

Part number:

HYDROMA
HYDRAULICKÉ SYSTÉMY

HIDROMA
SISTEMS
UKŁADY HYDRAULICZNE

HYDROMA
ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

Kawasaki
Powering your potential



HANSA-TMP Innovation & Technology in Hydraulic Systems

HANSA-TMP has been selected as official distributor by the major world players in the hydraulic field. Our market is expanding locally and globally thanks to the expertise acquired during the past decades; we are able to find the best fit for the most difficult applications. A team of engineers assists our customers during the set up phase, technical assistance, warranty and maintenance.

Kawasaki - Based in Plymouth, UK, the factory is a highly automated manufacturing facility that produces a wide range of products including axial piston pumps, axial and radial piston motors and valves.

ISO 9001 Quality Certification



ISO 14001 Environmental Certification



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K3VL

Medium pressure, swash plate, open loop axial piston pumps,
for both industrial and mobile applications



Features:

- High power density
- High performances
- High reliability
- High self priming capability
- Wide range of controls
- Spherical valve plate
- Standard ISO / SAE mounting and porting
- Through drive options
- Torque control available

Pump model	Displacement cm ³ /n	Rated pressure MPa	Peak pressure MPa	Rotation speed n/min.	
				Max. for self-priming	Max.
K3VL 28	28	32	35	3.000	3.400
K3VL 45	45	32	35	2.700	3.250
K3VL 60	60	25	28	2.400	3.000
K3VL 80	80	32	35	2.400	3.000
K3VL 112	112	32	35	2.200	2.700
K3VL 140	140	32	35	2.100	2.500
K3VL 200	200	35	40	1.900	2.200

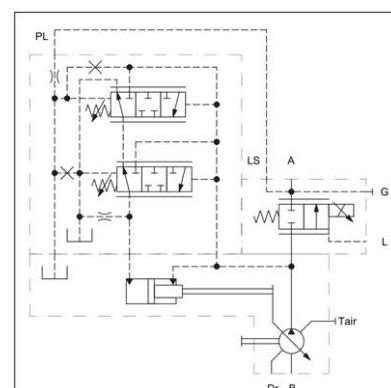
PMV

Proportional electro-hydraulic control for K3VL pump series



Features:

- Compact dimensions
- Flanged to the pump outlet
- Maximum flow limited by screw
- Flow control independent by the pump speed
- 12V DC and 24V DC solenoids available



The PMV valve is an electro-proportional flow control for K3VL pumps with LS control.

The valve is designed to be directly flanged to the K3VL45, 60 e 80 pumps with 1" SAE 3000 outlet ports.

The valve can be combined with the constant power control and the electro-proportional pressure control for a complete control of the system performances.

K3VL28 (Fan Drive)

Medium pressure, swash plate, open loop axial piston pumps,
for both industrial and mobile applications

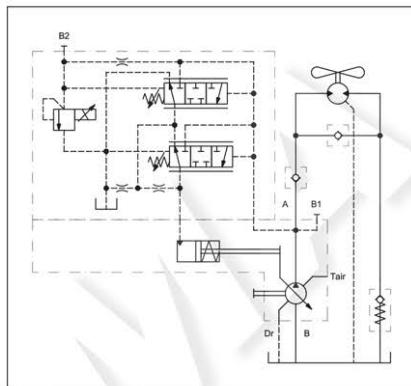


The K3VL pump 28 Fan Drive is variable displacement axial piston pump with a proportional electric controller which can be operated either by the Diesel engine control unit or by the machine control unit.

In this way the cooling air flow is optimized with the temperature of the combustion engine reducing the noise and increasing the efficiency of the system.

Features:

- Low noise level
- High rotation speed
- Compact design and reduced length
- Suitable for multiple pump assembly



K3VLS

Medium pressure, swash plate, open loop axial piston pumps,
for both industrial and mobile applications (medium duty)



Features:

- High overall efficiency
- Compact size
- Light weight
- Excellent reliability
- Wide range of controls
- High stability
- High responsive controls

Pump model	Displacement cm ³ /n	Rated pressure MPa	Peak pressure MPa	Rotation speed n/min.	
				Max. for self-priming	Max.
K3VLS 65	65	28	35	2.600	3.000
K3VLS 85	85			2.500	3.000
K3VLS 105	105			2.300	2.640



K3VLS with integrated auxiliary pump

The K3VLS pumps are also available in the version with integrated auxiliary gear pump with only one suction port.

