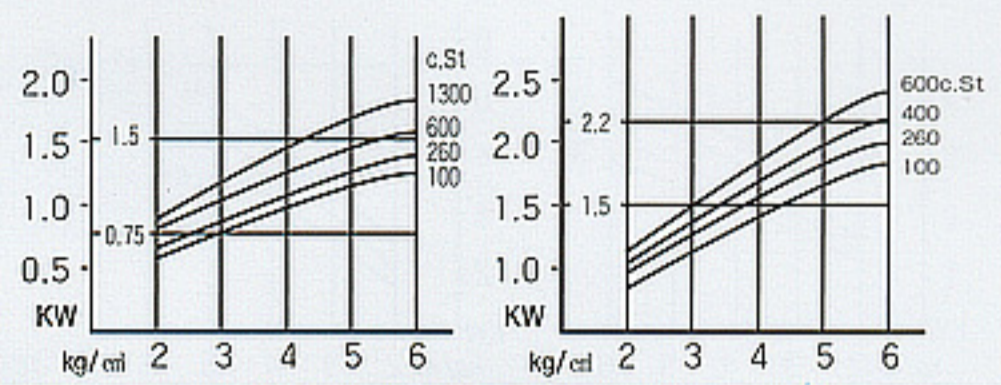
3.7 m³/h × 1800 r/min



NHG/NLG - 3

3 m³/h × 1200 r/min

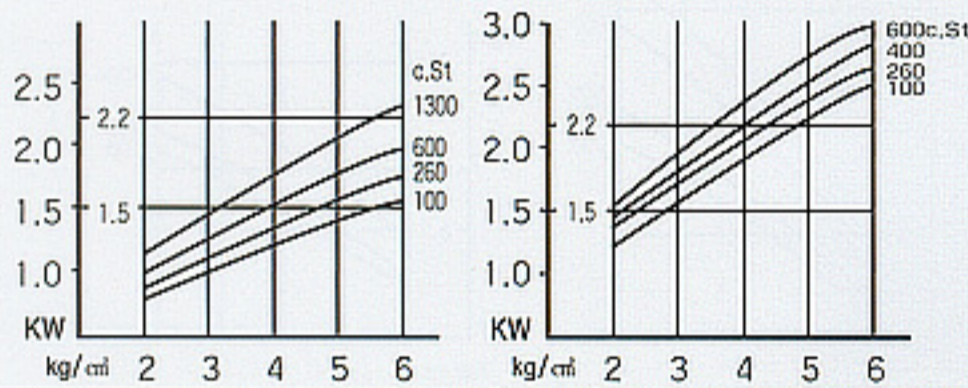
4.5 m³/h × 1800 r/min



NHG/NLG - 4

4 m³/h × 1200 r/min

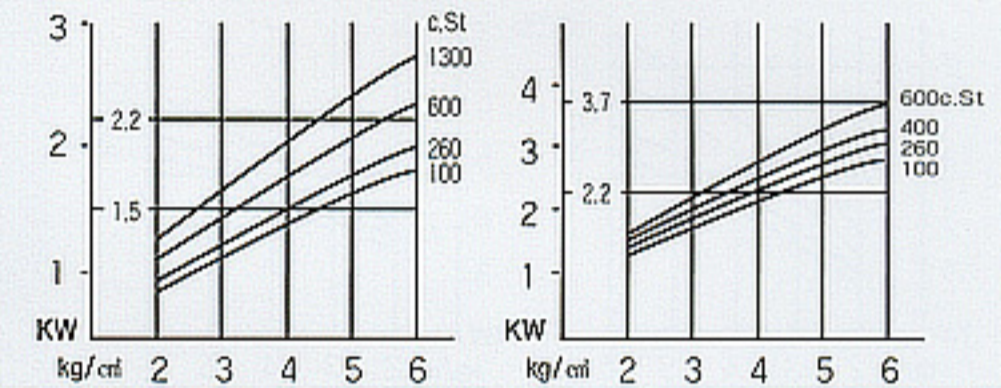
6 m³/h × 1800 r/min



NHG/NLG - 5

5 m³/h × 1200 r/min

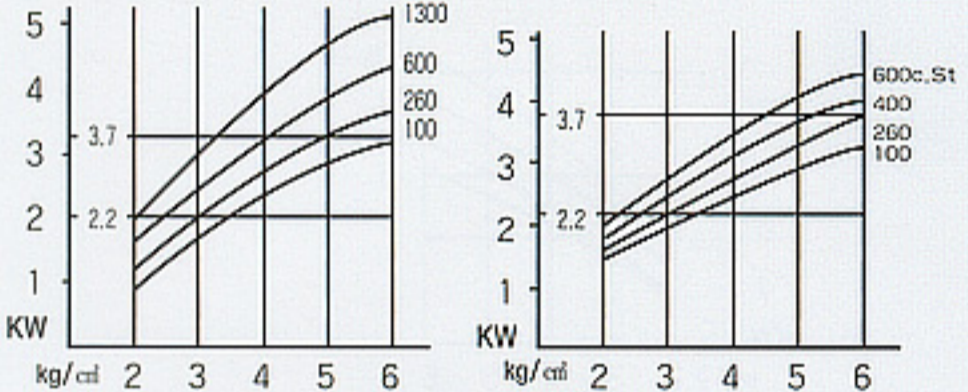
7.5 m³/h × 1800 r/min



NHG/NLG - 6

6 m³/h × 1200 r/min

