

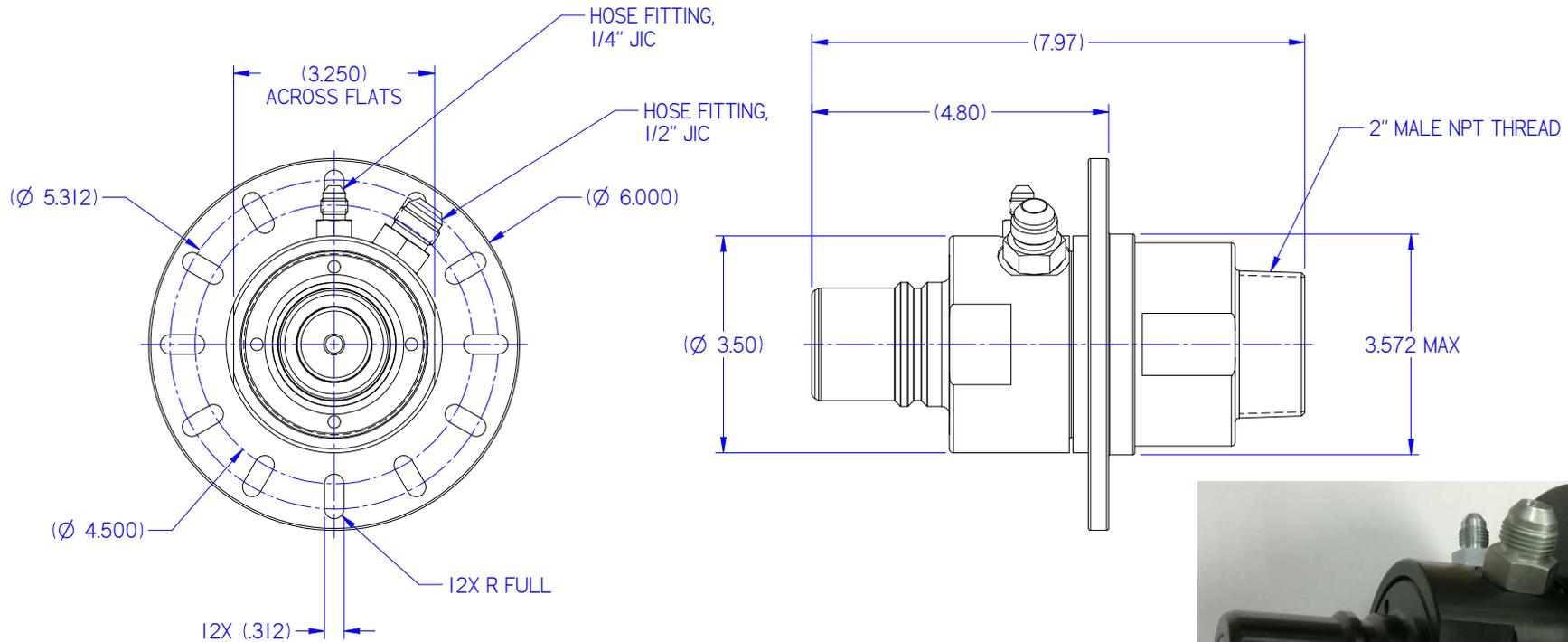
# ***Wiggins*** ***Service Systems***

**JNX Non-Pressurizing  
Fast Fueling System**

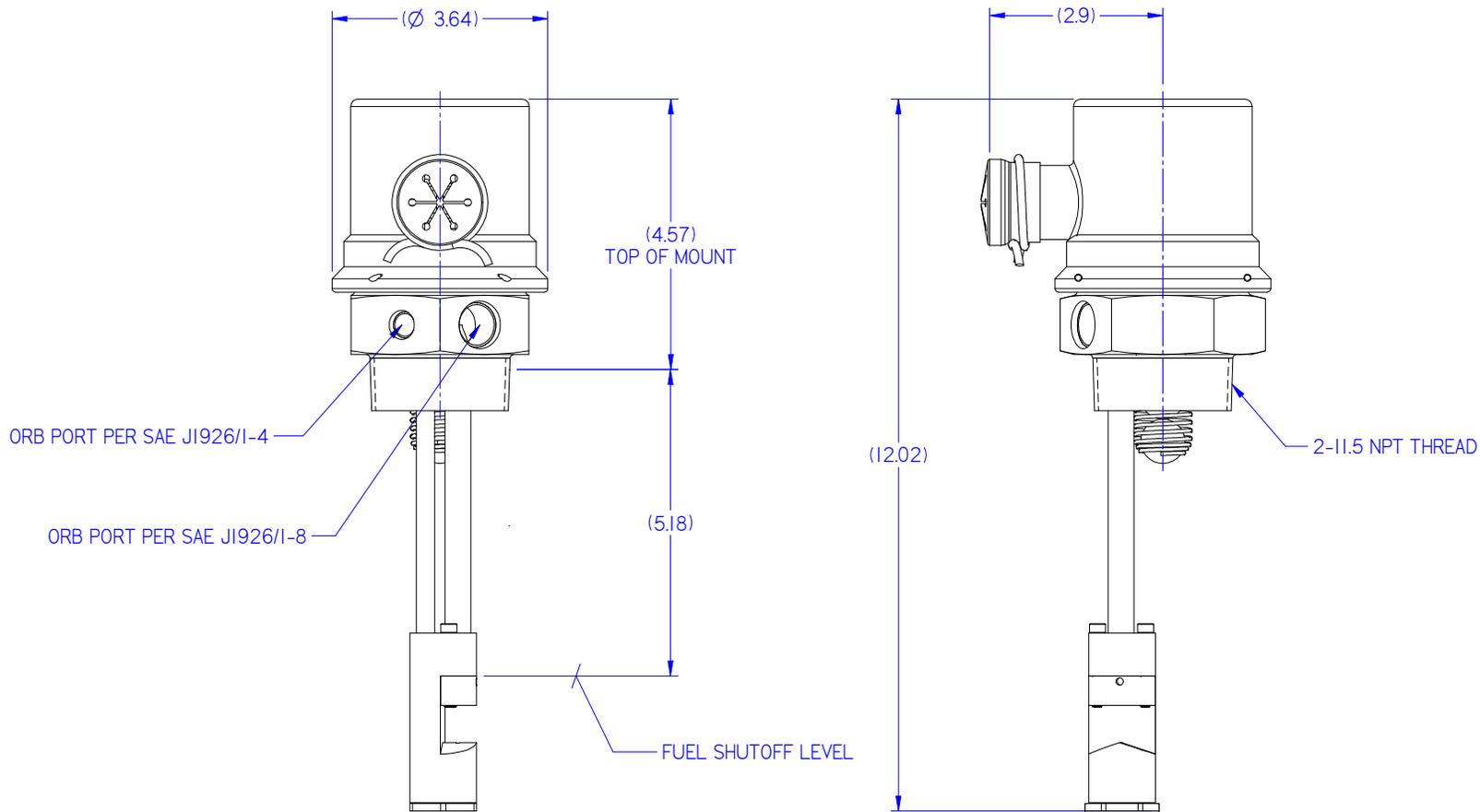
## ❖ Features of JNX system:

- Safe:
  - Does not rely on tank pressure to shut off
  - Dry-break connection minimizes fuel spillage
  - Jet sensor does not have moving parts; it is extremely reliable and does not rely on failure-prone floats
  - System cannot be overridden: overfilling is not possible even if the nozzle is manually forced open. Fueling stops at the right time, every time
  - System is FAIL-SHUT: if either or both hoses are damaged or disconnected, fueling is stopped (unlike other systems that are fail-open)
- Fast:
  - Allows fueling at up to 800 lpm
  - Works with industry standard ZZ9A1 and ZZ9A2 nozzles
  - Easy to install or retrofit

