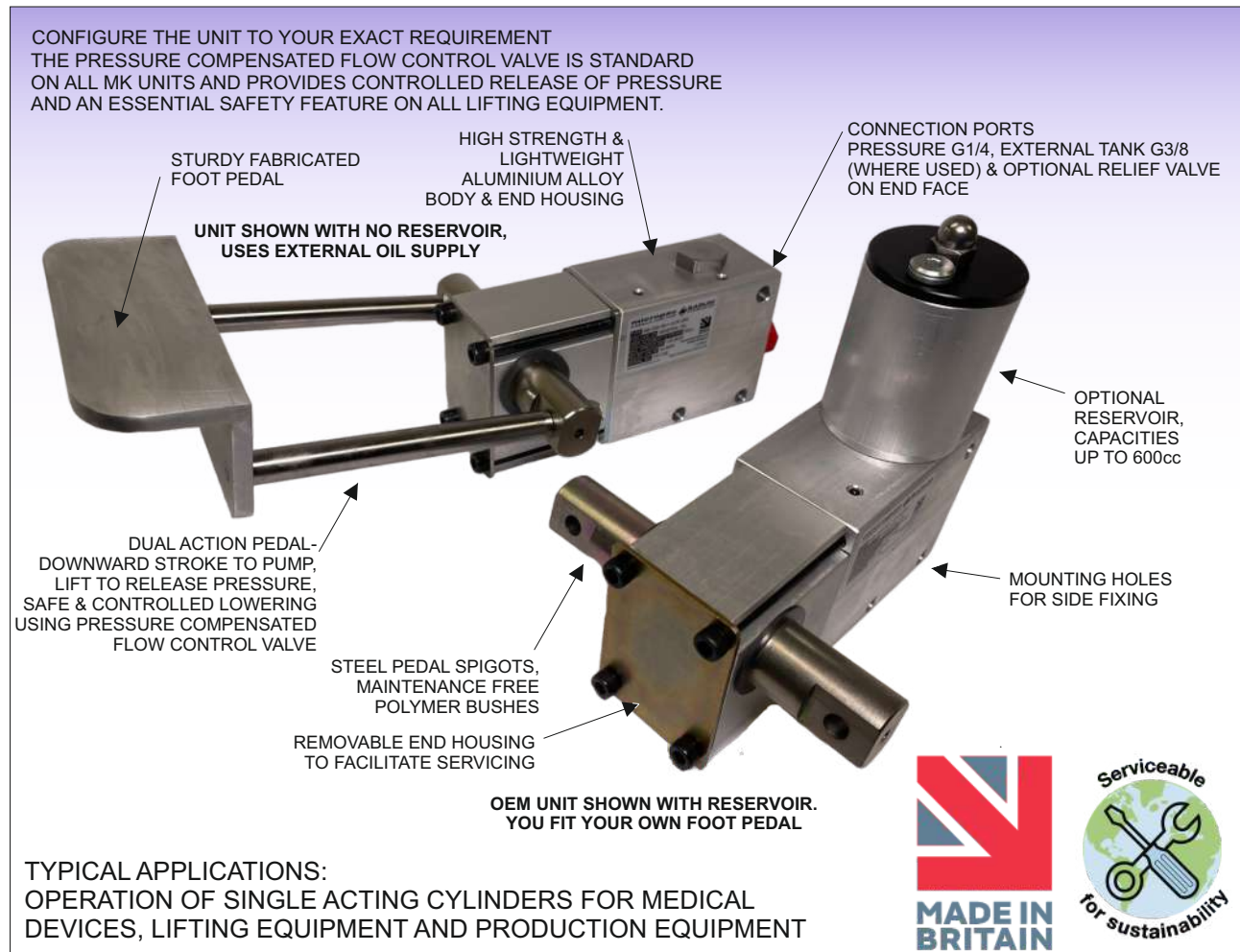




SARUM
HYDRAULICS
Designers & Manufacturers of Micropac® Hydraulics

Micropac® MK Hydraulic Foot Pump

Available as an OEM unit excluding pedal or add the optional foot pedal, reservoir, relief valve or floor base plate.



FEATURES

- Rugged & proven long-life hydraulic foot pump
- Dependable operation for OEM applications
- Configure the unit to your exact requirement
- Single pedal: pump & pressure hold/ release
- Compensated flow valve for controlled release
- Optional reservoir 150, 200, 400 or 600cc capacity
- Sturdy aluminium alloy/ plated steel construction
- Durable & hard wearing hydraulic components
- User serviceable hydraulic seals & seats
- Mineral oil operation to 130 bar/1900 psi.
- Side face mounting, horizontal operation
- Optional integral overload pressure relief valve
- Established British design and manufacture
- Factory support for application and use

INSTALLATION & MAINTENANCE

APPLICATION

The MK hydraulic foot pump is ideally suited for applications requiring a dependable and robust pumping solution with an extended service life. Configure the unit to your exact requirement with a pedal, reservoir, relief valve or even a foot plate for floor use. The unit without a reservoir requires a remote oil supply. The adjustable pressure relief valve provides overload protection for the pump.

The pressure compensated flow control valve provides a controlled descent and is an essential safety feature on lifting equipment.

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.

MATERIALS

Aluminium alloy pump body, end housing and reservoir, fabricated stainless steel/ high tensile steel pedal mechanism, plated steel end plate; other materials include polymers and seal components.

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

The foot pump is designed for side mounting onto the right hand face. Ensure that mounting surface is flat and can withstand pump foot pedal operating force. The body has two through holes for mounting. These mounting holes must not be drilled out or otherwise modified in any way.

