

General Description

Series 913 hand pumps are single-acting providing primary, backup, or emergency hydraulic power. The hand pumps can be utilized anywhere; at any time, that hydraulic power is required, since the hand pump does not require an electrical or mechanical power source. Series 913 hand pumps have two stages. The first stage allows a large volume to be pumped so that a cylinder or actuator quickly moves into its working position. At the second stage, the hand pump sequences to a lower volume at higher pressures.

Features

- When first stage reaches 0.7 Bar (10 PSI) maximum, pump automatically sequences to a lower volume at pressures up to 345 Bar (5000 PSI).

Operation

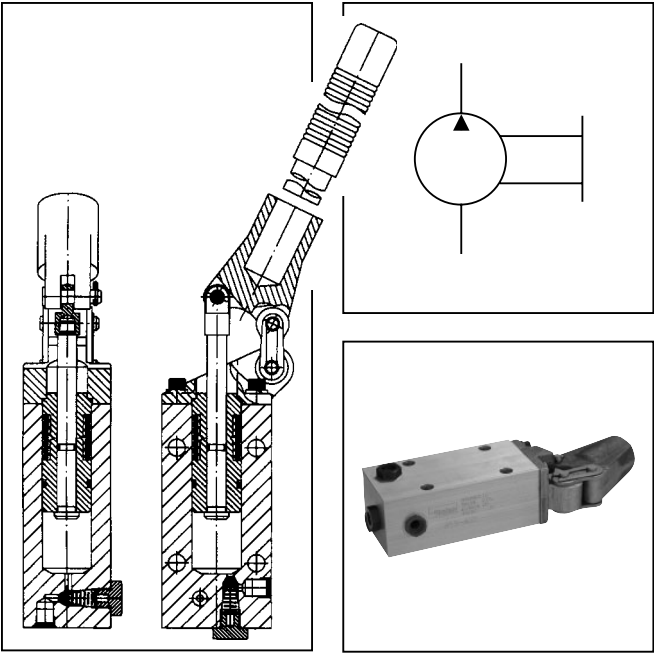
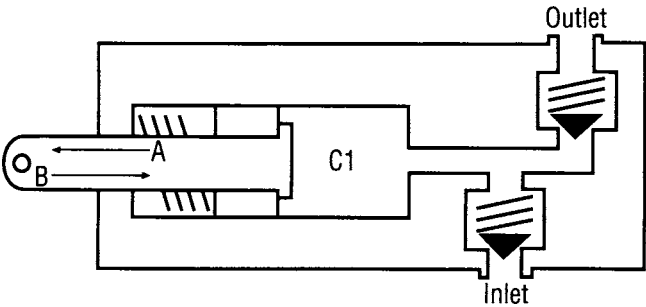
Piston Stroke — Direction A

Piston draws in fluid through INLET, charging chamber C1.

Piston Stroke — Direction B

Stage 1 (to 10 PSI): Volume C1 discharged through OUTLET.

Stage 2 (over 20 PSI): Build up of pressure in system causes piston to remain in retracted position (shown), and plunger moves forward, discharging low volume through OUTLET at high pressure. Piston remains in retracted position on next A stroke.



Specifications

Service App.	Hydraulic oil	
Pressure Range	Working: 0 - 345 Bar (0 - 5000 PSI) [345 Bar (5000 PSI) based on 50 lb. handle load at 23 in.]	
Sizes	IST	4
Ports	IST	Internal straight threads
Type	Single-acting	
Mounting	Holes (4) through, 9.9 mm (0.390 in.) dia.	
Displacement	16.4 cc - 0.7 Bar (1 cu. in. - 10 PSI) 3.1 cc - 345 Bar (0.19 cu. in. - 5000 PSI)	
Material	Body	Aluminum alloy
	Piston, Plunger	416 Stainless steel
	Springs	Stainless steel
	O-rings	Synthetic rubber
	Back-up rings	PTFE
Operating Arc	55°	
Handle	Not furnished. Available on special order	
Temperature Range	-40°C to +121°C (-40°F to +250°F)	

Ordering Information

913	-4	D	2
Catalog Number	Size and Type Ports	Materials	O-Ring Code
913 2-Stage Hand Pump	4 IST	D Aluminum Alloy	2 Nitrile
	04 SAE		

Weight: 1.6 kg (3.5 lbs.)

Dimensions

Dimensions are shown in inches.

