



Capability Statement





Bolt Torque and Lifting Solutions

Cooper Fluid Systems Manufactured Range

Design and Engineering Capabilities

Diesel and Fluid Transfer Solutions

Dust Suppression

Filtration Solutions

Fire Suppression

Hose and Fitting Solutions

Hydraulic Solutions

Lubrication Solutions

Material Dispensing Solutions

On-site and Workshop Capabilities

Pneumatic Solutions

Water Recycling Solutions

Company Overview

Coventry Group Ltd is an Australian public listed company which was incorporated in 1936. It has been listed on the Australian Stock Exchange since 1966. The group is principally a distributor of industrial products and operates throughout Australia and New Zealand with four distinctive businesses which trade as:

COOPER FLUID SYSTEMS

- Design, manufacture, distribution, and installation of:
 - Lubrication and hydraulic fluid systems
 - Hoses and fittings
 - Engineering and design of specialised lubrication equipment
 - Fluid transfer solutions

ARTIA

- Importation, distribution and marketing of:
 - Hardware components and finished products for furniture, cabinet making, joinery and shop fitting
 - Hospitality furniture
 - Office chair components

AA GASKETS

(in New Zealand as NZ Gaskets)

- Manufacture and distribution of automotive and industrial gaskets

COVENTRY FASTENERS

(in New Zealand as Hylton Parker Fasteners)

- Distribution and marketing of:
 - Industrial and construction fasteners including bolts, nuts and screws
 - General industrial products



As a Division of Coventry Group Ltd, Cooper Fluid Systems is a specialist provider of hydraulic, pneumatic, fluid transfer and lubrication products and services with a proud history of servicing the mining, construction and manufacturing industries.

The business has operated in Australia in various forms since 1972 when John Cooper first started trading in Mackay. Cooper Fluid Systems has been part of the Coventry Group since 1997. In July 2006 Cooper Fluid Systems was merged with Coventry Fluid Systems to create a national fluid systems specialist. The business now trades nationally as Cooper Fluid Systems and is recognised as an industry leader in the Australian hydraulic and lubrications market. The Cooper Fluid Systems branch network stretches throughout Australia stocking and providing an extensive and diverse range of products and services.

Cooper Fluid Systems places great emphasis on our ability to deliver:

- Prompt and accurate delivery
- Specially manufactured products
- Technical assistance
- Quality customer service
- Quality products

Capability Overview

As Australia's hydraulic and lubrication specialists we cater for all major industries across Australia and have a comprehensive range of products available.

This is complemented by our ability to access special and custom products through our relationships with a diverse range of suppliers.

Filtration and Fluid Transfer Solutions	Cooper Fluid Systems Manufactured Range	Hydraulic, Lubrication and Pneumatic Solutions	Design, Engineering, On-site and Workshop Capabilities	Water Recycling and Dust / Fire Suppression
<p>Complete range of spring, pneumatic and hydraulic rewind hose reels</p> <p>Filter carts and kidney loop systems</p> <p>Full range of breathers</p> <p>Full range of hydraulic, pneumatic and electric pumps</p> <p>Hydraulic, diesel and lubrication filtration solutions</p> <p>Positive displacement flow meters</p> <p>Pressurised and non-pressurised diesel refuelling systems</p> <p>Quick disconnect non-spill couplers</p>	<p>Custom designed fuel, lube and water service trucks</p> <p>Custom designed lube containers equipped with tooling</p> <p>Grease reservoirs designed for pressurised grease systems</p> <p>High torque pony drive systems</p> <p>Mobile equipment auxiliary power units</p> <p>On-site hose containers equipped with hose and fitting racks, crimper and cut off saw</p> <p>Pneumatic and hydraulic rewind hose reels</p> <p>Rail power packs in various configurations</p>	<p>Airline, drying, filtration, lubrication and regulating equipment</p> <p>Drive solutions for mobile and industrial</p> <p>High force tooling/ torque tooling</p> <p>Hydraulic pumps and motors</p> <p>Solenoid operated air valves</p> <p>Standard application and custom designed cylinders and power packs</p> <p>Standard progressive, dual line and single line injector based systems</p>	<p>Authorised service centre for the most trusted brands</p> <p>Custom design service and concept trucks</p> <p>Fully trained and qualified service technicians</p> <p>Hose reel stands</p> <p>Hydraulic, lubrication and filtration system design</p> <p>On-site service support</p> <p>Product testing and repair</p> <p>Solutions for dragline lubrication, hydraulic, safety and maintenance</p>	<p>Car, truck and bus wash bay equipment</p> <p>Fully compliant fire suppression systems</p> <p>Oily water separator systems</p> <p>Pump stations</p> <p>Water cannons and spray head valves</p> <p>Water filtration units</p>





Heavy Mobile Equipment Solutions

Cooper Fluid Systems installs and services fire suppression, lubrication and fluid transfer systems

Design and Engineering

At Cooper Fluid Systems our engineering team can assist you with the design of your next project. Our team has full structural design capabilities using Autodesk software with Finite Element Analysis capabilities and we can also assist you with hydraulic and pneumatic circuit design and integration requirements.

