

Micropac[®] MC series Compact Hydraulic Hand Pump



A compact and versatile hydraulic hand pump & reservoir FEATURES

- Rugged construction; side or base mounting
- Compact design; detachable operating handle
- Plated carbon steel and 316 stainless options
- 20cc or 175cc reservoir with filler breather
- Compatible for use with mineral oil
- Long life- hard chrome piston rod/ bronze bearing
- Single acting operation pumps on down stroke
- Inlet and outlet check valves built-in

- Output 0.6cc/stroke; 400bar max. pressure
- Low operating hand load- 100N at 400 bar
- Optional pressure hold/ release and relief valves
- Nitrile rubber sealing; other options available
- Operating temperature range -20°C to 80°C
- Optional outlet adaptors and 3 or 4 way valves
- Factory support for application and use
- British designed and manufactured

INSTALLATION & MAINTENANCE

APPLICATION

The unit is suitable for applications requiring manual generation of hydraulic power e.g. control system pilots, small actuators or calibration. The small displacement from this compact unit will limit application in larger systems.

The unit is suitable for use with mineral oil and other similar viscosity fluids. Standard seals are nitrile rubber - check compatibility for medium. If in doubt, consult factory.

For applications using low viscosity liquids, we recommend use of our MW series hand pumps with positive sealing poppet-type check valves.

MATERIALS

MC-O: zinc plated carbon steel body, clevis and handle; other bronze and stainless steel components.

MC-3: 316 stainless body, reservoir, clevis & handle; other small amounts of 302/303/304/420/431 stainless steel and CW307 bronze.

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 and regulatory 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 2016, the unit is not required to be CE or UKCA marked.

INSTALLATION

SPECIFICATION

Ensure that mounting surface is flat and can withstand pump handle operating force.

The body is tapped M8 in two places for mounting onto a vertical surface. These mounting holes must not be drilled out or otherwise modified in any way.

INSTALLATION continued

Mount the pump on a suitable plate and secure with 2 suitable M8 fixings (not supplied). An optional right angle mounting bracket is available for base mounting onto a horizontal surface.

Mounting orientation must only be as shown on page 1 (pump inlet has to be flooded, reservoir filler cap not leak-tight as it has a breather element).

CONNECTIONS

Make connection to the outlet port with suitable 1/8" NPT adaptor or tube fitting.

Where a pressure gauge is required, this can be mounted into the outlet line using a tee.

A 3 or 4 way rotary valve can also be supplied for the outlet; contact the factory.

COMMISSIONING

The reservoir may be filled by unscrewing the filler cap and topping up to desired level with clean fluid; do not over fill. Always refit filler cap after top up.

Fit operating handle to handle spigot. If fitted, close the release/ hold valve by screwing knob in fully clockwise; do not over-tighten. Operate the pump handle by moving out and in. Bleed system of air as required then operate pump to achieve maximum required pressure. Check for leaks in the system.

To release pressure, unscrew release/ hold valve knob, slowly for a controlled release.

To set relief valve, remove cap, adjust set screw whilst operating hand pump to achieve maximum pressure requirement, then refit cap.

MAINTENANCE

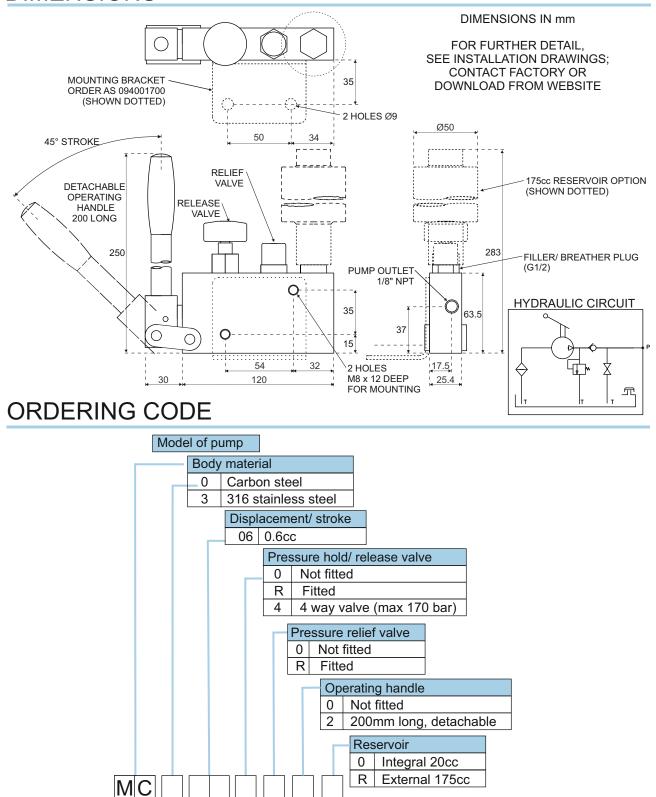
Maintenance operations should only be carried out by a competent service engineer.

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

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

Displacement/ double stroke: 0.6ccCompatibility: mineral oilMax. operating pressure: 400 barAmbient operating temperature range: -20 to 40°CMax. flow: 24cc/min (typical)Media operating temperature range: -20 to 80°CNom. operating hand load: 132N nom. @400 barWeight: 1.8kg (steel), 1.95kg (316). 175cc- add 0.6kg

DIMENSIONS



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:

Sarum Hydraulics Limited Unit 1 Danebury Court, Salisbury, SP4 6EB, UK Tel: 44(0)1722 328388 Fax: 44(0)1722 414307 email:pumpsales@sarum-hydraulics.co.uk www.sarum-hydraulics.co.uk

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