

STANDARD HYDRAULIC POWER UNITS 30 & 60 LITRE



**NEW**



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**"High quality, versatile, well designed power units at a highly competitive price - minimising your installation and running costs"**

## GENERAL DESCRIPTION

### ■ Suitable for Your Needs?

Nominal tank capacities	30 and 60 litres
Flow rates from	1.8 to 22 L/min
Operating pressure	7 to 210 bar (Higher on request)
Electric motors from	0.55 to 4 kw

In addition to the basic power unit you can specify up to six valve stacks (each stack can contain pressure, flow and directional functions) which are assembled onto the power unit and tested prior to delivery, making for a remarkably compact and efficient system. In the majority of cases there is no need for additional hydraulic valves within your circuit.

### ■ Your Best Choice

Our investment in the design of these units has produced a product which will ensure high reliability & low maintenance throughout its life. Our design of tank is stronger and quieter than conventional reservoirs. The modular nature of these units and the use of stock components enables us to offer short lead times that you can depend upon. We have selected the best parts for the job from leading international suppliers, their quality need never let your product or plant down.

### ■ Saves on the Cost of Purchase

Throughout the design phase cost was always a consideration therefore commonality of components across the range together with a modular construction ensures that we can produce a cost effective unit in the shortest possible lead time. Components are continuously held in stock providing flexibility on any build configuration and readily available spares.

### ■ Saves on the Cost of Installation

Supplying the unit with valves mounted and tested, the unit painted, mountings designed-in, lifting eyes provided and optionally the motor wired to a starter isolator, all goes to providing you with an hydraulic power source that will dramatically reduce your installation time and costs.

### ■ Saves on the Running Cost

The number of standard options of flow and power along with the high pressure capability of these units makes it possible to accurately match your power requirements, providing efficiency savings over your machines life. Noise levels have been reduced (to 75 dBA) - improving the environment in which the units are



used, this has been achieved by making the tank stiffer, submerging the pump and the careful selection of components. Reduced noise improves the productivity of those using the machine it powers.

### ■ Saves on Service Cost

Cost are reduced by prolonging system life with a 10µ nominal return line filter and a filtered breather fitted as standard. The unique tank lid design and gasket mounted components eliminate the ingress of contamination. To prolong system life, thus reducing costs we have selected reputable components that are available worldwide. At a glance oil level/temperature, element condition and system pressure can be clearly identified. System pressure can be adjusted and breather, filter and solenoids can be replaced with ease.

### ■ Environmental Benefit

Not only has the noise level been reduced but the design of our units has eliminated leakage (hence no drip tray) and the use of stacking valves reduces the number of connections therefore potential leak paths on your machine.

### General Description

These hydraulic power units comprise: drive assembly (electric motor, bellhousing and coupling); gear pump; valve block (with pressure relief valve and pressure gauge); return line filter, oil filter/breather and oil

level/temperature gauge, all mounted to a reservoir of 30 or 60 litre capacity.

### Operation

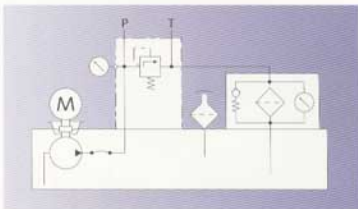
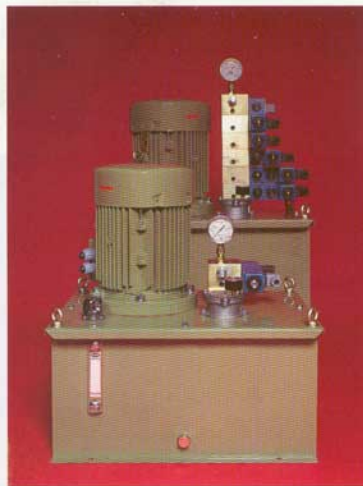
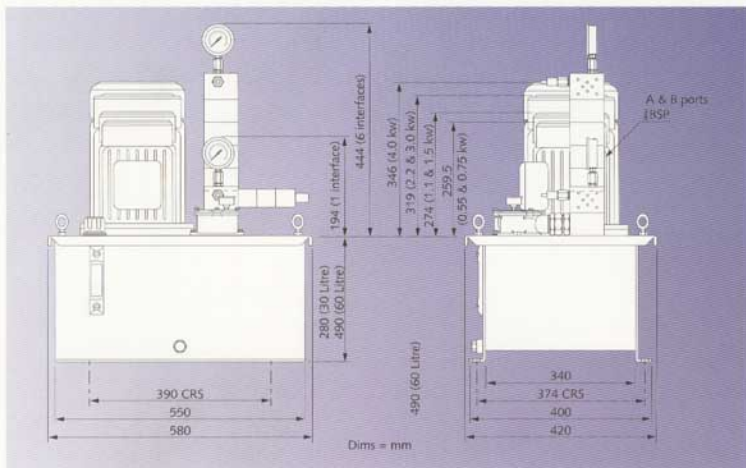
The reservoir is filled with oil via the filler breather. The pump draws fluid from the reservoir through a suction

