

TROCOIDAL PUMP

C

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FEATURE:

- 1.Allowable temperature -5℃ to 80℃ (Viton Seal to 200℃)
- 2.Allowable oil viscosity 10~500mm²/s
- 3.Compactness and Lightness
- 4.Good displace efficiency
- 5.Low noise and low pulse
- 6.Simple structure

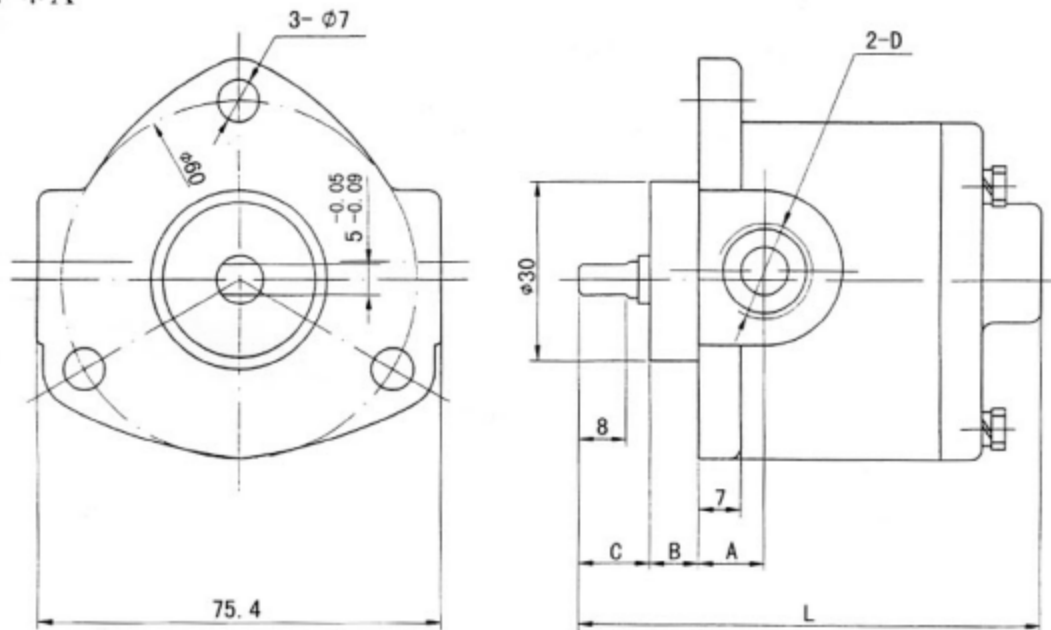
APPLICATION:

- 1.Machine lubricating system
- 2.Machine oil driving system
- 3.Burner injection system
- 4.Gear box lubricating system

