APTECH HYDRAULICS

"TRUSTED FOR GENUINE HYDRAULIC SOLUTIONS"

HYDRAULIC PUMP | HYDRAULIC MOTOR | HYDRAULIC VALVE



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Aptech Hydraulics is Leading Dealer, Distributor, Exporter & Repair Service Provider of Industrial & Mobile Hydraulic Equipment

Products We Offer

- Inline Piston Pumps
- Radial Piston Pumps & Motors
- Bent Axis Piston Pumps & Motors
- Fixed Volume Vane Pumps
- Variale Volume Vane Pumps
- Gear Pumps
- JCB Crane Pump
- Steering Pump
- Vane Motors
- Axial Piston Motors
- High Speed Motors
- Servo Motors
- Orital Motors
- Directional Valves
- Flow Control Valves
- Pressure Control Valves
- Relief Valves
- Chec Valves
- Stac Valves
- Servo Valves
- Proportional Valves

Locations : India, UAE, Nepal, Bangladesh, Sri Lanka, Bhutan

Industries We Serve

Construction & Earthmoving

Injection Moulding

Aerospace & Aviation

Agriculture

Mining

Steel Plant

Oil & Gas

Railways

Cement Plant

Ship & Marine

Automotive & Transportation

Sugar Plant

and many more...

Our Associated Partners

At ***Aptech Hydraulics,*** we proudly collaborate with globally renowned hydraulic brands to deliver top-quality solutions to our clients. Our associated partners include industry leaders such as Caterpillar, Bosch Rexroth, Danfoss, Eaton, Parker, Hydac, Hawe, Kawasaki, Yuken, and many more.

We deal in genuine products, and also provide expert repair, servicing, and maintenance for a wide range of hydraulic systems including pumps, valves, motors, and cylinders.

Aptech Hydraulics also extends its services internationally—we export to countries like Nepal, Bhutan, Bangladesh, Sri Lanka, and the UAE, ensuring reliable hydraulic technology and support across borders.

Butcher Hydraulics
Founded: 1946 Country: USA
Profile: Specializes in hydraulic repair services and parts distribution, particularly for mobile and industrial applications.

Caterpillar Inc.
Founded: 1925 Country: USA
Profile: A global leader in construction and mining equipment, Caterpillar also manufactures hydraulic systems for heavy-duty machinery.

Danfoss
Founded: 1933 Country: DENMARK
Profile: Offers hydraulic, electric, and electronic components for mobile and industrial equipment through its Danfoss Power Solutions division.

Denison Hydraulics
Founded: 1900s (now part of Parker Hannifin)
Country: USA
Profile: Known for piston pumps, Denison Hydraulics is a trusted name in industrial and mobile hydraulic solutions.

Eaton
Founded: 1911 Country: USA
Profile: A diversified power management company offering reliable hydraulic components like pumps, valves, and motors.

Hawe Hydraulik
Founded: 1949 Country: GERMANY
Profile: German engineering leader specializing in compact, energy-efficient hydraulic components and systems.

Hydac
Founded: 1963 Country: GERMANY
Profile: Known for filtration systems, accumulators and hydraulic accessories for heavy machinery and automation systems.

Intermot
Founded: 1986 Country: ITALY
Profile: Designs and manufactures high-performance radial piston motors for industrial and mobile applications.

Kawasaki Precision Machinery
Founded: 1896 (Kawasaki Group),
Hydraulic division in 1968
Country: JAPAN
Profile: Offers advanced hydraulic pumps, motors, and valves for industrial and mobile machinery.

Liebherr
Founded: 1949 Country: GERMANY
Profile: A global leader in construction and mining equipment, Caterpillar also manufactures hydraulic systems for heavy-duty machinery.

Our Associated Partners

Linde Hydraulics
Founded: 1904 (as part of Linde Group),
Hydraulic division now independent
Country: GERMANY
Profile: Renowned for hydrostatic drives and pressure-controlled axial piston pumps and motors.

Oilgear
Founded: 1921 Country: USA
Profile: Produces robust and reliable hydraulic pumps, valves, and systems for extreme-duty applications.

Parker Hannifin
Founded: 1917 Country: USA
Profile: A global leader in motion and control technologies, including a wide range of hydraulic systems.

Plasser & Theurer
Founded: 1953 Country: Austria
Profile: Specializes in track maintenance machinery, integrating advanced hydraulics in railway equipment.

Putzmeister
Founded: 1958 Country: GERMANY
Profile: Known for concrete pumps and industrial pumping equipment, utilizing powerful hydraulic systems.

Bosch Rexroth
Founded: 2001 (merger of Bosch Automation and Rexroth)
Country: GERMANY
Profile: One of the most respected names in drive and control technology, offering cutting-edge hydraulic solutions.

Vickers (by Eaton)
Founded: Early 1900s (now part of Eaton)
Country: USA
Profile: Known for hydraulic pumps and valves, Vickers remains a trusted name in fluid power systems.

Yuken
Founded: 1929 Country: JAPAN
Profile: Offers a comprehensive range of hydraulic valves, pumps, and systems for industrial machinery.

Our Associated Partners

HYDRAULIC PUMPS

OPEN CIRCUIT AXIAL PISTON PUMPS

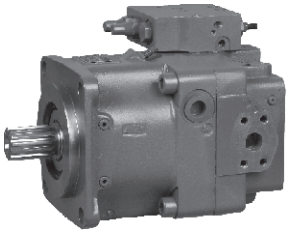
A2F
Fixed-displacement pump/motor A2F

Size: 10, 12, 23, 28, 45, 55, 63, 80, 107,125, 160, 200, 250, 355, 500

Note:
Fixed displacement pump/motor A2F is an axial piston of bent axis design, suitable for use in both open and closed circuit hydrostatic drives, Output flow is proportional to the flow of fluid through the pump. Output speed is proportional to the flow of fluid through the motor and inversely proportional to motor displacement. Output torque increase with the pressure drop across the motor between the high and low pressure sides.

Particular Characteristics:
With high performance spheric valve plate rotary group.
Automatic centering
High Efficiency
Long Life
Low Noise

A11VO/A11VLO
Variable displacement pump with axial piston drive



Displacement: 40~260 ml/r

Note:
Variable displacement pump with axial piston drive swash plate design for hydrostatic drives in open circuit

Features:
Variable displacement pump with axial piston drive swash plate design for hydrostatic drives in open circuits, Designed primarily for use in mobile applications, Pump operation either self-priming, with tank charging or charging pump, A comprehensive range of variable units is available for different control functions, Power can be adjusted from the outside, even when the machine is running The through drive is suitable for attachment of gear pumps and axial piston pumps up to the same size, i.e. 100% through drive, The volume flow is adjustable in proportion to the drive speed.