K8V

High pressure, variable displacement closed loop circuit axial piston pumps,
for industrial applications



Features:

- Wide range of controls
- Global standard shaft and mount
- Optimised rotating group
- Additional valves
- Additional sensor options
- Variety of throughdrive options

Pump model	Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg (single pump)
K8V 90	90	40	45	3.050	81,5
K8V 125	130			2.850	

M7V

High pressure, variable displacement axial piston motors for open and closed loop circuit, for industrial applications



Features:

- Swash plate
- High speed operation
- Smooth starting characteristics
- Low speed operation
- Compact size
- Long bearing life

Motor model	Displacement max. / min. cm ³ /n	Theoretical output torque * at rated pressure Nm	Rated pressure MPa	Max. pressure MPa	Continuous speed * n/min.	Max. power * kW	Approx weight kg
M7V 85 **	85 / 65	541	40	45	3.900	221	-
M7V 112	112 / 85	713			3.550	265	45
M7V 160 **	160 / 120	1.019			3.100	331	-

* At maximum displacement

** Displacement 85 and 160 soon available

K3V

Medium pressure, swash plate, open loop axial piston pumps,
for industrial and mobile applications



Features:

- High pressure
- High performances
- High reliability
- Long life
- Low noise
- Wide range of control options

Pump model	Displacement cm ³ /n	Rated pressure MPa	Peak pressure MPa	Rotation speed n/min.	
				Max. for self-priming	Max.
K3V 63	63	34	39	2.650	3.250
K3V 112	112			2.360	2.700
K3V 140	140			2.150	2.500
K3V 280	280			1.600	2.000
K3V 63 DT	63+63			2.650	3.250
K3V 112 DT	112+112			2.360	2.700
K3V 140 DT	140+140			2.150	2.500
K3V 280 DT	280+280			1.600	2.000

K5V

Medium pressure, swash plate, open loop axial piston pumps,
for industrial and mobile applications



Features:

- Standard SAE flange and shaft
- High efficiency and high self priming capability
- Low noise
- Wide range of hydraulic and electric controls

Pump model	Displacement cm ³ /n	Rated pressure MPa	Peak pressure MPa	Rotation speed n/min.	
				Max. for self-priming	Max.
K5V 80	80	34	39	2.460	3.000
K5V 140	140			2.160	2.500
K5V 160	160			2.000	2.350
K5V 200	200			1.900	2.200
K5V 80 DT	80+80			2.460	3.000
K5V 140 DT	140+140			2.160	2.500
K5V 160 DT	160+160			2.000	2.350
K5V 200 DT	200+200			1.900	2.200

K7SP36

Medium pressure, swash plate, open loop axial piston double pumps,
for mini-excavators



Features:

- Compact design one suction double pump
- High reliability
- Low noise
- Optional third pump
- Constant power control

Pump model	Displacement cm ³ /n	Rated pressure MPa	Peak pressure MPa	Max. rotation speed for self-priming n/min.
K7SP36	36 + 36	30	32	2.300

K7VG

High pressure, swash plate, open loop axial piston pumps,
for industrial applications



Features:

- High power density
- High performances
- High reliability
- Long life
- Low noise and high efficiency
- Wide range of controls
- Enhanced bearing life
- SAE mounting and shaft

Pump model	Displacement cm ³ /n	Rated pressure MPa	Peak pressure MPa	Rotation speed n/min.	
				Max. for self-priming	Max.
K7VG 180	180	35	40	1.800	2.300
K7VG 265	270			1.600	1.900

K3VG

High pressure, swash plate, open loop axial piston pumps,
for industrial applications



Features:

- High pressure
- High performances
- High reliability
- Long life
- Modular design
- Low noise and high efficiency
- High self priming capability
- Wide range of controls

