

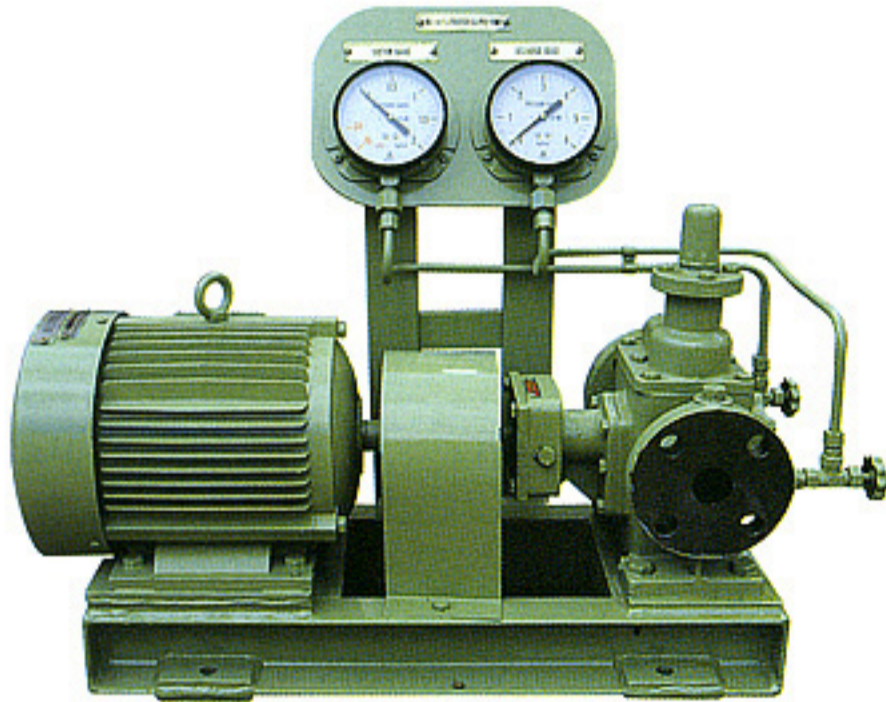
SHIN SHIN MARINE



 SHIN SHIN MACHINERY CO., LTD.

NHGH GEAR PUMP

Horizontal in-line gear pump



■ Applications

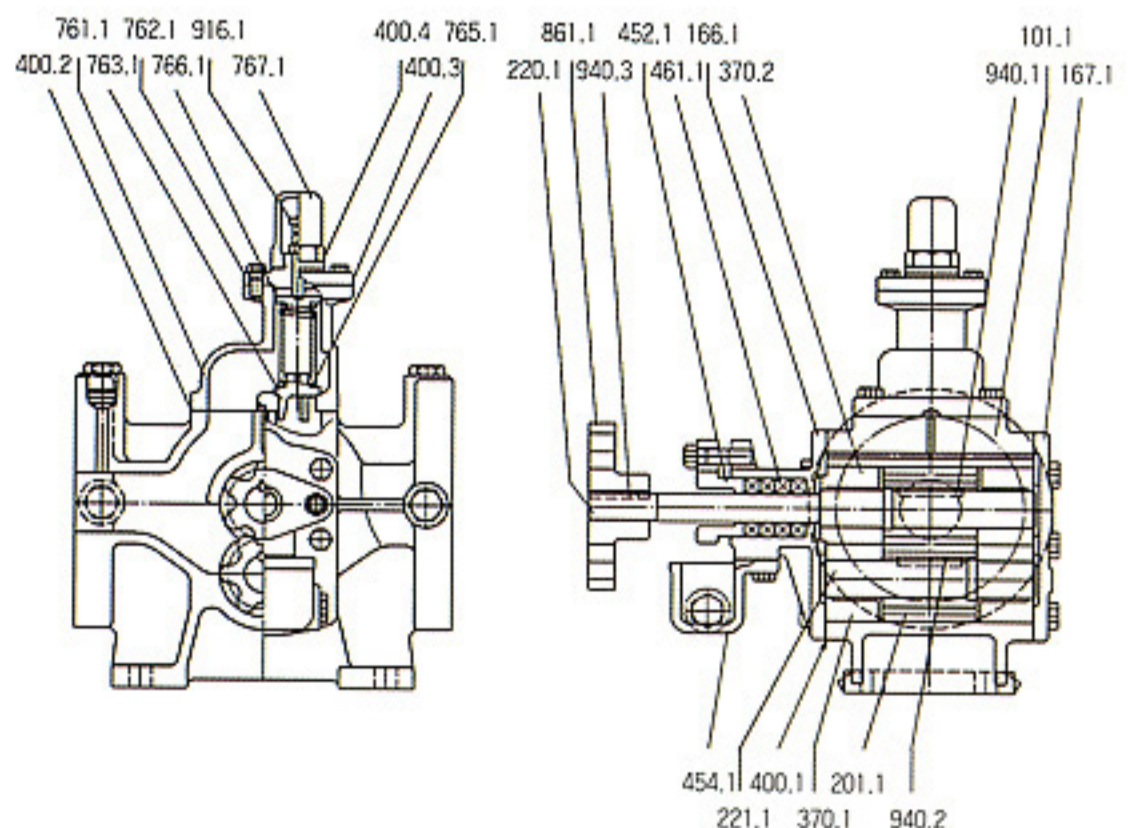
- H.F.O/L.O Supply pump for M/E, G/E
- H.F.O Purifier service pump for M/E,G/E
- H.F.O Booster pump for M/E,G/E
- H. F. O Circulation pump for M/E, G/E, Boiler
- H. F. O Trans. pump
- Others

