

Self-Priming Adaptor (SPA)

Provides Fast Self-Priming for Closed Impeller Centrifugal Pumps



Patent Pending

1530-0024S 2" NPT Self-Priming Adaptor
1530-0025S 1-1/2" BSP Self-Priming Adaptor

FEATURES AND BENEFITS

- Creates self-priming capability for all standard centrifugal pump models
- Increases priming efficiency over open impeller transfer pumps and self-priming centrifugal pumps
- Allows the use of a single high efficiency pump for both tank filling and spraying
 - Fills a 6000 litre tank in eight minutes
- Constructed out of 304 stainless steel for corrosion resistance
- Protects the pump's mechanical seal from dry-run during priming operations for on-board loading
- Guards against unexpected dry-run conditions during spraying application, if system were to function automatically
- Allows centrifugal pumps to be mounted in tight-fitting configurations while maintaining priming and flow performance capabilities
 - SPA can be mounted in nearby remote location up to 3 meters (10 feet) from pump
- Simple to plumb, operate and easy to maintain
- Mounting kit also available (part no. 3430-0700)

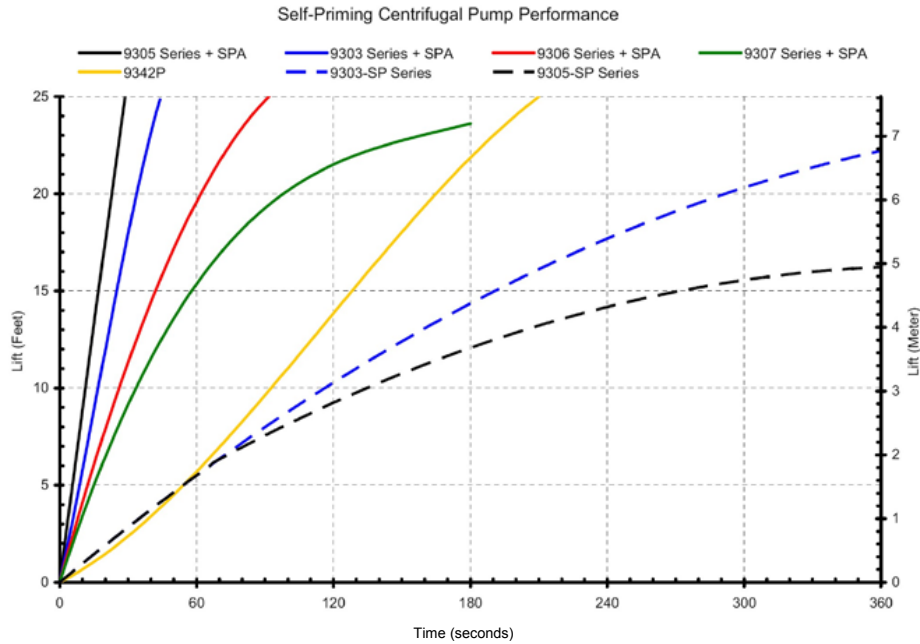
Hypro's Self-Priming Adaptor provides fast self-priming of closed impeller centrifugal pumps, reducing fill time while protecting the mechanical seal



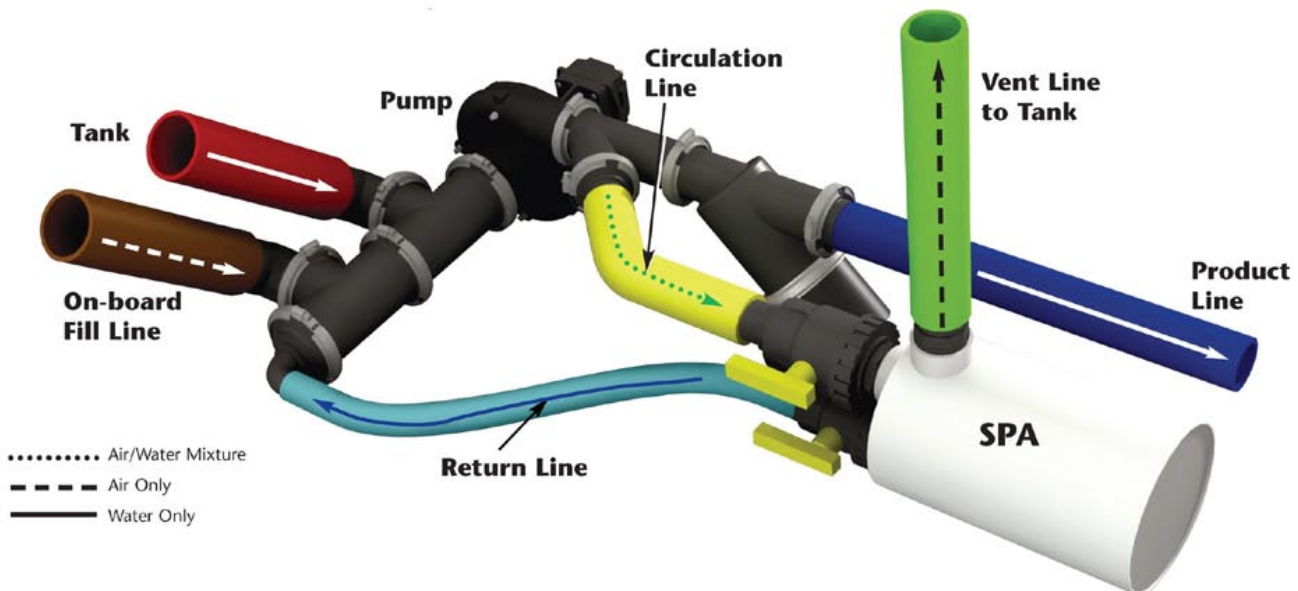
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Performance Information and System Configuration



Self-Priming Adaptor Configuration



How the Self-Priming Adaptor Works

To facilitate pump priming, the SPA is activated by opening 2 ball valves, circulating water through the SPA and the eye of the pump impeller.

The pump begins to draw from the fill line. The SPA separates air from liquid as it is drawn, releasing air to the atmosphere through the vent line. Only liquid returns to the pump inlet, so that air is gradually eliminated from the fill line facilitating pump priming.

Once all air is eliminated, circulation to the SPA flow is stopped by closing the two ball valves, diverting flow to the tank.

When mounting, the lower (outlet) port of the SPA should be in line with the pump inlet, keeping the return line horizontal.