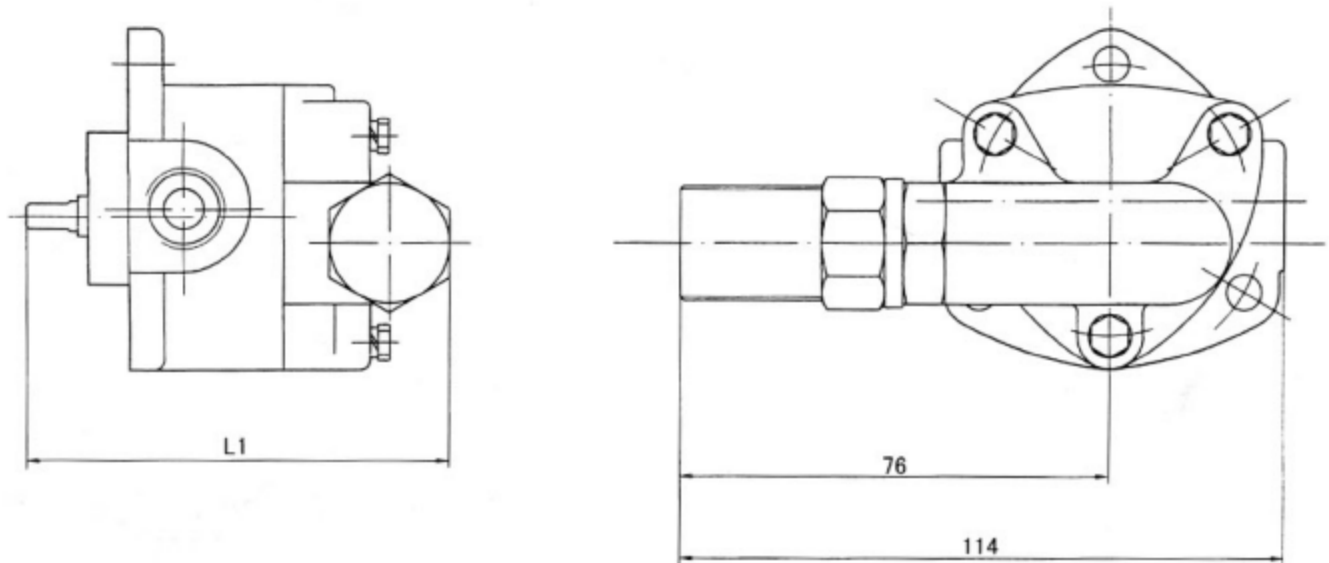
Model	Flow At 1800 rpm (l/min)	1,800rpm			
		Pressure(kgf/cm ²)			
		200w	400w	750w	1.5kw
RBB-203	4.9	8	22	25	-
RBB-204	7.2	5	17	25	-
RBB-206	10.8	3	11	20	-
RBB-208	14.4	2	9	17	-
RBB-210	18.0	-	7	13	25
RBB-212	21.6	-	6	11	22
RBB-216	28.8	-	4	7	14
RBB-220	36.0	-	2	4	8

Model	Flow At 1800 rpm (l/min)	1,800rpm			
		Pressure(kgf/cm ²)			
		1.5w	2.2w	3.7w	5.5kw
RBB-320	48	8	20	25	-
RBB-330	60	5	18	25	-
RBB-340	76	3	12	24	25
RBB-450	96	2	8	20	25
RBB-465	120	-	5	13	21
RBB-480	150	-	3	7	14
RBB-490	170	-	-	6	12

RAB-***A

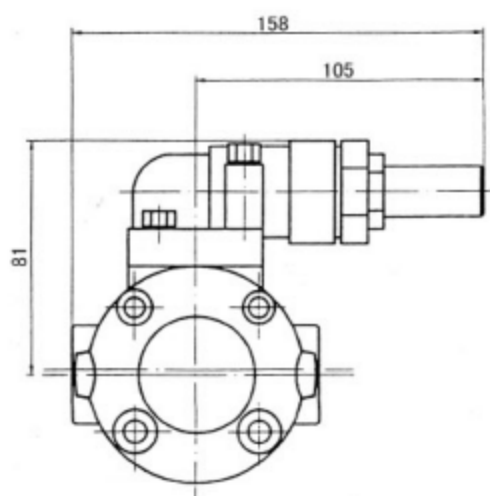
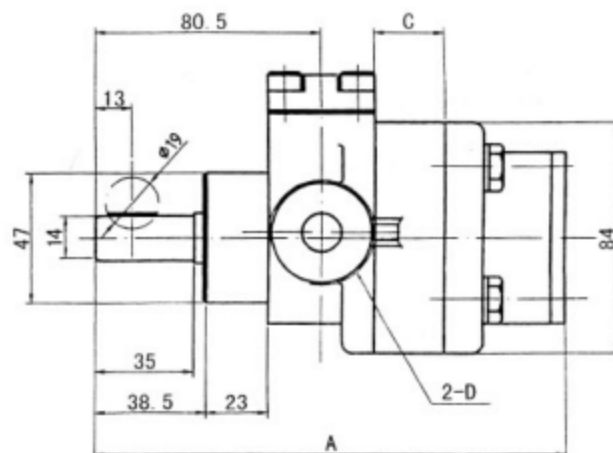
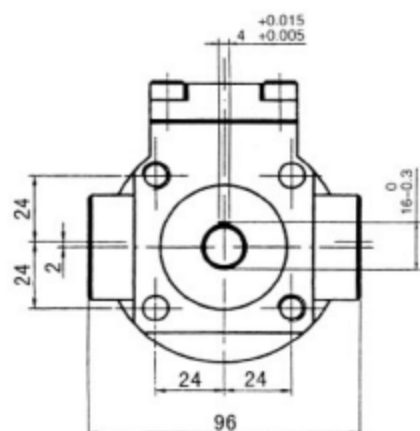


