



HTM hydraulics

POWERING YOUR PROGRESS

Trading
Marketing & Service
Training

www.htmhydraulics.co.in



HTM GROUP has been in the field of Hydraulics since 1995. Our expertise in the industry makes us one of the leading competitive companies in the field of Trading, Marketing & Servicing and Training for customers in India and abroad. HTM GROUP has headquarters in Bangalore, India,

Our servicing facility at Malur Industrial Area with 20,000 sq. ft. of covered floor space area.

PRODUCTS & SERVICES

We have a long trusted association with our overseas Principals.

We are the Authorized Distributors for the following Products:

- **Webtec (UK):** Hydraulic Flowmeters, Hydraulic Testers, Data loggers, Priority Flow Divider Valves, etc.
- **miniBOOSTER (Denmark):** Dynamic Pressure Intensifiers up to 5,000 bar.
- **Dynex (U.S.A):** Check-Ball Piston Pump, High-Pressure Directional Control Valves, and Pressure Control Valves.
- **Stucchi (Italy):** Hydraulic Quick Release Couplings, Multi-Couplings, etc.
- **Spradow (Germany):** Test Couplings, Micro-Bore Hoses, Gauge Adaptors, etc.
- **Roquet (Spain):** Gear Pumps, Gear Pumps with Inbuilt Control Valves, Gear Motors, Mobile DC Valves.
- **Tognella (Italy):** Flow Control Valves, Ball Valves, Gauge Isolator Valves, etc.



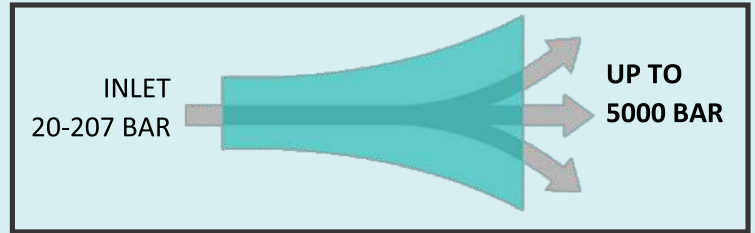
- HTM Products & Servicing facility and Group Company (HFPS) Design and Manufacturing facility at Malur Industrial Area with 20,000 sq. ft. covered space, offers hydraulic systems, test rigs, manifolds, cylinders, etc., covering vast applications.
- Expertise in high pressure application solutions.
- Technically strong in Hydraulics and Automation.
- Excellent long-term relationships with key customers in important industry sectors.
- Exclusive service centre for Webtec (UK) customers in the entire Asia Pacific region.

- Manufacturer of Oscillating type pressure intensifiers for High-Pressure hydraulic application.
- Offers a wide product range including solutions for pressure up to 5,000 bar, flow up to 400 l/min and almost for every fluid media.

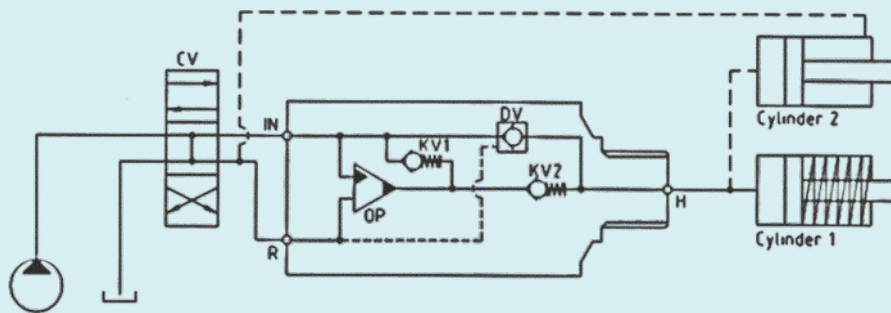


What is miniBOOSTER?

