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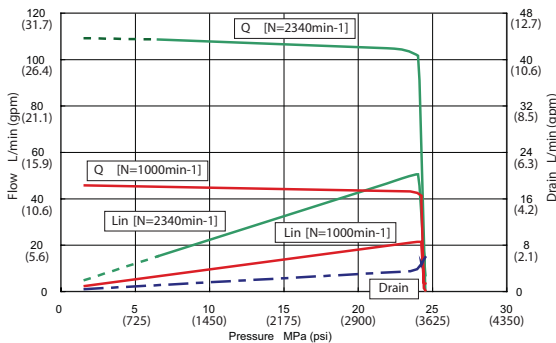


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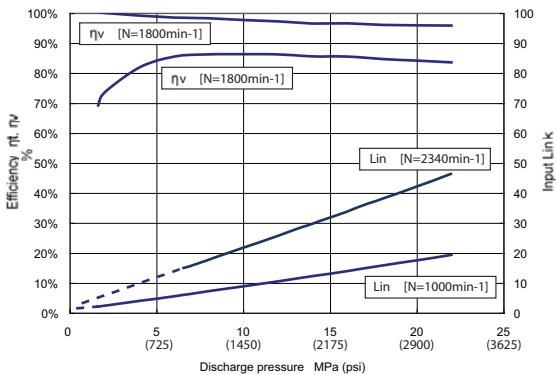
PVS-2B for Mobile Applications

Variable Displacement Piston Pump

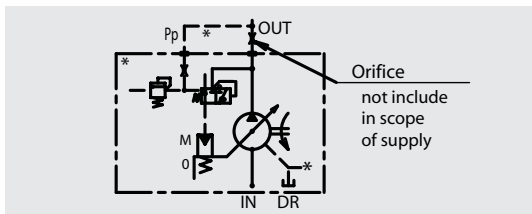
Pressure-Flow Volume Characteristics



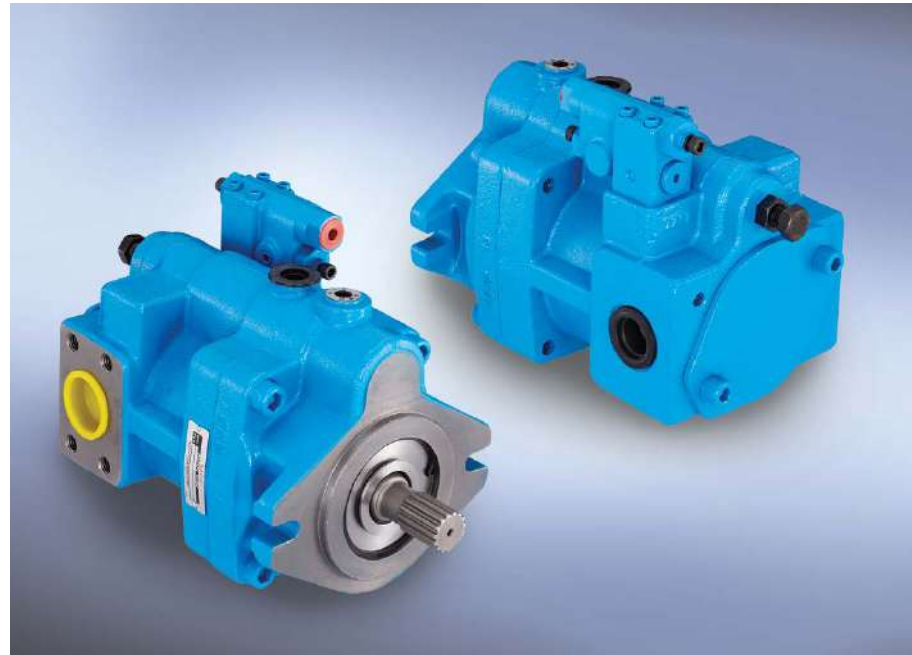
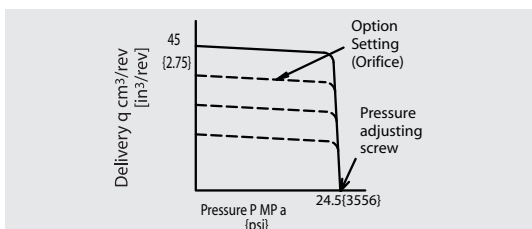
General Performance



