

# PRODUCT GUIDE

*Oil-Air Products is a full line hydraulic and pneumatic Factory Warehouse for the world's premiere manufacturers. With our extensive experience in the fluid power industry, we are able to provide innovative and cost effective solutions to all your fluid power requirements.*



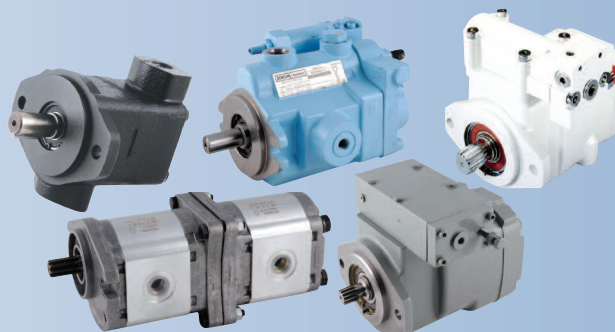
- Full Line Hydraulic and Pneumatic Factory Warehouse
- Fluid Power Systems Design and Fabrication
- Hose Assemblies and Connectors
- IMS (Inventory Management Solutions)
- Field Service and Repair



*Fluid Power Specialists*

## **PUMPS**

- Gear 0.0116 – 39.92 cipr 3800 PSI Continuous
- Two Stage (High-Low)
- Vane 0.35 – 16.4 cipr 4200 PSI Continuous
- Piston 0.66 – 33.0 cipr 6000 PSI Continuous
- Pressure Compensator, Variable Volume, Torque Limiter, Load Sensing, Electric, Hydraulic, and Servo Control
- Min and Max Volume Controls
- Single, Double, and Triple Configurations available



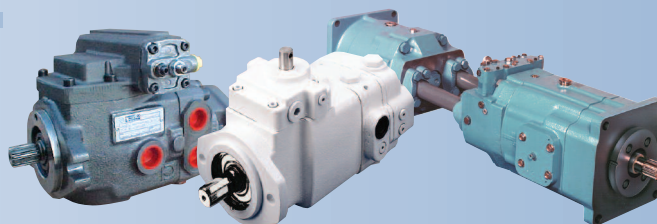
## **MOTORS**

- Fixed Displacement
  - Gear 0.085 – 5.3 cipr
  - Gerotor, Gerolator 0.49 – 48.9 cipr
  - Vane 0.73 – 13.55 cipr
  - Axial Piston 6.0 – 30.0 cipr
  - Radial Piston 2.0 – 1405 cipr
- Variable Displacement
  - Axial Piston 1.28 – 30.0 cipr
  - Radial Piston 7.39 – 164.8 cipr
- Fractional through 636 HP
- Continuous Pressures up to 6000 PSI
- Steering Components



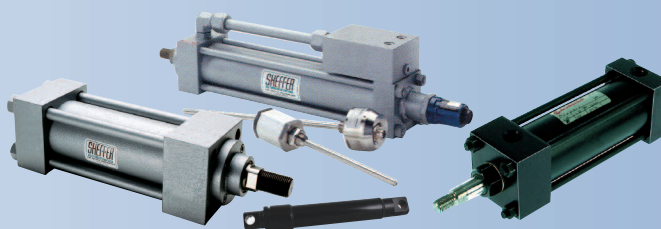
## **HYDROSTATIC TRANSMISSIONS**

- Fixed and Variable Displacement
- 0.66-30.0 cipr
- 5000 PSI Continuous Pressure
- Multiple Control Combinations Available



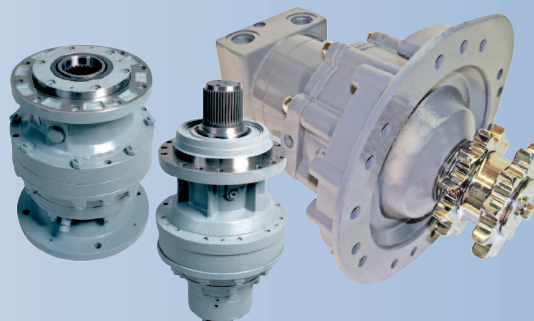
## **HYDRAULIC CYLINDERS**

- NFPA Tie Rod: 1 1/8" to 24" Standard Bore Size's
- Mobile Tie Rod and Welded
- Smart/Feedback (Electronic Positioning Cylinders)
- Mill Type
- Intensifiers
- Telescopic
- Custom up to 54" Bore Size's, Stokes up to 100'

