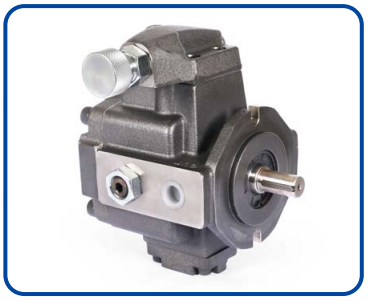
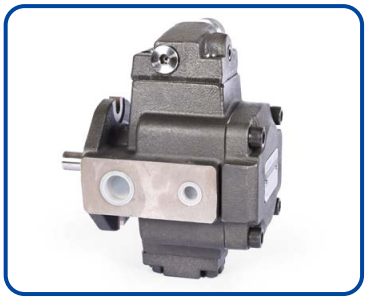
KPV-16

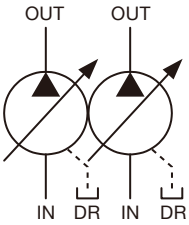




SYMBOLS

KPV (single vane pump)

KPVV (double vane pump)



ORDER CODES

KPV	-	16	-	F	-	1	-	A	12	-	01	-	01
①		②		③		④		⑤	⑥		⑦		⑧

KPVV	-	16	-	16	-	F	-	2	-	2	-	A	12	-	01	-	01
①		②P1		②P2		③		④P1		④P2		⑤	⑥		⑦		⑧

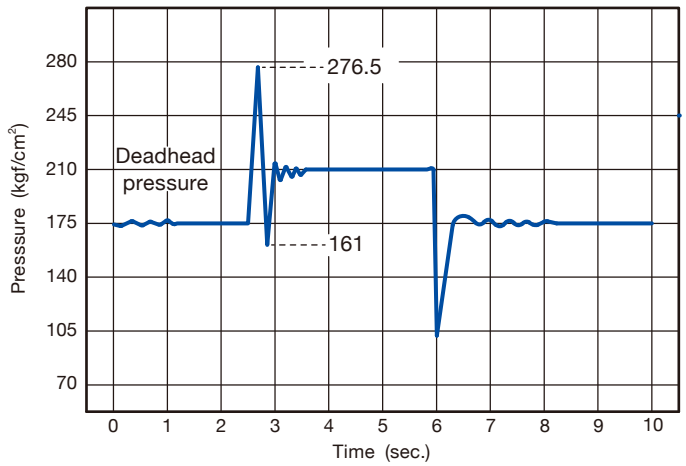
①	**Model Name**	**KPV**	single vane pump
		KPVV	double vane pump
②	**Displacement**	**8, 12, 16, 20, 23**	
③	**Pressure Adj. Knob**	**F**	
④	**Pressure Range**	**1**	15.3 ~ 142.8 kgf/cm^2
		2	20.4 ~ 214.2 kgf/cm^2
		3	25.5 ~ 255 kgf/cm^2
⑤	**Flange Mounting Type**	**A**	SAE A, Ø82.55
⑥	**Rotation Speed**	**12**	1200 r.p.m.
		15	1500 r.p.m.
		18	1800 r.p.m.
⑦	**Shaft Type**	**01**	Ø19.05
		02	SAE A, 9 tooth spline 16/32DP
⑧	**Thread**	**01**	S=RC 3/4, P=RC 1/2, DR=RC 3/8
		02	S=#16 SAE, P=#12 SAE, DR=#8 SAE

MODEL SPEC.

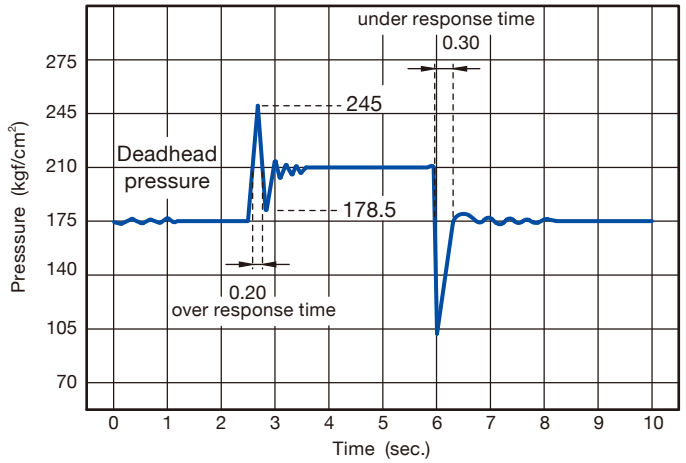
Model	Accurate Displacement Capacity (cc/rev)	Operating Pressure		Speed (r.p.m.)	No-load Discharge Rate (l/min)		Weight (kg)
		Open Loop Circuit	Close Loop Circuit		50Hz	60Hz	
KPV-8	8	Min. 15.3 kgf/cm^2 250 kgf/cm^2, 8sec Max. 255 kgf/cm^2	210 kgf/cm^2, continue	12: 1200 15: 1500 18: 1800	12	14.4	KPV: 16.6 KPVV: 33.2
KPV-12	12				18	21.6	
KPV-16	16				24	28.8	
KPV-20	20				30	36	
KPV-23	23				34.5	41.4	