RAB-***AY



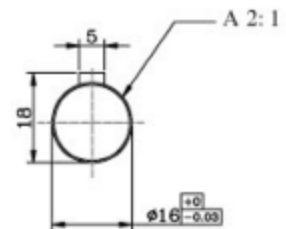
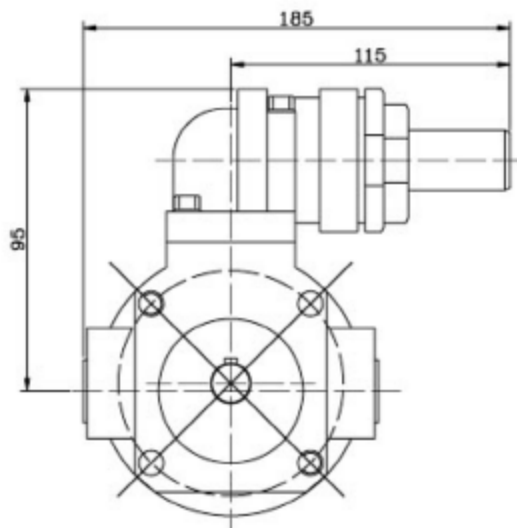
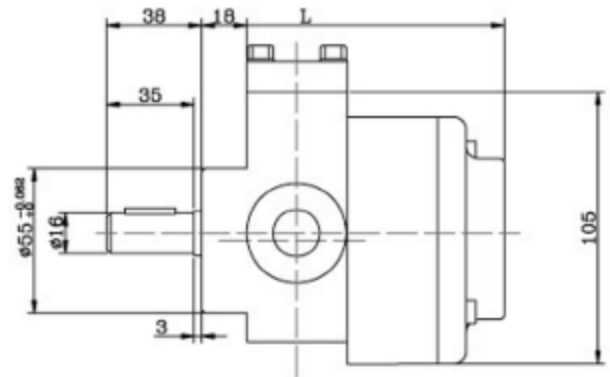
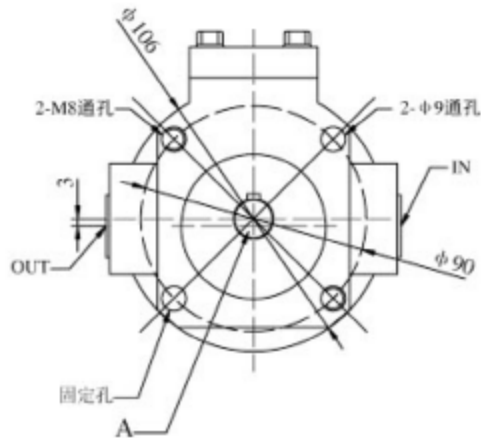
Model	Displacement c.c/rcv.	Flow l/min		Pressure Kg/cm ²	Max rpm	L	L1	A	B	C	D	Weight kg	
		1500rpm	1800rpm										+Y
RAB-10A	1	1.5	1.8	5	3000	60	78	11	8	11.5	1/8"	0.6	0.8
RAB-11A	1.6	2.5	2.9		2000	64	71					0.7	0.9
RAB-12A	2.5	3.7	4.5		1800	70	85				1/4"	0.82	1.02
RAB-13A	4	6	7.2			85	93				3/8"	1.07	1.27

RBB-2 * * (HEAVY OIL)