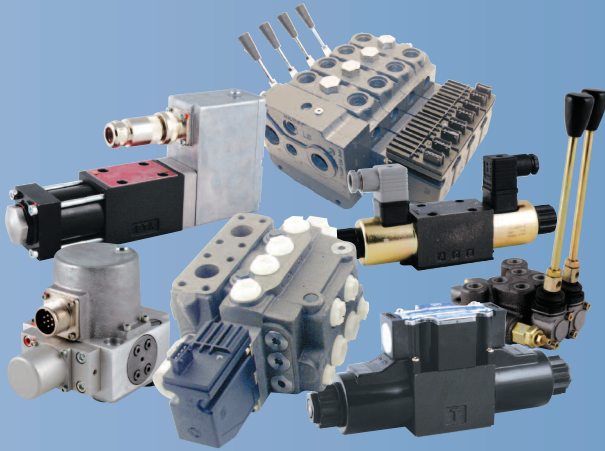


## **PLANETARY GEARBOXES**

- Modular construction
- External or internal output shaft, shrink disc and right angle styles
- Adapters to fit any hydraulic or electric motor
- Brake options: wet disc
- Torque output – up to 958,000 ft-lbs
- Input speeds to 4500 RPM
- 2000 HP maximum
- Ratios: 3.5:1 to 5,315:1

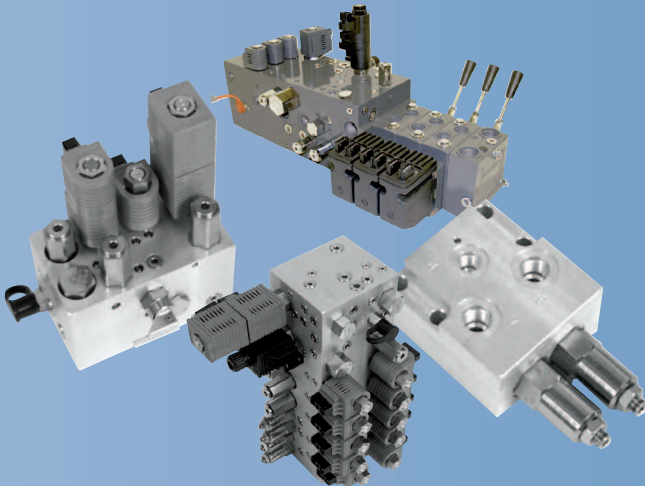






### VALVES

- Valves to control pressure, flow and direction
- Inline ISO/NFPA subplate or stackable configurations for all mobile and industrial application
- NFPA D03 – D10 Solenoid, Hydraulic, Pneumatic, Lever Operated. Flows up to 210 GPM at 5000 PSI
- Monoblock and stackable designs
- Proportional and Servo Configurations



### INTEGRATED CIRCUIT MANIFOLDS

- Computer aided designs to customer specifications
- Pressure up to 5000 PSI
- Flow: Individual cartridges up to 750 GPM. Higher flows on request
- Proprietary designs to control individual functions or the entire machine
- Material: Aluminum, Steel or Ductile Iron Bar Stock. Castings for large quantities
- Screw in or DIN style slip in cartridges. ISO/NFPA subplate mounted and manifold mounted valves
- 100% tested to customer specifications