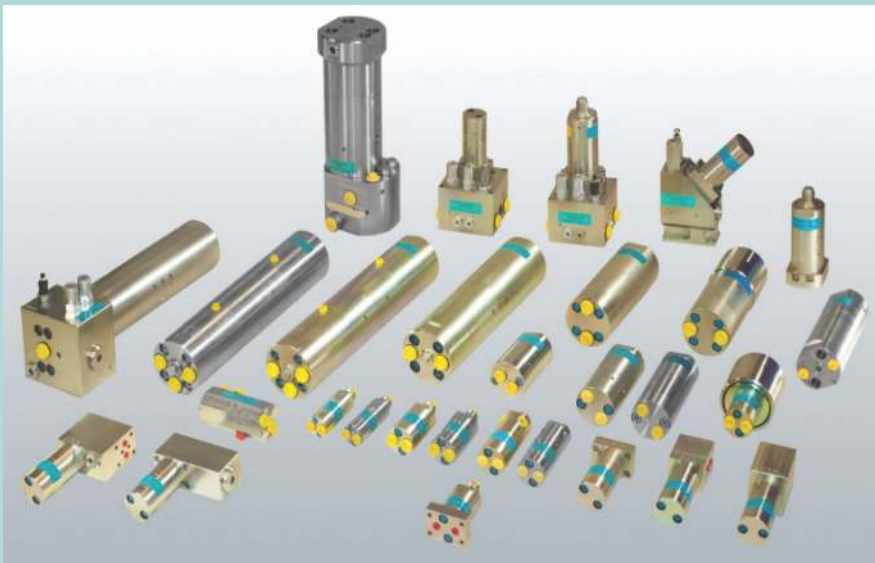
miniBOOSTER is an oscillating pressure intensifier that can be mounted on low-pressure hydraulic systems. The miniBOOSTER will automatically intensify system pressure giving a higher outlet pressure up to 5000 bar.



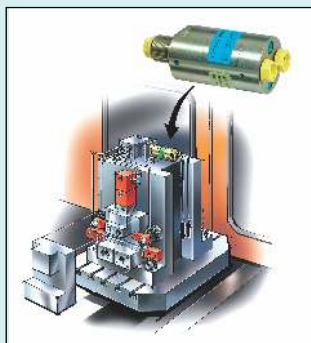
The miniBOOSTERS come in a vast range of models, each representing different functions for different Applications.



Function Diagram



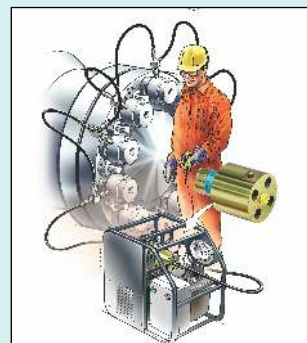
APPLICATIONS



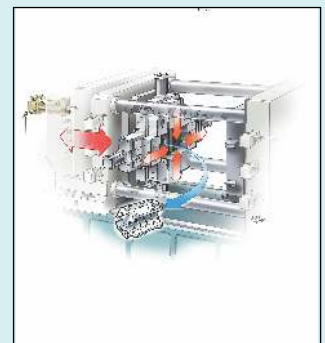
Work Holding



Tyre Curing Press



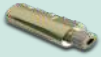





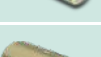

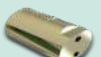




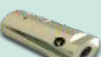


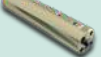
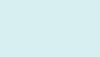
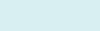
Bolt Tensioning



Aluminium Die Casting

- Manufacturer of Oscillating type pressure intensifiers for High-Pressure hydraulic application.
- Offers a wide product range including solutions for pressure up to 5,000 bar, flow up to 400 l/min and almost for every fluid media.