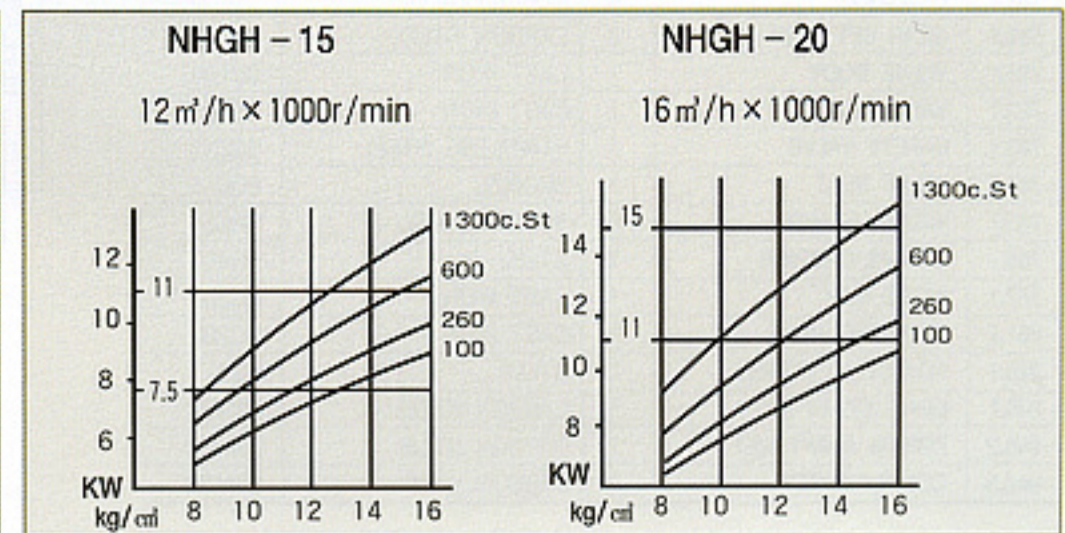
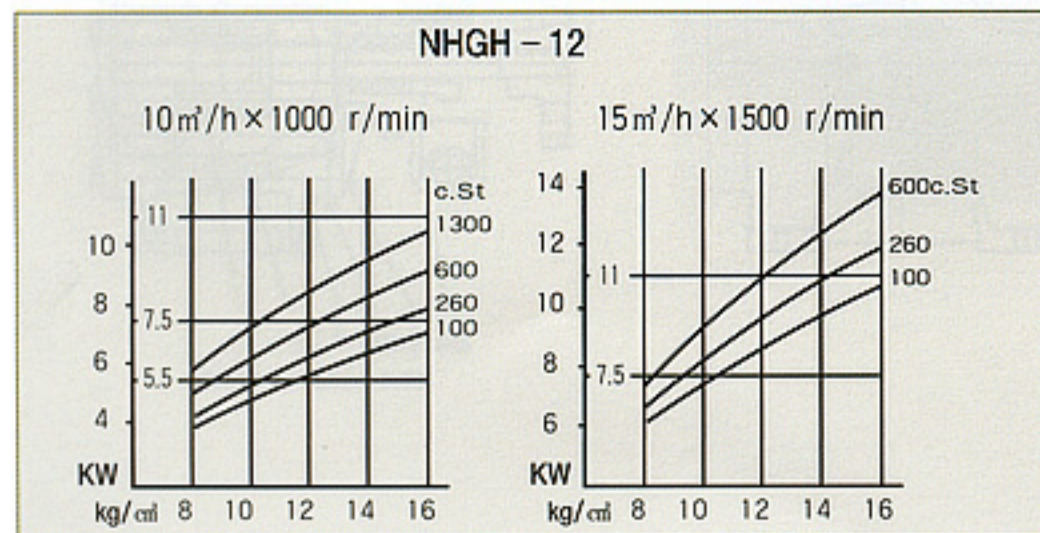
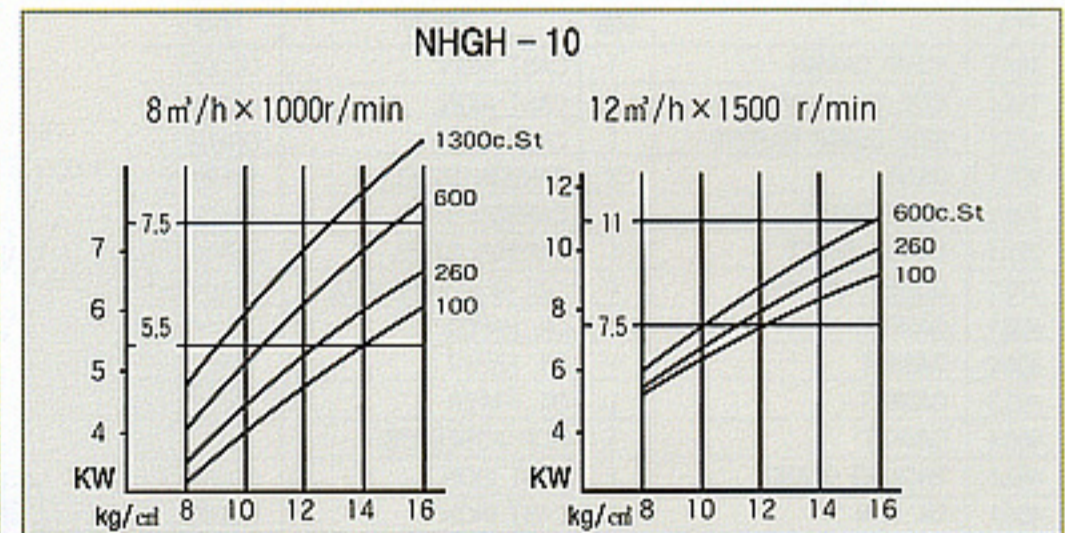
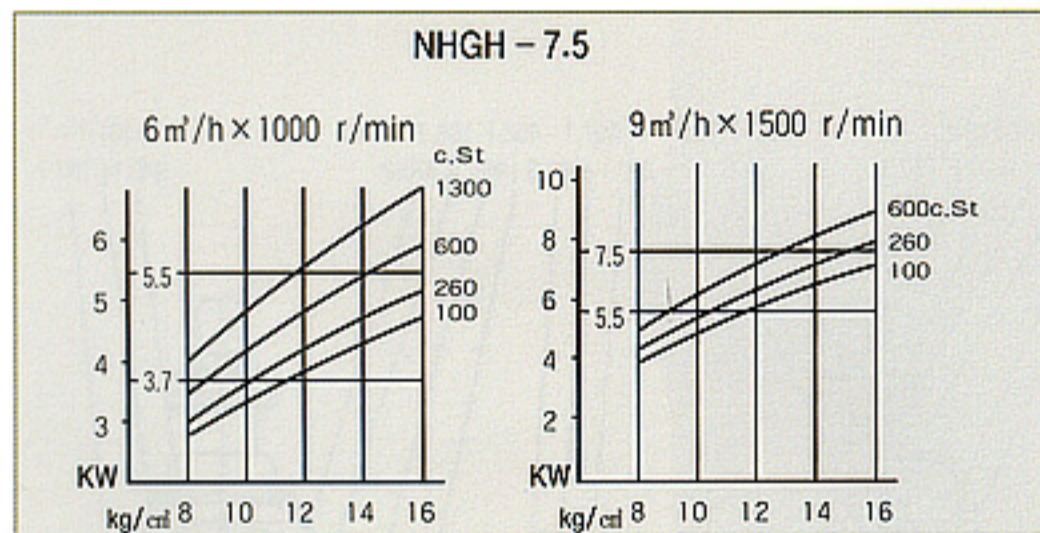
