

PRODUCT LISTING

Accumulators.
Ball valves.
Bell housings.
Check valves.
Custom built power units.
Cylinders.
D.C. Voltage power packs.
Directional control valves.
Diverter (circuit selector) valves.
Diverter cartridge valves.
Drive couplings.
Filtration.
Flow control valves.
Gear boxes.
Heat exchangers.
Hose assembly equipment.
Hydraulic hose.
Hose couplings and adaptors.
Hydrostatic transmissions.
Load control valves.
Motors.
Oil.
Oil level and temperature gauges.
Overhung load carriers (out rigger bearings).
Power-take off mounted
Speed increaser gearboxes.
Pressure regulating valves.
Pressure relief valves.
Proportional cartridge valves.
Pumps.
Quick release couplings.
Quick hitch valves.
Reservoir's.
Rock hammer valves.
Sequence valves.
Shuttle valves.
Spare parts.
Specialist hydraulic integrated circuits.
Steering equipment.
Orbital steering valves and steering accessories.
Subplates for Cetop valves.
Test and analysis equipment.
Tube.
Tube support clamps.
Tubing tools.



39 Sorbonne Crescent
Canning Vale
Western Australia 6155

Phone 08 9455 2344

Fax 08 9455 2045

E-mail

admin@gerrardhydraulics.com.au

PRODUCT LISTING

Accumulators

Bladder and Piston types.

Capacity range 0.10 litre to 50 litre (6.1ci to 305ci)

Pressure range Up to 690 bar (10000 psi)

Ball Valves

2 way and 3 way for low, medium and high-pressure applications.

Size 1/4, 3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2 and 2 inch BSPP

Pressure range Up to 500 bar (7250 psi)

Bell Housings

Electric motor, petrol and diesel engine mounts with pump interface in S.A.E, D.I.N, I.S.O, Bosch and special purpose flanges.

Electric motor interface D63 frame to D250 frame 0.18kW to 75Kw (0.25hp to 100hp)

Petrol engine interface 41.3 MM to 163.5 MM spigot 2.2kW to 13.5kW (3hp to 18hp)

Diesel engine interface SAE 5 6-1/2 inch to SAE 1 11-1/2 inch Up to 223kW (300hp)

SAE pump interface SAE "AA" to SAE "C"

DIN pump interface Group 05 to Group 3

ISO pump interface ISO 80-4 to ISO 200-4

Bosch pump interface ZBR to ZGR-S

Check Valves

All check valves can be supplied in cartridge type with industry standard cavities, in line bodies, sub-plate bodies or special manifolds.

Ball type, Poppet type, Ball type pilot to open, Poppet type pilot to open, Ball type pilot to close, Poppet type pilot to close, Pilot type with surge relief. Available in single and dual configurations.

Pressure range Up to 420 bar (6000 psi)

Flow range Up to 500 lpm (132 USgpm)

Pilot ratio range 2:1 to 4:1



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Custom Built Power Units

Hydraulic power units are designed and manufactured to customer specifications. Power source can be electric or air motor, petrol engine or diesel engine. All options in accessories can be offered including basic fixed displacement pumps with no controls to variable displacement load sensed single and multiple pumps with electronic displacement controllers, filtration packages, on board self diagnostic protection systems and noise control.

Cylinders

ASAE Slimline Agricultural and Heavy duty

2-1/2 inch bore in standard strokes of 6, 8, 12, 16, 18, 20, 24, 30, 36 and 48-inch
3 inch bore in standard strokes of 6, 8, 12, 16, 18, 20, 24, 30 and 36-inch
3-1/2 inch bore in standard strokes of 8, 12, 16, 18, 20, 24, 30 and 36-inch
4 inch bore in standard strokes of 8, 12, 16, 18, 24, 30 and 36-inch
5 inch bore in standard strokes of 8, 12, 16, 18 and 24-inch

Light Industrial

1-1/2 inch bore in standard strokes of 6, 8, 10 and 12-inch
2 inch bore in standard strokes of 6, 8, 10 and 12-inch

Re-Phasing

3 inch to 5 inch bore in 1/4-inch increments standard strokes of 8 and 12-inch

Tractor Top-Link

2-1/2 inch bore in standard strokes of 8 and 12-inch

Special Configuration

Cylinders of any size and layout can be designed and manufactured to your requirements.