...in service for more than four decades!

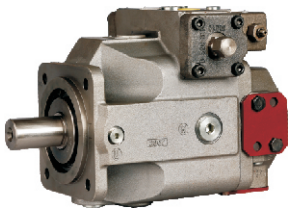
A2FO
Fixed-displacement bent axis piston pump

Size: 10,12,16,23,28,32,45,56 63,80,90,107,125,160,180, 200

Note:
Axial piston pump, bent axis type, fixed displacement suitable for open circuits.

Features:
Fixed displacement pump A2FO of axial piston, bent axis design is made suitable for hydrostatic drives in open circuits, suitable for use in mobile or industrial application, output flow is proportional to drive speed and displacement, the drive shaft bearings are designed to give the service life expect in these areas of operation, careful selection fo the displacements offered, permit sizes to be matched to practically every application

A4VSO
Variable displacement pump A4VSO



Size: 40, 71, 125, 180, 250, 300, 355

Note:
Pump A4VSO of swash plate design is design for hydrostatic transmission in an open circuit. Flow is proportional to input speed & displacement, and is infinitely variable by adjustment of the swash plate.

Feature:
Slot-control swash plate design, continuous variable displacement, good suction characteristics, permissible continues operating pressure 350bar, low noise level, long service life, the drive shaft capable of absorbing the axial and radial loads, high power/weight ratio, modular design, the pump combinations possible, pump position optional, mounting position optional, operation on HFC Fluids under reduced operational parameter possible in preparation.

A10V(S)O
Variable displacement Axial Piston Pump

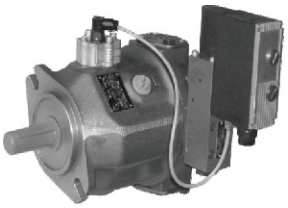
Size: 10,18,28,45,71,100,140

Note:
Axial piston pump, swash plate design for hydrostatic open circuit system used in varied medium duty application in industrial & mobile machines.

Features:
Flow is proportional to drive speed and displacement it can be infinitely varied by adjustment of the swash plate ISO mounting flange, flange connection to SAE metric, 2 case drain port, good suction characteristics, permissible continuous pressure 280 bar, low noise level, long service life, axial and radial loading of drive shaft possible, high power-weight ratio, wide range of controls, short response times, through drive option for multi-circuit system

OPEN CIRCUIT AXIAL PISTON PUMPS

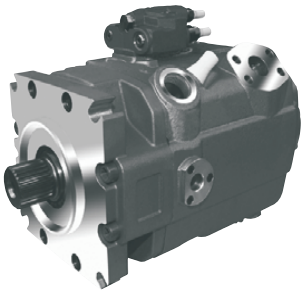
A10VSODFE/DFEE
Control type SYDFE/SYDFEE



Size: 28, 45, 71, 100, 140

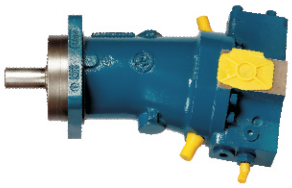
Note:
Axial piston pump, swash plate design for hydrostatic open circuit system used in varied medium duty application in industrial & mobile machines.
Features:
Flow is proportional to drive speed and displacement it can be infinitely varied by adjustment of the swash-plate ISO mounting flange, flange connection to SAE metric, 2 case drain port, good suction characteristics, permissible continuous pressure 280 bar, low noise level, long service life, axial and radial loading of drive shaft possible, high power-weight ratio, wide range of controls, short response times, through drive option for multi-circuit system

A15VSO
Variable Axial Piston Pump



Open circuit
Sizes 110 to 280
Nominal pressure: 350 bar
Maximum pressure: 420 bar
Features:
Variable axial piston pump of swash plate design for hydrostatic drives in open circuit.
The flow is proportional to the drive speed and displacement.
Compact design
High efficiency
High power density
Low noise level

A7V
Variable displacement pump A7V



Size: 20, 28, 40, 55, 58, 80, 78, 107, 117, 160, 250, 355, 500

Note:
Variable displacement pump, axial piston bent axis design, for hydrostatic transmissions in open circuits. The flow is proportional to the drive speed and the displacement and steplessly variable at constant drive speed. Comprehensive program of control devices for every control and regulating function, Operation on both mineral and fire-resistant fluids
Features:
High performance rotary group, the drive shaft capable of absorbing the radial loads, long life, low noise.

A8V
Variable double pump A8V

Size:
28, 55, 58, 80, 107, 125, 160

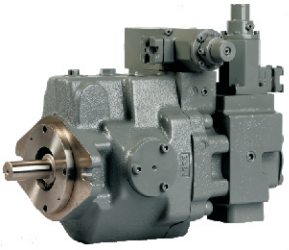
Note:
Two variable pumps in a common housing, the splitter box, an SAE flange for direct mounting on to the prime mover and the control device usually summation HP control.
Flow is proportional to speed by change the swivel angle.
Features:
The various design options with auxiliary drive and the possibility of multi-circuit control allow optimum matching to individual drive applications. High pressure long service life.

A2VK
Variable Pump

Size: 12, 28, 55, 107

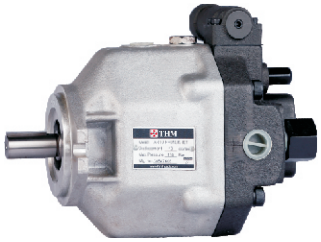
Series 1 and 4, for open circuits
Nominal pressure upto 250 bar
Features:
High metering accuracy and repeatability of the variable flows.
Manual control via handwheel with built-in-precision measuring scale or alternatively mechanical rod control, for mounting pneumatic or hydraulic control cylinders (remote control)
Operating pressure up to 250 bar
Low suction pressure, even when pumping highly viscous fluids
Very little pulsation of flow

"A" Series
Variable displacement piston pump



High volumetric efficiency upto 98% and overall efficiency is more than 90%. Low noise level. the "A" Series variable displacement pump accomplish high energy saving characteristics, widely used in plastic injection machinery, machine tools and medium duty industrial application covering a broad segment of the industry requirement. Two kinds of control type, which are pressure compensator type("01"type) and proportional electro-hydraulic load sensing type("04"type).