All projects are designed around risk assessments compliant with in-house quality systems. Cooper Fluid Systems has the ability to support your project from concept through to design, fabrication, commissioning and operator training. Our extensive branch network is able to provide ongoing support for all manufactured products.

Our engineering and system design capabilities include:

- Custom designed fuel, lube and water modules to suit most prime movers
- Special concept trucks
- Solutions for all your dragline lubrication, hydraulic, safety and maintenance needs
- Hydraulic system design
- Lubrication system design
- Hose reel stands
- Filtration systems





Eaton Aeroquip Hose and Fittings

Cooper Fluid Systems is a leading distributor of Aeroquip hose and fittings

Major Suppliers

Cooper Fluid Systems offer a diverse range of premium brands, including Adel Wiggins, Eaton, Enerpac, Graco, Lincoln and RAD.

Cooper Fluid Systems has developed relationships with a wide range of quality suppliers. Access to these suppliers allows us to offer a wide variety of quality products in a broad range of categories. We are an authorised distributor for Adel Wiggins, Eaton Aeroquip, Enerpac, Graco, Lincoln, Magnum, SMC and Vickers. Cooper Fluid Systems also have exclusive access to Adel Wiggins' refuelling and service systems products for distribution to the Australian market.

Cooper Fluid Systems manufactures its own specialised range of products. The product range comprises of hose reels, lube containers, auxiliary power units, rail power packs, service trucks and specialised products on request.

All products are manufactured to relevant Australian or corresponding international standards, tested and certified in Australia.



Aeroquip

ENERPAC®



Our Advantages... The Coopers' Difference

At Cooper Fluid Systems we understand that a superior service response is critical in today's business environment. Our aim is to offer customers the most professional service possible.

The Coopers' Team

Our team consists of highly experienced project managers, engineers, operations managers, administrators and workshop staff. Our skilled and capable employees have worked throughout Australia to deliver a vast array of products and services to major industry segments.



Experience

Extensive experience enables our staff to provide support for all types of products for a wide range of applications. Access to information and our ability to source many different products means you can feel comfortable that you are getting comprehensive support through our experience and long standing supply partnerships.

Reliability

For convenience orders can be placed by phone, fax, online, email, mail or in person. Our extensive branch network and daily multi-delivery agreements with our logistics suppliers gives us the ability to meet your delivery requirements.

Vendor Managed Inventory (VMI)

In addition to on-site containers, Cooper Fluid Systems can offer complete customised VMI solutions. Ranging from facilitation of on-site cabinets and tubs of product through to organising products in your workshop. Please contact us to discuss your requirements.

Electronic Capability

Cooper Fluid Systems utilises the Oracle e-Business Suite throughout its nationally linked computer network. This system enables development of B2B solutions for large account customers.

Our Oracle IT system consists of six integrated applications interacting in unison – Procurement, Order Management, Inventory Management, Finance, Work In Progress and Discoverer Reporting Tool. This system allows full monitoring and control across all areas of our business and enables full traceability throughout our business processes. We have the ability to email invoices and statements monthly in addition to hard copy versions, allowing customers to electronically monitor and save all accounting information and exchanges. Cooper Fluid Systems continually strives to keep up to date with the most modern accounting practices and technologies to enable contact and smooth transactions with our customers.

B2B Trading

As part of our continuing effort to ensure transactions with our customers are as fast and as hassle free as possible, we have begun to develop solutions enabling direct B2B trading for large account customers. Seamless integration between our Oracle system and customer computer systems is possible via a third party electronic integration partner, allowing simple and efficient ordering with

no manual intervention. Full integration is currently provided to customers using Quadrem and Mincom Axis as their trading partners and future integration with other providers is able to be investigated.

Safety

Cooper Fluid Systems is committed to ensuring that all of its operations and activities are conducted in a manner that does not impact on the health and safety of any person. We consider that there is no more important factor in the undertaking of anyone's job than the prevention of injury or ill-health to any person.

Cooper Fluid Systems is committed to ensuring a safe and healthy working environment for all staff and contractors at all of its work locations and operations.

The complete elimination of injuries is our ultimate goal. Cooper Fluid Systems strongly believes that all incidents are preventable and that a 'zero accident' target is achievable.