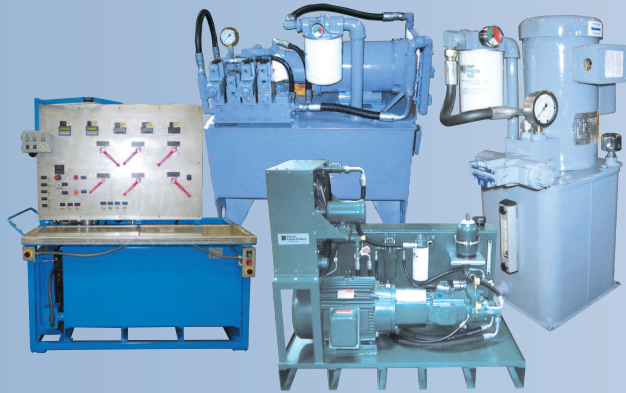
### CARTRIDGE VALVES

- Valves to control pressure, flow and direction
- Zero Leak
- Proportional Direction, Pressure and Flow
- Screw in or DIN style slip in styles
- Solenoid, manual, hydraulic, pilot and pneumatic pilot operators
- Poppet and spool designs
- Pressure up to 5000 PSI
- Flow: Screw in up to 100 GPM and DIN style slip in up to 750 GPM
- Standard in-line-bodies or proprietary integrated circuit manifolds



### FILTRATION

- Pressure, Return, spin-on, in-tank and duplex Filter assemblies
- Micro-fiberglass elements, absolute and nominal ratings
- Standard Pressure and flow ratings:
  - Pressure filters to 6000 PSI and 130 GPM
  - Return Filters to 400 PSI and 180 GPM
  - Spin-on Filters to 350 PSI and 120 GPM
  - In-Tank Filters to 150 PSI and 180 GPM
  - Duplex Filters to 3000 PSI and 600 GPM
- Elements interchangeable with all major manufacturers
- Water removal elements
- Air Breathers
- Suction Strainers
- Oil Analysis, Online Particle Counters and Bottle Sampling

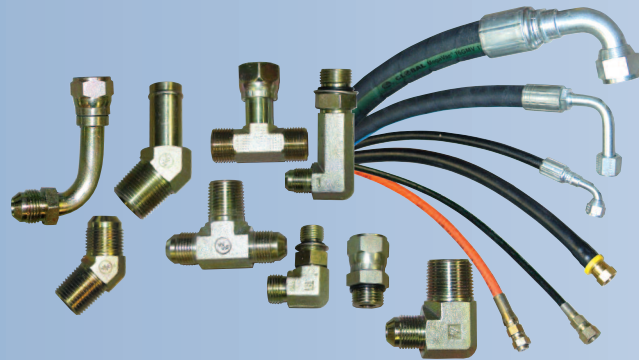


### POWER UNITS

- Standard or designed to customer specifications. CAD circuitry and schematics
- Standard JIC, Vertical, "L" shaped, and custom designed reservoirs
- AC and DC electric motors
- Gasoline and Diesel driven units
- Electrical controls installed and wired
- Test Stations and Complete Test Stands
- All units tested in-house
- On-Site installation and start-up assistance available

### INSTRUMENTATION EQUIPMENT

- Gauges: Liquid Filled and Dry
  - 1-1/2" thru 6" face
  - Brass, ABS or Stainless Steel
  - Bottom, Back or Flange Mount
  - NPT or SAE connections
- Pressure Transducers and Transmitters
  - Vacuum thru 120,000 PSI
  - Accuracy to  $\pm 0.025\%$
  - Hysteresis to  $\pm 0.03\%$  full scale
  - Repeatability to  $\pm 0.03\%$  full scale
  - Durability greater than 100,000,000 full scale cycles
- Load Cells, Pressure Switches, Diaphragm seals and Bi-Metal Thermometers
- Inline and Manifold Valves, Precision Needle Valves, 2 way and 3 way Valves



### HOSE AND ADAPTERS

- Hose
  - Hydraulic Hose 1/4" ID through 2" ID up to 10,000 PSI
  - Thermoplastic and non-conductive hose
  - Industrial hose from 3/16" ID through 8" ID up to 7500 PSI
  - Complete line of hose protective sleeving
- Adapters
  - Hydraulic Adapters up to 2"
  - JIC, NPT, Flat Face, SAE O-Ring, BSPP and Metric
  - Steel, Brass and Stainless Steel material

### LUBRICATION

- Industrial and Mobile Systems
- Oil or Grease
- Single Point Manual Systems
- Fully Automatic Systems
- Pumps: Pneumatic, Hydraulic, Electric and Mechanically Operated
- Series Progressive
- Injectors
- Orifices
- Accessories