Pump model	Displacement cm ³ /n	Rated pressure MPa	Peak pressure MPa	Rotation speed n/min.	
				Max. for self-priming	Max.
K3VG 63	63	35	40	1.800	3.250
K3VG 112	112			1.800	2.700
K3VG 180	180			1.800	2.300
K3VG 280	280			1.500	2.000
K3VG 180 DT	180+180			1.800	2.300
K3VG 280 DT	280+280			1.500	2.000

K3VGDT

High pressure, swash plate, open loop axial piston pumps,
for industrial applications



Features:

- High pressure
- High performances
- High reliability
- Long life
- Modular design
- Low noise and high efficiency
- High self priming capability
- Wide range of controls
- Compact design double pump

Pump model	Displacement cm ³ /n	Rated pressure MPa	Peak pressure MPa	Rotation speed n/min.	
				Max. for self-priming	Max.
K3VG 180 DT	180+180	35	40	1.800	2.300
K3VG 280 DT	280+280			1.500	2.000

HMB

Fixed displacement radial piston motors for industrial applications



Features:

- High performance
- High reliability
- Good cavitation tolerance
- Large variety of porting options
- Speed and positioning control options
- High starting and running torque
- Wide range of displacements available

Motor model	Displacement cm ³ /n	Rated pressure MPa	Intermittent pressure MPa	Continuous speed n/min.	Continuous power kW	Approx weight kg
HMB 010	188	20,7	24	500	25	40
HMB 030	442	20,7	29	450	42	73
HMB 045	740	25	29	400	60	120
HMB 060	983	25	29	300	80	144
HMB 080	1.344	25	29	300	100	144
HMB 100	1.639	25	29	250	110	144
HMB 125	2.050	25	29	220	100	217
HMB 150	2.470	25	29	220	115	265
HMB 200	3.080	25	29	175	130	265
HMB 270	4.310	25	29	125	140	420
HMB 325	5.310	25	29	100	140	429
HMB 400 (4")	6.800	25	29	120	190	481
HMB 400 (4-1/2")						510

HMC

Dual displacement radial piston motors for industrial applications



Features:

- Dual displacement
- Constant horsepower control option
- High starting and running torque
- High mechanical efficiency
- Smooth, steady, low speed operation
- High performances
- Good cavitation tolerance
- Large variety of porting options
- Speed and positioning control options
- Wide range of displacements available

Motor model	Displacement min. / max. * cm ³ /n	Rated pressure MPa	Intermittent pressure MPa	Continuous speed n/min.	Continuous power *** kW	Approx weight kg
HMC 030	49 - 492	20,7	24,1	1.000 - 450	60	100
HMC 045	81 - 737	25	27,5	1.000 - 450	99	150
HMC 080	82 - 1.475	25	27,5	1.000 - 300	138	172
HMC 125	82 - 2.048	25	27,5	1.000 - 190	135	235
HMC 200	80 - 3.080	25	27,5	1.000 - 175	174	282
HMC 270	160 - 4.588	25	27,5	1.000 - 120	189	450
HMC 325	492 - 5.326	25	27,5	350 - 100	189	460

* Intermediate displacement available

** At min. / max. displacement

*** At max. displacement

HPC

High power, dual displacement radial piston motors for industrial applications



Features:

- Dual displacement
- Constant horsepower control option
- High starting and running torque
- High mechanical efficiency
- Smooth, steady, low speed operation
- High performances
- Good cavitation tolerance
- Large variety of porting options
- Speed and positioning control options
- Wide range of displacements available
- Enhanced power performance

Motor model	Displacement min. / max. * cm ³ /n	Rated pressure MPa	Intermittent pressure MPa	Continuous speed ** n/min.	Continuous power *** kW	Approx weight kg
HPC 080	164 - 1.600	25	27,5	1.000 - 270	165	172
HPC 125	164 - 2.048	25	27,5	1.000 - 190	202	235
HPC 200	164 - 3.087	25	27,5	1.000 - 175	261	282
HPC 270	328 - 4.588	25	27,5	1.000 - 120	278	450
HPC 325	492 - 5.326	25	27,5	350 - 100	278	460

