

OSANTS HYDRAULICS 2026 CATALOG

CUSTOM ENGINEERED TO MEET
YOUR REQUIREMENTS



VALVE
SYSTEMS



MANIFOLD
BLOCKS



CYLINDERS



HYDRAULIC
MOTORS



POWER PACKS
& UNITS



OPEN LOOP
SYSTEMS



CLOSED LOOP
SYSTEMS

BUILT FOR EVERY APPLICATION



CONSTRUCTION



AGRICULTURE



MATERIAL HANDLING



MINING



INDUSTRIAL AUTOMATION



MARINE



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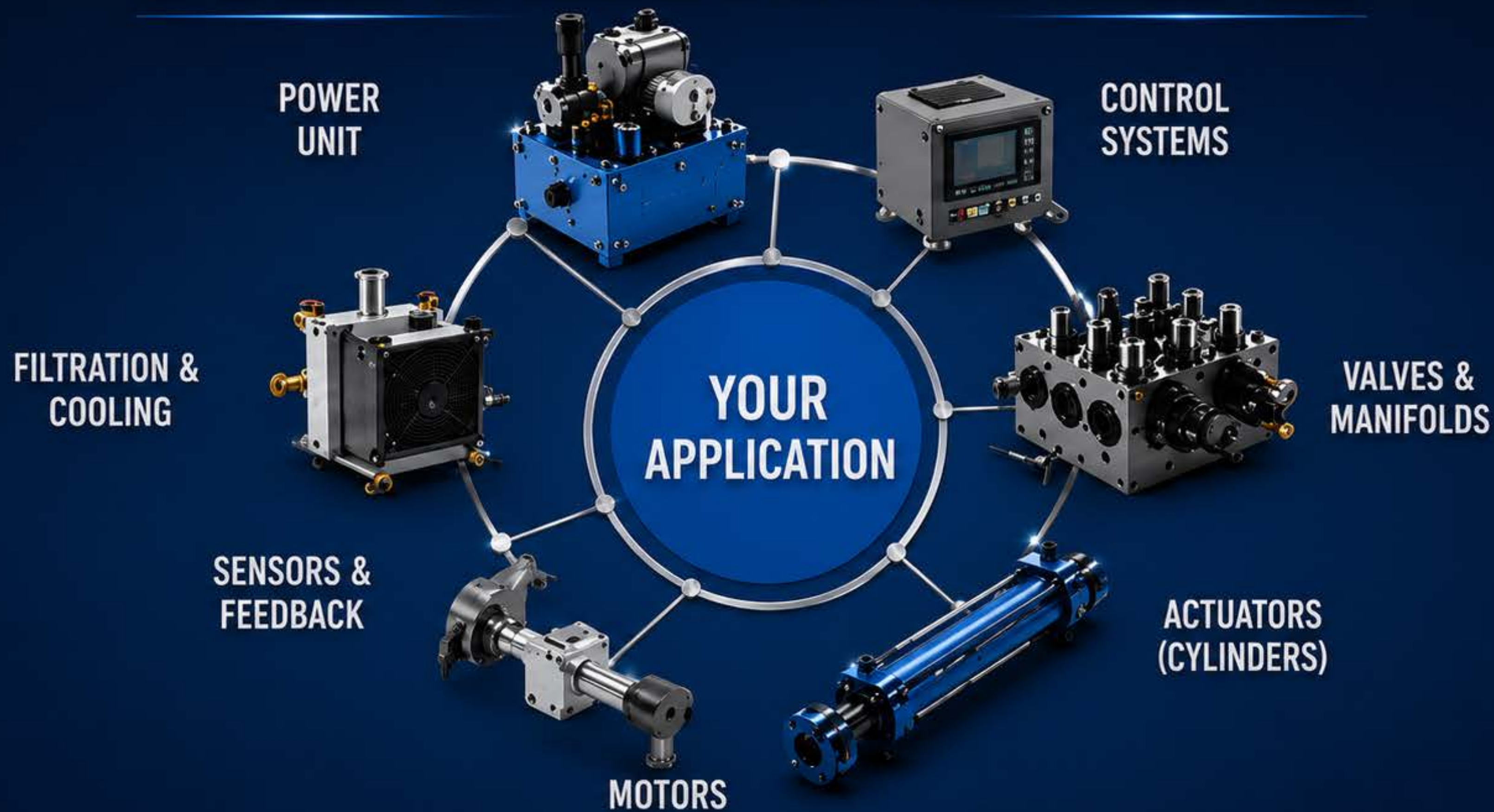