To achieve these commitments Cooper Fluid Systems will:

- Involve all staff and contractors in health and safety programs and training to actively take steps to control hazards
- Ensure the establishment of Health and Safety Committees and recognise their effectiveness in preventing accidents
- Continually improve performance to prevent work – related injury and illness through measurable objectives and targets

- Provide rehabilitation programs for employees in the event of an injury or illness occurring, or in the event of personal or family loss
- Comply with all relevant legislation, regulations and codes of practice and endeavour to exceed compliance
- Ensure that all staff and contractors are aware of Cooper Fluid Systems safety policy and procedures and are appropriately trained to undertake their duties and understand their responsibilities in accordance with these policies and procedures
- Integrate and maintain management of health and safety as a central part of the Cooper Fluid Systems safety management system

Commitment to safety is considered a team obligation involving managers, supervisors, sub-contractors, suppliers and employees working together through consultation and co-operation.

Environment

Cooper Fluid Systems is committed to ensuring that all its operations and activities are conducted in a manner that minimises any impact on the environment.

Coventry Group Ltd recognises that its operations have an environmental impact and has adopted an approach of pro-actively managing activities and adopting techniques which minimise environmental harm. Coventry Group Ltd also recognises the rights of others in the environment.

To achieve our commitment Cooper Fluid Systems:

- Minimise adverse environmental impacts through the use of integrated management procedures and planning
- Monitor, review, audit and assess its operations with a view to continual improvement of environmental performance

- As a minimum, comply with all relevant legislation, regulations and Code of Practice
- Implement procedures for establishing and reviewing environmental objectives and targets
- Recognise the responsibilities of all employees, including contractors, to work in an appropriate manner, and provide training and resources to ensure tasks are properly performed
- Prevent pollution
- Communicate with shareholders about Coventry Group Ltd's environmental performance and have relevant information publicly available

Commitment to the environment is a team obligation involving co-operation and consultation between employees and contractors.

Code of Conduct

Coventry Group Ltd has a formal code of conduct. The code sets out principles and standards with which the Group's directors and employees are expected to comply in the performance of their respective duties. The code requires all directors and employees to act with

honesty and integrity, comply with the law and conduct themselves in the best interests of Coventry Group Ltd. The full code of conduct can be viewed on the Coventry Group Ltd's web site at www.cgl.com.au.

Training

Cooper Fluid Systems is committed to training and developing its staff. A detailed three month training and induction program is in place for all new employees. Staff identified as high performers who are seeking career advancement are invited into Certificate IV and Diploma level training in Frontline Management. Tuition assistance programs are available to staff as a means to assist in attaining university qualifications that will further their ability to advance through the business.

Cooper Fluid Systems has dedicated Training Officer positions in addition to the Human Resources Team which supports the business as a whole. These staff are committed to the delivery and organisation of both on and off-the-job training.

An annual performance appraisal process provides an opportunity for all staff to discuss career goals with their managers, identify skills gaps and request approved training. This provides the foundation for internal and external training that occurs throughout the year. Common training that is offered includes external courses in leadership, sales, customer service, project management, financial management, safety and Microsoft Excel/Word. Critically for branch staff, regular product knowledge training from both internal and external providers is also undertaken.

Product Range



Wiggins Fuelling Systems

Cooper Fluid Systems is the exclusive distributor for Adel Wiggins in Australia



Cooper Fluid Systems is the exclusive distributor for Wiggins in Australia. Our Team has the knowledge and experience to assist users with product selection, system design, problem solving and the elimination of costly failures such as burst tanks and fuel spills.

Wiggins' product is fitted as standard equipment by most manufacturers of mining and earthmoving equipment. Manufactured to precision from tough aerospace quality metals and polymers, the Wiggins range is unmatched in quality, reliability and functionality. Wiggins fast fuel systems are suited to all diesel powered mining and earthmoving equipment including skid or trailer mounted pumps, lights and generators.

Fuel Nozzles

- ZZ9A1 up to 475LPM
- ZZ9A2 up to 800LPM
- Australia's most popular and reliable auto shut-off diesel fuel nozzles
- Suitable for both pressurising and non-pressurising systems, direct and remote fill
- Economically priced
- Reconditioning service with guarantee

Pressurising Systems (Z Series)

- Most economical option – a fraction of the cost of non-pressurising systems
- Wide range of receivers and vents to suit most applications and minimise tank pressures



Fluid Service Couplings

Wide range of engine service nozzles and receivers available in a range of different colours and applications.



