

# 0865(P) SERIES - NON-FREEZE WALL HYDRANT WITH SELF DRAINING VACUUM BREAKER

Non-Freeze Wall Hydrant can be installed through a wall and allow water to drain back out of the valve so freezing will not occur in the winter season. This prevents the need for winterizing and allows outdoor access to water year round.

**CAUTION:** Boshart will not be liable for any damage caused by failure to remove the hose or any attached device. Failure to do so may cause the hydrant to freeze. Freezing can lead to the tube bursting, resulting in property damage and may void the warranty. Boshart will not be liable for any damage caused by failure to remove the hose or attached device. Wall hydrants are not intended for potable water supply.

## FEATURES:

- Integral anti-siphon vacuum breaker to allow air to enter the valve, ensuring the valve drains completely
- Stem comes with a weep hole to allow back pressure relief when water is trying to siphon back into the homes water supply
- Chrome plated brass body, tube and adapter
- Black cast handwheel
- Inlet cartridge has built in spring loaded check valve for backflow prevention
- Grey flange wedge to support proper drainage angle, which is crucial for frost-proof performance

## SPECIFICATION:

- Inlet connections:
  - Dual threaded/solder. Thread conform to ANSI/ASME B1.20.1 Pipe Threads, General Purpose (Inch). Sweat connection conforms to ANSI B16.18 Cast Copper Alloy Solder Joint Pressure Fittings
  - Crimp PEX conforms to ASTM F1807 Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing
- Outlet Connection:
  - Hose thread 3/4" GHT conforms to ASME B1.20.7 Standard for Garden Hose Coupling Screw Threads (inch)

## RATINGS:

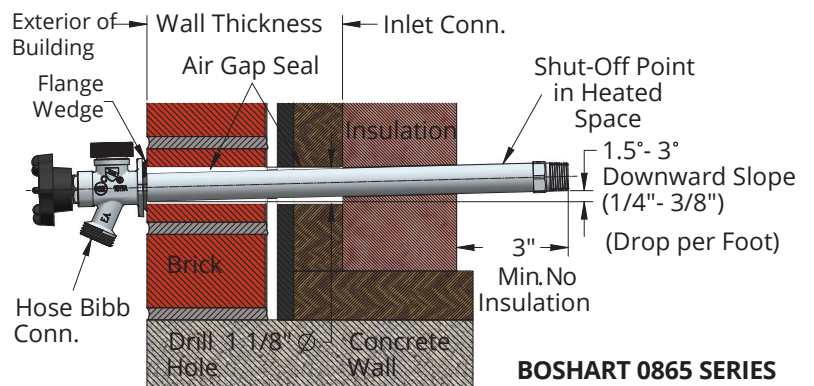
- Max Temperature Rating: 160°F (71°C)
- Max Pressure Rating: 125 PSI

## CERTIFICATION:

- CSA Standard B125.1 Plumbing Fittings Certified
- ASSE Standard 1019 Performance Requirements for Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type Certified
- ASME Standard A112.18.1 Certified Plumbing Supply Fittings



Grey flange wedge can be used to ensure downward tilt.  
"REMOVE HOSE IN FREEZING WEATHER"



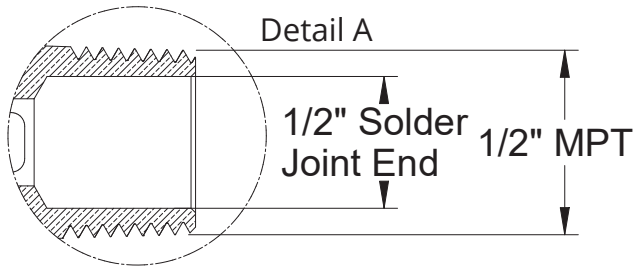
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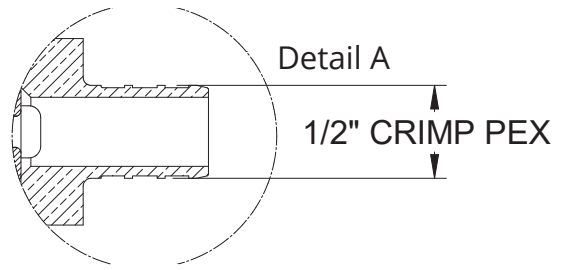
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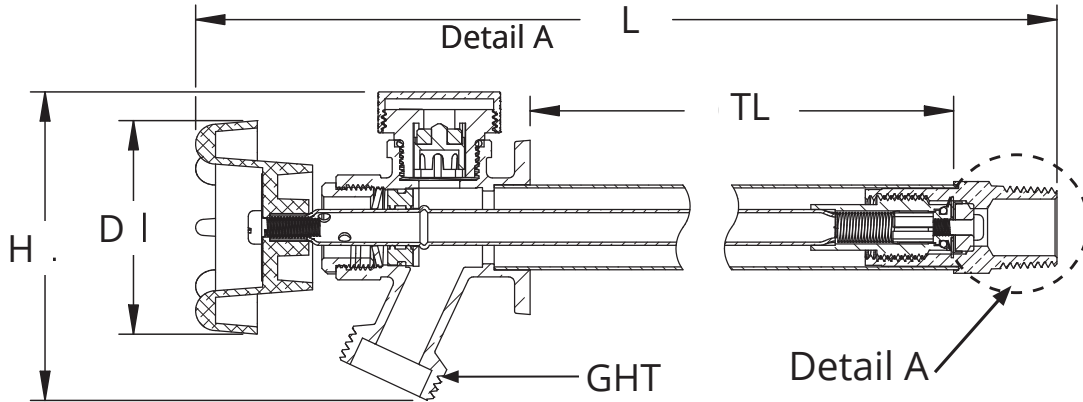