projects@osants.com



Download Catalog

SYSTEM INTEGRATION CAPABILITIES



Seamless component
integration



Optimized system
performance



Reduced installation
time



Lower operating
costs



Built to your exact
specifications

SELECT YOUR CUSTOM HYDRAULIC SOLUTION

Engineered to Perform. Built to Last. Designed for You.



VALVE SYSTEMS

Precise control for every application



MANIFOLD BLOCKS

Custom manifolds for compact, efficient systems



HYDRAULIC CYLINDERS

Reliable linear motion for the toughest jobs



HYDRAULIC MOTORS

High torque, efficient power in a compact size



POWER PACKS & POWER UNITS

Complete power solutions ready to perform



OPEN LOOP SYSTEMS

Simple, reliable, and cost-effective performance



CLOSED LOOP SYSTEMS

Superior efficiency and precision control

PRODUCT FAMILY COMPARISON

FEATURES	VALVE SYSTEMS	MANIFOLD BLOCKS	HYDRAULIC CYLINDERS	HYDRAULIC MOTORS	POWER PACKS & UNITS	OPEN LOOP SYSTEMS	CLOSED LOOP SYSTEMS
Function	Control flow, pressure, direction	Distribute & manage flow	Linear motion	Rotary motion	Generate & supply hydraulic power	Basic flow control	Precision flow & motion control
Control Precision	High	High	High	High	N/A	Moderate	Very High
Efficiency	High	High	High	High	High	Good	Excellent
Customization	Very High	Very High	Very High	High	Very High	Moderate	Very High
System Complexity	Moderate	Moderate	Low	Moderate	Moderate	Low	High
Typical Applications	All industries	Mobile & industrial equipment	Construction, agriculture, marine	Winches, drives, conveyors	All mobile & industrial systems	General purpose equipment	High performance & precision systems

VALVE SYSTEMS

PRECISION HYDRAULIC CONTROL

OSANTS Valve Systems deliver reliable, precise flow and pressure control for a wide range of hydraulic applications. Engineered for performance, durability and efficiency.

OSANTS

KEY FEATURES



HIGH FLOW CAPACITY

Engineered for demanding applications and high flow requirements.



PRECISION CONTROL

Delivering accurate and repeatable performance every time.



COMPACT DESIGNS

Space-saving solutions for modern, compact hydraulic systems.



CUSTOM CONFIGURATIONS

Tailored to meet your unique system and application needs.

OUR VALVE SOLUTIONS

DIRECTIONAL CONTROL VALVES



Control the start, stop and direction of fluid flow in your system.

PROPORTIONAL VALVES



Infinitely variable control for accurate pressure, flow and force.

FLOW CONTROL VALVES



Regulate flow rate to optimize speed and system performance.

PRESSURE RELIEF VALVES



Protect your system from overpressure and ensure safety.

CARTRIDGE VALVES



Compact, reliable and ideal for manifold integrated solutions.

BUILT FOR DEMANDING APPLICATIONS

CONSTRUCTION



Reliable control in the toughest environments.

MINING



High performance and durability for heavy-duty operations.

INDUSTRIAL AUTOMATION



Precision and repeatability for automated systems.



ENGINEERED TO INTEGRATE

Seamlessly integrate our valve systems into your custom hydraulic solutions for maximum efficiency and reliability.

OSANTS HYDRAULIC CYLINDERS

RELIABLE LINEAR MOTION SOLUTIONS

OSANTS hydraulic cylinders are engineered for strength, durability and precise performance in the toughest working conditions.



