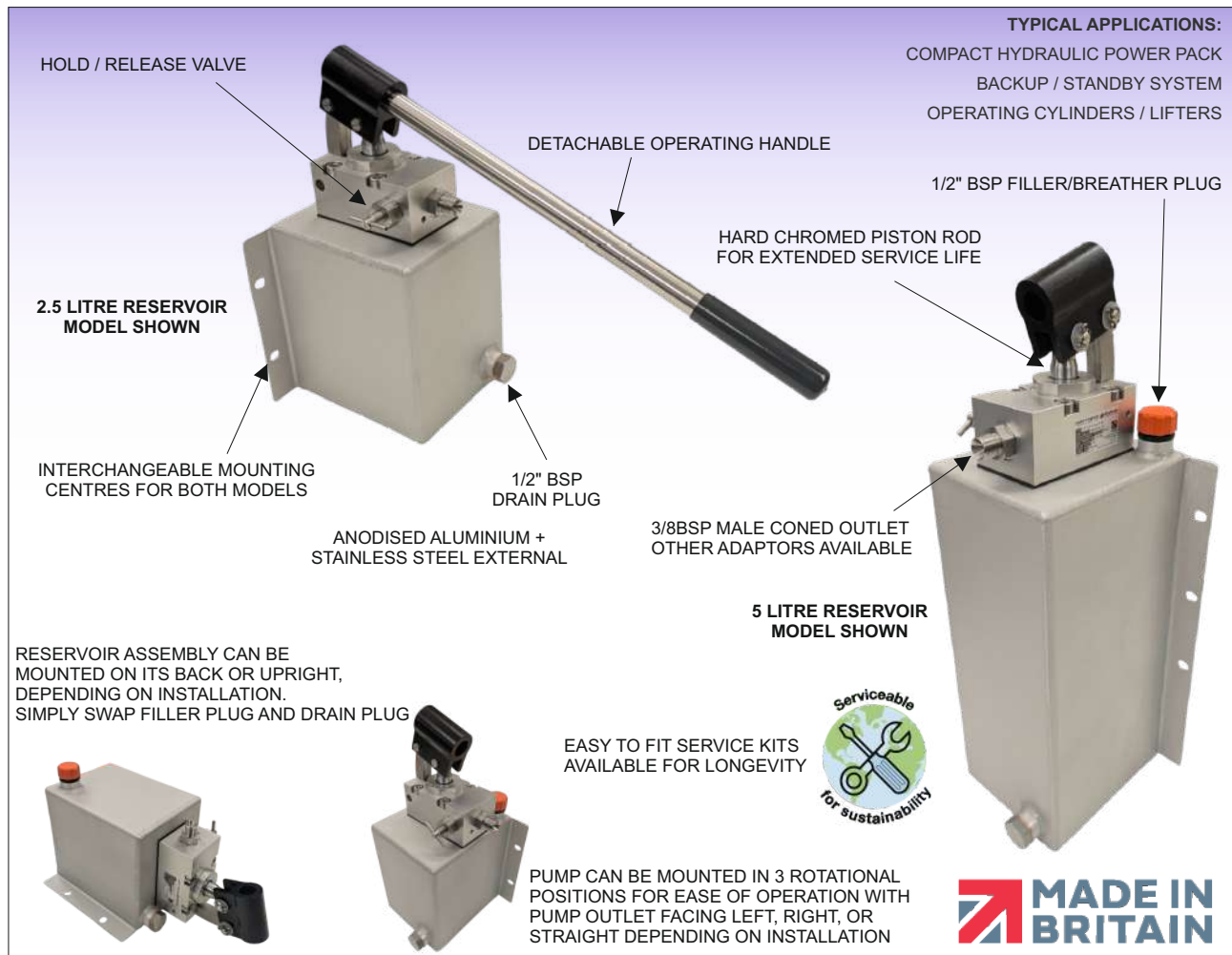




SARUM
HYDRAULICS
Designers & Manufacturers of Micropac® Hydraulics

Micropac® TT series Tipper Trailer Manual Hydraulic Pump



A compact and cost effective solution for manual hydraulic power FEATURES

- Proven Micropac® parts for reliable operation
- 3 pump mounting options for ergonomic operation
- Good value OEM pump solution
- Suitable for use with mineral oil
- Double acting operation
- Built in strainer on pump inlet for added reliability
- Sturdy construction; anodised aluminium body
- Integral Hold / Release valve
- Hard chromed piston rod for long life
- Max operating pressure 207 bar / 3,000psi
- 20cc Displacement per double stroke (up+down)
- Operating handle easily removable for storage
- Lightweight; from 3kg dry weight
- Nitrile seals standard; optional Viton®
- Operating temperature range -20°C to +80°C
- Mount reservoir on back or upright

INSTALLATION & MAINTENANCE

APPLICATION

The unit is suitable for any application requiring manual generation of hydraulic power eg operating hydraulic cylinders or actuators.

A detachable operating handle mounts into the clevis orifice.

The pumps displacement is 20cc per double stroke (up & down on the operating handle) and is double acting. This means fluid is displaced on both up and down movements on the handle.

Sealing options are Nitrile, and "Viton" fluorocarbon elastomers, specified at time of ordering. Other options; please enquire.

MATERIALS

The materials of construction are anodised aluminium alloy 5251 and 6083T6, 303/304 stainless steel, 316 stainless steel, other parts in UHMWP, PTFE, Polyurethane and elastomeric sealing. Consult factory if in doubt.

SAFETY

This unit is a component forming part of a hydraulic pressure system. If forming part of a permanent installation, the system should be designed, operated and maintained in accordance with statutory requirements and other relevant instructions. A risk assessment covering safe installation, operation and maintenance should always be carried out prior to use.

Under the EU Pressure Equipment Directive (PED) 2014/68/EU and the UK Pressure Systems (Safety) Regulations, the unit is not required to be CE or UKCA marked.