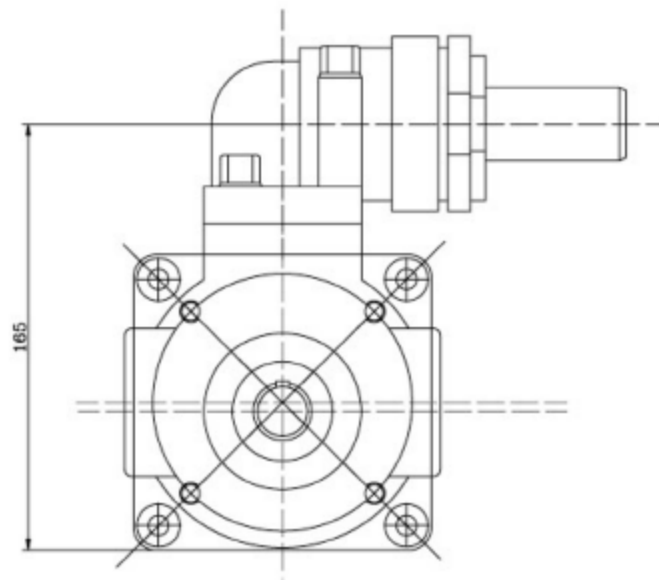
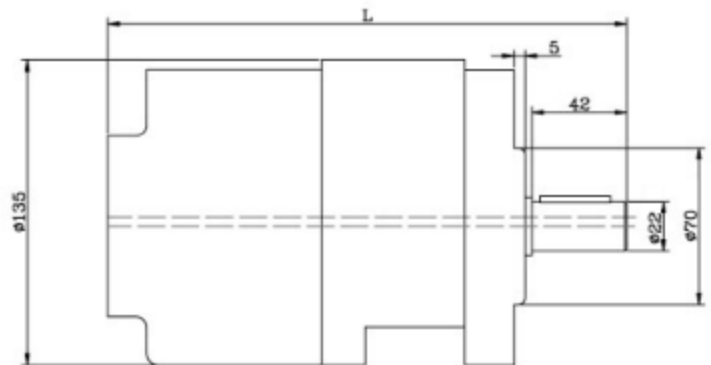
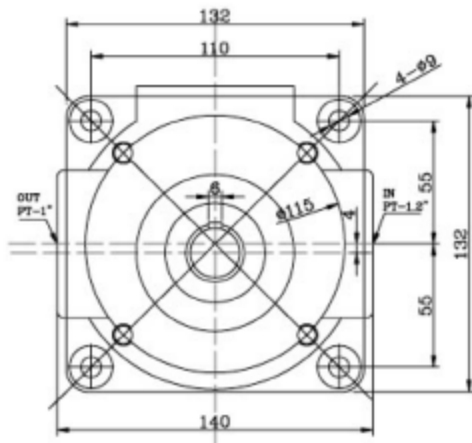
Model	Displacement c.c/rcv.	Flow l/min		Pressure Kg/cm ²	Max rpm	A	C	D	Weight kg	
		1500rpm	1800rpm							+Y
RBB-203	2.7	4	4.9	25	2800	140	7	1/2"	3.7	4.4
RBB-204	4	6	7.2		2000	145	10		3.7	4.4
RBB-206	6	9	10.8			150	15		4.0	4.7
RBB-208	8	12	14.4			154	20		4.0	4.7
RBB-210	10	15	18			160	25	3/4"	4.3	5.0
RBB-212	12	18	21.6			170	30		4.5	5.2
RBB-216	16	24	28.8			178	40		4.8	5.5
RBB-220	20	30	36			190	50		5.3	6.0

RBB-3 * * (HEAVY OIL)



Model	Displacement c.c/rev.	Flow l/min		Pressure Kg/cm ²	Max rpm	L	p	Weight kg	
		1500rpm	1800rpm						+Y
RBB-308	8	12	14	25	2000	140	3/4"	3.95	4.7
RBB-310	10	15	18			145		4.45	5.2
RBB-312	12	18	21			151		5.05	5.8
RBB-316	16	24	29			160		5.35	6.1
RBB-320	21	31	38			167		5.75	6.5
RBB-326	26.6	40	48			177		6.25	7
RBB-330	33	50	60			186		6.95	7.7
RBB-340	42	63	76			200		7.75	8.5