Outlet Pressure bar	Average outlet flow (l/min)	Inlet pressure (bar)	Inlet flow (l/min)	Connection	Weight (kg)	Ratio	Model: Steel	Model: Stainless steel	Comments	Models
24 - 800	0.3 - 0.5	20 - 207	2.0 - 8.0	• Tube • Flange • Cartridge	0.7	1.2 - 7.5	HC1	HC1W		
24 - 800	0.3 - 2.5	20 - 207	2.0 - 15.0	• Tube • Flange • Cartridge	1.0	1.2 - 20.0	HC2	HC2W		
24 - 800	0.7 - 11.0	20 - 207	2.0 - 15.0	• Tube • Flange	3.8	1.2 - 20.0	HC2D	HC2DW		
80 - 1,380	1.5 - 5.0	20 - 207	2.0 - 14.0	• Tube • Flange	8.0	4.0 - 13.0		HC2DHW		
20 - 800	2.0 - 3.0	20 - 207	2.0 - 15.0	• Tube • Flange	4.15	1.2 - 12.0	HC2D2	HC2D2W	2-media	
80 - 1,380	0.6 - 1.6	20 - 207	2.0 - 8.0	• Tube • Flange	8.0	4.0 - 12.0		HC2D2HW	2-media	
24 - 500	0.3 - 2.5	20 - 207	2.0 - 15.0	• Flange • Cartridge	2.5	1.2 - 20.0	HC3	HC3W		
26 - 800	1.5 - 7.0	20 - 207	2.0 - 35.0	• Tube • Flange	3.7	1.3 - 9.8	HC4	HC4W		
100 - 3,000	1.2 - 3.5	20 - 207	2.0 - 38.0	• Tube • Flange	4.0	5.1 - 17.3	HC4H			
24 - 800	0.3 - 2.5	20 - 207	2.0 - 15.0	• Tube • Flange	3.0	1.2 - 20.0	HC5		Double- acting	
26 - 800	2.5 - 15.0	20 - 207	5.0 - 70.0	• Tube • Flange	9.5	1.3 - 8.2	HC6			
124 - 5,000	1.0 - 7.0	20 - 207	5.0 - 50.0	• Tube • Flange	11.0	6.2 - 25.0	HC6H			
24 - 800	11.2 - 56.0	20 - 207	5.0 - 70.0	• Tube • Flange	20.0	1.2 - 8.2	HC6D	HC6DW		
80 - 1,380	3.0 - 12.5	20 - 207	5.0 - 50.0	• Tube • Flange	35.0	4.0 - 16.0		HC6DHW		
20 - 800	6.0 - 41.0	20 - 207	5.0 - 70.0	• Tube • Flange	24.0	1.0 - 10.1	HC6D2	HC6D2W	2-media	
100 - 2,000	0.3 - 1.6	20 - 207	2.0 - 14.0	• Tube • Flange • Cartridge	1.5	5.0 - 20.0	HC7	HC7W		
100 - 2,000	0.3 - 1.6	20 - 207	2.0 - 14.0	• Tube • Flange • Cartridge	4.5	5.0 - 20.0	HC8			
220 - 5,000	0.3 - 1.8	20 - 207	5.0 - 20.0	• Tube • Flange	9.9	8.2 - 25.0	HC9			
20 - 1,380	2.0 - 5.6	20 - 207	5.0 - 30.0	Tube Flange	25.0	5.2 - 15.0	HC9D2	HC9D2W	2-media	



Test Coupling



- M16*2 X G 1/4"
- Max. pressure 630
- Material: Steel, Stainless Steel
- Seal: NBR Standard; FKM and EPDM on request
- Surface Finish: Zinc Nickel
- Other sizes on request

Pressure Check System Micro Bore Hose



- 2mm Bore
- Max. pressure 630 Bar
- Both ends M16*2
- One end M16*2 another end 1/4" BSP
- Other lengths / dimensions on request

Fitting with Test Coupling



- Series M16*2
- Max. pressure 630 bar
- Materials: Steel, Stainless steel
- Other sizes on request

Direct Pressure Gauge Connector



- M16*2 X G 1/4"; M16*2 X G 1/2"
- Max. pressure 630 bar
- Suitable to receive Gauge of 63mm dial & 100mm dial size

Pressure Gauge Connector



- M16*2 X G 1/4"; M16*2 X G 1/2"
- Max. pressure 630 bar
- Suitable to receive Gauge of 63mm & 100mm dial size



Hydraulic Flow Monitors

- Economical Solution, accuracy 4% of FS
- From 0.5 to 550 lpm; Pressure at 240 bar (AL body) / 420 bar (SS body)
- Available with Switches and analogue output
- Suitable for Oil, Water-Glycol and Phosphate ester



Turbine Flow meters (4-20 mA / 0-5 V Output)

- Accuracy 1% of IR
- Bi-Directional
- 12 Models Covering range from 1-1500 lpm; Pressure upto 420 bar
- With or Without built-in loading valve
- Additional top ports for Pressure & Temperature sensor mounting



Hydraulic In-Line Flow Indicators

- Unidirectional, upto 400 lpm & 420 bar
- Optional Thermometer for temp. reading
- Available in Aluminum body for Hydraulic oil
- And in Brass for Water



Gear Flow Meters (4-20 mA Output)

- Accuracy 0.5% of IR
- Bi-Directional
- Pressure upto 420 bar
- 3 Models covering range from 0.1 - 25 lpm; 0.5 to 70 lpm; 1 -150 lpm



FlowHUB

- Measures and display, flow and temperature readings and also, switch and transmit analogue flow readings.
- Maximum Rated Pressure: 420 Bar
- Maximum Rated Flow: 360 lpm
- Ideal for condition monitoring and test stands applications both for fluid power and lubrication systems.