INSTALLATION

The pump can be mounted onto the reservoir in 3 positions, with the outlet pointing left, forward, or right. A backward facing outlet is not possible.

The reservoir can be mounted upright, with the mounting flanges against a wall, or laid flat with the mounting flanges on the floor.

CONNECTIONS

The pressure connection on the pump manifold is a 9/16-18UNF/SAE female port, to which we fit a 3/8BSPP male coned adaptor fitting. Alternative outlet fittings are available including BSP, JIC, NPT, Tube compression adaptors and Metric in male or female configurations. Consult the factory.

COMMISSIONING

The pump should be operated after installation to leak test and bleed the hydraulic circuit. Failure to do so may result in reduced pump displacement and a spongy action.

Ensure the reservoir has been filled with fluid, then open the Hold/release valve and start to cycle the pump until it has primed. Once primed and fluid is cycling back to the reservoir through the open hold/release valve, shut the hold/release valve and continue to pump, building up pressure in the outlet line. The outlet line will also need to be vented to remove any air from the circuit. Once all air is removed and the unit has been primed, connect up the cylinder or other equipment to the outlet line.

MAINTENANCE

Maintenance operations should only be carried out by a competent service engineer.

The inlet strainer is easily accessible for cleaning. The inlet and outlet check valves are also easily serviced. Seals are replaced using standard tools. Service kits are available.

Sarum Hydraulics Ltd also offer a servicing facility; please advise before returning the unit to us.

SPECIFICATION

Displacement/ stroke, max. operating pressure, max. flow:

20cc per double stroke, up to 207 bar max.

Typically 1 litre/ minute flow rate (1.5 cu.in./stroke)

Nominal operating hand load:

450mm handle: 491N @ 207 bar

625mm handle: 354N @ 207 bar

Compatibility: mineral oil (nitrile seals).

Viton® Fluorocarbon sealing options- check compatibility first; if in doubt, consult factory.