0865 End



0865P End



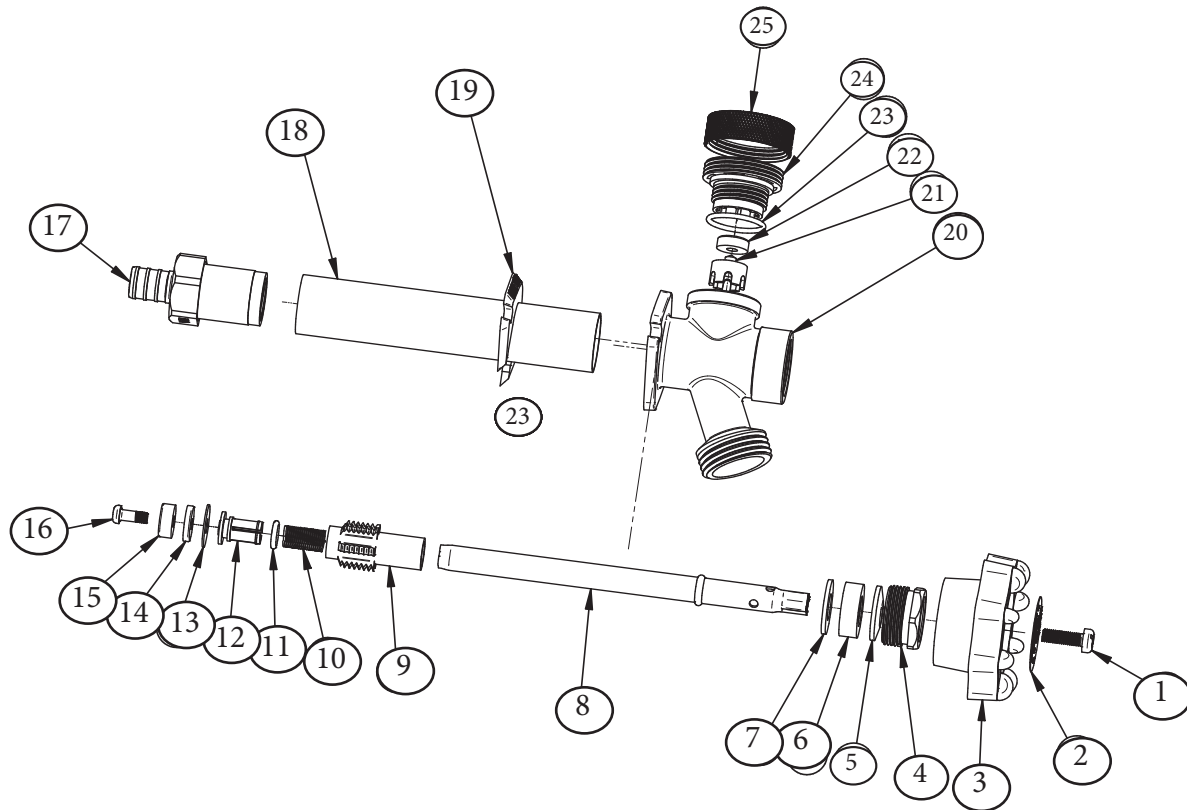
\*\*Short bursts of water can occur from vacuum breaker, but will stop. If it continues to leak, vacuum breaker should be replaced\*\*

DIMENSIONS												
Part No.	Inlet Connection (IC)	Size	D		L		TL		H		Weight	
			inches	mm	inches	mm	inches	mm	inches	mm	lbs	grams
0865-040	1/2" MPT or Copper	4"	2.20	56.00	8.64	219.50	3.96	100.70	3.07	78.00	0.98	443.5
0865-060	1/2" MPT or Copper	6"			10.65	270.50	5.97	151.70			1.04	469.7
0865-080	1/2" MPT or Copper	8"			12.66	321.50	7.98	202.70			1.11	502.9
0865-100	1/2" MPT or Copper	10"			14.67	372.50	9.99	253.70			1.18	534.1
0865-120	1/2" MPT or Copper	12"			16.67	423.50	12.00	304.70			1.24	563.8
0865-140	1/2" MPT or Copper	14"			18.68	474.50	14.00	355.70			1.31	595.3
0865-160	1/2" MPT or Copper	16"			20.69	525.50	16.01	406.70			1.38	623.2
0865-180	1/2" MPT or Copper	18"			22.70	576.50	18.02	457.70			1.42	645.00
0865-200	1/2" MPT or Copper	20"			24.70	627.50	20.03	508.70			1.52	688.2
0865-220	1/2" MPT or Copper	22"			26.71	678.50	22.04	559.70			1.58	714.8
0865-240	1/2" MPT or Copper	24"			28.72	729.50	24.04	610.70			1.61	728.4
PEX Connection												
0865P-040	1/2" PEX	4"	2.20	56.00	8.64	219.50	3.96	100.70	3.07	78.00	0.96	434.5
0865P-060	1/2" PEX	6"			10.65	270.50	5.97	151.70			1.02	464.4
0865P-080	1/2" PEX	8"			12.66	321.50	7.98	202.70			1.08	490.9
0865P-100	1/2" PEX	10"			14.67	372.50	9.99	253.70			1.16	526.7
0865P-120	1/2" PEX	12"			16.67	423.50	12.00	304.70			1.23	558.6
0865P-140	1/2" PEX	14"			18.68	474.50	14.00	355.70			1.29	585.3



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**MATERIAL LIST**

Part No.	Part Name	Material
1	Handle Screw	C26000 NL Brass
2	Name Plate	Aluminium
3	HandWheel	Black Powder Coated Aluminium
4	Stem Packing Nut	Chrome Plated C37700 Brass
5	Stem Packing Washer	304 Stainless Steel
6	Stem Packing	NBR (Nitrile Butadiene Rubber)
7	Stem Packing Flat Washer	SS304 Stainless Steel
8	Stem Pipe	C27000 NL Brass
9	Stem	C37700 Brass
10	Spring	SS304 Stainless Steel
11	Spring Seat O-Ring	NBR (Nitrile Butadiene Rubber)
12	Spring Seat	C37700 Brass
13	Flapper	NBR (Nitrile Butadiene Rubber)