AR SERIES
Axial Piston Pump



Sizes : 10, 16, 22 cc/rev

Nominal pressure: 165 bar
Max. Pressure: 210 bar
Features:
Small and light design, space saving.
Special alloy material, power saving, low noise, long life.
Easy to assemble, clean appearance and light weight. Application for CNC lathe machine, bending machine, punch hydraulic press, high efficiency machine.

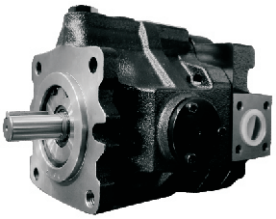
HY SERIES
Variable displacement
axial piston pump

Displacement: 10~320 ml/r
Max. pressure up to 400 bar
Features:
The HY14-1B Hydraulic Pump is of axial piston type with hydrostatic film lubrication of bearing. It makes a feature of compact size ,light weight, high efficiency, longer life, simple construction and easy maintenance. This Hydraulic Pump nominal displacement up to (10, 25, 63, 160, 250) ml/r and carries its rating pressure up to 315Bar and a maximum pressure up to 400Bar, and can run with a speed upto 1500rpm.

OPEN CIRCUIT AXIAL PISTON PUMPS

MV Series

Bi-directional Axial Piston Pump For Servo Applications



Sizes: 8, 10, 12, 15, 18, 23, 25, 38, 42, 50, 70
Operating pressure 175 Bar
Max. Pressure 250 bar

Features:
MV Series pump, new design for changeable angle of swash plate, wide applications.
Special design, low noise level during full pressure time.
Modular control, easy to design system, advantages are: power saving, small size, low cost.
Low power consuming, low oil temperature rising, suitable applications for assembling small power units

CY SERIES

Fixed-displacement pump/motor

Size 1.5.....400

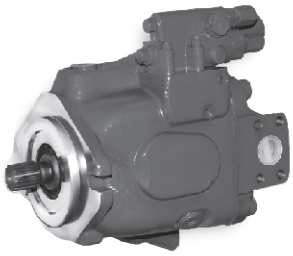
Series 14-1B
Nominal pressure up to 350 bar

Features:
CY 14 type axial piston pump is to use the oil pan with oil, piston cylinder axis of rotation between the shoe and the variable because the head, using a hydrostatic equilibrium structures with oil pan and cylinder block , as compared with other types of pumps, it has a simple structure, small size, high efficiency, long life, light weight, strong self-priming capacity. It is suitable for machine tools, forging, metallurgy, engineering, mining and other machinery, and other hydraulic transmission system. The pump just want to change the motor oil pan can also be made using a hydraulic motor.

TP Series

Bi-Directional Axial Piston Pump

Flow: 30, 50, 90, 110, 140, 170, 200, 250, 320, 480;
Max. Pressure: 320 bar



PV

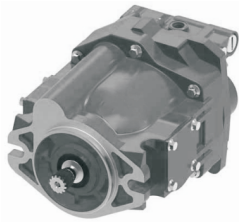
Axial Piston pump

Size: 16.....270
Nominal pressure upto 350 bar

Features:
New type of swash plate and large servo piston with strong bias spring achieves fast response, reduce the noise due to active decompression of system at down stroke.
Wide application in automobile industrial, ships, forging machines, tire machines, injection moulding machines, machine tools, special purpose machine. Nine pistons and new pre-compression technology (pre-compression filter volume) result in unbeaten low outlet flow pulsation. Rigid and FEM - optimized body design for lowest noise level.

PVB

Axial piston pump



Sizes: 5, 6, 10, 15
Max Pressure: 210Bar
Max Flow: 391.6 l/min

Introduction
Variable displacement axial-piston pumps in swashplate design are used for hydraulic actuators combined of pump and motor, operating in closed circuit systems. They are used for driving mobile machines like harvesters or rotating technological equipment like transit mixer drums etc.

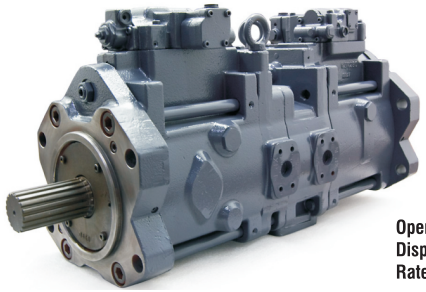
K-AP

Bent Axis Piston Pump

Sizes: 22 to 125 cc/rev
Max. pressure up to 350 bar
Maximum Speed: 4300 r/min
Minimum Speed: 1750 r/min

K3V Series

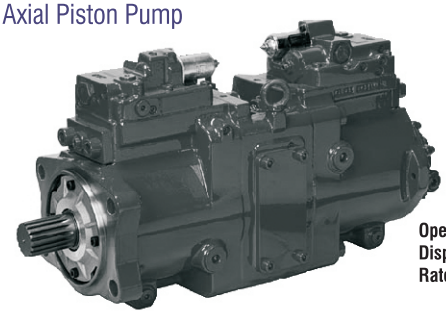
Axial Piston Pump



Open circuit
Displacement: 65~280 cm³/rev
Rated Pressure: 340 Bar

K7V Series

Axial Piston Pump

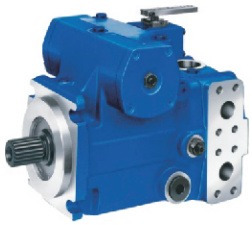


Open circuit
Displacement: 65~140 cm³/rev
Rated Pressure: 350 Bar

HYDRAULIC PUMPS

CLOSED CIRCUIT AXIAL PISTON PUMPS

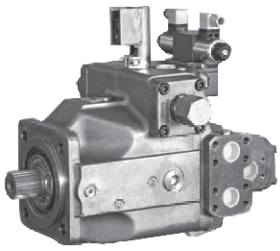
A4VTG
Variable Displacement Axial Piston Pump



Size: 71,90

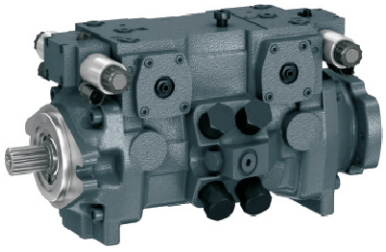
Note:
Axial piston pump, swash plate design for hydrostatic close loop circuit system used in varied medium duty application in industrial & mobile machines.
Features:
flow is proportional to drive speed and displacement it can be infinitely varied by adjustment of the swash plate ISO mounting flange, flange connection to SAE metric, 2 case drain port, good suction characteristics, permissible continuous pressure 280 bar, low noise level, long service life, axial and radial loading of drive shaft possible, high power-weight ratio, wide range of controls, short response times, through drive option for multi-circuit system.

A4VSG
Variable displacement axial piston pump



Displacement: 40~750 ml/r
Nominal pressure up to 400 bar
Max. pressure up to 450 bar
Features:
Axial piston variable displacement pump of swash plate construction for hydrostatic pressure in closed circuit transmission. The flow is proportional to the drive speed and displacement and can be adjusted steplessly. Output flow increases from zero to maximum with swash plate swing angle. When the swash plate passes through the neutral position, the hydraulic oil flow direction will change smoothly. A variety of highly compatible control devices, providing various control and adjustment functions.Each high pressure side is equipped with two relief valves to prevent hydrostatic transmission(pump and motor) overload.

A22VG
Axial Piston Variable Double Pump



For Closed Circuit
Size: 45cc/rev
Nominal Pressure: 380 bar
Maximum pressure: 420 bar

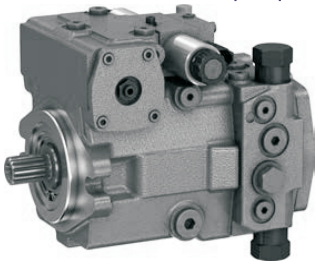
A4VG
Variable displacement axial piston pump

Displacement: 40~125 ml/r
Flow: 160~356 l/min
Max. pressure up to 450 bar
Features:
Axial piston variable displacement pump of swash plate construction for hydrostatic pressure in closed circuit transmission. The flow is proportional to the drive speed and displacement and can be adjusted steplessly. Output flow increases from zero to maximum with swash plate swing angle. When the swash plate passes through the neutral position, the hydraulic oil flow direction will change smoothly. A variety of highly compatible control devices, providing various control and adjustment functions.Each high pressure side is equipped with two relief valves to prevent hydrostatic transmission(pump and motor) overload.

PVH & PVH2 SERIES
Variable Displacement
Axial piston pump, Swashplate Design

Displacement:
PVH: 33 to 110 cc/rev.
PVH2: 75 to 112 cc/rev.
Rated pressure: 420 bar
Features:
Variable displacement axial-piston pump for hydraulic systems with closed circuit. They are used in hydrostatic transmission of stroke drive or operating equipment of combines, road and construction mobile machines.
Applications:
Combines
Concrete mixer trucks
Road rollers

A10VG
Axial Piston Variable pump



Medium pressure pump for closed-circuit applications
Size 18 … 63
Nominal pressure 300 bar
Maximum pressure 350 bar
Closed circuit

HYDRAULIC PUMPS

AXIAL PISTON MOTORS

A2FM
Fixed displacement Bent Axis Piston Motor

Size: 16…180
Nom. Pressure: 400 bar
Features:
Fixed displacement motor A2FM of axial piston, bent axis design suitable for hydrostatic drives in open and closed circuits, use in mobile and industrial applications, output speed is proportional to input flow and inversely proportional to displacement, drive torque increases with the pressure drop across the unit, careful selection of the displacement offered, permit sizes to be matched to practically every application, favorable power/weight ratio compact design optimum efficiency, economical conception, one piece piston with piston rings.

A2FE
Fixed-displacement plug-in motor A2FE

Size: 55, 80, 107, 125, 160

Note:
It is mainly installed in the mechanical gearboix. e.g. track drive gearbox.
Features:
The design of the motor with the mounting flange in the center of the housing allows it to be almost fully integrated into a mechanical gearbox to give an extremely compact unit. You can just plug the motor into the gearbox without considering the tolerance.

BVD
Counterbalance valve

Size NG20, 25
Nominal pressure 350 bar
Peak pressure 420 bar
for travel drives, winch drives and track drives

A6V
Variable displacement motor A6V

Size:
28, 55, 80, 107, 160, 225, 500

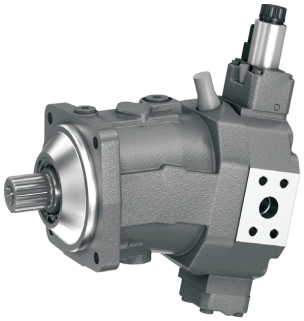
Note:
Variable displacement motor A6V is design for hydrostatic drive. The displacement of infinitely variable in the range Vmax/Vmin = 3.47
Special Features:
Wide control range for hydrostatic drives. Various control regulating devices. Cost saving through elimination of gearbox and possibility of using smaller pumps. Compact, low unit power. Good starting characteristics. Low inertia.

A6VE
Variable displacement plug-in motor A6VE

Size: 55, 80, 107, 160

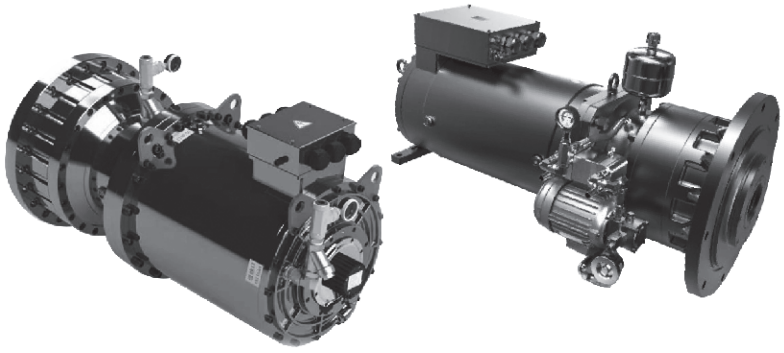
Note:
It is mainly installed in the mechanical gearbox. e.g. track drive gearbox.
Features:
The design of the motor with the mounting flange in the centre of the housing allows it to be almost fully integrated into a mechanical gearbox to give an extremely compact unit. You can just plug the motor into the gearbox without considering the tolerance.

A6VM
Variable Axial Piston Motor



Sizes: 107, 160
Flow: 380, 496 L/min
Max. pressure: 400 Bar
Features:
Wide control range with hydrostatic transmissions
Wide selection of control devices
Small swing torque
High power density
Good starting characteristics
Cost savings through elimination of gear shifts and possibility of using smaller pumps
Compact, robust motor with long service life
For use in mobile applications.

TDDG250, 300 & 350 Series
Servo Motor with Gear Box for plastic machines



Max. Torque:
TDDG250: 1402 to 4586 Nm
TDDG300: 5821 to 13230 Nm (193 rpm)
TDDG300: 4057 to 16317 Nm (113 rpm)
TDDG350: 14611 to 22650 Nm
Power: 25 to 393 kW
Features:
- High Torque
- Long Life
- High Efficiency
- Saving Energy
- Small Volume and light weight
- Patented Oil cooling system, will not increase Motor temperature
- IP65 Protection
- Smooth housing surface, easy to clean

ORBITAL MOTORS

BMM (OMM)

Displacement(cc/rev): 8, 12.5, 20, 32, 40, 50
Maximum pressure drop continuous: 100 bar
Maximum flow continuous: 20 l/min
Maximum Torque continous up to 46 Nm

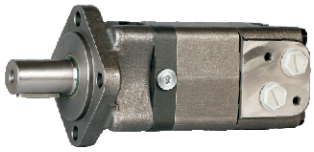
BMP (OMP)

Displacement : 50, 80, 100, 125, 160, 200, 250, 315, 400
Maximum Pressure drop continuos 125 bar
Maximum flow continuous 60 lpm
Maximum Torque continuous upto 334Nm

BMR (OMR)

Displacement(cc/rev): 36, 50, 80, 100, 125, 160, 200, 250, 315, 375
Maximum pressure drop continuous: 175 bar
Maximum flow continuous: 20 l/min
Maximum Torque continous up to 46 Nm

BMSY(OMS/BM3Y)

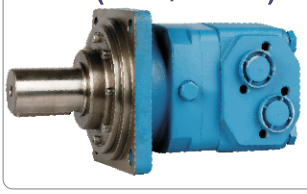


Displacement : 80, 100, 125, 160, 200, 250, 315, 400
Maximum Pressure drop continuos 225 bar maximum flow continuous 75 lpm
Maximum Torque continuous up to 560Nm

BMT (OMT/BM4U)

Displacement : 160, 200, 250, 320, 400, 500
Pressure Drop continuos 200 bar
Flow continuos 100 lpm
Max. Torque continuos upto 1121 Nm

BMV (OMV/BM5U)



Displacement: 315, 400, 500, 630, 800, 985
Maximum pressure drop continuos 200 bar
Maximum flow up to 150 lpm
Maximum torque continuos 1900 Nm

BMH (OMH)

Displacement(cc/rev): 200, 250, 315, 400, 500
Maximum pressure drop continuous: 175 bar
Maximum flow continuous: 75 l/min
Maximum Torque continous up to 850 Nm

BMK2/BMK6

Eaton 2000 and 6000 series motor

BMK2
Displacement(cc/rev): 65, 80, 100, 125, 160, 200, 250, 315, 400, 475
Maximum pressure drop continuous: 210 bar
Maximum flow continuous: 75 l/min
Maximum Torque continous up to 845 Nm

BMK6
Displacement(cc/rev): 200, 250, 315, 400, 500 630, 800, 1000
Maximum pressure drop continuous: 200 bar
Maximum flow continuous: 150 l/min
Maximum Torque continous up to 1675 Nm

BMR-BK01

Hydraulic motor with brake

Displacement(cc/rev): 50, 80, 100, 125, 160, 200 250, 315, 375
Maximum pressure drop continuous: 140 bar
Maximum flow continuous up to 65 l/min
Maximum Torque continous up to 465 Nm

NEW!

BMRYB

Dual Shaft Hydraulic Orbital Motor
Sizes: 80-400 cc/rev
Max. flow up to 75 l/min
Max. pressure up to 225 bar
Max. Torque up to 680 Nm
Max. output power up to 25 kW

APTECH
HYDRAULICS
QUALITY
ASSURED

DIRECTIONAL VALVES

HD-WE

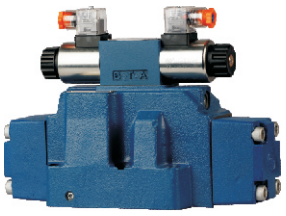
Directional control valve, electrically operated, Type HD-WE

Directional solenoid actuated directional spool valve high performance version
Wet pin DC or AC solenoids with removable coil (it is necessary to open the pressure tight chamber when changing the coil)
Solenoid coil can be rotated through 90 degree
Hand override, optional
Electrical connection as individual connection
Mounting type sub-plate

Size	5	6	10
Type		HD-WE	
Max operating pressure bar	250	350	315
Flow L/min Max	14		120

HD-(H)-WEH/WH

Pilot operated directional valve, Type HD(H)-WEH/WH



Electro-hydraulic operation
Spring or pressure-centered
Stroke adjustment at main spool, optional
Pre-load valve in the P-channel of the main valve, optional Wet-pin DC or AC solenoids, optional
Electrical connections as individual connection
Manual override, optional
Shifting time adjustment, optional
Mounting type sub plate mounting

Size	10	16	25	32
Type	HD-(H)-WEH/WE			
Max operating pressure bar	28/350	28/350	28/350	28/350
Max. Flow L/min	160	300	650	1100

HD-WMU/R

Roller operated directional valve Type HD-WMU/R

Directed operated directional spool valve with adjustable roller operation
Roller lever assembly may be stepped in 90 degree increments

Size	6	10
Type	HD-WMUR	
Max operating pressure bar	315	315
Flow L/min Max	60	120

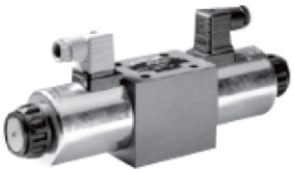
Z4WE6...3XT

4/2 way isolator valve
Size 6
Up to 315 bar
Up to 40 L/min

Features :
Solenoid operated directional spool valve is the standard version.
Porting pattern to DIN 24 340 form A, ISO 4401 and CETOP–RP 121 H,
Free-flow through ports P and T in all switched positions.
Sandwich plate valve
Wet pin AC or DC solenoids
Hand override, (optional)

HD-WE4.....20/

Directional control, electrically operated type HD-WE4....20/



Direct solenoid actuated directional spool valve high performance version
Wet pin DC or AC solenoids with removable coil (it is not necessary to open the pressure tight chamber when changing the coil)
Solenoid coil can be rotated through 90 degree
Hand override, optional
Electrical connections as individual connection
Mounting type: Sub-plate mounting

Size	4
Type	HD-WE4-20/
Max operating pressure bar	210
Max Flow L/min	30

HD-WH

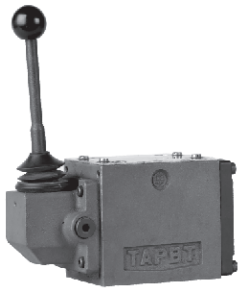
Directional valve with fluidic operation, Type HD-WH,

Hydraulic operated spool valve
Spring or pressure-centered
2-way valve with dedent, optional
Mounting type: sub-plate mounting

