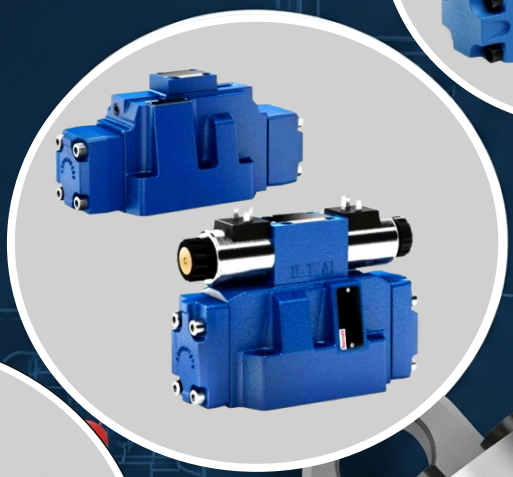
UDAY HYDRAULICS

FOCUS

- INDUSTRIAL HYDRAULICS
- MOBILE HYDRAULICS
- HYDRAULIC POWER PACKS
- HYDRAULIC CYLINDER
- SERVO HYDRAULICS



"Precision in Motion"

UDAY HYDRAULICS

Your Trusted Partner in Hydraulic Solutions.

MISSION

To provide dependable hydraulic products and tailored solutions that enhance operational productivity. We strive to combine technical expertise, modern manufacturing and responsive support to create value and build lasting customer partnerships.

VISSION

To become the most trusted and preferred hydraulic solutions partner in the industry known for consistency, integrity, technical expertise, and our ability to deliver world-class products backed by unmatched service and support.

About Us

UH Uday Hydraulics, founded in 2024 by Mr. Rajeev Rawat (Managing Director) is a growing force in the field of hydraulic engineering and manufacturing. we specialize in a wide range of hydraulic solutions, catering to diverse industrial needs with a strong focus on quality, performance, and reliability.

Our product portfolio includes industrial hydraulics, mobile hydraulics, hydraulic power packs, hydraulic cylinders, servo hydraulics, and a variety of custom hydraulic systems tailored to meet specific client requirements. With a passion for innovation and a commitment to excellence, Uday Hydraulics combines advanced manufacturing capabilities with in-depth technical expertise to deliver solutions that enhance operational efficiency and productivity.Guided by the leadership of our founders, we strive to be a trusted partner in powering progress across industries through cutting-edge hydraulic technology and unwavering customer support.

UDAY HYDRAULICS

HYDRAULIC PUMPS

OPEN CIRCUIT AXIAL PISTON PUMPS

A2F – Fixed-displacement pump/motor

Features: Axial piston fixed displacement motor in bent axis design.Suitable for open and closed circuit hydrostatic drives.Output flow is proportional to drive speed and displacement.Output torque increases with pressure drop between ports. High-performance spherical valve plate rotary group.High efficiency, long life, low noise.

Note: Fixed displacement pump/motor A2F is an axial piston unit in bent axis design. Suitable for use in both open and closed circuit hydrostatic drives. Output flow is proportional to the drive speed and displacement. Output torque is proportional to the pressure drop between the ports.

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

A2FO – Fixed-displacement bent axis piston pump

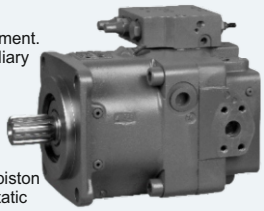
Features:Bent axis piston design.
Output flow proportional to drive speed.High-speed capability.Compact and lightweight design.Designed for mobile/industrial use.Bearings designed for long service life in extreme conditions.

Note: Fixed displacement pump A2FO of axial piston design in bent axis design suitable for hydrostatic drives in open circuits, suitable for use in mobile or industrial applications. Output flow is proportional to the drive speed and displacement. The spherical shape of the pistons ensures a low-friction, wear-resistant operation.

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

A11VO / A11VL0 – Variable displacement pump with axial piston drive

Features: Axial piston pump for open circuits. Proportional flow to drive speed and displacement. Wide range of control options.Integrated auxiliary pump available.Optional through-drive.

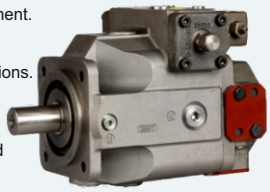


Note: Variable displacement pump with axial piston rotary group in swash plate design for hydrostatic drives in open circuit.

Displacement: 40–260 ml/r

A4VSO – Variable displacement pump

Features: Axial piston design (swash plate).
Flow is proportional to input speed & displacement.
High operating pressure (up to 350 bar).
Low noise.
Optional through-drive and variable control options.



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

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

A10VSO – Variable displacement pump

Features: Axial piston unit with swash plate design. Compact, quiet system.Flow proportional to drive speed and displacement.High-pressure capability. Long service life.Through-drive option available.

Note: The A10VSO pump, swash plate design for open circuit system used in a varied range of applications. Flow is proportional to drive speed and displacement.

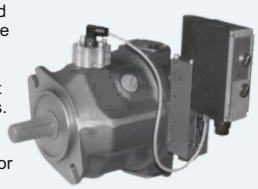
Size: 10, 18, 28, 45, 71, 100, 140

UDAY HYDRAULICS

OPEN CIRCUIT AXIAL PISTON PUMPS

A10VS0DFE/DFEE – Control type SYDFE/SYDFEE

Features: Flow proportional to drive speed and displacement. Infinitely variable by swash-plate adjustment (SAE ISO mounting flange). Fixed connection to SAE metric. 2 case drain ports, short response time, low noise level. Compact design. Long service life. Short response times. Through-drive option for multi-circuit systems.

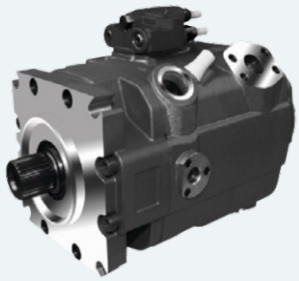


Note: Axial piston pump, swash plate design for hydrostatic open circuit system used in varied medium duty application in industrial & mobile machines.

Size: 28, 45, 71, 100, 140

A15VSO – Variable Axial Piston Pump

Open circuit
Sizes: 110 to 280
Nominal pressure: 350 bar
Maximum pressure: 420 bar
Features:Variable axial piston pump (swash plate) for hydrostatic drives.
Flow proportional to speed and displacement.
Wide control range.
Compact design. High efficiency.Long service life.
Low noise level.



A7V – Variable displacement pump

Features: Flow is proportional to drive speed and displacement. Stepless variation of displacement. Compact design. Good suction characteristics. High power-to-weight ratio. Bearing designed for long life. Low noise.

Note: Variable displacement pump, axial piston bent axis design for hydrostatic transmissions in open circuits. Flow is proportional to the drive speed and displacement and steplessly variable over a wide range. Comprehensive program of controls allows pump operation suited to every application.

Size: 20, 28, 40, 55, 56, 80, 78, 107, 117, 160, 250, 355, 500

A8V – Variable double pump

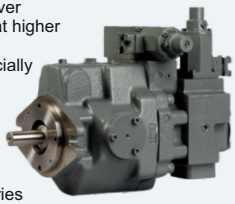
Features: 2 variable pumps in one housing.
Same flange and drive shaft to SAE.
Output flow can be controlled independently.
Optional through-drive.
High-pressure operation.
Long service life.

Note: Two variable pumps in a common housing. The hydraulic pumps are flange mounted on engine; the same flange and control shaft (SAE) are used. Output flow can be independently adjusted or changed during operation.

Size: 28, 55, 56, 80, 107, 125, 160

A Series – Variable displacement piston pump

Features: High volumetric efficiency up to 98%.Over 15+ years of field usage. Optimum performance at higher pressure levels. Large bearing area ensures long service life. Axial piston swash-plate design. Specially hardened sliding surfaces. Pump is reversible (bi-directional). Available in different models for various needs: open circuit, closed circuit, electro-hydraulic, torque motor, etc.



Note: High volumetric efficiency (up to 98%) and overall efficiency (more than 90%). These “A” Series pumps are extensively proven in the field over more than 15 years. The swash plate construction with a large bearing area and optimally hardened sliding surfaces ensures long life and reliability.

A2VK – Variable Pump

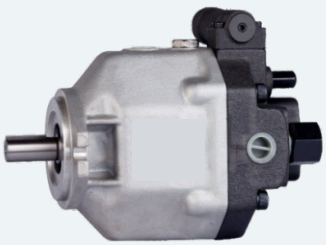
Series: 1 and 4, for open circuits
Nominal pressure: up to 250 bar
Features: Precision, efficiency, and repeatability. Hydraulically actuated.Compact and maintenance-free.Flow proportional to input speed.Suitable for many industrial hydraulic systems.

