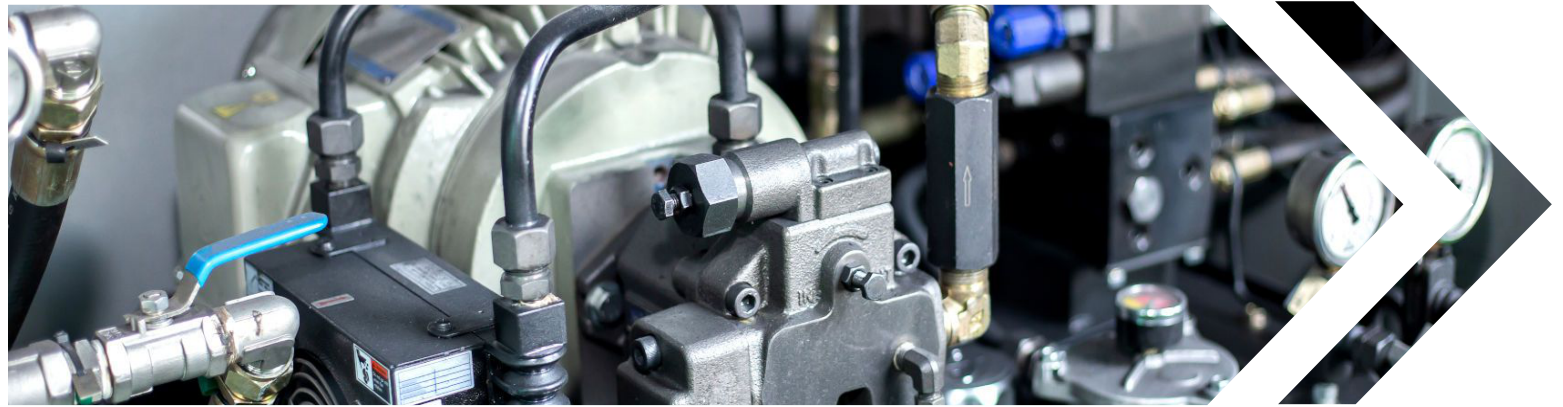




THM
HYDRAULICS



Industrial
Hydraulics

Mobile
Hydraulics

Servo
Hydraulics

Hydraulic
Power Packs

Hydraulic
Cylinders

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About Us

Our journey began in 1994, when **Tania Hydraulic Machines (THM)** was founded in **Ludhiana, India**. Built on a foundation of innovation, quality, and customer trust, THM rapidly established itself as a leading name in the hydraulic industry.

In **2006**, THM joined forces with **Beijing Huade**, one of China's most respected hydraulic manufacturers, forming **THM Huade Hydraulics Pvt. Ltd.** This collaboration brought together world-class technology, engineering excellence, and decades of combined experience to deliver cutting-edge hydraulic solutions.


Today, we operate from **five world-class facilities** across India and China:

- **Ludhiana (India):** Specializing in hydraulic cylinders and power units.
- **Belgaum (India):** Focused on manifolds, valves, cartridges, and power units.
- **Beijing (China):** Home to three advanced manufacturing plants — one dedicated to piston pumps and motors, another producing proportional valves for industrial and mobile applications, and a third focused on precision casting.
- Additionally, a **fourth plant in China** is exclusively engaged in the production of hydraulic power units.

With a strong global presence and a customer-centric approach, THM Huade Hydraulics Pvt. Ltd. serves a diverse range of industries, including:

Mobile & Construction Equipment, Machine Tools, Plastic Machinery, Mining, Metallurgy, Agricultural Equipment, Marine Applications, and Industrial Systems.

Our commitment to quality, reliability, and innovation drives everything we do. At THM Huade Hydraulics, we continue to engineer solutions that power industries, enhance performance, and shape the future of hydraulics.



Hydraulic Components & Control Systems

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THM
HYDRAULICS

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

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.

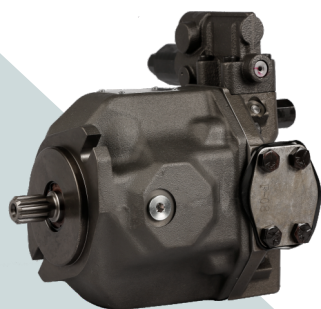
Features:

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 for the displacements offered, permit sizes to be matched to practically every application

A10V(S)O SERIES 31

Variable displacement Axial Piston Pump

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



Note:

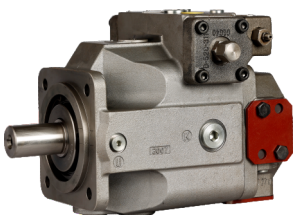
Axial piston pump, swash plate design for hydrostatic open circuit system used in varied medium duty application in industrial & mobile machines.

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

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 continuous 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 SERIES 52/53

Variable Displacement Axial Piston Pump, Open Circuit



Features:

- Variable flow via swashplate angle and drive speed.
- Compact & lightweight with low noise.
- High speed and long service life.
- Excellent suction performance.
- Smart control: pressure, power & angle (electro-hydraulic).

52 Series Size: 10, 28, 45, 60, 85 cc/rev.

53 Series Size: 18, 28, 45, 63, 72, 85, 100 cc/rev.

Nominal/Maximum Pressure: 250/315 bar



..... in service more than a decade!



OPEN CIRCUIT AXIAL PISTON PUMPS

A17F0

Bent Axis Fixed Displacement Axial Piston Pump



Size: 23, 32, 45, 63, 80, 107 cc/rev.

Open Circuit

Nominal pressure: 300 bar

Maximum pressure: 350 bar

High-pressure pump for use in commercial vehicles

Features:

- Flange and shaft designed for direct mounting on the power take-off of commercial vehicles
- Weight-optimized for PTO mounting
- No case drain line necessary
- Reduced noise
- Straight forward adjustment of direction of drive
- Excellent suction performance
- High total efficiency
- Long Service life

S2VP(M)

Variable Displacement Axial Piston Pump With Electrical two point Control



Displacement: 28 to 100cc/rev

Max. operating pressure: 280 bar

Features:

- The capacity of the pump is in proportion to its rotating speed and displacement; the step less adjustment of displacement can be materialized by regulating the swivel angle of its swash plate.
- There are many variable control forms, Fast control response;
- Allows for continuous operating pressures up to 280 Bar;
- There are two shell discharge ports;
- High power/weight ratio;
- The drive shaft is able to bear the axial and radial load;
- With through-shaft structure, able to form combination pump;

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:

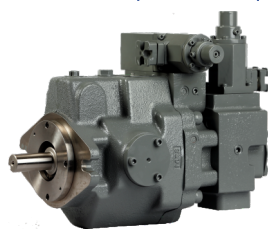
Two variable pumps in a common housing, the splitter box, an SAE flange for direct mounting on to the prime mover and the control device usually summation HP control. Flow is proportional to speed by change the swivel angle.

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.

"A" Series

Variable displacement piston pump



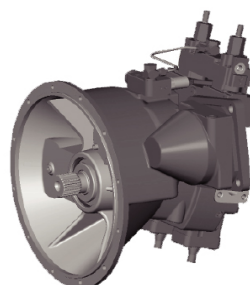
Displacement: 16, 22, 37, 45, 56, 64, 70, 80, 100, 120, 145, 160 cc/rev

Working pressure up to 210 Bar

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).

A8VO

Axial Piston Variable Double Pump, Open Circuit



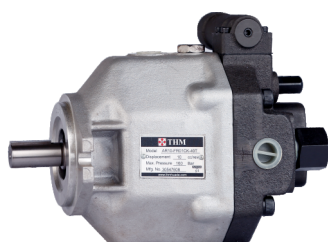
Displacement: 107, 140 cc/rev
Maximum Pressure up to 400 Bar

Features:

- Parallel structure with two sets of cone plunger rotating components
- The displacement can be adjusted steplessly between zero displacement and maximum displacement
- The pump can be mounted directly on the engine's flywheel housing
- Built-in auxiliary pump and two circuits share one suction port Split power control
- Can realize a variety of control methods and adjustment functions
- With built-in auxiliary relief valve, can be equipped with electromagnetic proportional pressure reducing valve
- The power output interface can be installed with axial piston pumps and gear pumps

AR SERIES

Axial Piston Pump



Sizes : 10, 16, 22 cc/rev

Nominal pressure: 165 bar

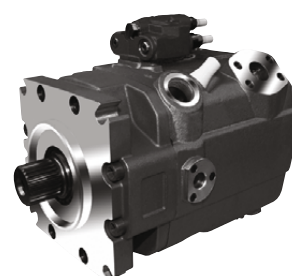
Max. Pressure: 210 bar

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.

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



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OPEN CIRCUIT AXIAL PISTON PUMPS

CY SERIES

Fixed-displacement pump/motor



Size 1.5.....400

Series 14-18

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.

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

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.

HY SERIES

Variable displacement axial piston pump



Displacement: 10~320 ml/r

Max. pressure up to 400 bar

Features:

The HY14-18 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.

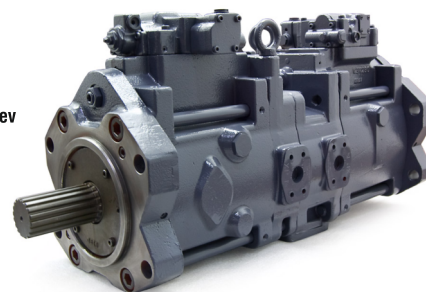
K3V Series

Axial Piston Pump

Open circuit

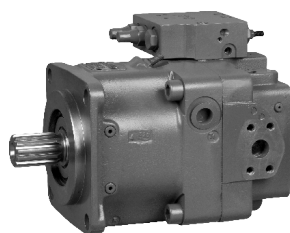
Displacement: 65~280 cm³/rev

Rated Pressure: 340 Bar



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.

K7V Series

Axial Piston Pump

Open circuit

Displacement: 65~140 cm³/rev

Rated Pressure: 350 Bar



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.

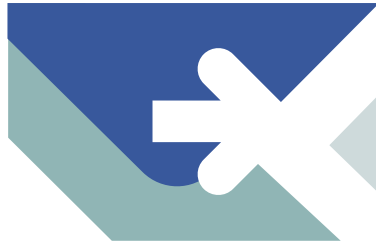
-Face mounting, Valve controlled, Fixed delivery.

-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

A11VO Series hydraulic pump
For vehicle, high pressure

350 Bar



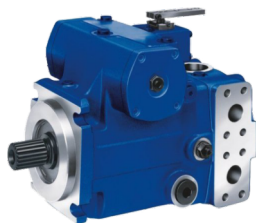
HYDRAULIC PUMPS

CLOSED CIRCUIT AXIAL PISTON PUMPS



A4VTG

Variable Displacement Axial Piston Pump



Size: 71,90

Note:

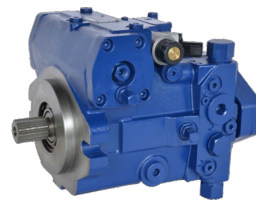
Axial piston pump, swash plate design for hydrostatic close loop circuit system used in varied medium duty application in industrial & mobile machines.

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.

A4VG

Variable displacement axial piston pump



Displacement: 40~125 ml/r

Flow: 160~356 l/min

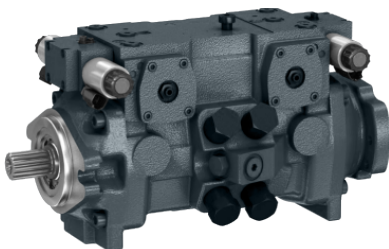
Max. pressure up to 450 bar

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.

A22VG

Axial Piston Variable Double Pump



For Closed Circuit

Size: 45cc/rev

Nominal Pressure: 380 bar

Maximum pressure: 420 bar

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

HAND PUMP



Foot Mounted Hand Pump

UID (Displacement):

T014511632(20cc)

T014511633 (50cc)

T014511634 (70cc)

Maximum Pressure range 250-300 Bar

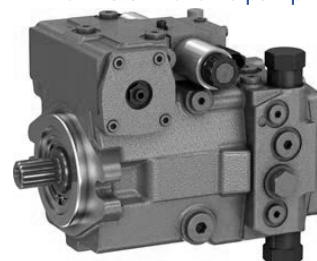
Tank Mounted Hand Pump

Displacement): 6, 12, 25, 45 cc

Maximum Pressure up to 500 Bar

A10VG

Axial Piston Variable pump



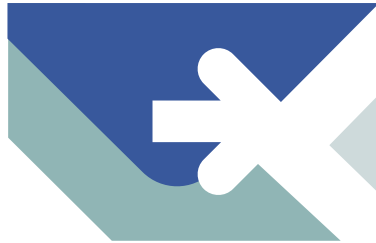
Medium pressure pump for closed-circuit applications

Size 18 ... 63

Nominal pressure 300 bar

Maximum pressure 350 bar

Closed circuit



HYDRAULIC MOTORS

PLUG-IN AXIAL PISTON MOTORS

A10FE

Axial piston plug-in motor



Size: 10, 11, 14, 16, 18, 23, 28, 37, 45, 58, 63 cc/rev.
Open & Closed Circuit
Nominal pressure: 280 bar
Maximum pressure: 350 bar

- Features:**
- The output speed is proportional to the inlet flow
 - The output torque increases with the pressure differential between the high and low pressure sides
 - For use in mobile and industrial applications
 - Long service life
 - High permissible output speeds
 - Well proven A10-rotary group technology
 - High power to weight ratio – compact design
 - Plug-in version for space saving installation
 - Low noise level
 - Mechanical and hydraulic connections also acc. to SAE standards
 - Speed sensor optional
 - Integrated anti cavitation valve optional, i.e. for fan drives

TKC Series

Axial piston Variable Displacement motor



| | | | |
|-------------------------|-----|-----|-----|
| Size: | 25 | 38 | 45 |
| Nominal pressure | 210 | 210 | 175 |
| Maximum pressure | 415 | 415 | 350 |

- Features:**
- Swash plate axial piston motor for open or close circuit.
 - Cartridge design, compact installation space, convenient and wheel installed applications.
 - Integration of two variable motor, servo variable piston, can set the minimum displacement of the motor.
 - Motor oil mouth concentrate in a side, easy to install and oil circuit layout.
 - High cliometric efficiency

A10VE

Axial piston plug-in motor



Size: 28, 45, 63 cc/rev.
Open & Closed Circuit
Nominal pressure: 280 bar
Maximum pressure: 350 bar

- Features:**
- Dual displacement motor, axial piston swashplate design, for hydrostatic transmissions in open and closed circuits
 - Output speed is directly proportional to inlet flow and inversely proportional to motor displacement
 - Output torque increases proportional to the pressure difference between high and low pressure sides and increasing displacement
 - Heavy duty bearings for long service life
 - High permissible output speed
 - Well proven A10-rotary unit technology
 - External control pressure supply possible
 - Minimum displacement can be set externally
 - Special 2-bolt mounting flange on A10VE

A6VE

Variable displacement plug-in motor A6VE



Size: 28, 55, 80, 107, 160 cc/rev.
Nominal Pressure: 400 Bar
Maximum Pressure: 450 Bar
Open and Closed Circuits

- 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.