Size	6	10
Type	HD-WH	HD-WH
Max. operating pressure bar	315	315
Max. Flow L/min	60	120

HD-WMM10....30/

Directional control valve with hand lever, Type HD-WMM, series 30



Direct actuated directional spool valve with hand lever
With spring return or detent,
Sub-Plate Mounting

Size	10
Type	HD-WMM10.....30/
Max operating pressure bar	350
FlowL/min Max	100

4WEH-12-SG

Fixed displacement Vane Pump single excution

Flow: 30lpm / 40lpm
Voltage: Ac110v / Ac220v / Dc24v

Features:
Solenoid controlled pilot operated direction control valve for shock less type of machine toll application demanding smooth reversal, mechanical screw to adjust the spool shifting time, hence optimizing shocks to the machines, reducing oil hammering / piping vibration / jerks and machine vibration, spool stroke adjustment screw + meter out pilot oil flow adjustment screw + pilot oil tank line throttle adjustment screw makes a combination of valve suitable for these type of application, highly suitable for surface grinding machine applications & others.

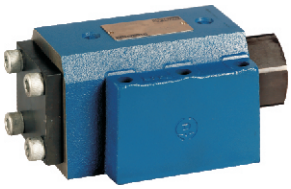
CHECK VALVES

HD-S
Check free flow valve type HD-S

Preferably closing a flow leak free in one direction and to permit free flow in the opposite direction
5 cracking pressures
3 mounting types: Sub-plate mounting, Threaded connection, Cartridge connection

Size	6	8	10	15	20	25	30
Type	HD-S	HD-S	HD-S	HD-S	HD-S	HD-S	HD-S
Max operating pressure bar	315	315	315	315	315	315	315
Max Flow L/min	18	36	60	150	250	350	450

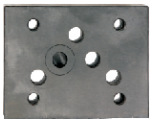
HD-SV/SL
Hydraulically pilot operated check valve, Type HD-SV/SL, Series 40



With or without leakage port
with or without pre-opening
4 opening pressures
2 mounting types: Sub-plate mounting, Threaded connection

Size	10	20	30
Type	HD-SV/SL		
Max operating pressure bar	315	315	315
Max Flow L/min	150	350	550

HD-Z1S
Check valve,type HD-Z1S



Preferably closing a flow leak free in one direction and to permit free flow in the opposite direction.
Sandwich plate valve for use in vertical stacking assemblies

Size	6	10
Type	HD-Z1S	HD-Z1S
Max operating pressure bar	315	315
Flow L/min Max	40	100

HD-Z2S
Check Valve, Hydraulically pilot operated type HD-Z2S

For leakage-free closure of one or two actuator parts, sandwich plate valve for use in vertical stacking assemblies

Size	6	10	16	22
Type		HD-Z2S		
Max operating pressure bar	315	315	315	315
Flow L/min Max	60	120	300	450

HPLK
Pilot operated check valve

Introduction :
Flow is allowed to pass from V1 to C1 when pressure at V1 rises above the spring bias pressure and poppet is pushed from its seat.

The valve is allowed closed (checked) from C1 to V1; when sufficient pilot pressure is present at X port, the pilot piston acts to push the poppet from its seat and flow is allowed from C1 to V1
Precision machining and hardening processed allow virtually leak-free performance in the checked condition.

HD-RVP
Check valve type HD-RVP

Preferably closing a flow leak free in one direction and to permit free flow in the opposite direction
mounting type-sub plate

Size	6	8	10	12	16	20	25	30	40
Type				HD-RVP					
Max operating pressure bar	315	315	315	315	315	315	315	315	315
FlowL/min Max	40	70	110	160	240	440	600	600	600

MCP/MCT
Check Modular valves

Size: 01
Max Pressure: 315 Bar
Max Flow: 35 l/min

CRT/CRG
Right Angle Check Valves

Sizes: 03, 06, 10
Max working pressure: 250 bar
Max. Flow: 250 l/min

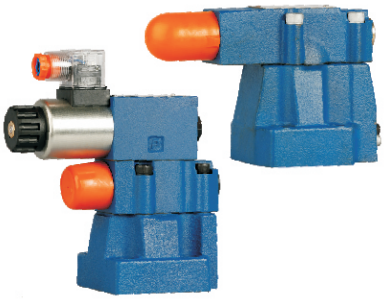
CPDT/CPDG/CPDF
Pilot Operated Check valve

Sizes:
CPDT: 04, 06, 10
CPDG: 03, 06. 10
CPDF: 10, 16
Rated Flow: 50, 125, 315, 500 l/min
Max. pressure: 250 kgf/cm²

PRESSURE VALVES

HD-DA/DAW

Pilot operated shut-off valve, Type DA/DAW

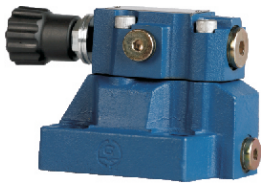


Solenoid actuated unloading via a built on directional valve type DAW
10% version, 17% version
4 pressure adjustment element optional
4 pressure ranges (in bar) 50, 100, 200, 315
For sub plate mounting

Size	10	20	30
Type	HD-DA/DAW		
Max. operating pressure bar	315	315	315
Version 10%	40	80	120
Version 17%	6	120	240

HD-DB....50/.....

Pilot operated pressure relief valve, Type HD-DB....50/...



5 pressure ranges: 50, 100, 200, 315, 350
3 pressure adjustment element, optional
3 mounting types: sub-plate mounting threaded mounting, manifold mounting

Size	10	15	20	25	30
Type	HD-DB.....50/.....				
Max. operating pressure bar	350	350	350	350	350
Max. Flow L/min	250	500	500	500	650

HD-DB.....K

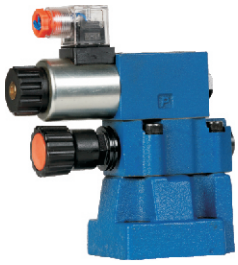
Pilot operated pressure relief valve, cartridge connection type HD-DB...K

4 pressure ranges (in bar): 50, 100, 200, 315
4 pressure adjustment elements, optional
mounting type: cartridge connection

Size	6	10	20
Type	HD-DB.....K		
Max operating pressure bar	315	315	315
Max Flow L/min	50	120	250

HD-DBW....50/....

Pilot operated pressure relief valve, Type HD-DBW....50/....

