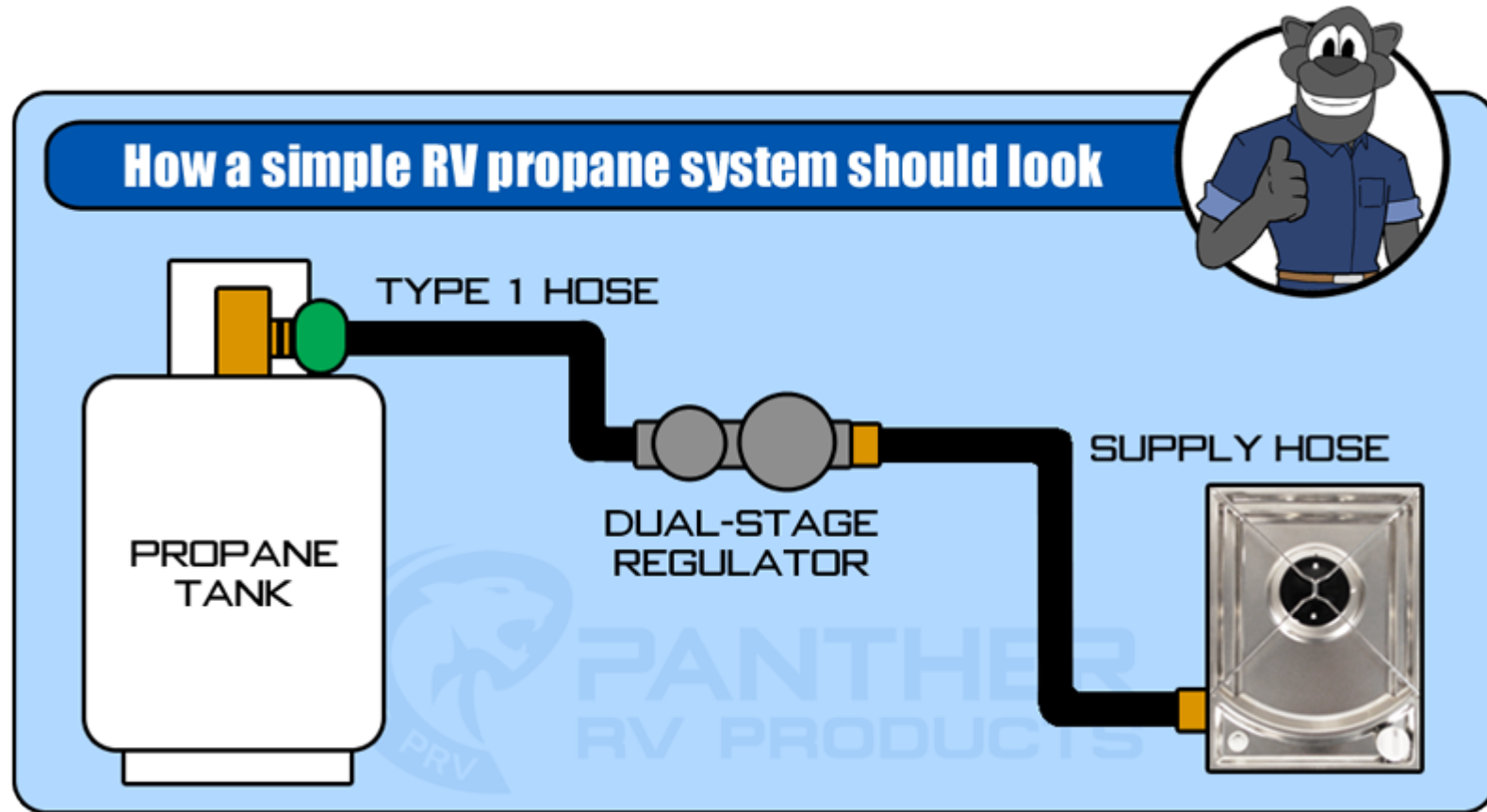


# PROPANE

2021



# Simple Propane system



# What is that Smell

- Methyl **mercaptan** is a flammable colorless gas with unpleasant odor described as rotten cabbage. It is **used as** a gas odorant.
- Propane has no smell. Mercaptan is added to the propane in minute amounts to make us aware of a leak.



Manometer



Digital Manometer



Sniffer

# Tanks and Cylinders

There are two basic categories of propane storage containers DOT cylinders and ASME tanks.

Propane Cylinders for transportation are built to Department of Transportation (DOT) specifications and their capacity is expressed in pounds of water. A popular example of a propane cylinder is the size used on barbeques known as a 20 pounds cylinder. Cylinder sizes range from a portable 5lbs cylinder to a residential storage size of a 420lbs

Propane Tanks for permanent installation are built to American Society of Mechanical Engineers (ASME) boiler and pressure vessel standards and their capacity is expressed in US Gallons. An example of a ASME Tank is supply for a backup generator, a horizontal 500-gallon tank.

# Recertification of Propane Storage containers

- Inspection and requalification requirements for tanks differ by jurisdiction, tank size and tank design.
  - Tanks are regulated by provincial and territorial authorities
  - It is illegal to fill propane cylinders or tanks to more than 80% capacity, allowing room for volume changes due to temperature variations.
  - Propane cylinders and tanks must be equipped with a pressure relief valve that opens and closes to prevent excessive internal pressure due to abnormal conditions
- 
- ❖ Please see your local RV dealer for regulations in your state regarding propane certification

# Propane Tank Components

10 x 32



POL Valve



OPD valve

The POL Valve has protection in it to prevent the release of propane if the valve has no resistance.

OPD Valve has built in protection to prevent overfilling of the container .



# Propane delivery

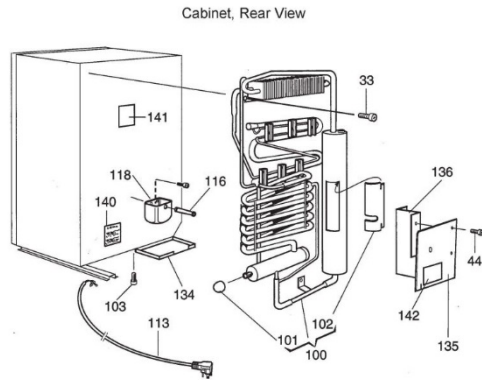


Propane regulators regulate the propane pressure in stages. They have single and dual stage regulators.

Hoses come in varying lengths and have multiple fitting types. A combination of copper and hoses will be used on your system. Fittings should not be overtightened, and hoses should be checked for cracks.



# Propane consumption



In all uses for propane in your coaches the propane is burnt. For the system to operate properly the air/fuel mixture must be adjusted properly. This can be affected by a bad regulator, miss adjustment, dirt in the orifice or burner tube and altitude. Indicators of this include flame size and color and combustion noise.

# Detector



Propane detectors have a lifespan and require replacement to be effective.