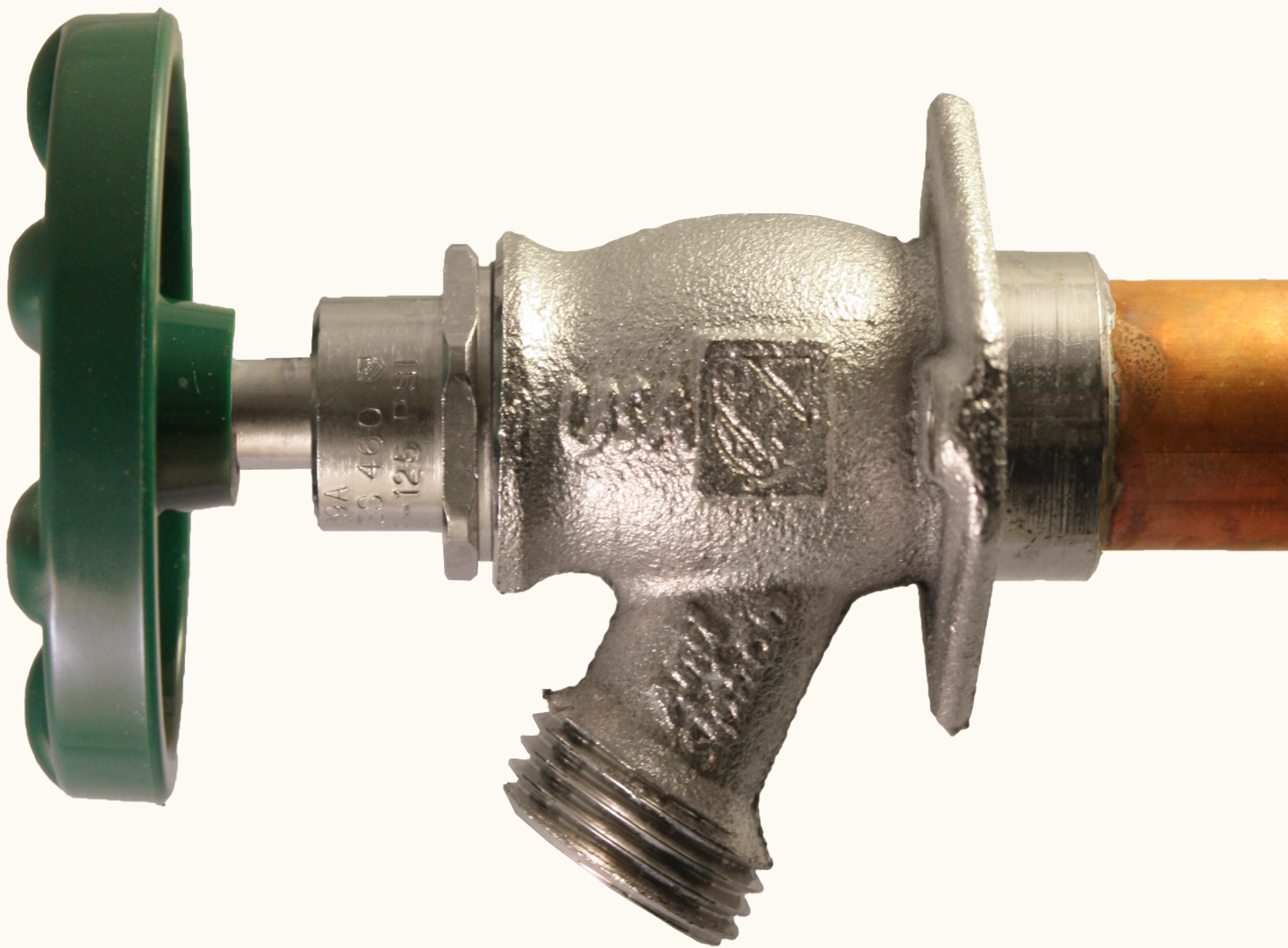
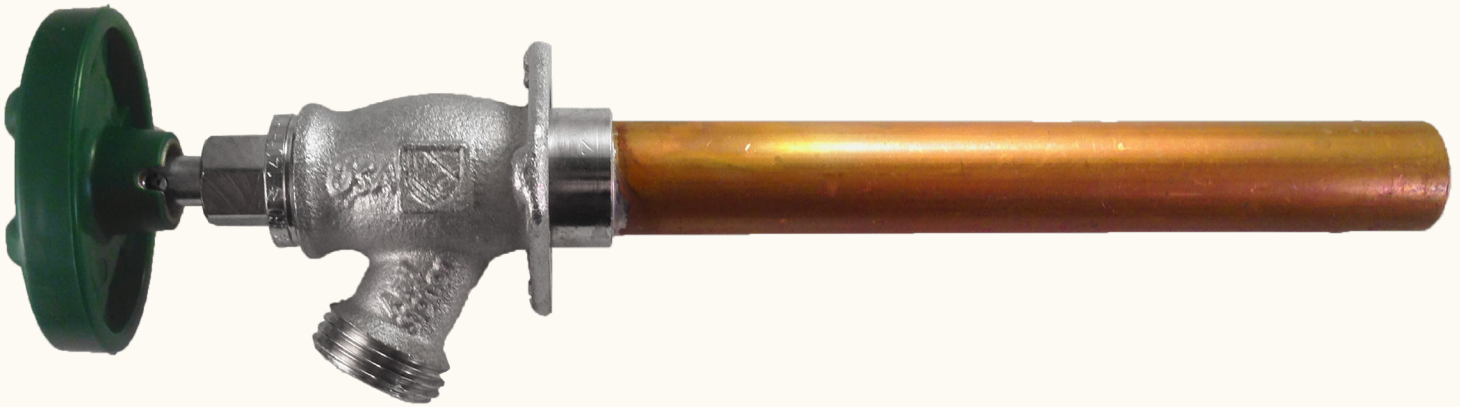