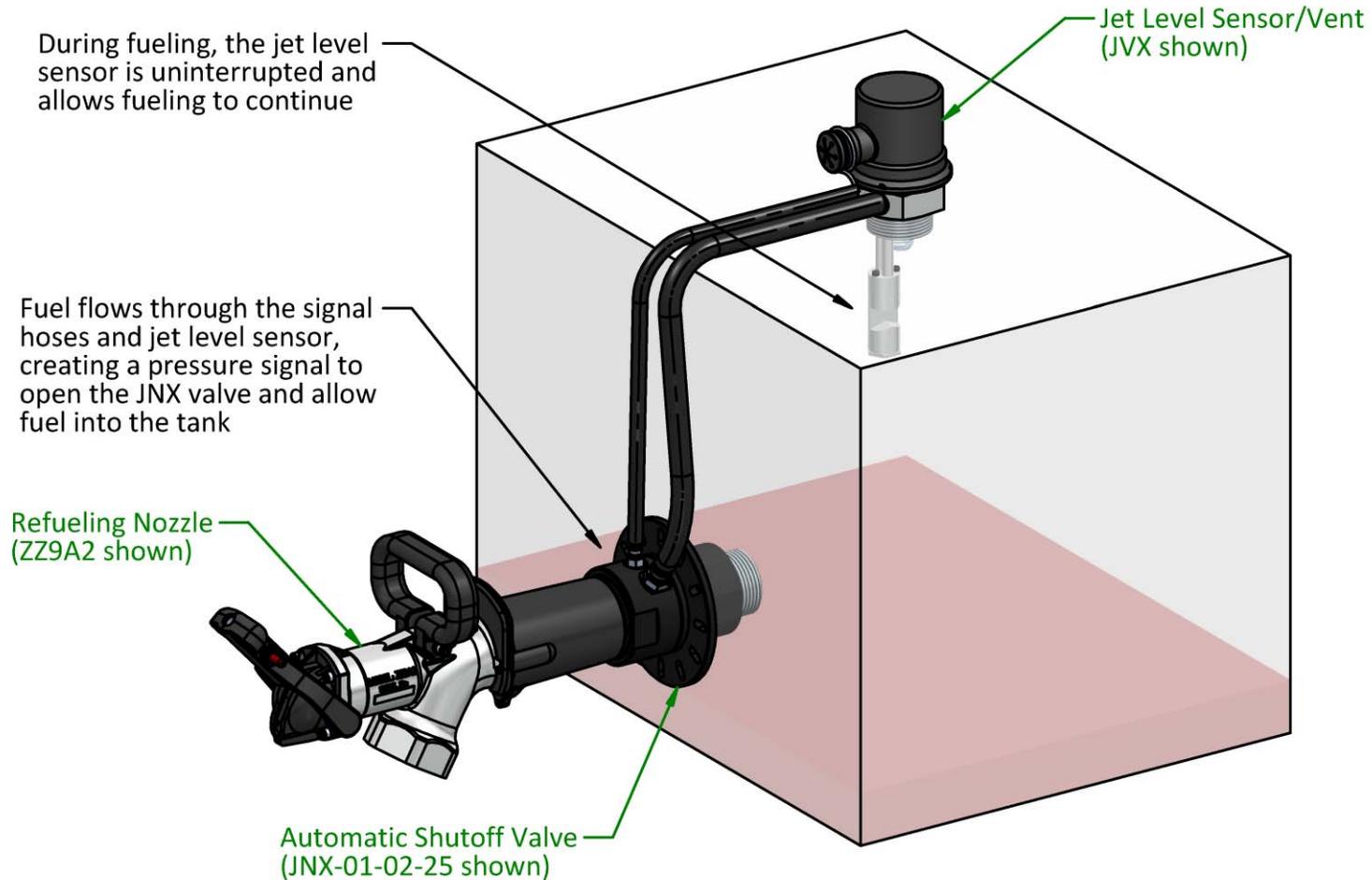
## ❖ JNX Automatic Shutoff Valve (JNX-01-02-25 shown):