Note: Axial piston unit for hydraulic and built-in precision control systems. High volumetric efficiency and highly dynamic control behavior.

Size: 12, 28, 55, 107

AR SERIES – Axial Piston Pump

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. Applications: CNC lathe machine, bending machine, punch/hydraulic press. High-efficiency machine.



Sizes: 10, 16, 22 cc/rev

HY SERIES – Variable Displacement Axial Piston Pump

Displacement: 10–320 ml/r Max Pressure: Up to 400 bar
Features: Axial piston type with hydrostatic trunnion bearing.Fineless flatness of compact size. High output efficiency.Long life.Simple construction and easy maintenance. Compatible with ISO standards.Suitable for high-pressure applications.

Note: The HY10–HY340 series Pump is of axial piston type with hydrostatic trunnion bearing, fineless flatness of compact size, high output efficiency, long life, simple construction and easy maintenance. This Hydraulic Pump model is designed to operate up to 400 bar and speeds up to 1500 rpm. Compatible sizes: 10, 16, 22, 28, 45, 71, 100, 125, 160, 250, and 320 ml/r.

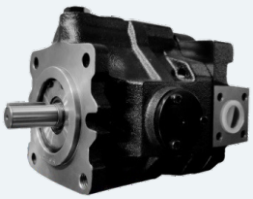
Size: 12, 28, 55, 107

UDAY HYDRAULICS

OPEN CIRCUIT AXIAL PISTON PUMPS

MV Series – Bi-directional Axial Pion Pump (For Servo Applications)

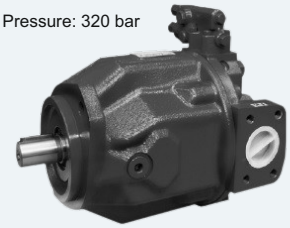
Operating Pressure: 175 bar
Max Pressure: 250 bar
Features: Servo driven design for chargeable closed-loop systems. New design with full pressure-time relief design. Twin face design for low oil pulsation. Compact, high-efficiency structure. Bi-directional capability. Suitable for servo hydraulic systems. Ideal for tool changers or robotic arms.

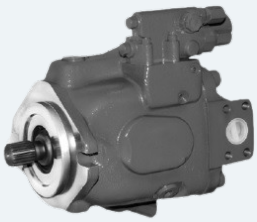


Sizes: 8, 10, 12, 15, 18, 23, 25, 38, 50, 75

UP Series – Bi-Directional Axial Pion Pump

Max Pressure: 320 bar





Flow Range (cc/rev): 30, 50, 90, 110, 140, 170, 200, 250, 320, 480

CY Series – Fixed-displacement pump/motor

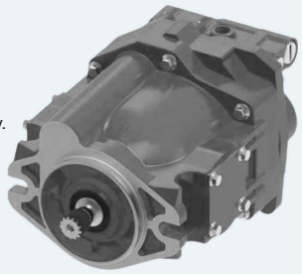
Series: 14–18
Nominal Pressure: Up to 350 bar

Features: CY series axial piston pump is suitable for use in hydraulic circuits.Available in unidirectional and bidirectional types. Operates by fluid movement inside a rotating cylinder block.High volumetric efficiency. Simple and robust construction.Widely used in heavy machinery and industrial applications.

Size: 1.5 … 400

PVB – Axial Piston Pump

Max Pressure: 210 bar
Max Flow: 9.5 l/min
Introduction: S wash plate-type design. Compact structure. Used in machine tools and transfer lines. Ideal for small hydraulic systems or rotating machinery.



Sizes: 6, 8, 10, 15

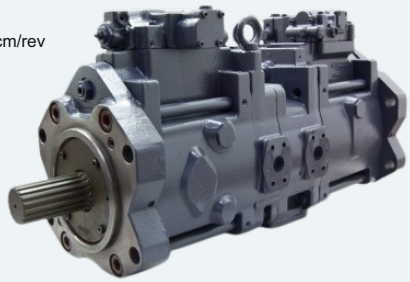
K-AP – Bent Axis Piston Pump

Max Pressure: Up to 350 bar
Maximum Speed: 4300 rpm
Minimum Speed: 1750 rpm

Sizes: 22 to 125 cc/rev

K3V Series – Axial Piston Pump

Type: Open circuit
Displacement: 65–280 ccm/rev
Rated Pressure: 340 bar



PV – Axial Piston Pump

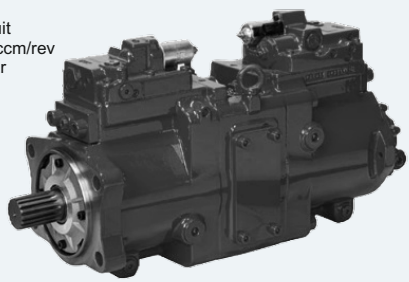
Nominal Pressure: Up to 350 bar

Features: New type of swash plate and large servo piston with strong bias spring achieves fast response. Includes decompression system to reduce drive torque at startup.

Suitable for: Automotive industry, Industrial ships, Forging machines, Tire machines Injection molding machines, Die-casting machines, Special purpose machinery High/low-pressure pre-compression technology (pre-/low-pressure built-in relief in multistage low outlet flow pistons)Rigid and FEM-optimized body design for lowest noise level.

K7V Series – Axial Piston Pump

Circuit Type: Open circuit
Displacement: 65–140 ccm/rev
Rated Pressure: 350 bar



UDAY HYDRAULICS

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/minMaximum
Torque continuous up to 46 Nm

BMP (OMP)

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

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 continuous up to 46 Nm

BMSY (OMS/BM3Y)

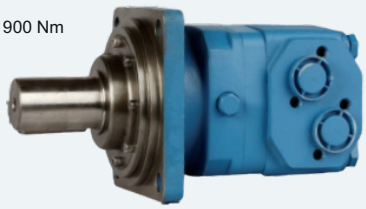
Displacement: 80, 100, 125, 160, 200, 250, 315, 400
Maximum Pressure drop continuous: 225 bar
Maximum flow continuous: 75 lpm
Maximum Torque continuous up to 560 Nm

BMT (OMT/BM4U)

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

BMV (OMV/BM5U)

Displacement: 315, 400, 500, 630, 800, 985
Maximum pressure drop continuous: 200 bar
Maximum flow up to: 150 lpm
Maximum torque continuous: 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 continuous up to 850 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 continuous up to 465 Nm

UDAY HYDRAULICS

HYDRAULIC GEAR PUMPS

MBI Series Bent Axis Piston Motors

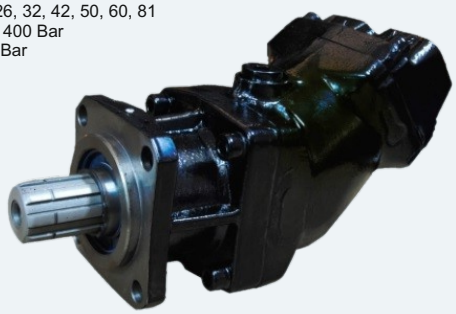
Displacement: 17, 26, 32, 42, 50, 60, 81, 108, 126, 136, 142, 156, 172
Operating pressure 350 Bar
Max. Pressure 400 Bar

Features:
Excellent Performance
Low Noise
High Efficiency
Bidirectional

MBIF Series Iron Cast Bent Axis Piston Motor

Displacement: 17, 26, 32, 42, 50, 60, 81
Operating pressure 400 Bar
Max. Pressure 450 Bar

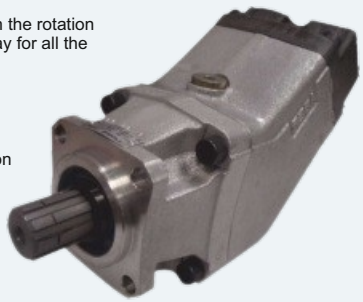
Features:
Higher Pressure
Compact Design
High Reliability
Bidirectional



BI Series Single Bent Axis Piston Pumps

Displacement: 17, 26, 32, 42, 50, 60, 80, 81, 108, 126, 136, 142, 156, 172
Operating Pressure: 350 Bar
Peak Pressure: 400 Bar
BI Series allows a change in the rotation way in an easy and safe way for all the pump components.