Fail-Shut Non-Pressurising Systems (JN and VR Series)

- Wiggins JN and VR are the only systems that prevent over-filling if the sense-hose fails
- External sense-hoses only - no failure-prone internal sense-hoses
- Unique, ultra-reliable jet sensor with zero moving parts – unlike float valve, it never wears out

JN Series

- Designed to be used with existing pressure-sensing nozzles

VR300

- Ultra-Fast for flows up to 1,200 Lpm
- The only intrinsically safe system – cannot overfill
- Fully self contained auto shut-off system – no external power source required
- No premature shut-off, even with fuel heights of 6 metres or more
- Direct and remote fill options, bolt on kits available
- Safety interlocks:
 - VR301 cannot be 'opened' unless connected to the receiver
 - VR301 cannot be 'disconnected' unless flow handle is closed
 - Electrical bonding grounds static charge
 - Flush valving minimises dirt ingress



We are the authorised Australian and New Zealand distributors

Presses

- Arbor, C-clamp and bench presses
- H-frame presses
- Roll frame presses

Accessories Available

- Cylinder mounting blocks
- V-blocks
- Hydra-lift
- Pump mounting bracket
- Cylinder speed chart

Torque Wrenches

Square Drive and Hexagon

- Constant torque output across full stroke and fast operation due to the large nut rotation.
- LP-Series, low profile hexagon wrenches
- Double-acting hydraulic hexagon torque wrenches
- Square drive hydraulic torque wrenches
- Double-acting hydraulic square drive torque wrenches

High Pressure Hydraulic Tooling

Lightweight Hand Pumps

- Durable glass-filled nylon reservoir and nylon encapsulated aluminium pump base
- Lightweight and compact design
- Two-speed operation
- Large oil capacities and internal pressure relief valve

Single-Acting, General Purpose Cylinders

- Collar threads, plunger threads and base mounting holes enable easy fixturing (on most models)
- Designed for use in all positions
- High strength alloy steel for durability
- Removable strap handles for unobstructed fixturing (on RC-5013, RC-7513 and both 100 ton models)
- Baked enamel finish for increased corrosion resistance
- Plunger wiper reduces contamination, extending cylinder life

Also Available...

Electric and hydraulic torque wrench pumps



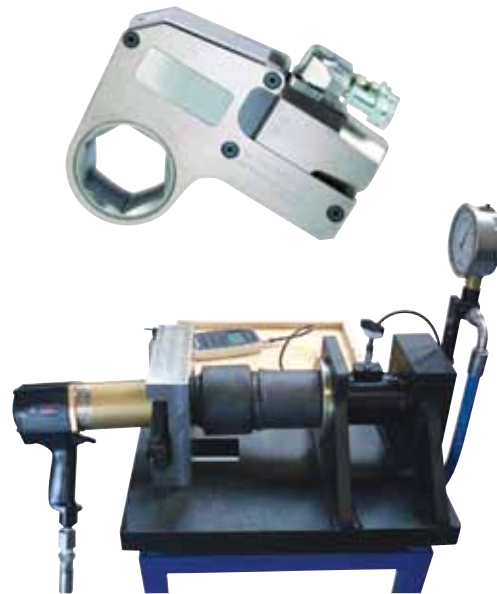
High Pressure Hydraulic Tooling

Cooper Fluid Systems can assist you with all your high force equipment requirements

Hydraulic & Pneumatic Torque Wrench Calibration

All torque wrench calibration is now available from Cooper Fluid Systems

Cooper Fluid Systems can calibrate your hydraulic and pneumatic torque tooling. Regular calibration should be carried out to ensure accuracy, meet current safety standards and to maintain the performance of your equipment.



Torque Systems



Pneumatic, Battery Powered and Electronic Pistol Grip Wrenches

Reliable and dependable solution for the installation and removal of heavy duty fasteners in a variety of industries that require accuracy, power and safety.

- Highest power-to-weight ratio of any torque tool on the market today
- Ideal for virtually any bolting application
- Equal power in both forward and reverse allows more flexibility for tough maintenance jobs
- Individually calibrated and traceable to NATA Standards.
- Accuracy of +/-5% and repeatability of 2%
- 88 times less vibration than impact wrenches
- Operates at only 85dba
- Exclusive low profile reaction arm takes operational load off the operator, reducing injuries and operation costs



We service and calibrate all brands of wrenches

Material Dispensing and Lubrication Systems

Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

NXT Air Operated Piston Pumps

Suitable for grease and oil applications.