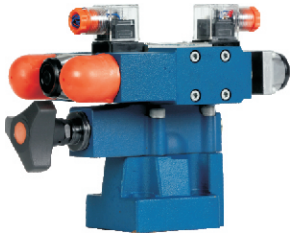


Solenoid operated unloading via a built on directional spool valve
5 pressure ranges (in bar) 50, 100, 200, 315, 350
3 pressure adjustment elements, optional
3 mounting types: sub-plate mounting, threaded connection, manifold mounting

Size	10	15	20	25	30
Type	HD-DBW				
Max operating pressure bar	350	350	350	350	350
Max flow L/min	250	500	500	500	650

HD-DB3U10-30...30/...

Pilot operated pressure relief valve, with two or three pressure rating Type HD-DB3U10-30...30/...



Solenoid operated control via mounted directional valve
2 pressure ranges (in bar) 100, 315bar
3 pressure adjustment elements, optional
3 mounting type: sub-plate mounting, threaded connection, manifold mounting

Size	10	15	20	25	30
Type	HD-DW3U				
Max operating pressure bar	315	315	315	315	315
max flow L/min	200	200	400	400	600

HD-DR....DP

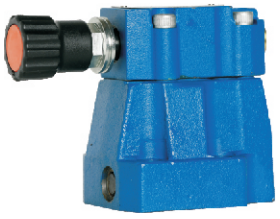
Direct operated pressure reducing valve type HD-DR.....DP

Direct operated pressure reduction in 3 ports
3 or 4 pressure adjustment elements, optional
5 pressure ranges (in bar): 25, 75, 150, 210, 315
Mounting type: sub plate mounting

Size	5	6	10
Type	HD-DR.....DP		
Max operating pressure bar	315	210	210
Max flow L/min	15	60	80

HD-DR

Pilot operated pressure reducing valve, Type DR (50 series)



Pilot operated pressure reducing valve
4 pressure adjustment elements, optional
4pressure ranges (in bar): 50, 100, 200, 315
Check valve optional
2 mounting type: sub-plate mounting threaded connection

Size	10	15	20	25
Type	HD-DR			
Max. Operating pressure bar	315	315	315	315
Max Flow L/min	150	300	300	400

RT/RG/RCT/RCG

Pressure Reducing Valves / Pressure Reducing and Check Valves

Sizes: 03, 06, 10
Max pressure: 210 bar
Max. flow: 50, 125, 250 l/min
Introduction:
Pressure reducing valves are used to set the pressure of a hydraulic circuit below that of the main circuit. In addition, operation under remote control is possible by using the remote control port. Pressure reducing and check valves have check valves, which allow a free flow from the secondary side to the primary.

PROPORTIONAL VALVES

HD-2FRE

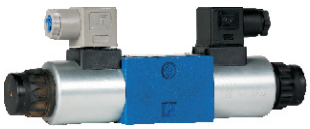
Proportional flow control valve 2-way version, type HD-2FRE

According to electrical command value controlling the volume flow of a hydraulic fluid
With a pressure compensator for the pressure compensated control of a flow
Actuation via a proportional solenoid
With electrical position feedback of the control orifice Both valve and electronic control from one supplier. Flow control is possible in both directions by using a rectifier sandwich plate
Mounting type: sub-plate mounting

Size	6	10	16
Type		HD-2FRE	
Max operating pressure bar	210	315	315
Max Flow L/min	25	60	160

HD-3DREP6

Proportional pressure reducing valve of 3-way design, Type HD-3DREP6



The 3 way pressure reducing valve is directly actuated by proportional solenoids, limiting a system pressure. Wet pin DC proportional solenoids. Both valve and electronic control from one supplier Mounting type: Sub-plate mounting

Size	6
Type	HD-3DREP6
Max operating pressure bar	100
Max Flow L/min	15
Delay components	<3
Repeatability Precision	<1
Electronic control with	1 ramp times VT-3000S30
Electronic control with	5 ramp times VT-3006S30

HD-4WRA

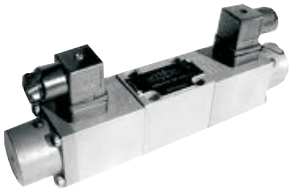
Proportional directional valves, Direct actuated, without electrical feedback, type HD-4WRA

Direct actuated proportional valve for controlling the direction and volume flow of the hydraulic fluid. Wet pin DC proportional solenoids
Spring centered control spool
Both valve and electronic control from one supplier. For sub plate mounting:

Size	6	10
Type	HD-4WRA	
Max operating pressure bar	315	315
Max flow L/min	43	95

HD-4WRE

Proportional Directional valves, Type HD-4WRE



Direct actuated proportional valve for controlling the direction and volume flow of a hydraulic fluid
Electrical feedback
Wet pin DC Proportional solenoids
Spring centered control spool
Both valve and electronic control from one supplier
Mounting type: Sub-plate

Size	6	10
Max operating pressure bar	315	315
Max Flow L/min	80	180

HD-4WRZ...7X

Proportional Directional valve

Pilot operated with integrated electronic
Size: 10, 16, 25, 32
Working pressure bar 315
Max Flow L/min 30

Pilot operated operational directional valve
For sub-plate mounting
The control of direction and rate of flow
Spring centered control spool
Valve and proportional control electronics from a single source

PV-3/PV-4 Series

Proportional Valves

Max. Flow: 140 l/min
Max. pressure: 350 bar
Applications:
For Mobile & Industrial hydraulic applications

LSPV Series

Load Sensing Proportional Control valve

LSPV 15
Rated pressure: 350 bar (pump side)
420 bar (actuator side)
Rated Flow: 200 L/min
Applications:
Aerial work platform, Forestry machine
Drilling rigs, Mining truck, Mining truck
Crane, Telehandler, Stone Crusher