INSTALLATION continued

Mount the pump on a suitable fixing plate and secure with 2 x M8 fixings, minimum length 65mm (not supplied).

Mounting orientation is horizontal only; reservoir on top face.

CONNECTIONS

Make pressure connection to G1/4 coned outlet fitting on end of pump body with correct hose or tube fitting. On units without a reservoir make tank connection to G3/8 female port on end of pump body using suitable adaptor & sealing washer. This tank port is otherwise plugged when a reservoir is fitted..

COMMISSIONING

Units with reservoir: the reservoir may be filled by unscrewing the socket filler plug on the top of the reservoir and topping up to desired level with clean fluid; do not over fill. The dipstick gives required air gap for the unit to function. Always refit plug after top up. Operate the pump by pushing foot down on pedal to end stop. Allow foot pedal to return to rest position before depressing pedal again; continue pump action to bleed system of air as required then operate pump to achieve maximum required pressure. Check for leaks in the system.

To release pressure, use foot to lift pedal slightly; the system pressure will release through a pressure compensated speed control valve back to tank.

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

MAINTENANCE

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

The inlet and outlet strainers are easily accessible for cleaning. The inlet and outlet check valves are also serviceable. 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

Operation: single acting, pump on down stroke

Displacement per stroke: 3.2cc

Max. operating pressure: 130 bar

Max. flow: 130cc/min (typical)

Foot load: 250N @ 130 bar on 300mm pedal

Compatibility: hydraulic mineral oil

Ambient operating temperature range: -20 to 40°C

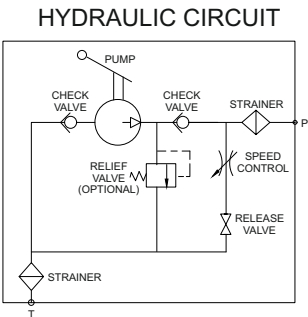
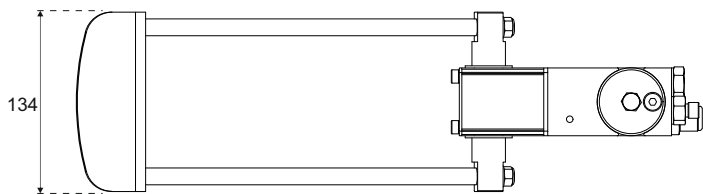
Media operating temperature range: -30 to 80°C

Weight: 3.5kg less reservoir

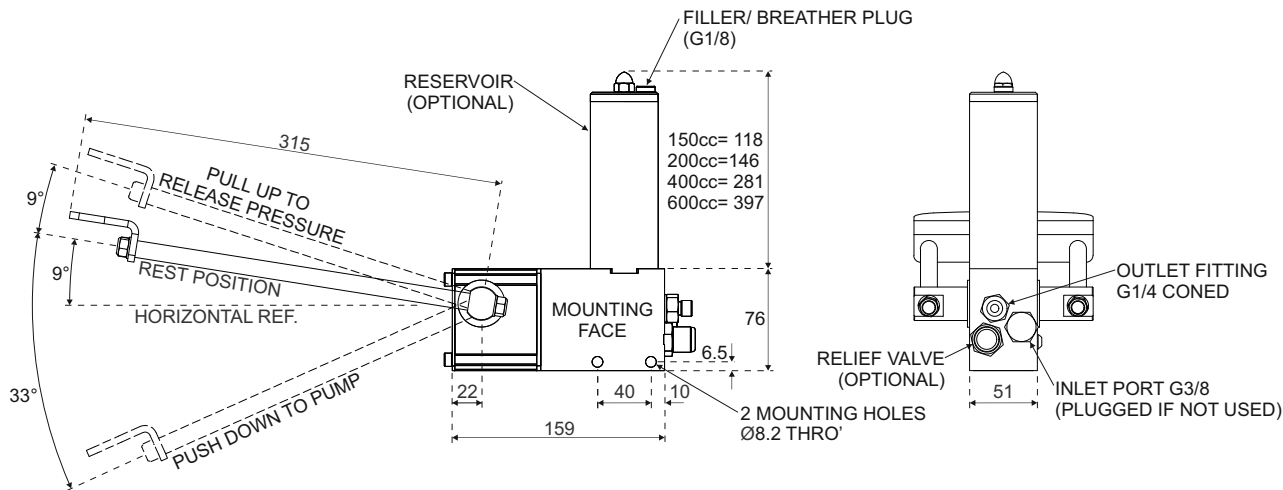
Dimensions: see drawing

DIMENSIONS

DIMENSIONS IN mm



FOR FURTHER DETAIL, SEE INSTALLATION DRAWING:
CONTACT FACTORY OR DOWNLOAD FROM WEBSITE



ORDERING CODES

Model

MK Micropac® Foot Pump

Pedal included

N None

3 300mm long pedal assembly

Integral reservoir (nominal capacity)

N None (auxiliary tank connection only)

1 150cc reservoir (SHL464)

2 200cc reservoir (SHL472)

4 400cc reservoir (SHL342)

6 600cc reservoir (SHL287)

Relief Valve

O Not fitted

R Fitted

Base plate mount

O Not fitted

P Fitted

MK

-

-

-

-



SARUM
HYDRAULICS
Designers & Manufacturers of Micropac® Hydraulics

Unit Conversions
Bar to psi - multiply bar by 14.504
Litres to US Gallons - divide litres by 3.785
cc to cu. in. - divide cc by 16.387