PERFORMANCE CURVES

▸ KPV-16 Reaction Characteristics Shock Clipper Funtion



KPV-16 single stage compensator,
plot with shock clipper **inactive**.
Response overshoot : 66.5 kgf/cm^2
Response undershoot : 49.2 kgf/cm^2



KPV-16 single stage compensator,
plot with shock clipper **active**.
Response overshoot : 35 kgf/cm^2
Response undershoot : 31.5 kgf/cm^2
Response time : 20~30 ms

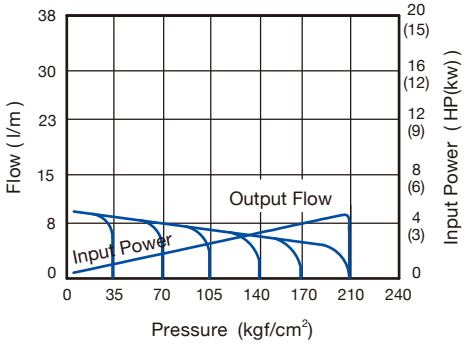
▸ Case Drain Flow

Spec.	Pressure (kgf/cm^2)	Flow (l/min)
Case drain flow while compensating @1800r.p.m. KPV-8, 12, 16, 20, 23	71.4	1.5 ~ 2.3
	142.8	2.5 ~ 3.8
	214.2	3.5 ~ 4.8

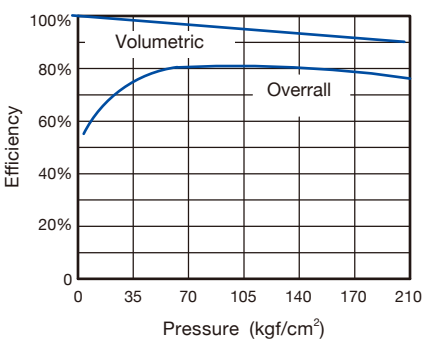
PERFORMANCE CURVES

▸ KPV-8

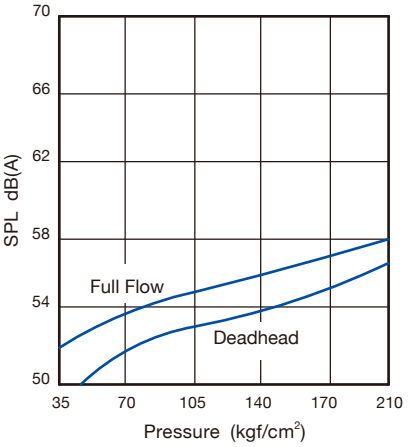
Output Flow & Power @1200r.p.m.



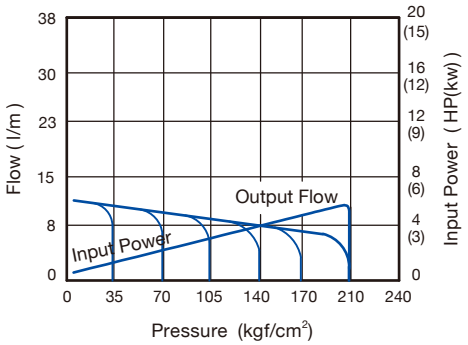
Efficiency @1200r.p.m.



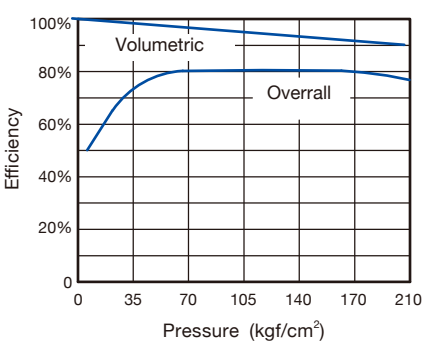
Sound Pressure @1200r.p.m.



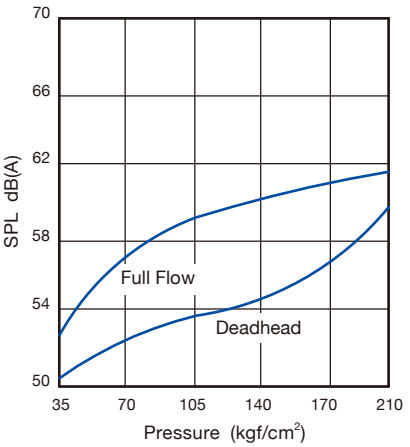
Output Flow & Power @1500r.p.m.