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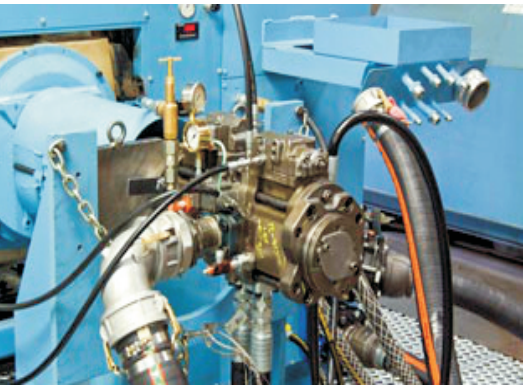
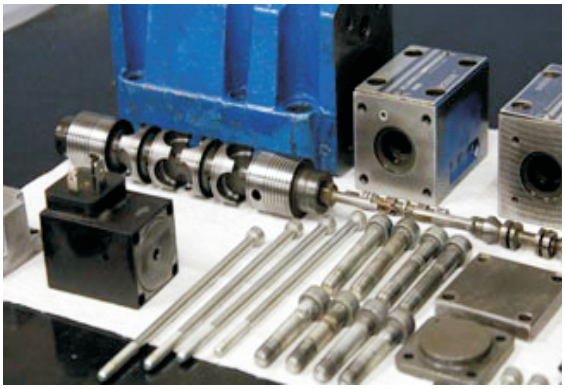
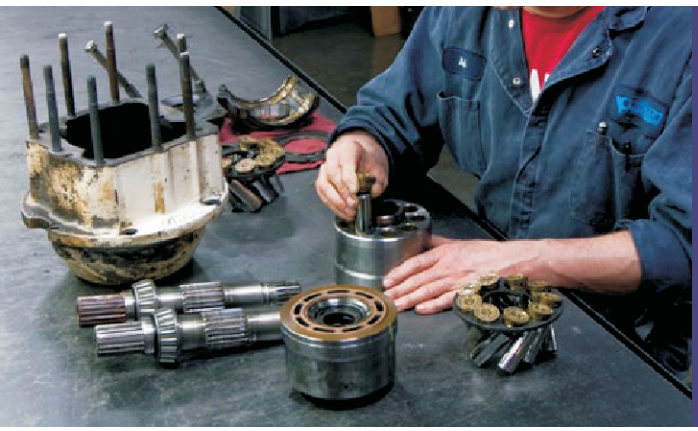




OVER 40 YEARS OF EXPERIENCE REPAIRING HYDRAULIC COMPONENTS

We pride ourselves on offering customers a flexible one-stop shop for hydraulic repairs.



PUMPS & MOTORS

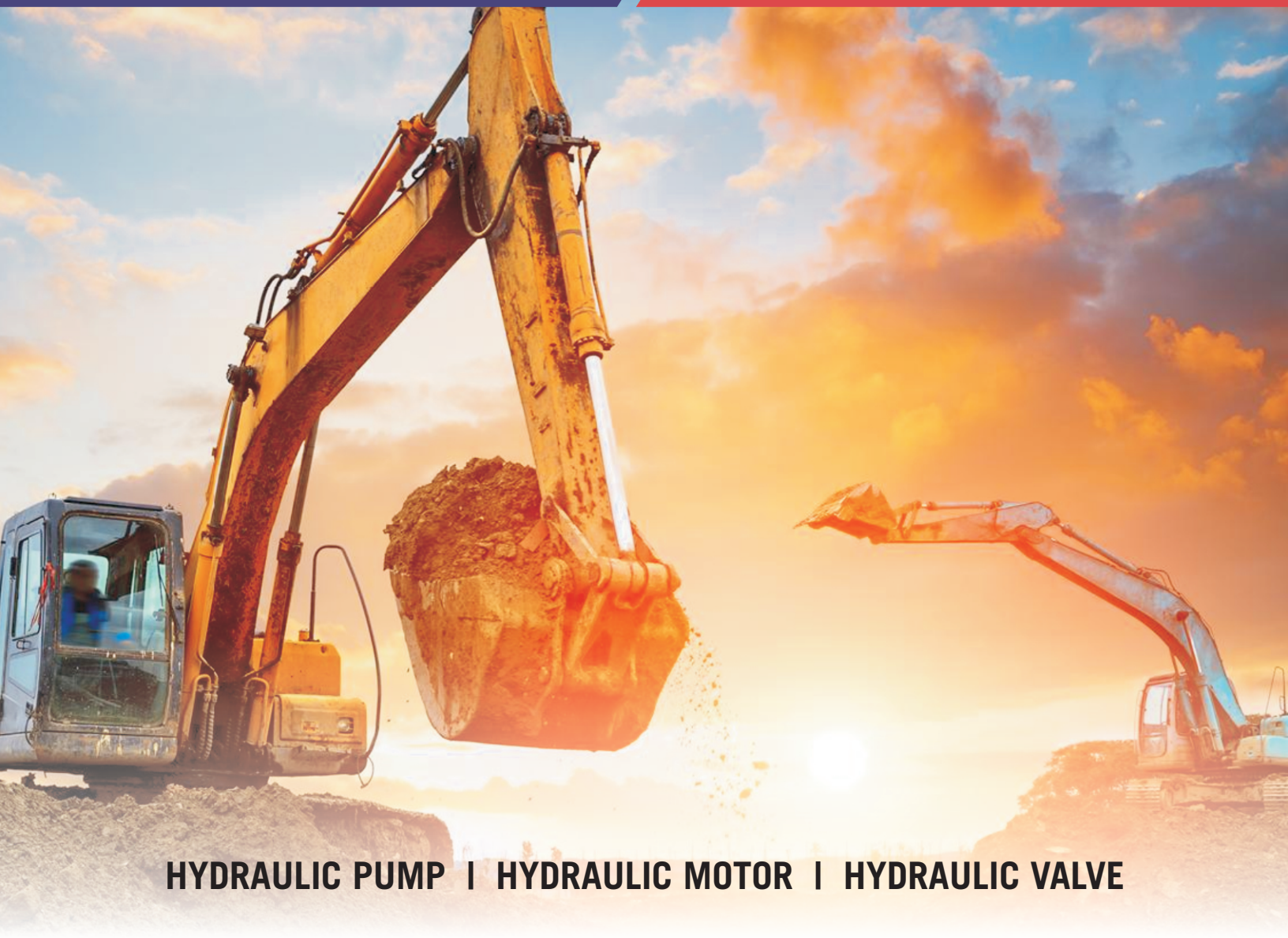
From piston, vane and gear, we do it all

We provide expert hydraulic pump and motor repairs on Vickers®, Bosch®/Rexroth®, Kawasaki®, Oilgear®, Sauer Sundstrand®, Hitachi® Caterpillar®, Uchida®, Linde®, Komatsu®, Eaton®, Denison®, Racine®, & more. Covering from small to very large displacement size units - we can do them all. We also repair gearboxes, final drives, winch motors and other specialty hydraulic pump & motor units.

VALVES & SERVO/PROP VALVES

If it's a hydraulic valve, we can repair it

Our valve departments have the technical expertise and necessary equipment to repair hydraulic valves from manufacturers like Vickers®, Moog®, Schenck Pegasus®, Bosch®/Rexroth®, Oilgear®, Denison®, Atchley®, Atos®, HR Textron®, Hydrolux®, Parker® & more. We also repair main control valves found on mobile equipment from Kawasaki®, Kayaba®, Parker®, Rexroth®, Komatsu®, Commercial®.



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