14	Seat Holder	C26000 NL Brass
15	Seat Packing	NBR (Nitrile Butadiene Rubber)
16	Seat Screw	C26000 NL Brass
17	Adapter	Chrome Plated C37700 Brass
18	Tube	Chrome Plated C27000 NL Brass
19	Flange Wedge / Insert Spacer	POM (Polyoxymethylene)
20	Valve Body	Chrome Plated C85700 Brass
21	Vacuum Breaker Disk	POM (Polyoxymethylene)
22	Vacuum Breaker Seat	NBR (Nitrile Butadiene Rubber)
23	Vacuum Breaker Body O-Ring	NBR (Nitrile Butadiene Rubber)
24	Vacuum Breaker Body	POM (Polyoxymethylene)
25	Vacuum Breaker Cap	Chrome Plated C37700 Brass



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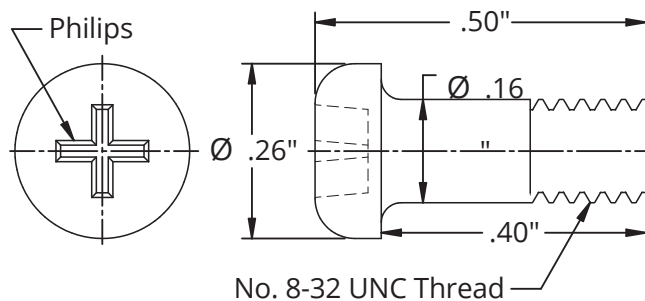
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# REPLACEMENT PARTS

REPLACEMENT PARTS		
Part No.	Description	Components
0865PT-99	Replacement Packing Screw	4
0865PT-03	Replacement Handle	1
0865PT-SA04	4" Replacement Stem Assembly	4-16
0865PT-SA06	6" Replacement Stem Assembly	
0865PT-SA08	8" Replacement Stem Assembly	
0865PT-SA10	10" Replacement Stem Assembly	
0865PT-SA12	12" Replacement Stem Assembly	
0865PT-SA14	14" Replacement Stem Assembly	
0865PT-PA	Replacement Plunger Assembly	10 to 16
0865PT-123	Vacuum Breaker Body	21 to 24
0865PT-98	Replacement Seat Packing	15
0865PT-10	Vacuum Breaker Cap	25

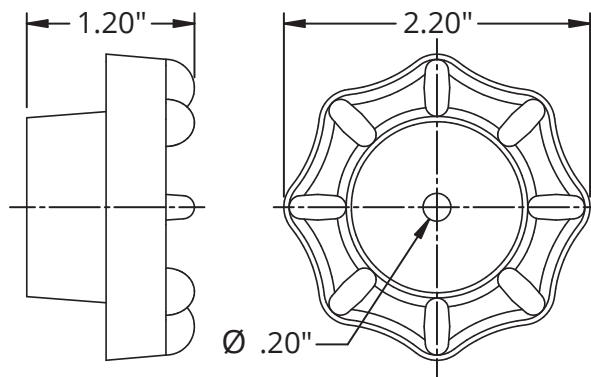
## 0865PT-99 - Replacement Packing Screw

- UNC #8-32



## 0865PT-03 - Replacement Handle

- Name plate and screw not included



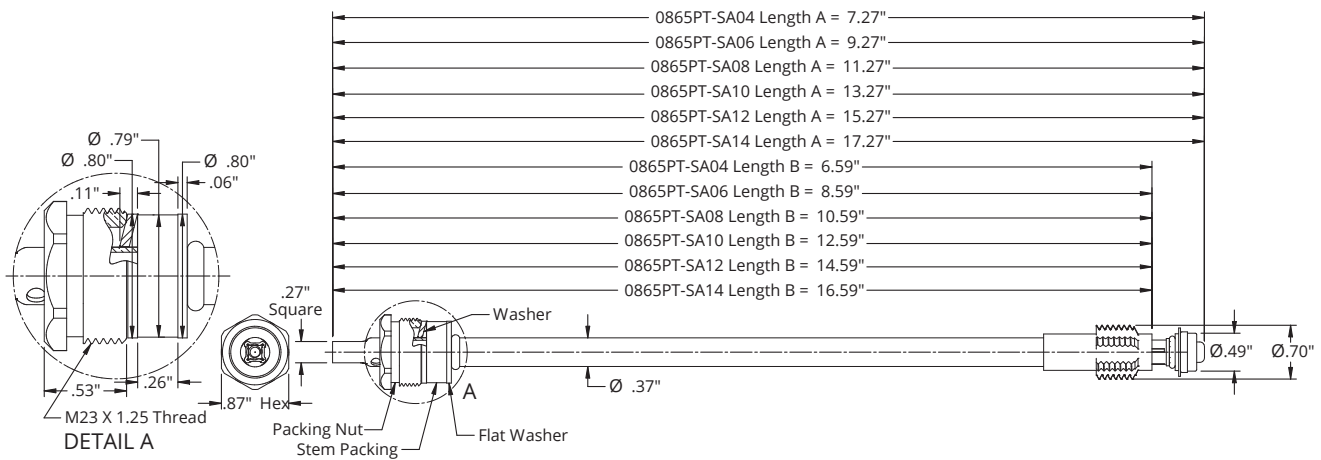
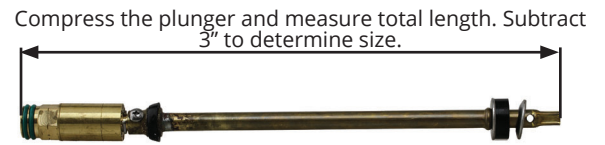
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## Determining Stem Length