D.C. Voltage Power Packs

D.C. power packs are assembled from standard components into almost any configuration.

Voltage	12 volt DC and 24 volt DC
Pump displacement	1, 1.5, 2.3, 3.3, 4.3 and 6.3cc/rev
Reservoir size	1.5, 2.8, 4.3, 4.5, 5.5, 9.0, 10 and 15.0 litre

Many options are available for DC power packs, they include: -



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PRODUCT LISTING

Single acting for power up and gravity fall, power only for supplying remote lever operated directional control valves and solenoid operated directional control valves up to 8 section which can be fitted directly to the power pack.

Directional Control Valves

Mono-block style up to 45-lpm

Double acting, single acting and motor spools can be used in any combination up to 4 spools.

Standard actuation is by a lever and options of cable and air operation can be offered. Electric start switches can be fitted to each spool to allow remote operations of DC voltage power units. The valves can be set up as open centre, closed centre and power beyond configurations, with and without relief valves to the inlet port. Centring options of 2-position detent, 3-position detent, spring centring and spring offset.

Flow capacity	Up to 45 lpm (10 IMPgpm)
Pressure range	Up to 350 bar (5000 psi)

Mono-block style up to 120-lpm

Double acting, single acting and motor spools can be used in any combination up to 5 spools. Standard actuation is by a lever and options of cable, air or a combination of these can be offered. The valves can be set up as open centre, closed centre and power beyond configurations, with and without relief valves to the inlet port. Centring options of 2-position detent, 3-position detent, spring centring and spring offset.

Flow capacity (7/8 ports)	Up to 90 lpm (20 IMPgpm)
Flow capacity (1-1/16 ports)	Up to 120 lpm (26 IMPgpm)
Pressure range	Up to 210 bar (3000 psi)

Sectional style

Double acting, 4 position float, single acting and motor spools can be used in any combination up to 10 spools. Standard actuation is by a lever and options of cable, air electric or a combination of these can be offered. The valves can be set up as open centre, closed centre, load sensed and power beyond configurations, series and parallel connections with and without relief valves to the inlet port. Electric start switches can be fitted to each spool to allow remote operations of DC voltage power units. Centring options of 2-position detent, 3-position detent, spring centring and spring offset. Full electric proportional control valves are available in many of the above configurations including pressure and flow compensating spools.



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Flow capacity Up to 180 lpm (47 USgpm)
Pressure range Up to 350 bar (5000 psi)

Solenoid operated style

Solenoid operated valves are generally offered in CETOP mount interface with 2/2, 2/3 and 3/4 port and position configurations. On / off and proportional coils can be offered in most sizes. Many spool configurations and options are available, below is the main specification detail.

Flow capacity Up to 530 lpm (140 USgpm)
Pressure range Up to 350 bar (5000 psi)
Mounting interface CETOP3, CETOP5, CETOP7 and CETOP8

Mechanically operated cartridge style

All mechanically operated cartridge style valves can be supplied in cartridge type with industry standard cavities, in line bodies, sub-plate bodies or special manifolds.

Normally closed 2/2, normally open 2/2, 2/3, reversing 2/4, normally closed 2/4, normally closed centre 3/4, normally closed centre 3/4, motor spool 3/4, tandem centre 3/4 and open centre 3/4.

Pressure range Up to 420 bar (6000 psi)
Flow range Up to 400 lpm (106 USgpm)

Pilot operated cartridge style

All pilot operated cartridge style valves can be supplied in cartridge type with industry standard cavities, in line bodies, sub-plate bodies or special manifolds. 3/2 external pilot and internal vent, 3/2 external drain (open centre in transition), 3/2 external drain (closed centre in transition), 3/2 external drain.

Pressure range Up to 420 bar (6000 psi)
Flow range Up to 400 lpm (106 USgpm)

Solenoid operated cartridge style

All solenoid operated cartridge style valves can be supplied in cartridge type with industry standard cavities, in line bodies, sub-plate bodies or special manifolds.

