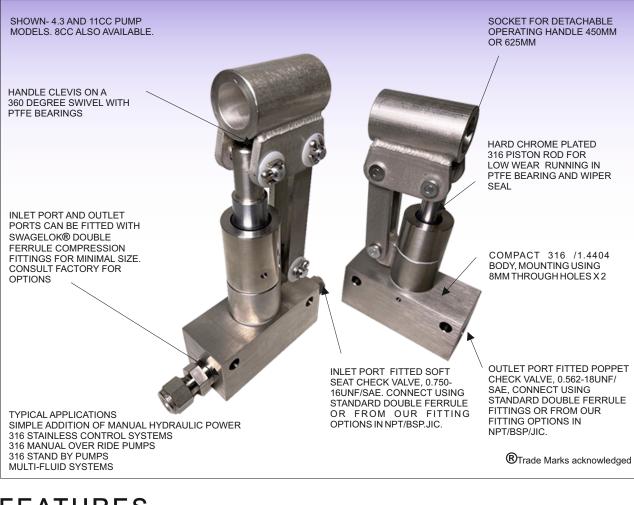
## 316 System Builder



# **MICROPAC** PPS Hand pump 100% 316 Stainless & polymer. To 400 bar. Small envelope & cost-effective.



### FEATURES

- 100% 316 Stainless and polymer at low cost
- Small space envelope. Pipe into your system
- 3 models, 4.3cc/400 bar, 8cc/200 bar, 11cc/125 bar
- 450mm or 625mm detachable handle
- 360 degree swivel allows easy operation
- NPT, JIC, double ferrule & BSP adaptors available
- Cost effective 316 manual power for designers
- No inlet strainer fitted
- Temperature range +80 to -30 degrees C
- Low temperature seals available to -50 degrees C
- Connect using standard "Swagelok®" fittings

- Suitable for water, oil and other operating media
- Fit relief valve and release valve externally
- Easily serviced using low cost service kits
- All material EU or US.
- ISO9001 Design and Manufacture
- Use in any orientation
- Quality British manufacture 1 year warranty
- Factory support for product and application
- Single material for minimal galvanic corrosion
- Hard chrome plated 316 stainless piston rod
- Rugged design

### 316 System Builder



### **APPLICATION, INSTALLATION & MAINTENANCE**

#### **APPLICATION**

The unit is suitable for any application requiring manual generation of hydraulic power e.g. operating hydraulic cylinders or actuators, piloting valves, charging accumulators or hydrostatic testing. This component pump is a 100% 316 stainless and polymer unit offering a very small space envelope, wide flexibility on connections and would typically be optimum performance. Note that we do not specified by 316 system designers. Use of a single grade of stainless steel will provide minimal galvanic pipe on the inlet. corrosion risk. It is a single acting unit generating pressure on the down stroke only and is simply fitted The pump should be operated after installation to with inlet and outlet check valves. A designer would fit a hold/release valve, a relief valve, an inlet strainer or a four way directional valve elsewhere in the system. Note that we can offer alternative ranges MAINTENANCE of pump with an integral release and relief valve but The inlet and outlet check valves are easily not in the single grade of stainless that some users require for specialist applications. Our MW range uses 316 stainless and bronze plus small amounts of 302/303/304/420/431. We would be pleased to discuss your precise pump requirements for your application.

#### **MOUNTING AND CONNECTION**

DIMENSIONS

Suitable for bolting to a side plate using two M8 screws. The inlet is 0.750-16UNF/SAE female and the outlet 0.562-18UNF/SAE female industry standard ports. There are no other connections. Fit double ferrule compression fittings from

"Swagelok®" or other ranges. Or specify our hexagon fittings to provide NPT female, BSP female or other configurations. Consult the factory if in doubt. Ensure that the required cleanliness is maintained.

The mounting orientation is universal. Sealing is by nitrile rubber o rings. Other materials such as fluorocarbon or ethylene propylene are available to order.

### **MOUNTING AND CONNECTIONS (continued)**

An inlet strainer should be fitted upstream of the inlet of the pump, as with any hand pump. The handle mechanism rotates 360° on the body to allow fitting in restricted space envelopes. As with any hand pump, the inlet line back to tank should be kept as short and unconstricted as possible for recommend the use of 6.35 or 6mm (or smaller)

#### COMMISSIONING

leak test and bleed the hydraulic circuit. Failure to do so will result in reduced pump displacement and a spongy action.

serviced. Seals are replaced using standard tools. Service kits are available. The valve components should all be protected from dirt during maintenance.

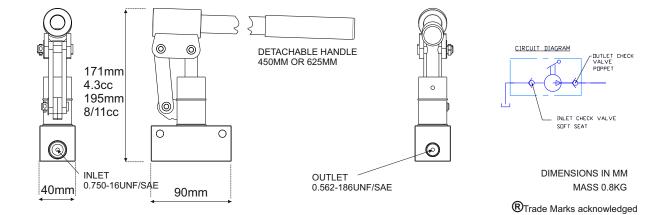
#### MATERIALS OF CONSTRUCTION

Seals: PTFE, PU and nitrile. Optional alternative compounds are available including low temperature compounds and EPDM for "skydrol."

100% 316 stainless and polymer for wetted and external parts. All EU or US stainless steel. Piston rod and pivot pins are hard chrome plated.

#### SAFETY

This pump is a component forming part of a hydraulic pressure system. The system should be designed, operated and maintained in accordance with statutory requirements and other relevant instructions.



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### **316 System Builder**

ORDER CODE FOR MICROPAC® PPS 100% 316 stainless and polymer Hand Pump.



Model			
	Displacement and may	imum prossuro. All single s	acting on down stroke only
	43 4.3cc /400 bar	80 8cc /190 bar	11 11cc/125 bar
	Handle		
	0 No ha		
	4 450m 6 625m		
	0 02311		
	Seal material		
	N	Nitrile, PU	
	V	Viton Fluorocarbon,PU	
		Test fluid	
		W Water O Oil	
		S Special	
		Inlet Fitting	
		<u>_</u>	0.750-16UNF/SAE female
		17 3/8NPT fem	nale hexagon adaptor
			nale hexagon adaptor
			list double ferrule tube fittings
			10, 12mm. Don't use 6.35mm on inlet JIC male, other BSP male and female
		Outlet Fit	Iting
			se Unit- 0.562-18UNF/SAE female
			NPT female hexagon adaptor
			BSP female hexagon adaptor
			BSP male coned hexagon adaptor
			agelok® list double ferrule tube fittings 5, 9.52, 12.7, 6, 10, 12mm.
			juire on JIC male, other BSP male and femal
PISI			<b>®</b> Trade Marks acknowledged

**CE marking:** this product is classified under 'Sound Engineering Practice' of the Pressure Equipment Directive (PED) 2014/68/EU. As such, it does not carry the CE marking.

Sarum Hydraulics are an ISO 9001:2015 registered company with over 35 years experience in design and manufacture of hydraulic equipment. Call us, email us or visit our website to find out more about our extensive product range. Enquiries are welcomed for bespoke solutions.

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