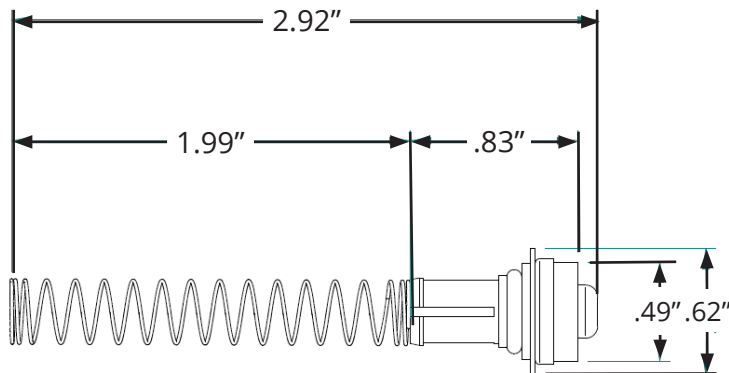
### 0865PT-SA(xx) - Stem Assembly

- Contains items 4-16
- Available in 4", 6", 8", 10", 12" and 14" lengths



### 0865PT-PA - Replacement Plunger Assembly

- Includes spring



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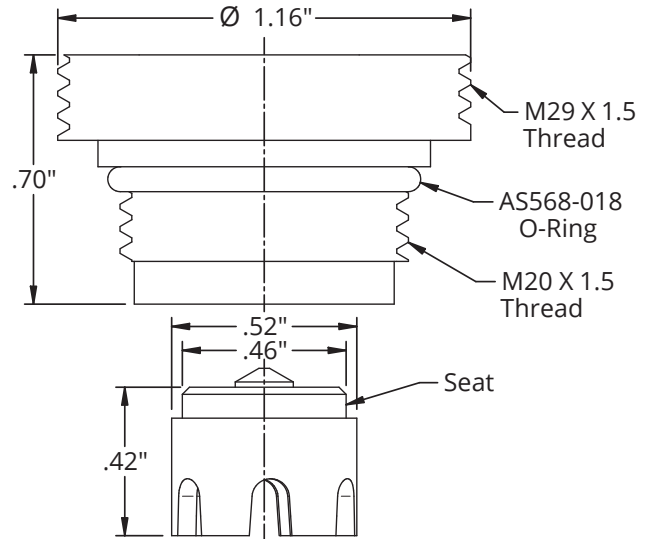
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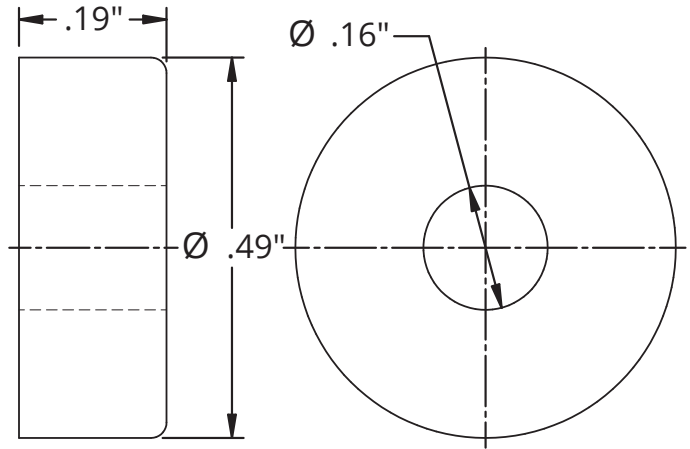


### 0865PT-123 - Vacuum Breaker Body

- Gaskets included

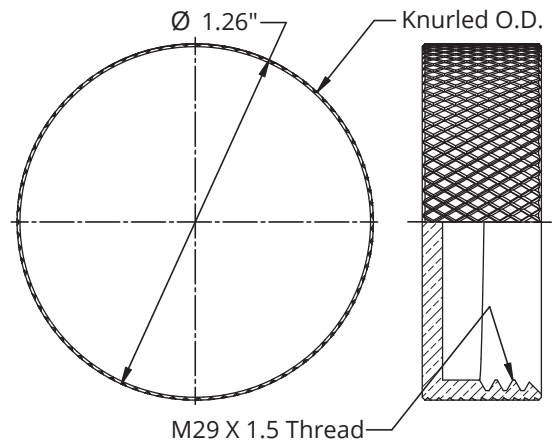


### 0865PT-98 - Replacement Seat Packing



### 0865PT-10 - Vacuum Breaker Cap

- Cap is threaded inside



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# 0865(P)-NL SERIES - NON-FREEZE WALL HYDRANT WITH SELF DRAINING VACUUM BREAKER

Boshart's Non-Freeze Wall Hydrants can be installed through a wall and allow water to drain back out of the valve so freezing will not occur in the winter season. This prevents the need for winterizing and allows outdoor access to water year round.

## FEATURES:

- Integral anti-siphon vacuum breaker to allow air to enter the valve, ensuring the valve drains completely
- Stem comes with a weep hole to allow back pressure relief when water is trying to siphon back into the homes water supply
- Chrome plated no lead brass body, tube and adapter
- Black cast handwheel
- Inlet cartridge has built in spring loaded check valve for back flow prevention
- Sloped flange to support proper drainage, this is necessary for frost-proof performance
- Grey gap spacer wedge to ensure downward tilt

## SPECIFICATION:

- Inlet Connection:
  - Threads conform to ANSI/ASME B1.20.1 Pipe Threads, General Purpose (Inch)
  - Sweat connection conforms to ANSI B16.18 Cast Copper Alloy Solder Joint Pressure Fittings
  - Crimp PEX end conform to ASTM F1807 Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing
- Outlet Connection:
  - ASME B1.20.7 Standard for Garden Hose Coupling Screw Threads (inch)

## RATINGS:

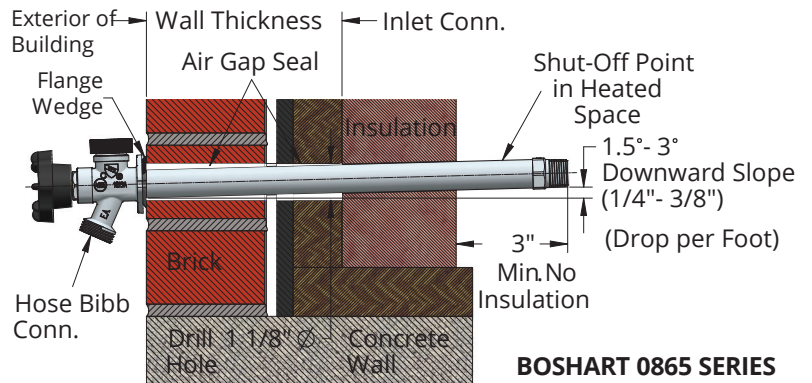
- Max Pressure Rating: 125 PSI
- Max Temperature Rating: 140°F (60°C)

## CERTIFICATION:

- NSF/ANSI Standard 61 Certified (Drinking Water System Components - Health Effects)
- NSF/ANSI Standard 372 Certified (Drinking Water System Components - Lead Content)
- CSA Standard B125.1 Plumbing Fittings Certified
- ASSE Standard 1019 Performance Requirements for Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type Certified
- ASME A112.18.1 Certified Plumbing Supply Fittings



Grey gap spacer wedge can be used to ensure downward tilt.  
"REMOVE HOSE IN FREEZING WEATHER"

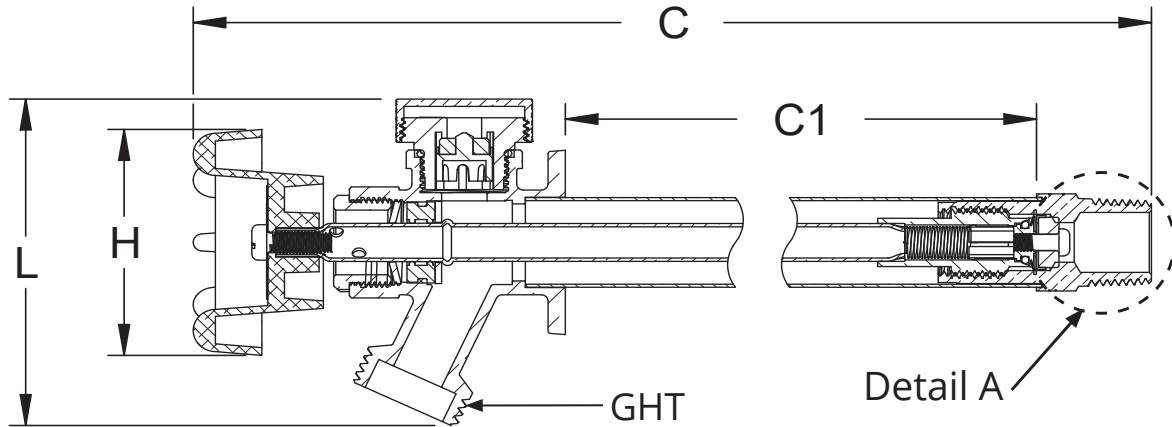
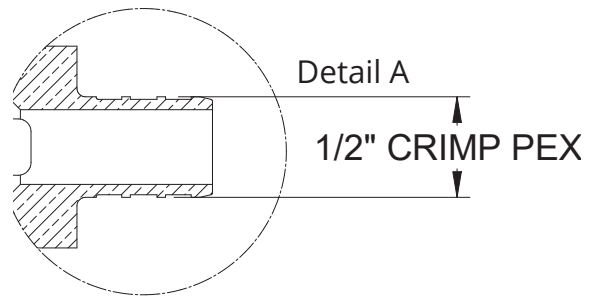
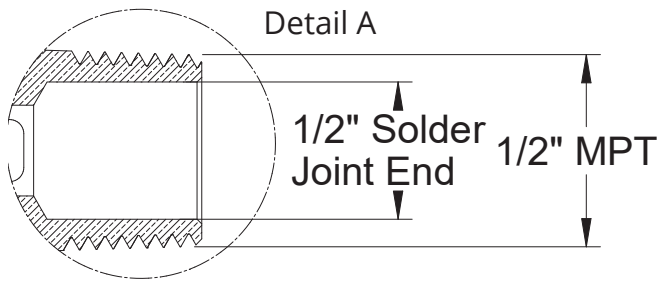


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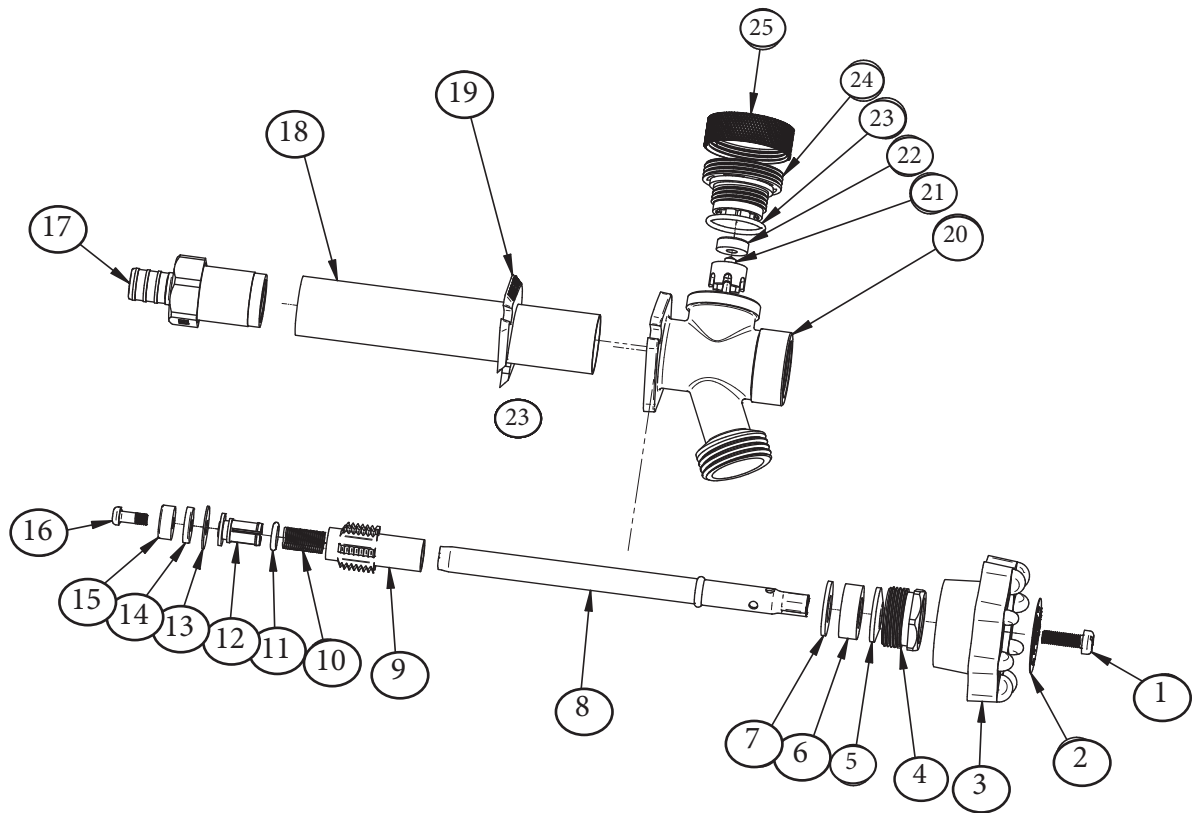
\*\*Short bursts of water can occur from vacuum breaker, but will stop. If it continues to leak, vacuum breaker should be replaced\*\*