- Move large amounts of oil fast; up to 117 Lpm
- Tested to outperform and outlast all other pumps on the market with it's long life packing design
- Models available with intuitive, easy to use DataTrack™ controls, gives you pump diagnostics; material usage tracking and pump runaway protection
- New NXT motor is up to 50% quieter than previous models
- Available in ratios of 3.5:1, 4.5:1, 6:1, 10:1 and 12:1 for oil
- Available in ratios of 14:1, 26:1, 29:1, 55:1, 63:1 and 68:1 for grease



Husky™ Diaphragm Pumps

- 30% more efficient than the market leaders
- 20% increase in fluid flow compared to previous Husky models in the range
- Up to 5 times longer diaphragm life compared to other diaphragm pumps in its class
- Expanded material offering to handle endless applications



Fire-Ball® Air Operated Piston Pumps

- The industry standard in lubrication equipment for outstanding performance and reliability
- Designed for applications requiring continuous duty operation
- Available in ratios of: 3:1, 6:1, 10:1, 50:1, 75:1



XD Series Hose Reel

High performance hose reels designed for heavy duty jobs that require high frequency use, extra strength and durability.

- Dual pedestal frame
- Metal spool
- Rugged indoor and outdoor use
- Narrow footprint
- Sealed springs
- In-field spring adjustment
- Non-sparking ratchet
- Sealed roller bearings



750 Series Hose Reel

- Heavy-duty, high volume reel handles up to 50' (15.2m) of 1-1/2" (38mm) hose that is ideal for fuel dispensing
- Maintains desired length of hose and ensures positive latch and rewind



Material Dispensing and Lubrication Systems

Centro-Matic® Automated Lubrication Systems

Air-Operated, Electric, Manual or Hydraulic

Designed to match your application, systems can service one machine, different zones on one machine or several separate machines. Regardless of the application, a central pump station automatically delivers lubricant through a single supply line to the injectors. Each injector serves only one lubrication point and may be accurately adjusted to deliver the precise amount of grease or oil required.

Centro-Matic® systems give you multiple advantages over other designs:

- Systems are easy to understand, install and maintain
- Features a powerful pumping unit and visual indicators
- Lubricant injectors are externally adjustable without special tools
- Easy to service



Lincoln Injectors

After 65 years, the SL-1 injector remains the standard in the lubrication industry. Lincoln will continue to sell and stand behind the SL-1 injector, now and into the future. With the enhanced performance of eight major series changes, the next generation of hard-working, dependable injectors is here - the SL-V.



PowerMaster III Pumps

The PowerMaster III Pumps are completely pneumatic with modular air motors and six-inch stroke for greater material output. Accessories include an AirBrake™ option for prevention of pump runaway due to an empty container, a broken supply line or other loss of pump prime.

- State-of-the-art, fully pneumatic air motors, 3, 4, 6, 8 inches (76, 101, 152, 203 mm) diameter
- Full six-inch stroke for greater output per cycle
- Modular design for easy repair
- Only five moving parts, no metal-to-metal contact
- Available to fit any drum or pail size
- Offered in carbon steel, stainless steel or hard-chrome plated
- Complete selection of packing materials available
- Ball-style for fluid materials
- Shovel foot-style for high-viscosity, non-fluid materials



PileDriver III Pumps

For high-volume applications of viscous materials from standard drums or bulk tanks, these industry-standard pumps incorporate the same completely pneumatic, modular air motors. Along with the AirBrake option and a wide variety of packing materials, PileDriver III Pumps feature a patented leakless gland design that protects the pump from gland seal failure and subsequent downtime.

- Machined inlet casting: set screws secure the inlet assembly and permit 360° outlet adjustment to facilitate system plumbing
- Cartridge-type gland with scrapers and patented protection bushing
- Straight-through pump tube and piston-port design reduces internal friction and the opportunity for solids entrapment
- Load-bearing, chrome-plated internal pump tube surface distributes forces between gland and pump tube to prolong seal life
- Choice of inlets: shovel-type for thick material or flat check for higher flow rates



Clamps

STAUFF Clamps enable quick and easy pipe and hose installations as well as a clean distinct pipe layout and vibration and noise reducing properties.

Applications are almost unlimited. Custom sizing and configurations are available upon request. Wide product range, all areas of pipe, tube, and hose installation are covered:

- Industrial hydraulics
- Mobile hydraulics
- Marine hydraulics
- Offshore
- General industrial pipe construction
- Mining industry
- Nuclear reactor construction
- Instrumentation and control technology
- Pneumatics



Filtration

STAUFF Filtration Technology offers a complete range of filtration products and services that will provide the system designer or user with the highest level of contamination control demanded by today's most sophisticated applications.

Products include pressure filters, return line filters, elements, spin-on filters, suction strainers and filler breathers for various hydraulic, lubrication and fuel oils.



Test Equipment

STAUFF Test offers a comprehensive range of test points and accessories for hydraulic and pneumatic systems.

Varied spectrum of screw-in test points and test couplings for tube fittings, which are oriented to international standards, guaranteed to comply with the requirements of applications all over the world.

Extensive range of accessories, including measuring hoses and pressure gauges (mechanical and digital/electronic).

All products are manufactured to Stauff's in-house quality management in accordance with EN ISO9001:2000 ensuring a consistently high standard of quality.