A2FE

Fixed-displacement plug-in motor A2FE



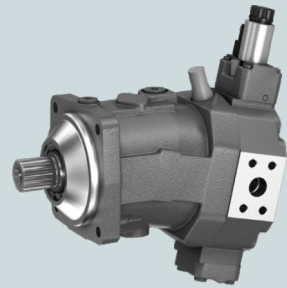
Size: 28 to 180 cc/rev.
Nominal Pressure: 400 Bar
Maximum Pressure: 450 Bar
Open and Closed Circuits

- 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.



A6VM

Variable Axial Piston Motor



Size: 28, 55, 80, 107, 140, 160, 200 cc/rev.
Nominal Pressure: 400 Bar
Maximum Pressure: 450 Bar
Open and Closed Circuits

- 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.

BVD

Counterbalance valve



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



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HYDRAULIC AXIAL PISTON MOTORS

TS-F-11

Bent Axis Fixed Displacement Motor / Pump



F11 is a bent-axis, fixed displacement motor/pump. It can be used in numerous applications in both open and closed loop circuits.

F11 Features:

- Max intermittent pressure up to 420 bar and continuous operating pressure up to 350 bar
- Thanks to low weight pistons and a compact design of the rotating parts, the F11 tolerates very high speeds, up to 14000 rpm
- CETOP, ISO, SAW and SAE versions

Displacement: 5~19 cc/rev

Max intermittent pressure up to 420 bar
Continuous operating pressure up to 350 bar

TS-F-12

Bent Axis Fixed Displacement Motor / Pump



F12 is a bent-axis, fixed displacement motor/pump. It can be used in numerous applications in both open and closed loop circuits.

F12 Features:

- Max intermittent pressure up to 500 bar and Continuous operating pressure up to 450 bar
- The 7 or 9 piston design provides high start-up torque and smooth motor operation
- ISO, Cartridge, SAW and SAE versions

Displacement: 5~19 cc/rev

Max intermittent pressure up to 420 bar
Continuous operating pressure up to 350 bar

A10FM

Axial piston variable motor



Features:

- The output speed is proportional to the inlet flow
- The output torque increases with the pressure differential between the high and low pressure sides
- For use in mobile and industrial applications
- Long service life
- High permissible output speeds
- Well proven A10-rotary group technology
- High power to weight ratio – compact design
- Plug-in version for space saving installation
- Low noise level
- Mechanical and hydraulic connections also acc. to SAE standards
- Speed sensor optional
- Integrated anti cavitation valve optional, i.e. for fan drives

Size: 23, 28, 37, 45, 58, 63 cc/rev.
Open & Closed Circuit
Nominal pressure: 280 bar
Maximum pressure: 350 bar

A2FM

Fixed displacement Bent Axis Piston Motor



Features:

- Fixed motor with axial tapered piston rotary group of bent axis design, for hydrostatic drives in open and closed circuits
- For use in mobile and stationary application areas
- The output speed is dependent on the flow of the pump and the displacement of the motor.
- The output torque increases with the pressure differential between the high and low pressure sides and with increasing displacement.
- Careful selection of the displacements offered, permit sizes to be matched to practically every application
- High power density
- Compact design
- High overall efficiency
- Good starting characteristics
- Economical conception
- One piece pistons with piston rings

Size: 5
Nominal/Maximum pressure: 315/350 Bar
Size: 10 to 180
Nominal/Maximum pressure: 400/450 Bar
Open & Closed Circuits

A10VM

Axial piston variable motor



Features:

- Dual displacement motor, axial piston swashplate design, for hydrostatic transmissions in open and closed circuits
- Output speed is directly proportional to inlet flow and inversely proportional to motor displacement
- Output torque increases proportional to the pressure difference between high and low pressure sides and increasing displacement
- Heavy duty bearings for long service life
- High permissible output speed
- Well proven A10-rotary unit technology
- External control pressure supply possible
- Minimum displacement can be set externally
- Special 2-bolt mounting flange on A10VE

Size: 28, 45, 63, 85 cc/rev.
Open & Closed Circuit
Nominal pressure: 280 bar
Maximum pressure: 350 bar

A6V

Variable displacement motor A6V



Note:

Variable displacement motor A6V is design for hydrostatic drive. The displacement of infinitely variable in the range $V_{max}/V_{min} = 3.47$

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

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)

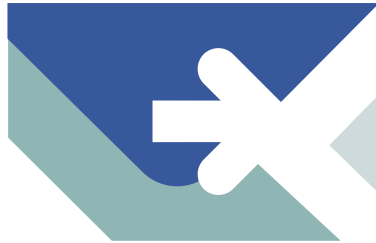
TDDG350: 14611 to 22650 Nm

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





HYDRAULIC MOTORS

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 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 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 continuous up to 46 Nm

BMSY(OMS/BM3Y)



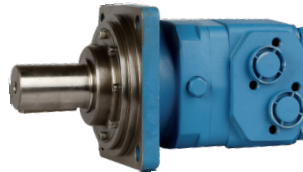
Displacement : 80, 100, 125, 160, 200, 250, 315, 400
Maximum Pressure drop continuous 225 bar maximum flow continuous 75 lpm
Maximum Torque continuous up to 560Nm

BMT (OMT/BM4U)



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

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 continuous 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 continuous 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 continuous up to 465 Nm

BMRYB

Dual Shaft Hydraulic Orbital Motor

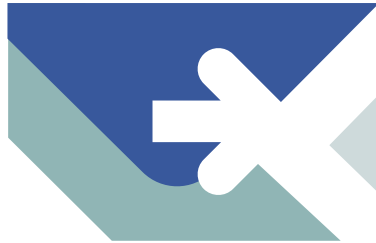


Sizes: 80-400 cc/rev
Max. flow up to 75 l/min
Max. pressure up to 225 bar
Max. Torque up to 680 Nm
Max. output power up to 25 kW

BME Series Hydraulic Orbital Motor

Displacement: 125, 160, 200, 230, 250, 300, 350, 375, 475, 540, 750 mL/r
Continuous Flow up to 80 L/min
Continuous Pressure up to 205 Bar
Maximum Pressure up to 240 Bar





VANE PUMPS

PV2R1,2,3 Fixed 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.



PV2R5 Fixed Vane Pump (Large Flow)



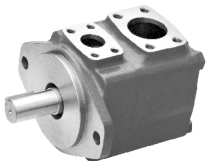
Sizes : 230, 272, 320, 348 cc/rev

Max pressure: 120 bar

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

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

VDN

Variable Volume Vane Pump

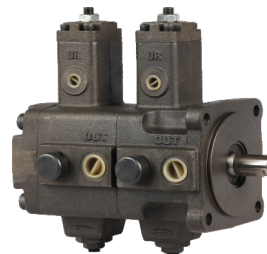


Size: 8, 16 cm³/rev
Max. Pressure: 80Bar

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.

TVCM...8/12/15/20/30/40/50

Variable Vane pump, Direct Operated



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

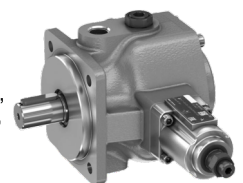


Features:
Good efficiency operation with minimum pressure loss, very low noise during operation, compact and simple design, space saving sturdy structure for high efficiency and long service life, adjustable displacement volumes, highly preferred for CNC and special purpose machines.

Variable Vane Pump, Direct Controlled

Models: T106100605(25 to 50Bar),
T106100610(50 to 100Bar)
Displacement: 10cc/rev
Pressure ranges:
25 to 50Bar and 50 to 100Bar

Models: T106140604(15 to 40Bar),
T106140607(40 to 70Bar),
Displacement: 14cc/rev
Pressure ranges:
15 to 40 Bar and 40 to 70 Bar



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.

PUMPING UNIT

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



Motor Size: 0.5HP, 1HP, 2HP, 3HP, 5HP, 7.5HP, 10HP
Variable 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

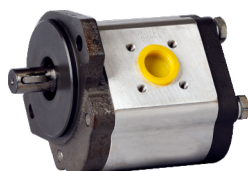


THM
HYDRAULICS

HIGH PRESSURE GEAR PUMPS

TPF2G4-M

High Pressure Gear Pump



Size: 80 ,90, 100

Features:

Unique sealing design to operate up to 250 bar continuous, special alloy bush with unique lock design for maximum rigidity modified gear tooth to lower operating torque, 100% testing on computerized test bench, long service life, pump in "V" option available to operate up to -10 degree C and 120 degree C, completely manufactured on CNC machines, threaded and flange port available, covers applications for high pressures, substituting costly piston pump application, new principal of hydraulic gap compensation.

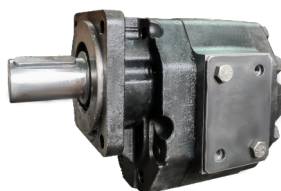
CBB



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.

CBZTG3

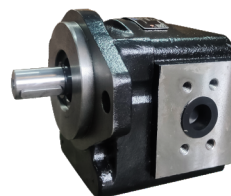
Cast Iron Gear Pump



Displacement: 125, 140, 150, 160, 170, 180, 200 mL/r
Operating pressure: 160 Bar
Max. Pressure: 200 bar
Rated Speed: 2000r/min
Speed range: 600 to 2800 r/min

CBGTAL

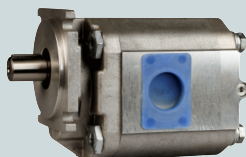
Cast Iron Gear Pump



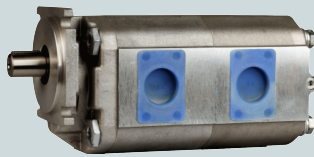
Displacement: 26, 32, 36, 40, 50, 55, 63
Operating pressure 200 Bar
Max. Pressure 250 bar
Minimum speed: 800 r/min
Rated speed: 2000 r/min
Maximum speed: 3000 r/min

CBKP

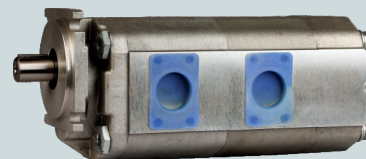
Single, Double & Triple Gear Pump with roller bearings



CBKP1
Size: 32cc to 100cc
Max Pressure: 250 Bar



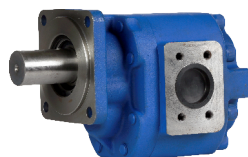
CBKP2
First pump : 40cc to 100cc
Second pump : 32cc to 100cc
Max Pressure: 250 Bar



CBKP3
First pump : 50cc to 100cc
Second pump : 32cc to 100cc
Third pump: 32cc to 100cc
Max Pressure: 250 Bar

TP7600-F***P

Cast Iron Gear 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.

CG Series

Gear Pump Group 1



Displacement: 0.8, 1.1, 1.3, 1.6, 1.8, 2.1, 2.7, 3.2, 3.7, 4.2, 4.8, 5.8, 7.0, 8.0 cc/rev
Maximum continuous pressure up to 250 Bar
Maximum Peak pressure up to 270 Bar



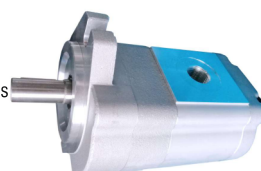
TS-CMF-F3

Gear Motor

Displacement: 04~25 mL/r
Rated Pressure: 200 Bar
Maximum Pressure: 250 Bar

Introduction:

The housing of TS-CMFF3 series gear motor is made of high-strength aluminum alloy, and the internal structure adopts many advanced technologies such as axial clearance floating compensation, radial balance, DU self-lubrication, etc. This series of motors has the advantages of high working pressure, high volumetric efficiency, small starting torque, long life, etc. and is used in lifting machinery, road construction machinery, environmental protection machinery, petroleum machinery and other industries.