* Intermediate displacement available

** At min. / max. displacement

*** At max. displacement, 25 MPa, with flushing

HPC400

High power, 4-speed, radial piston motors for industrial applications



Features:

- Total displacement 6.554 cm³/n
- Max. continuous power of 430 kW
- Smooth operation at low speed
- Dynamic displacement change
- Rated torque of 25.000 Nm
- Freewheel option available
- Rugged Staffa design
- High starting torque
- 25 MPa continuous rating

Motor model	Displacement front max. / min. cm ³ /n	Displacement rear max. / min. cm ³ /n	Rated pressure MPa	Max. pressure MPa	Continuos speed (max. disp.) n/min	Continuos speed (min. disp.) n/min	Max. power kW	Approx weight kg
HPC 400	3.277 - 0	3.277 - 0	25	27	220	1.500	430	590

M3X

Fixed displacement axial piston motors for industrial applications



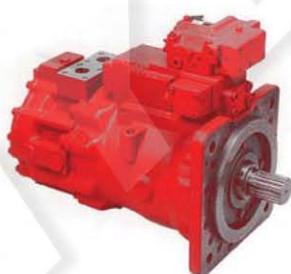
Features:

- Compact design
- High performance
- High reliability
- Male or female shaft options
- Built in parking brake option
- Advanced low speed characteristics
- Smooth starting characteristics
- High speed operation
- Wide capacity range

Motor model	Displacement cm ³ /n	Rated pressure MPa	Max. pressure MPa	Continuous speed n/min.	Max. power kW	Approx weight kg
M3X 200	195	30	35	1.900	180	42
M3X 280	280	30	35	1.700	230	63
M3X 530	533	30	35	1.400	370	90
M3X 800	800	30	35	1.200	470	133

M3B

Dual displacement axial piston motors for industrial applications



Features:

- Compact design
- High performances
- High reliability
- Advanced low-speed characteristics
- Smooth starting characteristics
- High speed operation
- Electric displacement control
- Variable displacement

Motor model	Displacement max. / min. cm ³ /n	Rated pressure MPa	Max. pressure MPa	Continuous speed * n/min.	Max. power ** kW	Approx weight kg
M3B 200	195 - 106	32	35	1.900 - 2.930	200	72
M3B 280	280 - 93	30	35	1.700 - 2.200	240	93
M3B 530	533 - 178	30	35	1.400 - 1.700	370	147
M3B 800	800 - 267	30	35	1.200 - 1.500	470	235

* At max. / min. displacement

** At max. displacement

M2X - M5X

Fixed displacement axial piston motors for industrial applications



Features:

- Moor for excavator swing operation
- Integrated valves
- Direct connecting to reduction gear
- High performance and reliability
- Built in shockless relief valves
- Built in parking brake
- Optional time delay valve
- Optional anti-reaction valve

Motor model	Displacement cm ³ /n	Rated pressure MPa	Max. pressure MPa	Continuous speed n/min.	Rated torque Nm	Approx weight kg
M2X 22	22	21	24,5	2.500	72,1	14
M2X 45	45	21	24,5	2.000	149	24
M2X 63	64	30	34,5	2.200	300	26
M2X 150	148,5	30	34,5	1.600	696	63
M2X 170	169,4	30	34,5	1.500	794	63
M2X 210	210	30	34,5	1.400	984	71
M5X 130	129	33	40	1.850	665	50
M5X 180	180	33	40	1.680	928	60

K3X

Fixed displacement axial piston motors for industrial applications



Features:

- Spherical valve plate
- Simple construction
- High efficiency
- Low noise
- High reliability
- High performance
- High speed capability
- Heavy duty versions available

Motor model	Displacement cm ³ /n	Rated pressure MPa	Max. pressure MPa	Continuous speed n/min.	Max. power kW	Approx weight kg
K3X 63	63	32	35	3.000	80	23
K3X 80	82				129	40
K3X 90	89				140	40
K3X 112	111				174	40

KLSV

Multiple control valves for load-sensing circuits



Features:

- Post-compensated, flow-sharing design
- Hydraulic pilot and electro-hydraulic actuation
- Special versions for wheel loaders, midi excavators and skid steer loaders
- Three sizes with sectional flow rates of 180, 250 and 400 l/min.

PV48

Remote control pilot valves



Features:

- High responsive, low hysteresis
- Inlet flow max. 20 lt / min.
- Inlet pressure max. 7 MPa
- Control pressure range 0 - 3 MPa

RCV8C

Remote control pilot valves



Features:

- High responsive, low hysteresis
- Inlet flow max. 10 lt / min.
- Inlet pressure max. 9,6 MPa
- Control pressure range 0 - 4,4 MPa
- Available in a 1 or 2 section mono-block

Applications

Mobile



Excavator

K3V Axial Piston Pump



M2X Swash Plate Axial Piston Motor

Concrete Pump

K3VL Axial Piston Pump



Truck Crane

M7V Axial Piston Motor



K3VL Axial Piston Pump



Dumper

K3VL Axial Piston Pump



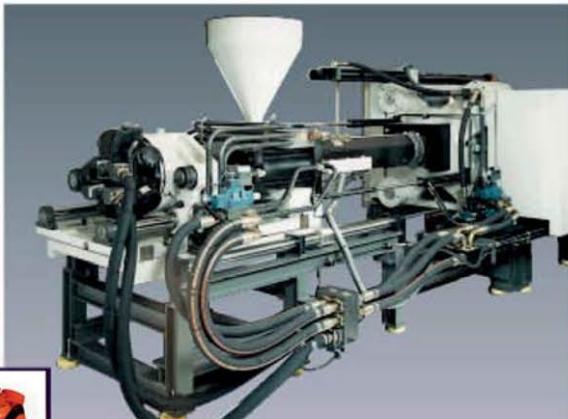
Applications

Industrial

Injection Moulding Machine

HMB Radial Piston Motor

K3VL Axial Piston Pump



Injection Moulding Machine

M3X Axial Piston Motor

K3VL Axial Piston Pump with proportional electro-hydraulic control



Ceramic Floor Tile Press

K3VL - K3VG Axial Piston Pumps



Leather Press

K3VL Axial Piston Pump

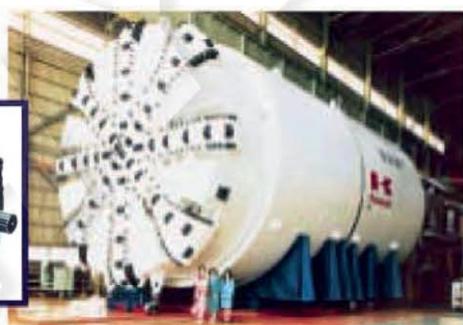
Applications

Industrial

Shredders and Crushing Machine

K3VDTH Axial Piston Pump

HMB Radial Piston Motor



Giant Tunnel boring machine

K3VL Axial Piston Pump

M3X Axial Piston Motor (Multiple)



Scrap processing press-shearing machine

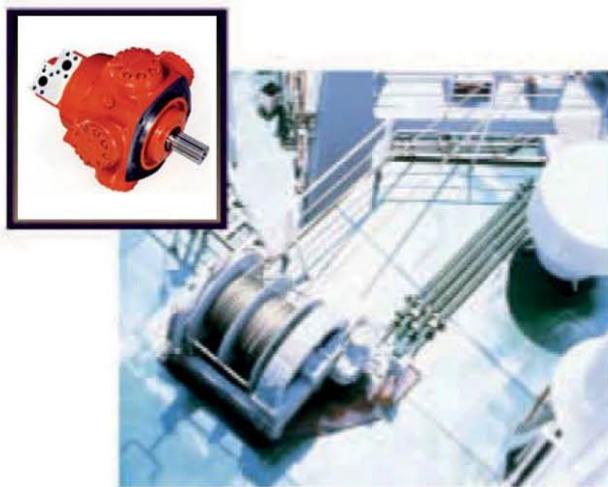
K3VL Axial Piston Pump

Applications

Marine

Mooring Winch

HMB - HMC Radial Piston Motors



Winch

HMB - HMC Radial Piston Motors



Derrick Crane

K3VL - K3VG Axial Piston Pumps
HMB - HMC Radial Piston Motors



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