Features:
Maximum Efficiency
Less Pulse
Switchable Sense of Rotation
Reversible



BID Series Double Bent Axis Piston Pumps

Displacement: 57+28, 38+37, 80+38, 58+60, 70+66
Operating Pressure: 350 Bar
Max. Pressure: 400 Bar
Operating Rotation Speed: 1650 rpm
Max Rotation Speed: 2300 rpm
Bent Axis Piston Pump with two outlets, which work on independent pressure and on independent circuits, when used to serve two independent oil circuits.

Features:
Two Oil Outlets
Maximum Efficiency
Switchable Sense of Rotation
Reversible

UDAY HYDRAULICS

CLOSED CIRCUIT AXIAL PISTON PUMPS

A4VTG – Variable Displacement Axial Piston Pump

Note: Swash plate design for hydrostatic closed loop circuit systems in industrial and mobile machines.Flow proportional to drive speed and displacement.Infinitely variable by adjusting the swash plate. High-pressure operation (up to 350 bar). Compact design, low noise, low inertia rotary group. High power density, through-drive option for multi-circuit systems.

A4VG – Variable Displacement Axial Piston Pump

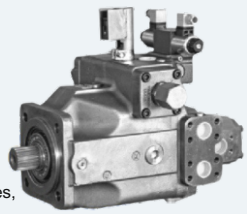
Displacement: 40–125 ml/r
Flow: 165–346 l/min
Max Pressure: Up to 450 bar

Features:Axial piston swash plate design. For closed circuit hydrostatic drives. Flow is proportional to drive speed and displacement. Integrated auxiliary pump.High-pressure resistance and through-drive option.Common use in mobile and industrial drives with hydraulic transmission.

A4VSG – Variable Displacement Axial Piston Pump

Displacement: 60–750 ml/r
Max Pressure: Up to 400 bar

Features: Swash plate design.
Flow proportional to drive speed and displacement. Low noise and high reliability. Adjustable power control and flow cut-off. High radial/axial load capacity. High-pressure stable construction. Applications: press machines, forging machines, hydraulic transmissions, injection molding, and die-casting.



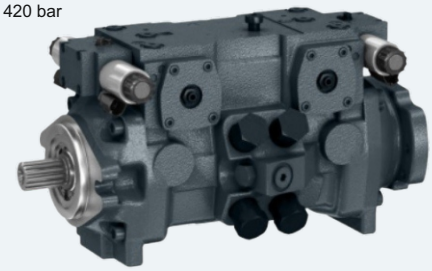
PVH & PVH2 SERIES – Variable Displacement Axial Piston Pump (Swashplate Design)

Displacement: PVH: 33 to 110 cc/rev
PVH2: 32 to 141 cc/rev
Max Pressure: 280 bar

Features:Compact axial piston design. Reliable under high dynamic conditions. High efficiency and long life.Excellent suction characteristics. Applications: construction machinery, injection molding machines, machine tools, crushers, mixers, compaction rollers, and road rollers.

A22VG – Axial Piston Variable Double Pump

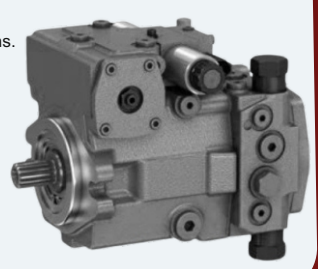
For Closed Circuit
Size: 45cc/rev
Nominal Pressure: 380 bar
Max Pressure: 420 bar



A10VG – Axial Piston Variable Pump

Nominal Pressure: 300 bar
Max Pressure: 350 bar
Circuit: Closed circuit

Application: Medium pressure pump for closed-circuit diesel-driven applications.



UDAY HYDRAULICS

AXIAL PISTON MOTORS

A2FM Fixed displacement Bent Axis Piston Motor

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.

Size: 16…180

A2FE Fixed-displacement plug-in motor A2FE

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 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.

Size: 55, 80, 107, 125, 160

A6V Variable displacement motor A6V

Note: Variable displacement motor A6V is designed 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.

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

A6VEVariable displacement plug-in motor A6VE

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 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..

Size: 55, 80, 107, 160

A6VM Variable Axial Piston Motor

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

UDAY HYDRAULICS

HIGH PRESSURE GEAR PUMPS

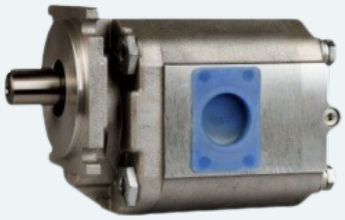
CBB

The CB-B gear pump is a power component in a hydraulic system. The pump uses high-precision gears, high-strength cast iron shells and other structures. The mechanical energy transmitted by the motor is converted into a hydraulic energy conversion device by intermeshing gears. In the hydraulic system to provide a fixed hydraulic energy. The pump has the advantages of simple structure, reliable operation, convenient maintenance, good adaptability to impact load, widely used in the hydraulic system of the machine tool, and can be used in hydraulic systems of other machines.

CBKP

Single, Double & Triple Gear Pump with roller bearings

CBKP1Size: 32cc to 100ccMax Pressure: 250 Bar



CBKP2

First pump: 40cc to 100cc
Second pump: 32cc to 100cc
Max Pressure: 250 Bar

CBKP3

First pump: 50cc to 100cc
Second pump: 32cc to 100cc
Third pump: 32cc to 100cc
Max Pressure: 250 Bar

UDAY HYDRAULICS

AXIAL PISTON PUMPS

VDP SeriesVariable Displacement Pumps

Displacement: 40.1, 60.6, 76.4, 92.6, 109.4
Operating Pressure: 410 Bar
Max. Pressure: 450 Bar
ABER's VDP Designed with care for the needs and applications in the hydraulic trucks industry, it can be used for a wide range of applications.

Features:
Adaptable Pressure
Fast Reaction
Flow Reset
High Pressure
Long Service Life
Low Noise
Compact Design
High Efficiency
Efficient Cooling

BIF Series Iron Cast Bent Axis Piston Pumps

Displacement: 17, 26, 32, 42, 50, 60, 81
Operating Pressure: 350 Bar
Max. Pressure: 400 Bar
Iron cast BIF Series pumps were designed to be very compact. The BIF series configuration gives particular advantage on mobile applications such as trucks with high collision probability between the rear axle truck transmission and the hydraulic pump.

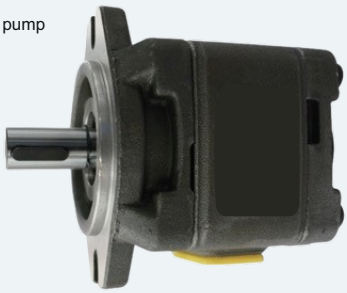
Features:
Higher Pressure
Less Pulse
Maximum Efficiency
Compact Design
Fits on ZF Astronic Gearbox Transmissions

UDAY HYDRAULICS

PUMPS FOR SERVO SOLUTION

IGP05 Series

For Servo applications
High pressure internal gear pump
Sizes: 3.5, 4, 5, 6.3
Flow: 3.6, 4, 5.3, 6.5 ml/r
Max. Pressure: 315 bar



A6V Variable displacement motor A6V

Note: Variable displacement motor A6V is designed 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.

VPS1,2,3SERVO VANE PUMP 16cc ~ 180cc

cc/rev: VPS(1)16...64 VPS(2)64...125 VPS(3) 160...180

The construction of the pump incorporates a leakage line help reducing the pump holding temperature enhancing the life and the stability of the pump. The design enables the pump to perform at low speed and high pressure. Low noise, wide spread range, better resistance to oil contamination. Wide range to displacement 16cc-200cc/rev, speeds upto 2800 rpm, pressure upto 280 bar. Cartridge assembly replacement available as spares. This pump is specially designed for servo system application offering fast and low speed, with excellent response to switching.

Size: 16, 20, 25, 32, 40, 50, 64, 70, 80, 100, 125, 160, 180

IGP 1,2,3 & DIGP High pressure Internal Gear Pump

Large Suction & Delivery Ports
Available Size: 8, 10, 13, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160
cc/rev: IGP(1)8....20 IGP(2)25....63I GP(3)80....160
DIGP(11)8....20
DIGP(21)22) 25....63
DIGP(32)(33)80....160

Features: Low pulsation of oil flow, fixed displacement, Low operating noise, due to sealing gap compensation high efficiency at low speed and viscosity, wide speed ranges can operate up to 3000r/min peak pressure up to 350 bar option for double pump. Double pumps are also available in different combination of sizes.

UDAY HYDRAULICS

VANE PUMPS

VDN Variable Volume Vane Pump

Size: 8, 16 cm³/rev
Max. Pressure: 80Bar

Features:
Energy efficient high performance Lightweight, compact design, Low noise, long life, High volumetric efficiency and low leakage will cause less heat generation and improves the accuracy.
Space saving.

