

# JERGUSON®

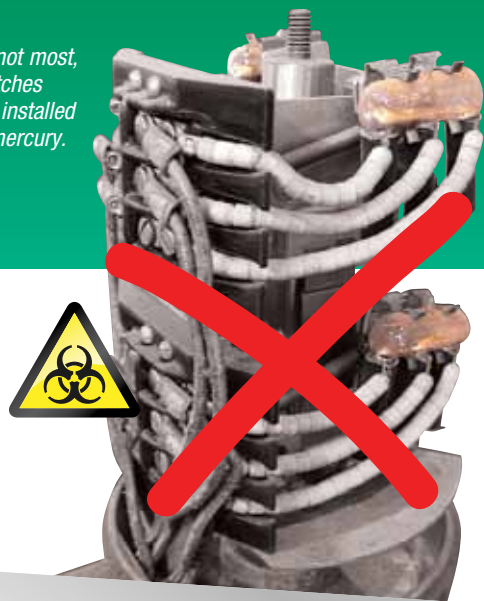
## Mercury Free Level Switches



The World's  
***Most Reliable***  
Level Switch

# It's Time to Get the Mercury Out!

Many, if not most, level switches currently installed contain mercury.



**State Demands Answers to Mercury Spill**

The U.S. Environmental Protection Agency has identified industrial level switches as a major user of mercury.

Mercury is very, very bad stuff: toxic via either ingestion or absorption, it can volatilize at room temperature. When spilled, it doesn't disappear, but can constantly circulate in air, water or soil.

## Union Demands Employee Testing for Mercury Contaminants

The EPA recommends that, wherever feasible, mercury be eliminated. The Jerguson Tri-Magnet Level Switch provides an easy safety upgrade: no mercury and a much more reliable switch.



## What Products Contain Mercury?

**Wiring Devices and Electrical Switches, Including Thermostats**

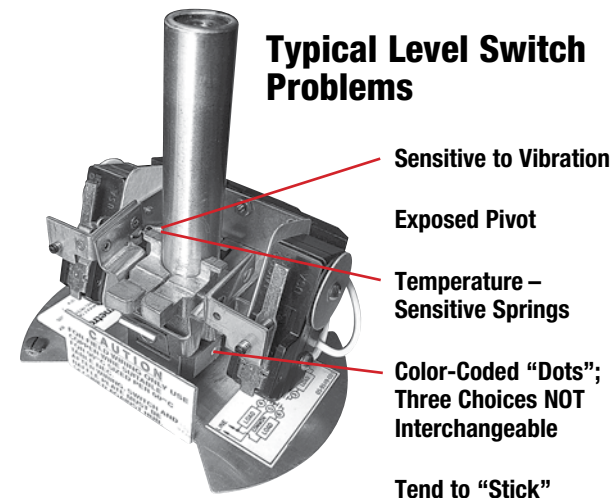
This is currently the largest category of mercury consumption and the **biggest single use of mercury in this category is the mercury relay**. Many mercury containing switches are used in fuel combustion, i.e. coal, oil and natural gas power and heating plants. Examples: Thermostats, light switches, float switches, pressure switches, flow controllers.



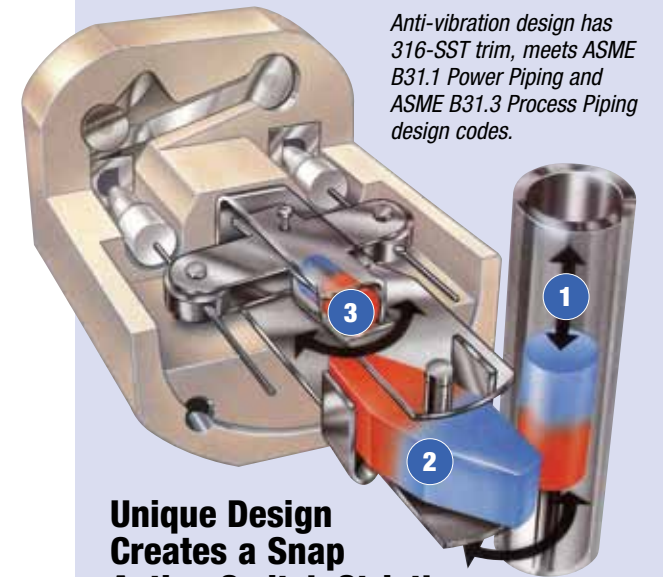
# Jerguson "Snap-Action" Level Switch

Addresses All Mercury Switch Reliability Problems

The heart of the Jerguson Level Switch is its unique Tri-Magnet latching design. Not only is it mercury-free, its positive snap action eliminates the tendency of other switches to stick. There are **no springs to fail**, meaning that you'll also save costs by eliminating frequent spring changes.



## Reliability is a Snap



### Unique Design Creates a Snap Action Switch Strictly Through the Use of Repelling Magnetic Fields

No mercury; no cams or springs; highly vibration-resistant; not temperature sensitive

- 1 Magnet on float rod inside pressure tube drives secondary magnet.
- 2 Secondary magnet drives tertiary magnet, which drives the switch contacts.
- 3 Each magnet repels the other, creating a positive snap action interlocking switch.




## It's Time to Cut Your Costs!

**W**ith no springs to wear out, once you've upgraded to a Tri-Magnet...you're done. No more yearly switch replacements on extreme environment switches, no more rapping on switches to get them to un-stick.

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# Retrofit Without the Hassle of New Piping

## Convert Your Existing Switch Without Removing Chamber



**1** Remove the old housing, switch and pressure tube...

**2** ...remove old attraction sleeve...

**3** ...fit new float tube and permanent magnet to existing float rod...

**4** ...slide Tri-Magnet assembly over magnet / rod and tighten nut.

**5** You're finished! No piping changes needed!

or

## Replace the Switch and the Float Chamber

Replacing everything couldn't be easier. Piping will line-up once the new Jerguson Tri-Magnet Level Switch and Float Chamber are in place. Even extreme misalignment will not stop the Tri-Magnet: its broad installation tolerances compensate for misalignment.



Tri-Magnet level switch and float chamber

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