DIMENSIONS												
Part No.	Inlet Connection	Size	H		C		C1		L		Weight	
			inches	mm	inches	mm	inches	mm	inches	mm	lbs	grams
0865-040NL	1/2" MPT or Copper	4"	2.20	56.00	8.64	219.50	3.96	100.70	3.07	78.00	1.10	500.00
0865-060NL	1/2" MPT or Copper	6"	2.20	56.00	10.65	270.50	5.97	151.70	3.07	78.00	1.19	540.00
0865-080NL	1/2" MPT or Copper	8"	2.20	56.00	12.66	321.50	7.98	202.70	3.07	78.00	1.26	570.00
0865-100NL	1/2" MPT or Copper	10"	2.20	56.00	14.67	372.50	9.99	253.70	3.07	78.00	1.32	600.00
0865-120NL	1/2" MPT or Copper	12"	2.20	56.00	16.71	424.50	12.00	304.70	3.07	78.00	1.43	650.00
0865-140NL	1/2" MPT or Copper	14"	2.20	56.00	18.72	475.50	14.00	355.70	3.07	78.00	1.52	690.00
PEX Connection												
0865P-040NL	1/2" PEX	4"	2.20	56.00	8.62	219.00	3.96	100.70	3.07	78.00	1.12	510.00
0865P-060NL	1/2" PEX	6"	2.20	56.00	10.63	270.00	5.97	151.70	3.07	78.00	1.15	520.00
0865P-080NL	1/2" PEX	8"	2.20	56.00	12.64	321.00	7.98	202.70	3.07	78.00	1.30	590.00
0865P-100NL	1/2" PEX	10"	2.20	56.00	14.65	372.00	9.99	253.70	3.07	78.00	1.41	640.00
0865P-120NL	1/2" PEX	12"	2.20	56.00	16.69	442.00	12.00	304.70	3.07	78.00	1.52	690.00
0865P-140NL	1/2" PEX	14"	2.20	56.00	18.70	475.00	14.00	355.70	3.07	78.00	1.57	710.00



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MATERIAL LIST		
Part No.	Part Name	Material
1	Handle Screw	C26000 No Lead Brass
2	Name Plate	Aluminium
3	HandWheel	Black Powder Coated Aluminium
4	Stem Packing Nut	Chrome Plated C37700 Brass
5	Stem Packing Washer	SS304 Stainless Steel
6	Stem Packing	NBR (Nitrile Butadiene Rubber)
7	Stem Packing Flat Washer	SS304 Stainless Steel
8	Stem Pipe	C27000 No Lead Brass
9	Stem	C46400 No Lead Brass
10	Spring	SS304 Stainless Steel
11	Spring Seat O-Ring	NBR (Nitrile Butadiene Rubber)
12	Spring Seat	C46400 No Lead Brass

13	Flapper	NBR (Nitrile Butadiene Rubber)
14	Seat Holder	C26000 No Lead Brass
15	Seat Packing	NBR (Nitrile Butadiene Rubber)
16	Seat Screw	C26000 No Lead Brass
17	Nipple	Chrome Plated C46400 No Lead Brass
18	Tube	Chrome Plated C27000 No Lead Brass
19	Flange Wedge / Insert Spacer	POM (Polyoxymethylene)
20	Valve Body	Chrome Plated C46400 No Lead Brass
21	Vacuum Breaker Disk	POM (Polyoxymethylene)
22	Vacuum Breaker Seat	NBR (Nitrile Butadiene Rubber)
23	Vacuum Breaker Body O-Ring	NBR (Nitrile Butadiene Rubber)
24	Vacuum Breaker Body	POM (Polyoxymethylene)
25	Vacuum Breaker Cap	C37700 Brass

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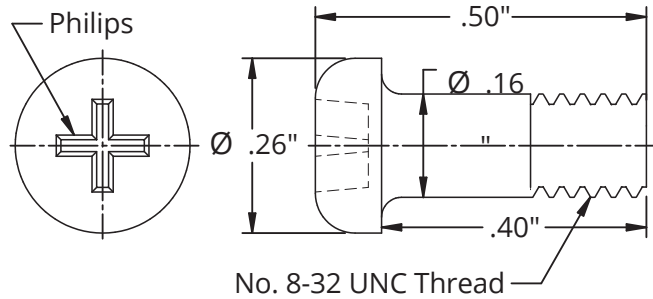


# REPLACEMENT PARTS

REPLACEMENT PARTS		
Part No.	Description	Components
0865PT-99	Replacement Packing Screw	4
0865PT-03	Replacement Handle	1
0865PT-SA04	4" Replacement Stem Assembly	4-16
0865PT-SA06	6" Replacement Stem Assembly	
0865PT-SA08	8" Replacement Stem Assembly	
0865PT-SA10	10" Replacement Stem Assembly	
0865PT-SA12	12" Replacement Stem Assembly	
0865PT-SA14	14" Replacement Stem Assembly	
0865PT-PA	Replacement Plunger Assembly	10 to 16
0865PT-123	Vacuum Breaker Body	21 to 24
0865PT-98	Replacement Seat Packing	15
0865PT-10	Vacuum Breaker Cap	25