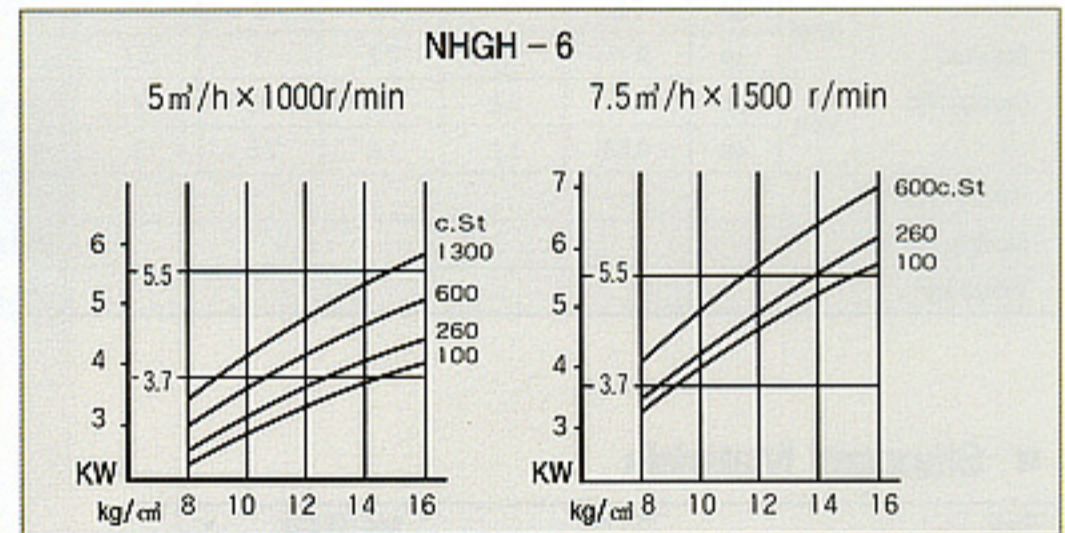
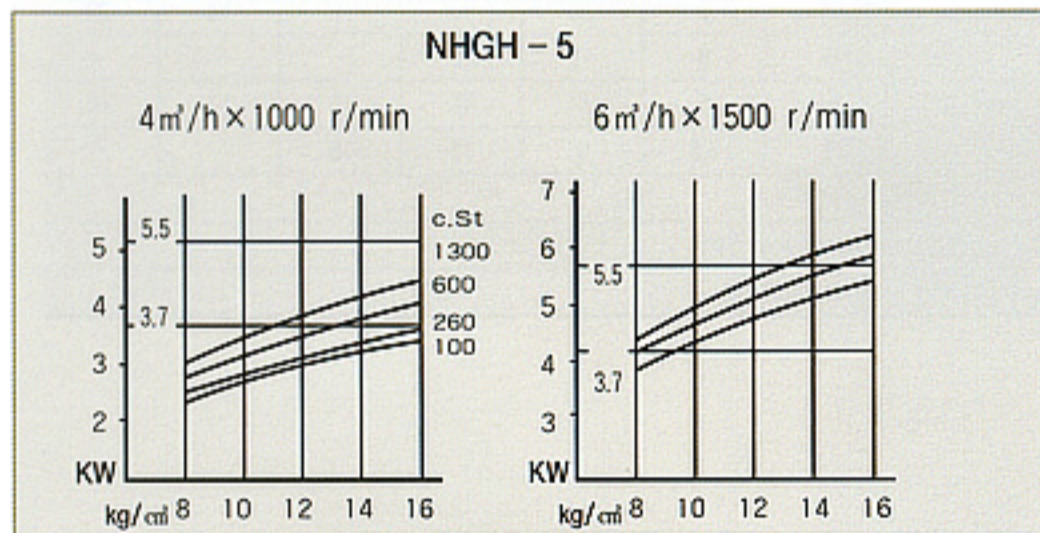
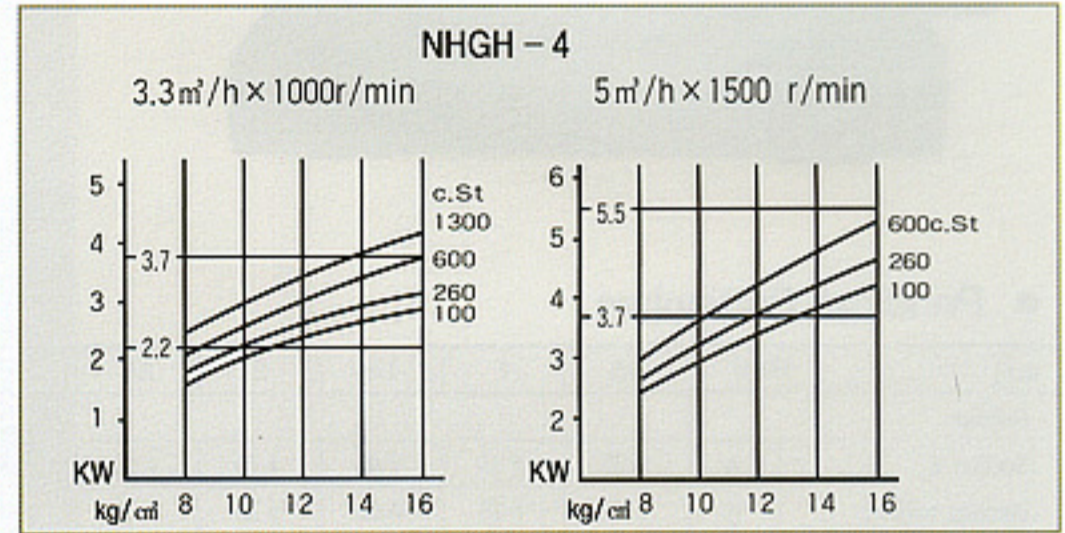
