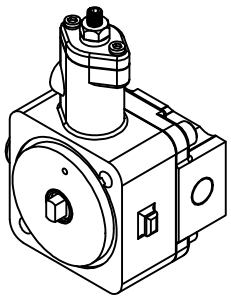
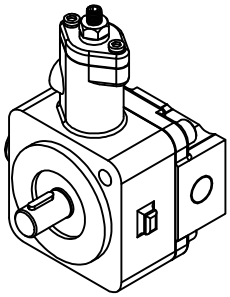
KVDN SERIES
Variable Vane Pump Features & Ordering Code

KVDN-8
KVDN-12
KVDN-16
KVDN-21



(A型：馬達端防漏型)



(B型：泵軸端防漏型)

SYMBOL

FEATURES 特點

✱.Energy efficient high performance up 30~40% (高效高性能)

✱.Lightweight, compact design (重量輕，結構緊湊)

✱.Low noise, long life (噪音低，壽命長)

✱.Low heat generation, low temperature rise (低發熱，低溫升)

Model	Capacity (cm^3/rev)	Operating Pressure Mpa (Kgf/cm^2)	No-load discharge Rate (L/min)		Input power (HP)	Net Weight (Kg)
			50HZ	60HZ		
KVDN-8	8	1.5~ 4.0(15.3~40.8)	12	14.4	1~2	7
		3.5~ 6.0 (35.7~61.2)				
		5.5~ 8.0 (56.1~81.6)				
KVDN-12	12	1.5~ 4.0(15.3~40.8)	18	21.6	1~2	
		3.5~ 6.0 (35.7~61.2)			2~3	
		5.5~ 8.0 (56.1~81.6)			2~3	
KVDN-16	16	1.5~ 4.0(15.3~40.8)	24	28.8	1~2	
		3.5~ 6.0 (35.7~61.2)			2~3	
		5.5~ 8.0 (56.1~81.6)			3~5	
KVDN-21	21	1.5~ 4.0(15.3~40.8)	31.5	37.8	2~3	
		3.5~ 6.0 (35.7~61.2)			3~5	
		5.5~ 8.0 (56.1~81.6)			3~5	

ORDERING CODE 訂購指引

KVDN - 8 - A - 3 - 1 - A

① ② ③ ④ ⑤ ⑥

① KUVN Series Uni-pump

② Displacement (cm^3 /rev) : 8 , 12 , 16 , 21

③ **A**：Motor-side leak-proof (馬達端防漏型)
B：Pump-side leak-proof (泵軸端防漏型)

④ Pressure adjustment range
2：15 ~ 40 (Kgf/cm^2)
3：35 ~ 61 (Kgf/cm^2)
4：56 ~ 80 (Kgf/cm^2)