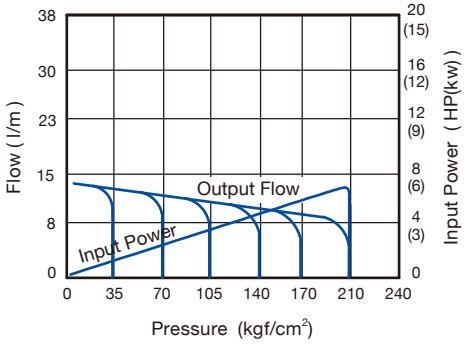
Efficiency @1500r.p.m.



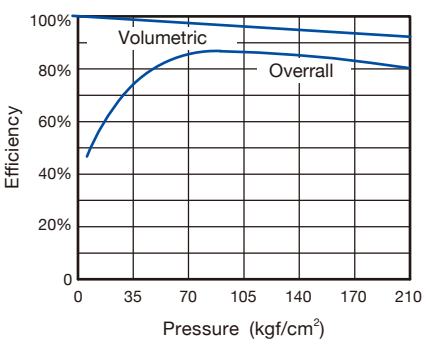
Sound Pressure @1500r.p.m.



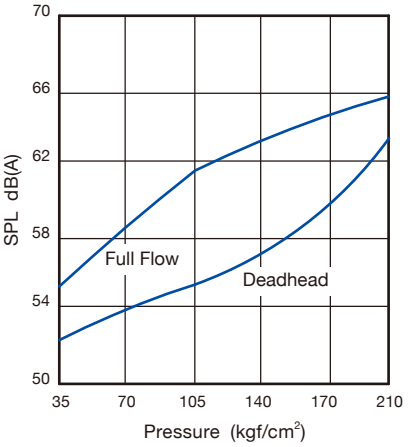
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.



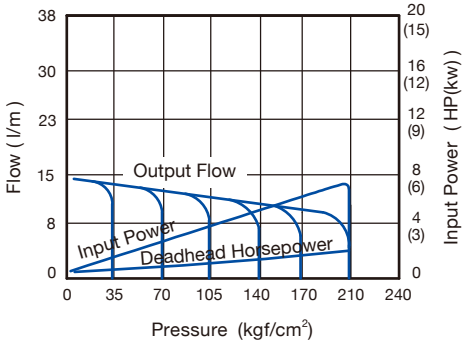
Sound Pressure @1800r.p.m.



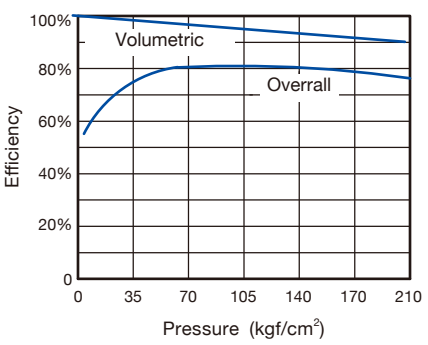
PERFORMANCE CURVES

▸ KPV-12

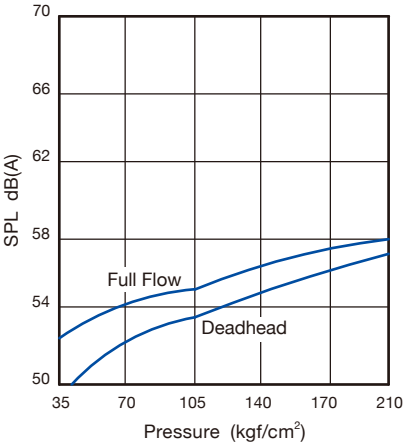
Output Flow & Power @1200r.p.m.



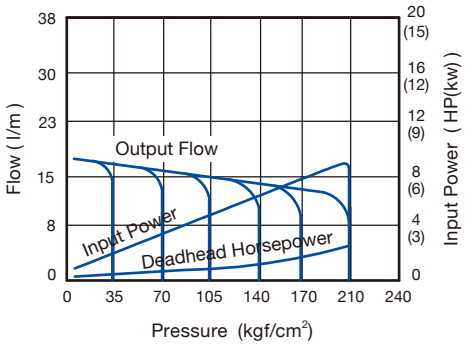
Efficiency @1200r.p.m.



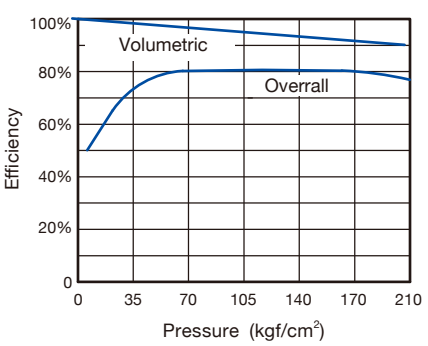
Sound Pressure @1200r.p.m.



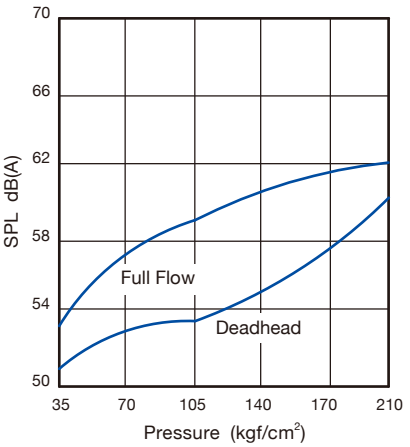
Output Flow & Power @1500r.p.m.



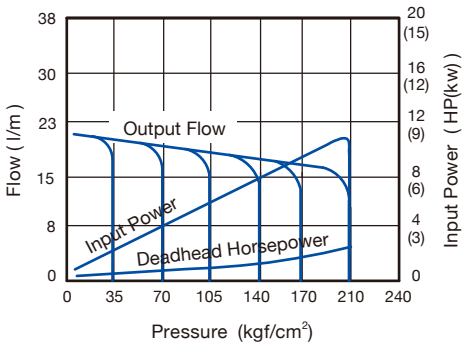
Efficiency @1500r.p.m.



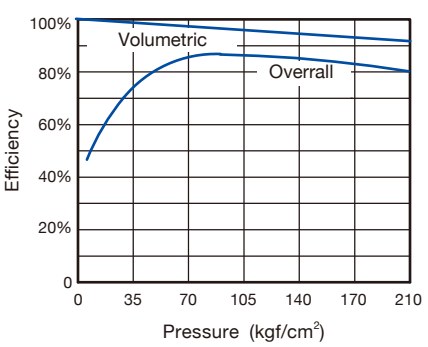
Sound Pressure @1500r.p.m.



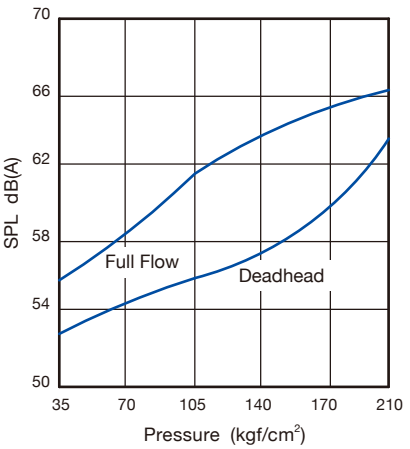
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.



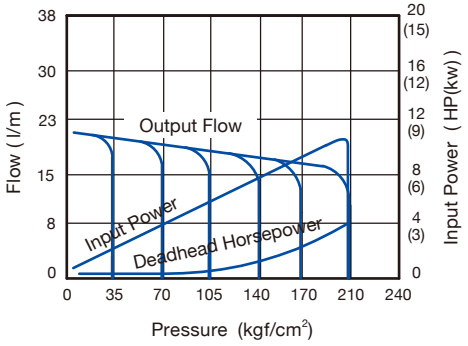
Sound Pressure @1800r.p.m.



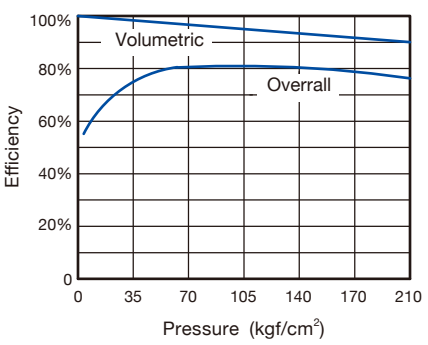
PERFORMANCE CURVES

▸ KPV-16

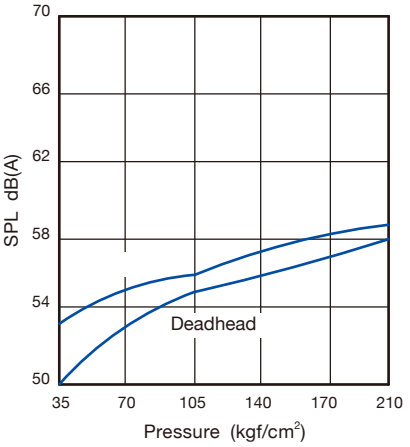
Output Flow & Power @1200r.p.m.



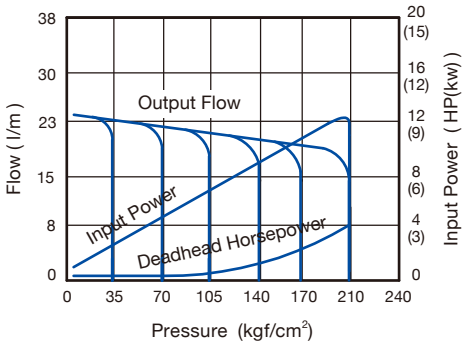
Efficiency @1200r.p.m.



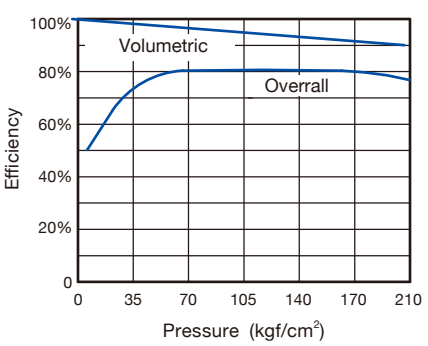
Sound Pressure @1200r.p.m.