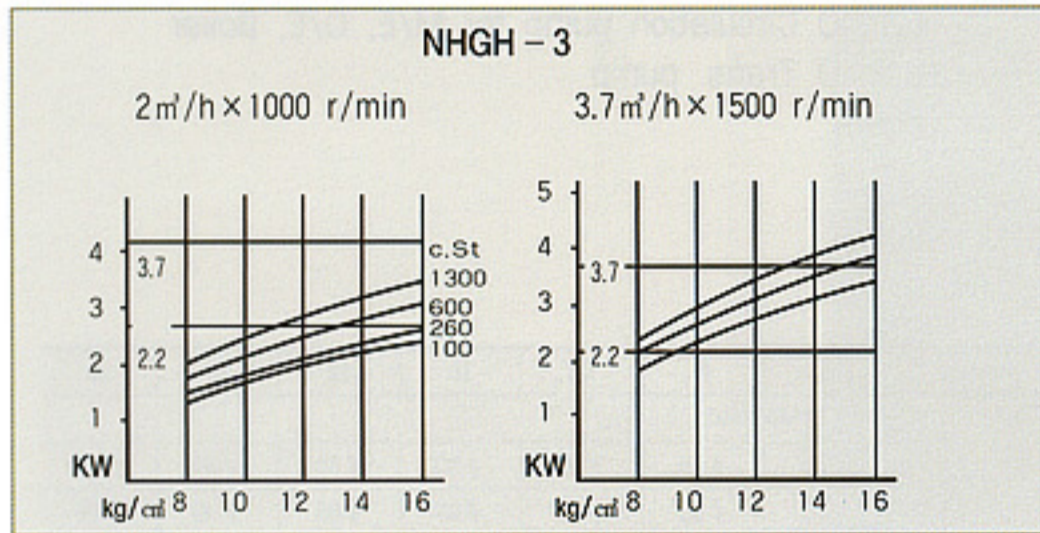
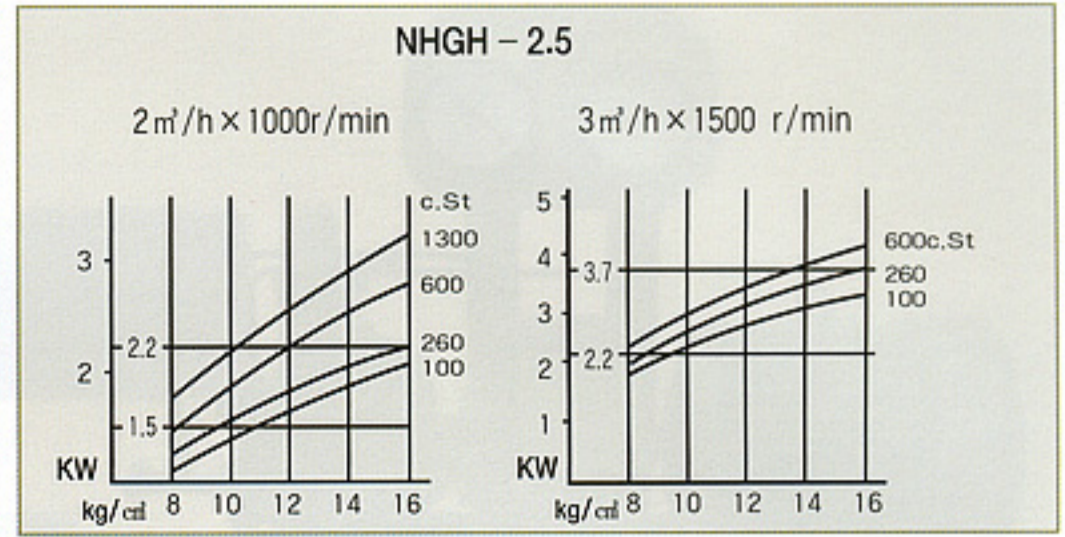
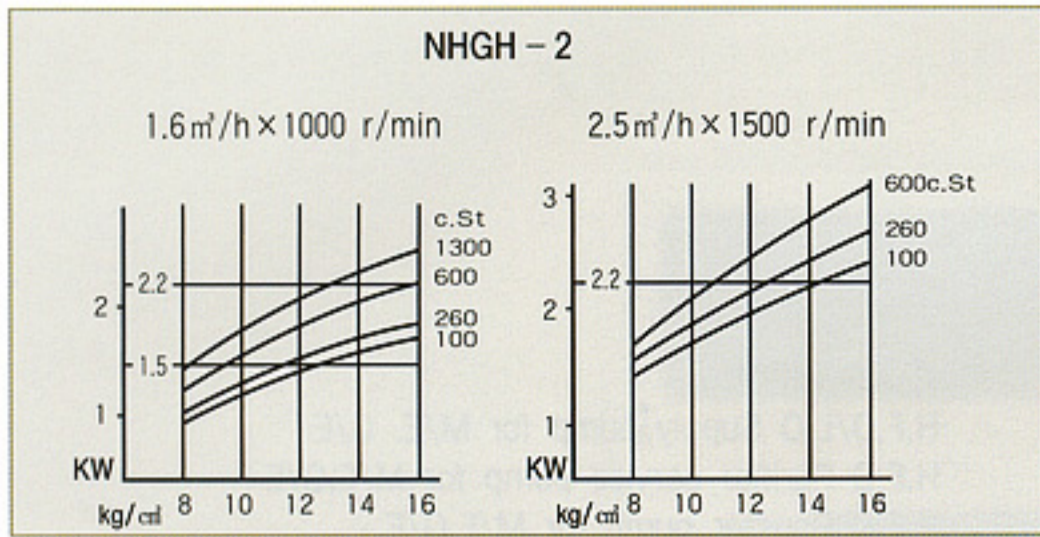
■ Principal Particulars

