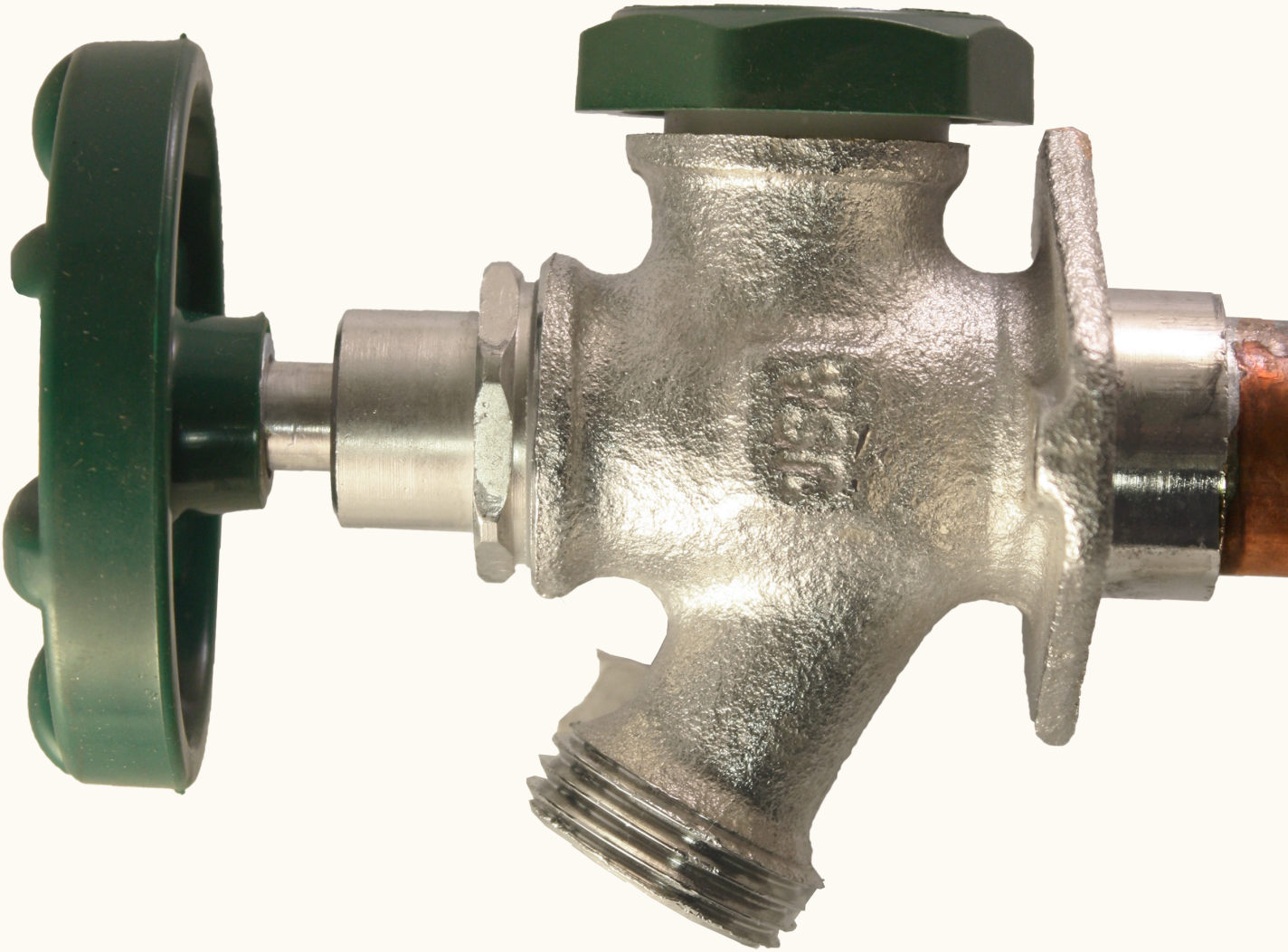
420 Anti-Siphon Series Frost-Proof Wall Hydrant Installation, Use & Repair Guide



