

PACIFIC HYDRAULICS



- Superior Brands
- Quality Service
- Onsite & In-house
- Total System Solutions
-

CORPORATE PROFILE



COMPANY PROFILE

Pacific Hydraulics was formed in 1990 and has grown into a national Australian owned company through the provision of high quality products, service and repairs. With a nationwide network of branches, Pacific Hydraulics is dedicated to fulfilling your hydraulics needs.

- Over 20 years experience
- 100% Australian owned and operated
- Hydraulic components and spare parts
- Service and repair
- System design
- Australia's only tier one stocking distributor of Sauer-Danfoss-Daikin
- Factory authorised service centres for Sauer-Danfoss-Daikin

Pacific Hydraulics provides four core services:

- ✓ Sales of hydraulic components and spare parts
- ✓ Onsite field service
- ✓ In-house repairs
- ✓ Design and assembly of integrated hydraulic systems and controls

Our extensive range of world leading brands of hydraulic components and spare parts includes:



HYDRAULIC PRODUCT RANGE

Sauer Danfoss Daikin

Hydraulic Motors

Orbital Gerotor and Geroller motors, both spool valve and disc valve options. For applications such as skid steers conveyors, crushers and winches.



Power Steering

Steering valves, priority valves, and electric hydraulic steering. For applications such as tractors, forklifts cranes and road rollers.



Hydrostatics

Series 40

Medium duty axial piston pumps and motors 25 to 46 cc/rev, up to 345 bar.

Series 90

Heavy duty axial piston pumps and motors 42 to 250 cc/rev, up to 480 bar.

For applications such as tractors, excavators, harvesters, trenchers, sweepers, cranes, mobile drill rigs and compactors.



Bent Axis Motors

Heavy duty, variable displacement motors 60 to 250 cc/rev, up to 480 bar. For applications such as reclaimers, planers, rail drives and snow groomers.



Open Loop Piston Pumps

L Series

Medium duty, variable axial piston pumps 15 or 38 cc/rev, up to 210 bar. pressure compensated load sense control.

Series 45

Medium duty, variable axial piston pumps and variable or fixed motors 25 to 147 cc/rev, up to 310 bar. For applications such as drill rigs, forestry or agricultural machinery.



PVG Valves

The PVG 32 and PVG 120 are a complete family of pressure compensated, sectional mobile, proportional, directional control valves with flows up to 240 Lpm and pressures to 400bar. Suitable for agricultural and construction equipment.



Plus+1 Control Platform

Complete integrated control solutions based on Plus+1 microcontrollers can be configured using modular design hardware and software to integrate with existing control systems.



Hydac

Filters

Low, medium and high pressure off-line and in-line filters up to 450 bar and 15,000LPM. For applications such as machine tools, mobile machinery, steel construction and mining.



Accumulators

Bladder, piston and diaphragm accumulators to 550 bar, safety and shut-off block options, nitrogen charging units. For applications such as energy storage, pressure surge dampening, noise suppression, pulsation dampening and weight equalisation.



Heat Exchangers

Oil/Air coolers to 1,000kW, Oil/Water coolers to 500kW Pump transfer cooler filtration units, integral bell housing coolers. For applications such as hydrostatic drives, rail technology, plastic injection moulding machines and hydraulic power units.



Accessories

2 and 3 way high pressure ball valves, level gauges, hose clamps and bell housings. For applications such as system engineering in hydraulics and general mechanical engineering.



Instrumentation

Pressure, temperature and flow transducers, portable data recorders, field diagnostics equipment. For applications such as presses, test rigs, power stations, steelworks equipment and industrial/mobile plants.



Ryco

Hydraulic Hoses

Single wire, two wire and multi-spiral hoses manufactured to SAE, EN, DIN, ISO and AS standards.



Couplings

Crimp Couplings

Full range of one piece (ferrules already attached to tails) and two piece couplings with broad range of endstyles.

Field Attachable Couplings

These can be assembled in the field using commonly available hand tools.



Adaptors

Ryco offers a comprehensive range of hydraulic adaptors including tees, elbows, split flanges and reducing bushes.



Hose Assembly Equipment

A wide range of vertical and horizontal hose crimping machines and hose cut off saws.



Pacific Hydraulics

Pacific Industrial Products

Industrial Valves

Range of valves to ISO 4401 (Cetop) interface including directional control valves, modular (sandwich) stackable valves, gasket mounted flow and pressure control valves. Suitable for cranes, mining equipment, agricultural and earthmoving machines.