HYDRAULIC **STEERING UNIT & ACCESSORIES**



- TVV Series Hydraulic Steering Control Units (SCU)
- TVV1, TVV2, TVV3 Series Hydraulic Steering Control Units (SCU)
- TVV1, TVV3 Series Hydraulic Steering Units (SCU) with Super Displacement
- TVV5 Series Hydraulic Steering Control Units (SCU)
- Hydraulic Steering Units T0 Series
- T01-1,2,3 Series Hydraulic Steering Control Units (SCU)
- T01S-1,2,4 Series Hydraulic Steering Control Units (SCU)
- T01(S)-5(T)(TE)(L)(E)(TX) Series Hydraulic Steering Control Units(SCU)
- T02-1,2,3 Series Hydraulic Steering Control Units (SCU)
- T02S-1,2,4 Series Hydraulic Steering Control Units (SCU)
- T02(S)-5(T)(TE)(L)(E) Series Hydraulic Steering Control Units(SCU)
- T03-1 Series Hydraulic Steering Control Units(SCU)
- T03S-4 Series Hydraulic Steering Control Units(SCU)
- T09 Series Hydraulic Steering Control Units (SCU)
- TLF Type Coaxial Flow Amplifying Steering Units
- TLF1 Type Coaxial Flow Amplifying Steering Units
- TLF2 Type Flow Amplifying Steering Units
- TNF Type Torque Amplifiers
- FK Type Combinatory Valve Blocks
- FLD Type Flow Divider Valves
- DYXL,YXL Type Priority Valves
- PV Type Priority Valves
- LFF Type Flow Amplifying Valves
- LFA, LFB Type Flow Amplifiers
- FZ Type Steering Columns



Scan to access detailed product datasheet



THM
HYDRAULICS

CARTRIDGE VALVES

***"Advanced Hydraulic Cartridges for
Mobile and Industrial Systems: Powering Performance"***



CARTRIDGE VALVE TYPES

Pressure Control

Proportional Control

Flow Control

Counterbalance

Directional Control (Solenoid Operated)

Pilot Check Valve



Scan to access detailed product datasheet



ABER

Manufacturing Hydraulic Excellence since 1972



MADE IN
PORTUGAL
EUROPE



EXAMPLE OF APPLICATIONS





THM
HYDRAULICS

ABER HYDRAULIC PUMPS AXIAL PISTON PUMPS

VDP Series

Variable 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

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 allow 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: 1650rpm

Max Rotation Speed: 2300 rpm

Bent Axis Piston Pump with two outlets, which work on independent pressure and on independent circuits, when use to serve two independent oil circuits.

Features:

Two Oil Outlets
Maximum Efficiency
Switchable Sense of Rotation
Reversible

BH Series

Straight Piston Pumps



Displacement: 14, 19, 25, 32, 40, 45, 50, 52, 60, 80, 86, 110

Operating Pressure 350 Bar

Peak Pressure 400 Bar

ABER BH Series are very robust. They are equipped with radial and axial bearings. To manufacturer this pumps, ABER uses high resistant material in strategic points.

Features:

Maximum Efficiency
Robustness
Great Performance
Low Noise
Continuous Flow
Bidirectional

BHD Series

Double Straight Piston Pumps



Displacement: 20+20, 25+25, 30+30, 40+40, 45+45, 50+50, 53+53, 60+30,

65+22, 72+38, 80+21, 80+27, 83+42

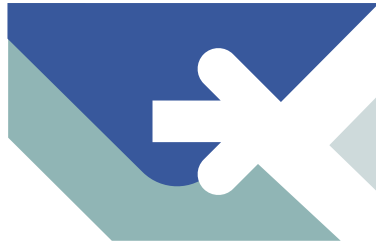
Operating pressure 400 Bar

Max. Pressure 450 bar

Straight Piston Pump with two outlets, which work on independent pressure and on independent circuits, when use to serve two independent oil circuits.

Features:

Two Oil Outlets
Robustness
Bidirectional



ABER HYDRAULIC GEAR PUMP

B2 Series

Oil Hydraulic Gear Pump



Displacement: 12, 16, 20, 26, 32, 39
Operating pressure 280 Bar
Max. Pressure 300 bar
Features:
Small
Fast to Mount
Bidirectional

B3 Series

Oil Hydraulic Gear Pump



Displacement: 38, 45, 52, 61, 70, 82, 91, 102, 116, 125
Operating pressure 300 Bar
Max. Pressure 335 bar
Features:
Medium Size
Fast to Mount
Bidirectional

B3D Series/Tandem Pumps

Oil Hydraulic Tandem Gear Pump



Displacement: 17, 26, 32, 42, 50, 60, 80, 81, 108, 126, 136, 142, 156, 172
Operating Pressure 350 Bar
Peak Pressure 400 Bar
Tandem gear pump with bidirectional sense of flow, with side outlet, prepared for mounting of UNI gear pumps.
Features:
Medium Size
Fast
Assembled up to Three Pumps
Bidirectional

B35 Series

Double Bent Axis Piston Pumps

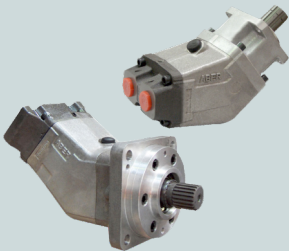


Displacement: 64.5, 74.7, 83.8, 94.0, 104.2, 114.5, 124.7, 133.7, 154.2
Operating pressure 300 Bar
Max. Pressure 320 bar
The B35 series brings another dimension to our range of products, it is a high performance pump, double support by taper roller bearings on the main shaft, built to endure extreme working conditions.
Features:
High Performance
Long Life Period
Stronger
Reinforced
Bidirectional

ABER HYDRAULIC MOTORS

MBI Series

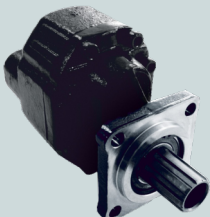
Bent Axis Piston Motors



Displacement: 17, 26, 32, 42, 50, 60, 80, 81, 108, 126, 136, 142, 156, 172
Operating pressure 350 Bar
Max. Pressure 400 bar
Features:
Excellent Performance
Low Noise
High Efficiency
Bidirectional

MB3 Series

Hydraulic Gear Motor



Displacement: 38, 45, 52, 61, 70, 82, 91, 102, 116, 125
Operating Pressure 300 Bar
Peak Pressure 335 Bar
Features:
Medium Size
Fast to Mount
Bidirectional

PV Series

Hydraulic Gear Pumps with Integrated Valve



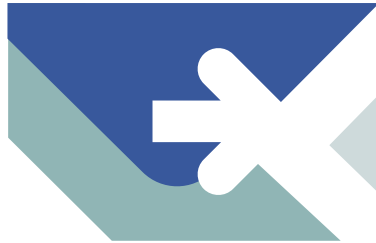
Displacement: 82, 105
Max. Pressure 210 Bar
Features:
Sensitive Valve
Quick Relief
Efficient Cylinder Protection
Easy to Apply
Fast to Mount

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



HAND PUMPS

ACCESSORIES



Displacement: 20, 50, 70
Max. Pressure 350 Bar
Features:
Double acting, for single acting circuit, with lowering valve;
Lever connection Ø27;
Cast iron body;
Standard color black;
Niploy treated piston, white zinc plated support lever and external parts.



PNEUMATIC ACCESSORIES

Pneumatic Controls



Pneumatic Kits Vacuum kits



POWER TAKE OFF'S & GEARBOXES





PTO'S
We have an extended range of Power Take Off's, (PTO'S) always working to adapt to the needs of our clients.

Gearboxes
Continuous Torque: 800 Nm
Power at 1000 rpm: 82 kW





THM
HYDRAULICS

Introducing THM's **HYBRID SERVO HYDRAULIC SOLUTION**

*"Step into the future of automation with our THM Servo System.
Get ready to experience unparalleled accuracy and efficiency
like never before."*

Electro-hydraulic Servo Drive

THSD-23 Series

Rated Power: 5.5 to 160 kW; Single Phase & Three Phase



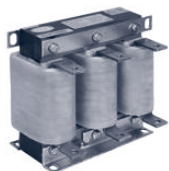
Scan to access detailed
product datasheet

Hydraulic Servo Motor **THH Series**

Rated Power: 5.5 to 67 kW; Rated Speed: 1500/1700/2000 RPM



SERVO ASSEMBLY SPARES



Input AC Reactor



Aluminum Enclosure
Resistor



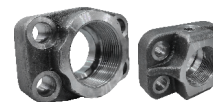
Pressure
Sensor



Bracket
Coupling



Bell
Housing



SAE
Flanges



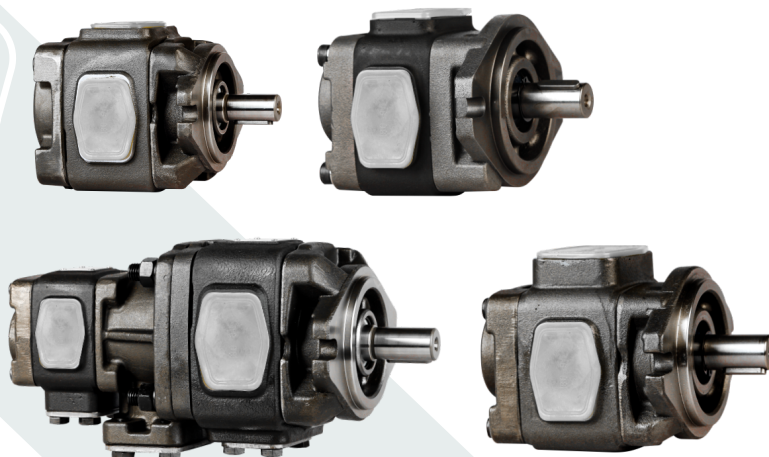
THM
HYDRAULICS

PUMPS FOR VARIABLE DRIVES

Internal Gear Pump

IGP 1, 2, 3 & DIGP (3000 RPM/315 Bar)

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...63

IGP(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.

ITH Series

Internal gear pump with radial and
axial seal clearance compensation

Displacement:

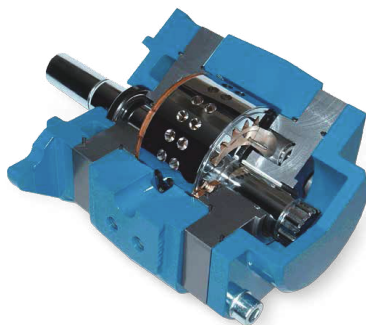
2: 8, 11, 13, 16, 20

3: 25, 32, 40, 50, 64

6: 80, 100, 125, 145, 160

Maximum pressure

up to 345 Bar



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

SMP Series (2200 RPM/250 Bar)

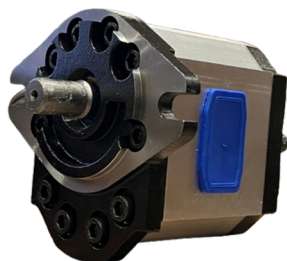
Internal gear pump



Suitable for 2200 rpm
Displacement: 8~160cc/rev
Max. Operating pressure
up to 250 Bar
Single, Double & Triple Pump

TGR Series

Helical Silent Gear Pump



Displacement : 4 ~ 200 cc/rev
Max. Cont. pressure up to 270 Bar
Max. Peak Pressure up to 300 Bar

VPS1, 2, 3

SERVO 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

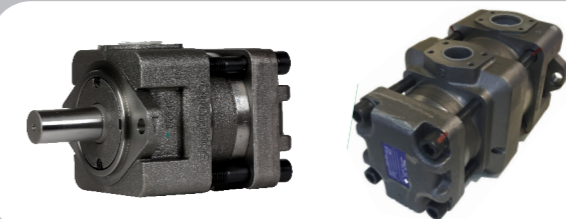


*Living our future today
with industry leaders...*



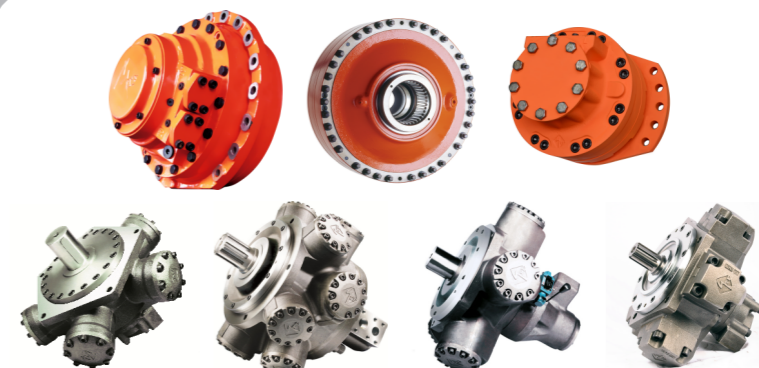
HIGH-PERFORMANCE INTERNAL GEAR PUMP

WITH THE HIGH-PERFORMANCE INTERNAL GEAR PUMP MANUFACTURED BY THE JAPANESE COMPANY SUMITOMO, THM OFFERS COUNTRY-WIDE SOLUTIONS FOR ALL PRESSURE RANGES. DEVELOPED TO MATCH THE SUMITOMO INTERNAL GEAR PUMP, THM OFFERS AND VALUE ADDS CUSTOMISED APPLICATION-SPECIFIC COMPLETE SOLUTIONS – TO MEET THE REQUIREMENT/DEMAND PROFILE.



