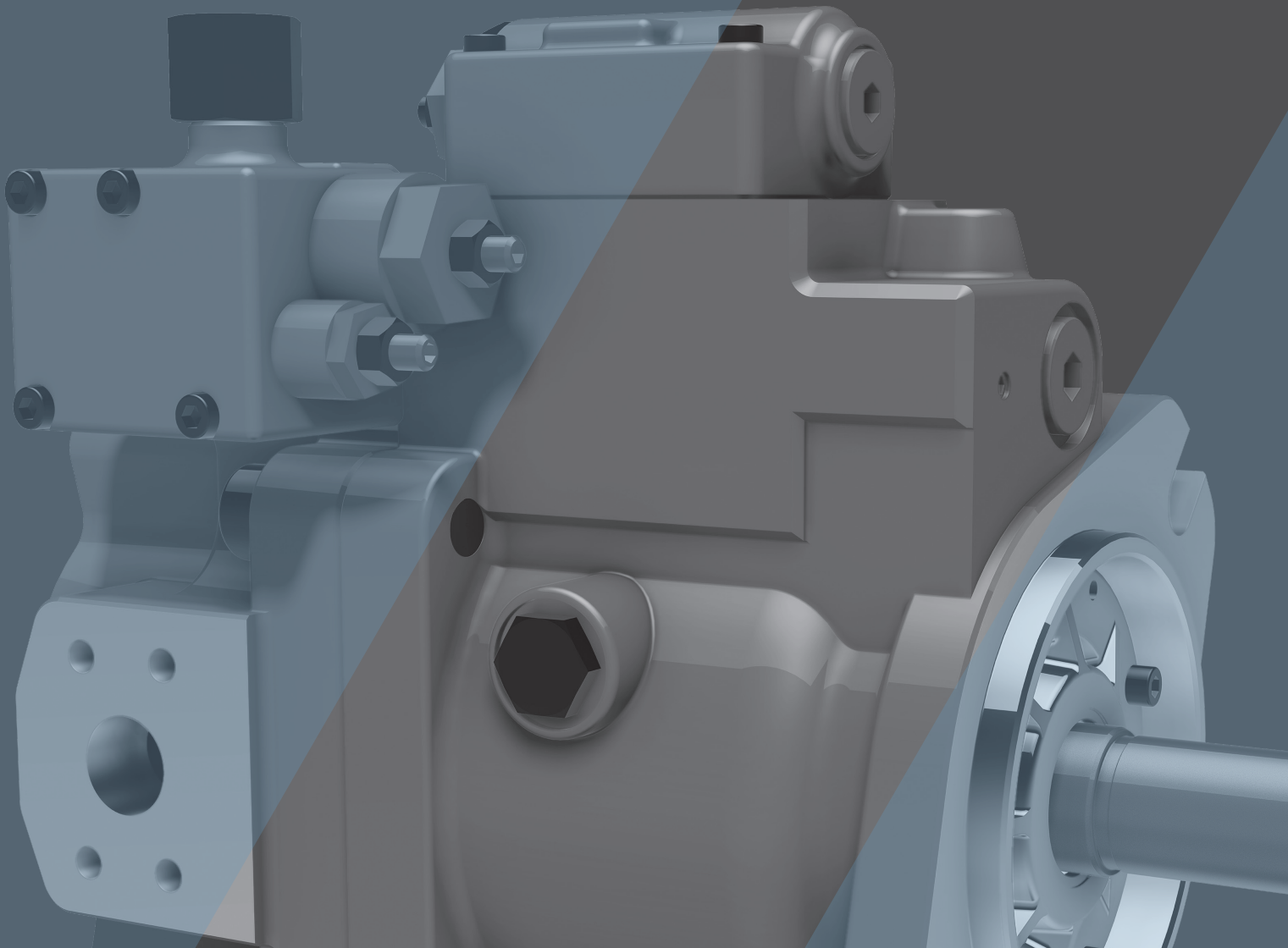


Swash-plate Axial Piston Pump **K3VL**

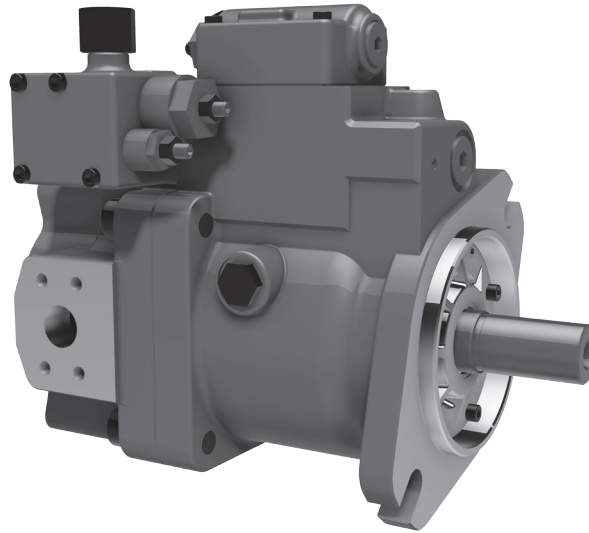


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K3VL B Series

Swash-plate Axial Piston Pump



■ General Descriptions

The K3VL Series Swash Plate Type Axial Piston Pumps are designed to satisfy the marine, mobile and industrial markets where a medium/high pressure variable displacement pump is required.

K3VL Pumps are available in nominal displacements ranging from 28 to 200 cm³/rev with various pressure, torque limiter, and a combination of load sensing control options.