RBB-4 * * (HEAVY OIL)



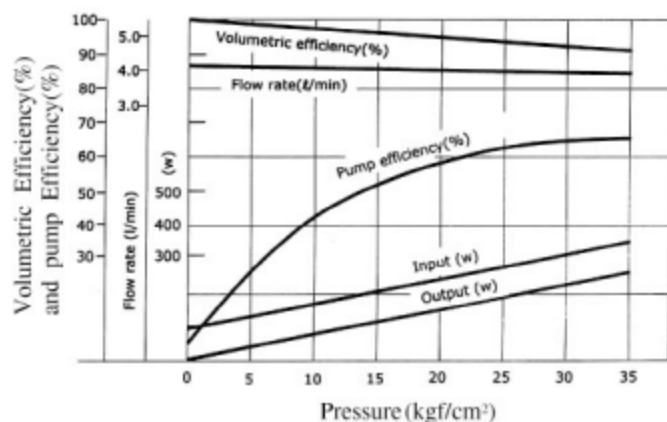
Model	Displacement c.c/rev.	Flow l/min		Pressure Kg/cm ²	Max rpm	L	In	Out	Weight kg	
		1500rpm	1800rpm							+Y
RBB-450	53	80	96	25	2000	206	1 1/4"	1"	11.7	12.7
RBB-465	66	100	120			216			12.5	13.5
RBB-480	84	125	150			230			14.5	15.5
RBB-490	93	140	168			240			16.5	17.5