pipe and delivers it into the system via the valve block. The pressure gauge shows the system pressure, the maximum pressure being limited by the adjustable relief valve. Returning oil is filtered by a 10µ nominal tank immersed filter,

ensuring the long and trouble free life of your system.

### Control Manifolds

The power units can be supplied with up to six NG6 (CETOP3) manifold stations for performing control



functions, enabling a complete control system to be built up from vertical and horizontal modular block elements.

#### Ordering

The ordering code on the back page should be used to specify your basic power unit requirement. When control valves are also required constituent parts can be specified using the modular stack selection sheet (supplied separate to this leaflet).

#### Fluid Recommendations

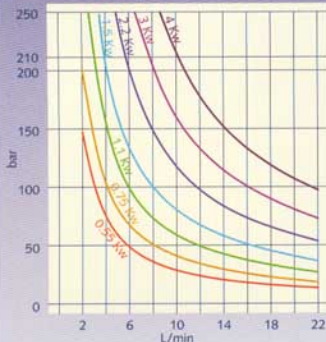
Recommended viscosity range for normal running oil should be between 13 and 54 cSt, at start up (cold) oil should have a viscosity of less than 860 cSt.

Recommended oil - Shell Tellus T37 (or equivalent)  
Shell Tellus T37 oil has the following viscosity -  
600 cSt @ -10° C  
19 cSt @ -60° C

Note: The unit should not be run at temperatures in excess of 60° C.

## ORDERING CODE

- 1) Establish flow and pressure requirements.
- 2) Select suitable motor size from the graph.
- 3) Select suitable pump

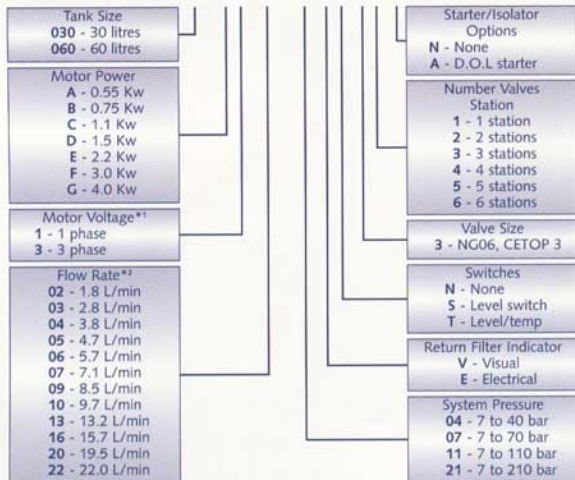


- 4) Select suitable tank size from the table.
- 5) Select number of valves required.

- 6) Select required optional extras:-
  - a) Electrical filter condition indicator.
  - b) Level switch
  - c) Level/temperature switch.
  - d) D.O.L. starter

Pump L/min**	Tank capacity Litres
1.8	30 or 60
2.8	
3.8	
4.7	
5.7	
7.1	
8.5	60
9.7	
13.2	
15.7	
19.5	
22.0	

### PUKS 030 B 1 02 / 04 V S 3 6 A



\*\* Motor Voltage, 240 vAC 1 phase or 415 vAC 3 phase. Note: for single phase (13amp) supply maximum power is limited to 1.1 kw.

\*\* Flow rate is calculated at 1450 rpm assuming 96% volumetric efficiency, motor speeds vary with motor size, if flow rate is critical please ask for specific details.



## Comar Engineering Services Limited

Unit D  
Key Industrial Park  
Planetary Road  
Wednesfield  
Wolverhampton  
West Midlands  
WV13 3YA

Tel: 01902 383000  
Fax: 01902 739430

E-Mail:  
sales.comar@btconnect.com

Hydraulics &  
Pneumatics  
Repairs  
Sales  
Service  
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