HVP Medium pressure Variable Vane pump

Flow: 16.7, 22.2 cc/rev.
Max. pressure: 140 Bar
Min. speed: 800 r/min
Max. speed: 1800 r/min

Features:
Low noise: it adopts anti-vibration and sound-proof mechanism, and it can effectively eliminate the vibration under high pressure by controlling the special three-point support of the piston and the offset piston, and the operation is quiet;
High sensitivity: pilot-type oil control mode, the flow quickly follows the change of working conditions;
High pressure: using high-quality materials and special pressure control mechanism and forced balance mechanism, the pressure can be effectively and smoothly operated under 140bar.

PV2R1,2,3Fixed Vane Pump

Nom Pressure: 200 bar
Max pressure: 250 bar

Features:
Patented 2 Pcs housing design, lower leakage, high efficiency.
Big displacement up to 200cc/r, high pressure design.45mm parallel shaft specially designed for general applications (splined shaft also available on demand).
High strength gear material for long life.

PV2R5Fixed Vane Pump (Large Flow)

Max pressure: 120 bar

Features:PV2R5-Series are high performance vane pump with long life for medium pressure application.
High volumetric efficiency upto 92% @120barMaximum operating pressure up to 120barTwelve Vane Design for quite operation Versatile, rugged and optimized design
Compact, Four flow option Cartridge design

Sizes: 230, 272, 320, 348 cc/rev

UVCM...8/12/15/20/30/40/50 Variable Vane pump

Direct Operated Displacement: 4.4 cc to 28 cc
Max pressure: 70bar

Features:
Good efficiency operation with minimum pressure loss, very low noise during operation, compact and simple design, space saving sturdy structure for high efficiency and long service life, adjustable displacement volumes, highly preferred for CNC and special purpose machines.

V SERIES High Performance Intravane pumps for Industrial applications

Displacement: 20V: 7.5-45 ml/r
25V: 32.5-67 ml/r
35V: 67-142 ml/r
45V: 138-237 ml/r
Max. pressure up to 210 bar

UDAY HYDRAULICS

TRACK DRIVER & MOTOR

Track Motor

Max. Displacement: 45 ml/r
Min. Displacement: 17.5 ml/r
Max. pressure: 350 bar
Max. speed (at max. disp.): 3500 r/min
Max. speed (at min. disp.): 4650 r/min
Output torque: 0.75Nm/bar

UDAY HYDRAULICS

DIRECTIONAL VALVES

UH-M-SEW6/10

Poppet directional valves, solenoid actuated

Type UH-M-SEW6
Direct operated directional poppet valve, solenoid actuated
Closed port is leak free
No switching is ensured even after long periods of being under pressure
Air gap DC solenoids with removable coil (it is not necessary to open the pressure tight chamber when changing the coil)
Solenoid coil can be rotated by 90 degrees With protected hand override, optional Individual electrical connection
Mounting type: sub plate mounting

Size: 10Type: UH-M-SEW6
Max operating pressure bar: 630
Max. Flow L/min: 25, 40

M3-SED6/10

3/2- and 4/2-way directional poppet valves with solenoid actuation

Size: 6Max. Pressure: up to 350 bar
Max. Flow up to: 25 L/min

Features:
Direct operated directional poppet valve with solenoid actuation
Closed port is leak-freeIndividual electrical connection
With protected manual override, optional
Porting pattern to DIN 24340 form A,
ISO 4401 and CETOP-RP 121H

Sd4

Monoblock Directional Control Valve
Maximum Flow: 45 L/min
Operating Pressure: up to 315 Bar

Features:Simple, compact design, this valve is only one section for open centre and closed centre hydraulic systems. Fitted with a main pressure relief valve. Diameter 16 mm interchangeable spools.
Available manual and remote with flexible cables spool control kits.

Sd8

Sectional Directional Control Valve
Maximum Flow: 90 L/min
Operating Pressure: up to 315 Bar

Features:
Simple, Compact and heavy-duty designed sectional valve from 1 to 14 sections for open and closed center hydraulic systems. Fitted with a main pressure relief valve and a load check valve on every working section. Available in manual control only. Optional carry-over port.
A wide range of port and circuit valves.
Intermediate sections for several types of circuit.
Diameter 18 mm interchangeable spools.
Available with parallel, tandem or series circuit.

DCV 140/200 L/min

Sectional Directional Control Valve
Maximum Flow: 140, 200 L/min
Maximum Pressure: up to 350 Bar

Features:
DCV directional control valve is designed for high pressure hydraulic systems such as drilling machine, sanitation etc. Auxiliary valve: over-load valve, anti-cavitation valve, combined valve etc.
Control type: manual, joystick, cable, pneumatic, solenoid, electro-pneuma
tic, electro-hydraulic etc.
Structure: sectional type. Carry-over port as hydraulic source for other parts.

Z50

Solenoid Direction Control
ValveSpool: 1 to 6
Max Pressure: 315 Bar
Max Flow: 5 L/min

Features:
Built-in check valve: The check valve inside the valve body is to ensure the hydraulic oil does not return. Built-in relief valve: The relief valve inside the valve body is provided to adjust the hydraulic system working pressure.
Oil way: Parallel circuit, power beyond option
Coils, Connector ISO4400: 12VDC, 24VDC
Threads: P/T ports - G1/2", A/B ports - G3/8"Valve construction: Monoblock construction, 1–7 spools

P40/P80/P120

Monoblock Directional Control valve
Nom. Pressure: 210 bar
Max. Pressure: 250 bar
Max. Flow: 40 Ltr / 80 Ltr / 120 Ltr

Features:
Manually or mechanically controlled hydraulic directional control valve P40/P80/P120 are designed for distribution and control of the flow of oil between generator (pump) and the cylinder / hydro-motor etc.

It is manufactured with 1 to 6 spools, with parallel or series function, with common or individual back valve for each spool, with or without safety valve

Sizes: 1P40, 2P40, 3P40, 4P40, 5P40, 6P40
1P80, 2P80, 3P80, 4P80, 5P80, 6P80

UDAY HYDRAULICS

DIRECTIONAL VALVES

UH-WE

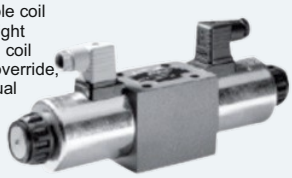
Directional control valve, electrically operated, Type UH-WE

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, 10Type: UH-WE
Max. operating pressure bar: 250 (size 5), 350 (size 6), 315 (size 10)Flow L/min
Max: 14 (size 5), 120 (size 6)

UH-WE4.....20/

Directional control, electrically operated type UH-WE4…20/



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: 4Type: UH-WE4-20/
Max. operating pressure bar: 210
Max. Flow L/min: 30

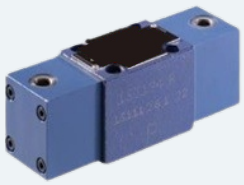
UH-(H)-WEH/WH

Pilot operated directional valve, Type UH-(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
Mounting type: sub plate mounting
Size: 10, 16, 25, 32Type: UH-(H)-WEH/WH
Max. operating pressure bar: 28/350
Max. Flow L/min: 160 (size 10), 300 (size 16),650 (size 25), 1100 (size 32)

UH-WH

Directional valve with fluidic operation, Type UH-WH



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

Size: 6, 10Type: UH-WH
Max. operating pressure bar: 315
Max. Flow L/min: 60 (size 6), 120 (size 10)

UH-WMU/R

Roller operated directional valve

Type UH-WMU/R
Directed operated directional spool valve with adjustable roller operation
Roller lever assembly may be stepped in 90 degree increments

Size: 6, 10Type: UH-WMUR
Max operating pressure bar: 315Flow L/min
Max: 60 (size 6), 120 (size 10)

UH-WMM10....30/

Directional control valve with hand lever

Type UH-WMM, series 30
Direct actuated directional spool valve with hand leverWith spring return or detent
Sub-Plate Mounting

Size: 10
Type: UH-WMM10.....30/
Max operating pressure bar: 350
Flow L/min Max: 100

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)

4WEH-12-SG

Fixed displacement Vane Pump single execution

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

Features:
Solenoid controlled pilot operated direction control valve for shock less top & bottom pressing, demanding smooth reversal, mechanical screw to adjust the shock setting time, hence optimizing
shocks to the machines, reducing oil hammering / piping vibration / jerks and machine vibration.
Built-in shock adjustment screw + met 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 or others.