Oil used #56 turbine oil

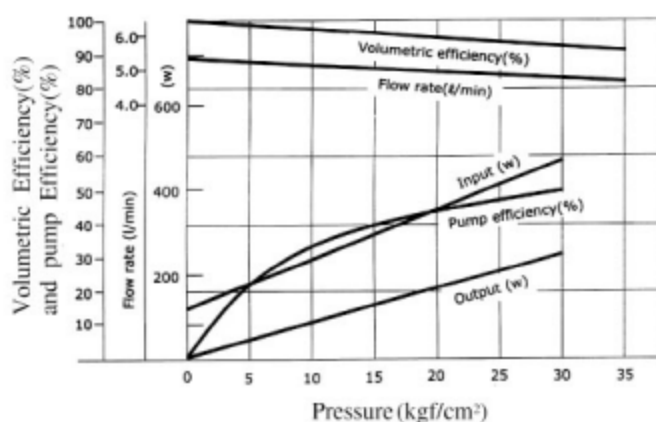
Oil temperature :35°C

Speed:1,500rpm

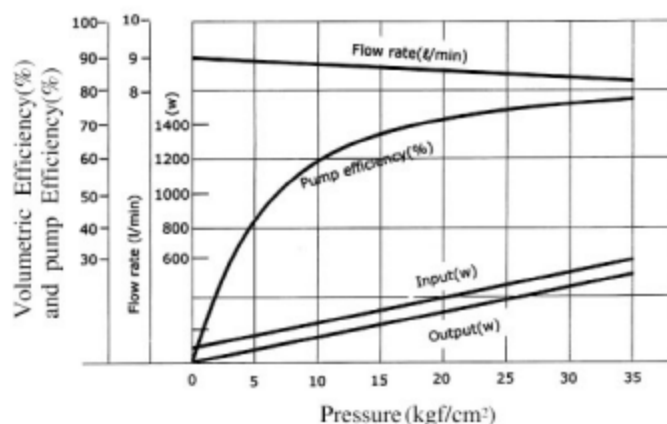
RBB-203



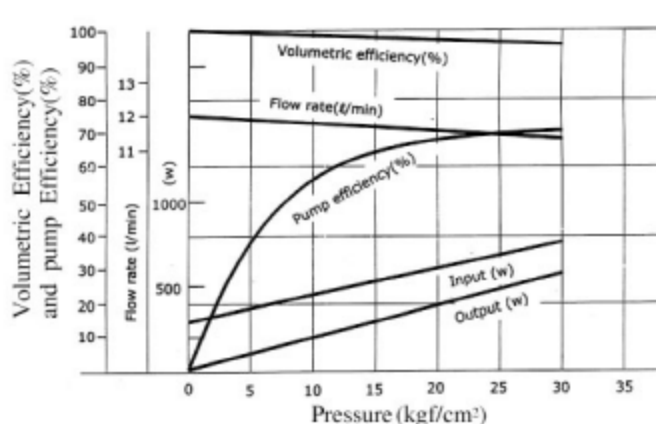
RBB-204



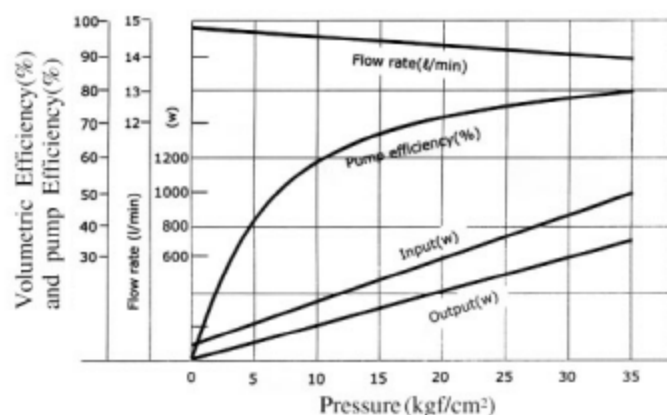
RBB-206



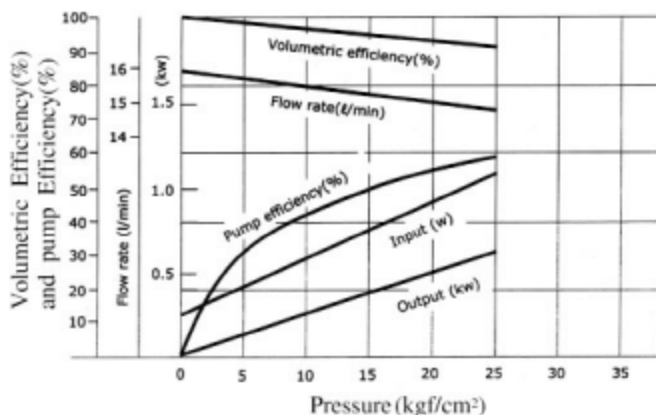
RBB-208



RBB-210



RBB-212

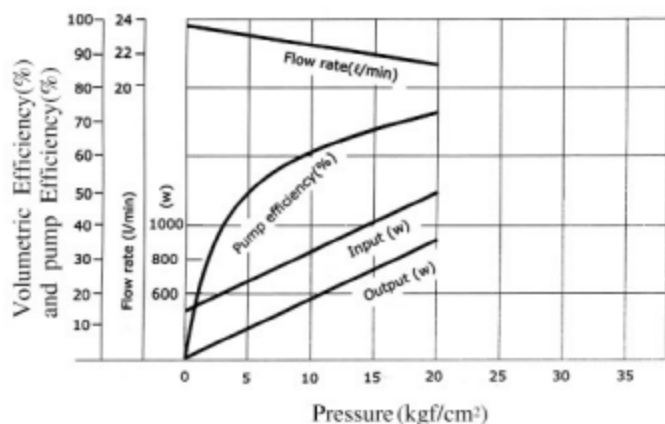


Oil used #56 turbine oil

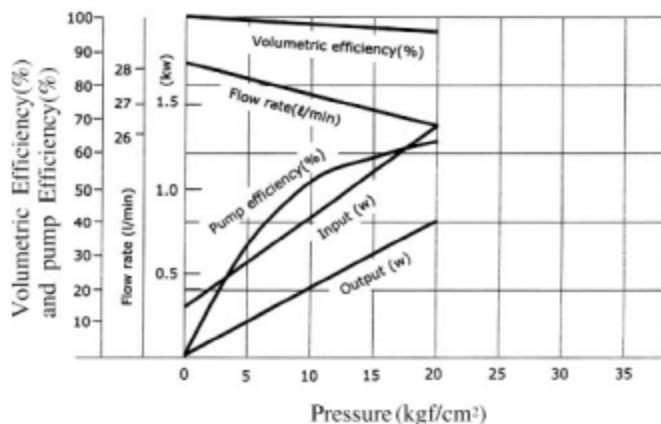
Oil temperature :35°C

Speed:1,500rpm

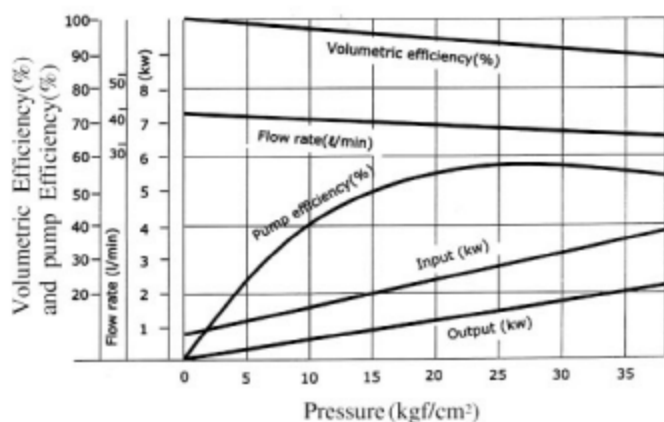
RBB-216



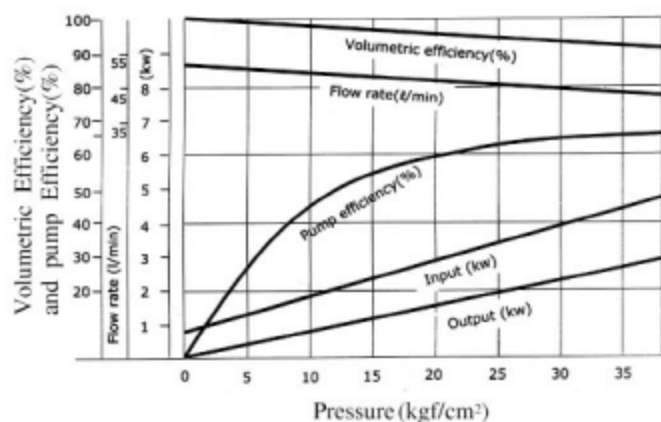
RBB-220