Manifolds and Sub-plates

Range of ISO 4401 (Cetop) sub-plates, blanking plates with rear or side entry, multi station series and parallel manifolds with or without integral relief valves. Suitable for machine tools, production and material handling equipment, food processing, marine, off road equipment, heavy construction equipment, oil field and farm equipment.



Vane Pumps

Single and double, balanced vane pumps with displacements from 3.4cc/rev up to 192.5cc/rev, including power steering pumps and single intra-vane, high performance pumps. Suitable for machinery such as injection moulding, extrusion machines and power packs.



Cylinders

Range of premium hydraulic cylinders to ASAE mounting dimensions with bores from 1.5" to 5" and standard strokes to 48". Cylinders feature 1" clevis pins, hard chrome plated rods and double lip wipers. Suitable for mobile hydraulic equipment, construction equipment, material handling equipment, heavy industry and above ground mining equipment.



SPX Power Team

Power Team

Single and double acting high pressure jacks, hand-pumps, power units, torque wrenches, presses, pullers, nut-splitters, spreaders and general high pressure rescue equipment.



SPX POWER TEAM.

Stone

Compact AC and DC power packs for general purpose applications with reservoirs from 1.5 liters to 15 liters, DC units to 800W and AC units to 5.5kW. Ideal for general purpose mobile applications.



Brand Hydraulics

Flow Control Valves - Manual

Three port, pressure compensated, flow control valves, up to 113 L/m, fully adjustable by means of a control lever on the face of the valve, ideally suited to a wide variety of agricultural applications.



Flow Control Valves - Electric

An electronically controlled version of the three port manual valve where controlled output flow is directly proportional to the electrical input signal provided by separately available electric control boxes.



Directional Control Valves

Four way, mono-block style, proportional directional control valves, with maximum flow capacity of 68 L/m and working pressure to 200 bar. The manual control handle allows for metering of flow in each direction.





CAPABILITIES

At Pacific Hydraulics, we understand the critical need for high quality products, service and repairs. Our experienced staff are dedicated to providing unparalleled customer service and support to a wide range of industries, including agriculture, mining, manufacturing, civil, marine and heavy industry.

Onsite Field Service

- ✓ 24/7 emergency service
- ✓ Programmed, preventive and predictive maintenance
- ✓ Modern fleet of fully equipped service vehicles
- ✓ Dedicated fully-trained service technicians
- ✓ System trouble shooting and repair
- ✓ System installation modification and maintenance
- ✓ Mobile hydraulic workshops



In-House Repairs

- ✓ Factory authorised service centres for Sauer-Danfoss-Daikin products
- ✓ Fully equipped engineering and hydraulic workshops with full testing facilities at each branch
- ✓ Machine shop capabilities, cylinder barrel honing and hydraulically operated cylinder stripping benches, including the unique ratchet rotary head technology
- ✓ State of the art open and closed loop test rigs with power capabilities of up to 225kW
- ✓ Fully computer generated, printed reports available on request
- ✓ Testing facilities for high pressure jacks to 690bar.

Design and Assembly of Integrated Hydraulics Systems and Controls

- ✓ Design and assembly of fully integrated, hydraulic systems and controls
- ✓ Experienced staff that are highly skilled in the design, calculation, product selection and commissioning of complex hydraulic systems and controls
- ✓ Certified professional engineers
- ✓ Design optimum solutions to each application





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Formulas

$$\text{Force (N)} = \frac{\text{Pressure (Bar)} \times \text{Area (mm}^2\text{)}}{10}$$

$$\text{Torque (Nm)} = \frac{\text{Pressure (Bar)} \times \text{Displacement (cc/rev)}}{20 \times \pi}$$

$$\text{Flow (LPM)} = \frac{\text{Fluid Velocity (m/sec)} \times \text{Area (mm}^2\text{)} \times 60}{1,000}$$

$$\text{Power (kW)} = \frac{\text{Flow (LPM)} \times \text{Pressure (Bar)}}{600}$$

$$\text{Power (kW)} = \frac{2 \times \pi \times \text{Torque (Nm)} \times \text{Speed (RPM)}}{60,000}$$

$$1 \text{ PSI} = 51.7 \text{ mm Hg (Mercury)}$$

$$1 \text{ ATM} = 1 \text{ Bar} = 14.7 \text{ PSI}$$

$$10 \text{ Bar} = 1 \text{ MPa}$$

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