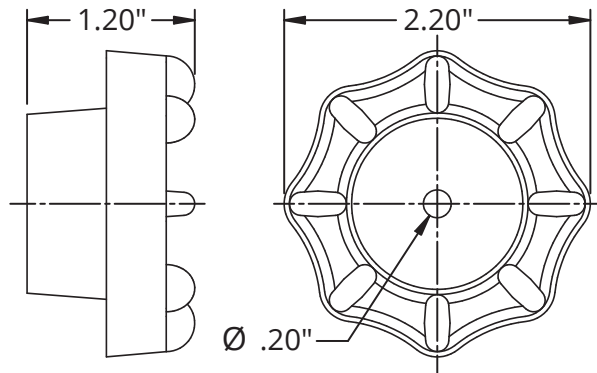
## 0865PT-99 - Replacement Packing Screw

- UNC #8-32



## 0865PT-03 - Replacement Handle

- Name plate and screw not included



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## Determining Stem Length

### 0865PT-SA(xx) - Stem Assembly

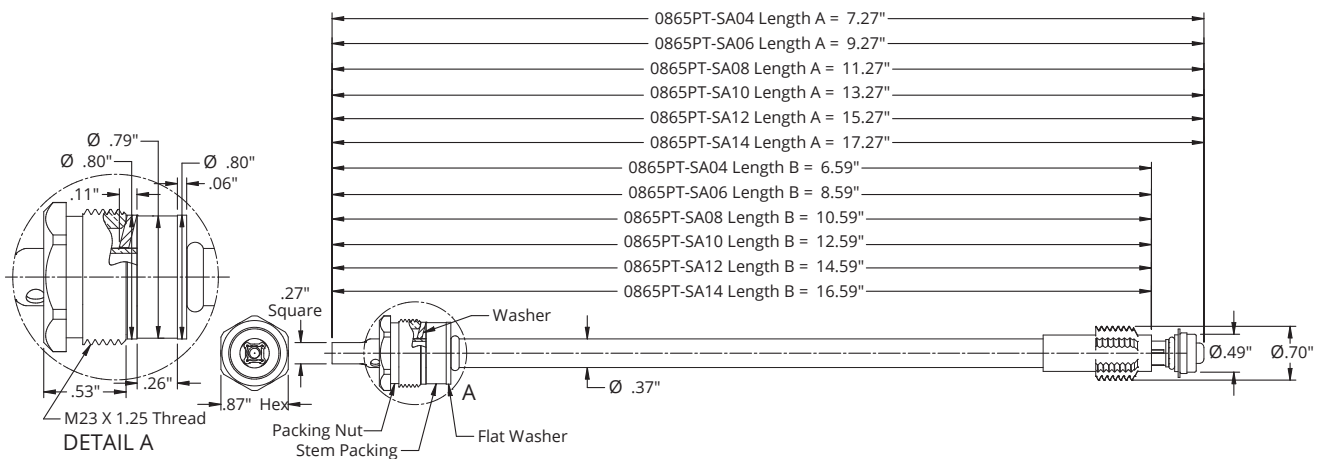
- Contains items 4-16
- Available in 4", 6", 8", 10", 12" and 14" lengths



Measure from just behind the body flange to the hex.

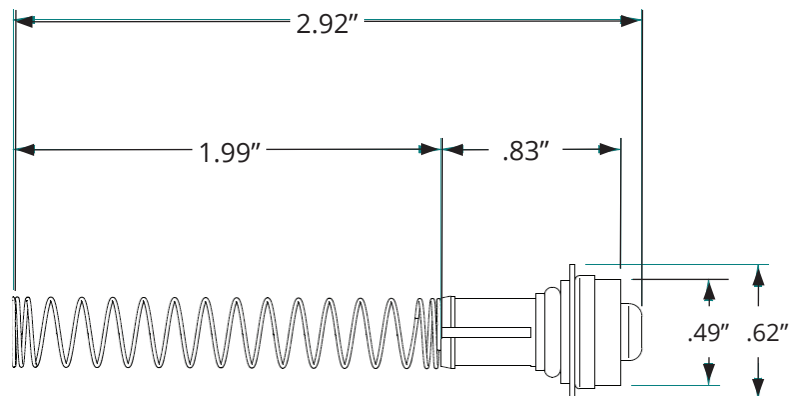
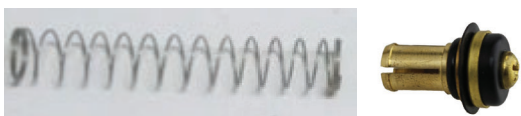


Compress the plunger and measure total length. Subtract 3" to determine size.



### 0865PT-PA - Replacement Plunger Assembly

- Includes spring



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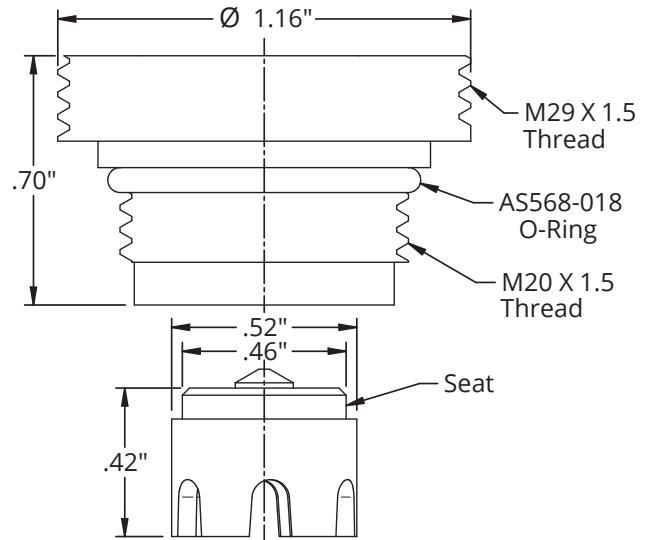
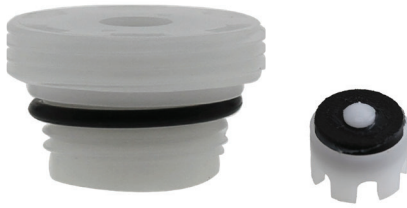
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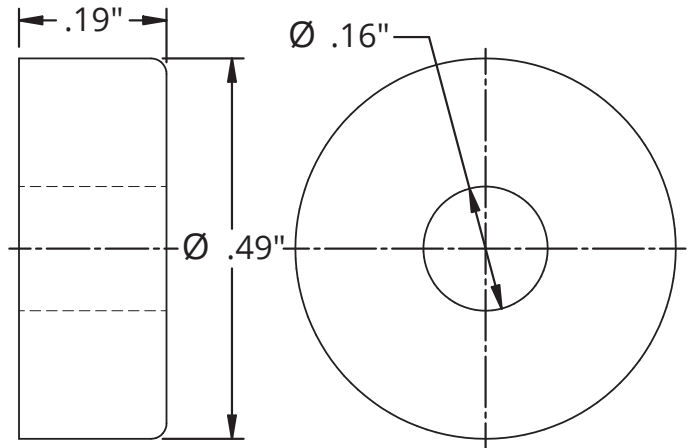