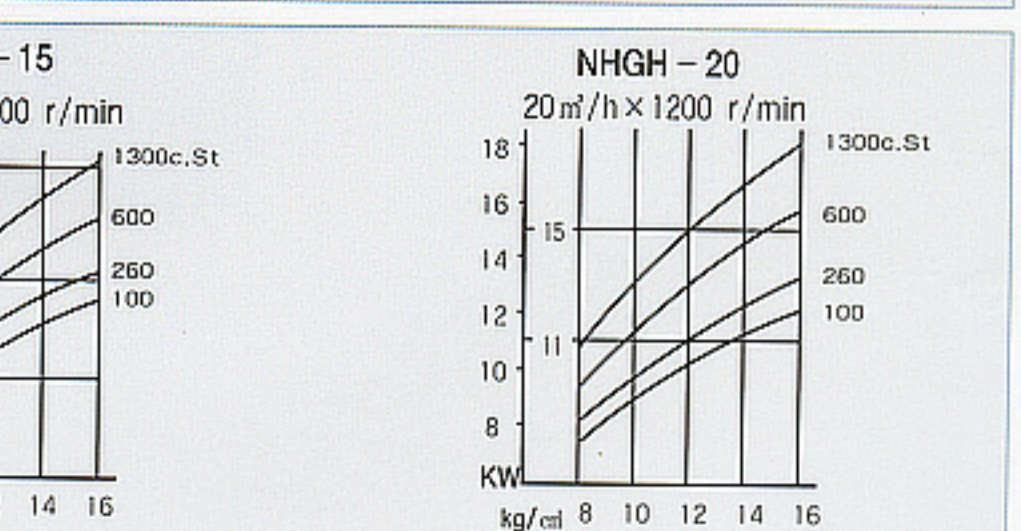
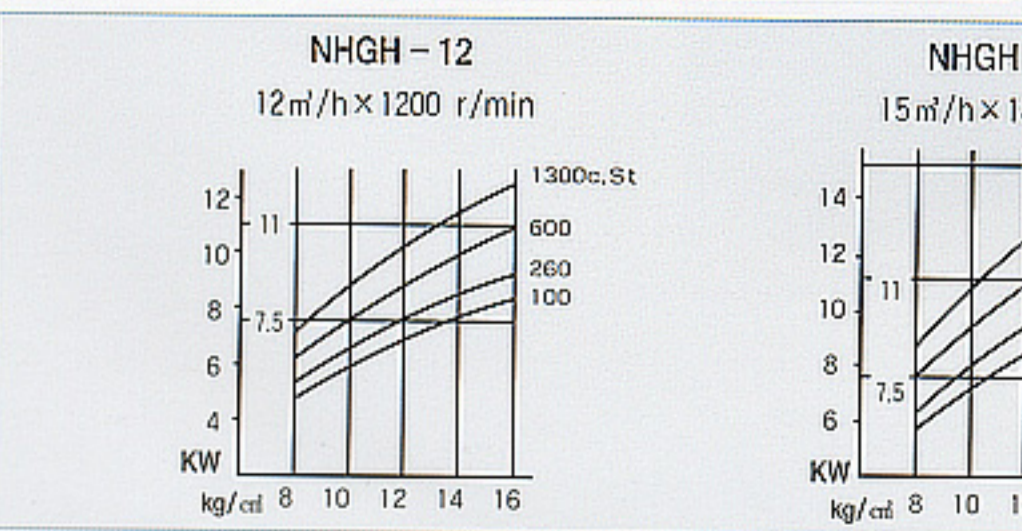
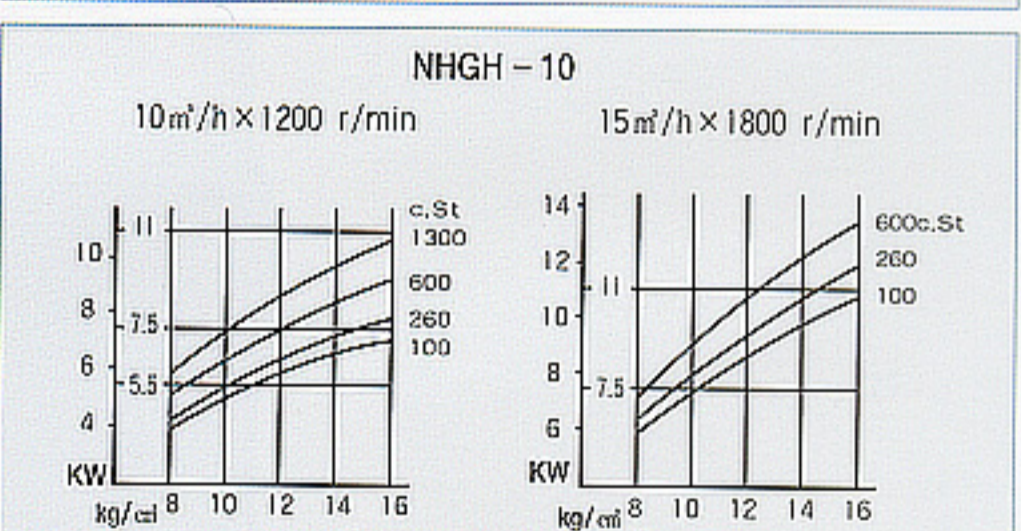
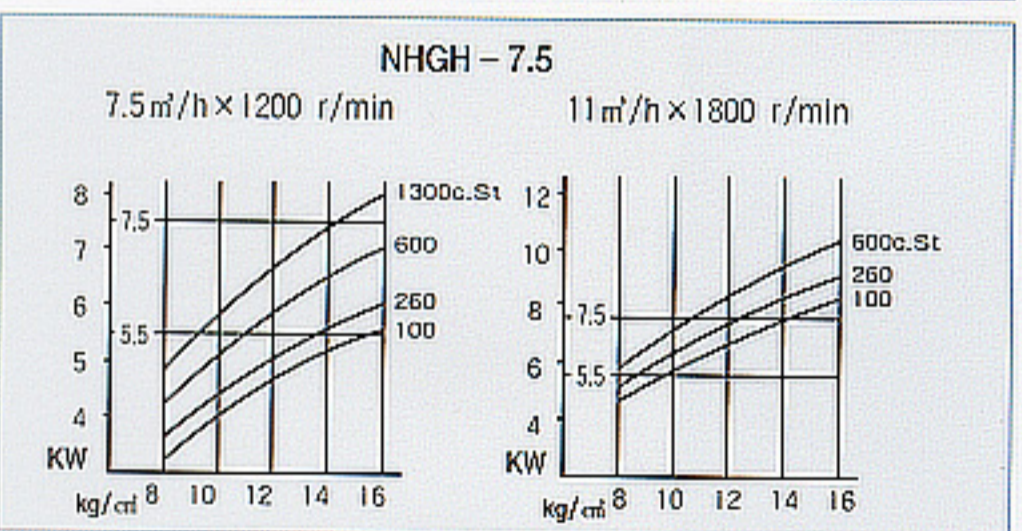
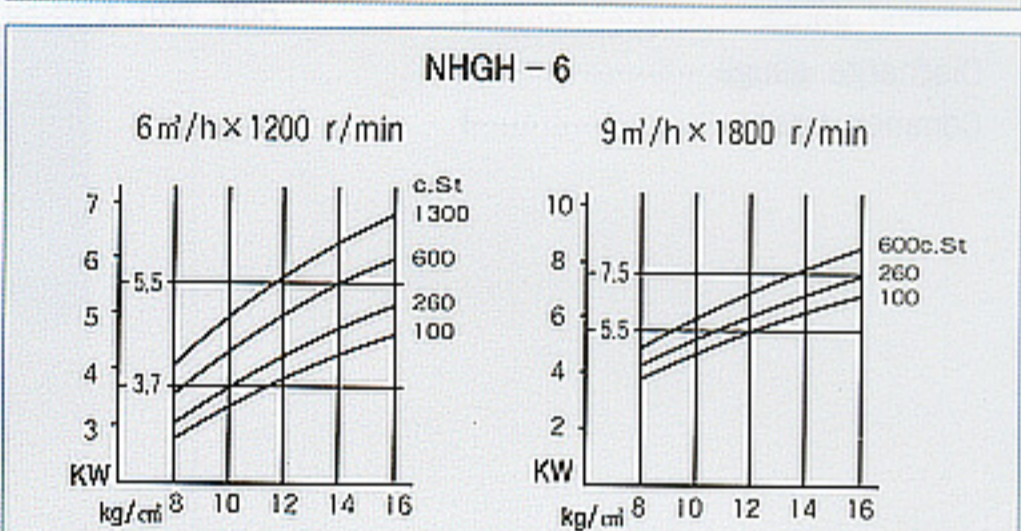
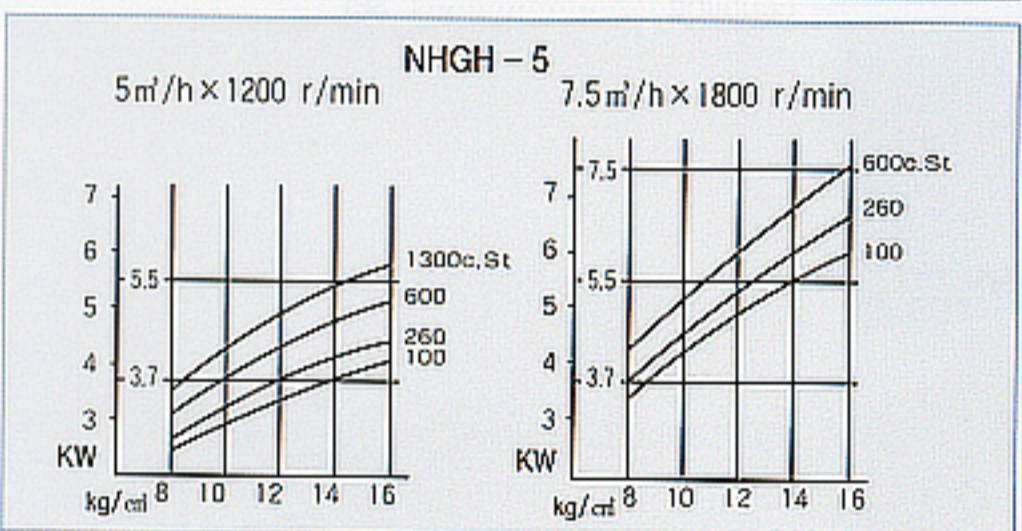
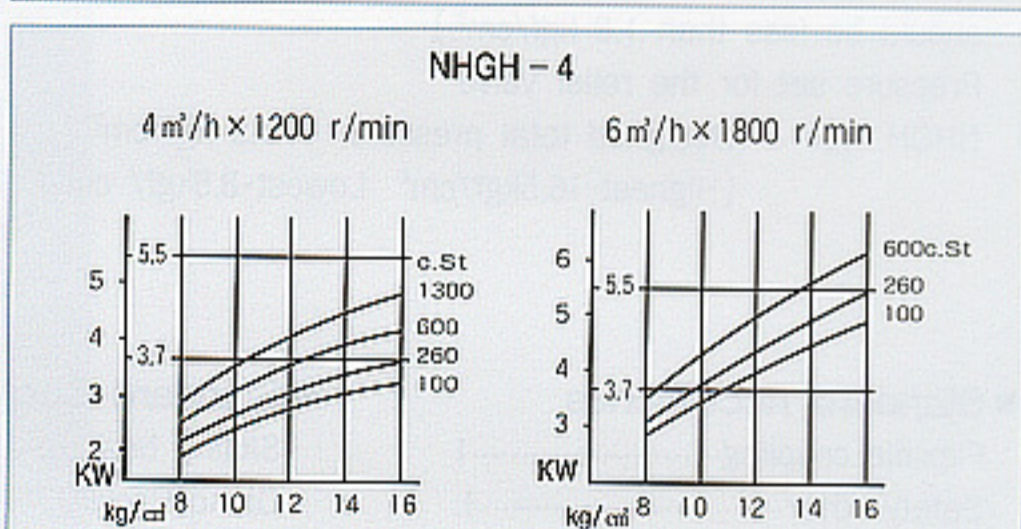
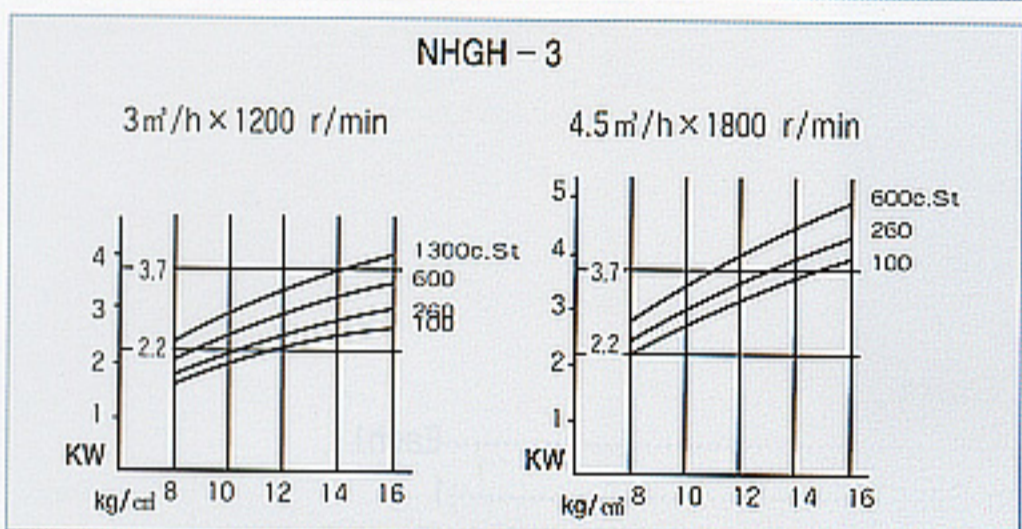
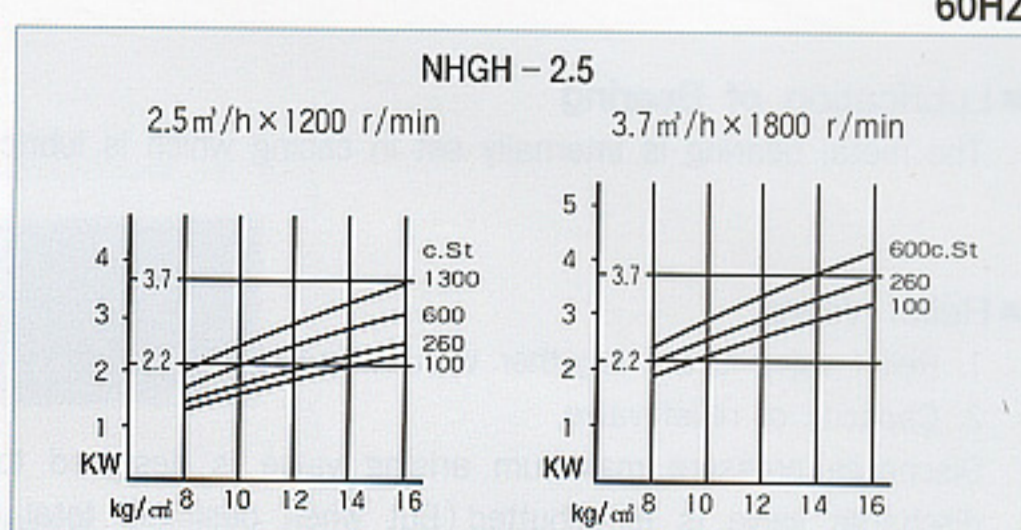
