

Domestic water into a building.

Sanitary waste <u>out of</u> a building.

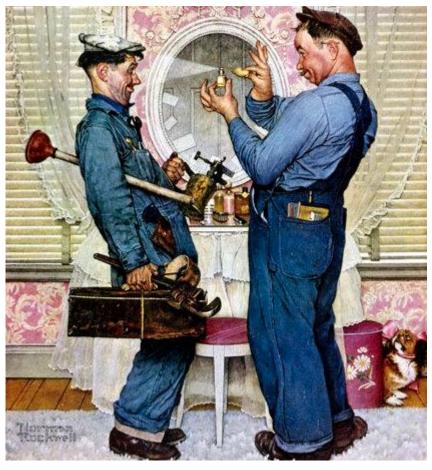
How important are these functions?





PIPE AND FOUNDRY COMPANY





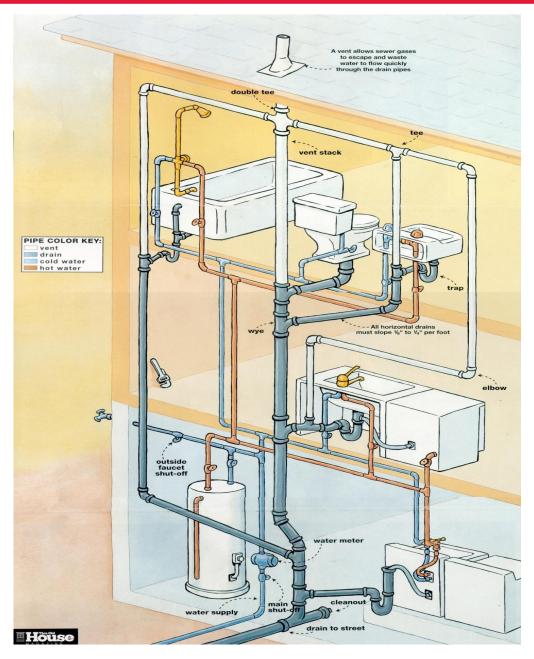








RESIDENTIAL PLUMBING SYSTEM



Domestic Water System

- Pressurized potable water delivery system.
 - FlowGuard Gold CPVC
 - Copper / PEX

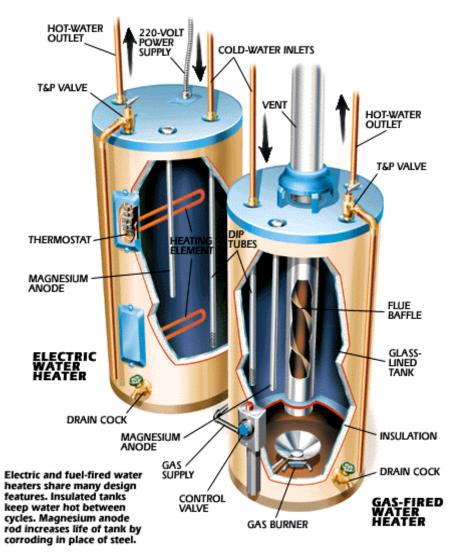
Sanitary Waste (DWV) System

- Gravity waste elimination system.
- Which System is more complex?



