

## F93 Series Air Volume Controls for Deep Wells

### Description

The F93 Series Air Volume Controls for Deep Wells control the amount of air in the residential water storage tanks of deep well water systems. Deep wells are more than 25 ft (7.6 m) deep.

F93 Series Controls automatically maintain air volume in the storage tanks of deep well water systems by allowing air to escape from the tank and into the surrounding room when the water level in the tank drops (increase of air volume).

F93 deep well controls open the air valve on a fall in tank water level to bleed excess air from the tank at pressures up to 100 psig (690 kPa).

The F93H has a minimum pressure release valve to avoid lowering tank pressure below 25 psig (172 kPa). Use this model on applications where water may be rapidly drained.

Refer to the *F93 Series Air Volume Controls for Deep Wells Product Bulletin (Part No. 24-7664-3000)* for important product application information.

### Features

- sturdy Noryl (high performance thermoplastic) body resists mechanical damage and corrosion.
- brass internal operating parts minimize corrosion.
- pressure tested plastic float provides long operating life.
- optional pressure gauge tapping allows mounting of a pressure gauge.
- certification for Federal Safe Drinking Water Act (SDWA) meets the US Federal standards of the Reduction of Lead in Drinking Water Act.



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### Application

Water storage tanks in residential water systems rely on a volume of air in the tank to provide system pressure, making it important to control the amount of air in the tank:

- Too little air in the tank results in rapid pump cycling - a problem common in shallow well systems (less than 7.6 m [25 ft] deep).
- Too much air in the tank results in air entering the distribution system — a problem common in deep well systems (more than 7.6 m [25 ft] deep).

### Repair Information

If the F93 Series Air Volume Controls for Deep Wells fails to operate within its specifications, replace the unit. For a replacement F93 Series control, contact the nearest Johnson Controls® representative.

### Selection Chart

Product Code Number	Description
F93A-1C	Air Volume Control for Deep Wells, opens on pressure drop, no gage tap, no pressure release valve
F93B-1C	Air Volume Control for Deep Wells, opens on pressure drop, 1/4-18 PTF SAE short gage tap, no pressure release valve
F93H-1C	Air Volume Control for Deep Wells, opens on pressure drop, 1/4-18 PTF SAE short gage tap, with 25 psig (172 kPa) minimum air pressure release valve. Use this model in applications where water may be rapidly drawn from the system.

### Technical Specifications

F93 Series Air Volume Control for Deep Wells	
Body Material	30% glass-filled Noryl thermoplastic
Float Material	Plastic with brass rod
Maximum Tank Pressure	100 psig (690 kPa)
Shipping Weight	Individual: 0.25 lb (0.11 kg) Bulk pack (30): 30.9 lb (4.08 kg)
Tank Connector Size	1-1/4 in. external NPT
Compliance	United States Federal Safe Drinking Water Act (SDWA) Compliant, Underwriters Laboratories Classified in Accordance with NSF/ANSI 372 (File MH59894)