Bi-directional normally closed 2/2, Bi-directional normally closed direct acting 2/2, Bi-directional normally closed with restricted reverse flow 2/2, Bi-directional normally closed with free reverse flow 2/2,

Bi-directional normally open 2/2, Bi-directional normally open direct acting 2/2, Bi-directional normally open with restricted reverse flow 2/2, Bi-directional normally open with free reverse flow 2/2,



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Normally closed 2/2, Normally open 2/2, Normally closed 2/3, Normally open 2/3, Normally closed 3/3, Reversing selector 2/4, Closed centre 3/4, Open centre 3/4, Motor spool 3/4, Tandem centre 3/4, Tandem regenerative centre 3/4,

Pressure range Up to 350 bar (5000 psi)
Flow range Up to 285 lpm (75 USgpm)

Proportional electronic control cartridge style

All proportional electronic control operated cartridge style valves can be supplied in cartridge type with industry standard cavities, in line bodies, sub-plate bodies or special manifolds.

Motor spool 3/4 and Closed centre 3/4

Pressure range Up to 350 bar (5000 psi)
Flow range Up to 44 lpm (11.5 USgpm)

Diverter (Circuit Selector) Valves

Diverter valves are available in manual, air, cable and solenoid actuation. Standard configurations available are 2/3, 2/6 and 3/8

Pressure range Up to 250 bar (3600 psi)
Flow range Up to 180 lpm (47 USgpm)

Diverter Cartridge Valves

All diverter valves can be supplied in cartridge type with industry standard cavities, in line bodies, sub-plate bodies or special manifolds.

Normally open 2 way with external pilot and vent, Normally open spool type vent to close, Normally open pilot to close pressure compensating, Normally closed 2 way with external pilot and vent, Normally closed spool type vent to open, Normally closed spool type pilot to close, Normally closed spool type vent to open.

Pressure range Up to 420 bar (6000 psi)
Flow range Up to 500 lpm (132 USgpm)

Drive Couplings

Drive couplings are available in all standard shaft sizes to connect pumps to drive source and motors to the item to be driven. They come in steel and aluminium bodies with flexible elements to reduce shock and vibration. Solid female spline and keyed adaptors can be supplied for new applications and reclaiming existing hard to get couplings.



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Basic metric keyed shaft range: - 6, 11, 14, 19, 24, 28, 38, 42, 48, 55, 60 and 65 MM

Basic imperial keyed shaft range: - 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2 and 1-3/4 inch

DIN keyed 1:8 Tapered shaft range: - Group 1, 2 and 3

DIN keyed 1:5 Tapered shaft range: - Bosch ZB, ZF and ZG

Blank and pilot bore couplings can be machined to suit many different applications.

Filtration

Oil and air filtration is generally available in spin on canister, cartridge, and replaceable element styles.

Suction Filters

Flow range	Up to 400 lpm (105 USgpm)
Pressure range	Up to -10 bar (-145 psi)
Micron rating	from 125 micron nominal to 10 micron absolute

Return Filters

Flow range	Up to 400 lpm (105 USgpm)
Pressure range	Up to 10 bar (145 psi)
Micron rating	from 25 micron nominal to 10 micron absolute

Pressure Filters

Flow range	Up to 400 lpm (105 USgpm)
Pressure range	Up to 420 bar (6000 psi)
Micron rating	from 60 micron nominal to 10 micron absolute

Reservoir Air Breathers

Flow range (air)	Up to 1500 lpm (53 Cfm)
Micron rating	from 60 micron nominal to 3 micron absolute

Flow Control Valves

All flow valves can be supplied in cartridge type with industry standard cavities, in line bodies, mono block assemblies, sub-plate bodies or special manifolds.

Mechanical style

Needle valves, Priority with pressure compensated bypass, Restrictive pressure compensated, Priority with pressure compensated bypass with relief valve and reverse flow check features.



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Pressure range Up to 420 bar (6000 psi)
Flow range Up to 365 lpm (96 USgpm)

Motorised style

Needle valves, Priority with pressure compensated bypass, Restrictive pressure compensated, Priority with pressure compensated bypass with relief valve.

Pressure range Up to 350 bar (5000 psi)
Flow range Up to 189 lpm (50 USgpm)

Proportional electronic control

2 way normally closed partially pressure compensated, 2 way normally closed pressure compensated, 2 way normally open partially pressure compensated, 2 way normally open pressure compensated, 3 way pressure compensated priority style.