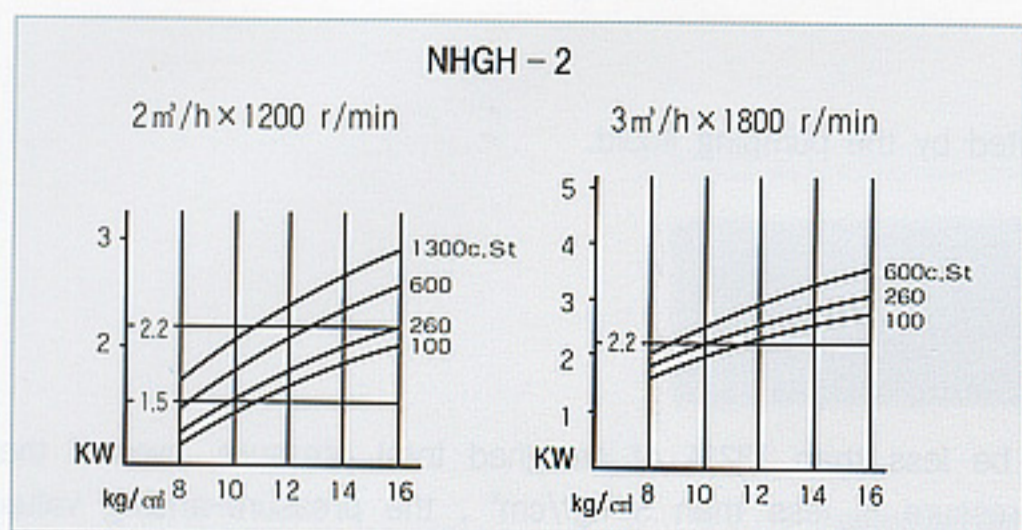
Item	Model	0.5	1	1.5	2	2.5	3	4	5	6	7.5	10	12	15	20	
Rotation		Clock viewed from driver end														
Suction & Discharge bore(mm)	S	φ 35	φ 35	φ 40	φ 40	φ 50	φ 50	φ 65	φ 65	φ 65	φ 80	φ 80	φ 80	φ 80	φ 100	
	D	φ 25	φ 25	φ 32	φ 32	φ 40	φ 40	φ 50	φ 50	φ 50	φ 65	φ 65	φ 65	φ 65	φ 80	
Standard Capacity(m ³ /hr)	60Hz	6P	0.5	1	1.5	2	2.5	3	5	4	6	7.5	10	12	15	20
		4P	0.75	1.5	2.2	3	3.7	4.5	7.5	6	9	11	15	-	-	-
	50Hz	6P	0.41	0.8	1.2	1.6	2	2.5	4	3.3	5	6	8	10	12	16
		4P	0.62	1.2	1.8	2.5	3	3.7	6	5	7.5	9	12	15	-	-
Pressure(kg/cm ²)		Up To 16kg/cm ²														
Stuffing box seal		Gland Packing or Mechanical Seal														
Weight(kg)		Refer to the Outline Drawing														

