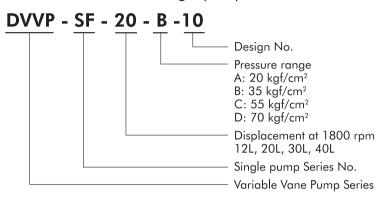


Features:

- 1. High efficiency operation with minmum power loss.
- 2. Quiet opeartion, even in high pressure range, with minimum vibration.
- 3. Compact and simple design, easy for operation.
- 4. Precision characteristics and prompt response.
- 5. Sturdy structure for high efficiency and long service life.
 - **HOW TO ORDER** Sigle pump:



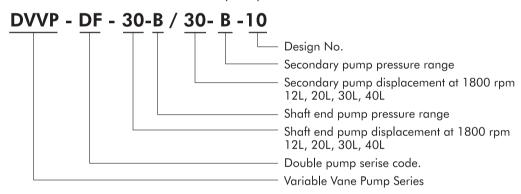








Double pump:



Handling:

- 1. The direction of rotation is always clockwise when viewed from the shaft end..
- Drain piping must be direct pipe up to a point that is below the tank fluid level. And the back pressure should not exceed 0.3 kgf/cm².
- When adjusting the pressure, pressure is increased by clockwise rotation and decreased by counterclockwise rotation.
- 4. When adjusting the flow rate, the flow rate is decreased by clcokwise rotation, and increased by counterclockwise rotation.
- 5. Factory default P-Q settings: Flow rate setting =Maximum flow rate for model as indicated in the Pressure setting =Show as following

A:20 kgf/cm², B:35 kgf/cm², C:55 kgf/cm², D:70 kgf/cm² $Q=q \times N \times 10^{-3}$

Q:No load discharge rage (L/min)

q:Capacity (c.c./rev)

N:Revolution speed (rpm)

6. Thrust Screw: This screw was precision adjusted at the factory, **Never touch this screw**.

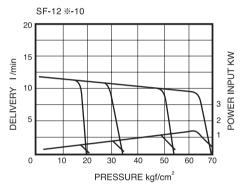
- 7. Intial opeartion: Before opearation the pump in first time, put the out port side at no-load state, and then repeat start and stop the motor to bleed all air from the inside of pump. After confirming the out-port is discharging oil, continue the no-load opeartation at least 10 minutes.
- 8. Hydraulic oil: Please use wear resistant hydraulic oil, ISO VG32 to 68 or equivalent.
- 9. Operating temperature: Within 15 to 60°C. When oil termperature is under 15°C, use a warm-up operation at low pressure until oil temperature is higher then 15°C.
- 10. Suction pressure is within -0.3 to 0.3 kgf/cm².
- 11. Avoid to use pully and gear to drive the shaft.
- 12. Use suction strainer with filtering grade of 150 mesh.
- 13. Oil contamination must within the class of NAS 10 degree.
- 14. Add a bleed valve in the circuit when it is difficult to bleed air off.
- 15. When centering the pump and motor shaft: eccentricity should be no greater then0.05mm. and the angle error should be within 1°.

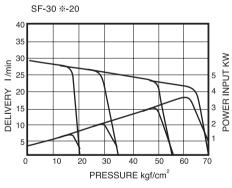


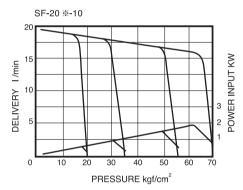
■ TECHNICAL DATA

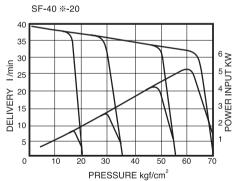
Model No.	Delivery at no load L/min		Pressure Adj Range	Shaft RF	Speed PM	Max Pressure	Weight
	1800rpm	1500rpm	kgf/cm²	Max	Min	kgf/cm²	kg
SF-12A	12	10	10-20	1800	800	20	5.0
SF-12B			15-35			35	5.0
SF-12C			30-55			55	5.0
SF-12D			50-70			70	5.0
SF-20A	20	17	10-20	1800	800	20	5.0
SF-20B			15-35			35	5.0
SF-20C			30-55			55	5.0
SF-20D			50-70			70	5.0
SF-30A	30	25	10-20	1800	800	20	9.0
SF-30B			15-35			35	9.0
SF-30C			30-55			55	9.0
SF-30D			50-70			70	9.0
SF-40A	40	35	10-20	1800	800	20	9.0
SF-40B			15-35			35	9.0
SF-40C			30-55			55	9.0
SF-40D			50-70			70	9.0