Pressure range Up to 210 bar (3000 psi)
Flow range Up to 36 lpm (9.5 USgpm)

Proportional electronic flow valves coupled with logic elements can be used to achieve very large flow rates.

Gear Boxes

Gear reduction boxes are available in straight and right angle drive configurations with interface connections for DIN and SAE inputs for electric and hydraulic motors. Output can be parallel keyed, male and female spline and flanged for wheel mounting

Output torque 1000Nm to 100000Nm (8850 inlb to 885000 inlb)
Ratio range 3.55:1 up to 3422.1:1
Maximum input speed 2800 rpm

Heat Exchangers

Air to oil

Air to oil heat exchangers requires airflow across the core to dissipate heat. An AC, DC or hydraulically driven fan can be used to achieve this. Alternatively the heat exchanger core can be placed in front of existing air blast source.

Pressure range Up to 26 bar (375 psi)
Flow range Up to 400 lpm (106 USgpm)



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Heat rejection Up to 4 kW per degree C differential

Water to oil

Pressure range Up to 20 bar (290 psi)
Flow range oil Up to 1400 lpm (370 USgpm)
Flow range water Up to 1500 lpm (396 USgpm)
Heat rejection Up to 20 kW per degree C differential

Hose Assembly Equipment

Crimping machines.

Crimp diameter range 12 MM to 300 MM (1/2 inch to 12 inch)
Power source Hydraulic hand pump, air / oil pump, 12/24 volt, 240 volt single phase and 415 volt 3 phase.
Control Manual, micrometre stop, automatic backstop, foot pedal and fully automatic programmable.

Hose cut off saws

Available to cut steel braided and multi-spiral hydraulic hose from 1/4 inch to 2 inch inside diameter
Power source 12/24 volt, 240-volt single phase and 415 volt 3 phase.

Skive tools

Internal and external tools for 1/4 inch to 2 inch hydraulic hose. Hand operated and electric drive units are available in single and multi head operation.

Hose test stands

Impulse, proof and burst type hose testers are available in manual and automatic operation with pressure ratings up to 2500 bar (35000 psi)
Power is provided from an outside air supply and the test fluid is water.

Hydraulic Hose, Hose Couplings and Adaptors

An extensive range of low, medium and high-pressure fluid connectors are available off the shelf.

Hose specifications

SAE and DIN in sizes 1/4 inch to 2-inch single wire, double wire, four spiral and six spiral. Many specialty hose styles including thermo plastic and stainless steel braided Teflon and AGA approved gas hose assemblies are available.



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Hose couplings

Hose couplings are available to suit the above hose styles in permanent crimp type and in many cases field attachable and push on. Thread styles are available in male and female BSPT, BSPP, NPT, NPS, JIC, JIS, UN O-ring, ORFS, METRIC ISO, METRIC DIN, SAE inverted flare, SAE 45 degree and SAE O-ring flange.

Adaptors

Thread styles are available in male and female BSPT, BSPP, NPT, NPS, JIC, JIS, UN O-ring, ORFS, METRIC ISO, METRIC DIN, SAE inverted flare, SAE 45 degree and SAE O-ring flange. Combinations of these threads are available in the one fitting.

Hydrostatic Transmissions

Displacements available	14 cc/rev to 250 cc/rev (0.85 ci/rev to 15.2 ci/rev)
Pressure range	Up to 420 bar (6000 psi)
Speed range	Up to 5000 rpm

Control options include manual, hydraulic, hydraulic proportional, electric and electric proportional. Accessory valves such as hot oil shuttles, cross line reliefs and anti cavitation check valves can be incorporated within the transmission or supplied as in line valves.

A range of service exchange units to suit agricultural harvesting equipment is also available off the shelf.

Load Control Valves

All load control valves can be supplied in cartridge type with industry standard cavities, in line bodies, mono block assemblies, sub-plate bodies or special manifolds.

Overcentre, counter balance and pilot operated check valves are available in many variations. Below is a brief listing. All available in single and dual configurations. Damped for inherently unstable applications, semi restrictive, restrictive, 3 port independent of back-pressure, vented, relieving features and reverse flow check features.