## ❖ JVX Jet Sensor/Vent (JVXL shown):



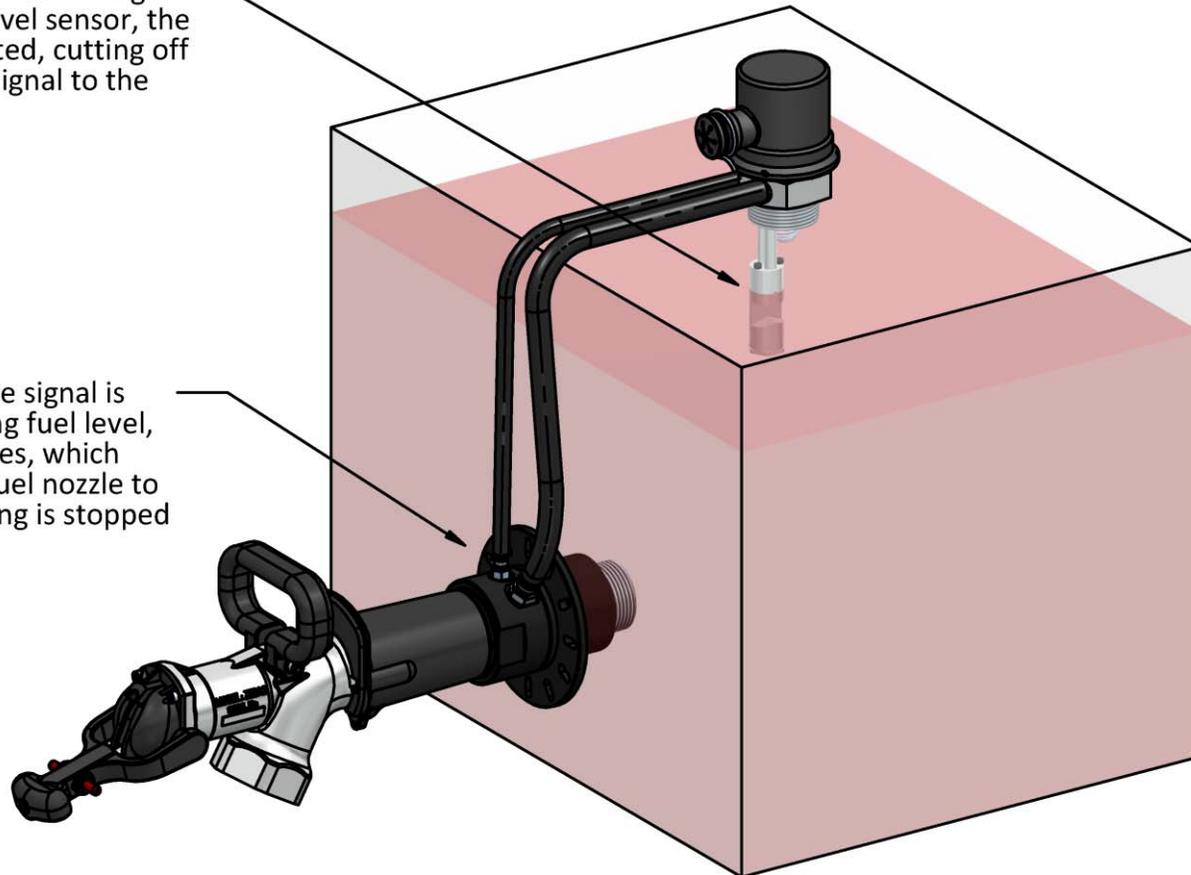
# JNX System: How it Works



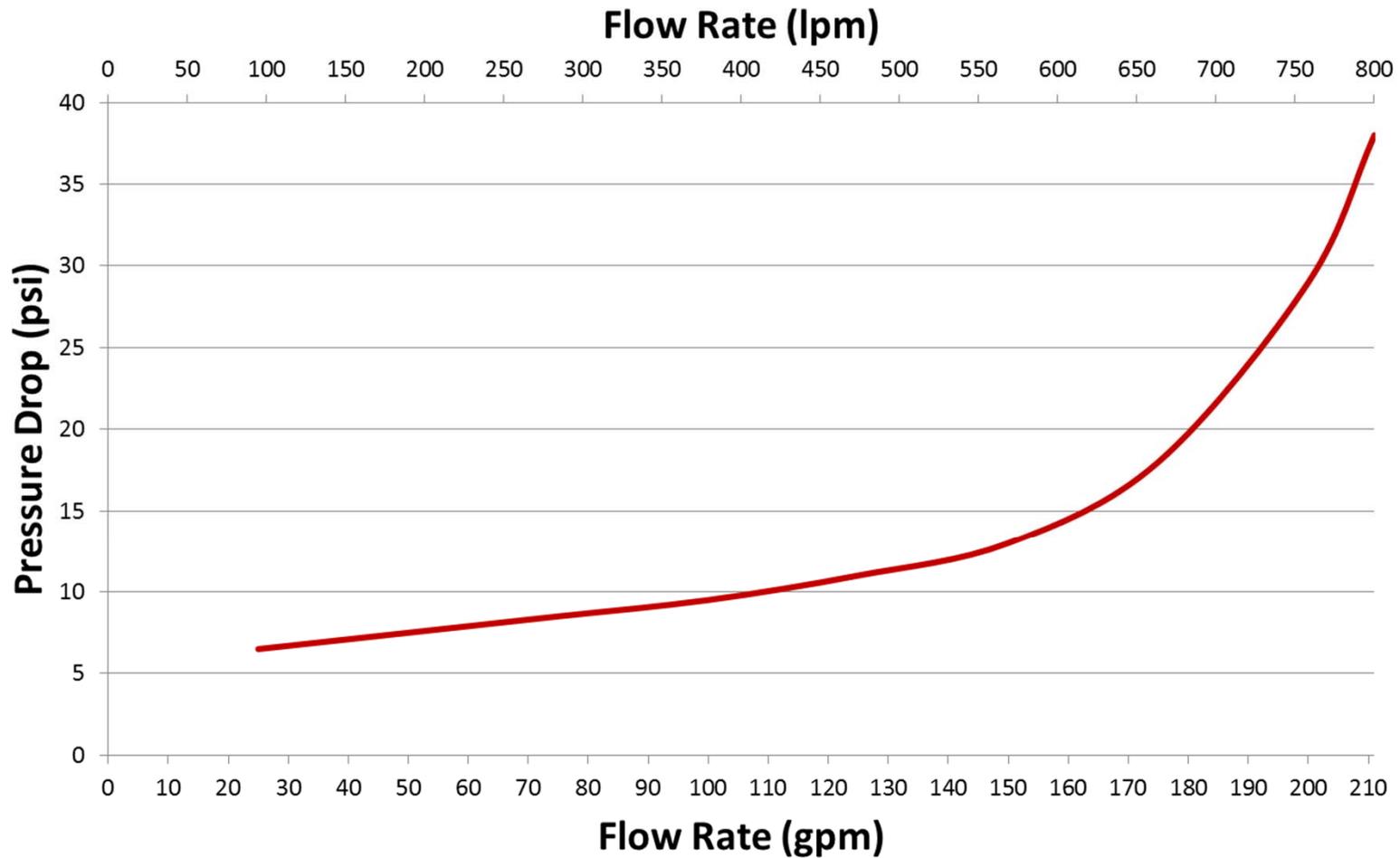
# JNX System: How it Works

When the fuel level is higher than the jet level sensor, the jet is