



DRAWING NUMBER
S5904

SIZE
A

SCALE:
NONE

DATE:
5-12-04

APPROVED BY:
JM

CHECKED BY:
JM

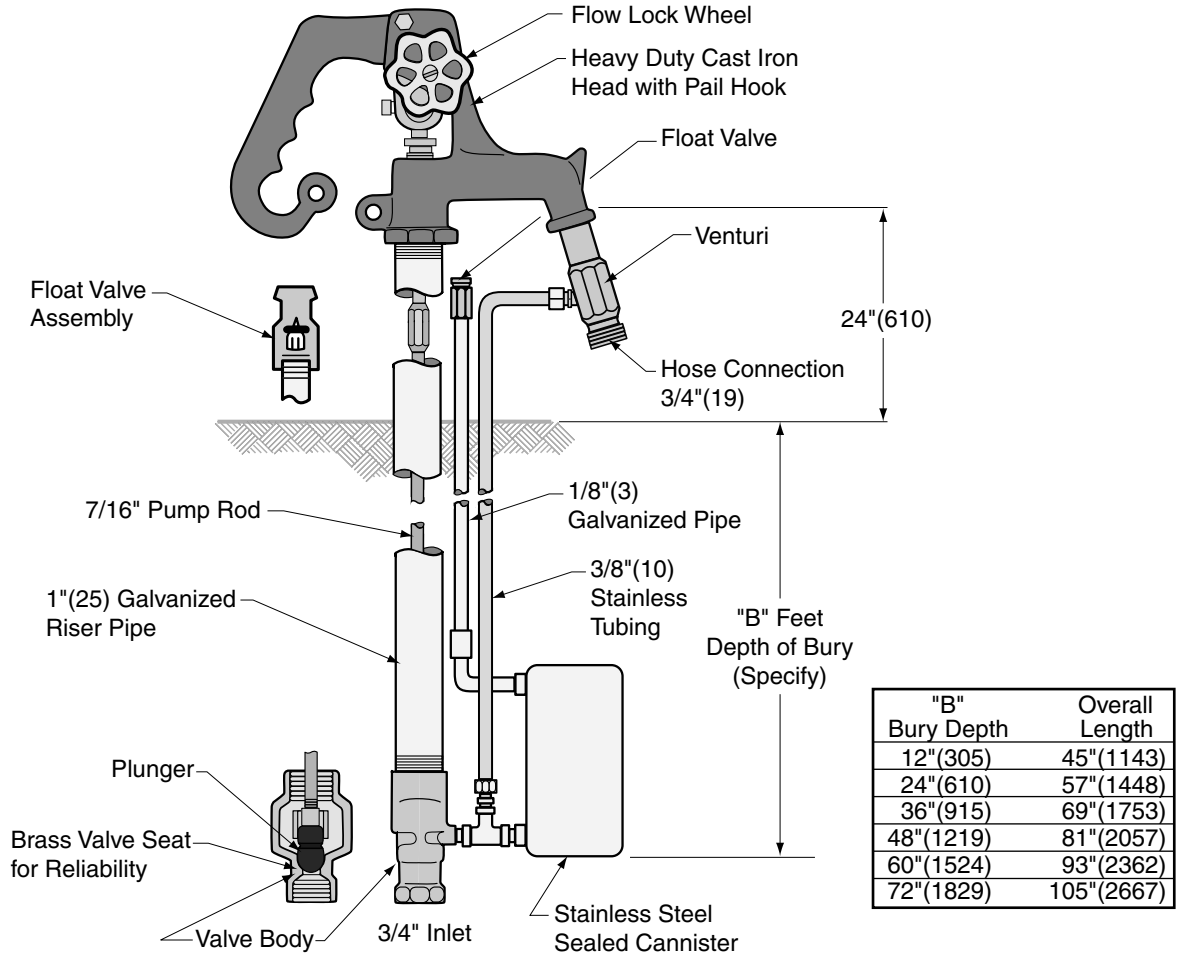
DRAWN BY:
TBW

FIGURE NUMBER
5904

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

NON-FREEZE SANITARY POST/YARD HYDRANT

FUNCTION: Used where an above ground water outlet is required in areas which are subject to freezing temperatures and where water is not allowed to drain from the casing into the ground. Freezing is prevented by burying the valve housing below the frost line and draining water from the casing after shut-off into the sealed canister. The hydrant is engineered to be fully self contained and easily serviced in the field.



REGULARLY FURNISHED:
 Non-Freeze Post Hydrant with Galvanized Casing Adjustable Flow Wheel Lock Handle, Stainless Steel Underground Cannister and Nozzle with Venturi Adapter.

VARIATIONS:
 Vacuum Breaker -H

NOTE: Dimensions shown in parentheses are in millimeters.

NOTES:

1. Addition of vacuum breaker will not allow draining of the casing. Smith is not responsible for any casings that burst or related incidents if the hydrant is supplied with a vacuum breaker.
2. Post/yard hydrants are not provided for human consumption. Therefore this hydrant should be allowed to discharge for a minimum of two (2) minutes before being used for drinking or related purposes.
3. Do not leave hose attached in freezing temperatures as it may prevent proper drainage of the shut-off valve/casing.

(See back of sheet for parts list)

REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
A	06/01/09	Removed 84" & 96" depths	JJ	JM			5904



DRAWING NUMBER
S5904BS

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FIGURE NUMBER
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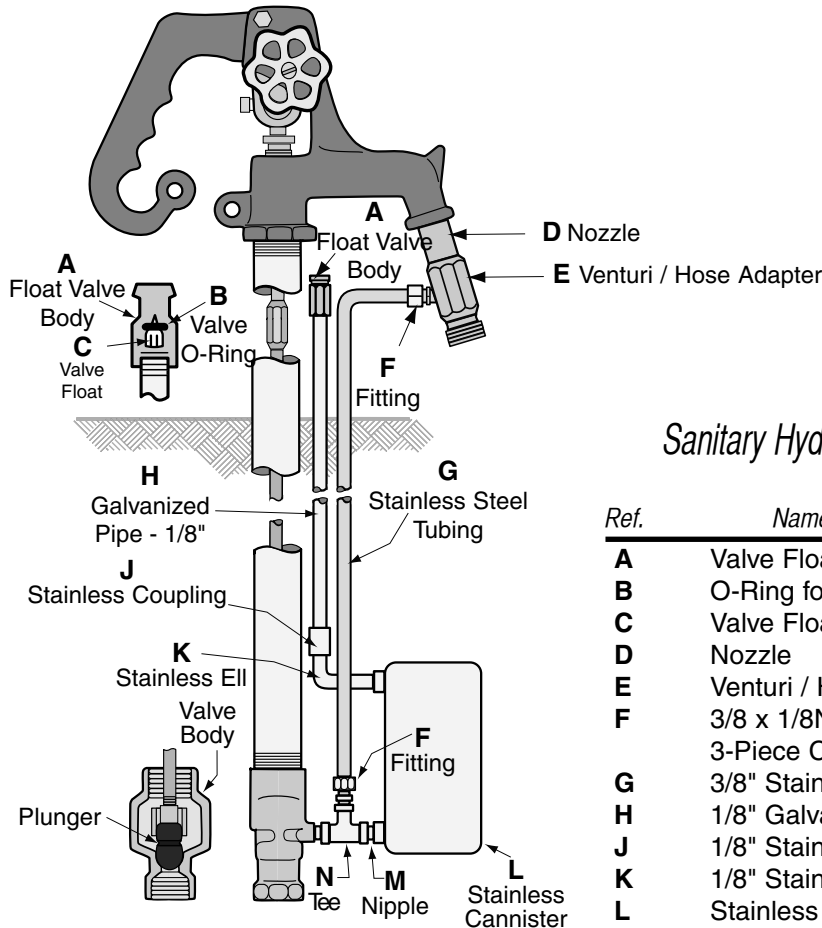
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

NON-FREEZE SANITARY POST/YARD HYDRANT

OPERATION: The hydrant incorporates a nozzle-venturi adaptor (located above ground for serviceability), and a stainless steel underground cannister. When the hydrant is turned off, the plunger seals against the valve seat and stops the flow. The remaining water in the casing (riser) drains back into the cannister which is buried below the frost level. When the hydrant is activated, flow through the nozzle creates a vacuum which empties the cannister through the venturi adaptor at the nozzle. Since the hydrant drains into a sealed cannister and not into the ground through a drainage outlet, the water never comes in contact with the soil. This avoids possible contamination of the water supply.

SPECIAL INSTRUCTIONS: The brass packing nut located on the head of the sanitary post/yard hydrant has been factory adjusted. If leakage should occur upon installation or after usage, it may be necessary to slightly tighten the brass packing nut.

"CAUTION": Do not overtighten the brass packing nut. Damage will occur to the inner O-rings. Do not leave hose attached in freezing temperatures as it may prevent proper drainage of the shut-off valve. To prevent unauthorized use, the handle can be locked by inserting padlock into holes provided in handle and head.



Sanitary Hydrant Parts

Ref.	Name of Part
A	Valve Float Body
B	O-Ring for Valve
C	Valve Float
D	Nozzle
E	Venturi / Hose Adapter
F	3/8 x 1/8NPT 3-Piece Compression Fitting
G	3/8" Stainless Steel Tubing
H	1/8" Galvanized Pipe
J	1/8" Stainless Steel Coupling
K	1/8" Stainless Steel Ell
L	Stainless Steel Cannister
M	1/8" Stainless Steel Nipple
N	1/8" Stainless Steel Tee

REV.	DATE	DESCRIPTION	BY	CKD. BY

WEIGHT POUNDS	VOLUME CUBIC FEET
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