Pressure range	Up to 420 bar (6000 psi)
Flow range	Up to 200 lpm (53 USgpm)
Pilot ratio range	1.5:1 to 37.1:1



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Motors

Gerotor

Displacements available 8 cc/rev to 630 cc/rev (0.5 ci/rev to 38.5 ci/rev)
Power range Up to 12.8 kW (17.1 HP)
Speed range Up to 2440 rpm

Geroller

Displacements available 50 cc/rev to 800 cc/rev (3 ci/rev to 49 ci/rev)
Power range Up to 54 kW (72.5 HP)
Speed range Up to 1000 rpm

Fixed Gear

Displacements available 8 cc/rev to 150 cc/rev (0.5 ci/rev to 9.25 ci/rev)
Power range Up to 120 kW (160 HP)
Speed range Up to 3000 rpm

Fixed Vane

Displacements available 23 cc/rev to 317 cc/rev (1.4 ci/rev to 19.3 ci/rev)
Power range Up to 196 kW (262 HP)
Speed range Up to 4000 rpm

Fixed Piston

Displacements available 5 cc/rev to 250 cc/rev (0.3 ci/rev to 15.2 ci/rev)
Power range Up to 190 kW (254 HP)
Speed range Up to 8500 rpm

Radial Piston

Displacements available 188cc/rev to 6800 cc/rev (11.5 ci/rev to 415 ci/rev)
Power range Up to 149 kW (200 HP)
Speed range Up to 500 rpm

Variable Piston

Displacements available 17 cc/rev to 115 cc/rev (1.04 ci/rev to 7.02 ci/rev)
Power range Up to 220 kW (295 HP)
Speed range Up to 3800 rpm

Control options include manual, hydraulic, hydraulic proportional, electric, electric proportional, pressure compensating, load sensing and torque limited.



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Oil

Grade ISO 46 and 68
Size 4, 20 and 205 litre

Many other grades of hydraulic oil and lubricants can be supplied in various package sizes.

Oil Level and Temperature Gauges

Visual
Visual with visual temperature
Visual with visual temperature and electrical output for level
Electrical output for level
Electrical output for level and temperature

Over Hung Load Carriers (out rigger bearings)

SAE "A" Mounting

Input mount SAE "A" and SAE "B" 2 bolt
Input shaft 5/8, 3/4, 7/8 and 1-inch parallel keyed shaft
Output mount SAE "A" and SAE "B" 2 bolt
Output shaft 1-1/2 and 1-inch parallel keyed shaft

DIN Mounting

Input mount Group 1, 2 and 3
Input shaft 1:8 taper keyed shaft
Output mount Group 1, 2 and 3
Output shaft 18, 22 and 24 MM parallel keyed shaft

Power Take Off Speed Increaser Gear Boxes

Speed increasers are used for attaching pumps to tractor power take off shafts to give an auxiliary oil supply.

Input speed 540 and 1000 RPM
Input shaft 1-3/8 inch 6T spline and 21T spline
Out put mounting DIN Group 1, 2 and 3
Out put mounting SAE SAE "A" and "B" 2 bolt
Out put torque Up to 189Nm (1668 in lb)
Ratios 2.0:1, 3.0: 1 and 3.1:1



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Pressure Regulating Valves

All regulating valves can be supplied in cartridge type with industry standard cavities, in line bodies, sub-plate bodies or special manifolds.

Mechanical style

Pilot operated spool type with relieving feature, Direct acting spool type with relieving feature, internal and external venting.

Pressure range Up to 350 bar (5000 psi)
Flow range Up to 200 lpm (53 USgpm)

Proportional electronic control

Side cylinder port 2 position 3 way.

Pressure range Up to 124 bar (1800 psi)
Flow range Up to 30 lpm (8 USgpm)

Pressure Relief Valves

All relief valves can be supplied in cartridge type with industry standard cavities, in line bodies, sub-plate bodies or special manifolds.

Mechanical style

Direct acting, Pilot operated, internal and external vent features, Kick-down, Unloading, Free reverse flow features, Cross-line in single cartridge

Pressure range Up to 420 bar (6000 psi)
Flow range Up to 400 lpm (106 USgpm)

Proportional electronic control

Decreasing pressure with increasing current and increasing pressure with increasing current.

Pressure range Up to 350 bar (5000 psi)
Flow range Up to 95 lpm (25 USgpm)

Proportional Cartridge Valves

All proportional cartridge valves can be supplied in cartridge type with industry standard cavities, in line bodies, sub-plate bodies or special manifolds.