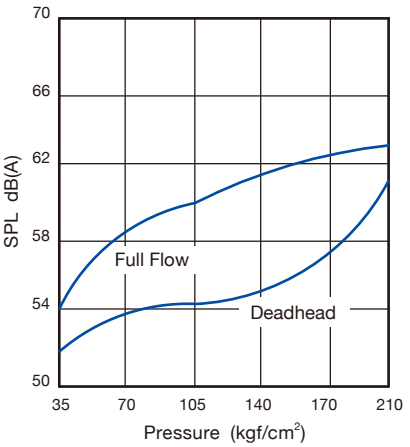
Output Flow & Power @1500r.p.m.



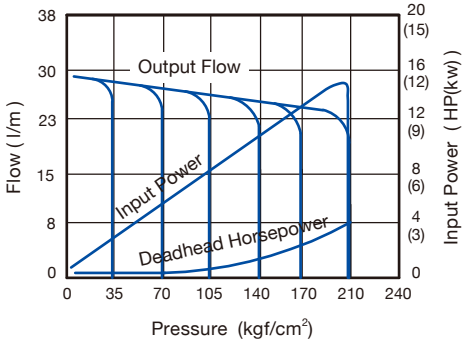
Efficiency @1500r.p.m.



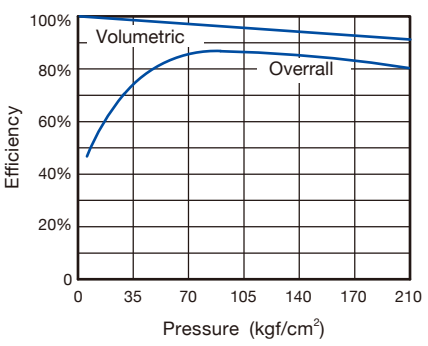
Sound Pressure @1500r.p.m.



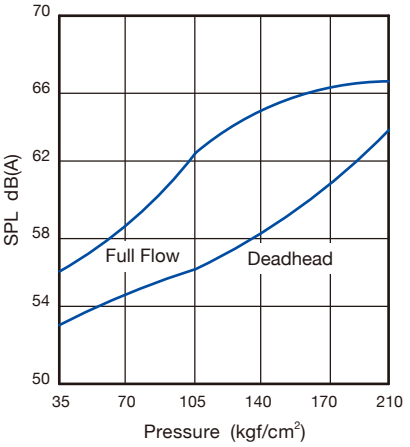
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.



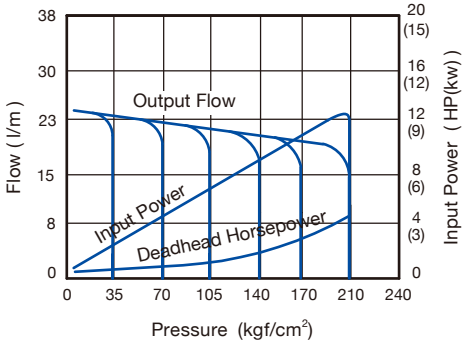
Sound Pressure @1800r.p.m.



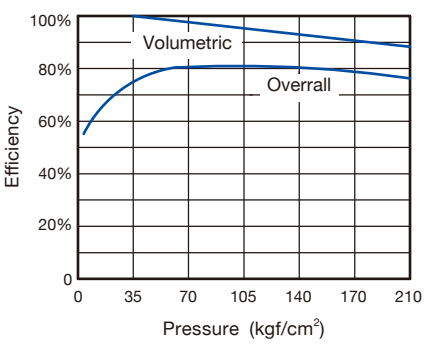
PERFORMANCE CURVES

▸ KPV-20

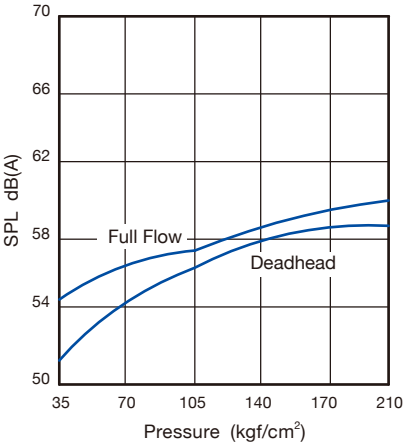
Output Flow & Power @1200r.p.m.



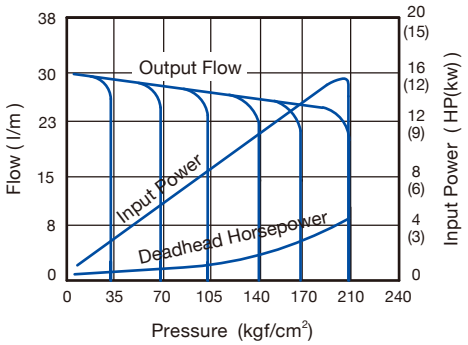
Efficiency @1200r.p.m.