Mechanical Hydraulic Tester

- Measures Flow rate, Pressure and temperature parameters
- Flow rate upto 270 lpm
- Pressure upto 420 bar
- Available in 5 Flow ranges: 30, 60, 120, 200, & 270 lpm
- With Built-in Loading Valve
- No batteries required



Flow Hour Counters

NEW

- Ideal for recording the operational time of equipments in the hire market
- Monitoring the service interval of attachments
- Recording the time use of shared hydraulic tools between many users
- Battery life: 10+ years
- Max. Flow capacity: 200 lpm; Max. Working Pressure: upto 420 bar.



Digital Hydraulic Multimeter

- Measures Flow rate, Pressure and temperature parameters
- Available in two flow ranges: 400 lpm & 800 lpm
- Pressure upto 480 bar
- Digital Display
- Accuracy 1% of IR





Hydraulic Data Logger - HPM4000

- Two models - Choose B/W SR and CAN Version
- Can connect up to 3 Sensors (6 Channels)
- USB Connectivity up to 4 GB
- Supplied with HPMcomm Software



Variable Priority Flow Divider Valve

- Working Pressure upto 420 bar
- Flow capacity upto 190 lpm
- Pressure compensated permitting both 'Priority' and 'By-Pass line' to be used simultaneously at varying pressures without affecting the 'Priority' flow rate



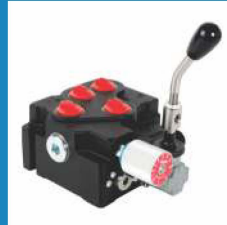
Hydraulic Data Logger - HPM7000

- Highly versatile portable hydraulic data logger
- Connects upto 48 Webtec CAN Channels and 5 External Third party CAN channels
- 7-inch colour touch display
- Can be controlled and monitored remotely using the LAN connection and a VNC remote desktop application



Combination Valves - Variable Priority Flow Divider with Directional Control

- Max. Operating Pressure: 250 bar
- Total Flow Capacity: 120 lpm
- Regulated Flow capacity: 0-95 lpm
- Material: Steel components in cast iron body



Data Loggers Sensors (SR & CAN)

- Turbine Flowmeter - Flow rate up to 750 lpm / Pressure rated up to 420 bar
- Pressure transducer up to 1000 bar
- Temperature Sensor (-40 to 150 deg C)
- Speed Sensor
- Current & Voltage Input converters for custom sensors



Stainless Steel Rotary Directional Control Valve

- Zero leakage
- Max. Operating Pressure upto 700 bar
- Max. Flow upto 38 lpm
- Porting: Side ported- BSP, NPT, SAE or Manifold Ports



Digital Pressure Gauge

- Pressure rating upto 600 bar
- Optional data logger version with real time clock records both current measured values, min. and max. values
- Accuracy of $\pm 0.5\%$ Full Scale



Loading Valve - HV Series

- Smooth progressive pressure control with INTERPASS safety disc features
- Maximum Rated Pressure: 420 Bar
- Maximum Rated Flow: Up to 800 lpm



- © Dynex manufactures hydraulic components and systems for use on mobile and industrial, oil & gas and heavy machinery.
- © Specialized in Checkball Piston Pumps, Motors, and Valves for High-Pressure applications.



PF Series Fixed Pump



- For High-pressure applications and extreme conditions including dirty environments, extreme temperatures, and long & difficult duty cycles.
- Compatible with various water-based, phosphate ester and MIL-SPEC fluids makes these pumps ideal for testing aerospace components.
- One split-flow pump can supply independent flows from upto ten separate outlets.
- Output flow range: 0.5 lpm-110.5 lpm; Max. pressure: upto 1380 Bar.

High Pressure Directional Control Valves



Dynex directional control valves offer high pressures of upto 700 bar, with a high flow capability of flows to 151 lpm are possible.

- Actuator options include: Manual Lever, Direct Solenoid, Hydraulic Piloted and Air piloted.
- Multiple Flow patterns are available. *For additional information contact sales team.
- Fluid Viscosity: 7-323 cSt.
- Applications: Used on a wide variety of Industrial, Mobile, Oil & Gas, Hydraulic press and Portable tools.