Ambient operating temperature range: -20 to 40°C

Media operating temperature range:

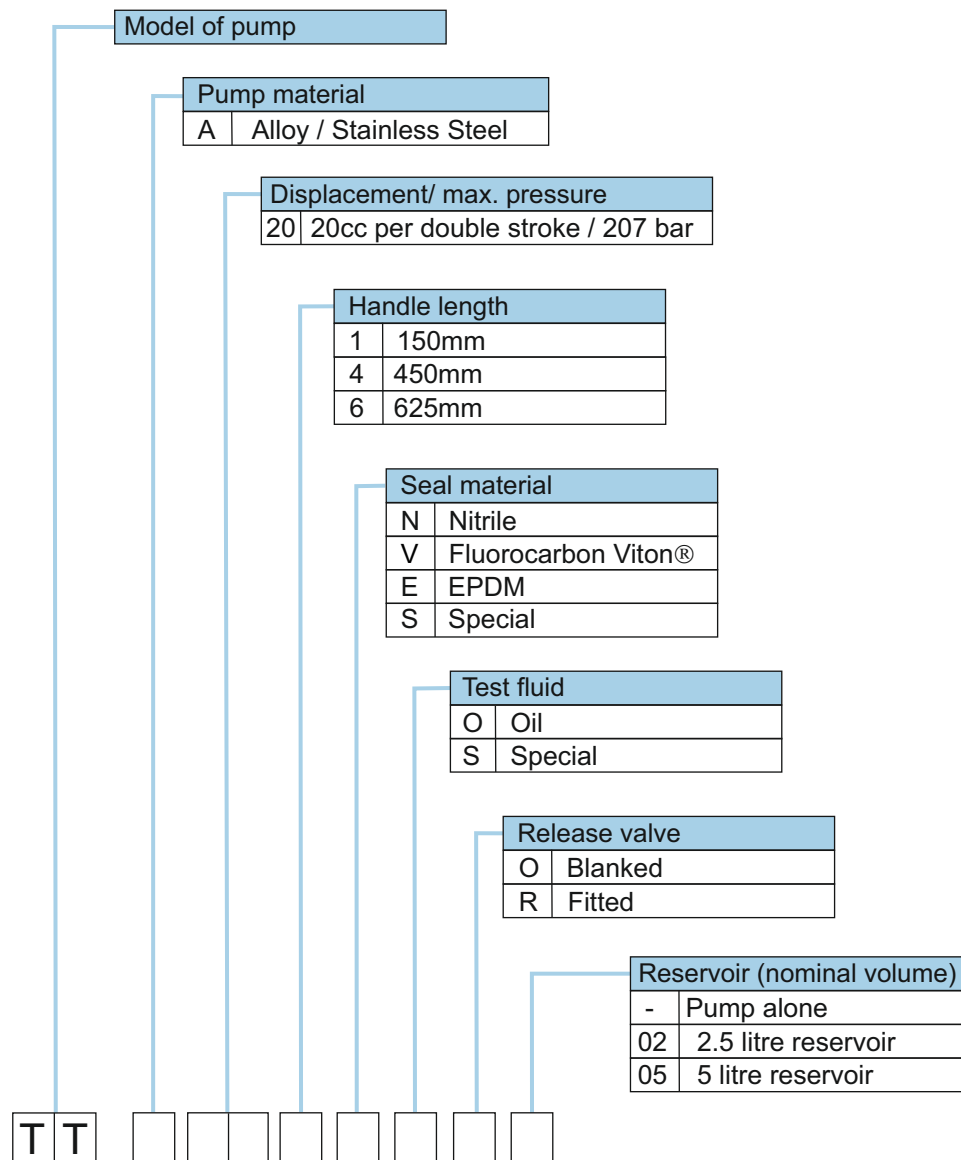
Nitrile: -35 to 80°C

Flurocarbon: -26 to 80°C

DIMENSIONS

SEE INSTALLATION DRAWINGS FOR EACH MODEL

ORDERING CODES



We are a long established ISO 9001:2015 certificated designer and manufacturer of hydraulic equipment. Full details of other products in our range are available from:

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We invest heavily and continuously in product development.
 Specifications are therefore liable to change without prior notification.
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