Precision Seals
Maximum Reliability

CYLINDER TYPES

TIE-ROD CYLINDERS



- High strength
- Easy maintenance
- Versatile mounting

WELDED CYLINDERS



- Compact design
- Heavy duty
- High pressure

TELESCOPIC CYLINDERS



- Multi-stage extension
- Long reach
- Space saving

CUSTOM CYLINDERS



- Built to your specs
- Unique applications
- Custom mounts

ENGINEERED TO DELIVER



HIGH STRENGTH

Built for demanding loads and cycles



PRECISE CONTROL

Smooth operation and accurate positioning



DURABLE CONSTRUCTION

Premium materials and advanced design



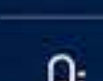
CUSTOM SOLUTIONS

Designed to meet your exact requirements

ENGINEERING EXCELLENCE



SPECIFICATIONS

	Bore Sizes	25 mm (1") – 320 mm (12 1/2")
	Stroke Lengths	Up to 6000 mm (235")
	Pressure Ratings	Up to 350 bar (5076 psi)
	Mounting Styles	Clevis, Trunnion, Flange, Pivot, Foot, Rod End & more
	Materials	High strength steel, chrome rod, custom coatings
	Temperature Range	-40°C to +120°C (-40°F to +248°F)

CAD DESIGN & CUSTOM ENGINEERING



3D modeling • Simulation • Prototyping • Testing

MANIFOLD BLOCKS

CUSTOM HYDRAULIC MANIFOLDS

OSANTS designs and manufactures custom hydraulic manifold blocks that integrate multiple functions into a single, compact solution. Engineered for performance, reliability, and easy integration into your system.

SOLUTIONS



INTEGRATED HYDRAULIC CIRCUITS

Combine multiple functions into one manifold for optimized performance.



CUSTOM MANIFOLD DESIGN

Tailored to your exact specifications, performance requirements, and installation constraints.



CARTRIDGE VALVE INTEGRATION

Seamless integration of industry-standard cartridge valves for flexibility and serviceability.



COMPACT SYSTEM ARCHITECTURE

Save space and reduce complexity with compact, high-performance manifold solutions.



BENEFITS



REDUCED LEAK POINTS

Fewer connections mean less risk of leaks and improved reliability.



SIMPLIFIED INSTALLATION

Pre-assembled and tested for faster installation and commissioning.