⑤ Shaft Type
1 : 方形鍵 **3 : Spline**
2 : 一字鍵
***** 參見 KVDN 外形尺寸說明

⑥ Type of Suction Port & Discharge Port
A or No : RC
B: NPT
C: SAE
D: BSP

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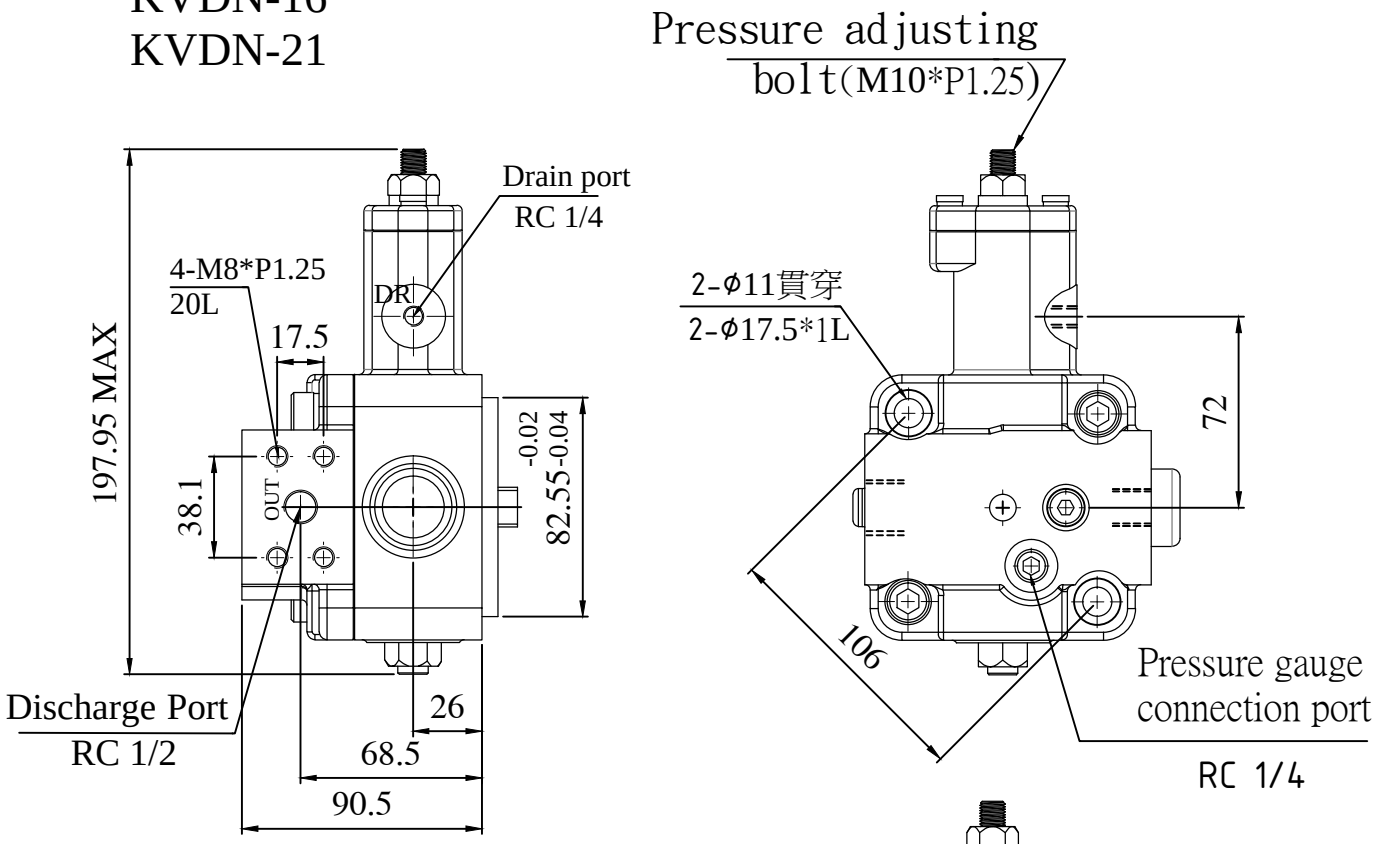
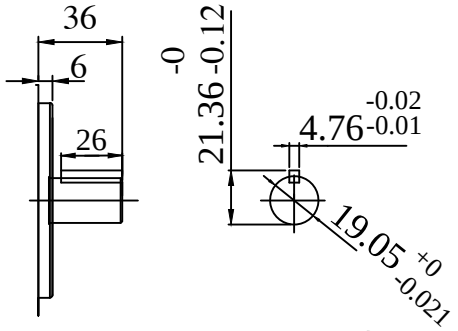
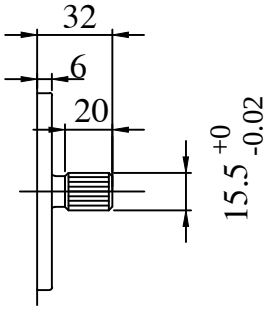
KVDN-16
KVDN-21

Motor-side leak-proof (馬達端防漏型 KVDN-*-A-*)