HYDRAULIC MOTORS & TRANSMISSION

STF HYDRAULIC TRANSMISSIONS COMPANY LIMITED IS A JOINT VENTURE COMPANY SPECIALISING IN THE RESEARCH, DEVELOPMENT AND MANUFACTURE OF THE HYDRAULIC OPEN & CLOSE LOOPS TRANSMISSION, MOTORS, HYDRAULIC VALVES. WE HAVE GATHERED TOGETHER AN OUTSTANDING MANAGEMENT TEAM, EXCEPTIONALLY QUALIFIED ENGINEERS AND EMPLOYED THE WORLD'S LEADING PRACTICES IN THE DESIGN AND MANUFACTURE OF HYDRAULIC MOTORS, TO BRING YOU ONLY PRODUCTS OF THE HIGHEST STANDARD.



SERVO MOTORS & DRIVES

HILECTRO DRIVE UPHOLDS THE PURPOSE OF HAITIAN GROUP INNOVATION, PUTTING FORWARD THE SLOGAN "INNOVATION DRIVES THE FUTURE". WE CONSTANTLY IMPROVE PRODUCTS AND SERVICE QUALITY THROUGH INNOVATION, SO AS TO ENHANCE THE OVERALL COMPETITIVENESS OF OUR PRODUCTS. WE FIRMLY BELIEVE GOOD PRODUCTS CAN PUT CUSTOMERS AT EASE AND ALSO THAT GOOD PRODUCTS CAN ENHANCE MARKET COMPETITIVENESS.

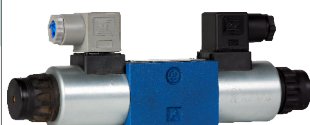




INDUSTRIAL PROPORTIONAL VALVES

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-2FRE

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

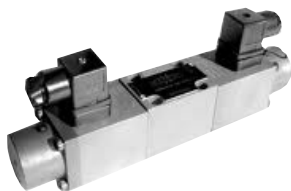


According to electrical command value controlling the volume flow of a hydraulic fluid With a pressure compensator for the pressure compensated control of a flow Actuation via a proportional solenoid With electrical position feedback of the control orifice Both valve and electronic control from one supplier. 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-4WRE

Proportional Directional valves, Type HD-4WRE

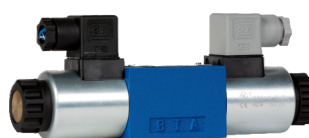


Direct actuated proportional valve for controlling the direction and volume flow of a hydraulic fluid Electrical feedback Wet pin DC Proportional solenoids Spring centered control spool Both valve and electronic control from one supplier Mounting type: Sub-plate

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

HD-4WRA

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

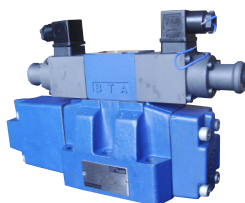


Direct actuated proportional valve for controlling the direction and volume flow of the hydraulic fluid. Wet pin DC proportional solenoids Spring centered control spool Both valve and electronic control from one supplier. For sub plate mounting:

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

HD-4WR

Proportional Directional valves pilot operated type HD-4WRZ External pilot operated type HD-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 | HD-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 |

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

VT-DFP

Pilot Control Valve, 24VDC, 350 bar

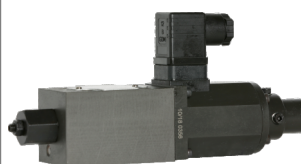


Features:

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 2X This 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.

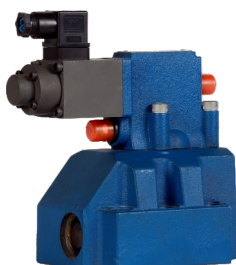


THM
HYDRAULICS

INDUSTRIAL PROPORTIONAL VALVES

HD-DRE/DREM

Proportional pressure reducing valve
type HD-DRE/DREM

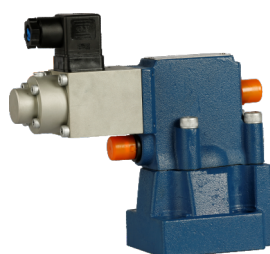


Used for the reduction of a working pressure
Optional maximum pressure protecting
adjustment. Both valve and electronic control
from one supplier
Mounting type sub: plate mounting,
manifold mounting

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

HD-DBE/DBEM

Proportional pressure relief valve type HD-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 | HD-DB/DBEM | | |
| Max operating pressure bar | 315 | 315 | 315 |
| Max flow L/min | 200 | 600 | 400 |
| Delay components | 1.5 with buffering | 4.5 without buffering | |
| Repeatability Precision | <+/-2 | | |
| Electronic control | VT-2000S 40 | | |

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

HD-DBETR

Proportional pressure relief valve, Type HD-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 | HD-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-5003S30 |

EBG 03/06

Electro proportional pressure relief valve

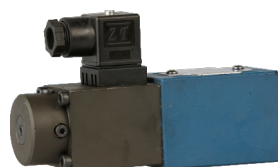


This valve is combined with a proportional
electro-hydraulic pilot relief valve and a
specially developed low-noise relief valve.
Owing to special vent restrictor, this valve
can make pressure control more precise
and stable.

Size : 03, 06

DBETX....1XT

Proportional pressure relief valve



NG6
Max. 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 $I > I_{max}$.)
For subplate attachment, mounting hole
configuration to ISO4401
External trigger electronics with ramps and value
calibration (order separately).

EFBG-02/03/06/10

Proportional Pressure Relief And 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.

HD-(Z)DBE and HD-(Z)DBEE

Proportional pressure relief Valve



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

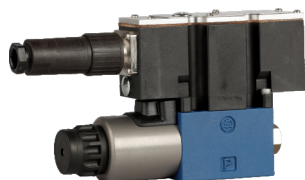
Features :
Valve for limiting a system pressure
Actuation via proportional solenoids
For sub-plate mounting or sandwich plate design
Valve and control electronics from a single source
Types HD-DBEE and HD-ZDBEE with integrated
control electronics:
Low example spread of the command value
pressure characteristic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



INDUSTRIAL PROPORTIONAL VALVES

4WRA(E)6...2X

New Series Proportional Directional valve

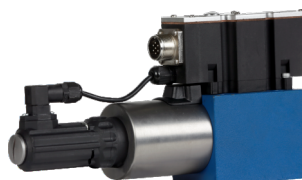


Direct operated with integrated electronic
Working pressure bar 315
Max Flow L/min 30

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

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

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

Proportional Directional Valve, Pilot Operated with Electrical position feedback type



Pilot Operated, with integrated electronics
Working Pressure bar 350

Valve for limiting a system pressure
Actuation via proportional solenoids
Valve and control electronics from a single source
Types HD-DBEE and HD-ZDBEE with integrated control electronics:
Low example spread of the command value
pressure characteristic curve
Independently adjustable up and down ramps

| Size | 10 | 16 | 25 | 32 | 35 |
|------------|-----|-----|-----|------|------|
| Flow L/min | 170 | 460 | 870 | 1600 | 3000 |

HD-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

INDUSTRIAL

SERVO & HIGH RESPONSE PROPORTIONAL VALVE

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 off state.
Electric position feedback and integrated electronics (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 and testing systems.

T-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

4WRLE Series

High-response directional control valves, pilot operated, with electrical position feedback and integrated electronics(OBE)

Size 10 ... 27
Component series 4X
Maximum operating pressure 350bar
Nominal flow 60...600 L/min (Δp = 10 bar)



T-D1FP & T-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)



**INDUSTRIAL****SERVO & HIGH RESPONSE PROPORTIONAL VALVE****T6215M**

Pilot Operated Servo Valves for Direct-Operated flow control with analog interface



Twin flapper-nozzle electro hydraulic servo valve
Size: 10
Maximum pressure: 31.5 MPa
Rated flow : 5-75 L/min (Δ PN=7 MPa)

T7325M

Pilot Operated Servo Valves for Direct-Operated flow control with analog interface,



High Performance,
Two-stage design
providing flow control
in a Simple, Rugged,
Dependable, Long life design
Size: 10
Maximum pressure: 31.5 MPa
Rated flow: 4-63 L/min (Δ PN=7 MPa)

T7625M

Pilot Operated Servo Valves for Direct-Operated flow control with analog interface



High Performance,
Two-stage design
providing flow control
in a Simple, Rugged,
Dependable, Long life design
Size: 10
Maximum pressure: 31.5 MPa
Rated flow: 4-63 L/min (Δ PN=7 MPa)

T7625M

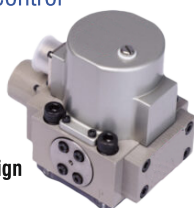
Rotary direct-drive servo valve
Pollution-resistant,
high-frequency response



Working pressure up to 315 Bar
Maximum flow up to 63 L/min

T7625E

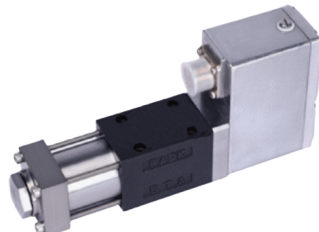
Pilot Operated Servo Valves for Direct-Operated flow control with analog interface



High Performance,
Two-stage design
providing flow control
in a Simple, Rugged,
Dependable, Long life design
Size: 10
Maximum pressure: 31.5 MPa
Rated flow: 4-63 L/min (Δ PN=7 MPa)

T6313E

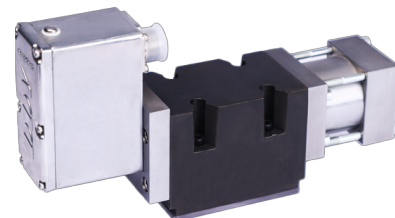
Direct Driven Servo Valves (DDV) for flow control with analog interface



Direct acting proportional servo valve
Size: 6
Maximum pressure: 31.5 MPa
Rated flow: 5-40 L/min (Δ PN=7 MPa)

T6315E

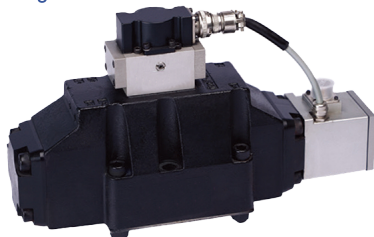
Direct Driven Servo Valves (DDV) for flow control with analog interface



Direct acting proportional servo valve
Size: 6
Maximum pressure: 31.5 MPa
Rated flow: 5-40 L/min (Δ PN=7 MPa)

T6619E

Pilot Operated Servo Proportional Valves for flow control with analog interface

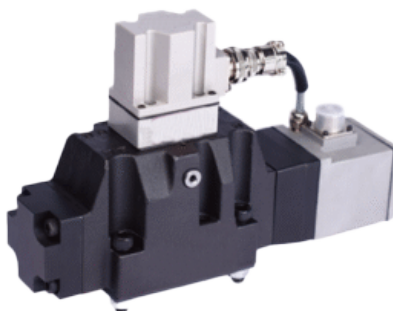


servo valves provide proportional control, allowing precise regulation of the flow of hydraulic fluid in proportion to the electrical input signals they receive and offers accurate and repeatable positioning of hydraulic actuators, enabling precise control of motion and force.

Maximum pressure: 35 MPa
Rated flow: 250-550 L/min (Δ PN=1 MPa)

T6617E

Pilot Operated Servo Proportional Valves for flow control with analog interface

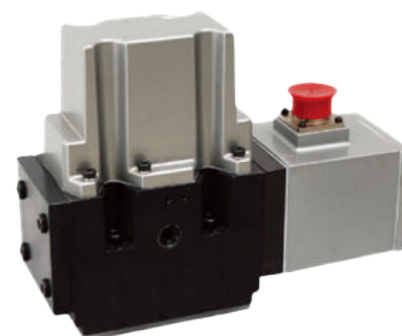


The T6617E servo valves have spools that slide in a bushing and are hydraulically pilot-operated. The design offers much higher accuracy and extremely good static and dynamic behavior.

Maximum pressure: 35 MPa
Rated flow: 120-250 L/min (Δ PN=1 MPa)

T6615E

Pilot-Operated Servo valves for Analog Signals



The T6615E servo valves have spools that slide in a bushing and are hydraulically pilot-operated. The design offers much higher accuracy and extremely good static and dynamic behaviour.

Maximum pressure: 35 MPa
Rated flow: 20-200 L/min (Δ PN=7 MPa)



INDUSTRIAL DIRECTIONAL VALVES

WE

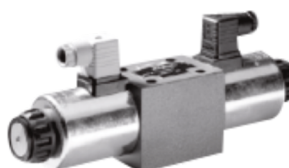
Directional control valve,
electrically operated,
Type WE



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 | | WE | |
| Max operating pressure bar | 250 | 350 | 315 |
| Flow L/min Max | 14 | | 120 |

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

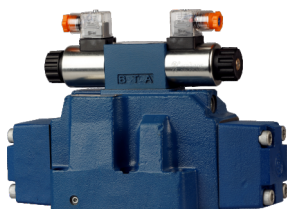


Direct solenoid actuated directional spool valve high performance version
Wet pin DC or AC solenoids with removable coil (it is not necessary to open the pressure tight chamber when changing the coil)
Solenoid coil can be rotated through 90 degree
Hand override, optional
Electrical connections as individual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

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

(H)-WEH/WH

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

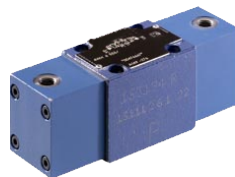


Electro-hydraulic operation
Spring or pressure-centered
Stroke adjustment at main spool, optional
Pre-load valve in the P-channel of the main valve, optional
Wet-pin DC or AC solenoids, optional
Electrical connections as individual connection
Manual override, optional
Shifting time adjustment, optional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

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

HD-WH

Directional valve with fluidic operation, Type HD-WH,



Hydraulic operated spool valve
Spring or pressure-centered
2-way valve with detent, 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-WMU/R

Roller operated directional valve
Type HD-WMU/R

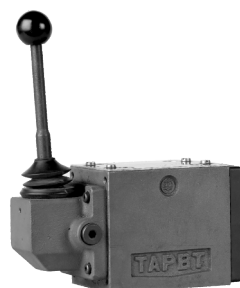


Directed operated directional spool valve with adjustable roller operation
Roller lever assembly may be stepped in 90 degree increments

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

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 |
| 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 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.