470 Series Freeze-Proof Wall Hydrant Installation, Use & Repair Guide



470 Series Freeze-Proof Wall Hydrants



470 Series Hydrant Information

- Freeze-Proof® technology prevents damage from freezing water by reducing pressure build-up.
- O-ring shut off design that prevents damage & wear to hydrant seat.
- Maintains constant separation between household and irrigation water sources.
- Prevents back-flow by utilizing patented Arrow-Breaker® integrated anti-siphon technology.
- QuickTurn® easy on/off operation without letting go of the handle.
- ASSE 1019-A Certified.
- Max. 140°F - 125 PSI.
- 3 Year limited warranty; Made in the USA from domestic and foreign components.
- **Faucet should not be pressurized (left open) for more than 12 consecutive hours.**
- **Not designed for constant pressure applications (i.e. sprinkler & drip timers, "Y" Shut-offs).**
- Remove hose after use to drain faucet.
- When using self-closing nozzle, always relieve pressure after shut-off.
- Faucet must be installed at a downward angle to ensure drainage & prevent freezing.










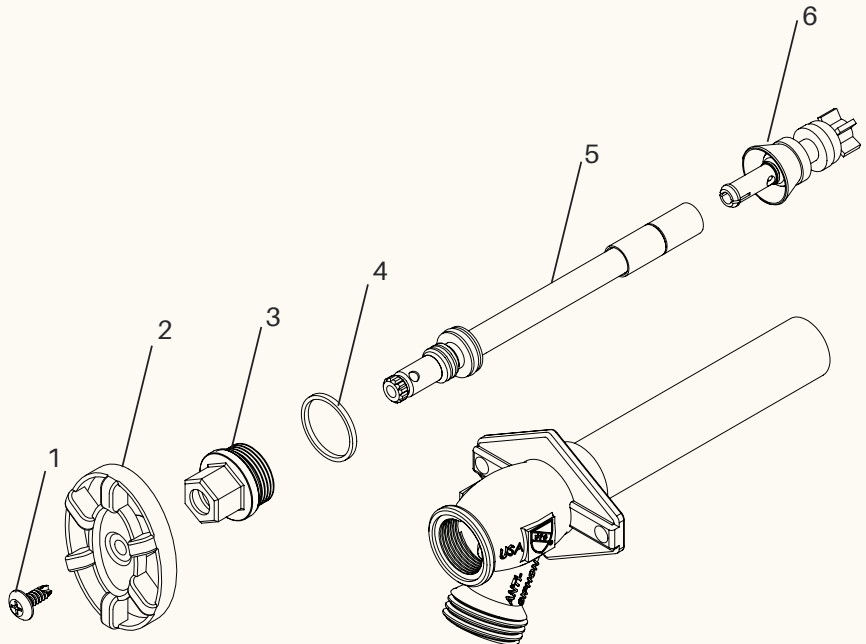
Repair

Leaking or malfunction:

- Shut-off water to the hydrant & open it all the way.
- Loosen the bonnet with a wrench and remove stem assembly.
- With the stem removed, briefly turn water supply back on to flush the hydrant, then shut-off again.
- Inspect the stem for cracks or damage to the O-rings or other parts. The recommended repair is to replace the Freeze-Proof® check assembly [PK7026] or replace the entire stem. Read instructions on next page to identify the stem part kit needed [i.e. PK7004 - PK7014].
- Reinstall stem with bonnet in the open position, close the hydrant and turn water back on to the valve.