NO：01 - Shaft



Diametral Pitch : 16/32
Pressure Angle : 30°
No. of Teeth : 9

NO：02 - Shaft

NO.03-Shaft

KVDN-8
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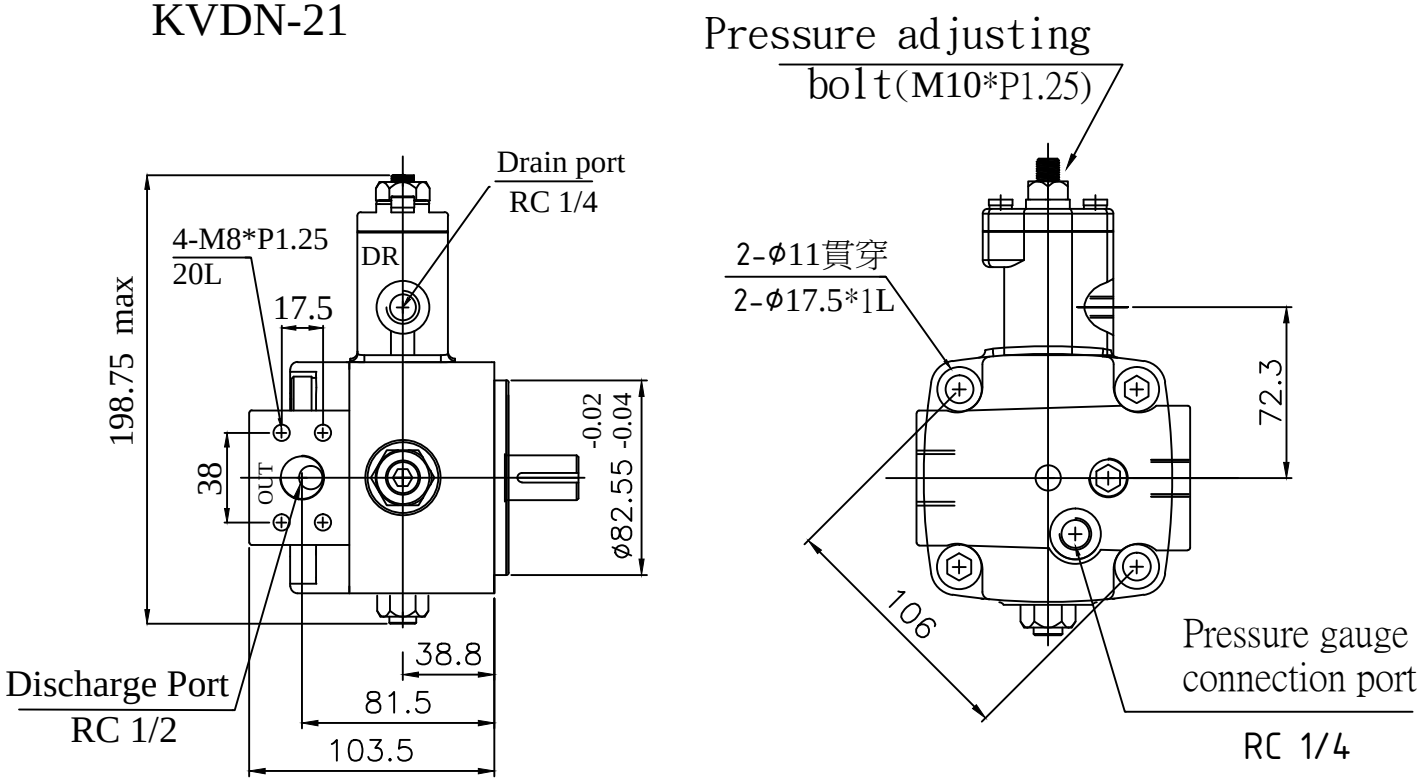
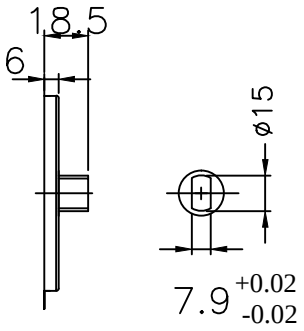
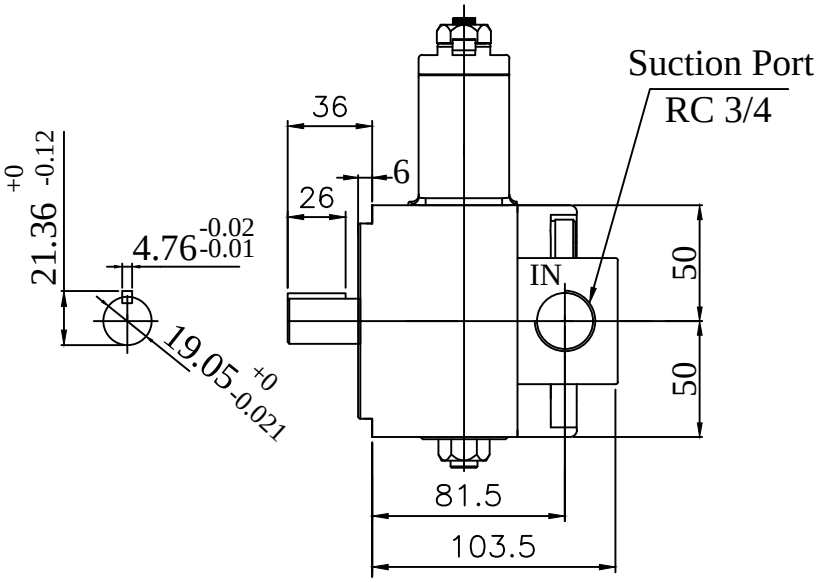
Pump-side leak-proof (泵端防漏型 KVDN-*-B-*)