Relief electronic control

Decreasing pressure with increasing current and increasing pressure with increasing current.



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Pressure range Up to 350 bar (5000 psi)
Flow range Up to 95 lpm (25 USgpm)

Pressure regulating electronic control

Side cylinder port 2 position 3 way.

Pressure range Up to 124 bar (1800 psi)
Flow range Up to 30 lpm (8 USgpm)

Flow regulator electronic control

2/2 normally closed partially pressure compensated, 2/2 normally closed pressure compensated, 2/2 normally open partially pressure compensated, 2/2 normally open pressure compensated, 2/3 pressure compensated priority style.

Pressure range Up to 210 bar (3000 psi)
Flow range Up to 36 lpm (9.5 USgpm)

Proportional electronic flow valves coupled with logic elements can be used to achieve very large flow rates.

Pumps

Manual lever operated with reservoir

Displacements available 10 cc to 45 cc (0.6 ci to 2.75 ci) per stroke
Pressure range Up to 300 bar (4350 psi)
Reservoir size 1 to 10 litre

Manual lever operated without reservoir

Displacements available 10 cc to 45 cc (0.6 ci to 2.75 ci) per stroke
Pressure range Up to 300 bar (4350 psi)

Fixed Gear

Displacements available 8 cc/rev to 150 cc/rev (0.5 ci/rev to 9.25 ci/rev)
Pressure range Up to 250 bar (3625 psi)
Speed range Up to 3600 rpm

Fixed Vane

Displacements available 6.5 cc/rev to 193 cc/rev (1.1 ci/rev to 11.7 ci/rev)
Pressure range Up to 210 bar (3000 psi)
Speed range Up to 3000 rpm



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Fixed Piston

Displacements available	5 cc/rev to 250 cc/rev (0.3 ci/rev to 15.2 ci/rev)
Pressure range	Up to 350 bar (5000 psi)
Speed range	Up to 5000 rpm

Variable Piston

Displacements available	5 cc/rev to 250 cc/rev (0.3 ci/rev to 15.2 ci/rev)
Pressure range	Up to 350 bar (5000 psi)
Speed range	Up to 5000 rpm

Control options include manual, hydraulic, hydraulic proportional, electric, electric proportional, pressure compensating, load sensing and torque limited.

Quick Hitch Valves

Quick hitch valves are used for the easy connection and disconnection of attachments to excavators, backhoes and any machine that uses a variety of attachments. These valves incorporate a pressure-reducing valve to protect the hitch cylinder.

Sizes available	3/8 BSPP and 9/16 UN oring ports
Inlet pressure	Inlet 350 bar (5000 psi)
Reduced pressure range	20 bar (300 psi) to 300 bar (4350 psi)

Quick Release Couplings

A full range of quick release couplings is available in many styles and configurations including ISO and HTMA specifications.

Size	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2 and 2-inch
Pressure range	Up to 700 bar (10000 psi)

Reservoir's

Reservoir's can be supplied in any size and layout by manufacture. Below is a listing of standard reservoirs, which can be supplied with and without lids.

Cast Aluminium

Sizes available: -	3, 6, 10, 16, 25, 55 and 75 litre
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Fabricated Steel

Sizes available: -	40, 55, 75, 130 and 200 litre
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Sequence Valves

All sequence valves can be supplied in cartridge type with industry standard cavities, in line bodies, sub-plate bodies or special manifolds.

Direct acting normally open with external pilot and drain, Direct acting 3 way with internal drain and external pilot, Pilot operated poppet type with reverse free flow feature, Direct acting poppet type with reverse free flow feature, Pilot operated spool type, Pilot operated spool type with kick-down and unloading and direct acting with internal pilot and free reverse flow feature.

Pressure range Up to 420 bar (6000 psi)
Flow range Up to 400 lpm (106 USgpm)

Shuttle Valves

All shuttle valves can be supplied in cartridge type with industry standard cavities, in line bodies, sub-plate bodies or special manifolds.

Ball type 2/3 way, Poppet type 2/3 way, 2/3 way spring offset, 3/3 way closed centre spring centre, 3/3 way open centre spring centre

Pressure range Up to 420 bar (6000 psi)
Flow range Up to 175 lpm (46 USgpm)

Spare Parts

We carry a selection of fast moving and commonly used parts for our represented and stocked components.

