

HYDRAULIC PUMP UNIT

- **Produces pressures up to 2312 bar**
- **Cost-effective**
- **Fully automatic**
- **Safe, simple, efficient operation**
- **Robust design**
- **Automatic shut-off at operating pressure**
- **Different pressure ranges available**
- **Can be used in hazardous areas**



This hydraulic pumpunit is a simple and efficient tool to produce hydraulic pressures up to 2312 bar using low pressure air. Typical applications are pressure testing of hoses, pipes, valves etc., delivering high pressure liquids required by production machinery for holding, clamping, forming, punching etc. The pumpunit services oil, water and most corrosive chemicals. The unit can be used in hazardous or confined areas.

Operation

The hydraulic pumpunit converts air inlet pressure to hydraulic output pressure. The pump uses low pressure air to act on a large area piston to produce high hydraulic pressure with a small piston area. In operation the pump reciprocates rapidly until the system liquid pressure equals or balances the air pressure. This liquid-air pressure balance is maintained indefinitely in a holding condition with minimal energy consumption and with no increase in fluid temperature or parts movement.

The liquid output pressure is determined by the ratio between the area of the air driven piston, the area of the liquid driven piston and the applied operating air pressure. This hydraulic pump is a complete unit, ready for operation and comes complete with: Input pressure gauge, Output pressure gauge and Muffler.

TECHNICAL SPECIFICATIONS

Modelnumbers:

Configuration 1	Configuration 2	Configuration 3	Configuration 4	Ratio	Max. Hydraulic Output Pressure
Ordering Code	Ordering Code	Ordering Code	Ordering Code		
S441J10	S442J10	S443J10	S444J10	1:10	69 bar
S441J20	S442J20	S443J20	S444J20	1:20	128 bar
S441J30	S442J30	S443J30	S444J30	1:30	214 bar
S441J35	S442J35	S443J35	S444J35	1:35	317 bar
S441J60	S442J60	S443J60	S444J60	1:60	421 bar
S441J100	S442J100	S443J100	S444J100	1:100	607 bar
S441J150	S442J150	S443J150	S444J150	1:150	1104 bar
S441J200	S442J200	S443J200	S444J200	1:200	1639 bar
S441J300	S442J300	S443J300	S444J300	1:300	2312 bar

Configurations:

1. No resevoir, installed on base plate.
2. No resevoir, installed in frame.
3. 12 liter resevoir, pump unit mounted on top of resevoir.
4. 30 liter resevoir, pump unit mounted on top of resevoir.

Dimensions:

- Configuration 1: 300 x 400 x 900 mm (l x w x h)
Weight: approx. 17 kg
- Configuration 2: 570 x 350 x 410 mm (l x w x h)
Weight: approx. 20 kg
- Configuration 3: 250 x 300 x 600 mm (l x w x h)
Weight: approx. 22 kg
(with empty resevoir)
- Configuration 4: 500 x 340 x 650 mm (l x w x h)
Weight: 26 kg
(with empty resevoir)

Supply Pressure:

Maximum 7 bar air
Minimum 0.5 bar air

Connections:

Air Pressure input: 1/2" NPT female
Hydraulic output: 1/4" NPT female

Options:

Contamination-free operations; please specify

SPECIAL DESIGNS ON REQUEST

Distributor: