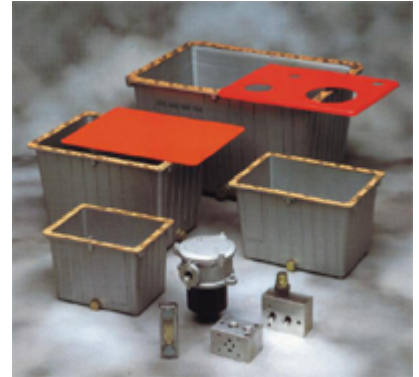


**In this month's Hydrafile:****New Product - Aluminium Oil Tanks - OMT**

At Hyspecs we manufacture and stock our own line of steel hydraulic oil tanks ranging from 35-225 litres as standard. To download pricing and specification information [click here](#).

Hyspecs also imports and stocks smaller aluminium hydraulic oil tanks by Italian manufacturer OMT. These tanks are diecast aluminium supplied complete with lid and gasket. The lid is left blank to allow the designer to cut appropriate holes for the electric motor, filters, filler/breather and any other bulk head accessories that may be required. Nominal capacities currently stocked are 16 and 25 litres, corresponding to 3/4 of total capacity.

[Download the specification sheet here](#) (see pages 6 and 7). For more information, including pricing please talk with one of our sales engineers today or drop us an email using the details in the footer of this newsletter.



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**Featured Product Range -Eaton/Vickers Power Steering**

Hyspecs stocks a full line of Eaton/Vickers Char-Lynn power steering components.

**Fluid Linked Systems**

Utilising the Char-Lynn steering control unit a fully fluid linked steering system can be implemented. This means there is no mechanical connection between the steering control unit (SCU), the pump and the steering cylinders. The SCU consists of a manually operated directional control servo valve and feedback meter element in a single body. It is used principally for fluid linked power steering systems but it can be used for some servo type applications or any application where visual positioning is required.



Char-Lynn power steering control units offer the following advantages:

- Minimizes steering linkage—reduces cost, provides flexibility in design.
- Provides complete isolation of load forces from the control station - provides operator comfort.
- Provides continuous, unlimited control action with very low input torque.
- Provides a wide selection of control circuits and meter sizes.
- Can work with many kinds of power steering pumps or fluid supply.



Download the Hyspecs [power steering pricelist here](#). Download the [Eaton Power Steering brochure here](#).

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## Load Sensing Systems - Priority Flow Control

The SCU also comes with an optional load sensing port which, when coupled to an Eaton load sensing priority valve can redirect oil flow to another function when the steering is not in use. The steering takes priority over the secondary function, i.e. front end loader. This gives the advantage of allowing full flow to the secondary function when no steering input is required.



## Q-Amp Power Steering Units

Q-Amp power steering units provide varying displacement of the steering control unit with the input rpm of the steering wheel. When steering at a slow rpm the effective displacement is the same as the meter displacement but as the input rpm increases the effective displacement shifts to 1.6-2 times depending on the type of steering control unit.

Articulated vehicles such as wheel loaders, log skidders, scrapers, trucks, and similar vehicles can benefit from this feature. While roading, a slow movement of the steering wheel (input speed), will not overcorrect steering. Increasing input speed will produce the additional steering flow required to quickly change the vehicle's direction. For example, operating log skidders in the woods requires very quick steering. This same log skidder on the road would be extremely difficult to steer a straight normal course. The variable ratio feature provides good steering in both conditions. Combines, row crop tractors, and large articulated agricultural tractors also can benefit from this feature when travelling down a field. It will be easier to follow rows or furrows, and still be able to make fast turns at the end of the rows.

Download the Hyspecs [power steering pricelist here](#). Download the [Eaton Power Steering brochure here](#).

## Mechanically Linked Systems - Torque Generator

Eaton Char-Lynn torque generators provide high torque rotary power with low manual input. The combination of control valve and power elements in a single unit provides an economical power steering unit for many vehicles. The control valving is open centre and the power stream fluid circulates through the unit back to the reservoir at very low pressure when the system is not being used. Manual input on a steering wheel connected directly to the input shaft deflects the internal porting to direct flow from the power source to the Gerotor section producing the powered output.



- Power assist for vehicle steering.
- Power assist on gates and valves, eliminating the large hand wheels.
- Large indexing tables
- Manually operated gates and valves
- Manual positioning devices
- Mechanical steering systems
- Turntables

## Power Steering Pumps

Hyspecs stocks the very well known Vickers VTM 42 power steering vane pump. The balanced vane pump eliminates pressure-induced bearing loads to provide longer life and reduced maintenance.

- Integral valving - Flow control and relief eliminate the need for separate valving.
- Integral tank.

Download the Hyspecs [power steering pricelist here](#). Download the [VTM 42 brochure here](#).



Kind regards

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