interrupted, cutting off the pressure signal to the JNX valve

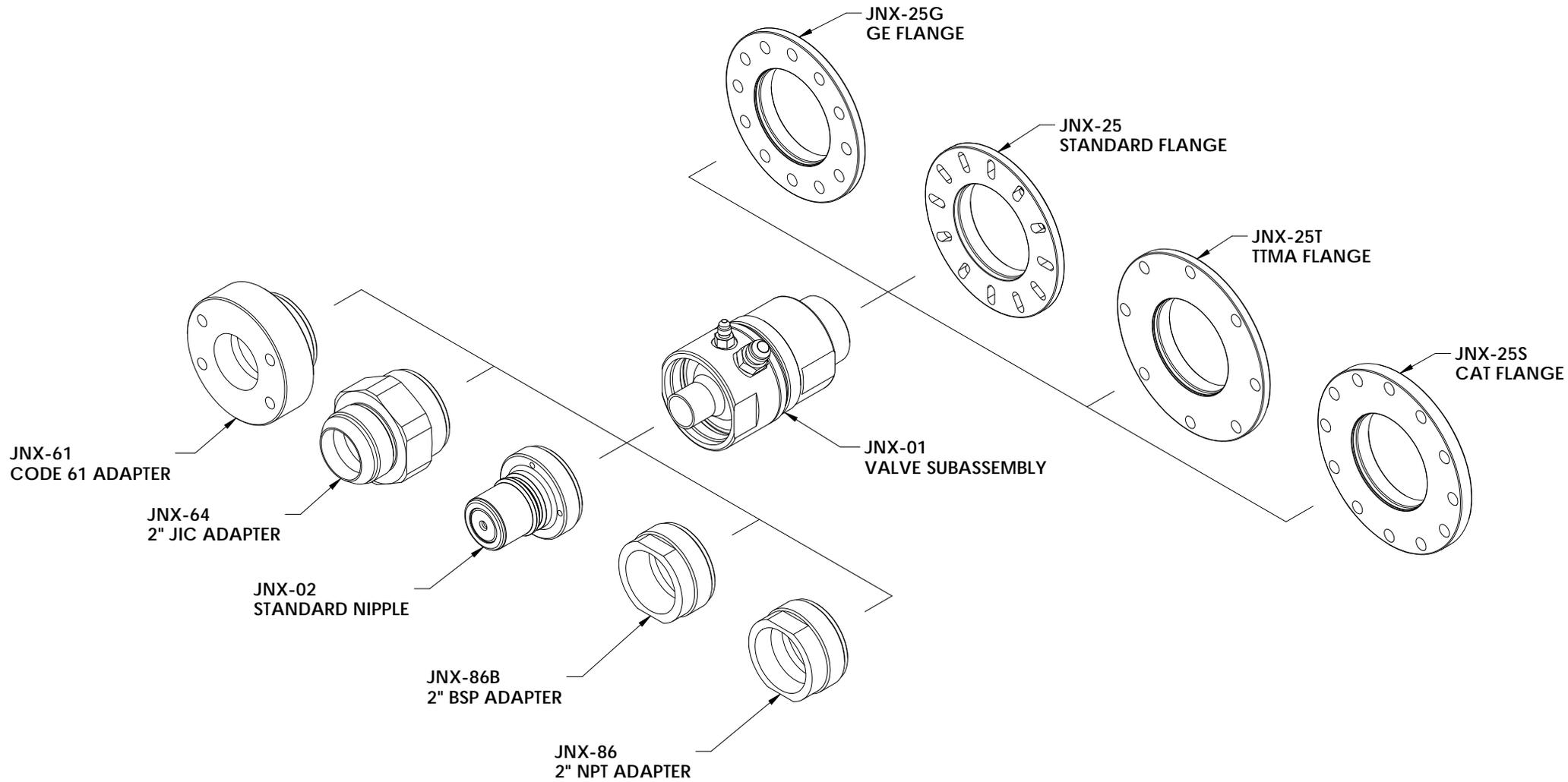
When the pressure signal is cut off by the rising fuel level, the JNX valve closes, which also triggers the fuel nozzle to shut off, and fueling is stopped



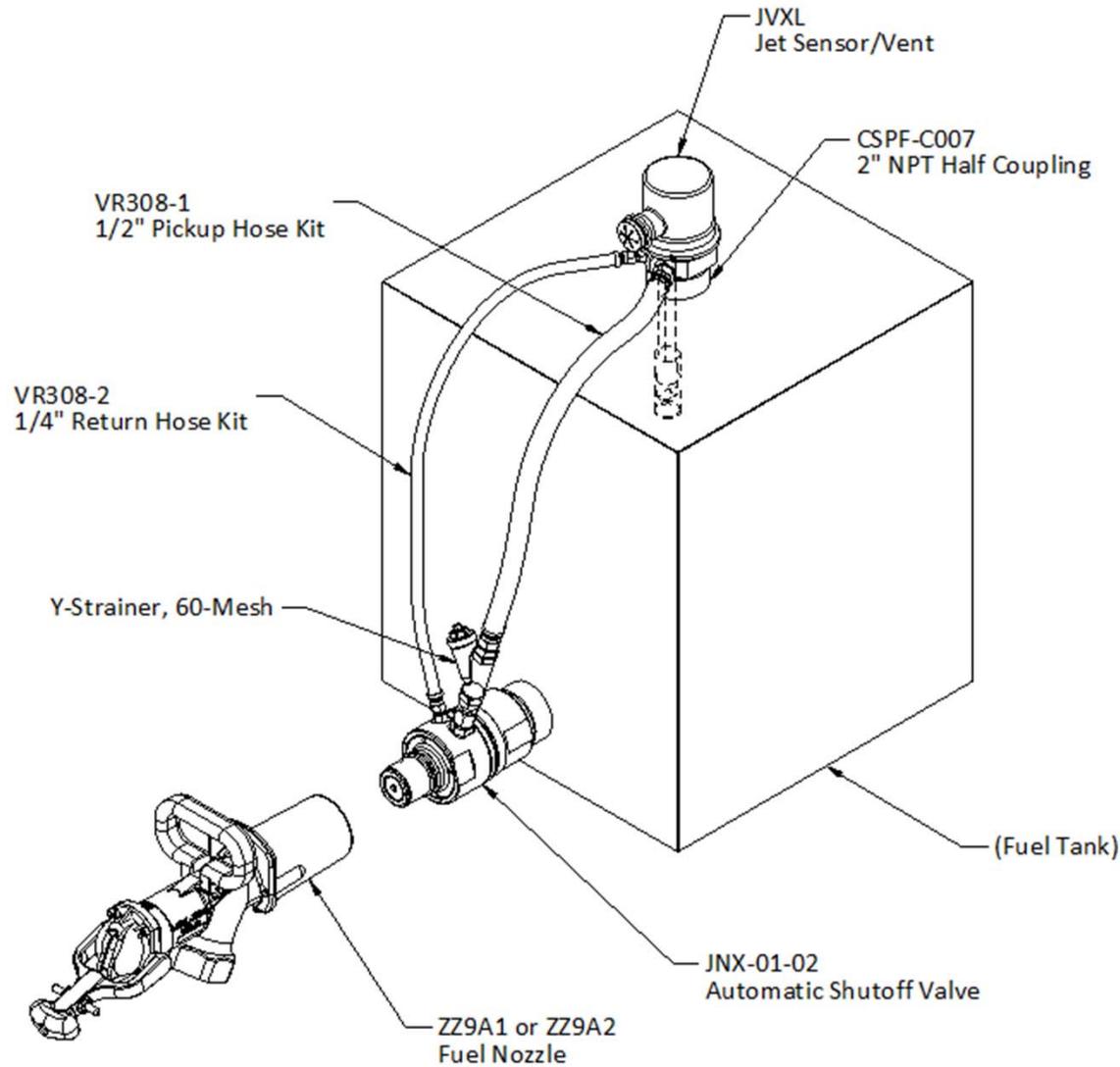
## JNX System Pressure Drop vs. Flow Rate (ZZ9A2 nozzle connected to JNX-01-02)