UDAY HYDRAULICS

CHECK VALVES

UH-Z2S

Check Valve, Hydraulically pilot operated type UH-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
Max operating pressure bar: 315
Flow L/min Max: 60, 120, 300, 450
Type: UH-Z2S

UH-RVP

Check valve type UH-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: UH-RVP
Max operating pressure bar: 315

Flow L/min Max: 40, 70, 110, 160, 240, 440, 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

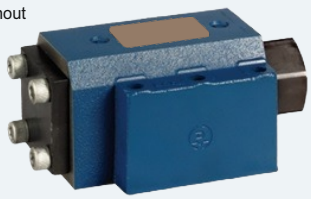
Rated Flow: 50, 125, 315, 500 l/min
Max. pressure: 250 kgf/cm²

UH-SV/SL

Hydraulically pilot operated check valve, Type UH-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, 30Type: UH-SV/SL
Max operating pressure (bar): 315
Max Flow (L/min): 150, 350, 550



UH-Z1S

Check valve, type UH-Z1SPreferably 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, 10Type: UH-Z1SMax operating pressure (bar): 315Flow L/min Max: 40, 100

UDAY HYDRAULICS

PRESSURE VALVES

UH-DBD

Pressure relief valve, direct operated, Type DBD

3 pressure adjustment element, optional
3 mounting types: cartridge connection, threaded connection, sub plate mounting

Size 6, 8, 10, 15, 20, 25, 30
Type UH-DBD
Working pressure bar 400, 630, 315
Flow L/min 50, 120, 120, 250, 350

UH-DBT/DBWT

Pressure remote relief valve, Type UH-DBT/DBWT

Remote control in long distance
3 pressure adjustment elements, optional
Mounting type: sub-plate mounting

Type UH-DBT/DBWT
Max. operating pressure bar 315
Max. Flow L/min 3

UH-DZ...DP

Direct operated sequence valve type UH-DZ.....DP

3 or 4 pressure adjustment element, optional
5 pressure ranges (in bar)25,75,150,210,315
check valve optional
For sub-plate mounting

Size 5, 6, 10
Type UH-DZ....DP
Max operating 315, 210
pressure bar
Flow L/min 30 60 80

UH-DZ

Pilot operated pressure sequence valve, type UH-DZ

4 pressure adjustment elements, optional
4 pressure ranges (in bar): 50, 100, 200, 315
Check valve optional
For sub-plate mounting

Size 10, 20, 30
Type UH-DZ
Max operating 315
pressure bar
Max flow l/min 200, 400, 600

UH-LC DB

2-way cartridge valve for relief control function LC...DB

Mounting type: As cartridge structure, encased in block With or without throttle element poppet valve, spool valve

Size 16 25 32 40 50 63
Type UH-LC...DB
Max operating 420
pressure bar
Flow L/min 250, 400,
600, 1000, 1600, 2500

UH-ZDB/Z2DB

Pilot operated pressure relief valve type UH-ZDB/Z2DB

Sandwich plate valve With one or two pressure relief cartridges
4 pressure ranges: 50, 100, 200, 315
3 pressure adjustment elements, optional
5 circuit options (size 6) or 6 circuit options (size 10)

Size 6, 10

Type UH-ZDB/Z2DB
Max operating pressure bar 315 315
Flow L/min max 60 100

UH-ZDR

Direct operated pressure reducing valve, Type UH-ZDR

Sandwich plate design
4 pressure range (in bar) 25, 75, 150, 2104
pressure adjustment element, optional
Pressure reduction in ports A, B or P
Check valve optional

Size 6, 10
Type UH-ZDR HD-ZDR
Max operating 210
pressure bar
Max flow L/min 30, 50

UDAY HYDRAULICS

PRESSURE VALVES

UH-DA/DAW

Pilot operated shut-o ffvalve, Type DA/DAW

Solenoid actuated unloading via a built on directional valve type DAW10% version, 17% version
4 pressure adjustment element optional
4 pressure ranges (in bar) 50, 100, 200, 315
For sub plate mounting

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

UH-DB....50/.....

Pilot operated pressure relief valve, Type UH-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 UH-DB....50/....Max. operating 350
pressure bar
Max flow L/min 250, 500, 650

UH-DB....K

Pilot operated pressure relief valve, cartridge connection type UH-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 UH-DB....K
Max operating 315
pressure bar
Max Flow L/min 50 120 250

UH-DBW....50/....

Pilot operated pressure relief valve, Type UH-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 UH-DBWMax operating 350
pressure bar
Max flow L/min 250, 500, 650

UH-DB3U10-30...30/...

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

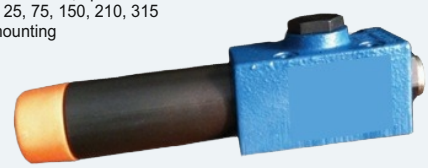
Solenoid operated control via mounted directional valve
2 pressure ranges (in bar) 100, 315bar
3 pressure adjustment elements, optional
3 mounting type: sub-plate mounting, threaded connection, manifold mounting

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

UH-DR....DP

Direct operated pressure reducing valve type UH-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 UH-DR....DP
Max operating 315
pressure bar
Max flow L/min 15 60 80

UH-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 UH-DR
Max. Operating 315
pressure bar
Max Flow L/min 150, 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

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.

UDAY HYDRAULICS

PROPORTIONAL VALVES

UH-4WR

Proportional Directional valves pilot operated
Type UH-4WRZ External pilot operated type UH-4WRH

Pilot (WRZ) and direction (WRH) proportional valve for controlling both direction and flow of a hydraulic fluid. Wet pin DC proportional solenoids. Spring centered control spool. Both valve and electronic control from one supplier.
Mounting type: Sub-plate mounting

Size - 10, 16, 25, 32
Type - UH-4WR
Max operating pressure bar 350
Max Flow L/min 270, 460, 877, 1600
Delay components <6 <6 <6 <6
Repeatability Precision <3 <3 <3 <3

UH-DBETR

Proportional pressure relief valve, Type UH-DBETR

Valve for electrical remote control of pressure, limiting in a system pressure
Proportional solenoid actuation with inductive position transducer
Both valve and electronic control from one supplier
Mounting type: Sub-plate mounting

Size - 6 10
Type - UH-DBETR
Max operating pressure bar 25 80
Max Flow L/min <10 30
Delay components <1 <3
Repeatability Precision <=+/1
Electronic control - VT-5003S30

UH-DRE/DREM

Proportional Directional valves pilot operated
Type HD-4WRZ External pilot operated type UH-4WRH

Pilot (WRZ) and direction (WRH) proportional valve for controlling both direction and flow of a hydraulic fluid. Wet pin DC proportional solenoids.
Spring centered control spool. Both valve and electronic control from one supplier.
Mounting type: Sub-plate mounting

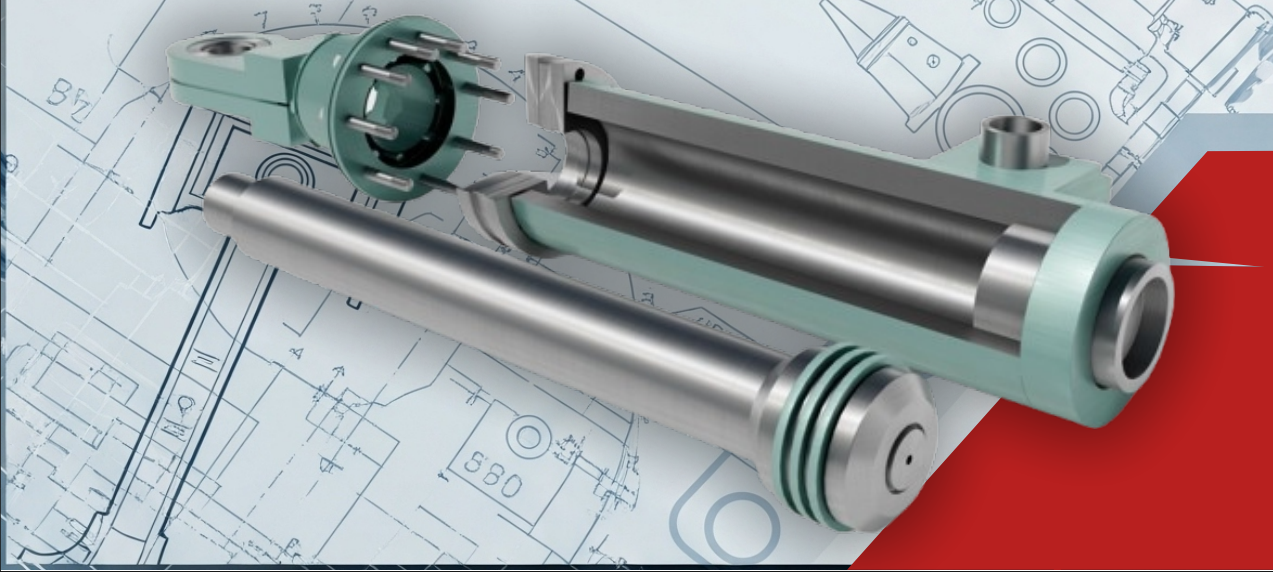
Size - 10 16 25 32
Type UH-4WR
Max operating pressure bar 350
Max Flow L/min 270 , 460, 877, 1600
Delay components <6 <6 <6 <6
Repeatability Precision <3 <3 <3 <3