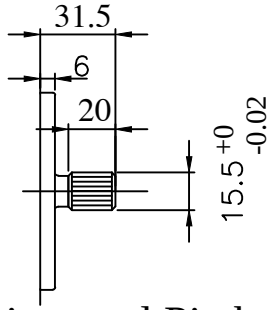




NO：02 - Shaft



NO：01 - Shaft



Diametral Pitch : 16/32
Pressure Angle : 30°
No. of Teeth : 9

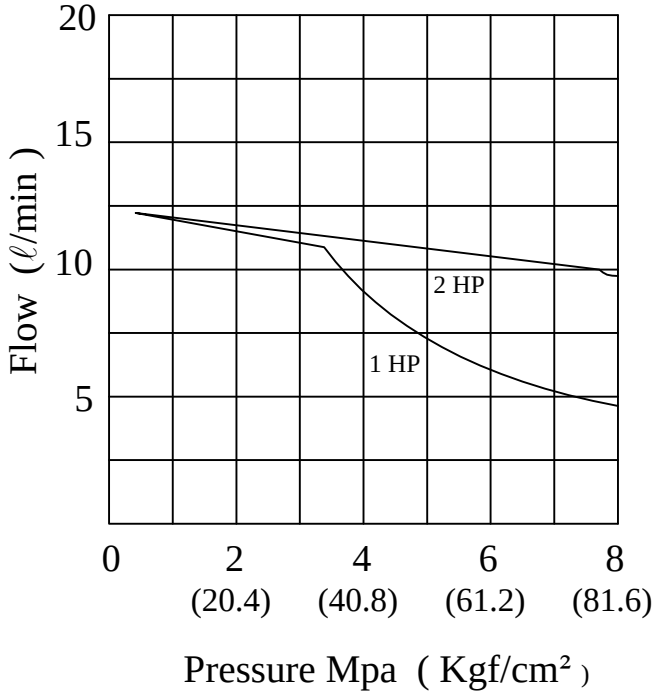
NO.03-Shaft

Motor Hp selection curves

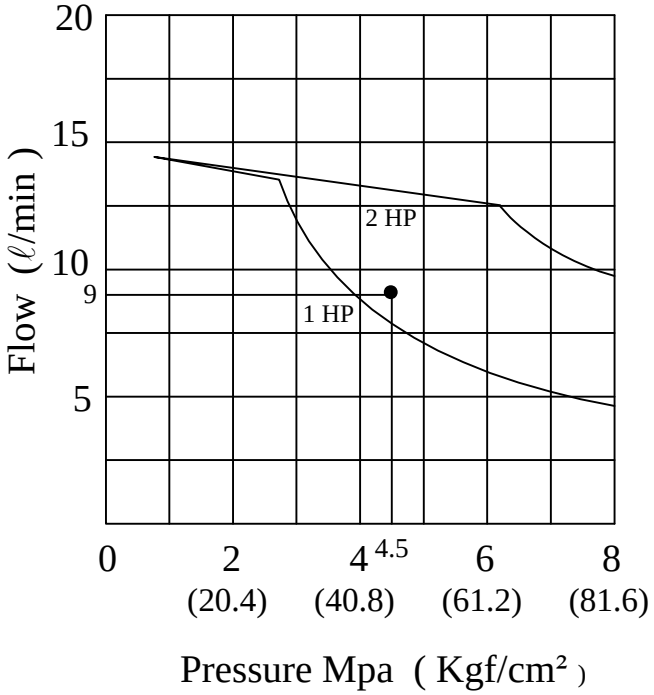
select a uni-pump that has a Pressure and flow rate that is within the range of the drive so that the drive will not overload