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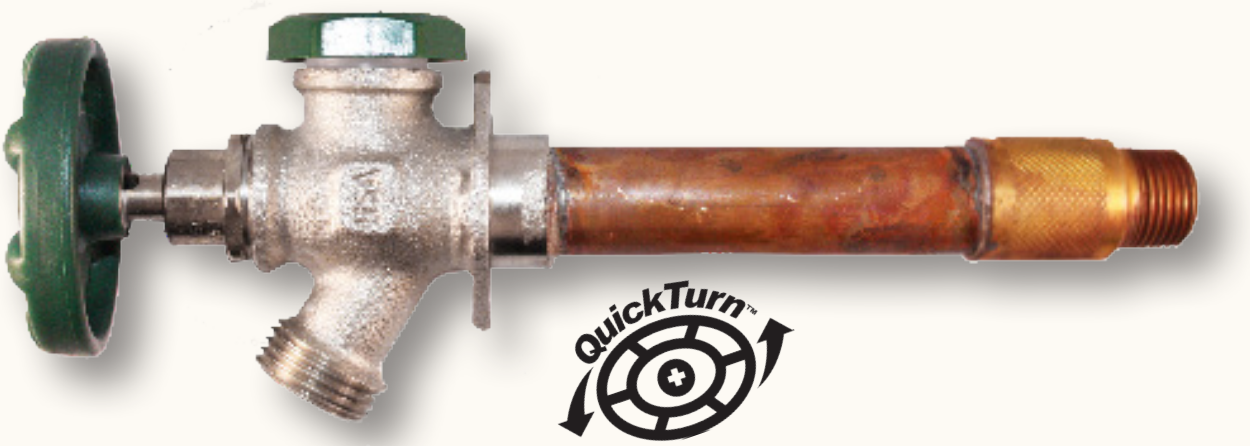
420 Series Anti-Siphon Wall Hydrants



420 Series Hydrant Information

- Frost-Free Hydrants with built-in anti-siphon technology.
- Protects drinking water from harmful contaminates (pesticides, herbicides, etc).
- Includes QuickTurn® Technology: easy on/off operation without letting go of the handle.
- ASSE 1019 Certified by IAPMO.
- 3-Year Limited Warranty.
- ***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).***
- 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 out of the Weep Hole during use:

- Cause: worn out o-ring on the check assembly. This happens over time or if the faucet is left "ON" for long periods of time (over 12 hrs).
- If the faucet was installed after 1999 OR the stem's check assembly is SPRING-LESS, replace with new check assembly [PK2016] OR full stem.

Leaking out of the Green Cap Air-Vent:

- Cause: worn, broken or missing parts.
- Repair by removing old parts & replacing with new parts from kit [PK1430].
- Follow assembly diagram on next page.

Any Leaking on Faucet Installed Before 1999 or Check Assembly with SPRING

- Cause: worn out parts & seals.
- If the stem has a SPRING in the Check Assembly, the full stem should be replaced with a Special Order Stem Length that is 1/4" longer [PK2004SP - PK2014SP]- OR replace the hydrant.

Leaking out of the Hose Thread when "OFF"- Will Not Shut Off:

- Cause: worn out washer or broken faucet seat.
- Replace the check-assembly or entire stem.
- If replacement parts do not work, contact Arrowhead Brass.

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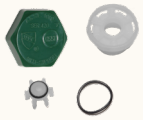
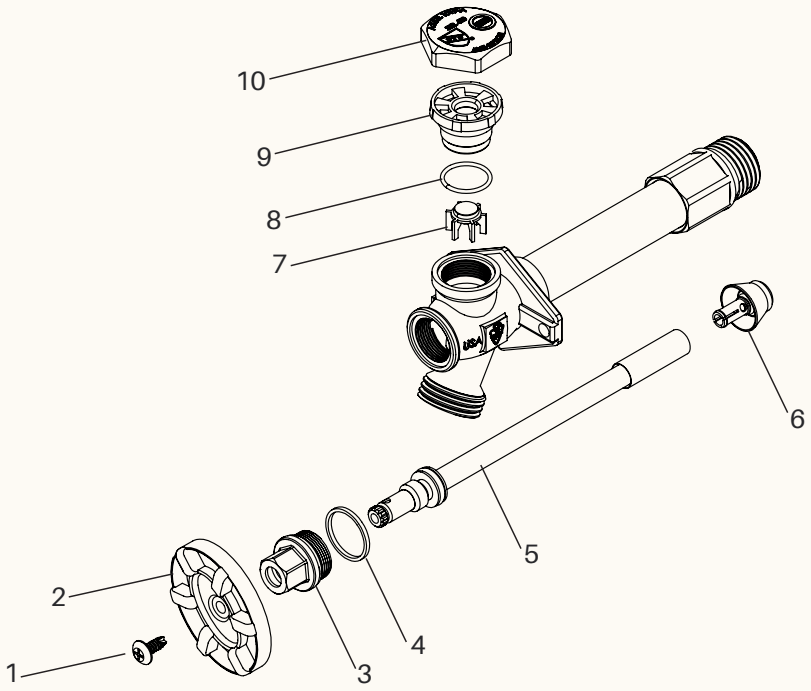
Repair & Replacement Parts