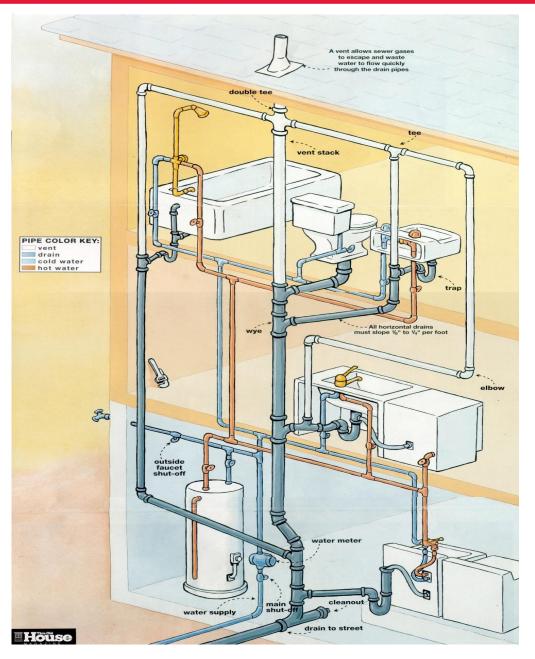
HOT/COLD DOMESTIC WATER SYSTEM







RESIDENTIAL PLUMBING SYSTEM



Domestic Water System

- Pressurized potable water delivery system.
 - FlowGuard Gold CPVC
 - Copper

Sanitary Waste (DWV) System

Gravity waste elimination system

D = drain tubs & sinks

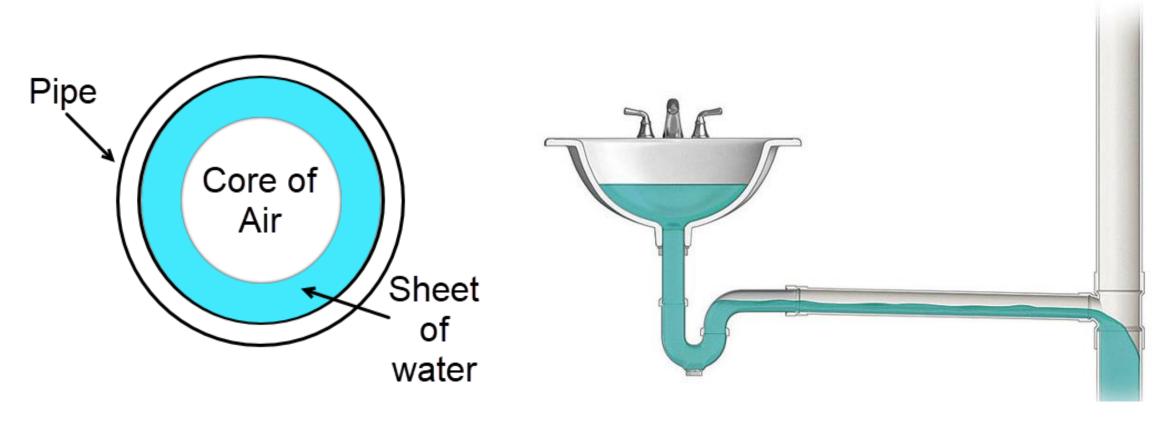
W = waste from water closets

V = vent air into/out of the system.