Example: Q= 9 l/min ,P= 4.5 Mpa must be used 2HP motor

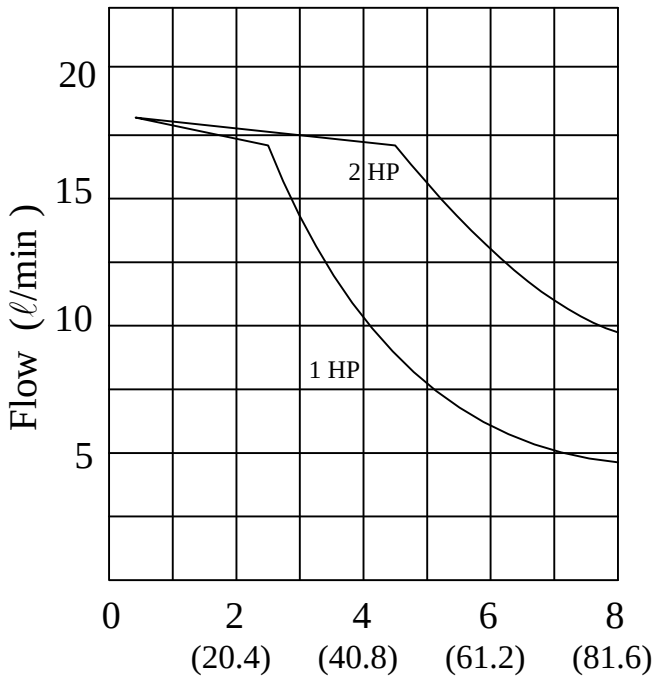
KVDN - 8 - * - * (1500rpm)



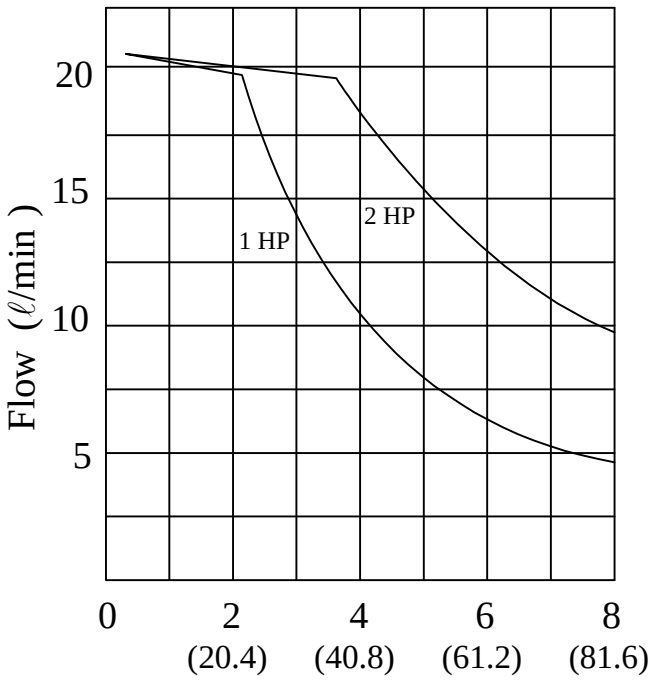
KVDN - 8 - * - * (1800rpm)



KVDN - 12 - * - * (1500rpm)



KVDN - 12 - * - * (1800rpm)