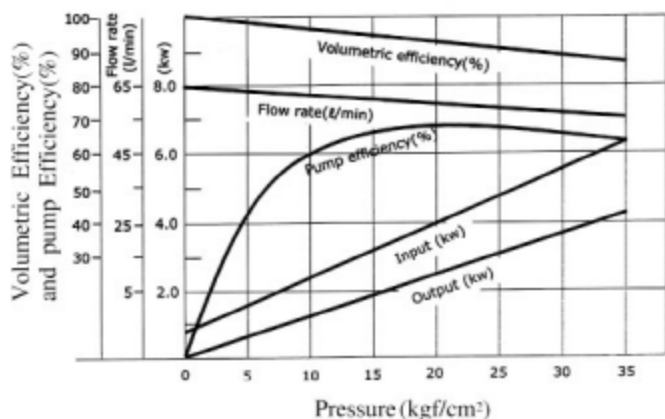
RBB-320



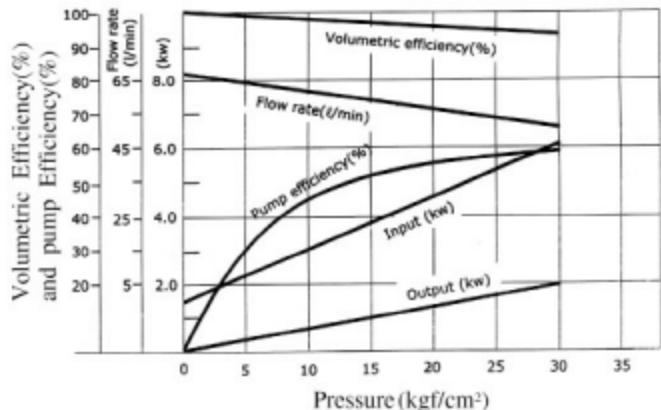
RBB-330



RBB-340



RBB-450

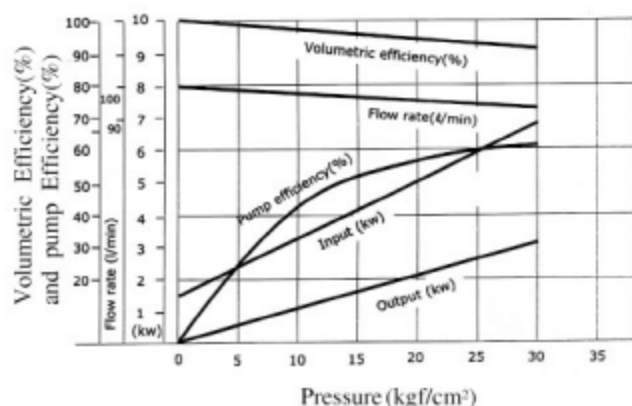


Oil used #56 turbine oil

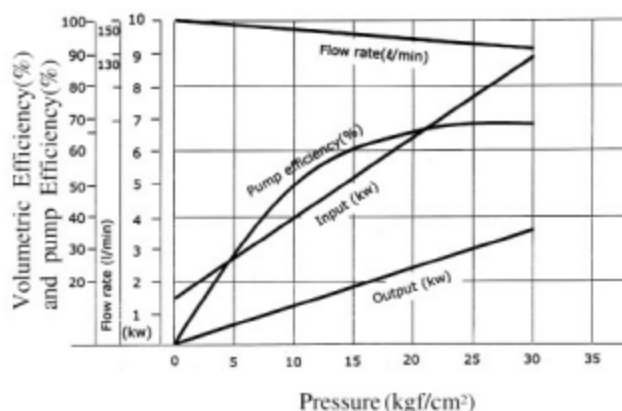
Oil temperature :35℃

Speed:1,500rpm

RBB-465



RBB-480



CALCULATION OF MOTOR POWER

$$Lm = \frac{P \cdot Q}{612 \cdot \eta} \text{ (KW)} \quad Lm = \frac{P \cdot Q}{450 \cdot \eta} \text{ (HP)}$$

*P:DISCHARGE PRESSURE(kg/cm²)

*Q:DISCHARGE QUANTITY(l/min)

* η :COEFFICIENT (FULL EFFICIENCY OF PUMP)

DISCHARGE PRESSURE	COEFFICIENT (η)
0~3(kg/cm²)	0.2~0.25
3~5(kg/cm²)	0.25~0.3
5~8(kg/cm²)	0.3~0.35
8~10(kg/cm²)	0.35~0.45
10~20(kg/cm²)	0.45~0.55
20(kg/cm²)~	0.55~0.65

OIL TANK INSTALLATION

PUMP MUST BE PLACED MORE HIGHER THAN THE TANK, AND THE CAPACITY OF OIL TANK MUST BE MORE 3 TIMES THAN THE DISCHARGING VOLUME (PER MINUTE OF PUMP).

IF THE CAPACITY OF TANK IS TOO SMALL, IT IS A REASON OF THE INCREASE OF OIL TEMPERATURE AND THE SUCTION TROUBLE.

COUNTERMEASURE OF TROUBLES

CONFIRMATION OF PUMP ROTATION.

CLEANING OF SUCTION FILTER.

READJUSTMENT OF RELIEF VALVE.

ADD OIL.

CLEAN THE SUCTION PIPE FROM DIRTY CLOGS AND PUMP ROTOR INSIDE.

REPAIR THE PORTION WHERE AIR LEAKS IN PIPING.