■ Standard Materials

Part No.	Name Of Part	REQ. NO. FOR 1PUMP	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	4	CAST IRON+WHITE METAL	GC200+WM
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	
512.1	GEAR SET RING	2	CARBON STEEL	SM45C
761.1	VALVE BODY	1	CAST IRON	GC200
762.1	VALVE COVER	1	CAST IRON	GC200
763.1	SAFETY VALVE	1	STAINLESS STEEL	SSC13
764.1	VALVE SEAT	1	BRONZE	BC6
765.1	VALVE SPRING	1	SPRING STEEL	SPS6
766.1	SPRING CARRIER	1	STEEL	SS41
767.1	VALVE CAP	1	CAST IRON	GC200
861.1	COUPLING HALF	1	CAST IRON	GC200
916.1	ADJUSTING SCREW	1	STEEL	SS41
940.1	DRIVE SHAFT KEY	1	CARBON STEEL	SM45C
940.2	DRIVEN SHAFT KEY	1	CARBON STEEL	SM45C
940.3	COUPLING KEY	1	CARBON STEEL	SM45C







■ 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 1.6 kgf/cm².)

Pressure set for the relief valve

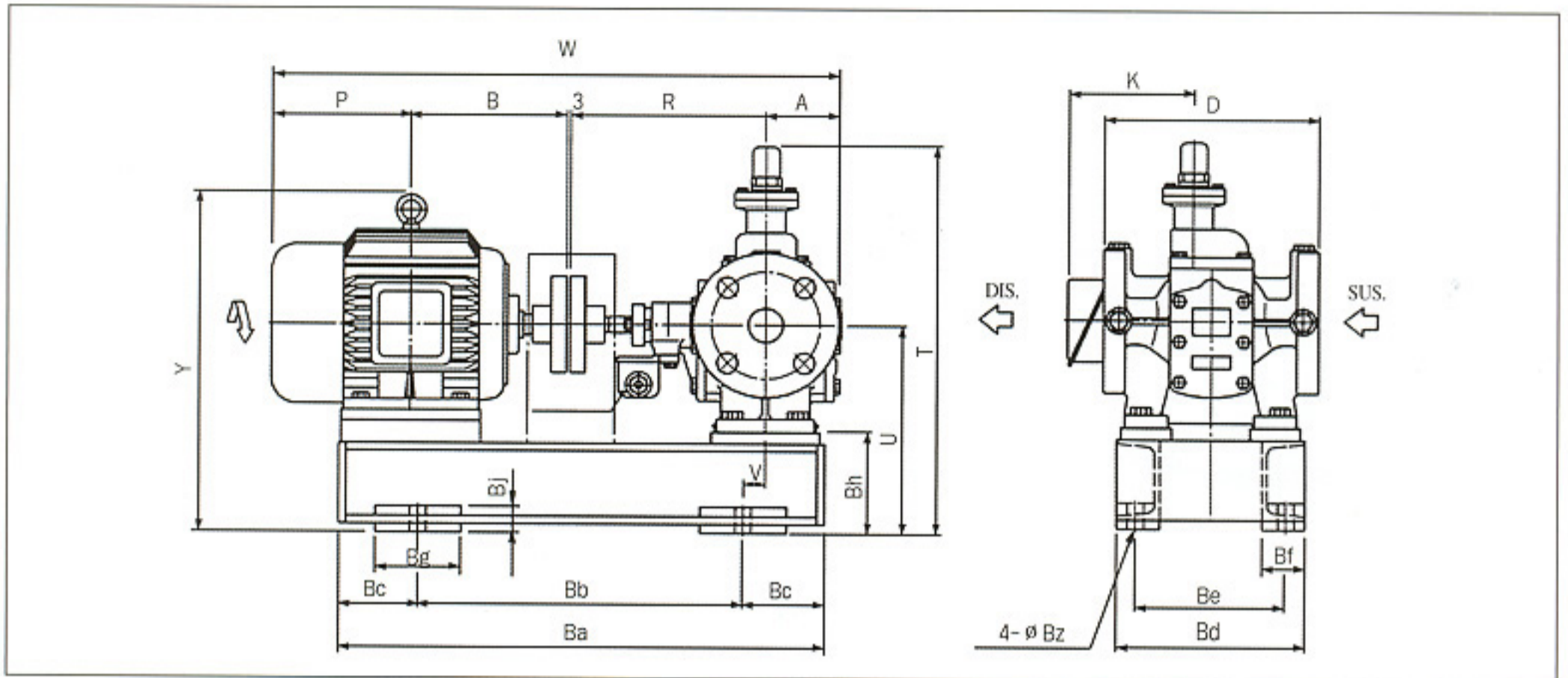
NHGH type Designed total pressure + 0.5 kgf/cm².
(Highest-16.5kgf/cm² Lowest-8.5kgf/ cm²)

■ 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

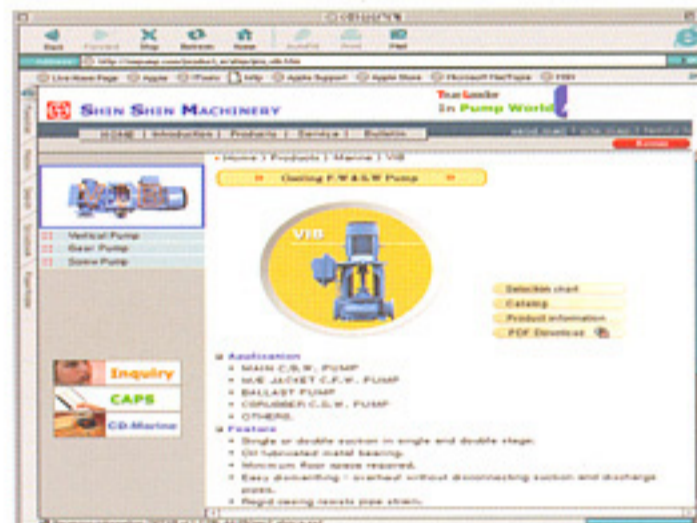


Type	Motor		Bore		Size(mm)														Base(mm)						Weight(kg)																		
	6P	4P	Suc	Del	A	B	D	K	P	R	T	U	V	W	Y	Ba	Bb	Bc	Bd	Be	Bf	Bg	Bh	Bj	Bz	Body	Base	Motor															
NHGH 1.5 2	1.5	2.2	40 φ	32 φ	75	187	200	200	199	182	220	392	207	50	654	329	600	400	100	245	210	40	80	107	25	15	16	19	30														
	2.2	3.7				200			217						205									412						227	680	742	417	275	240	127	20	39					
	3.7	5.5				239			217						205									412						227	742	417	275	240	127	20	56						
NHGH 2.5 3	2.2	3.7	50 φ	40 φ	95	200	240	199	182	205	250	445	227	35	730	349	600	400	100	275	240	40	80	95	25	15	28	19	39														
	3.7	5.5				239			217					224	60	792								417						700	450	125	275	240	40	80	95	25	15	28	56		
	5.5	7.5				258			217					224	60	830								417						700	450	125	275	240	40	80	95	25	15	28	25	70	
NHGH 4	2.2	3.7	65 φ	50 φ	95	200	250	199	182	205	250	445	227	35	730	349	600	400	100	275	240	40	80	95	25	15	30	19	39														
	3.7	5.5				239			217					224	60	792								417						700	450	125	275	240	40	80	95	25	15	30	56		
	5.5	7.5				258			217					224	60	830								417						700	450	125	275	240	40	80	95	25	15	30	25	70	
NHGH 5 6	3.7	5.5	65 φ	50 φ	105	239	250	217	205	224	250	500	227	60	802	417	700	450	125	275	240	40	80	95	25	15	30	25	56														
	5.5	7.5				258			217					224	60	840								417						700	450	125	275	240	40	80	95	25	15	30	70		
	7.5	11				323			273					270	528	255								85						951	482	850	550	150	325	290	123	32	108				
NHGH 7.5	5.5	7.5	80 φ	65 φ	105	259	280	273	224	270	250	535	255	60	841	445	700	450	125	275	240	40	80	95	25	15	40	25	70														
	7.5	11				323			270					250	535	255								85						951	482	850	550	150	325	290	40	80	95	25	15	40	108
	11	15				345			273					292	535	255								85						995	482	850	550	150	325	290	40	80	95	25	15	40	36
NHGH 10	5.5	7.5	80 φ	65 φ	130	258	280	224	224	270	320	535	255	50	935	445	800	500	150	275	240	40	80	95	28	19	45	35	70														
	7.5	11				323			270					320	535	255								95						1046	507	900	550	175	325	280	50	100	120	28	19	45	108
	11	15				345			292					320	580	280								95						1090	546	900	550	175	325	280	50	100	120	28	19	50	43
NHGH 12 15	11	15	80 φ	65 φ	130	345	280	273	292	320	580	280	95	1090	546	900	550	175	325	280	50	100	120	28	19	50	43	136															
						352		297	314														605						300	100	1100	950	600	365	320	140	47	177					
NHGH 20	11	15	100 φ	80 φ	140	345	320	273	292	320	605	300	100	1100	527	900	550	175	325	280	50	100	120	28	19	60	42	136															
						371		297	314														605						300	100	1148	546	950	600	365	320	46	177					



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