

Float Assembly

Replacement Mechanism

Applications

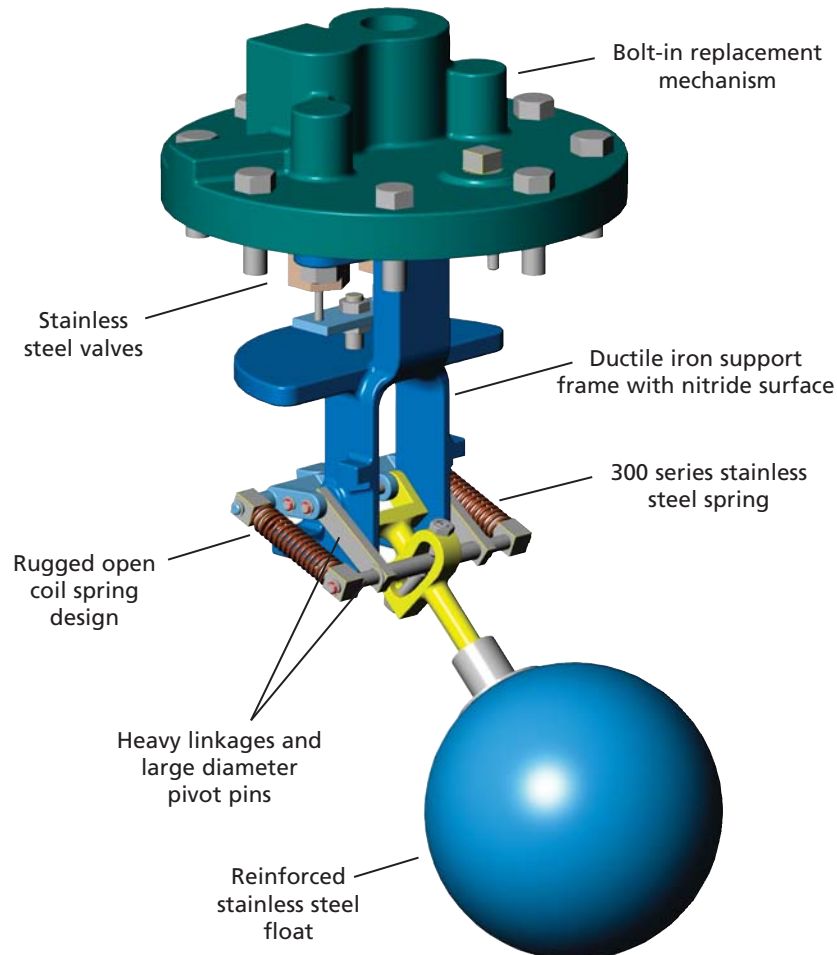
The replacement float mechanism from Kadant Johnson is a reliable and cost-effective solution for low-maintenance pressure powered pumps and pumping traps. Designed to retrofit major float-operated pump brands, the replacement mechanism features a bolt-in mounting flange that incorporates an open-coil spring design, a reinforced float, and heavy-duty, high-cycle components.

Features

- ▶ Stainless steel float mechanism
- ▶ Designed to retrofit competitive pumps
- ▶ Exhaustive product testing and evaluation
- ▶ Reduced maintenance requirements

Benefits

- ▶ Wear and corrosion resistant
- ▶ Fast and easy upgrade
- ▶ Trouble-free, proven technology
- ▶ Lower total operating costs



FLOAT ASSEMBLY

Fast and easy installation

Installing the Kadant Johnson float assembly in your existing tank is easy because the Kadant Johnson assembly fits in the existing space envelope and matches the existing piping arrangement.

Easy and inexpensive repair

The Kadant Johnson mechanism is easy to repair. Individual parts may be ordered separately or ordered as part of standard repair kits.

Reinforced float

The weakest area of conventional floats is where the float arm attaches to the ball. The Kadant Johnson float ball has a thicker wall in this area to provide additional support.

Open coil design

The Kadant Johnson float assembly also has open coil springs in its mechanism. With the open coil design, active coils can not touch. This prevents the active coils from hammering into each other and flattening, which could weaken the springs to the point of breakage. The open coils also prevent deposits from being trapped between the active coils, which could cause etching and breakage of the coils.



Kadant Johnson Open Coil Springs



Conventional Closed Coil Springs

Kadant Johnson replacement pumping trap float assembly

Designed in accordance with AMSE Section VIII, Division 1, Boiler and Pressure Code. Fits Sarco PPC and PPF, Spence, Nicholson, MEPCO, Dunham, Clark Reliance, Armstrong, ITT, and Watson McDaniel.

Pump Supplier	Spirax, Sarco PPC and PPF	ITT, Hoffman PCC 1, PCC 1.5, PCC 2, PCC 3	ITT Hoffman PCC 4 and 6 PCS 8	Armstrong PT-300, PT-400, PT-3500 Series	MEPCO Dunham Bush Yarway	Spence Nicholson	Watson McDaniel PMPC
Kadant Johnson Part No.	SA3V-1000-11	SA3V-1000-11	SA3V-1000-15	SA3V-900-1	SA3V-1000-11	SA3V-1000-11	SA3V-1000-20

Installation considerations

- ▶ Adjust motive pressure 15 – 20 psi higher than static back pressure for longer service life.
- ▶ High quality inlet and outlet check valves should be used for best results.
- ▶ Kadant Johnson float assemblies operate with either steam or compressed air as the motive pumping force.
- ▶ A high quality check valve should be used between the motive pressure reducing valve and float assembly.
- ▶ Install a drip trap on the motive line when using steam as the motive force.



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Float Assembly-1003 08/2007
replaces Float Assembly-1002
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