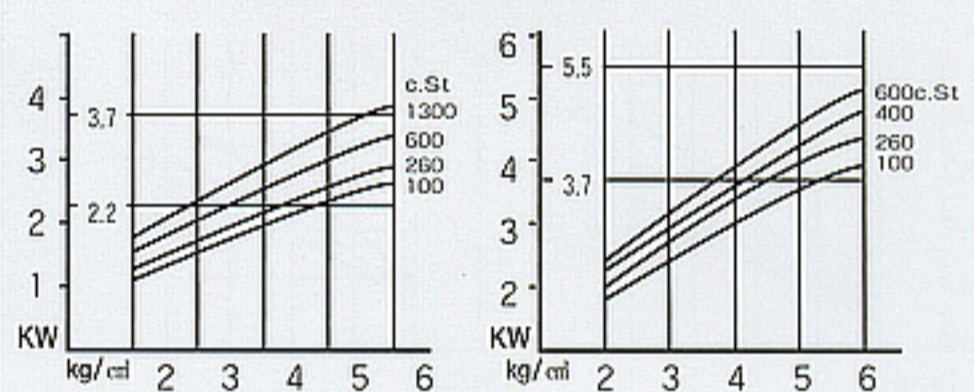
9 m³/h × 1800 r/min



NHG/NLG - 7.5

7.5 m³/h × 1200 r/min

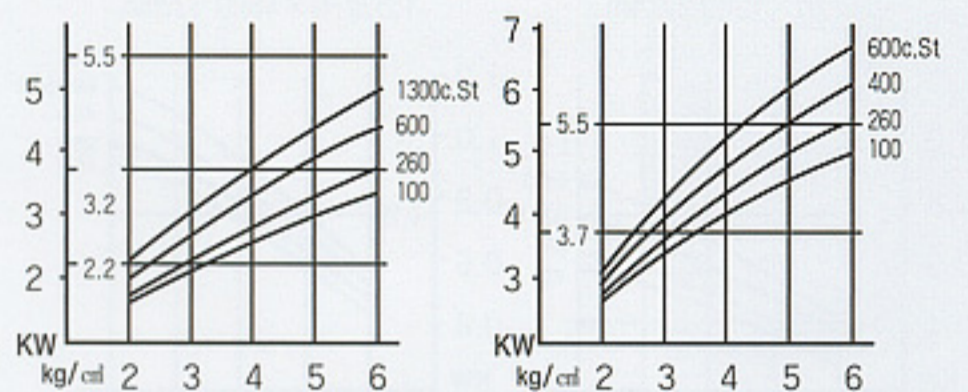
11 m³/h × 1800 r/min



NHG/NLG - 10

10 m³/h × 1200 r/min

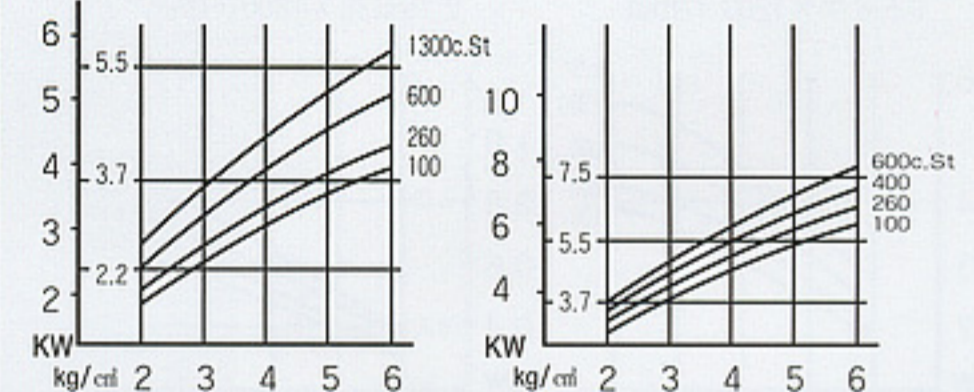
15 m³/h × 1800 r/min



NHG/NLG - 12

12 m³/h × 1200 r/min

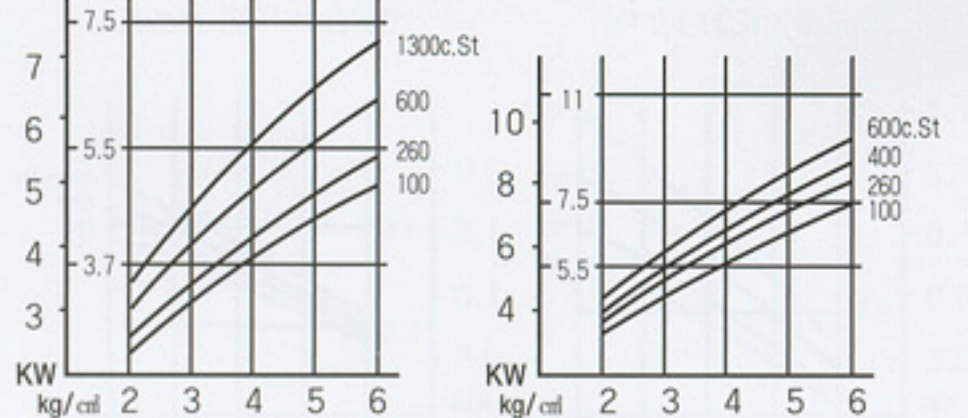
18 m³/h × 1800 r/min



NHG/NLG - 15