LOWER MAINTENANCE

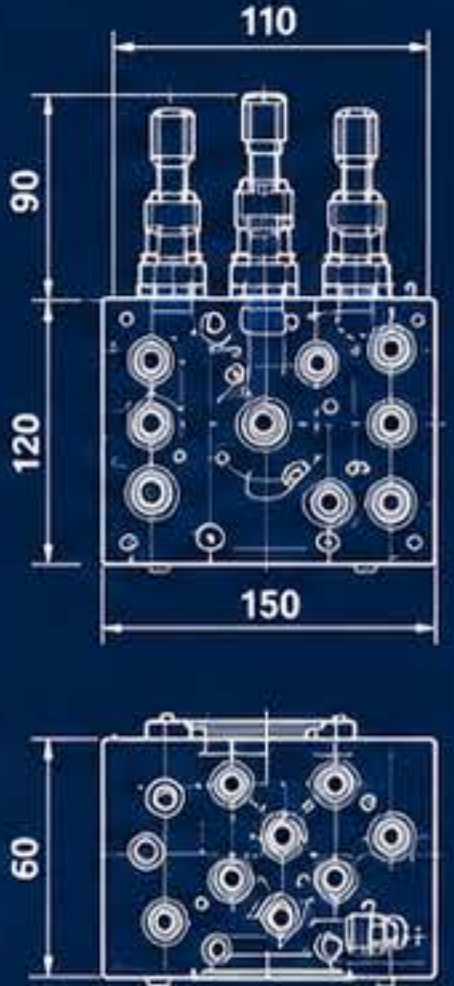
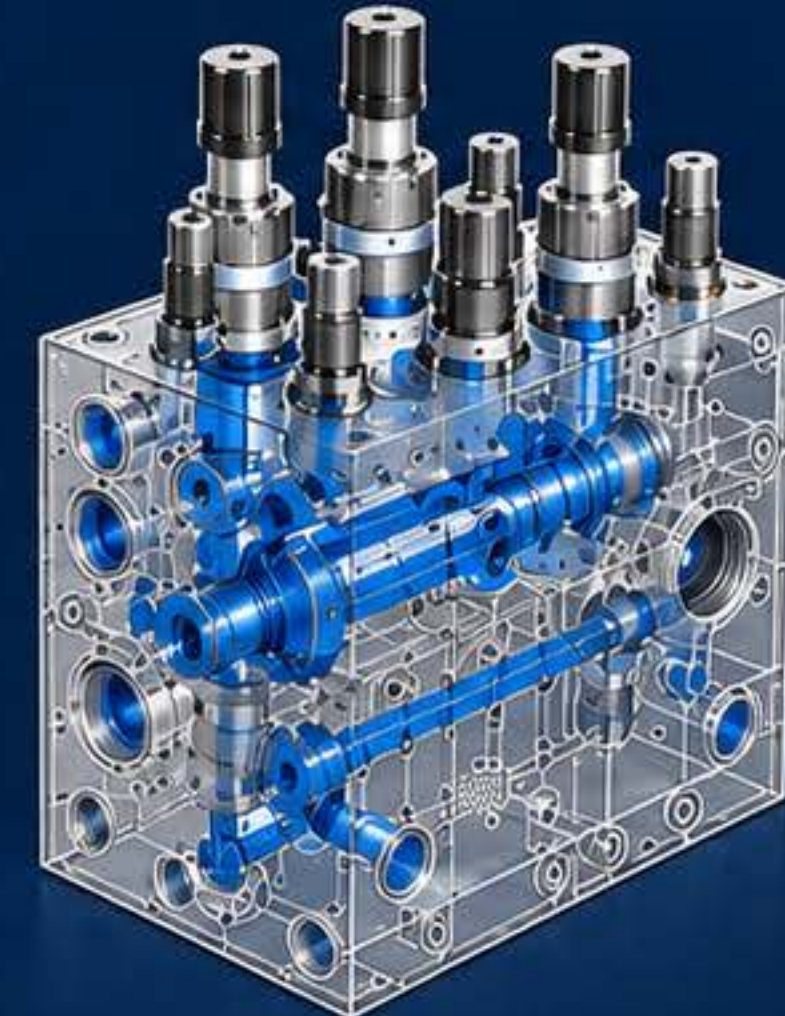
Centralized design for easier access and reduced downtime.



IMPROVED EFFICIENCY

Optimized flow paths and reduced pressure losses boost system efficiency.

CAD ILLUSTRATIONS



DESIGN EXAMPLES



EXCAVATOR
CONTROL MANIFOLD



MOBILE EQUIPMENT
MANIFOLD



INDUSTRIAL MACHINE
MANIFOLD



POWER UNIT
MANIFOLD



CUSTOM
COMPACT MANIFOLD

ENGINEERED FOR YOUR APPLICATION

Every manifold is custom designed, engineered, and tested to meet your specific performance, size, and interface requirements.



3D CAD DESIGN
& SIMULATION



FLOW ANALYSIS
& PERFORMANCE
OPTIMIZATION



IN-HOUSE
MANUFACTURING
& TESTING



BUILT TO MEET
INDUSTRY
STANDARDS

OSANTS

HYDRAULIC MOTORS

HIGH-PERFORMANCE DRIVE SYSTEMS

OSANTS hydraulic motors convert hydraulic power into reliable rotational motion for the toughest applications. Engineered for high performance, efficiency, and durability in demanding operating conditions.

GEAR MOTORS



Compact and efficient with high starting torque and smooth operation.

PISTON MOTORS



High power density and efficiency for heavy-duty applications.

ORBITAL MOTORS



Robust design with high torque at low speeds and excellent reliability.

CUSTOM MOTOR ASSEMBLIES



Tailored solutions engineered to meet your exact performance and installation requirements.

KEY FEATURES



HIGH TORQUE

Delivers superior torque for demanding loads and tough conditions.