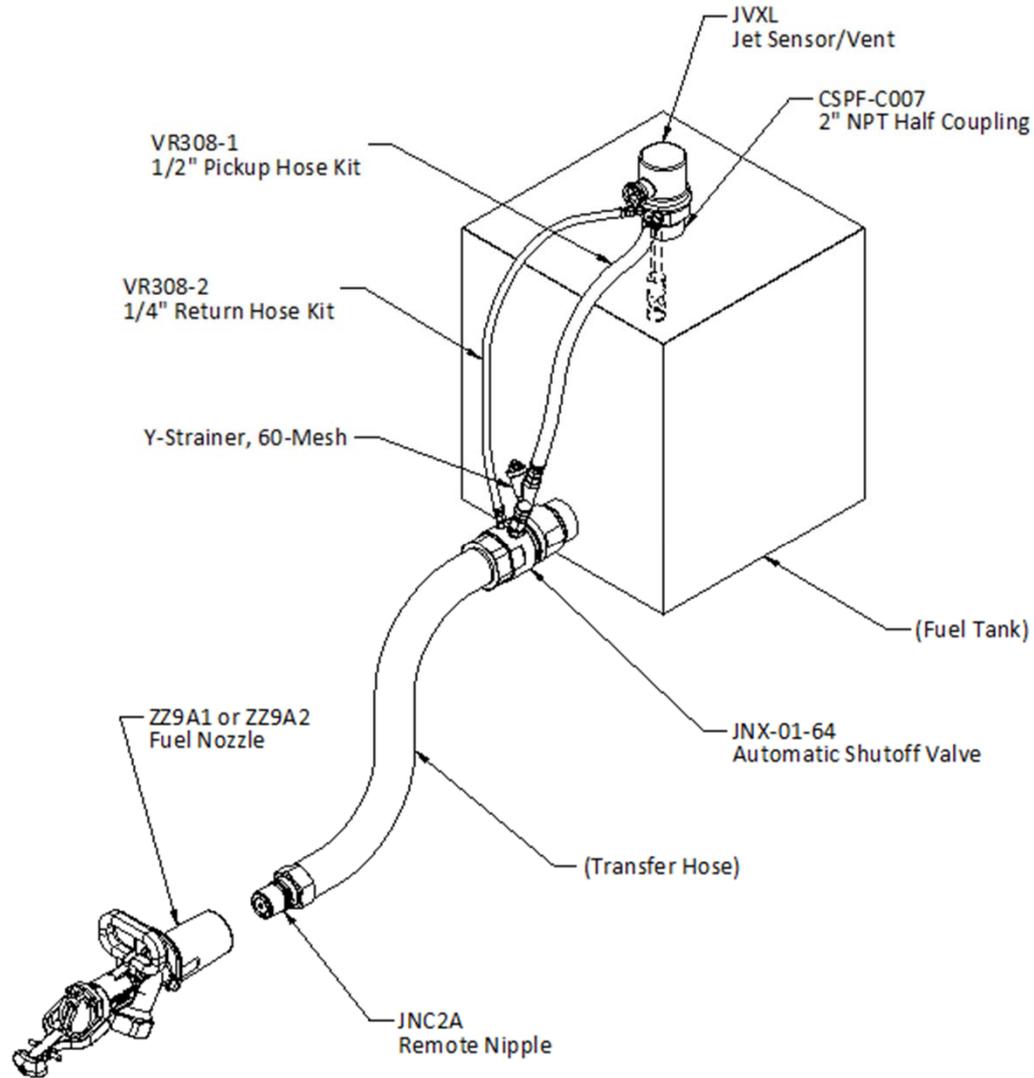
# JNX Modular Design



# Direct Mount Configuration



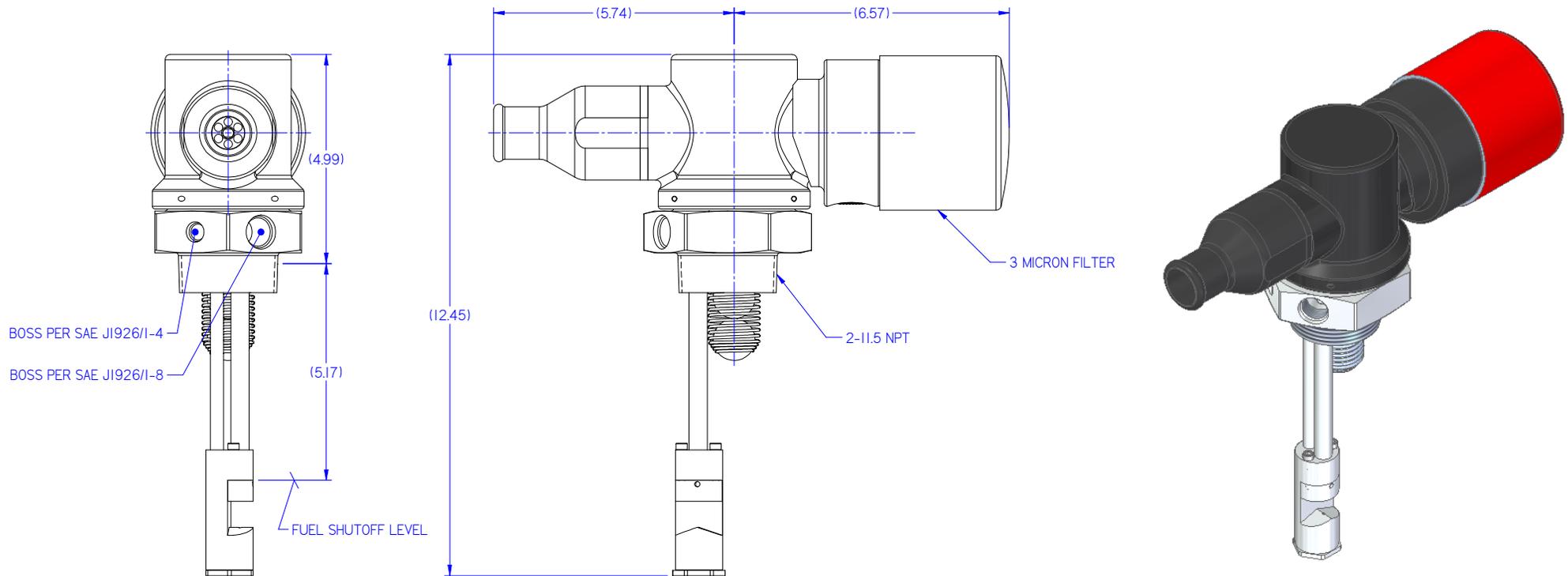
# Remote Mount Configuration



## ❖ 3 Micron Filtered Jet Sensor/Vent [JV23]:

- Option to directly or remotely mount filter
  - Remote mount can accommodate virtually any filter, 3-micron or even 2-micron
- High flow
  - 3/4" bore stem instead of standard 1/2" bore stem → less pressure drop and lower chance of premature nozzle shutoff
- Bypass check valves for efficient operation
  - Check valve at outlet ensures that only filtered air enters tank
  - Check valve at inlet ensures that air does not pass through filter during fueling
  - Vacuum relief included in case filter is clogged
- Also available for use with pressurizing (traditional) fast fueling systems [ZV23]

## ❖ 3 Micron Filtered Jet Sensor/Vent (JV23L shown):



- ❖ **1000 lpm Optional Upgrade for JNX:**
  - Current JNX system is limited to 800 lpm by inlet connection (nozzle and nipple)
  - By increasing size of inlet connection, flow rate can be increased to at least 1000 lpm
  - All other components stay the same – no change to the automatic shutoff valve subassembly
  - Customers can choose between 800 lpm and 1000 lpm options
    - Existing 800 lpm JNX systems can easily be converted to 1000 lpm

## ❖ 1000 lpm Optional Upgrade for JNX:

