

## NP SERIES SANITARY

BELOW GROUND FREEZE RESISTANT  
NON-POLLUTABLE VALVE SYSTEM

### STANDARD FEATURES

- Non-Pollutable Freeze Resistant, Below Ground Valve System
- Sanitary, will not permit stored or contaminated water to re-enter the drinking water or bubbler
- Permits year-round usage, even when outside temperature drops below freezing
- Meets most state requirements
- Pneumatic Actuation
- Operates potable in all ground environments
- Above grade serviceable
- No electricity or air connection required

### PRODUCT OVERVIEW

Outdoor Drinking Fountain fixtures equipped for freeze resistance incorporate below grade non-freeze valve assemblies which drain residual water out through a “weep hole”, which is located underground, and typically buried within a gravel trench. Although this system is common and successfully used, there is concern in certain jurisdictions that this allows possible cross-connection contamination.

As a result many states have determined that bacteria can migrate from the soil, through the “weep hole” and potentially contaminate the potable water supply; Citing concerns that as the water table varies, ground water from the fixture drain assembly can enter in through the “weep hole” and exit the Bubbler when the fountain is activated for drinking. Therefore, in an effort to protect the public and the potable water supply certain states have banned the use of “weep hole” style Drinking Fountains and Yard Hydrants and require Sanitary (Non-Pollutable) Outdoor Freeze Resistant fixture designs.

**Important:** For the -NP3 and -NP4 Series there are (2) independent below grade PVC “Y” Tube Assemblies.

#### NOTE:

-NP Series Assemblies are only available for applicable fixtures. Verify availability within fixture submittals.



Model -NP1 Shown

### SUGGESTED SPECIFICATIONS

Model NP [specify model] Sanitary Non-Pollutable Freeze Resistant Valve System shall provide below ground system for use with specially equipped outdoor Pedestal Mounted Fountains allowing the Fountain to perform year-round. NP Mechanism shall include piston and cylinder, without valve drain down, which are operated by water supply pressure and evacuate residual water above ground into Fountain drain pipe to eliminate potential for cross contamination of the potable water supply. A porous gravel fill shall be required to allow Fountain waste water to permeate and drain back into the ground unless those instances where connected to Sewer Waste Line. Unit shall adhere to NSF/ANSI 61, Section 9.

#### MODEL:

(Must Specify)

- ☐ NP-1 Underground Non-Pollutable Freeze Resistant Single Valve Sanitary System
- ☐ NP-2 Underground Non-Pollutable Freeze Resistant Dual Valve Sanitary System
- ☐ NP-3 Underground Non-Pollutable Freeze Resistant Three Valve Sanitary System - (2) PVC “Y” Assys.
- ☐ NP-4 Underground Non-Pollutable Freeze Resistant Four Valve Sanitary System - (2) PVC “Y” Assys.

#### ACCESSORIES

(additional costs may be incurred)