UH-DBE/DBEM

Proportional pressure relief valve type UH-DBE/DBEM

In relation to the electrical command value the pressure can be limited and be infinitely set
Optional maximum pressure protecting adjustment
Both valve and electronic control from one supplier
Mounting type: Sub plate mounting, manifold mounting

Size - 10 , 20, 32
Type - UH-DB/DBEM
Max operating pressure bar 315
Max Flow L/min 200, 600, 400
Delay components <10 <10 <10



UDAY HYDRAULICS

DIRECTIONAL VALVES

UH-LC

2-way cartridge valve for directional control function LC
Mounting type: As cartridge structure, encased in block
2 area ratio: 2:1 = A(annulus area = 50%), 1.4:3.1 = B (annulus area = 7%)4 different springs
Valve poppet with or without damping nose

Size: 16, 25, 32, 40, 50, 63Type: UH-LC
Max operating pressure bar: 420
Flow L/min: 200, 550, 750, 1500, 2700, 3000

Series S4WE6

Solenoid operated directional valve with spool position monitoring (NEW!)The proximity sensor monitors the working position of spool accurately. Either PNP or NPN can be chosen for the sensor. Rapid response, high factor of safety, long service life. Compact structure makes it convenient for building up and wiring. The position of the proximity sensor is suitable for the double solenoid as well as for the single one.

23QDF

Ball type solenoid valve
Maximum Pressure: up to 315 Bar
The ball type electromagnetic valve is used to realize leak-free pilot control for two-way plug-in valve hydraulic system. Under the desired pressure drop and flow

Features:
It may also be used as control components for other executive devices. The valve core adopts high quality precision steel ball without axial length.
Size: 06, 10

Series LFV

2-way cartridge valves with spool position monitoring (NEW!)2-way cartridge valve with spool position monitoring. Provides feedback to indicate switch signal to sensor spool correct position, to secure equipment functioning under safety operation according to hydraulic circuit design and detection requirement. When inductive position switch feedbacks error signal, the equipment stop operating immediately to ensure operator safety

Size: LFV16, 25, 32, 45, 50.

DCT/DCG

Cam Operated Directional Control Valves
Size: 01, 03
Max Pressure: 210, 250 Bar
Max Flow: 30, 100 l/min

Prefill and Exhaust Valve

Sizes: 32 to 80 cc

Features: Seat type construction. Allows free flow f rom port A to port B. Flow from port B to port A can be had by applying pilot pressure to port X. Model with decompression feature opens in two stages progressively, allowing smooth and rapid exhaust of the compressed oil. Opening and closing time of the valve can be influenced by providing Throttle / Check Valves in the X port line.

UDAY HYDRAULICS

PROPORTIONAL VALVES

UH-2FRE

Proportional flow control valve 2-way version, type UH-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 UH-2FRE
Max operating pressure bar 210, 315
Max Flow L/min 25, 60, 160

UH-3DREP6

Proportional pressure reducing valve of 3-way design, Type UH-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 6Type
UH-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

UH-4WRA

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

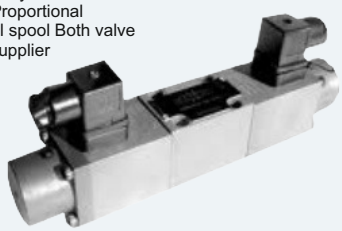
Proportional directional valves, Direct actuated, without electrical feedback, type HD-4WRA
Direct actuated proportional valve for controlling the direction and volume flow of the hydraulic fluid.
Wet pin DC proportional solenoids
Spring centered control spool
Both valve and electronic control from one supplier. For sub plate mounting:

Size 6, 10
Type UH-4WRA
Max operating pressure bar 315
Max Flow L/min 43, 95

UH-4WRE

Proportional Directional valves, Type UH-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
Max Flow L/min 80, 180

UH-4WRZ...7X

Proportional Directional valve

Pilot operated with integrated electronic

Size: 10, 16, 25, 32
Working pressure bar 315
Max Flow L/min 30Pilot operated operational directional valveFor sub-plate mountingThe control of direction and rate of flow Spring centered control spoolValve and proportional control electronics from a single source

UDAY HYDRAULICS

PROPORTIONAL VALVES

EBG 03/06

Electro proportional pressure relief valve

This valve is combined with a proportional electro-hydraulic pilot relief valve and a specially developed low-noise relief valve. Owing to special vent restrictor, this valve can make pressure control more precise and stable.

Size: 03, 06

EFBG-02/03/06/10

Proportional Pressure Relief & Flow Valves Pilot Operated

Pressure and flow is proportional to the input signal of the proportional solenoids. This proportional valve adopts two electrical loops to control pressure and flow of hydraulic system respectively. The power losses is very low and overall efficiency high, hence reduced power consumption. Using very small pressure drop to track load pressure and control the pump pressure. This relief and flow control valve is energy saving type that provide flow and pressure as per programmed for actuator/drive.It is an high efficiency and energy-saving valve.

UH-(Z)DBE and UH-(Z)DBEE

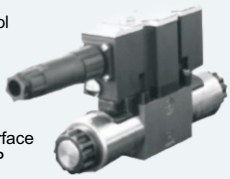
Proportional pressure relief Valve

Size: 6 Working
Pressure 315bar
Max. Flow 30L/min

Features:
Valve for limiting a system pressure
Actuation via proportional solenoids For sub-plate mounting or sandwich plate design Valve and control electronics from a single source
Types UH-DBEE and UH-ZDBEE with integrated control electronics:
Low example spread of the command value pressure characteristic curve
Independently adjustable up and down ramps

3DREPE6

Proportional pressure reducing valve of 3-way design

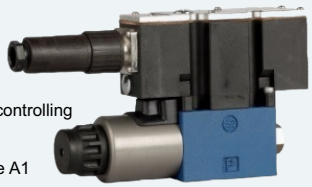


Features:
Directly controlled proportional valves for the control of the pressure and directional of flow Actuated via proportional solenoids with central thread and removable coil. Hand override, optional Spring centered control spool.

Type UH-3DREPE with integrated electronics, interface A1 External control electronics for type UH-3DREP Analogue amplifier type UH-VT-VSPA2-50-1X/... in Eurocard format. Digital amplifier type UH-VT-VSPD-1-1X/.. in Eurocard format Electrical amplifier type UH-VT-11118 of modular design. Valve and proportional control electronics from a single source.

UH-4WRA(E)6....2X

New Series Proportional Directional valve



Direct operated with integrated electronic
Working pressure bar 315
Max Flow L/min 30
For sub-plate mounting
Direct actuated proportional valve for controlling the direction and volume of a flow
Spring centered control spool
Integrated control electronics, interface A1 or F1 for type 4WRAE
Actuation by means of proportional solenoids with central thread and removable coil Control electronics for type 4WRA

UH-4WRE(E)...2X

New Series Proportional Directional valve

with integrated electronics and position feedback Size: 6 and 10
Working pressure bar 315
Flow L/min 180
Directly controlled proportional directional valve for the control of the direction and magnitude of a flow. For sub-plate mounting
Electrical position feedback
Spring centered control spool
Type 4WREE, integrated valve electronics with interface A1 or F1
Actuation is by proportional solenoids with central thread and removable coil
Valve and electronic control from one source

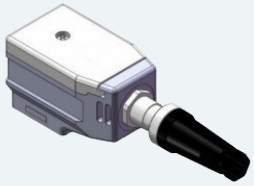
E-510 Series

Plug-in Proportional Valve Amplifier

Introduction: STM Microprocessor Chip, Embedded Digital Amplifier and Software with Intellectual Property, PWM negative current feedback. Shell is the standard Hirshmann DIN plug with convenient shape, less heat generated and IP65 protection. The maximum output current is 3.3A with current limiting protection.
Two LED indicators of input signal and output current status. Preset PWM frequency parameters, the built-in potentiometers can change bias, ramp and scale parameters.
The inputs are 0-10V, 0-20mA, 4-20mA or on-o ffinput.
Provide many options such as enable control, logic control, power limitation and so on.

VT-PPDA1

Plug-in Amplifier Connector for proportional valve



Component Series: 3X Operating voltage: 12...32V Features
Plug-in amplifiers are easy to operate and install
Digital proportional amplifier for mobile phone Bluetooth control Data can be monitored by mobile phone Users can configure parameters according to actual working conditions For proportional valves without position control

UDAY HYDRAULICS

FLOW CONTROL VALVES

UH-4WRZE10

Proportional Directional Valve

Valves of type 4WRZE10 are pilot operated 4-way directional valves with operation by proportional solenoids. They control the direction and magnitude of flow.

Features:
Pilot operated 2-stage proportional directional valves with integrated electronics (OBE)
Control the direction and magnitude of flow
Manual override
Spring-centered control spool

UH-4WRKE10,16,25,32,35

Proportional Directional Valve, Pilot Operated with Electrical position feedback type

Size 10 16 25 32 35
Flow L/min 170 460 870 1600 3000
Pilot Operated, with integrated electronics
Working Pressure bar 350
Valve for limiting a system pressure
Actuation via proportional solenoids
For sub-plate mounting or sandwich plate design Valve and control electronics from a single source Types UH-DBEE and UH-ZDBEE with integrated control electronics:

Low example spread of the command value
pressure characteristic curve
Independently adjustable up and down ramps

UH-2FRM

2-way flow control valve, Type UH-2FRM

For maintaining a continuous set flow, independent of pressure and temperature
Lock able key optional
External closing of the pressure compensator optional.
Check valve optional
A rectifier sandwich plate type Z4S should be fitted below to control a flow through the valve in both directions.
For sub plate mounting.

Size 5, 6, 10, 16
Type UH-2FRM 315
Max operating 210
Pressure bar
Flow L/min Max 15, 25, 50, 160

UH-2FRM6....31/

2-Way flow control valve, type UH-2FRM6.....31/

For maintaining a continuous set flow, independent of pressure and temperature Lockable, Key optional
External closing of the pressure compensator optional. Check valve optional
A rectifier sandwich plate type Z4S should be fitted below to control a flow through the valve in both directions. For sub plate mounting
Size 6
Type - 6 UH-2FRM-...31/
Max operating 315
Pressure bar
Flow L/min Max 32

UH-DV/DRV

Throttle check valve, type UH-DV/DRV

For setting and shut-ofl ffow of fluid
Throttle valve type DV and throttle check valve type DRV
2 mounting type sub-plate mounting
threaded connection

Size 6, 8, 10, 12, 16, 20, 25, 30, 40
Type - UH-DV/DRV
Max operating
pressure bar - 350
Flow L/min Max 20, 50, 60, 85, 180, 300

UH-FD

Check Q meter valve, Type UH-FD

Pilot operated check valve leak-free
2 mounting type: sub pl te mounnti , threaded c connection
By pass valve, free flow in opposite dirrection Optional
built-on secondary pressure relief valve
(only for valve with flange cconnection)
3 mounting type maniold moun nting
(cartridge valve),
sub plate mountin , SAE flange connections.

Size 12, 16, 25, 32,
Type - UH-FD
Max operating 315
Pressure bar Flow L/min Max 80, 200, 320, 560

UDAY HYDRAULICS

PROPORTIONAL VALVES

UH-4WR

type UH-4WRZ External pilot operated type UH-4WRH

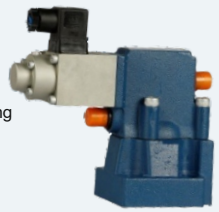
Pilot (WRZ) and direction (WRH) proportional valve for controlling both direction and flow of a hydraulic fluid. Wet pin DC proportional solenoids Spring centred control spool. Both valve and electronic control from one supplier
Mounting type: Sub-plate mounting

Size 10 16 25 32
Type UH-4WR
Max operating pressure bar 350 350 350 350
Max Flow L/min 270 460 877 1600
Delay components <6 <6 <6 <6
Repeatability Precision <3 <3 <3 <3

UH-DBE/DBEM

Proportional pressure relief valve type UH-DBE/DBEM

In relation to the electrical command value the pressure can be limited and be infinitely set
Optional maximum pressure protecting adjustment
Both valve and electronic control from one supplier
Mounting type sub plate mounting, manifold mounting



Size 10 30 20
Type UH-DB/DBEM
Max operating pressure bar 315
Max flow L/min 200, 600, 400
Delay components 1.5 with buffering 4.5 Without buffering
Repeatability Precision +/-2Electronic control VT-2000S 40

UH-DBETR

Proportional pressure relief valve, Type UH-DBETR

Valve for electrical remote control of pressure, limiting in a system pressure Proportional solenoid actuation with inductive position transducer
Both valve and electronic control from one supplier
Mounting type: Sub-plate mounting

Size 6
Type UH-DBETR
Max operating pressure bar 25 80 180 315
Max Flow L/min 10 3 3 2
Delay components <1
Repeatability Precision <0.5
Electronic control VT-5033S30

UH-DRE/DREM

Proportional pressure reducing valve type UH-DRE/DREM

Used for the reduction of a working pressure
Optional maximum pressure protecting adjustment.
Both valve and electronic control from one supplier
Mounting type sub: plate mounting, manifold mounting

Size 10 20 30
Type UH-3DREP6
Max operating pressure bar 315 315 315
Max. Flow L/min 200 400 600
Delay components 1.5 with buffering 4.5 p. max without buffering
Repeatability Precision +/-2 +/-2 +/-2
Electronic control VT-2000S 40

4WRPEH6/10

Servo Solenoid Proportional Valve

Max. Working Pressure: 315 bar
Nominal flow rate 40lpm and 100lpm, max.(P = 70 bar)With control spool and sleeve in servo quality Operated on one side, 4/4-fail-safe position in switched o ff state. Electric position feedback and integrate delectronics (OBE), calibrated in the factory. Electrical connection 6P+PE

Signal input differential amplifier with interface"A1" +/-10V or interface "F1" 4....20mA(Rsh = 200Ω)Use for electro-hydraulic controls in production andtesting systems.

DBETX.....1XT

Proportional pressure relief valve

NG6Max.
Pressure 315 bar Nominal flow 1 lpm

Features:Direct operated valves for the limiting system pressure. Adjustable by means of the solenoid current, see performance curve, Technical data and selected valves electronics. Pressure limitation to a safe level even with electric failure (solenoid current I > Imax.)
For subplate attachment, mounting hole configuration to ISO4401External trigger electronics with ramps and value calibration (order separately).

VT-DFP

Pilot Control Valve, 24VDC, 350 bar

Features:
Pilot valve for the pressure and flow control system SYDFE
In conjunction with amplifier VT5041, it controls the swash-plate angle of the pump in either closed loop pressure or flow control
Component series 2XThis valve is to be considered a part and not a complete control
Standard spool design
Radial to the pump axis

EDG-01

Proportional Pressure Relief And Flow Valves Pilot Operated

This valve consists of a small DC solenoid and a direct-acting relief valve. It serves as a pilot valve for a low flow rate hydraulic system or a proportional electro-hydraulic control valve and controls the pressure in proportion to the input current. Note that this valve is used in conjunction with the applicable power amplifier.

UDAY HYDRAULICS

ACCESSORIES

ET-02

Check valve manufacturer ET-02 lift valve

Flow: 20L/min
Max Pressure: 210bar
Features:
Spool position: normally close;
Used in hydraulic lifting platform under solenoid valve voltage of AC220V, AC110V or DC24V, the whole lift process can be done stable and the rate of the decline will not be influenced by the load.

OSPT

Hydraulic Steering Unit

Flow: 40lpm
Max Pressure: 175 bar
Displacement: 50 to 400cc/rev
Features: High efficiency, long service life, compact and convenient low pressure drops & steering torque ports available to DIN, ISO or SAE Size 50 to 400cc/rev available with built-in value functions shock, inlet check suction and relief valves, according to European & US standards, extensively used in forklift, tractor, combines and loaders.

UDAY HYDRAULICS

FLOW CONTROL VALVES

UH-Z2FS

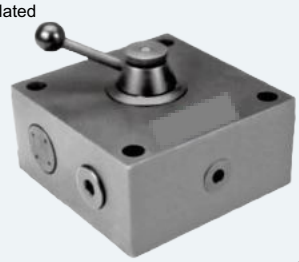
Double throttle check valve, Type UH-Z2FS

Double throttle check valve, Type UH-Z2FS
For limiting the main or pilot fluid flow of
2 actuator connections
For meter-in or meter-out control
Sandwich plate valve

Size - 6, 10, 16, 22
Type - UH-Z2FS
Max operarting pressure bar 315
Max. Flow L/min 15, 50, 125, 200

LFA

Flow control valve
Size: NG30
Max. Pressure upto 210 Bar
Max. Flow upto 300L/min
Features:
It consist of pressure compensator and throttle valve
Flow rate is adjusted by the handle regulated with in a range of 120
The pressure relief valve can be with or without stroke regulator.



UH-AF6E

Pressure gauge-Isolator valve type UH-AF6E

3-way longitudinal valve
Push button operated
Mounting type: Sub-plate mounting,
Threaded connection

Size 6
Type - UH-AF6E
Max operating pressure bar 315

WMAP

Pressure switches with fixed differential

Max. Pressure upto 350 Bar

Pressure switches are designed to operated in hydraulics systems with hydraulic mineral oil or synthetic fluid having similar lubricating characteristics.

UH-HED1

Hydro-electric pressure switch, type UH-HED1

For changing the pressure signal to electrical signal
With of without drain port, optional
With of without control lamp

Max operating 500 pressure bar
Type UH-HED1

UH-HED4/HED8

Hydro-electric pressure switch type UH-HED4/HED8

For changing the pressure signal to electrical signal
3 Max. setting pressures
Mounting type: Sub plate mounting, threaded connection, as vertical stacking element

Type UH-HED4/HED8
Max operating 350 pressure bar

UDAY HYDRAULICS

SPARES & SEAL KITS

Rotary group and spares for A2F

Rotary group and spares for A2FO

Rotary cartridge for Vane Pumps T6C/D/E and 20V/25V/30V/35V

Rotary group and spares for A10VO/VSO

UDAY HYDRAULICS

AIR COOLERS

Aj0510

AC/DC fan motor series

Rate of flow 10L/min
Max Working Pressure 15 Bar Fan Power 48 Bar Fan Voltage 220V~ 240V
Used in: Very suitable for machine tools,
special purpose machine tools and
small power packs.

UDAY HYDRAULICS

MODULAR VALVES

ZRP/ZRA/ZRB

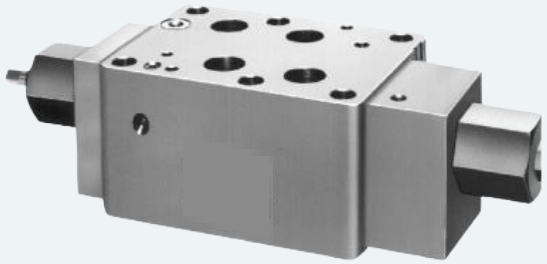
Pressure Reducing Modular Valves

Size: NG16, NG22, NG32
Max. operating pressure up to 350 bar
Max. flow up to 800 L/min.

ZSW/ZSA/ZSB

Throttle check Modular Valves

"First time in India" (from the red burst graphic)
Size: NG16, NG22, NG32
Max. operating pressure up to 350 bar
Max. flow up to 800 L/min.



ZERP/ZERA/ZERB

Reducing modular proportional valve

Sizes: 01, 03
Rated Flow: 30, 70 L/min
Max. Pressure: 250 Bar

Introduction:
The valve combines the advantages of a superposition valve and a proportional valve is easy to install and can the secondary side pressure in proportion to the input current of the proportional electromagnet.

ZPW/ZPA/ZPB

Pilot operated check Modular Valves

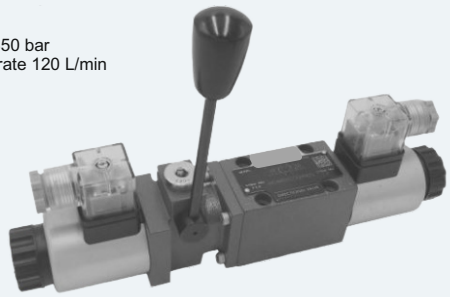
Size: NG16, NG22, NG32
Max. operating pressure up to 350 bar
Max. flow up to 800 L/min.

UDAY HYDRAULICS

WEMM

Solenoid Operated Directional Valve with Emergency Handle

Size 6 to 10Max.
working pressure 350 bar
Max. working flow rate 120 L/min



1RC

Radial Piston Pump
Max. Pressure up to 350 Bar

Features:
Radial piston arrangement, with 3, 5 or 7 pumping elements.-Oil immersed or external mounting type.
Face mounting, Valve controlled, Fixed delivery.
Bi-directional rotation of shaft.
Available with extension shaft for through drive.
With extension bracket assembly for coupling
a low pressure pump having standard flange

PUMPING UNIT

Motor plus Pump Assembly(Variable Vane Pump / Gear Pump)

Motor Size: 0.5HP, 1HP, 2HP, 3HP, 5HP, 7.5 HP, 10HPVariable Vane Pump Size: 8 cc & 16 cc

Features:
High efficiency - Combining high efficient motor (complies with IE3 requirement) can save 20% more energy compared to normal motors and pumps
Low temperature
High volumetric efficiency and low leakage will cause less heat generation and improves the accuracy.
Space-saving, Long Working life, Low noise

AD Series

Diaphragm Accumulators

Sizes: 0.075Ltr~3.5Ltrs
Max. Working pressure up to 330 Bar

Ab330 Series

Bladder Accumulators

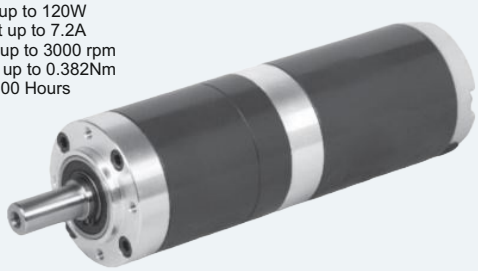
Operating Pressure: 315Bar
Nominal Volume: 4~50L

Bladder accumulators are a very versatile and cost effective option for numerous types of hydraulic systems involving energy storage, shock absorption, pulsation dampening, leakage loss compensation and volume compensation. They are a first choice for a great variety of general applications and have the widest range of standard sizes and model options. Bladder accumulators also have very quick shock response characteristics in sizes much larger than diaphragm accumulators.

PN Series

Brush Less Motor

Voltage: 12, 24V
Rated Power up to 120W
Rated Current up to 7.2A
Rated Speed up to 3000 rpm
Rated Torque up to 0.382Nm
Motor Life: 2000 Hours



UDAY HYDRAULICS

HYDRAULIC VALVES

4WE 6,10

Solenoid Operated Direction Control Valve

ZDR6, 10

Pressure Reducing Valve

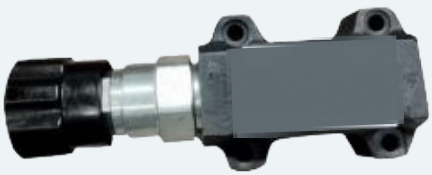
Displacement: 50, 80, 100, 125, 160, 200, 250, 315, 400
Maximum Pressure drop continuous: 125 bar
Maximum flow continuous: 60 lpm
Maximum Torque continuous up to 334 Nm

Z2S6, 10

Pilot Operated Check Valve

DPRH 6, 10

Direct Operated Pressure Relief valve



Z2FS6, 10

Double throttle and check valves

1PS10/1PS

Pressure Switch

UDAY HYDRAULICS

Proportional Valve

D1FP & D3FP

Direct-acting high-frequency response servo directional valve electrical position feedback and integrated amplifier

Size: NG6 & Ng10
Maximum pressure: 350 Bar
Rated Flow:NG6 : 3~40 L/min
NG10: 50~100l/min
(Δp=70bar)

D*1FP

Pilot-operated three-position four-way servo directional valve VCD voice coil motor driver With electrical position feedback with integrated amplifier

Sizes: 10~27
Maximum pressure: 350bar
Rated flow: 60~600L/min

UDAY HYDRAULICS

Your Trusted Partner in Hydraulic Solutions.

UDAY HYDRAULICS

DEALS IN
REXROTH, ATOS, MOOG, PARKER, YUKEN,
VICKERS, HYDRAULIC PUMPS & VALVE ETC.

ADDRESS:
KHEVAT NO. 726/3/878/4
DIVIDING ROAD, NEAR [FIT], SECTOR 57-58
BALLABGARH, FARIDABAD, HARYANA, 121004

CONTACT PERSON
RAJEEV RAWAT (M.D)

CONTACT DETAILS
+91 7217834397, +91 8800459957
Mail-ID: udayhydraulics@gmail.com