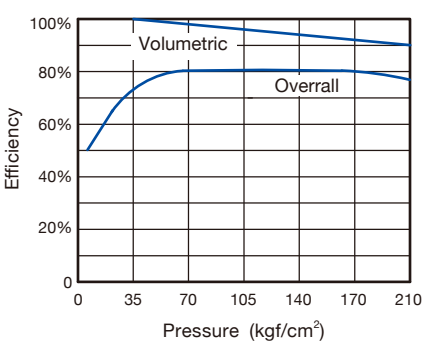
Sound Pressure @1200r.p.m.



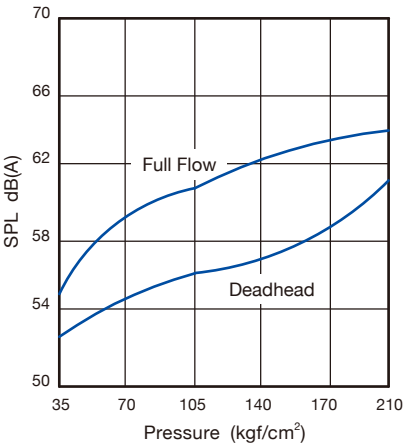
Output Flow & Power @1500r.p.m.



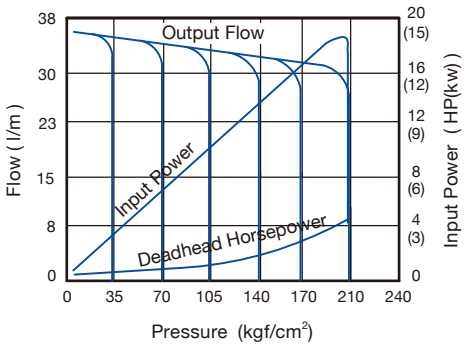
Efficiency @1500r.p.m.



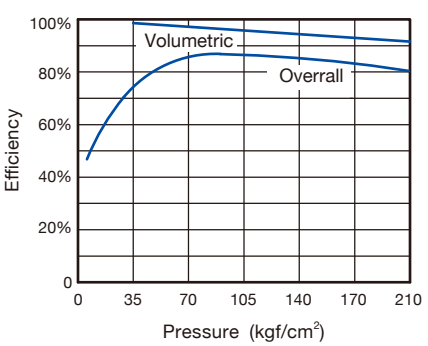
Sound Pressure @1500r.p.m.



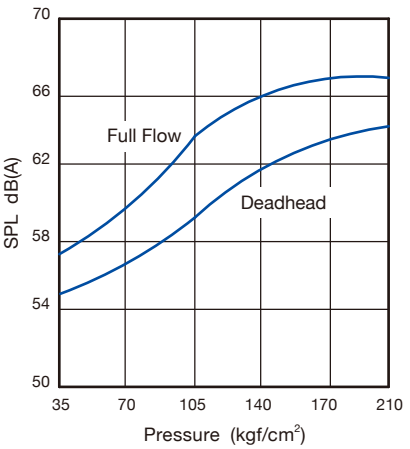
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.



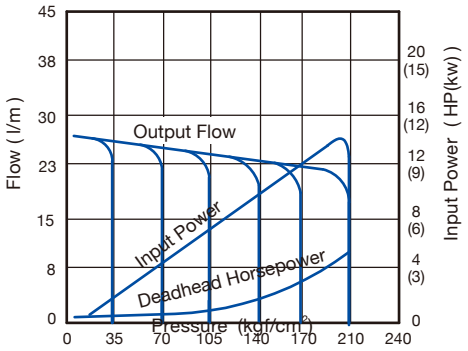
Sound Pressure @1800r.p.m.



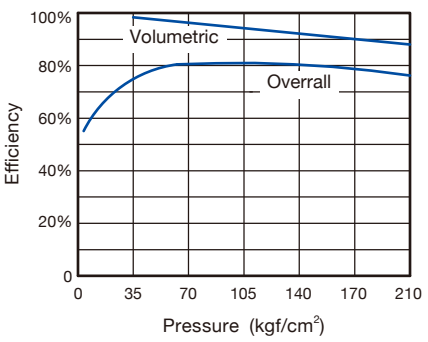
PERFORMANCE CURVES

▸ KPV-23

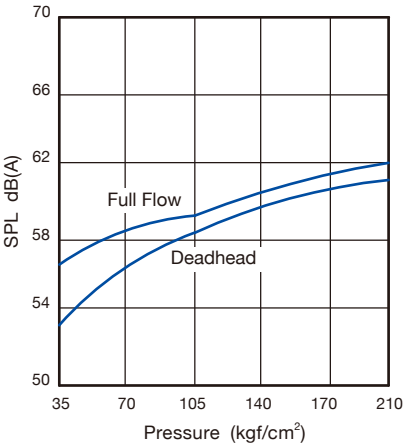
Output Flow & Power @1200r.p.m.