- Cast Iron (No-Hub, Service, XH)
 - PVC DWV & ABS DWV

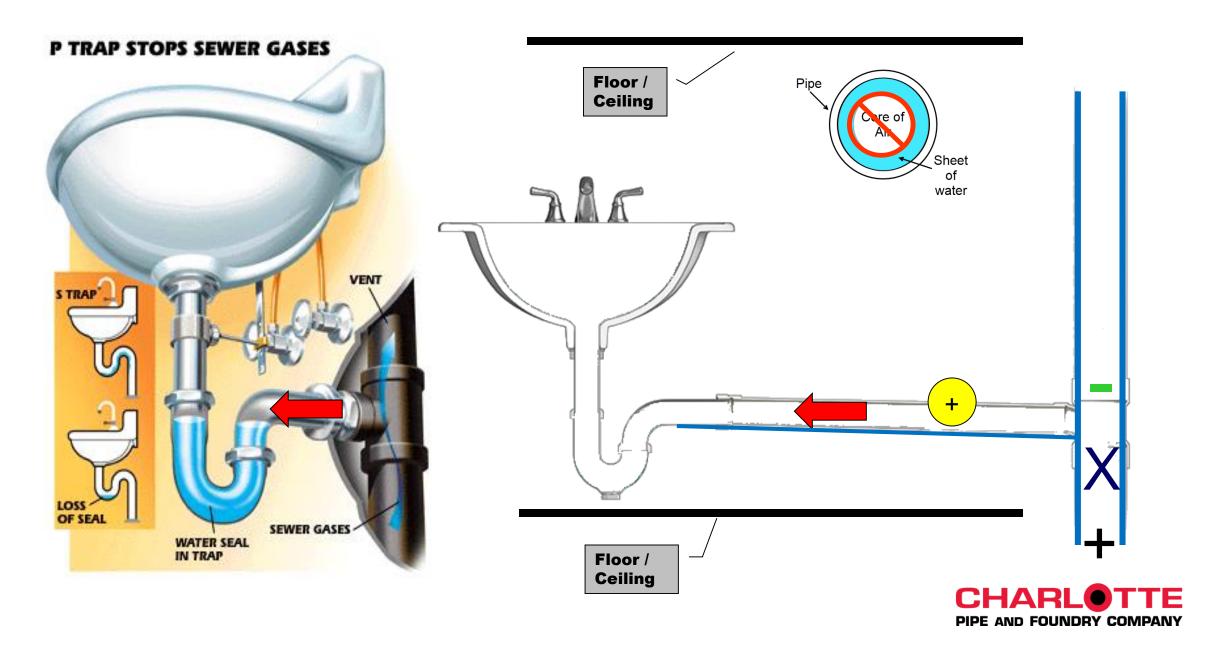
What's a vent do?