PF Series Water Based Fluid Pump



- These pumps are compatible with water glycol as well as a variety of water-based and other low-lubricity fluids.
- They can operate at pressures to 1040 Bar on wellhead control systems both on-and offshore around the world.
- Output flow range of 1 lpm-30 lpm.
- Dynex single fluid design eliminates the need for a separate lubrication circuit, resulting in less space, labour, piping and lower ongoing maintenance cost.

Pressure Control Valves

Dynex pressure control valves offer high pressures of upto 1040 bar, with a high flow capability of flows to 151 lpm are possible.

- Available as a Relief, Reducing, Unloading, Decompression, Counterbalance and Sequence Valve.
- Suitable for use with some water-based, fire-resistant, and other special fluids including water glycol, various military fluids, Skydrol and phosphate ester fluids.
- Mounting: Line connected, Subplate mounted, Balanced spool type, Poppet style and Panel mounted.
- Proportional control using either 10VDC or 24VDC Solenoids.



PV Series Variable Delivery Pump



- These pumps supply infinitely variable flow controlled by the linear movement of a volume stem control.
- On hydraulic variable delivery pumps, the output is regulated by an external low-pressure control signal supplied to a control port in the cover.
- Variable delivery PV 6000 series pumps are used on drill rigs to power the drill rotation, drill pressure, mast movement and propulsion.
- They are proven to be rugged and reliable even when subjected to shock, vibration and long duty cycles.

Sandwich Valves



- Max. Pressures up to 700 bar; Max. Flow up to 38 lpm
- Perfect for use with Dynex high-pressure HP03 Directional Control Valves.
- Available in Check, Relief, and Decompression Functions.
- Used on machine tools and other demanding industrial, mobile, and marine applications.

Stucchi (Italy):

- Leading manufacturer of quick couplings, multi-coupling plates and hydraulic quick-connect solutions.
- Provides quick connecting solutions for Earthmoving machinery, Oil and gas applications, Farm Equipment, Hydraulic tools, and Cooling applications.



Flat Face – Carbon Steel



Series: FIRG / A
Interchange: ISO 16028
Sealing: NBR or FKM
Sizes: From 1/4" to 2"
Flow rate: Up to 1000 l/min
Operating pressure: Upto 330 bar & 420 Bar

Flat Face – Connectable with Residual Pressure

Series: APM / A-HD
Sealing: NBR
Sizes: From 3/8" to 1-1/2"
Flow rate: Up to 750 l/min
Operating pressure: Up to 350 bar
Material / Treatment: CS / Cr3
Connection under pressure: One side



Flat Face- For, Medium Corrosive Environment



Series: FIRG-Q
Sizes: From 1/4" to 2"
Flow rate: Up to 1000 l/min
Operating pressure: Up to 300 bar
Sealing: NBR, FKM, EPDM, Kalrez®
Material / Treatment: CS, SS (AISI 316L) / QP
High Temperature with Kalrez Seal upto 300 deg. C

Flat Face- For, Highly Corrosive Environment

Series: AX / FL
Sizes: From 1/8" to 2"
Flow rate: Up to 1000 l/min
Operating pressure: Up to 350 bar
Sealing: FKM, NBR, EPDM, Kalrez®
Material / Treatment: SS (AISI 316L)
High Temp. with Kalrez Seal upto 300 deg. C



Flat Face- Screw Type



Series: VP/ VEP-P/ VEP-HD
Sealing: Nitrile NBR
Sizes: From 1/4" to 2"
Flow rate: Up to 1000 l/min
Operating pressure: Up to 600 bar
Material / Treatment: CS / Cr3, QPQ, (Zn-Ni)
Connection under pressure: Allowed on both sides

Poppet Type

Carbon Steel Series: BIR/ IRB
SS or Brass Series: IRBX/ IRBO
Interchange: ISO 7241 A / B
Sealing: NBR, FKM, EPDM
Sizes: From 1/4" to 2"
Flow rate: Up to 1000 l/min
Operating pressure: Up to 350 bar



High Pressure



Series: A-HP / IV-HP
Sealing: NBR
Sizes: From 1/8" to 3/8"
Flow rate: Up to 46 l/min
Operating pressure: Up to 700 bar
Material / Treatment: CS / Cr3

Multi Couplings

Valve Style: Flat Face
Sizes: From 3/8" to 1"
Flow rate: Up to 378 l/min
Operating pressure: Up to 700 bar
Material / Treatment: CS / Cr3
Connection lines up to 10 lines



Saturn Block



Sizes: From 1/2" to 3/4"
Interchange: ISO 16028
Flow rate: Up to 200 l/min
Operating pressure: Up to 350 bar
Material / Treatment: CS / Cr3

Protective Dust Caps

Material: Plastic / Aluminium
Usage: To protect coupling from damage, Dirt Inclusion.
Advantage: Improves product life



**Tognella (Italy):**

- Leaders in design, production and distribution of hydraulic check and regulation components and valves.
- Produce Valves for every kind of application; flow regulation, cartridge type, single-acting, cetop, stackable and pressure-compensated, and also solenoid valves.



Flow Rate Control Valves

Material: Carbon Steel, S.S (AISI 316), Brass
Style: Single Acting/ Double Acting.
Size: 1/8" to 2"
Threads: BSPP, NPT on request
Flow range: 0.05- 200 l/min.
Max. Working Pressure: upto 400 Bar



Check Valves

Material: Carbon Steel / S.S (AISI 316)
Function: Ball type/ Piston type
Style: Non-Pilot, Single/double Pilot Valve
Size: 1/8" to 2"
Flow range: upto 850 l/min.
Max. Working Pressure: upto 400 Bar



Cartridge Flow Control Valves

Material: Carbon Steel, S.S (AISI 316), Brass
Style: Single Acting/ Double Acting.
Size: 1/8" to 1"
Threads: Metric, BSPP, UNF.
Flow range: 0.05- 200 l/min.
Max. Working Pressure: upto 320 Bar



Ball Valves

Material: Carbon Steel, S.S (AISI 316)
Function: 2-Way / 3- Way
Size: 1/4" to 2"
Threads: BSPP, NPT on request
Max. Working Pressure: up to 500 Bar



Cetop Flow Control Valves

Material: Carbon Steel
Style: Single Acting/ Double Acting.
Size: Cetop 3 (03) and (06)
Flow range: 0.1- 80 l/min.
Max. Working Pressure: upto 250 Bar



Gauge Isolator Valves

Material: Carbon Steel, S.S (AISI 316)
Style: In-line / 90° gauge isolator
Function: Needle type/ Manual Push Button
Max. Working Pressure: upto 400 Bar



Stackable Valves

Material: Carbon Steel
Style: Single Acting/ Double Acting/ Check Valve/ Pressure Reducing/
Pressure Relief/ Pilot Valve
Size: Cetop 3 and Cetop 5
Flow range: 0.5- 70 l/min.
Max. Working Pressure: upto 320 Bar



Adjustable Pressure Switches

Material: Carbon steel / Aluminium / Brass
Pressure setting range: Available from 0.2 -630 bar
Switch rating: 220VAC / 48VDC
Electrical contact: SPDT / NO-NC
Protection degree: IP65
Electrical connection type: DIN 43650-A / PUSH-ON
Actuation Type: Piston / Diaphragm

- Produces aluminium and cast-iron bodied gear pumps and motors from 0.33-150 cm³/rev.
- All covers are cast-iron which reduces noise, increases life and makes possible in-built valves for Pressure and speed control, etc.



Gear Pumps / Motors

- Noise level < 75 dBA
- Displacement 0.33 cc/rev to 150 cc/rev
- Pressure upto 300 Bar
- Body: Aluminium or Cast Iron



Tandem Gear Pumps

- Displacement 0.33 cc/rev to 150 cc/rev
- Pressure upto 300 Bar
- Body: Aluminium or Cast Iron



Gear Pumps / Motors with Inbuilt Control Valves

- Gear pumps/motor back covers with integrated valves are available in the new G-series.
- Displacement 4 – 26.7 cc/rev
- Pressure upto 300 Bar
- Integrated Valves like Relief valve, Low pressure relief valve, Proportional relief valve, Check valve, Flow control valve, Priority flow control valve, and Combinational Valves can be integrated along with Pumps/ Motors.



Back-Hoe Loader Pumps

- Displacement: Front and Rear pump- 24 cc/rev
- Pressure upto 250 bar
- Max. Speed 3000 rpm
- Operating temperature continuous 0°C to 80°C
- Pump suitable to JCB 3D & 3DX model (1:1)



Mobile Control Valves

- Flow rate: 40 to 300 lpm
- Working Pressure upto 350 bar
- Types: Monoblock & Sectional with spool 1 to 6
- Actuation: Manual/ Solenoid operated/ Hydraulic pilot/ Pneumatic pilot operated



Customised Power Packs



HTM HYDRAULICS PVT. LTD.

ISO 9001:2015 Certified Company

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