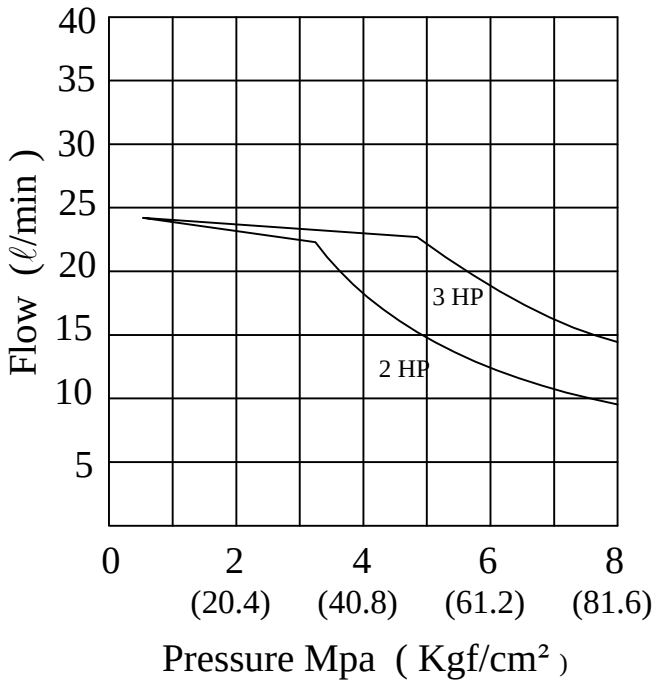


Motor Hp selection curves

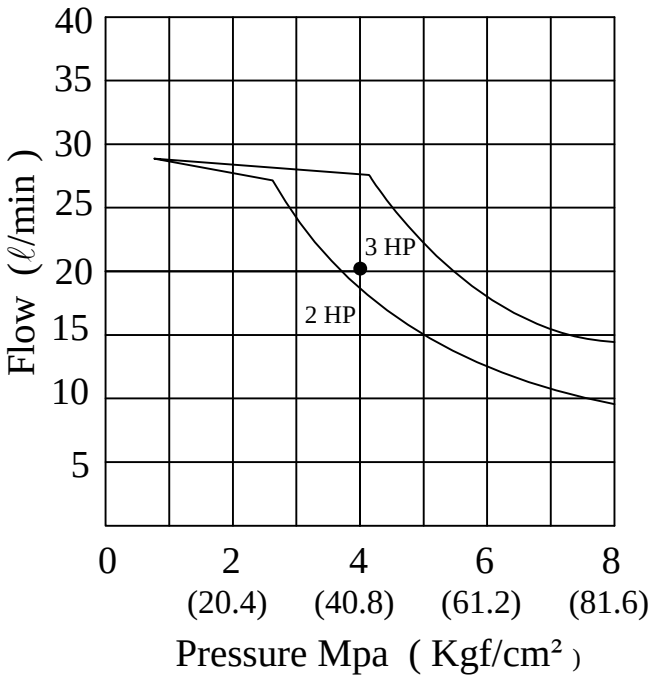
select a uni-pump that has a Pressure and flow rate that is within the range of the drive so that the drive will not overload

Example: Q= 20 ℓ/min, P= 4.0 Mpa must be used 3HP motor

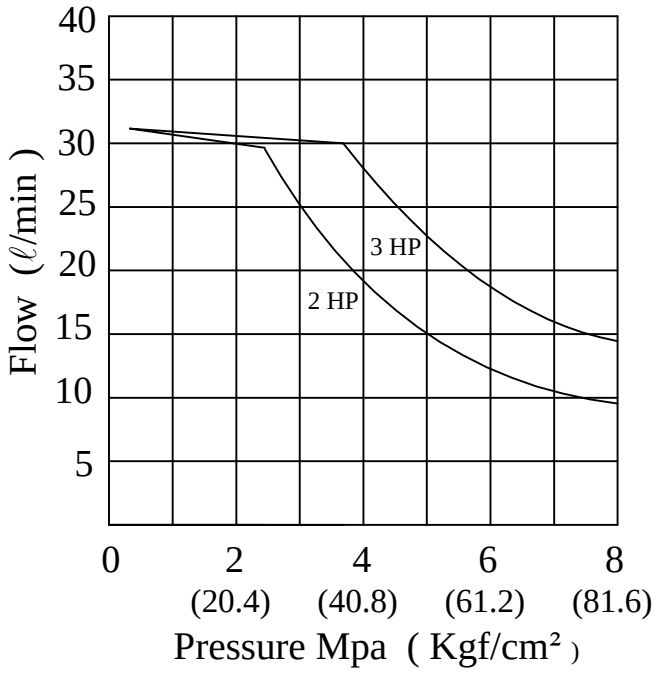
KVDN - 16 - * - * (1500rpm)



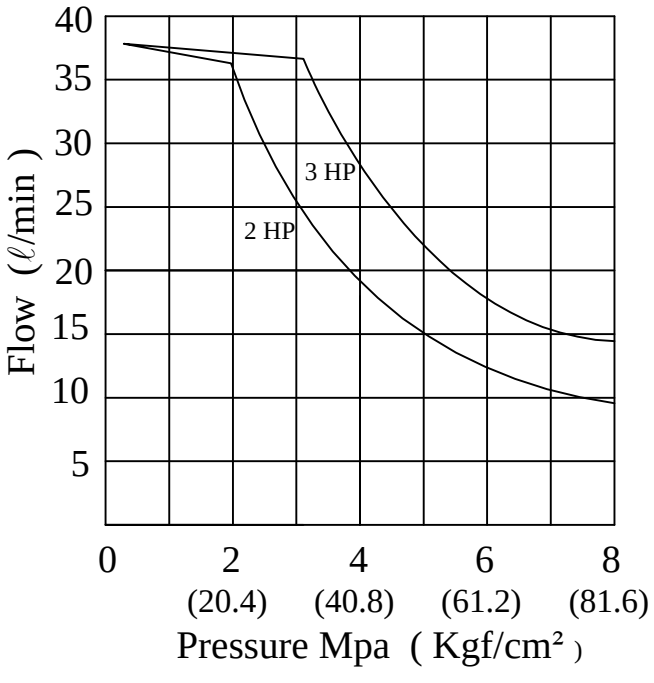
KVDN - 16 -* - * (1800rpm)