### 0865PT-123 - Vacuum Breaker Body

- Gaskets included

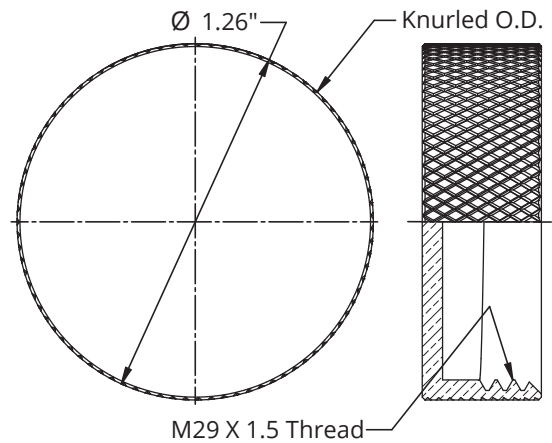


### 0865PT-98 - Replacement Seat Packing



### 0865PT-10 - Vacuum Breaker Cap

- Cap is threaded inside



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# How do you install an 0861/0865 frost-free wall hydrant?

Before getting started, it is extremely important to make sure you have an appropriate length of wall hydrant for your wall thickness. The inlet connection MUST extend through the wall and any insulation so that the connection is inside the warm space at a position that is easily accessible to make the water line connection.

**Step # 1-** Drill a 1-1/8" diameter hole on a 5° upward angle from the outside to ensure you have sufficient downward slope to the outlet for drainage. Drill through the foundation wall or the floor joist band. Then insert the faucet tube from the outside. **WARNING:** Do not drill the hole horizontally. A 1-1/8" diameter hole will only allow the tube to be installed at approximately up to 1.5°. It does not have enough play to properly slope the wall hydrant.

**Step #2 -** Position the faucet so that the faucet's spout is pointing directly downward. To check the spout's position from the inside of the building, place the "TOP" marking on the hex by the inlet connection pointing up.

**Step #3-** Place the angled, wedge-shaped, plastic flange with the thick side upwards to ensure the hydrant tube has a minimum of a 5° angle downwards to the spout to insure proper drainage. Then, secure the wall faucet flange on to the wall with two #8 or #10 wood or masonry screws depending on your construction. Failure to ensure the 5° angle will result in trapped water which will cause the wall faucet to freeze and fail, damaging internal components or in the worst-case scenario, burst the tube and potentially cause water damage.

**Step #4 -** If you are using the internal solder (sweat) connection, the stem assembly MUST be removed to prevent damage to the rubber seals due to excessive heat. To remove the stem assembly, unscrew the hexagon nut behind the hand wheel and then pull the valve stem straight out of the tube by pulling on the handwheel.

**Step #5 -** Fill the free space (air gap) around the tube with caulking to seal the air gap.

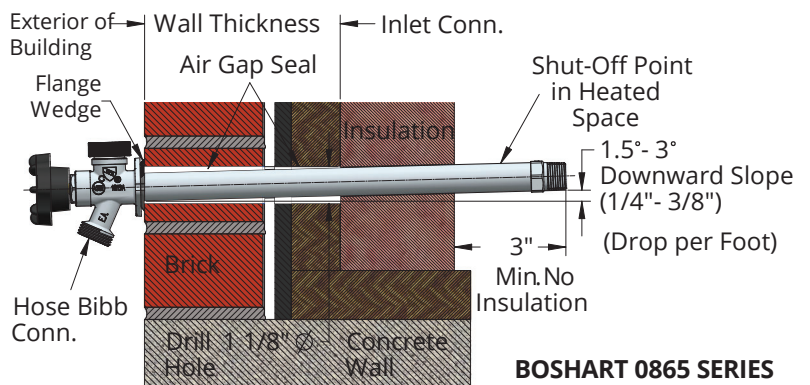
**Step #6 -** When insulating, DO NOT insulate beyond 3" from the inlet connection. The 3" section of the tube from the inlet end must not be insulated from the warmth of the building to ensure it does not freeze. Insulating too close to or over the inlet connection may cause the wall faucet to freeze and fail, damaging internal components, or in worst-case scenario, burst the tube and potentially cause water damage.

## IMPORTANT WARNINGS:

**#1 - Winterization:** When the cold weather arrives, it is crucial to remove the hose to ensure proper drainage. Failure to remove the hose WILL cause the wall faucet to freeze and fail, damaging internal components. It is not a product defect! Turn the handle to the closed position (clockwise) and always detach the hose from the spout if there is any chance of frost. Damage due to freezing will void warranty.

**#2 - Keep Inlet Heated:** Wall hydrants are frost-proof because the water is shut off inside the heated portion of the building. If the building is left unheated for an extended period, the water supply lines must be drained and all plumbing fixtures and components properly winterized to prevent freezing.

For troubleshooting and selection guide, visit our Knowledge Base.



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