Ball Valves

STAUFF Ball Valves are available in a variety of configurations and a range of sizes to suit most Industrial applications including Mobile, Mining and Marine hydraulics. Specially configured valves are also available for specialised applications including for Gas, Paint and Lacquer and Foam.

Ball Valves are a simple method of controlling flow by a means of a ported ball supported on seals in housing.



Hydraulic Accessories

STAUFF Hydraulic Accessories have been carefully designed to offer a range of components suited to the demands of building hydraulic systems in most industrial and mobile applications.

- Filler breathers
- Electrical level switches
- Flow control valves
- Gauges
- Complete filter units
- Fluid level indicators
- Temperature and float switches
- Tank breathers
- Pump/motor couplings
- Gear couplings
- In line flow monitors



Accumulators

STAUFF Accumulators provide a means of regulating the performance of a hydraulic system. They are suitable for storing energy under pressure, absorbing hydraulic shock, dampening pump pulsation and flow fluctuations.

Bladder or diaphragm accumulators provide excellent gas and fluid separation ensuring dependable performance, maximum efficiency, and long service life.

Oval Gear Flow Meter

Macnaught is an Australian owned company, established in 1948, and has been manufacturing Oval Gear Flow Meters since the early 1990's.

With over 560 models, Macnaught offers a comprehensive range of Oval Gear Flow Meters optimised to suit a broad spectrum of industrial applications, predominately within the Fuel and Oil industry.

The combination of simple design, robust construction, highly accurate performance and the backing of an exceptional support network, ensures that Macnaught is globally recognised as an industry leader in the supply of fluid management solutions.

Technical Overview

Flow Ranges: 0.5 l/hr – 1200 l/min

Accuracy: +/- 0.5%

Repeatability: 0.03%

Temperature: -40-120 oC

Pressure: max 2000 psi

Line Size: 1/4" – 4"

Process Connections: BSP, NPT, ANSI, DIN and JIS

Display Options: Digital and Mechanical

Electronics: Hall Effect and Reed Switch, Encoder,

Output options: Pulse, Scaled Pulse, 4-20mA (passive)

Approvals: NMI (Weights and Measures), Ex ia explosive environments

Application Examples:

- Service and fuelling trucks
- Bulk fuel storage and transfer
- Lubrication blending and dispensing
- Bio diesel blending
- Hydraulic fluid dispensing



Hydraulic Hose and Fittings

Raise your standards with MatchMate® global hose product with the Triple Crown advantage!

- Advances in increased temperatures are the highest in the industry for similar products designed to meet EN specifications
- Improvements in rubber compounds have enabled Eaton to raise temperatures of these Aeroquip braided and spiral hose styles to -40°C to +127°C (-40°F to +260°F)
- Features new Dura-Tuff™ cover for better abrasion and more resistance than the traditional rubber covers
- Higher pressures and temperatures can extend the life of a hydraulic hose in a typical application
- Hose products to meet market needs with a better long term value
- Meet the requirements of todays higher pressure hydraulic systems being introduced into the market



The E-Z Clip™ System

- Designed for assembly with Aeroquip GH134 multi-refrigerant hose
- Engineered connection exceeds SAE J2064 and has been vibration and impulse tested
- The benefits of E-Z Clip™ are virtually endless
- No guess work; no leaking crimps; no power supply needed
- Easy to use in confined areas

Also Available...

Duffield hose and fittings

On-site Hose and Fitting Containers

With ongoing support and long term commitment to working with our clients, Cooper Fluid Systems is the industry leader in supplying quality hose and fitting containers.

- Containers come in standard configurations but can be modified by request*
- Container, benches and all tooling provided free of charge*
- Ideally suited to remote locations
- Containers can be fitted with air conditioning
- Electrical system is to mine site safety standards
- Dedicated Cooper Fluid Systems personnel provide comprehensive training and support, crimp machine calibration and stock management services

* conditions apply





AFFF Fire Suppression Systems For Mobile Equipment

From light vehicles to the biggest mining equipment, Cooper Fluid Systems can design and install a fully engineered Fire Suppression System to suit your application.

- Available in loss (LOP) or rising (ROP) pressure actuation
- Compliant to Australian Standards AS5062
- Alarm panel with status display and engine shutdown
- Installation includes full design criteria and risk assessment
- Service and parts backup across Australia



Fire Extinguishers

To further enhance our range of mobile Fire Suppression products we can now offer portable and hand held extinguishers for many applications.

- Manufactured to Australian Standards AS/NZS 1841
- Available for ABE, CO2, AFFF, H2O class fires
- Portable handheld with wall or vehicle brackets
- Wheeled mobile units for workshops
- Consumables – extinguisher bags, signage



Piston Pumps

420 Series Pump

- Long pump life with quiet operation
- Low installed operating costs and reduced maintenance
- Flexibility in machine design
- Compact size saves space
- Design promotes leak free system

Also Available...