VARIABLE SPEED OPERATION

Precise speed control for maximum flexibility and application performance.



COMPACT FOOTPRINT

Space-saving designs for easy integration into tight installations.



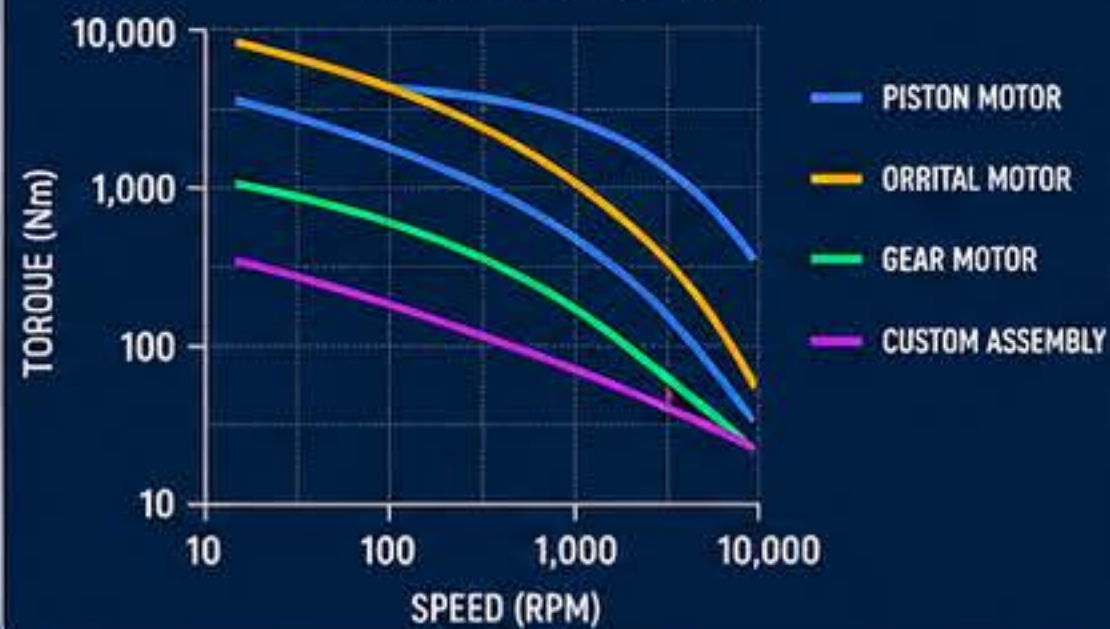
LONG SERVICE LIFE

Built with premium materials and proven technology for extended durability.