Air-Vent Assembly	Rubber-Coated Handle & Screw	Spring-less Check Assembly	Gap-Spacer Wedge	420 Series 4" Stem Assembly	420 Series 6" Stem Assembly	420 Series 8" Stem Assembly
						
# PK1430 Includes green cap, housing, plunger, & O-ring (#'s 7-10)	**# PK1295** Rubber-coated green oval handle (# 2) & stainless screw (# 1)	**# PK2016** Replacement spring-less check assembly (# 6)	**# PK1450** Replacement gap spacer, used to tilt faucet downward	**# PK2004** 4-inch hydrant stem assembly (# 3-6) (8" total length)	**# PK2006** 6-inch hydrant stem assembly (# 3-6) (10" total length)	**# PK2008** 8-inch hydrant stem assembly (# 3-6) (12" total length)

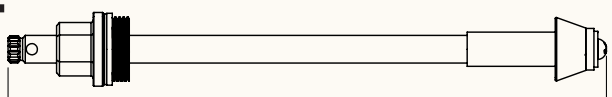
420 Series 10" Stem Assembly	420 Series 12" Stem Assembly	420 Series 14" Stem Assembly
		
# PK2010 10-inch hydrant stem assembly (# 3-6) (14" total length)	**# PK2012** 12-inch hydrant stem assembly (# 3-6) (16" total length)	**# PK2014** 14-inch hydrant stem assembly (# 3-6) (18" total length)



How to measure a frost-proof stem:

1- Measure overall (tip to tip) length of the stem assembly, with the check assembly pushed in.

2- Subtract 4".



PK2004 = 8"
PK2006 = 10"
PK2008 = 12"
PK2010 = 14"
PK2012 = 16"
PK2014 = 18"

*For 420 series hydrants installed prior to 1999, use PK20__SP stem assembly to replace old style stems that have a spring check assembly. Contact Arrowhead Brass for more details

If your faucet stem has a SPRING or does NOT measure to an even length, you need an "SP" Stem

- SP stems are 4-1/4" longer than the hydrant length (i.e. PK2004SP = 8-1/4").
- SP stems are designed for valves older than 1999. SP stems are non-returnable & not covered under warranty.

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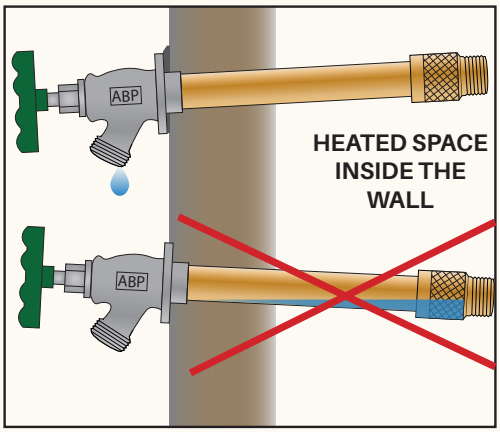
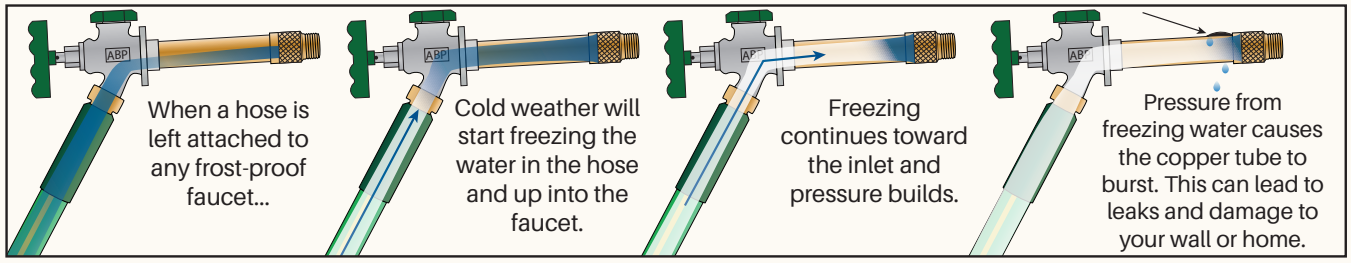
Frost-Proof Wall Hydrant Installation and Use

- 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.

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