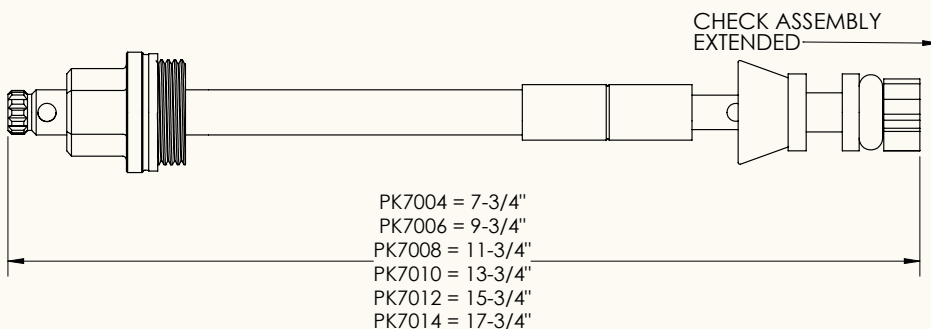
470 Series Freeze-Proof Wall Hydrants



Rubber-Coated Handle & Screw  # PK1297 Rubber-coated green oval handle (# 2) & stainless screw (# 1)	Freeze-Proof® Check Assembly  # PK7026 Replacement Freeze-Proof® check assembly (# 6)	Gap-Spacer Wedge  # PK1450 Replacement gap spacer, used to tilt faucet downward	470 Series 4" Stem Assembly  # PK7004 4-inch hydrant stem assembly (# 3-6) (8" total length)	470 Series 6" Stem Assembly  # PK7006 6-inch hydrant stem assembly (# 3-6) (10" total length)	470 Series 8" Stem Assembly  # PK7008 8-inch hydrant stem assembly (# 3-6) (12" total length)	470 Series 10" Stem Assembly  # PK7010 10-inch hydrant stem assembly (# 3-6) (14" total length)
470 Series 12" Stem Assembly  # PK7012 12-inch hydrant stem assembly (# 3-6) (16" total length)	470 Series 14" Stem Assembly  # PK7014 14-inch hydrant stem assembly (# 3-6) (18" total length)					

How to measure a frost-proof stem:

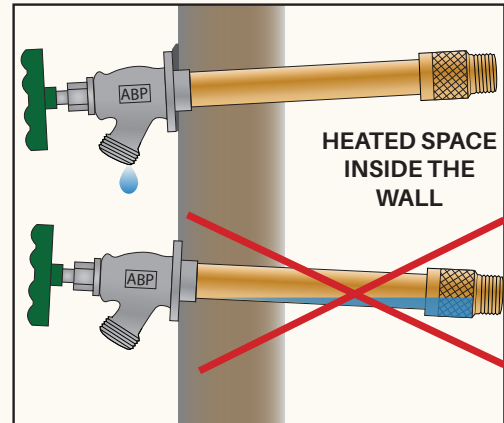
- 1- Measure overall (tip to tip) length of the stem assembly.
- 2- Subtract 3.75".



Frost-Proof Wall Hydrant Installation and Use



- Frost-proof wall hydrants are designed to prevent damage from freezing water in plumbing systems. Frost-proof wall hydrants protect the water supply from the cold weather by shutting-off flow at the heated space inside the wall.
- For a frost-proof wall hydrant to work properly, it must be installed at a slight downward angle toward the spout (as pictured right). This allows water to drain when it is shut-off. A gap spacer wedge can be used to ensure proper installation with a downward tilt.
- If the hydrant is installed level or at an upward angle, water will not drain properly and may lead to freeze damage.

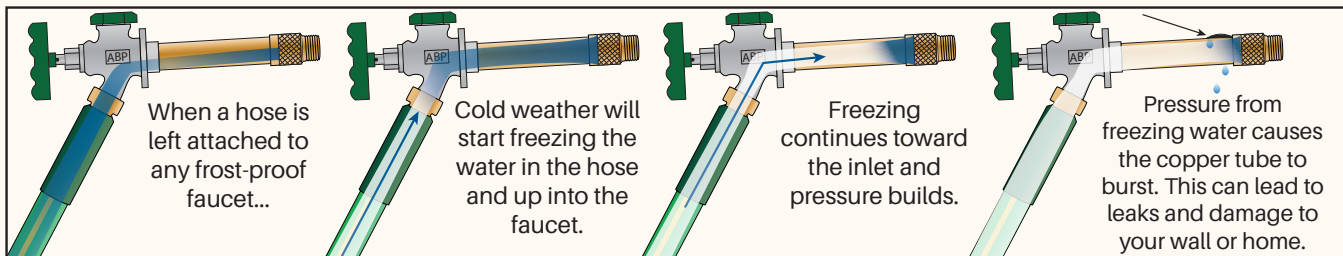


The only cause of a burst frost-proof hydrant is water expansion from freezing water inside an un-drained wall hydrant. Properly installed valves (with downward tilt) will always drain unless a hose or other device was left attached.



Grey gap spacer wedge can be used to ensure downward tilt.

"REMOVE HOSE IN FREEZING WEATHER".



When a hose or other device is left attached to the faucet (such as an irrigation timer, "y" hose splitter, or add-on back-flow preventer), water will remain trapped inside the wall hydrant. If cold weather hits, water inside the hose will begin to freeze upward toward the back, or "seat", of the faucet, and the pressure inside the copper tubing will exceed capacity and burst. This will cause leaks within the wall and can cause considerable damage. Frost-proof wall hydrants are designed to prevent this damage as long as the user ensures the faucets are angled downward and all hoses/devices are removed during freezing weather.