KVDN - 21 - * - * (1500rpm)

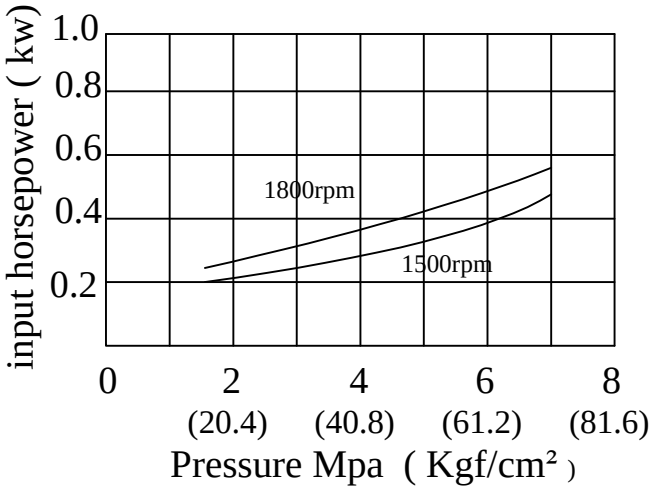


KVDN - 21 - * - * (1800rpm)

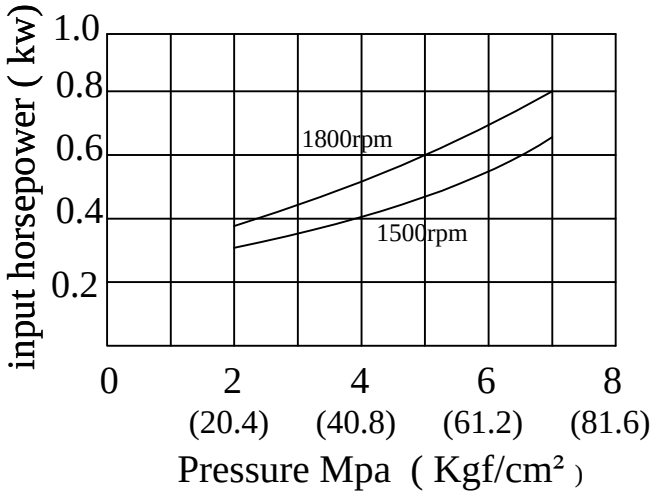


Deadhead input horsepower

KVDN - 8 / 12 - * - *

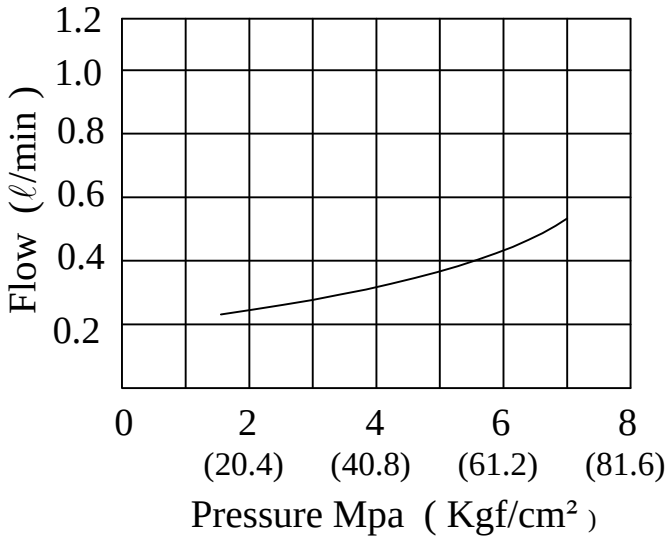


KVDN - 16 / 21 - * - *

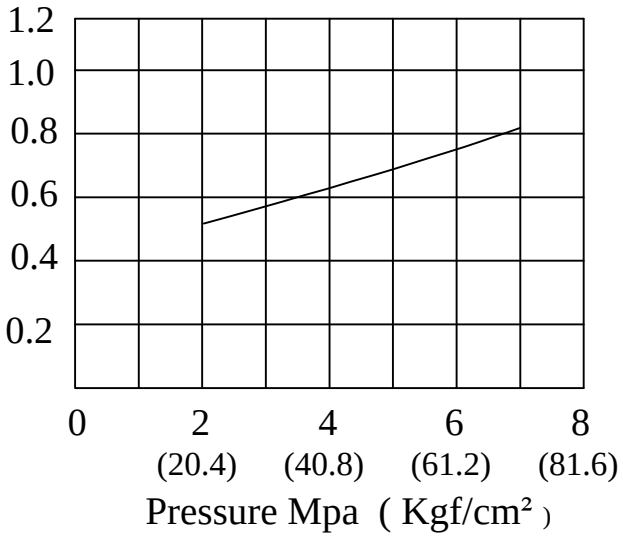


Deadhead drain volume

KVDN - 8 / 12 - * - *

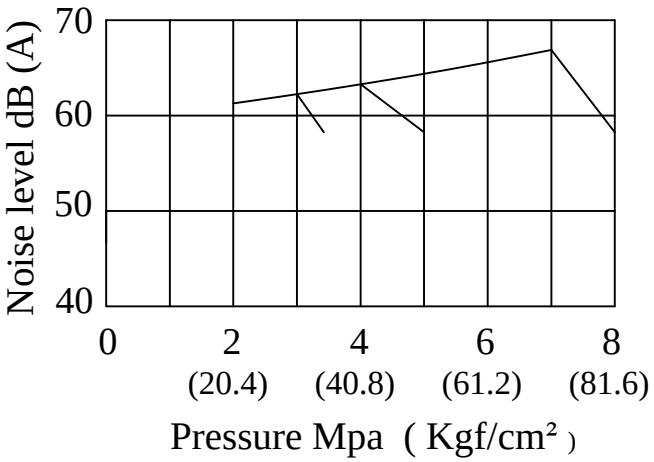


KVDN - 16 / 21 - * - *

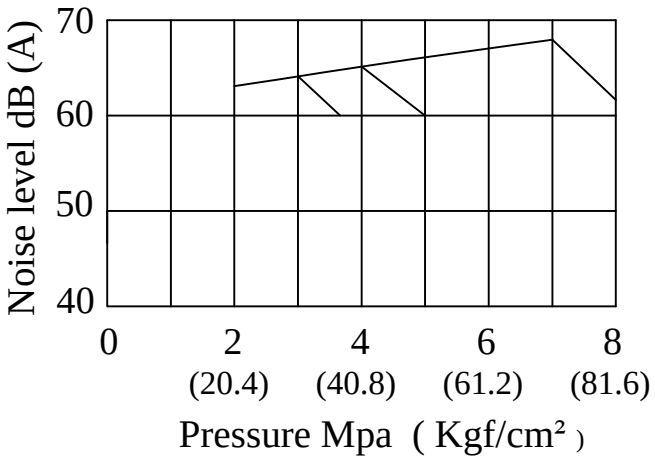


Noise characteristics

KUVN-8/12-*-4- 2 -4-A-10
(2HP*4P @1800 rpm)

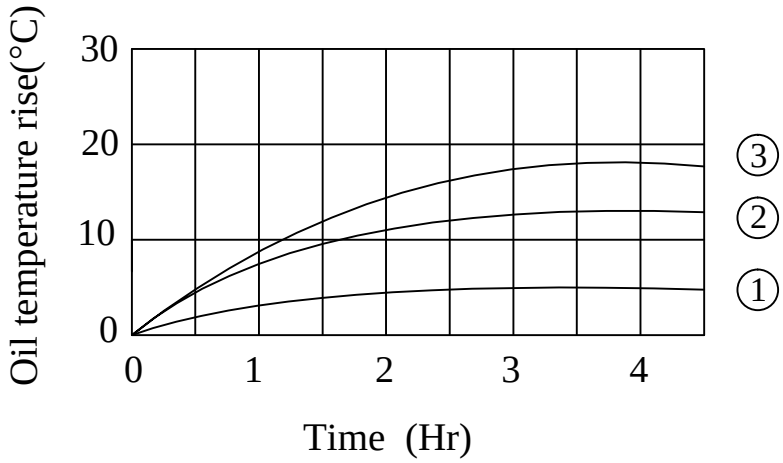


KUVN-16/21-*-4- 3 -4-A-10
3HP*4P @1800 rpm)



Oil temperature rise characteristics

KUVN-16-*-4- * -4-A-10
(1800 rpm ,Tank capacity 20 liter)



PS:

③ cutoff Pressure 7.0 Mpa (71.4 Kgf/cm²)

② cutoff Pressure 5.0 Mpa (51.0 Kgf/cm²)

① cutoff Pressure 3.5 Mpa (35.7 Kgf/cm²)