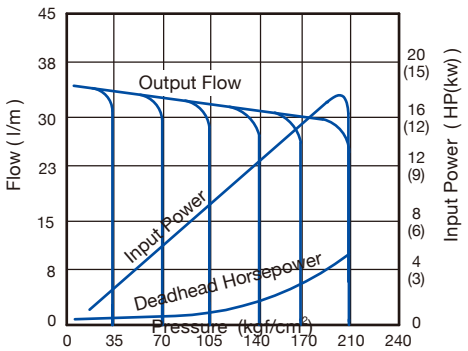
Efficiency @1200r.p.m.



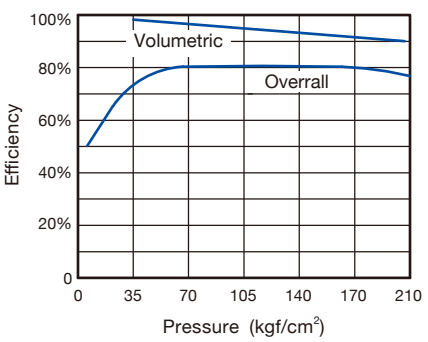
Sound Pressure @1200r.p.m.



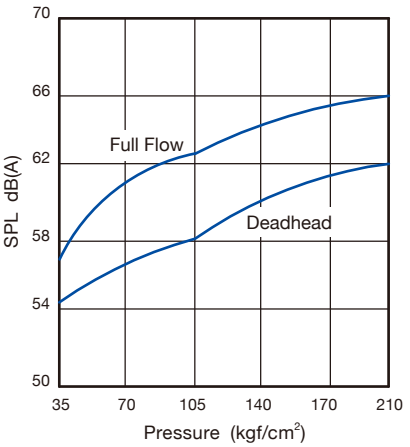
Output Flow & Power @1500r.p.m.



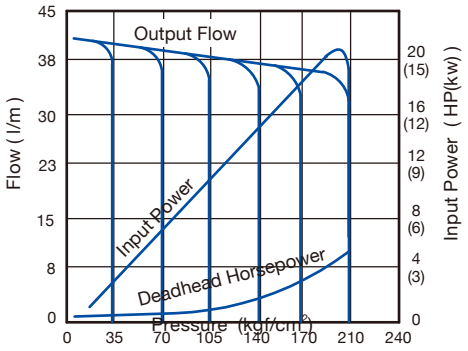
Efficiency @1500r.p.m.



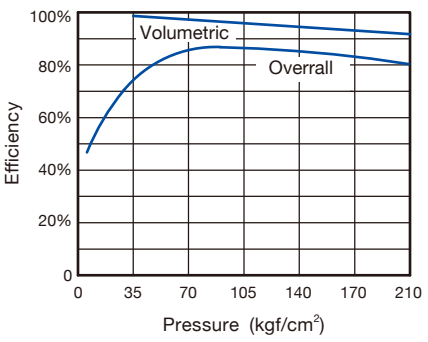
Sound Pressure @1500r.p.m.



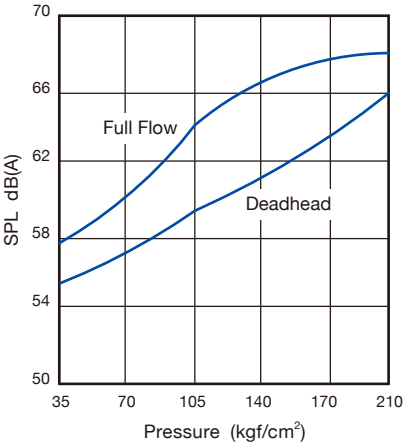
Output Flow & Power @1800r.p.m.



Efficiency @1800r.p.m.

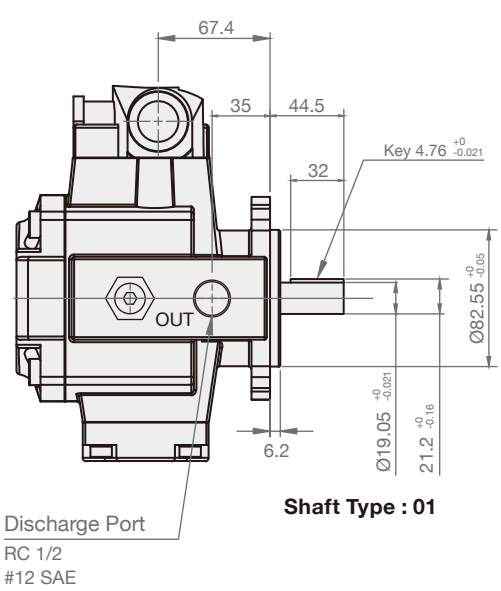


Sound Pressure @1800r.p.m.