Gear and vane pumps

Motors

The Char-Lynn Motor Range:

Consists of three major types based on the type of valving used to distribute fluid through the orbit gear set (geroler or gerotor)

These three types are:

- Spool valve
- Disc valve
- VIS (valve-in-star)

Cylinders

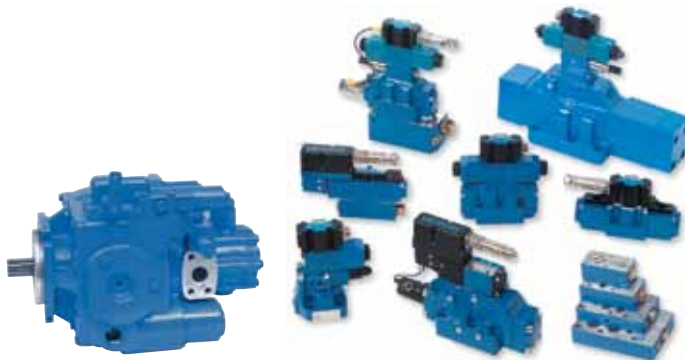
TZ Series Cylinder

- Suitable for nominal working pressure up to 3000 psi
- Piston rods available between 5/8" and 5-1/2"
- Cylinder bores available between 1-1/2" and 8"
- Different rod end types are available

Power Units / Systems

Standard Features

- Continuous-duty rated electric motors
- Aeroquip hose and fittings for leak free design
- Lift-off tops for easy maintenance
- Wide range of optional accessories available



Fittings

- Series KQG is a one-touch fitting made of all stainless steel, except seal parts
- Suitable for use with steam and is grease-free
- Applicable tubing includes FEP, PFA, nylon, soft nylon, polyurethane and polyolefin
- Series KQG is available in both metric and inch sizes



FRL Units

Air Filter, Regulator and Lubricator

- Improved visibility for lubricant drip with graduation for lubricant control
- Float type auto drain with excellent operability is used for compact models (AF10, 20)
- Drain cock is easy-to-use rotary type
- Ozone resistant rubber material (HNBR)
- Improved relief sensitivity
- Embedded pressure gauge is a standard feature



Valves

- Series VXD, pilot 2 port solenoid valve for air, gas, water and oil
- VXD can be quickly disassembled and reassembled
- Variations include, energised open (N.C) and energised closed (N.O) valve, solenoid coil (class B, class H), brass/BC6 or stainless steel body material and NBR, FPM, EPR seal materials





Spray Head Valves

Efficient and controllable water delivery systems.

- Maxi and mini valves are designed to operate under the most demanding conditions
- Heavy duty marine grade alloy construction resists the most corrosive and abrasive of water types
- Spray head design allows the units to be operated at all angles including fully inverted
- The ability to have infinite control over spray patterns and flow rates means less waste and better utilisation of time and resources

Water Cannons

- Constructed from heavy wall steel tube - either a single piece of carbon steel or stainless steel tubing, not individual segments welded together
- Patented Magnum bearing system eliminates the effects of vibration and corrosion that destroy mechanical bearing systems
- Simple maintenance and component replacement procedure means that any faults can be rectified quickly in the field by non-skilled personnel
- Range of remote monitors are offered in both hydraulic and pneumatic modes of operation
- Hydraulic units are available with an independent hydraulic power pack for installation in areas and vehicles that do not have their own hydraulic supply





Scheduled Maintenance

At Cooper Fluid Systems we look to form partnerships with our customers to ensure minimal down time is achieved by ongoing scheduled preventative maintenance. Cooper Fluid Systems are able to provide qualified tradesmen and late model site compliant vehicles to carry out scheduled maintenance on site.

Our scheduled maintenance capabilities include:

- Lubrication systems
- Hydraulic systems
- Service trucks
- Filtration equipment
- Fire suppression systems
- Fuel farms and refuelling systems
- High force torque wrench service and calibration

Workshop Repairs

At Cooper Fluid Systems we are well equipped to handle all of your service requirements. All of our branches have fully equipped workshop facilities with trained and qualified service technicians who are dedicated to ensuring customer satisfaction is achieved in a timely manner.

