Submersible Pump Guideline
Configuring Water Systems for Year Round Water Supply with Heat-Line® Freeze Protection

**Color Codes:**
- **Non heated water pipe** (1” or 1 ¼”):
  - Lift _____ ft.
  - Length _____ ft.
- **Heat-Line freeze protected water pipe:**
  - Lift _____ ft.
  - Length _____ ft.
- **Submersible pump control box**
- **Heat-Line built-in safety:** GFCI device
- **Insulation:** ¾” thick wall, 3” dia. 6 ft. long:
  - Length _____ ft.
- **Mechanical protection:** Big “O”
  - Cover all pipe on land with insulation
  - Length _____ ft.
- **Thermostat:** Wall mount
  - Length _____ ft.
  - as required
- **Thermostat probe (sensor):** Wire 19 ft., mount on the water pipe. Locate at the “coldest spot on the pipe”, as illustrated. Use when superior energy efficiency is desired – This will also improve life span of the product.
- **Philmac coupling** (1” or – 1 ¼”)

**Available from Heat-Line**
- Freeze protection system for the water supply line: Heat-Line®, Retro-Line®, or CARAPACE®
- Water pipe: 1” or 1 1/4”
- Insulation
- Thermostat
- Submersible Pump Stand (PUMP-STAND)
- Armored cable for submersible pump, with quad break-out boot for underwater cables (TECK 90 12-3C WIRE)
- MilliAMP 10mA GFCI certified wall mount safety protection for pump (MA-10)
- Foot Valve Stand (FV-STAND)
- High quality Philmac Compression Pipe Fittings and Accessories

**SAFETY / ELECTRICAL INSPECTION**
All submersible pumps should be wired by licensed electricians. Check your local building, plumbing and electrical codes before installing. You must comply with their rules.

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