## PNEUMATICS

- Cylinders
  - NFPA and ISO rated
  - Bore sizes: 3/4" to 12", Metric sizes 2.5mm to 63mm
  - Aluminum, Steel or Stainless Steel Material
  - Rotary Acuator, Precision slides, Grippers and Rodless Cylinders
- Valves
  - Sizes from 10-32" ports thru 2" NPT
- Flow from 0.02 CV to 49.5 CV
- AC or DC Voltages
- Remote I/O Bus Systems, Input and Output Modules and accessories
- Proportional Valves
- Process Controls, Specialty Valves and Valve Manifolds
- Pressure and Vacuum Switches
- Air Preparation
  - Filters, Regulators, and Lubricators
- Inline and Manifold Mounts
- 1/8" through 2" NPT, Metric ports available
- Water regulators, Precision air regulators, soft start and OSHA shut off valves
- Accessories
  - Air Fittings, Tubing, Flow controls and Mufflers
  - DOT Fleet fittings



## ADDITIONAL PRODUCTS

- Accumulators
  - Piston
  - Bladder
  - Diaphram
- Ball Valves
- Data Acquisition
- Electronic Controls
  - Board Level and Micro Processor Based
- Radio Remote
- Flow Meters
- Heat Exchangers
- Hose/Tube Clamps
- In-Line Valves
  - Check Valves
  - Flow Control Valves
  - Needle Valves
  - Air Bleed Valves
  - Pressure Controls
- Joysticks
  - Hydraulic
  - Electronic
- Pump/Motor Couplings
- Pump/Motor Adapters
- Pumps
  - Air Operated
  - Hand Operated
- Quick Disconnect Couplings
- Reservoir Accessories
- Live Swivel Fittings
- Tank Heaters
- Winches
- Custom Tube Assemblies

# Why Oil-Air Products?

*Established in 1983, Oil-Air Products is a privately owned company committed to quality service and fluid power expertise. We are a complete fluid power service and solutions provider to our extensive base of mobile and industrial customers. Every team member at Oil-Air Products takes pride in providing innovative and cost effective solutions to your fluid power requirements.*

***Let us go to work for you!***

## **Fluid Power Expertise**

Oil-Air Products specializes in fluid power. Our entire staff of customer service personnel, technicians and engineers are all fluid power graduates. Our engineering staff has over 75 years of combined experience in the design and application of fluid power products. That's experience!

## **Factory Warehouse**

Oil-Air Products supports your delivery requirements by maintaining an extensive inventory of fluid power products from the world's premiere manufacturers. We have made the commitment to carry the inventory necessary to meet your product demands and guarantee same day delivery on all in stock product.

## **IMS (Inventory Management Solutions)**

A question many of our customers ask is "What can you, as a fluid power products supplier, do to help me grow my business, reduce my operating costs, and increase my bottom line?" Our answer is IMS. Our IMS support staff will work closely with you in order to provide a customized solution that is right for you. We have a full menu of service techniques which includes but is not limited to MRP/Production Cycle Analysis, Bin Fill Systems, Kanban, Point of Use Delivery, Just in Time (JIT) Delivery, Component Kitting Services, Returnable Containers, Sub-Assembly Services, Barcoding, EDI/EFT and Turns Analysis Reporting. IMS has a proven track record of finding the right inventory control solution for our customers.

## **Hose Assemblies and Connectors**

Oil-Air Products has extensive experience in the fabrication of hydraulic hose assemblies along with a full line of hydraulic adapters. We have fabrication capability at our corporate office in Hamel, MN and a dedicated fabrication facility in Litchfield, MN intended solely for the fabrication of hydraulic hose assemblies. We perform cleanliness testing to ensure that our customers are receiving the highest level of hose cleanliness. We also provide many services including but not limited to customized hose assembly identification, capping and bundling /kitting options.



## **Fluid Power Systems**

From initial design through final installation, Oil-Air Products specializes in the fabrication of complete hydraulic and pneumatic control systems. Our systems design consultants and technicians have years of experience in the application of fluid power products. If desired, we will come to your location and recommend solutions to your toughest challenges. We also perform repairs on a daily basis, and are an authorized warranty repair facility for many of the top fluid power manufacturers.



*Fluid Power Specialists*

## **The Fluid Power Factory Warehouse**

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*Oil-Air Products is an ISO 9001:2000 quality certified company* **ISO 9001:2000  
CERTIFIED**