PERFORMANCE CHARTS

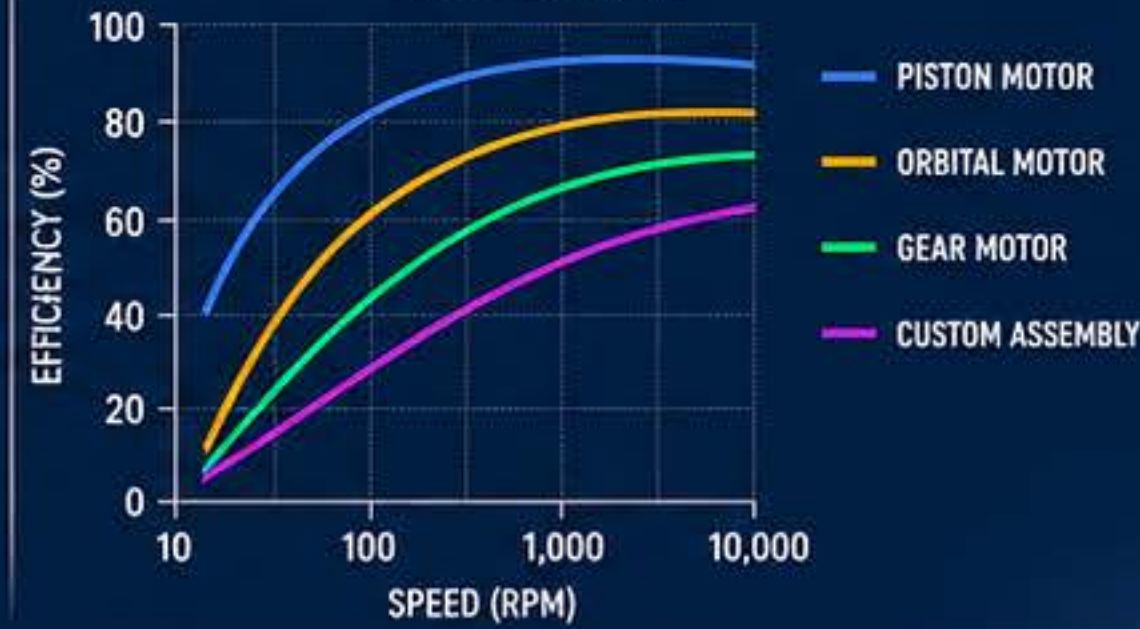
TORQUE vs SPEED

Typical Output Torque (Nm)



EFFICIENCY CURVES

Overall Efficiency (%)



TYPICAL SPECIFICATIONS

SPECIFICATION	RANGE
 Displacement	8 – 10,000 cm ³ /rev
 Max. Continuous Torque	Up to 20,000 Nm
 Max. Speed	Up to 6,000 RPM
 Max. Pressure	Up to 450 bar (6,525 psi)
 Efficiency	Up to 95%
 Operating Temperature	-40°C to +120°C
 Mounting Options	SAE, ISO, Custom
 Porting Options	SAE, BSPP, NPT, Custom

CAD DESIGN & CUSTOM ENGINEERING



3D modeling



Simulation

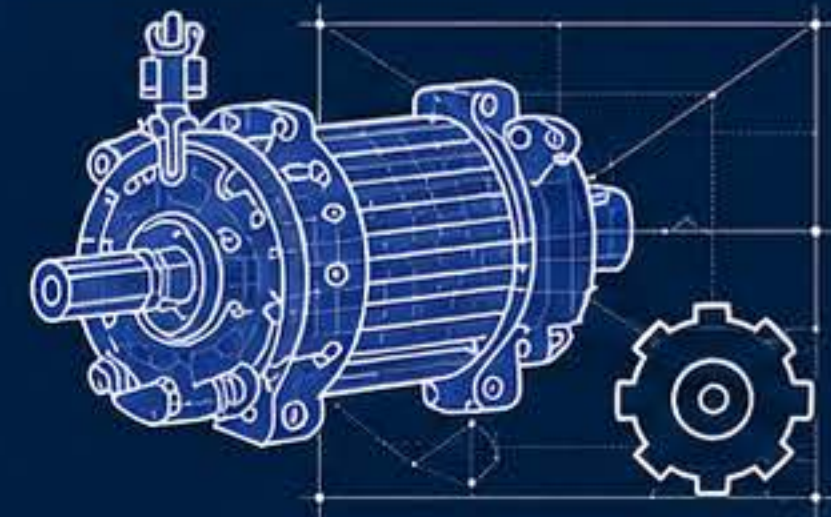


Prototyping



Testing

From concept to production, OSANTS delivers custom motor solutions designed for your application, performance, and environment.



POWER PACKS & POWER UNITS

OSANTS

COMPLETE HYDRAULIC POWER SOLUTIONS

OSANTS power packs and power units are engineered to deliver reliable hydraulic power for any application. From compact standard units to fully customized systems, we provide complete solutions that are efficient, durable, and built to perform.

KEY BENEFITS



RELIABLE HYPERFORMANCE

Consistent hydraulic power when and where you need it.



ENERGY EFFICIENT

Optimized design reduces power consumption and operating costs.



BUILT TO LAST

High-quality components and rigorous testing ensure long service life.



CUSTOM SOLUTIONS

Tailored to your exact requirements and application needs.

STANDARD POWER UNITS



Pre-engineered units for general hydraulic applications. Reliable, cost-effective, and ready to install.

COMPACT POWER PACKS



Space-saving designs that deliver high performance in a compact footprint. Ideal for mobile and industrial equipment.