■ Features

**4600 PSI (320 bar) Continuous Pressure Rating
(3625 PSI (250 bar) for K3VL60)**

High Overall Efficiency (>90% peak)

Exceptional Self Priming capability

SAE and ISO Mounting and Shaft

**Excellent Reliability and very long
Service Life**

High Power to Weight Ratio

Numerous Control options

Highly Responsive Controls

Low Pulsation and Noise Emissions

**Integral Unloading or Proportional Pressure
Relief Valves available**

**High Speed Version with Integral Impeller
(K3VL200H)**

1

Ordering Code

1-1 Pump Options

K3VL 80 () /B - 1 0 R S S - LO () /1-H1

K3VL Series Pump

Maximum Displacement

28	1.71 in ³ /rev
45	2.75 in ³ /rev
60	3.66 in ³ /rev
80	4.88 in ³ /rev
112	6.83 in ³ /rev
140	8.54 in ³ /rev
200	12.20 in ³ /rev

Impeller (K3VL200 only)

H	With Impeller
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Design Series

B	K3VL45 - 200
C	K3VL28 Only

Hydraulic Fluid Type

-	Mineral Oil (Nitrile Seals + Viton Shaft Seal)
V	Viton Seals Throughout
1. W	Water Glycol (Nitrile Seals including Shaft Seal)

All other fluids contact KPM

Circuit Type

1	Open Circuit
---	--------------

Porting Threads

M	Metric threaded
S	UNC threaded

Mounting Flange & Shaft

K	SAE Key & Mount
M	ISO Key & Mount (not K3VL200)
S	SAE Spline & Mount
R*	SAE-C Spline & D Mount (K3VL112/140 Only)
C*	SAE-C Spline & C2 Mount (K3LV112/140 Only)
X*	SAE-C Key & C2 Mount (K3VL112/140 Only)
Y*	SAE-CC Key & C2 Mount (K3VL112/140 Only)
W*	SAE-CC Spline & C2 Mount (K3VL112/140 Only)
F*	SAE-F Spline & E Mount (K3VL200 Only)
T	SAE-B Spline & B Mount (K3VL45/60 Only)

Direction of Rotation

R	Clockwise Rotation
L	Counter Clockwise Rotation

Through Drive & Porting

O	Without Through Drive (CW Only)
A	SAE-A Through Drive, Side Ported
B	SAE-B Through Drive, Side Ported
1. BB	SAE-BB Through Drive, Side Ported
5. C	SAE-C, 2 Bolt, Through Drive, Side Ported
5. C4	SAE-C, 4 Bolt, Through Drive, Side Ported
2. CC	SAE-CC, 2 Bolt, Through Drive, Side Ported
2. CC4	SAE-CC, 4 Bolt, Through Drive, Side Ported
6. D	SAE-D Through Drive, Side Ported
7. E	SAE-E Through Drive, Side Ported
R	Single Pump, Rear Ported
N	Single Pump with Steel Cover, Side Ported
S	No Coupling, Prepared For Through Drive

* Non standard options

1-2 Regulator Options

K3VL 80 () /B - 1 0 R S S - L0 ()()/1-H1

Regulator Type

	L0	Load Sense & Pressure Cut-Off (With R4 Bleed)
	L1	Load Sense & Pressure Cut-Off (With R4 Blocked)
1.	LM	Load Sense & Integral Unload (Normally Open)
1.	LN	Load Sense & Integral Unload (Normally Closed)
1,3.	LV	Load Sense & Integral Proportional Relief
4.	LV2	Load Sense & Integral Proportional Relief (Mobile)
	P0	Pressure Cut-Off
1.	PM	Pressure Cut-Off & Integral Unload (Normally Open)
1.	PN	Pressure Cut-Off & Integral Unload (Normally Closed)
1,3.	PV	Pressure Cut-Off & Integral Proportional Relief
4.	PV2	Pressure Cut-Off & Integral Proportional Relief (Mobile)

1.
1.
1,3.
4.
1.
1.
1,3.
4.

- 1. Not Available on K3VL28 or with Through Drives
- 2. Only Available on K3VL 112 & 140
- 3. LV & PV options require an amplifier. See Section 3-9
- 4. LV2/PV2 available with 12VDC or 24VDC selenoid coils
- 5. K3VL80 and Larger
- 6. K3VL112 and Larger
- 7. K3VL200 Only

Additional Control Options

Blank	Without Additional Controls
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Either Torque Limit Control

/1-S##	Special Low Setting Range*
/1-L##	Low Setting Range
/1-M##	Medium Setting Range
/1-H##	High Setting Range

or Displacement Control

/1-E0	Electric Displacement Control (Pilot Pressure Required)
/1-Q0	Pilot Operated Displacement Control
/1-00	Cover Plate
E1	Electric flow regulator (Pilot pressure required) Molded AMP connector, 24V Soneloid
E2	Electric flow regulator (Pilot pressure required) Molded Deutsch connector, 24V Soneloid
E3	Electric flow regulator (Pilot pressure required) Molded Deutsch connector, 12V Soneloid

Solenoid Connector

A	Two Pin Deutsch DT 64-ZP Connector
B	DIN Connector - 150/DIN 43650 - Form A

Unloader Solenoid

Blank	For all other options except PN/PM/LN/LM
115A	115 V AC, 50, 60 Hz - DIN 43550 Plug
230A	230 V AC, 50, 60 Hz - DIN 43550 Plug
12D	12 V DC - DIN 43550 Plug
24D	24 V DC - DIN 43550 Plug

- see Torque Setting Table below
* Non Standard Options - Contact KPM