INDUSTRIAL DIRECTIONAL VALVES

HD-M-SEW6/10

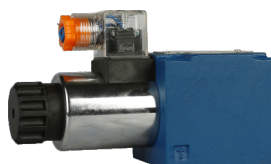
Poppet directional valves,
solenoid actuated.
Type HD-M-SEW6



Direct operated directional poppet valve, solenoid actuated
Closed port is leak free
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 charging the coil)
Solenoid coil can be rotated by 90degree
With protected hand override, optional
Individual electrical connection
Mounting type sub plate mounting
Size 6 10
Type HD-M-SEW6
Max operating pressure bar 630 630
Max. Flow L/min 25 40

M3-SED6/10

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



Size 6
Max. Pressure up to 350 Bar
Max. flow up to 25L/min

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

HD-LC

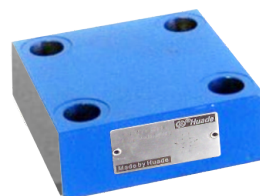
2-way cartridge valve for directional
control function LC



Mounting type: As cartridge structure,
Encased in block
2 area ratio: 2:1=A(annulus area=50%)
14.3:1=B(annulus area=7%)
4 different springs
Valve poppet with or without damping nose
Size 16 25 32 40 50 63
Type HD-LC
Max operating pressure bar 420 420 420 420 420 420
Flow L/min 200 550 750 1500 2700 3000

HD-LFA

2-Way control cover for directional control function, Type LFA



Control cover with built-in poppet valve
Control cover with built-in shuttle valve
Control cover for mounting directional spool valves with or without built-in shuttle valve
Control cover for mounting directional poppet valves with or without built-in shuttle valve

| | | | | | | |
|----------------------------|--------|-----|-----|-----|-----|-----|
| Size | 16 | 25 | 32 | 40 | 50 | 63 |
| Type | HD-LFA | | | | | |
| Max Operating Pressure bar | 420 | 420 | 420 | 420 | 420 | 420 |

Series S4WE6

Solenoid operated directional
valve with spool position monitoring



The proximity sensor monitor 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 make 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



Size: 6 & 10
Maximum Pressure upto 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 device.
The valve core adopts high quality precision steel ball without axial length.

DCT/DCG

Cam Operated Directional Control Valves

Size: 01, 03
Max Pressure: 210, 250 Bar
Max Flow: 30, 100 l/min



Series LFV

2-way cartridge valves with
spool position monitoring



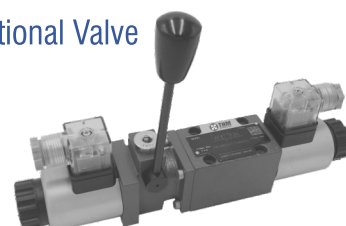
2 way cartridge valve with spool position monitoring, provide feedback to inductive switch signal to sensor spool correct position, to secure equipment operating under safety operation according to hydraulic circuit design and detection requirement. When inductive position switch feedbacks error signal, the equipment stop operating immediately to ensure operator safety.

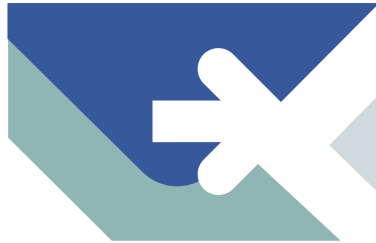
Size: LFV16, 25, 32, 45, 50

WEMM

Solenoid Operated Directional Valve
with Emergency Handle

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





INDUSTRIAL

PREFILL VALVE

Z-TVC

Prefill valve



Max Pressure upto 250 bar
Flow upto 2500 lpm
Sizes: 50, 80, 90, 100, 125, 150

TVS & TVC series of prefill valve allows transfer large volume of fluid from tank or cylinder in short intervals. It can cut down oil movement in valves and piping. Pilot control pressure oil opens and closes the prefill valves on demand according to the application and the hydraulic circuit.

Prefill and Exhaust Valve



Features:
Seat type construction.
Allows free flow from it's port A to port B.
Flow from port B to port A can be had by applying pilot pressure to it's 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.

Sizes : 32 to 80 cc

INDUSTRIAL

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-SHD | S HD-SHD | 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 |

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-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-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 |

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 |



INDUSTRIAL CHECK VALVES

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



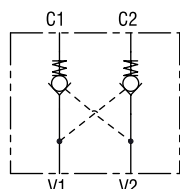
Sizes:
CPDT: 04, 06, 10
CPDG: 03, 06, 10
CPDF: 10, 16
Rated Flow: 50, 125,
315, 500 l/min
Max. pressure: 250 kgf/cm²

VRDE

Double acting pilot
Check valve



HYDRAULIC CIRCUIT :

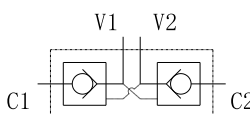


DPOCV

Double pilot
Check valve



Operating Pressure: 3.5 Bar
Maximum pressure up to 350 Bar
Maximum flow up to 80 L/min

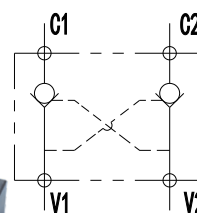


VRPDB

Double pilot
Check valve



Operating Pressure: 3.5 Bar
Maximum pressure up to 350 Bar
Maximum flow up to 100 L/min



COUNTERBALANCE VALVE

VBSO

Single / Dual Counterbalance Valve



Sizes: 6, 10, 15, 20
Flow Rate: 30, 40, 60, 80 L/min
Max. Working pressure up to 350 Bar

Single Counterbalance Valve

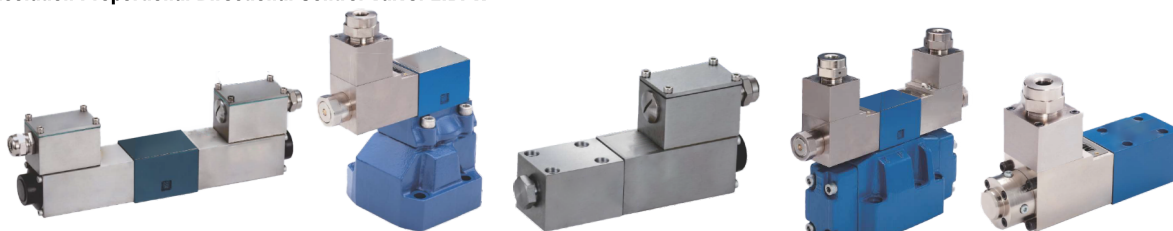


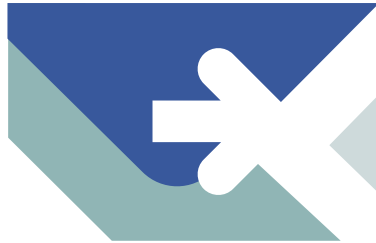
Flow Range: 60~200 L/min
Pressure Range: 250~315 Bar

Explosion Isolation Valves

- Explosion Isolation Solenoid Check Valve: EIAW
- Explosion Isolation Solenoid Directional Control Valve: EIFW
- Explosion Isolation Electro-hydraulic Directional Control Valve: EIFWH
- Explosion Isolation Solenoid Relief Valve: EIYW
- Explosion Isolation Solenoid Unloading Valve: EIYXW
- Explosion Isolation Proportional Directional Control Valve: EIBFW

- Explosion Isolation Proportional Directly Operated Pressure Relief Valve: EIBYZ
- Explosion Isolation Proportional Pilot Operated Relief Valve: EIBY
- Explosion Isolation Proportional Pilot Operated Pressure Reducing Valve: EIBYJ
- Intrinsic safety 3-way proportional reducing valve for mining: IS3DREP
- Intrinsic safety type solenoid seat valve for mining: HY





INDUSTRIAL
PRESSURE VALVES

HD-DA/DAW

Pilot operated shut-off valve, Type DA/DAW

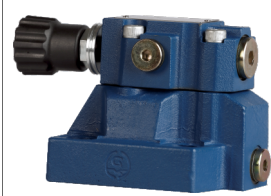


Solenoid actuated unloading via a built on directional valve type DAW
10% version, 17% version
4 pressure adjustment element optional
4 pressure ranges (in bar) 50, 100, 200, 315
For sub plate mounting

| | | | |
|-----------------------------|-----------|-----|-----|
| 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

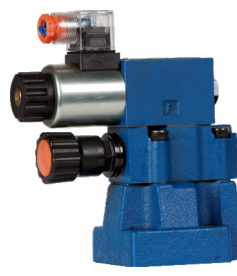


4 pressure ranges (in bar): 50, 100, 200, 315
4 pressure adjustment elements, optional
mounting type: cartridge connection

| | | | |
|----------------------------|-------------|-----|-----|
| 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/.....

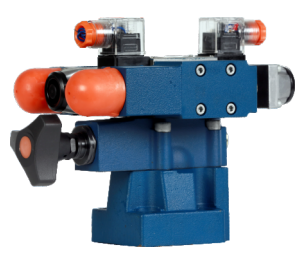


Solenoid operated unloading via a built on directional spool valve
5 pressure ranges (in bar) 50, 100, 200, 315, 350
3 pressure adjustment elements, optional
3 mounting types: sub-plate mounting,
threaded connection, manifold mounting

| | | | | | |
|----------------------------|--------|-----|-----|-----|-----|
| 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-DB2U/DB3U

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

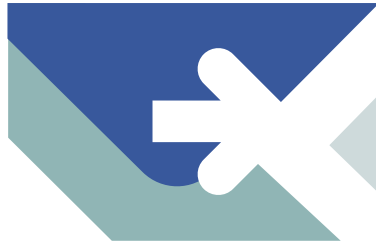
| | | | | |
|-----------------------------|-------|-----|-----|-----|
| Size | 10 | 15 | 20 | 25 |
| Type | HD-DR | | | |
| Max. Operating pressure bar | 315 | 315 | 315 | 315 |
| Max Flow L/min | 150 | 300 | 300 | 400 |

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.



INDUSTRIAL
PRESSURE VALVES

HD-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 | HD-DBD | | | | | | |
| Working pressure bar | 400 | 400 | 630 | 315 | 315 | 315 | 315 |
| Flow L/min | 50 | 120 | 120 | 250 | 250 | 350 | 350 |

HD-DBT/DBWT

Pressure remote relief valve, Type HD-DBT/DBWT

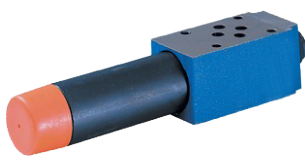


Remote control in long distance
3 pressure adjustment elements, optional
Mounting type: sub-plate mounting

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

HD-DZ...DP

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

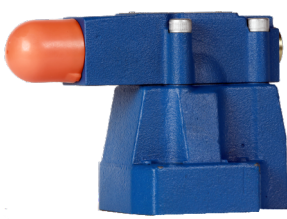


-3 or 4 pressure adjustment element, optional
-5 pressure ranges (in bar) 25, 75, 150, 210, 315
-check valve optional
-For sub-plate mounting

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

HD-DZ

Pilot operated pressure sequence valve, type HD-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 | HD-DZ | | |
| Max operating pressure bar | 315 | 315 | 315 |
| Max flow L/min | 200 | 400 | 600 |

HD-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 | HD-LC...DB | | | | | |
| Max operating pressure bar | 420 | 420 | 420 | 420 | 420 | 420 |
| Flow L/min | 250 | 400 | 600 | 1000 | 1600 | 2500 |

HD-ZDB/Z2DB

Pilot operated pressure relief valve
type HD-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 | HD-ZDB/Z2DB | HD-ZDB/Z2DB |
| Max operating pressure bar | 315 | 315 |
| Flow L/min max | 60 | 100 |

HD-ZDR

Direct operated pressure reducing valve,
Type HD-ZDR



Sandwich plate design
4 pressure range (in bar) 25, 75, 150, 210
4 pressure adjustment element, optional
Pressure reduction in ports A, B or P
Check valve optional

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

FC/FCR Series

Full range Pressure Compensating Variable
Flow Control Valve
Max. Flow Setting up to 114 l/min

Features:

In order to vary the flow of fluid, the full range pressure compensating variable flow control valve is designed so that the orifice area varies as the lever is rotated. It has compensator spool inside the valve body. No matter how the pressure varies, that is, no matter the orifice area varies from closed to open, the outlet flows will be constant and stable.