MOBILE HYDRAULIC SYSTEMS



Rugged and portable hydraulic power for job sites and off-road applications. Built for durability and easy transportation.

CUSTOM ENGINEERED UNITS



Fully customized power units designed to meet your unique specifications and performance requirements.

QUALITY COMPONENTS. OPTIMAL PERFORMANCE.

We use premium components from trusted manufacturers to ensure reliability and efficiency.

RESERVOIRS



Steel or aluminum tanks in various sizes and configurations.

PUMPS



Gear, vane, and piston pumps to match your flow and pressure needs.

FILTRATION SYSTEMS



High-efficiency filters and breathers for clean, reliable operation.

ELECTRONIC CONTROLS



Advanced controls, sensors and CAN/PLC systems for precise operation.

FLEXIBLE POWER & CONTROL OPTIONS

Configure your power unit to match your application and operating environment.



AC/DC POWER

Electric motor options in a variety of voltages and configurations.



DIESEL DRIVEN

High-performance diesel engines for demanding mobile applications.



PLC INTEGRATION

Seamless PLC and HMI integration for automated and remote operation.



OSANTS

OPEN LOOP & CLOSED LOOP SYSTEMS

SYSTEM ARCHITECTURE SOLUTIONS

OSANTS designs and engineers both open and closed loop hydraulic systems to match your performance, efficiency, and operational requirements. From simple, cost-effective solutions to advanced, high-precision systems, we deliver reliability and performance you can count on.



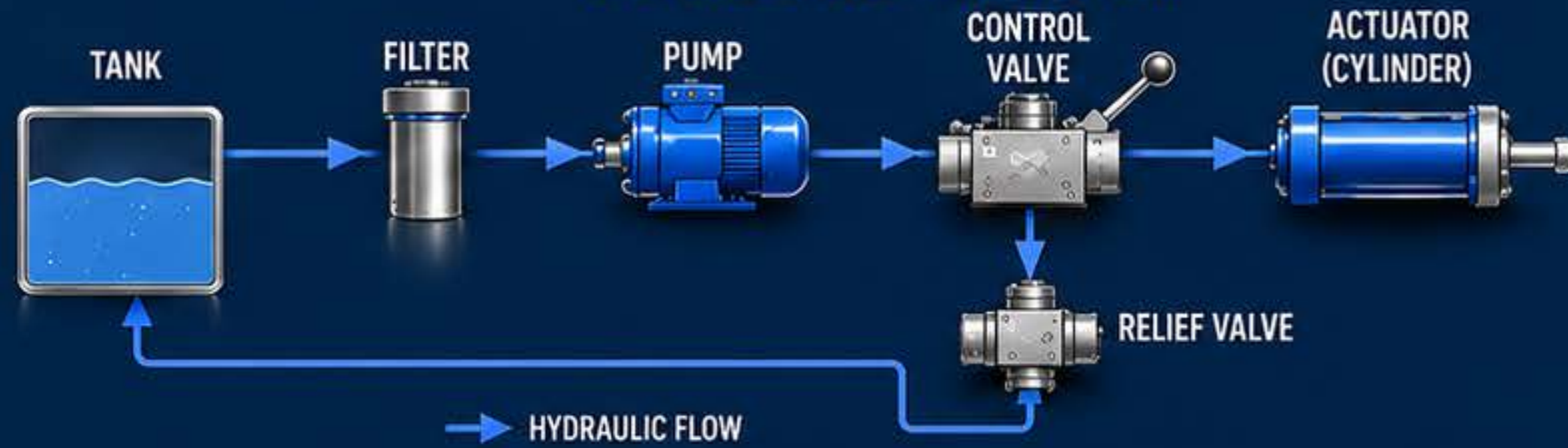
OPEN LOOP SYSTEMS

- SIMPLICITY**
Straightforward design for easy operation and maintenance.
- COST EFFICIENCY**
Lower initial investment and reduced complexity for cost-effective solutions.
- RELIABILITY**
Proven technology that delivers dependable performance.

