

Fittings Checklist

Projects 15, 16 and 17

Gravity feed (Project 15)

- ☐ **Food-grade tank or tote with tight lid and screened vent** Chapter 11.
- ☐ **Bottom outlet fitting** 3/4 inch tank bulkhead fitting. \$17.96
- ☐ **Shutoff valve** 3/4 inch ball valve. \$1.79 to \$3.78 each, in multipacks
- ☐ **Pipe or tubing sized to your flow** \$69.99 for 50 feet, \$89.99 for 100 feet
3/4 inch flexible PVC pipe.
- ☐ **Float valve or overflow, if the tank refills itself** \$30.23
Top-mount float valve.
- ☐ **Air release or access point at a high point you cannot avoid**
Ask a plumbing supplier. Give your pipe size and pressure, and say the line carries drinking water.
No price given.
- ☐ **Measuring tape, a clear-tubing level or line level, and a level**
- ☐ **Level, solid base for the tank, above the tap**
Fittings and pipe on a short run: about \$120 to \$140.

Solar pump to an elevated tank (Project 16)

- ☐ **DC solar pump and a controller made by the same company**
- ☐ **Solar panels sized to the pump** About \$1 to \$1.50 per watt
- ☐ **Mount that faces the panels due south**
- ☐ **Float switch for the tank** Test it.
- ☐ **Wire** Direct-burial UF wire (NMSU).
- ☐ **Discharge pipe**
- ☐ **Storage tank at height** See Project 15.
- ☐ **Disconnect, grounding and lightning protection**
- ☐ **Basic protection against theft**
- ☐ **Well pump only: safety rope and a well seal**
Typical installed solar well pump system: \$1,200 to \$3,000 (Angi).

If your site has power: check a pressure tank (Project 17)

- ☐ **Pressure gauge** A tire gauge that reads to at least 60 psi works for the air side.
- ☐ **Bike pump, small air pump or compressor**
- ☐ **Owner's manual or the label on your tank and switch**

Before you drill: bottom taps on lined tanks can leak, and local plumbing codes can make permits for drinking-water systems difficult (The Center for Rainwater Harvesting). Keep the pipe running downhill.

Notes

Prices are from Home Depot listings in October 2026, Angi (July 2026) and Mississippi State Extension. Prices move, so treat them as starting points.