THM
HYDRAULICS

INDUSTRIAL FLOW CONTROL VALVES

Take Control High Efficiency VALVES

HD-2FRM

2-way flow control valve, Type HD-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 | HD-2FRM | | | |
| Max operating pressure bar | 210 | 315 | 315 | 315 |
| Flow L/min Max | 15 | 25 | 50 | 160 |

HD-2FRM6....31/

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



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 | 6 |
| Type | HD-2FRM-....31/ |
| Max operating pressure bar | 315 |
| Flow L/min Max | 32 |

HD-DV/DRV

Throttle check valve, type HD-DV/DRV



For setting and shut-off flow 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 | HD-DV/DRV | | | | | | | | |
| Max operating pressure bar | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 |
| Flow L/min Max | 20 | 50 | 60 | 85 | 180 | 300 | 300 | 300 | 300 |

HD-FD

Check Q meter valve,
Type HD-FD



Pilot operated check valve leak-free
2 mounting type : sub plate mounting, threaded connection
By pass valve, free flow in opposite direction
Optional built-on secondary pressure relief valve (only for valve with flange connection)
3 mounting type manifold mounting (cartridge valve), sub plate mounting, SAE flange connections.

| | | | | |
|----------------------------|-------|-----|-----|-----|
| Size | 12 | 16 | 25 | 32 |
| Type | HD-FD | | | |
| Max operating pressure bar | 315 | 315 | 315 | 315 |
| Flow L/min Max | 80 | 200 | 320 | 560 |

HD-MG/MK

Throttle and throttle check valve, Type HD-MG/MK



Suitable for direct in line mounting
Pressure and viscosity dependent
Throttle valve type MG and throttle check valve type MK
Mounting type: Threaded connection

| | | | | | | | |
|----------------------------|----------|-----|-----|-----|-----|-----|-----|
| Size | 6 | 8 | 10 | 15 | 20 | 25 | 30 |
| Type | HD-MG/MK | | | | | | |
| Max operating pressure bar | 315 | 315 | 315 | 315 | 315 | 315 | 315 |
| Flow L/min Max | 15 | 30 | 50 | 125 | 200 | 300 | 400 |

HD-Z2FS

Double throttle check valve, Type HD-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 | HD-Z2FS | | | |
| Max operating pressure bar | 315 | 315 | 315 | 315 |
| Max. Flow L/min | 15 | 50 | 125 | 200 |



Hydraulic
Control
Systems



ELECTRIC COMPONENTS & ACCESSORIES

HD-AF6E

Pressure gauge-Isolator valve
type HD-AF6E



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

Size 6
Type HD-AF6E
Max operating pressure bar 315

WMAP

Pressure switches with fixed differential



Max. Pressure upto 350 Bar

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

HD-HED1

Hydro-electric pressure switch,
type HD-HED1



For changing the pressure signal to electrical signal
With of without drain port, optional
With of without control lamp
Type HD-HED1
Max operating pressure bar 500

HD-HED4/HED8

Hydro-electric pressure switch
type HD-HED4/HED8



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

Type HD-HED4/HED8
Max operating pressure bar 350

HD-MS2A

Multi-circuit gauge isolator,
type HD-MS2A



Valve housing with threaded connections
6 measuring points
With built-in pressure gauge
Flange mounting
Size 6
Type HD-MS2A
Max operating pressure bar 315

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.

KHB/KHM

Ball Valves



Features :

THM 2-way High pressure Ball Valves are of a compact construction.
Working temperature depending upon sealing material - 20 degree C to + 250 degree C.
Easy handling even at high pressure (switching through 90 degree).
Working pressure up to 450bar.
Individual pressure testing of valves ensures safety.
If the ball valve are to be used for gas, oxygen or any other special application, please give full details when ordering with temperature and pressure. Also manufactured in stainless steel.

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 valve functions shock, inlet check suction and relief valves, according to European & US standards, extensively used in forklift, tractor, combines and loaders.

VUBA Series

Hose Burst Cartridge Valves

Sizes: G1/4", G3/8", G1/2", G3/4", G1"
Max. Flow: 30, 50, 80, 110, 180 L/min
Max. pressure up to 350 Bar



USDAS1

User Manual

Supply Voltage: 8-32 VDC
Command Input: 4-20 mA



Minimess coupling

Applications:
Monitoring/ testing of pressure
Lubrication
Air bleeding
Oil sampling



US-P1

User Manual



Operating voltage: 8~32VDC

Signal Input: 4~20 mA

Output current: 0-3A

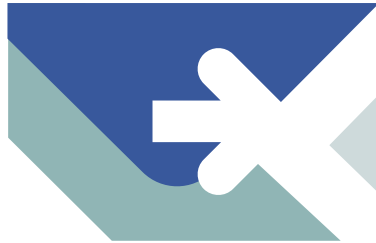
Dither frequency: 50-450Hz

Opposite time: 0-99.9 S

Reference voltage: 5V

Protection level: IP65

Operating temperature: -40 to 70°C



ELECTRIC COMPONENTS & ACCESSORIES

TMRPD

Amplifier card



Suitable for the control of variable piston pump
(type A4VSO and A4VSG)
Powerful 32-bit processor
Command 0...10 V
2 PWM output ports
Enable
Fault diagnosis function, power supply voltage,
coil short circuit, open circuit or other abnormal
conditions prompted
35mm rail mounting or screw holes

TEDS-3xx Series

Pressure switch with digital display



Pressure up to 400 bar
Voltage 20...32 VDC
Output 4-20mA/ Switching

Features:

The TEDS 3xx is a compact, electronic pressure switch with integrated digital display. The integrated pressure sensor is based on a measurement cell with thin-film strain gauge on a stainless steel membrane. Four different output models are available: with one switch point or with two switch points and both models can also have an additional analogue output signal 4...20 mA.

E-510 Series

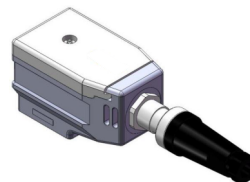
Plug-in Proportional Valve Amplifier



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-off input. 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

SPARES AND SEAL KITS

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



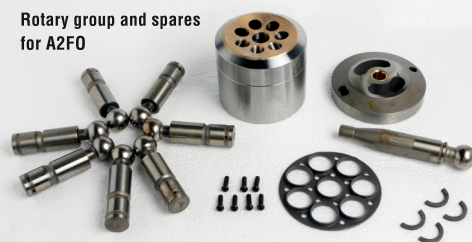
Rotary group and spares for A10V0/VSO

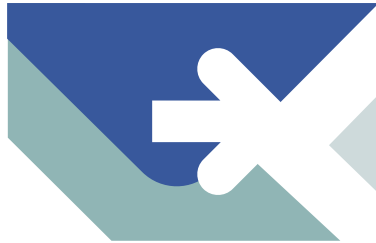


Rotary group and spares
for A2F



Rotary group and spares
for A2FO





MOBILE VALVES

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 the flow of oil between 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 Sizes : 1P80, 2P80, 3P80, 4P80, 5P80, 6P80

SD4

Monoblock Directional Control Valve



Maximum Flow 45L/min
Operating Pressure up to 315 Bar

Features:

Simple, compact designed, 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 90L/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 18mm 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 system 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-pneumatic, electro-hydraulic etc. Structure: sectional type. Carry-over port as hydraulic source for other parts.

Z50

Solenoid Direction Control Valve



Spool: 1 to 6
Max Pressure: 315 Bar
Max Flow: 50 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.

LSPV Series

Load Sensing Proportional Control Valve



| | | | | |
|---------------------------------|-----|-----|-----|-----|
| Nominal Sizes | 12 | 15 | 20 | 25 |
| Rated pressure(bar) (pump side) | 350 | 350 | 350 | 350 |
| (actuator side) | 420 | 420 | 420 | 350 |
| Rated Flow (L/min) | 120 | 200 | 400 | 500 |

DL20

Section-Structured Multi-way Directional Valve



Size: 02 & 03
Rated Pressure: 250 Bar
Rated Flow: 160 L/min
Maximum Flow: 200 L/min

Applications:

Light loader, Forklift
Agricultural tractor auxiliary function
Drilling rig, Hoisting machinery
Material handling machinery



MOBILE VALVES

TSL/TSV

Proportional Directional
Spool Valve (Load Sensing)



Features:
Integrated with TSL/TSV – 2/3/5.
CAN communication
Hysteresis minimisation through
closed-loop spool valve position control
High repeat accuracy due to linearised
characteristic lines
Approved for mining and gas and dust environments
Interchangeable / TSV-2/3/5 mounted with
CAN-EX controls

TSL/TSV

2/3/5 Multi-way Proportional Directional
Spool Valve (Load Sensing)



Features:
Maximum operating pressure: 42MPa
Flow rate: 60L/min
Maximum of 12 sections in each bank valve
Operation methods: Electromagnetic, manual,
hydraulic, CAN
Interchangeable

TSL/TSV

Two-series proportional multi-way valve



Application Areas: Construction machinery,
mining machinery, petroleum machinery,
municipal vehicles,
Maximum Pressure: 420 bar
Maximum Flow Rate: 60 lpm

PV-3/PV-4 Series Proportional Valve



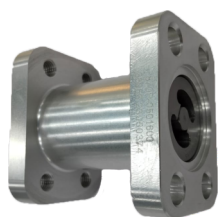
Max. Flow: 140 l/min
Max. pressure: 350 bar
Applications:
For Mobile & Industrial
hydraulic applications

DCF6

Electromagnetic Multi-way Valve
Solenoid Proportional Control/
Manually Proportional Control

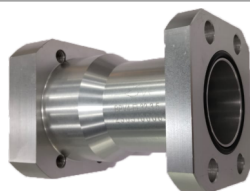


Rated Flow: 40 L/min
Rated Pressure: 250 Bar



Back Pressure Valve

Flow rate: 300 L/min
Opening Pressure: 3 Bar



Oil Return Check Valve

Flow rate: 500 L/min
Rated Pressure: 50 Bar
Opening pressure: 3.5 ± 0.2 bar



Back Pressure Valve

Flow rate: 600 L/min
Opening Pressure: 4.5 ± 0.45 Bar



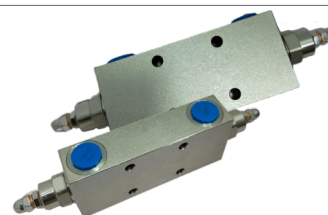
2 Position 8 way switching valve

Flow rate: 20 L/min
Rated Pressure: 100 Bar



Flush Valve

Flow rate: 60 L/min
Rated Pressure: 450 Bar
Opening pressure: 0-30 bar



Double Overcenter Balancing Valve

Flow rate: 60 L/min
Rated Pressure: 350 Bar



MOBILE VALVES



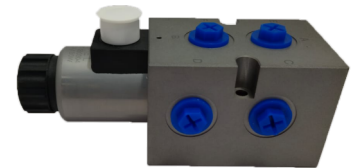
2 Position 6 way solenoid valve

Flow rate: 60 L/min
Rated Pressure: 250 Bar



2 Position 8 way solenoid valve

Flow rate: 10 L/min
Rated Pressure: 100 Bar



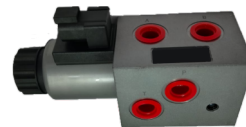
Selector Valve

Flow rate: 50 L/min
Rated Pressure: 315 Bar



2-link-2 Position 6 way solenoid valve

Flow rate: 25 L/min
Rated Pressure: 250 Bar



2 Position 6 way solenoid valve

Flow rate: 120 L/min
Rated Pressure: 350 Bar

MODULAR VALVES

NG16, NG22, **NG32**



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

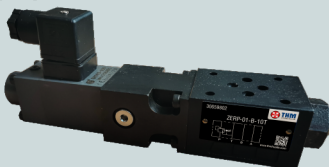
Throttle check Modular Valves



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 adjust 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.



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.

AW0607-FMA2

AC/DC fan motor series



Used in: Very suitable for machine tools, special purpose machine tools and small power packs.

Features:

Application for cooling of the oil drain pipes of variable vane and piston pumps and small hydraulic power packs, the cooler is assembled with a high-performance axial flow electric fan with tightly structured high heat dissipation type fins, single-fan and double-fan cooling is available according to the heat generated in a hydraulic system, standard ports for inlet and outlet are available with PT and BSP screw threads operating voltages available are DC 12v, DC 24v, AC 110v and AC 220v.

AH608L

AC/DC fan motor series



Used in: Very suitable for machine tools, special purpose machine tools and small power packs.

Features:

Application for cooling of the oil drain pipes of variable vane and piston pumps and small hydraulic power packs, the cooler is assembled with a high-performance axial flow electric fan with tightly structured high heat dissipation type fins, single-fan and double-fan cooling is available according to the heat generated in a hydraulic system, standard ports for inlet and outlet are available with PT and BSP screw threads operating voltages available are DC 12v, DC 24v, AC 110v and AC 220v.

AH1012,AH1245

AC/DC fan motor series



Used in: Very suitable for machine tools, special purpose machine tools and small power packs.

Features:

Application for cooling of the oil drain pipes of variable vane and piston pumps and small hydraulic power packs, the cooler is assembled with a high-performance axial flow electric fan with tightly structured high heat dissipation type fins, single-fan and double-fan cooling is available according to the heat generated in a hydraulic system, standard ports for inlet and outlet are available with PT and BSP screw threads operating voltages available are DC 12v, DC 24v, AC 110v and AC 220v.

EH SERIES

Oil Cooler with Hydraulic Motor



Model: EH24D-HM
Gear motor displacement: 12.6 mL/r
Motor Max. pressure: 250 bar
Air Oil Cooler flow: 380 L/min
Cooler Max. pressure: 24 bar

AH1417-1890

Oil-air Cooler, AC fan motor series



Used in: Machine tools, special-purpose machinery, engineering machinery, tunnel and port machinery, hydraulic power station & lubricating system.

Features:

The product is designed to achieve the best cooling effect with 35 bar dynamic axial flow fan and tightly structured high-efficiency fan, single-fan cooling or double fan cooling is available according to the heat generation of the system, standard for oil inlet and outlet: PT(RC) screw thread; other threads can be custom-made, operating voltage: AC 110V, AC220V, AC 380V, DC 12V and DC 24V, in case that special voltage is required please contact THM

TSH Series

Air Oil Cooler



Rated Flow: 100~1000 L/min
Maximum Working Pressure up to 20 Bar

Applications:

Mobile, Agriculture, construction machinery etc. Suitable for mobile hydraulic systems or high-power cooling without AC power

THXD Series

Air Oil Cooler



Rated Flow: 80~500 L/min
Maximum Working Pressure up to 20 Bar

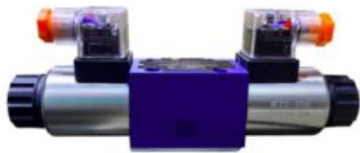
Applications:

Agricultural and construction machinery, mobile equipment. Outdoor settings. Wide application scenarios.



Introducing the latest Make in India hydraulic valves!

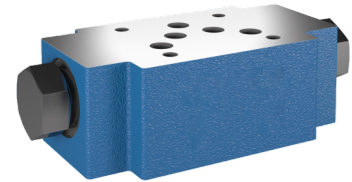
Engineered for optimal performance, these valves showcase cutting-edge technology, precision manufacturing, and adhere to international quality standards. Enhance your hydraulic systems with our reliable and efficient valves, proudly made in India to meet the diverse needs of Industries.



4WE 6,10
Solenoid Operated
Direction Control Valve



ZDR6, 10
Pressure Reducing
Valve



Z2S6, 10
Pilot Operated
Check Valve



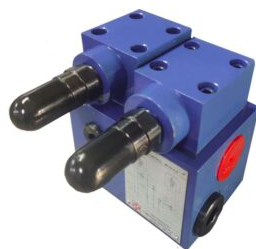
S Type 6 to 30
Check Valve
Threaded Mounting



DPRH 6, 10
Direct Operated
Pressure Relief valve



Z2FS6, 10
Double throttle
and check valves



PCM
Pressure Control Module



1PS10/1PS
Pressure Switch

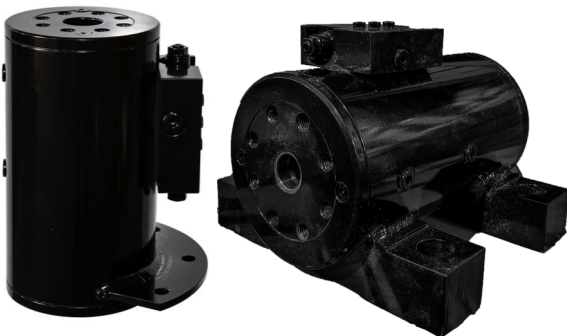


**“Empower Your Machinery:
Make in India Hydraulic Valves
Where Reliability Meets Revolution.”**



THM
HYDRAULICS

ROTARY ACTUATOR



SAM Series

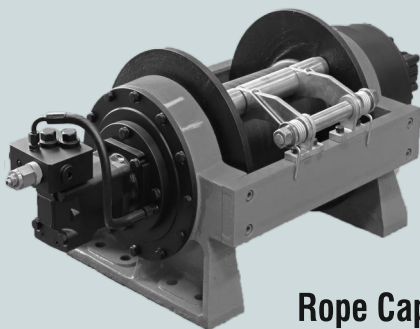
Rotary Actuator

Displacement: 155, 256, 513, 827, 1253 cc/rev

SAM series rotary actuator is mainly designed for all kinds of aerial work platform. Customized product solutions according to customer requirements for different equipment can also be realized.

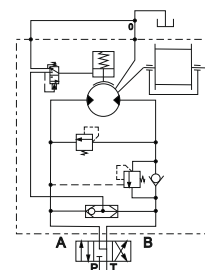


HYDRAULIC WINCH



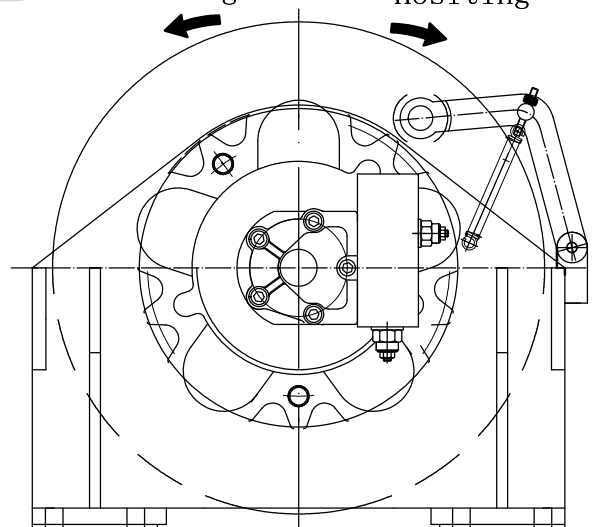
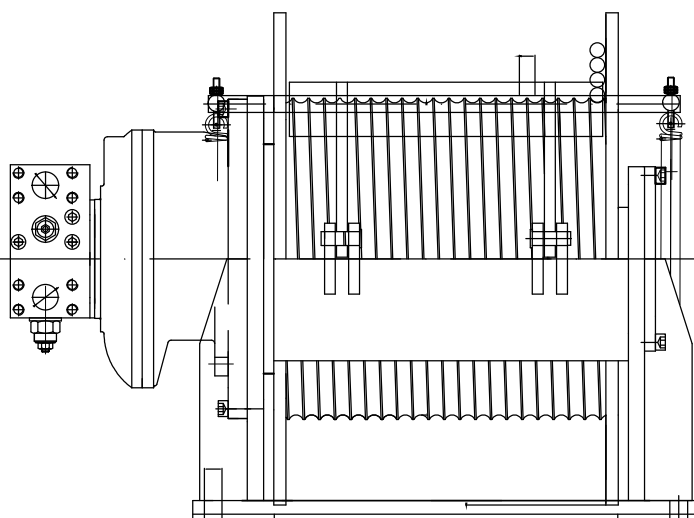
Rope Capacity: 2.5, 5, 10 Tonne

Hydraulic Schematic



Lowering

Hoisting





Aerial Work Platform (Scissor-Lift)



BCW Series Orbital Hydraulic Motor



Sizes: 120 to 620 cm³/rev
Max. Cont. Speed up to 374 r/min
Max. Cont. Flow up to 83 l/min

Introduction:

The BCW series orbital hydraulic motor, which boasts superior mass-to-power ratio, has been extensively used in all kinds of mobile and rotary conditions, particularly for low flow and large torque load starting conditions.

BBK Series Hydraulic Brake



Min. Static Torque: 1150, 1500 Nm
Brake Release pressure: 28 Bar
Max. Bearing capacity: 250 Bar
Max. Speed: 250 r/min

Introduction:

The BBK series brakes are normally-off oil wet static hydraulic brakes, which utilize spring action to produce the braking force, while oil pressure is used to release the brake.

TMCR/TMCRE Series

Hydraulic Motor
Frame Sizes: 03, 05, 10



Applications:
Mining Machinery
Construction Machinery
Marine Machinery



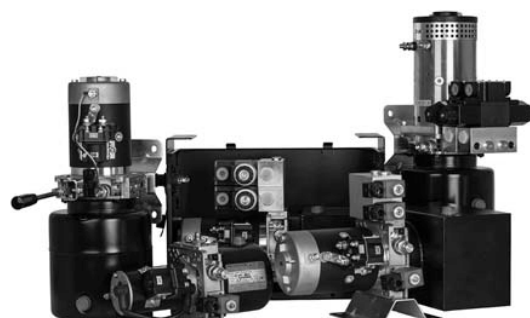
SERIES CPU COMPACT POWER UNIT



AC power packs for car lifts



AC power packs for
Industrial lifts and machinery



DC Power Packs



PTO Power Packs



Scan to access detailed
product datasheet

ACCUMULATORS

AB330 Series Bladder Accumulators

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



Description:

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.

THAD Series Diaphragm Accumulators



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

TH-ASB Accumulator Safety Block

Nominal Diameter: 10, 20, 32
Maximum pressure up to 315 Bar

TH-ASB type energy storage safety valve block, a specialized valve block applicable for domestic energy storage, is used to control the fluid switching, over pressure protection, pressure releasing protection, and unloading and draining fluid. It is composed of stop valve, internal overflow valve and manual unloading valve. A plug-in two-way electromagnetic selector valve is optional for unloading. TH-ASB type safety stop valve has the advantages of reliable performance, compact structure, and convenient operations.





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HYDRAULICS

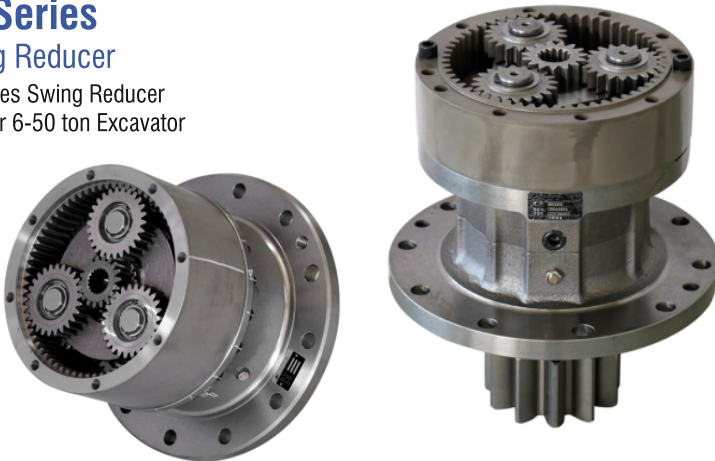
GFT SERIES Planetary Gearbox



THTM MOTOR Travel Motor with Wheel Drive



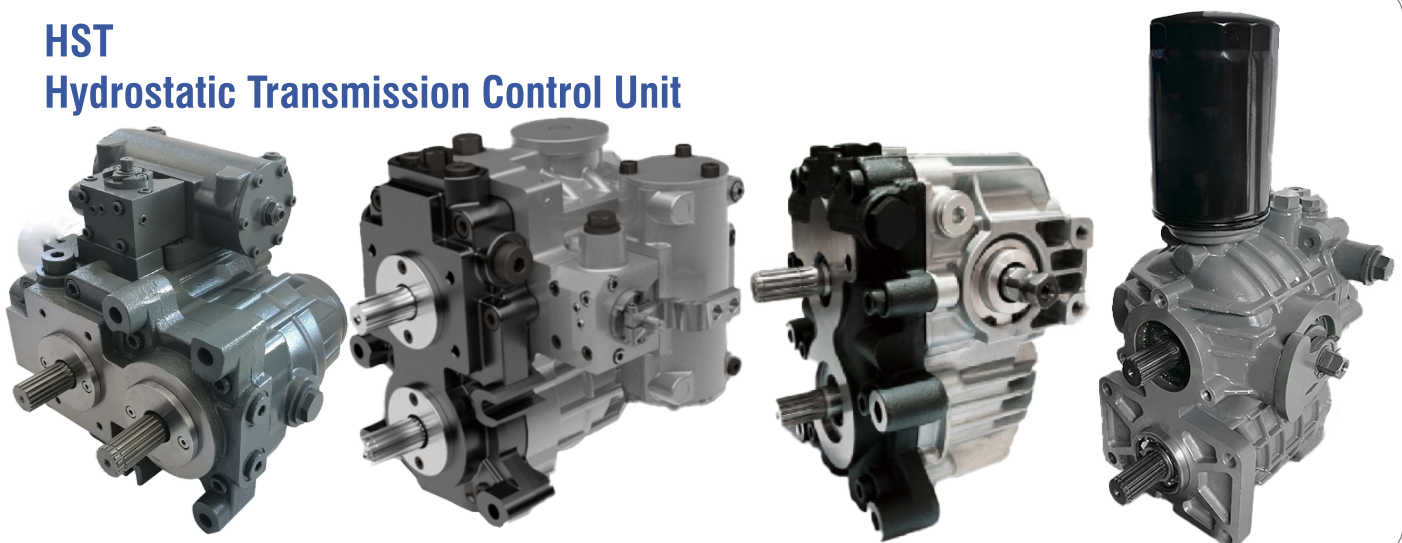
SG Series Swing Reducer SG Series Swing Reducer used for 6-50 ton Excavator



THM
HYDRAULICS
QUALITY
ASSURED



HST Hydrostatic Transmission Control Unit





THM
HYDRAULICS

TMT Series

Screw Pump



Shaft Speed up to 3600 rpm
Flow up to 8000 l/min
Outlet pressure: 0~80 Bar
Inlet Pressure: 0.7~3 Bar

TPN 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 0.382 Nm
Motor life: 2000 Hours

TA10

Linear Actuator



Input: 12V & 24V
Load Force: Max. 1500N/150Kg/330lbs
Speed: Max. 90mm/s
Operation temperature: -26°C~+65°C

TA14

Linear Actuator

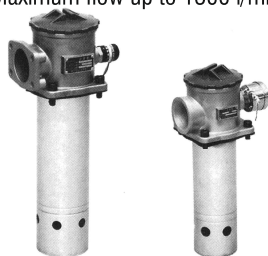


Input: 12V & 24V
Load Force: Max. 4000N/400Kg/880lbs
Speed: Max. 26mm/s
Operation temperature: -26°C~+65°C

TF Series

Tank Mounted suction filter

Maximum flow up to 1300 l/min



DF Series

Pressure Line Filter

Rated flow: 160, 256 l/min



QL Series Remote controller

Transmitter and receiver



Models:

Transmitter QL-02-SC001
Transmitter QL-04-SC001
Transmitter QL-05-SC001
Transmitter QL-06-SC001
Transmitter QL-04-SC003(P)
Receiver

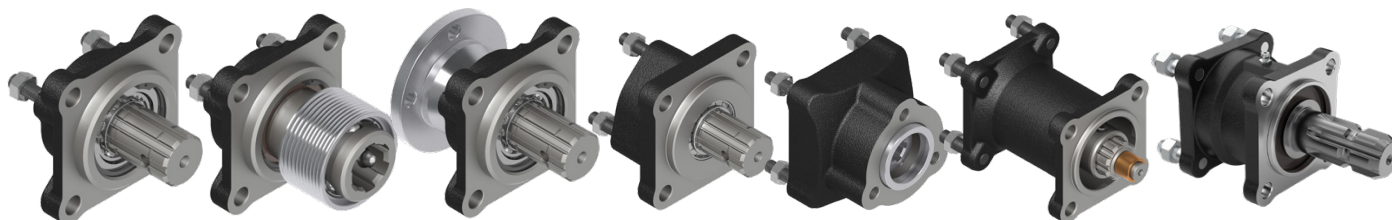
* Both Transmitter and Receiver Support Customization

ADAPTERS

- 3/4 SHORT ADAPTER
- 3/4 SHORT ASAE ADAPTER
- 3/4 SHORT TRC ADAPTER
- 3/4 SHORT FLANGE ADAPTER
- 3/4 ADAPTER WITH SHORT BEARING AND FLANGE
- 3/4 LONG ADAPTER
- 3/4 LONG FLANGE ADAPTER

- 3/4 ADAPTER WITH LONG BEARING AND FLANGE
- 4/3 ADAPTER
- 4/3 ASAE ADAPTER
- PITCH LENGTHENING
- NGE ADAPTER
- LONG PITCH LENGTHENING ADAPTER WITH BEARING
- TRACTOR ADAPTER

- SAE A - ISO ADAPTER
- SAE B - ISO ADAPTER
- ISO - ASAE ADAPTER





HEAVY MACHINERY HYDRAULIC COMPONENTS

Pilot Operated Valve Series



Fully Electric Control Valve Series



Brake Valve Series



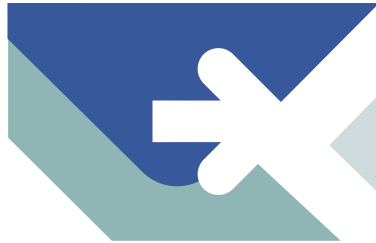
Integrated Valve Block Series

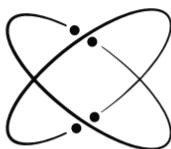


Central Rotary Joint Series



Scan to access detailed
product datasheet



 **ATOM METRIC**
FINEST MEASUREMENTS, HIGHEST PRECISION

**RH/RP Displacement Sensor
Analog Output**



**RH/RP Displacement Sensor
SSI Output**



**MH Series – Magnetostrictive
Displacement Sensors**



HP Position Sensor



EP Displacement Sensors



ED Displacement Sensors





ER - Position Sensor



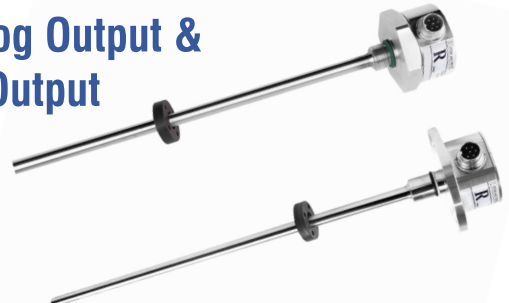
ES - Displacement Sensor



RB-Flat Displacement Sensor



RB2-Magnetostrictive Displacement Sensor- Analog Output & SSI Output



PS200 Electronic Pressure Switch (sensor)

The diffused silicon sensor is used for pressure measurement, and the signal is converted into a standard industrial electrical signal after processing by a post-processing circuit and displayed. Designed with an integrated injection molded housing, this series of products can be used in a variety of industrial applications. Key setting, easy operation, high-light LED can digitally display real-time measurement values. A variety of connection methods can fully meet a variety of specific installation needs.



PS500 Electronic Digital Display Pressure Sensor

The diffused silicon sensor is used for pressure measurement, and the signal is processed by a post-processing circuit and converted into a standard industrial electrical signal for output and display. The all-metal casing design, with a highlighted LED digital display, enables the product line to be used in a variety of industrial applications. The three-button design and menu make the product more convenient to use, and a variety of connection methods can fully meet various specific installation needs. The device, which can rotate at 330°, guarantees the best viewing Angle in different mounting modes



TS420 Intelligent temperature controller



TS450 Intelligent temperature controller





HYDRAULIC QUICK RELEASE COUPLINGS

Hydraulic quick couplings are connectors designed for easy and fast connection and disconnection of fluid lines in hydraulic systems, often without the need for tools. These couplings are crucial in applications where frequent or quick fluid line connections are needed, reducing downtime and improving efficiency. Below are the common subheadings under a detailed section on hydraulic quick couplings:

TYPES OF HYDRAULIC QUICK COUPLINGS

- **Threaded Couplings:**
Ideal for high-pressure systems
- **Non-Spill Couplings:**
Prevents fluid spillage during connection/disconnection
- **Flat-Face Couplings:**
Common in mobile and industrial applications
- **Ball and Sleeve Couplings:**
Used in various hydraulic applications for durability
- **Push-to-Connect Couplings:**
Easy and tool-free connection

**THM-FF Flat face type
hydraulic quick coupling (steel)**



**THM-S1 Close type
hydraulic quick coupling (steel)**



**THM-S1SS
hydraulic quick coupling (Stainless-steel)**



**THM-S4 Ball type
Hydraulic quick coupling (steel)**



**THM-KZE-B Thread lock type
Hydraulic quick coupling (steel)**



**THM-S5 & S5C Push & Pull type
Hydraulic quick coupling (steel)**

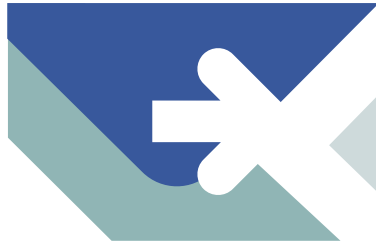


NOTE: FOR MORE REQUIREMENT PLEASE CONTACT THM.

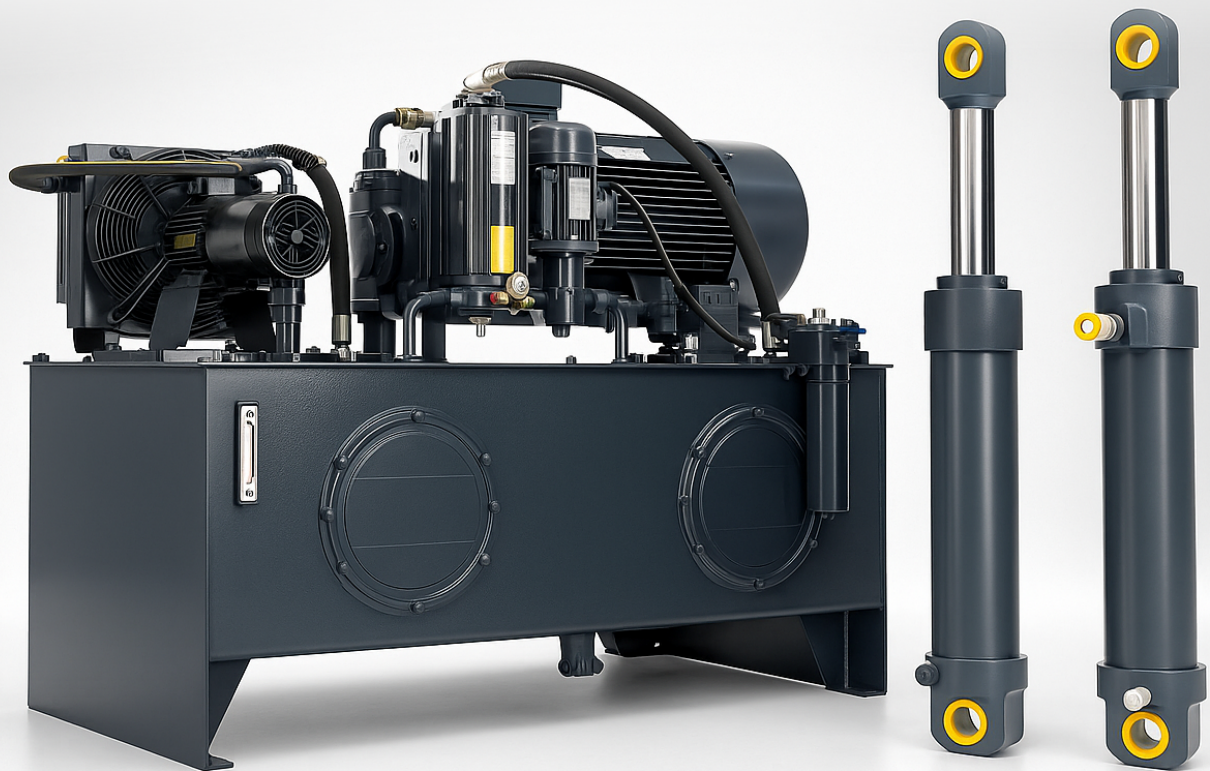
Hydraulic Quick Couplings:

Efficient Connectors for Fast and Secure

Hydraulic System Connections



Made Exactly as per your Design and Requirements – Custom Power Packs & Cylinders



HYDRAULIC CYLINDERS

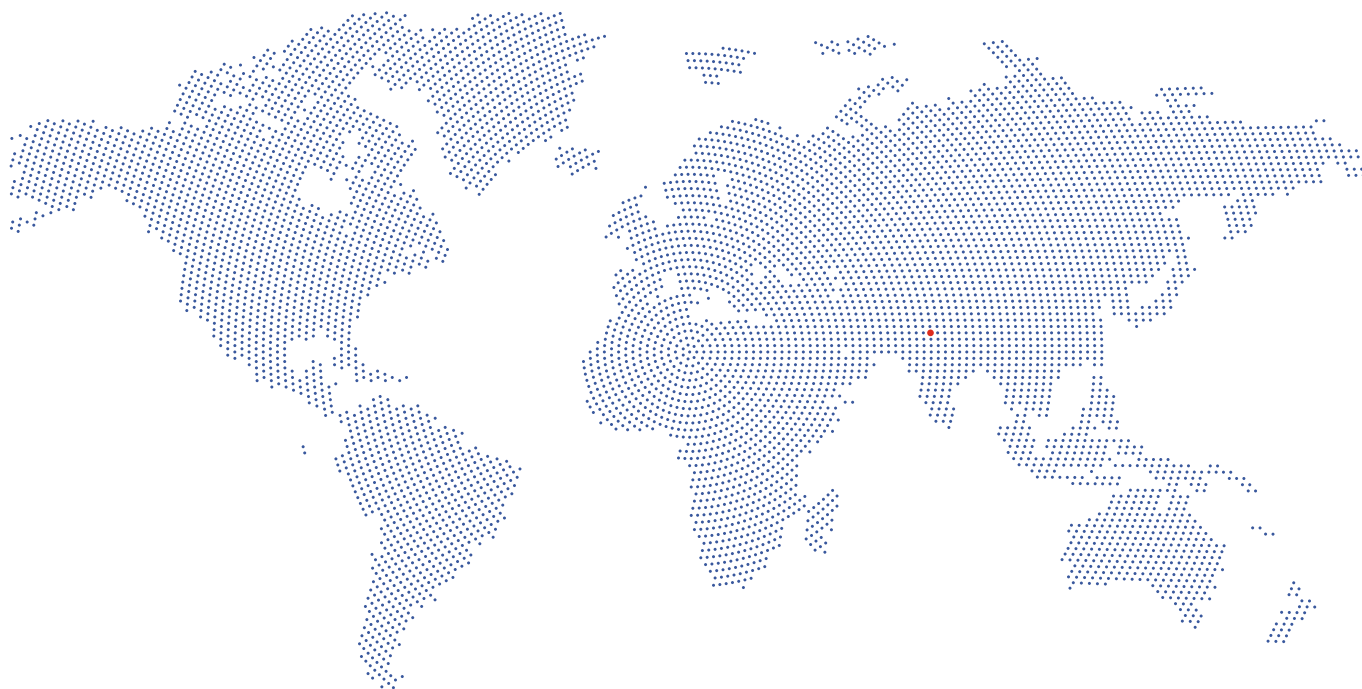
THM-OB/OD Series

OB/OD Medium Duty Tie Rod Hydraulic Cylinder

**We Can Provide
Customised Cylinders**



Working pressure: 140 bar
Bore size(mm): Ø40, Ø50, Ø63, Ø80, Ø100,
Ø125, Ø150, Ø180, Ø200
Standard Stroke(mm): 50, 100, 150, 200, 250,
300, 350, 400, 450, 500,
600, 700, 800, 900, 1000



THM
HYDRAULICS

THM HUADE HYDRAULICS (P) LTD

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Website: www.thmhuade.com