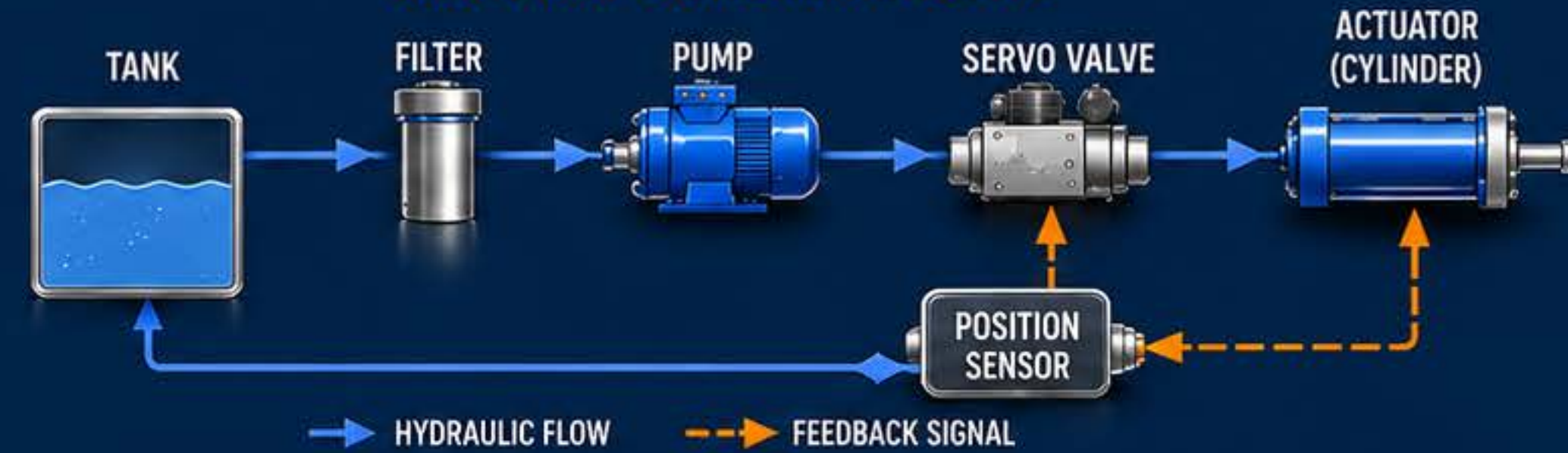
CLOSED LOOP SYSTEMS

- PRECISION CONTROL**
Advanced feedback provides superior accuracy and repeatability.
- ENERGY EFFICIENCY**
Optimized performance reduces energy consumption and operating costs.
- DYNAMIC PERFORMANCE**
High responsiveness and consistent performance in demanding applications.

OPEN LOOP SYSTEM ARCHITECTURE



CLOSED LOOP SYSTEM ARCHITECTURE



KEY DIFFERENCES

- Open loop systems** are ideal for simple applications where cost and reliability are priorities.
- Closed loop systems** are best suited for applications requiring high accuracy, efficiency, and dynamic performance.

OPEN LOOP vs CLOSED LOOP COMPARISON

FEATURE	OPEN LOOP	CLOSED LOOP
Efficiency	Good	Excellent
Control Precision	Moderate	High
Cost	Lower	Higher
Applications	General Machinery	High-Performance Equipment

BUILT FOR YOUR SUCCESS

Whether you need the simplicity of an open loop system or the advanced control of a closed loop system, OSANTS delivers custom-engineered solutions that maximize productivity, reliability, and efficiency.

ENGINEERED SOLUTIONS

PROVEN RELIABILITY

EXPERT SUPPORT



ENGINEERED FOR **PERFORMANCE.** BUILT FOR **RELIABILITY.**

Custom metal solutions designed for precision, quality, and long-lasting performance.



PREMIUM QUALITY

Manufactured to international standards.



PRECISION ENGINEERED

Tight tolerances for optimal performance.



WIDE APPLICATIONS

Solutions for industrial, automotive, and heavy equipment.



RELIABLE & DURABLE

Built for long service life and demanding conditions.



GET IN TOUCH



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