15 m³/h × 1200 r/min

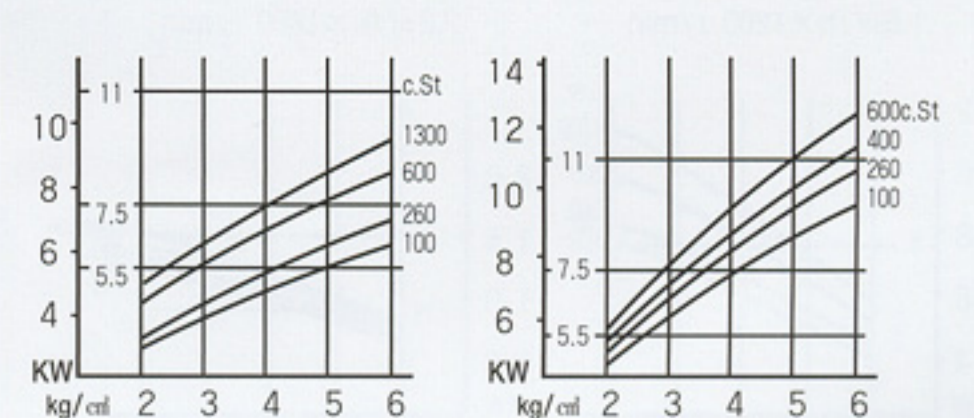
22 m³/h × 1800 r/min

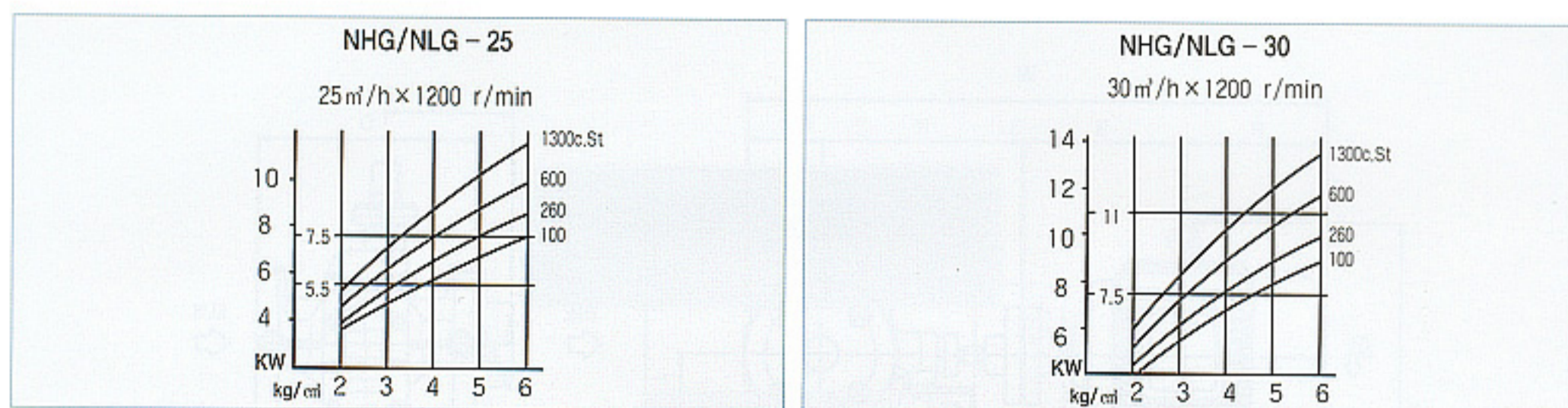


NHG/NLG - 20

20 m³/h × 1200 r/min

30 m³/h × 1800 r/min





■ Lubrication of Bearing

The metal bearing is internally set in casing which is lubricated by the pumping liquid.

■ Relief Valve

1. Relief valve is set together with casing body.
2. Capacity of relief valve

Discharge pressure maximum arising value is designed to be less than 132% of designed total pressure, even if the discharge valve is full shutted. (But when designed total pressure is less than 5 kgf/cm², the pressure-arising value should be less than 1.6kgf/cm²),

Pressure set for the relief valve

NHG, NLG type

Designed total pressure + 0.2kgf/cm²
(Highest-6.2kgf/cm² Lowest-2.2kgf/cm²)