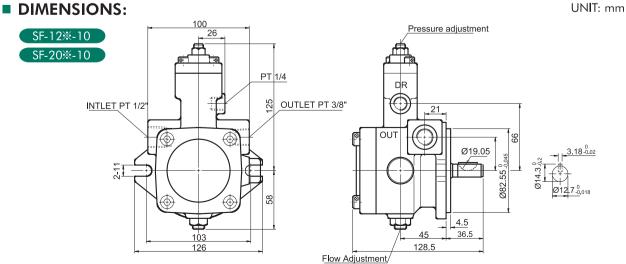
PERFORMANCE CURVE









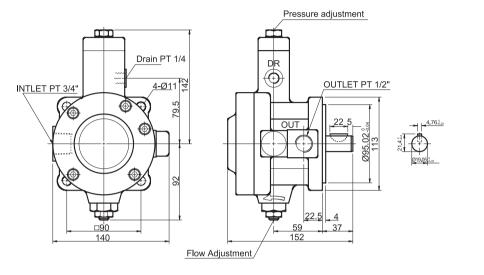


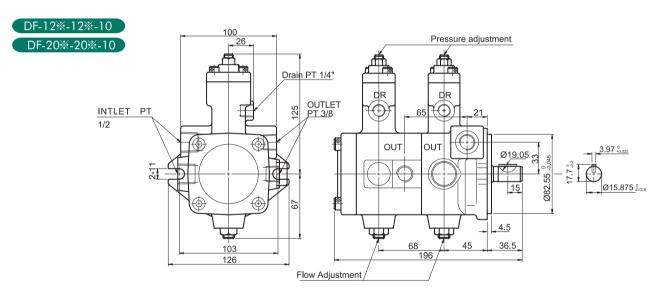
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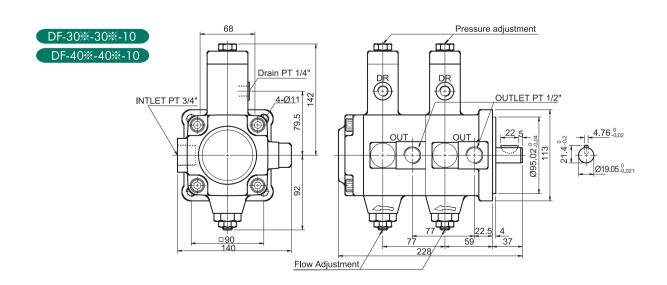


■ DIMENSIONS: UNIT: mm







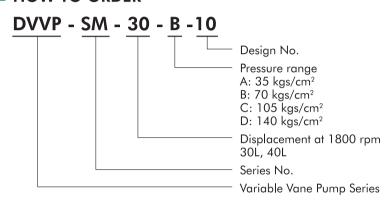




Features:

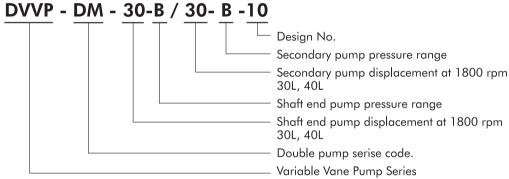
- 1. High efficiency, high-pressure operation
- 2. Extremely low vibration and noise level.
- 3. Instant response for precision operation.
- 4. Stable and sharp cut-off characteristics.
- 5. Sturdy structure for high efficiency and long service life.
- 6. Easy adjustment in handling and maintenance.

■ HOW TO ORDER









Handling:

- 1. The direction of rotation is always clockwise when viewed from the shaft end..
- Drain piping must be direct pipe up to a point that is below the tank fluid level. And the back pressure should not exceed 0.3 kgf/cm².
- When adjusting the pressure, pressure is increased by clockwise rotation, and decreased by counterclockwise rotation.
- 4. When adjusting the flow rate, the flow rate is decreased by clcokwise rotation, and increased by counterclockwise rotation.
- 5. Factory default P-Q settings: Flow rate setting =Maximum flow rate for model as indicated in the

Pressure setting = Show as following

A:20 kgf/cm², B: 35 kgf/cm², C: 55 kgf/cm², D: 70 kgf/cm² Q=q x n x 10-3

Q: No load discharge rage (L/min)

q: Capacity (c.c./rev)

N: Revolution speed (rpm)

- Thrust Screw: This screw was precision adjusted at the factory, Never touch this screw.
- 7. Intial opeartion: Before opearation the pump in first time, put

the out port side at no-load state, and then repeat start and stop the motor to bleed all air from the inside of pump. After confirming the out-port is discharging oil, continue the noload opeartation at least 10 minutes.

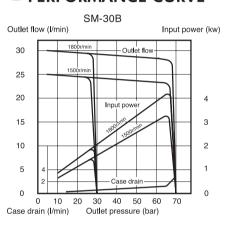
- 8. Hydraulic oil: Please use wear resistant hydraulic oil, ISO VG32 to 68 or equivalent.
- 9. Operating temperature: Within 15 to 60°C. When oil termperature is under 15°C, use a warm-up operation at low pressure until oil temperature is higher then 15°C.
- 10. Suction pressure is within -0.3 to 0.3 kgf/cm².
- 11. Avoid to use pully and gear to drive the shaft.
- 12. Use suction strainer for vane with filtering grade of 150 mesh.
- 13. Oil contamination must within the class of NAS 10 degree.
- Add a bleed valve in the circuit when it is difficult to bleed air off.

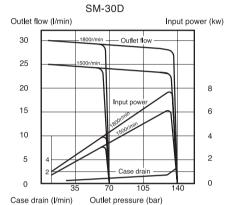


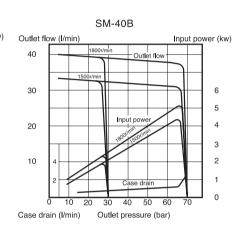
TECHNICAL DATA

Model No.	Delivery at no load L/min		Pressure Adj Range	Shaft RF	Speed M	Max Pressure	Weight
	1800rpm	1500rpm	kgf/cm²	Max	Min	kgf/cm²	kg
SM-30A	30	25	15-35	1800	800	35	9.7
SM-30B			20-70			70	9.7
SM-30C			50-105			105	9.7
SM-30D			70-140			140	9.7
SM-40A	40	35	15-35	1800	800	35	9.7
SM-40B			20-70			70	9.7

PERFORMANCE CURVE







■ DIMENSIONS: UNIT: mm