Our workshop capabilities include comprehensive testing and repair of most products including:

- Cylinders
- Hydraulic motors
- Hydraulic pumps
- High force equipment
- Hydraulic and pneumatic torque wrenches
- Lubrication components
- Refuelling equipment

Cooper Fluid Systems are also **Authorised Service Centres** for some of the most trusted brands in the world including:

- Adel Wiggins
- Eaton / Vickers Hydraulics
- Enerpac
- Graco
- Lincoln
- Macnaught
- Magnum
- Radical Torque Solutions (RAD)
- SMC





Lubrication Systems

Cooper Fluid Systems are able to provide lubrication solutions for any of your mining, offroad, process or construction equipment. Our in house specialists have designed, specified, supplied and installed lubrication systems for haultrucks, draglines, excavators, graders, stacker reclaimers, washplants, run of mine and conveyor systems.



On-site Installation and Commissioning

At Cooper Fluid Systems we are proud to offer our customers with an On-site Installation and Commissioning service. You can be assured that the Coopers Team are available to provide support for any application.

We are able to provide on-site support for our manufactured and engineered product range. All of our locations have fully trained and qualified service technicians who are able to meet your expectations.

Our installation and commissioning capabilities include:

- Lubrication systems
- Hydraulic systems
- Refuelling systems
- Pneumatic systems
- Fire suppression systems
- Auxiliary power units
- Hydraulic or pneumatic hose reels
- Lube and fitting containers
- Pony drives





Auxiliary Power Units

Cooper Fluid Systems have developed an Auxiliary Power Unit (APU) designed to provide emergency power for the rescue of heavy machinery. These units are capable of supplying power to the hoist circuit to allow the load to be dumped and then supplies power to the brake and steering circuit to allow the truck to be safely towed.

Features and benefits:

- Consists of a water cooled diesel engine, housed in a rigid frame with lifting and forklift access fitted
- Is easily positioned on the side of the vehicle for use
- The system is also fitted with a hydraulically driven compressor which is required for some makes of truck
- Is easily operated by a key start panel with integral engine protection functions. The 'Dump and Lower' functions are operated from a remote pendant, which provides the added safety feature of removing the operator from the area



Rail Power Units

Cooper Fluid Systems have engineered an electro-hydraulic rail switching power unit for Australia's extensive rail network. These units are designed for Australia's harsh environments and for ease of maintenance.

Cooper Fluid Systems also offer ongoing service and testing of these power units to meet ongoing performance requirements.

Features and benefits:

- Various configurations available to suit different State and Territory requirements
- Meets all the duty requirements of power, manual and trailing operations
- Manufactured under strict in-house quality systems
- Can be supplied with a range of actuators to suit different rail switching setups
- Low current draw on idle



Lube Containers

Cooper Fluid Systems have developed a range of modified shipping containers designed to meet re-locatable lubricant storage and dispensing requirements. These containers can be fully self-contained with the inclusion of a generator and compressor.

Features and benefits:

- Custom design lubrication dispensing solutions
- 20ft, 40ft and custom designed
- ISO dimension compliant for ease of relocation
- Numerous reel, pump, compressor, generator and lighting configurations are available



Hose Reels

Our in-house engineering team has designed and manufactured our own range of hose reels. Robust design, solid steel construction, minimal moving parts and high quality powder coated finish combine to establish the 'Coopers Reel' as the market leader in heavy duty hose reels.

Features and benefits:

- Safe and easy to operate and maintain
- Many different mounting options to suit your application
- No power springs
- Direct drive – no chain
- Stainless steel hose guide
- High hose carrying capacity
- High flow with low pressure drop
- Option for stainless steel wetted parts
- Custom designed solutions available if required

Hose reel stands can also be designed to suit your requirements.



Pony Drives

Our engineering team has developed a safe and efficient way to assist with rope change outs on dragline maintenance days and shutdowns. These systems offer precise control, safety interlocks and runaway protection. Our pony drives are made from quality parts and are simple to use.

Features and benefits:

- Permanently mounted units with runaway prevention
- Easy to slide in and out of engagement
- System remains sealed to prevent contamination ingress
- Allows controlled and safe adjustment
- Long lasting, time saving and user friendly
- Highly efficient hydraulics
- Reduces risk of injury due to lack of manual handling
- Easy alignment
- PLC controlled

- Designed, manufactured, installed and commissioned
- Manufactured and serviced locally



Service Trucks

At Cooper Fluid Systems our engineering team can assist you with the design of your next project. Our team has full structural design capabilities using Autodesk software with Finite Element Analysis capabilities and we can also assist you with hydraulic and pneumatic circuit design and integration requirements.

All projects are designed around risk assessments compliant with in-house quality systems. Cooper Fluid Systems has the ability to support your project from concept through to design, fabrication, commissioning and operator training. Our extensive branch network is able to provide ongoing support for all manufactured products.

Features and benefits:

- Custom designed fuel, lube and water modules to suit most prime movers
- Hydraulic system design
- PLC controlled
- Special concept trucks
- Trucks designed for ease of maintenance



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