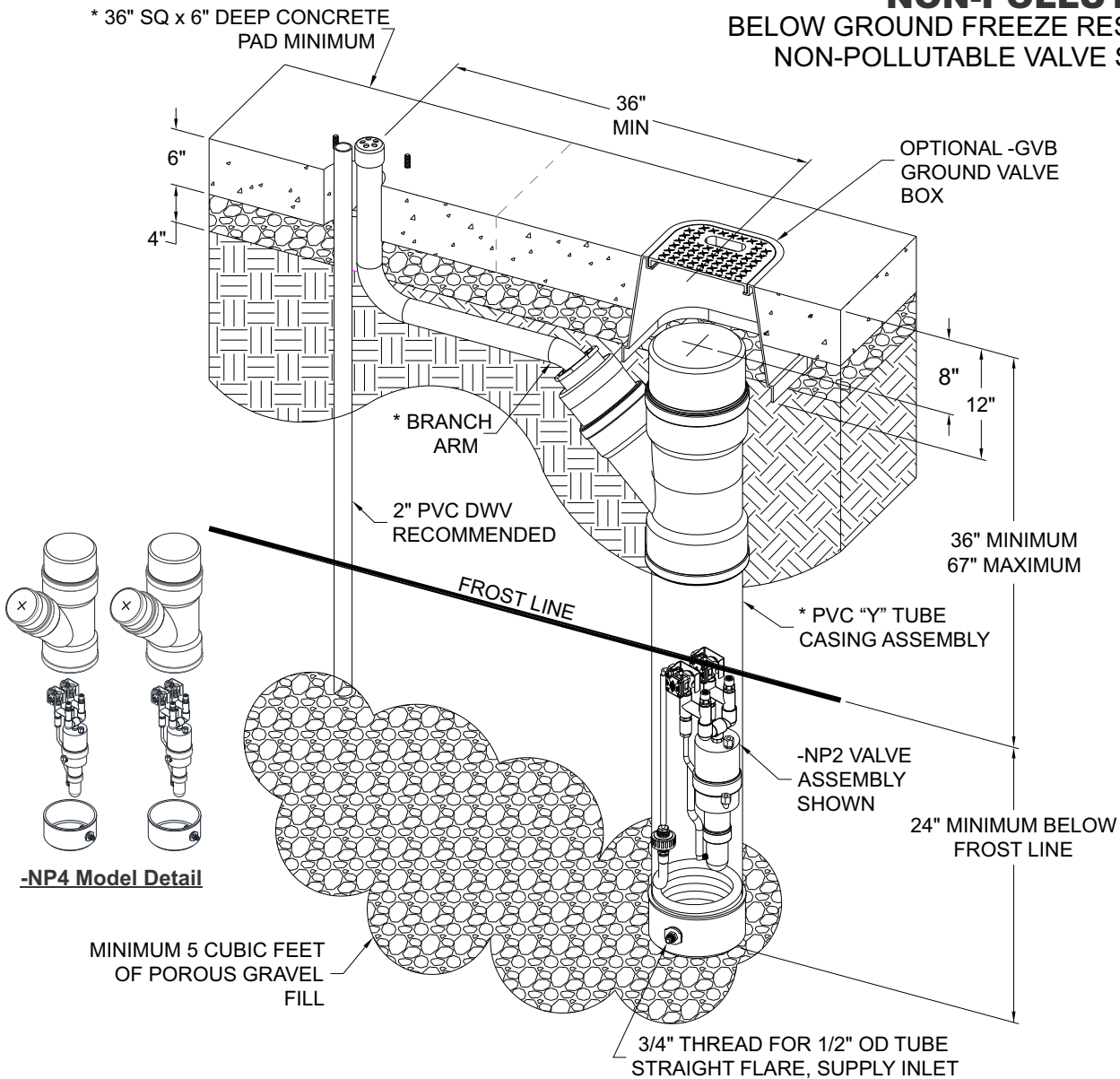
- ☐ GVB-1 Ground Valve Box <sup>1</sup>

#### NOTES:

1- Refer to Supplemental Submittal Sheet for details.

WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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**\* Note: -NP3 and -NP4 models receive (2) PVC "Y" Tube Casing Assemblies installed separately (not pictured) which will affect installation requirements.**

**IMPORTANT: Dimensions are shown for reference only. Refer to product Installation Manual for complete details prior to Rough-in.**

<b>SELECTION SUMMARY &amp; APPROVAL FOR MANUFACTURING</b>	Model Number & Options _____	Quantity _____	<p>All dimensions are subject to manufactures tolerance of plus or minus 1/2" nominal and subject to change without notice. Murdock assumes no responsibility for use of void or superseded data. Dimensions may change with the addition of optional accessories. Murdock Mfg.™, Member of Morris Group International™. Please visit <a href="http://www.murdockmfg.com">www.murdockmfg.com</a> for most current specifications.</p>
	Company _____		
	Contact _____	Title _____	
	Signature (Approval for Manufacturing) _____	Date _____	

## -NP SANITARY FREEZE RESISTANT VALVE DETAILS

### OPERATION:

The NP design includes a Piston and Cylinder arrangement that is operated by the pressure of the water supply.

When the drinking fountain is turned on, fresh water is delivered to the Bubbler. At the same time, supply pressure forces the stored water, *from the previous cycle*, to be expelled through an air gap, which is above ground and down the Fountain Bowl Drain Pipe.

When the drinking fountain is turned off, the Spring on top of the Piston Mechanism moves the Piston down permitting the water in the Bubbler line to drain back into the Canister for storage, remaining frost proof, until the start of another cycle.

**FEATURES:** The drinking water stream does not fluctuate during the filling or emptying of the cylinder. Cycle time ensures the drinking fountain is frost free in seconds. Water waste is also minimal. Since no jet pump or venturi is used, only the water stored in the cylinder and drained from the fountain delivery line, is wasted out of the drain - Either into porous gravel or via connection to a Sewer Line. The amount of water wasted to the drain for each cycle is 7 ounces – less than one cup.

## -NP SERIES VALVE SCHEMATIC