JIS Symbol



Pressure-Flow



Features

- Low Noise and Low Pulsation Due to Use of 11 Pistons
- Load Sensing Control Type
- Flange Type Inlet Port (SEA J518b-1-1/2), Thread Type Outlet Port (1-1/16-12UN-2B)
- Tandem Pump Installation Is Possible (SAE A 2 Bolts Flange Mounting)
- Counter-Clockwise Direction of Rotation
- SAE B 2 Bolts Flange Mounting
- Shaft Dimension is 30° Involute Spline with **15T** and 16/32 Dp

Specifications

Model	Max. Volume cm3/rev (in3/rev)	Pressure adjustment MPa (psi)	Permitted peak pres- sure MPa (psi)	Rotating speed min-1	Mass kg(lbs)
PVS-2B-45R3-L-E5127Z	45 (2.75)	2 (290) - 24.5 (3556)	29.4 (4267)	500 - 2340	25 (55.1)

mm(inch)

Front View:

- Pressure adjusting screw
- Lock nut
- Flow rate adjusting screw
- Drain port 3/4-16UNF-2B(SAEJ475)
- 2-M10 tap depth 15 (0.59)
- Inlet port 4-M12 tap depth 20 (0.78)
- SAE1518B-1-1/2

Side View:

- Involute spline SAE J498B 11 teeth 16/32 DP ($\alpha=30^\circ$)
- 15(0.59)
- 192(7.56)
- 238.5(9.39)
- 36(1.42)
- 70(2.76)
- 69.5(2.74)
- 115(4.53)
- 36.2 (1.03)
- 52.1 (2.05)
- 50.1 (1.97)

Top View:

- Lubrication port
- Pilot port 7/16-20UNF-2B
- Differential pressure adjusting screw (adjustment forbidden)
- 172(6.77)
- 104(4.09)
- 45(1.77)
- 115(4.53)
- 128(5.04)
- 13(0.51)
- 146(5.75)
- 172(6.77)
- 65(2.56)

Tandem-pump installation (Head-side)

Sub plate

Option

Tandem-pump

Range dimensions SAE4200(194)

Detail of Outlet port

1-1/16-12UN-2B

Involute spline SAE J498B 11 teeth 16/32 DP ($\alpha=30^\circ$)

Dimensions:

- 0
- 0.05
- 0.65
- 2.59 (0.102)
- 2.561
- 0.40
- 1.57
- 0.228 (0.009)
- 0.186 (0.007)
- 10(0.39)
- 12.5(0.49)
- 31(1.22)

The graph plots Noise level L_A (dB(A)) on the y-axis (ranging from 48 to 80) against Operating Pressure (MPa (psi)) on the x-axis (ranging from 0 to 25). Four data series are shown:

- 1000min-1(qmin) (Red line with open squares)
- 2340min-1(qmin) (Red line with open triangles)
- 1000min-1(qmax) (Blue line with solid squares)
- 2340min-1(qmax) (Blue line with solid triangles)

All series show an increasing trend of noise level with increasing operating pressure. The 2340min-1(qmin) series consistently shows the highest noise levels, while the 1000min-1(qmin) series shows the lowest.

Operating Pressure (MPa (psi))	1000min-1(qmin) [dB(A)]	2340min-1(qmin) [dB(A)]	1000min-1(qmax) [dB(A)]	2340min-1(qmax) [dB(A)]
1 (1.45)	48.0	59.0	60.0	72.0
5 (7.25)	53.0	64.0	61.0	74.0
10 (14.5)	57.0	67.0	64.0	76.0
15 (21.75)	59.0	69.0	66.0	77.0
20 (29.0)	61.0	70.0	67.0	77.0
25 (36.25)	63.0	72.0	-	-

- Noise characteristics
Operating oil: ISO VG 46
Oil temperature: 50°C (122°F)
Place: anechoic chamber
Microphone: 1m (3.3feet) from pump
- Other characteristics
Operating oil: ISO VG 46
Oil temperature: 70°C (158°F)

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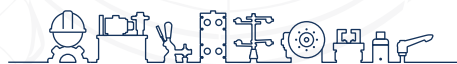
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