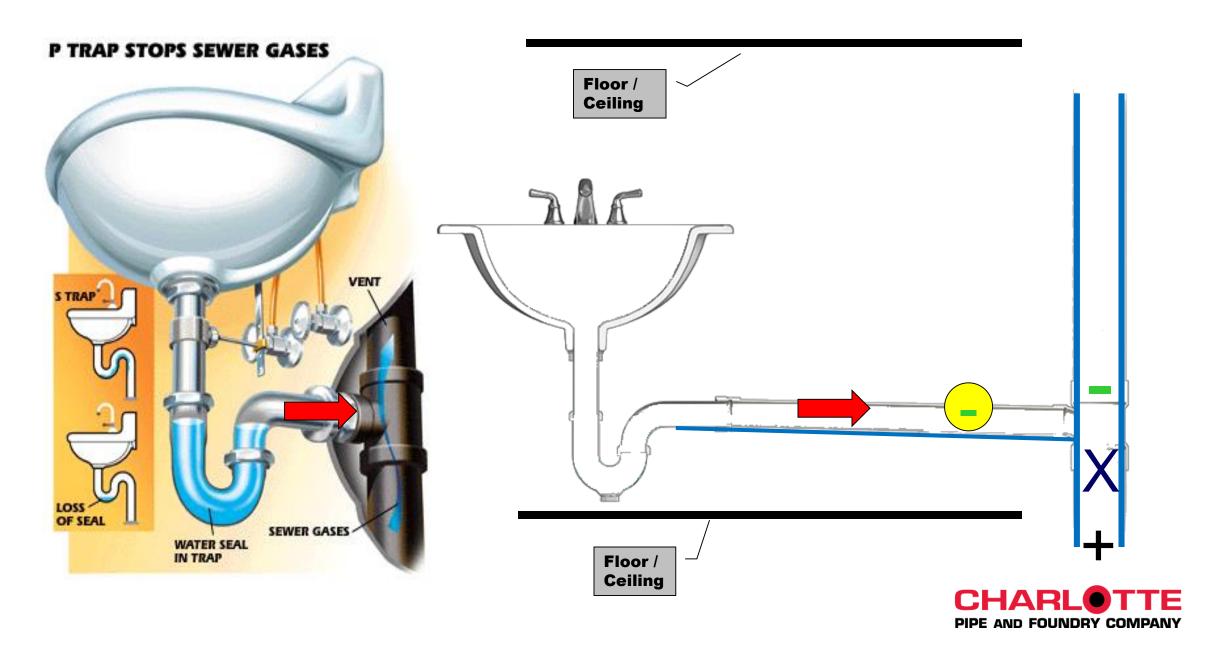




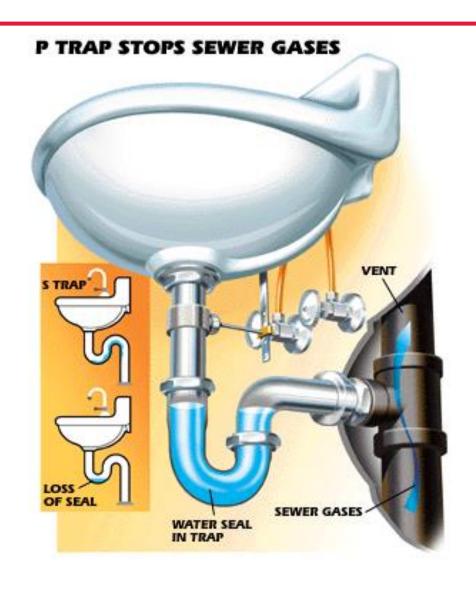
Flow 1/4 to 1/2 Full







WHO NEEDS A TRAP SEAL ANYWAY?



Intrusion of sewer gases

- Unpleasant
- Toxic
- Explosive



WHO NEEDS A TRAP SEAL ANYWAY?



Uninvited house guests

- Vermin
- Flying / Crawling Insects
- Disease (SARS)

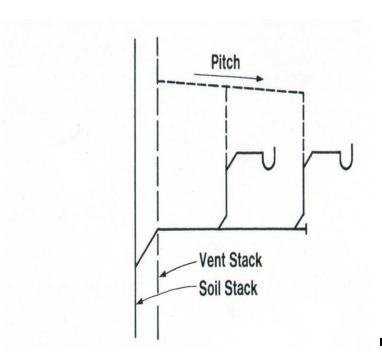


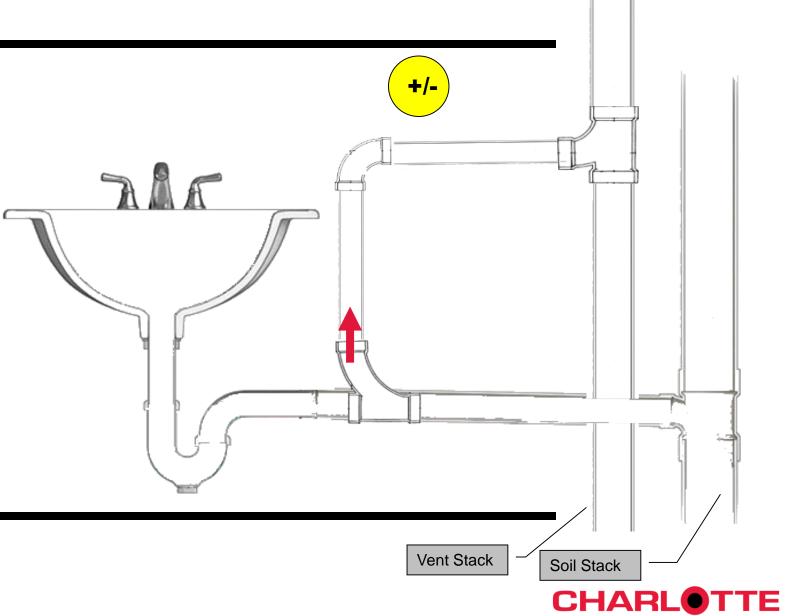
If you reduce venting back to the basics, it is easier to understand the design of venting systems. The original and sole purpose of venting is to protect the trap seal. If a trap did not exist in a drainage system, a vent would not be required.

Source: ASPE



Vent System Protects the Trap Seal







CHARLOTTE PIPE AND FOUNDRY COMPANY



You can't beat the system: