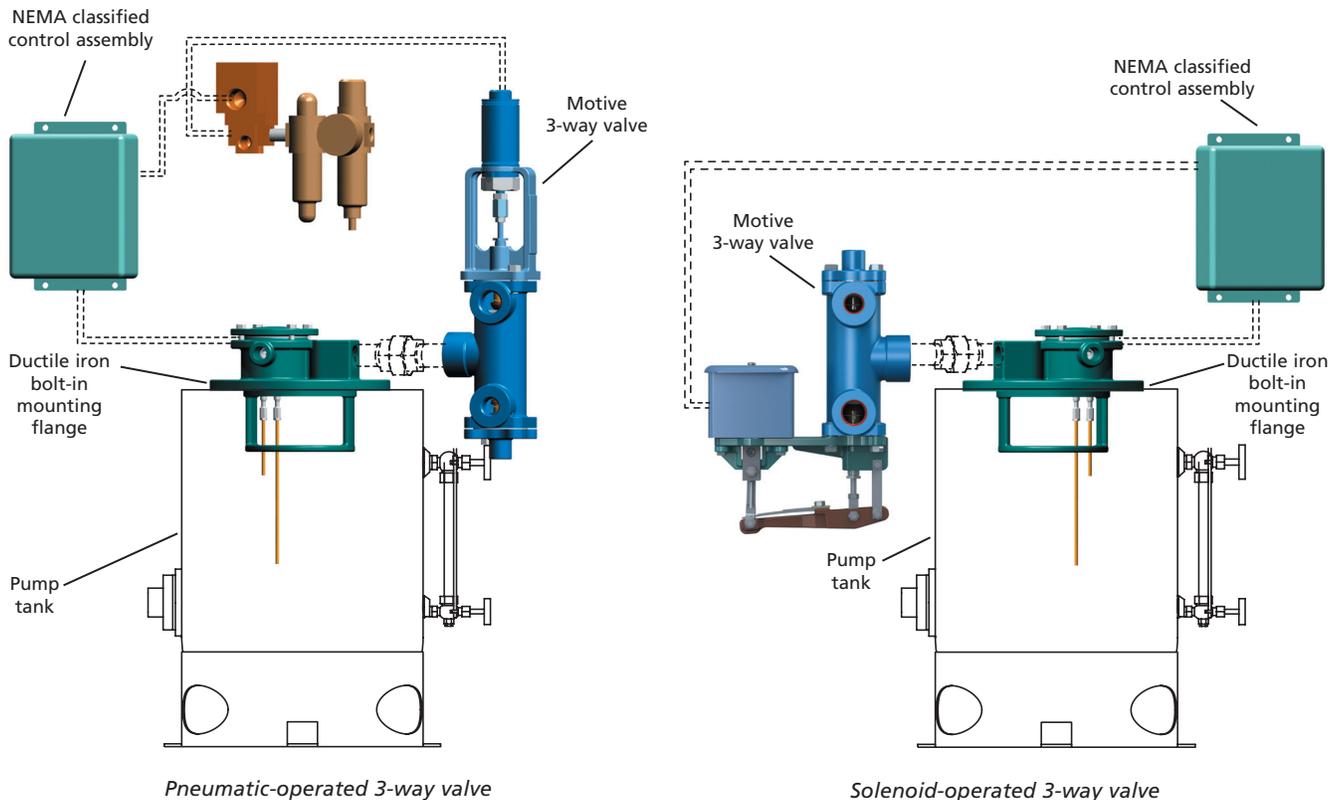


Float Free™ Replacement Level Control

Replacement Mechanism

The replacement float free level control assembly from Kadant Johnson is a reliable and cost effective solution for high maintenance pressure powered pumps. Designed to retrofit major float operated pump brands. The float free assembly features a bolt-on mounting flange that incorporates a 2-probe level control, an externally mounted 3-way motive valve, and a NEMA classified control assembly.



Pneumatic-operated 3-way valve

Solenoid-operated 3-way valve

Features



- Designed to retrofit competitive pumps
- Reduced maintenance requirements
- No springs or floats
- More than 70 years of proven performance
- Remote monitoring capabilities

Benefits



- Virtually no moving parts to wear
- No moving parts in the condensate
- Fast and easy upgrade
- Trouble-free, proven technology
- Low total operating costs

Fast and Easy Installation

Installing the Kadant Johnson float free assembly is easy because the assembly mounts directly into the existing competitor's pump tank. The drop-in float mechanisms are designed for most float operated pump brands.

Easy and Inexpensive

The Kadant Johnson float free assembly is easy to troubleshoot and repair. The motive pressure 3-way valve is external to the tank for quick visual checking of the operation and easily repairable or replaceable when required. Individual parts may be ordered separately or as a complete assembly.

Motive Valve

The 3-way valve body is cast ductile iron rated for 250 psig with stainless steel plugs and seats for long service life. The motive valve can be either pneumatic or solenoid operated.

Float Free Level Control

The Kadant Johnson float free level control has no moving parts in contact with the condensate. There are no springs or float mechanism to fail due to high pump cycle rates, hammering of the active coil springs, or high chloride levels in the condensate and no float to collapse or fail.

Pump Supplier	Spirax Sarco PTC, PTF, PPC Series	Spirax Sarco PPF P	Spence Commander Classic	MEPCO, Dunham, Bush, Yarway	ITT Hoffman PCC-1, PCC-1.5, PCC-2, PCC-3, PPC-4, PPC-6	Watson McDaniel PMPC	Armstrong PT-300, PT-400, PT-3500 Series	Armstrong PT-516
Kadant Johnson Pneumatic NEMA 4 Part ID No.	19L71048	19L71903	CF	CF	19L71048	19L71056	19L71068	CF
Kadant Johnson Solenoid NEMA 1 Part ID No.	19L71042	CF	CF	CF	19L71042	19L71069	19L71089	CF

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 free level controls 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 the 3-way valve.
- Install a drip trap on the motive line when using steam as the motive force.

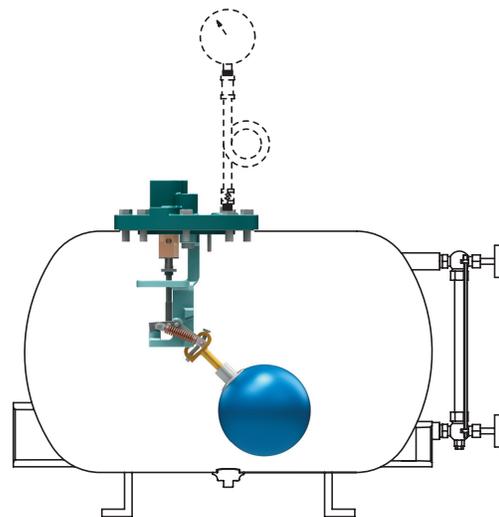
Operating Conditions

PMA (Maximum Allowable Pressure): 150 psig

PMO (Maximum Operating Pressure): 90 psid

Temperature: 365°F

Note: Other pressure and temperature ratings available.



Dimensions are for reference only and subject to change.