■ Standard Accessories

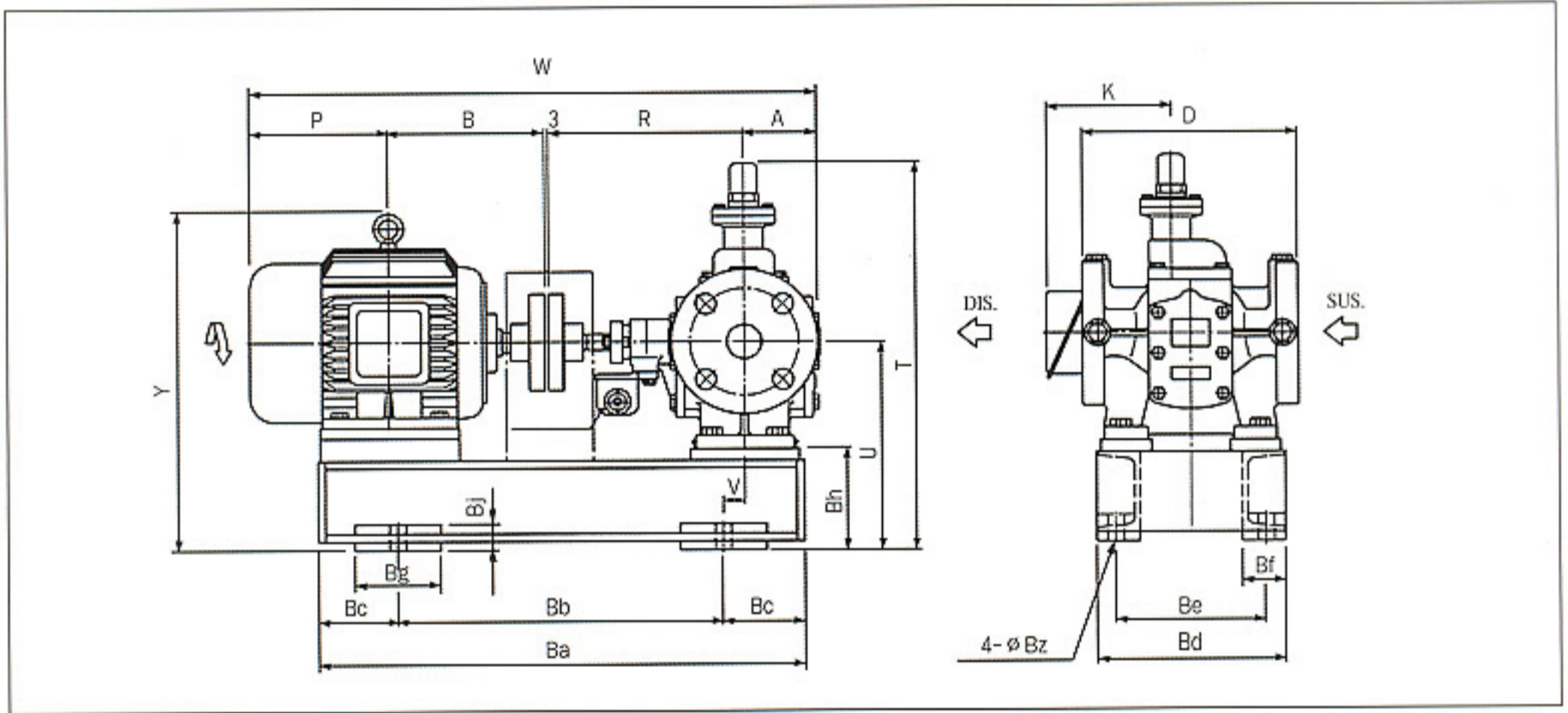
Flexible coupling.....1
Safety cover.....1
Suction gauge.....1
Discharge gauge.....1
Common base.....1

■ Standard Spare Parts

Sliding bearing.....Each1
Gland Packing /Mech Seal.....1
Bolt, Nut & Washer for flexible coupling.....1 set

NLG/NHG GEAR PUMP

Horizontal in-line gear pump



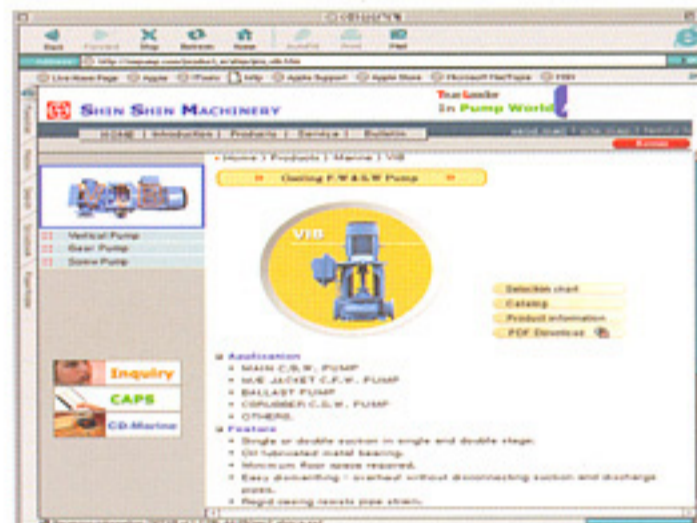
Type	Motor		Size(mm)											Base(mm)								Weight(kg)											
	6P	4P	A	B	D	K	P	R	T	U	V	W	Y	Ba	Bb	Bc	Bd	Be	Bf	Bg	Bh	Bj	Bz	Body	Base	Motor							
1	0.4	0.75	70	140	200	132	137	175	365	185	0	525	268	450	350	50	175	140	40	80	95	25	15	7	12	14							
	0.75	1.5		169		158	159				576	285	500	75												245	210	11	24				
	1.5	2.2		187		169	175				604	329	550	400												117	12	32					
	2.2	3.7		200		199	182				630	329	550	400												117	12	39					
2.5	0.75	1.5	80	169	200	158	159	180	385	195	20	591	295	500	350	75	175	140	40	80	95	25	15	14	17	24							
	1.5	2.2		187		169	180					619	329	550	400											107	14	32					
	2.2	3.7		200		199	182					645	329	550	400											107	14	39					
4	1.5	2.2	90	187	240	199	169	220	432	207	35	669	329	600	400	100	235	200	40	80	95	25	15	20	19	32							
	2.2	3.7		200		182	220					695														329	600	400	100	235	200	19	39
	3.7	5.5		239		205	220					757														417	650	450	115	25	15	25	56
	5.5	7.5		259		224	220					796														417	650	450	115	25	15	25	70
7.5	2.2	3.7	110	200	250	199	182	250	507	227	55	745	349	600	400	100	235	200	40	80	95	25	15	35	25	39							
	3.7	5.5		239		205	250					807	417	700	450	125	275	240								25	70						
	5.5	7.5		259		224	250					846	417	700	450	125	275	240								25	70						
10	7.5	11	115	323	280	273	270	270	535	255	80	953	482	800	500	150	320	285	40	80	123	25	15	28	109								
	3.7	5.5		239		205	270		832	417	750	500	125	275	240	40	80	90								25	15	45	28	56			
	5.5	7.5		259		224	270		871	417	750	500	125	275	240	40	80	90								25	15	45	28	70			
12	5.5	7.5	145	323	320	273	270	320	555	255	66	981	482	800	500	150	325	290	40	80	95	25	15	65	45	109							
	7.5	11		239		205	270		951	445	800	500	150	290	255	40	80	95								25	15	35	70				
	15	22		371		314	270		1115	546	1000	600	200	365	320	50	100	140								28	19	45	161				
20	5.5	7.5	145	259	320	217	224	320	605	255	20	951	445	800	500	150	290	255	40	80	95	25	15	65	45	70							
	7.5	11		323		270	320		1061	507	950	600	175	325	280	120	19	40								109							
	11	15		345		292	320		1105	507	950	600	175	325	280	120	19	40								136							
	15	19		352		295	320		1115	546	1000	600	200	365	320	50	100	140								28	19	45	161				
30	19	22	145	371	320	297	314	320	650	300	95	1153	546	1000	600	200	365	320	40	80	140	28	19	65	45	177							
	19	22		371		314	320		1153	546	1000	600	200	365	320	50	100	140								28	19	45	177				

NLG/NHG



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