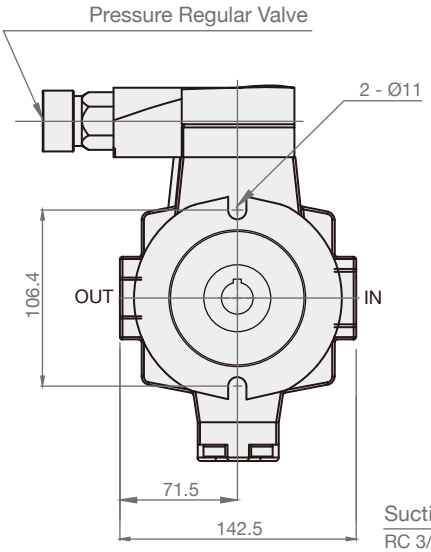


DIMENSION (UNIT : mm)

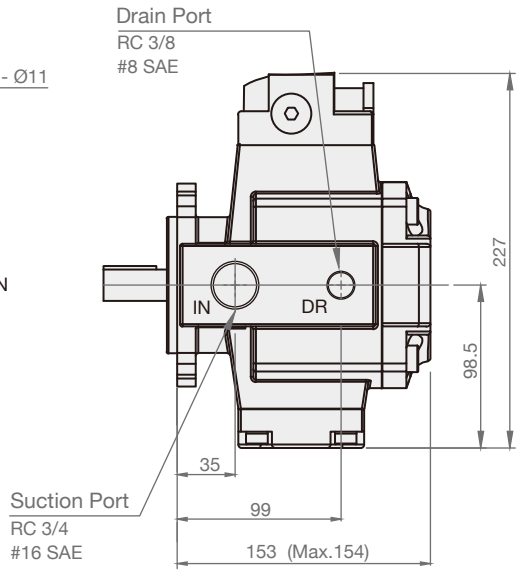
▸ KPV-8, 12, 16, 20, 23

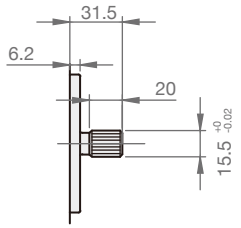


Shaft Type : 01

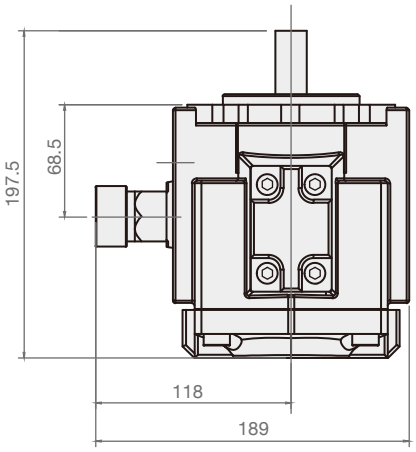


SAE A Mounting Flange

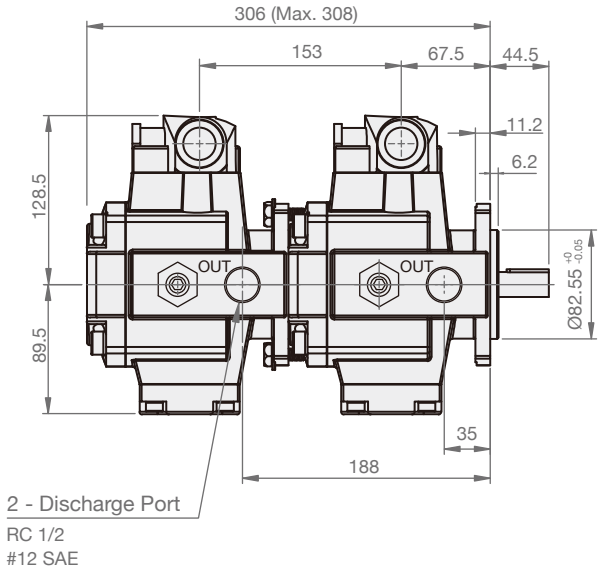


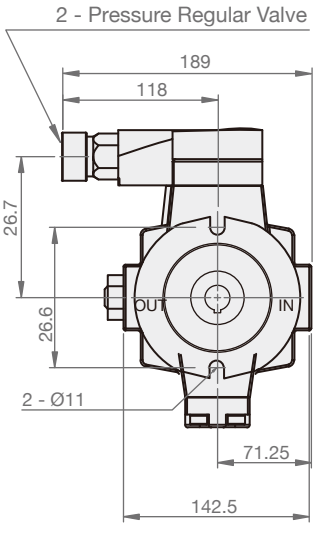


Shaft Type : 02
Diametral pitch : 16/32
Pressure angle : 30°
No. of teeth : 9
Available on "A" cover only



▸ KPVV-8, 12, 16, 20, 23





SAE A Mounting Flange