A variety of genuine and after market replacement parts is available for many brands of hydraulic components.

Specialist Hydraulic Integrated Circuits

Rock Hammer Valves

Quick Hitch Valves

Open centre Air Seeder fan control valves

Closed centre non-pressure compensating Air Seeder fan control valves

Load sensing non-pressure compensating Air Seeder fan control valves

Closed centre pressure compensating Air Seeder fan control valves

Load sensing pressure compensating Air Seeder fan control valves



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Steering Equipment

Orbital Steering Valves

Displacement 40 cc/rev to 1000 cc/rev (2.4 ci to 61 ci)
Options available include built in valves, open centre non load reaction, open centre load reaction, closed centre non load reaction and load sensed
Accessories available include steering columns, steering wheels, bolt on relief valves, bolt on priority valves and torque amplifiers.

Subplates for Cetop Valves

Subplates are available for Cetop3, Cetop5, Cetop7 and Cetop8 valves in series and parallel configurations. Manifolds are available up to 8 station with and without pressure relief valves.

Test and Analysis Equipment

Analogue Turbine Portable Flow Test Units

Flow capacity Up to 800 lpm (210 USgpm)
Pressure range Up to 480 bar (7000 psi)

Digital Turbine Portable Flow Testers

Flow capacity Up to 800 lpm (210 USgpm)
Pressure range Up to 480 bar (7000 psi)

These units can be supplied as complete units or the readout and turbine load cell is available separately

Analogue Sharp edged Portable Flow Indicator Kits

Flow capacity Up to 180 lpm (47 USgpm)
Pressure range Up to 420 bar (6000 psi)

Analogue Sharp edged Portable Flow Indicators

Flow capacity Up to 400 lpm (106 USgpm)
Pressure range Up to 420 bar (6000 psi)

Pressure Gauges

Gauges can be supplied individually or can be set up in test boxes with any number and combination of pressure ranges. Glycerin filled bottom entry and panel mount is our standard orientation.

Face size 63MM and 100MM (2-1/2 inch and 4 inch)
Pressure range -1 bar (-14.5 psi) to 1000 bar (14000 psi)



39 Sorbonne Crescent
Canning Vale
Western Australia 6155

Phone 08 9455 2344
Fax 08 9455 2045
E-mail
admin@gerrardhydraulics.com.au

PRODUCT LISTING

Test Points

Test points are available in most configurations to suit most threads, test hoses and adaptors.

Test Hoses

Test hoses can be made to order with direct to gauge, 7/16 and 9/16 JIC female swivel or 16MM X 2MM female test point adaptor.

2MM bore hose is rated to 630 bar

4MM bore hose is rated to 340bar

Tube

Cold drawn and seamless low carbon hydraulic tube to ASTM A179/A450

Outside diameter	Wall thickness
6.35MM (1/4 inch)	0.91MM (20swg)
9.53MM (3/8 inch)	1.22MM (18swg)
12.70MM (1/2 inch)	1.63MM (16swg)
15.88MM (5/8 inch)	1.63MM (16swg)
19.05MM (3/4 inch)	2.64MM (12swg)
25.40MM (1 inch)	2.64MM (12swg)
31.75MM (1-1/4 inch)	2.03MM (14swg)
38.10MM (1-1/2 inch)	2.64MM (12swg)

Tube Support Clamps

A range of standard and heavy-duty tube support clamps is available in the following sizes. They can be supplied in single, double and stackable sets.

To suit 6, 6.4, 8, 9.53, 10, 12, 12.7, 14, 15.88, 16, 19, 22, 25, 25.4, 28, 30, 32, 35, 38 and 42 MM to fit the outside diameter of most tube and hydraulic hoses.

Tubing Tools

37-deg roller flaring tools	1/4, 3/8, 1/2, 5/8, 3/4, 1 and 1-1/4 inch OD tube
Lever type benders	1/4, 3/8, 1/2, 5/8 and 3/4 OD tube
Gear type benders	3/4, 1 and 1-1/4 inch OD tube
Tube cutters	Up to 66MM (2-5/8 inch)

Kits for flaring, cutting and forming copper, steel and stainless steel tubing are available for most automotive and hydraulic applications.



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