



J

DRAWING NUMBER
S5904

SIZE
A

SCALE:
NONE

DATE:
5-12-04

APPROVED BY:
JM

CHECKED BY:
JM

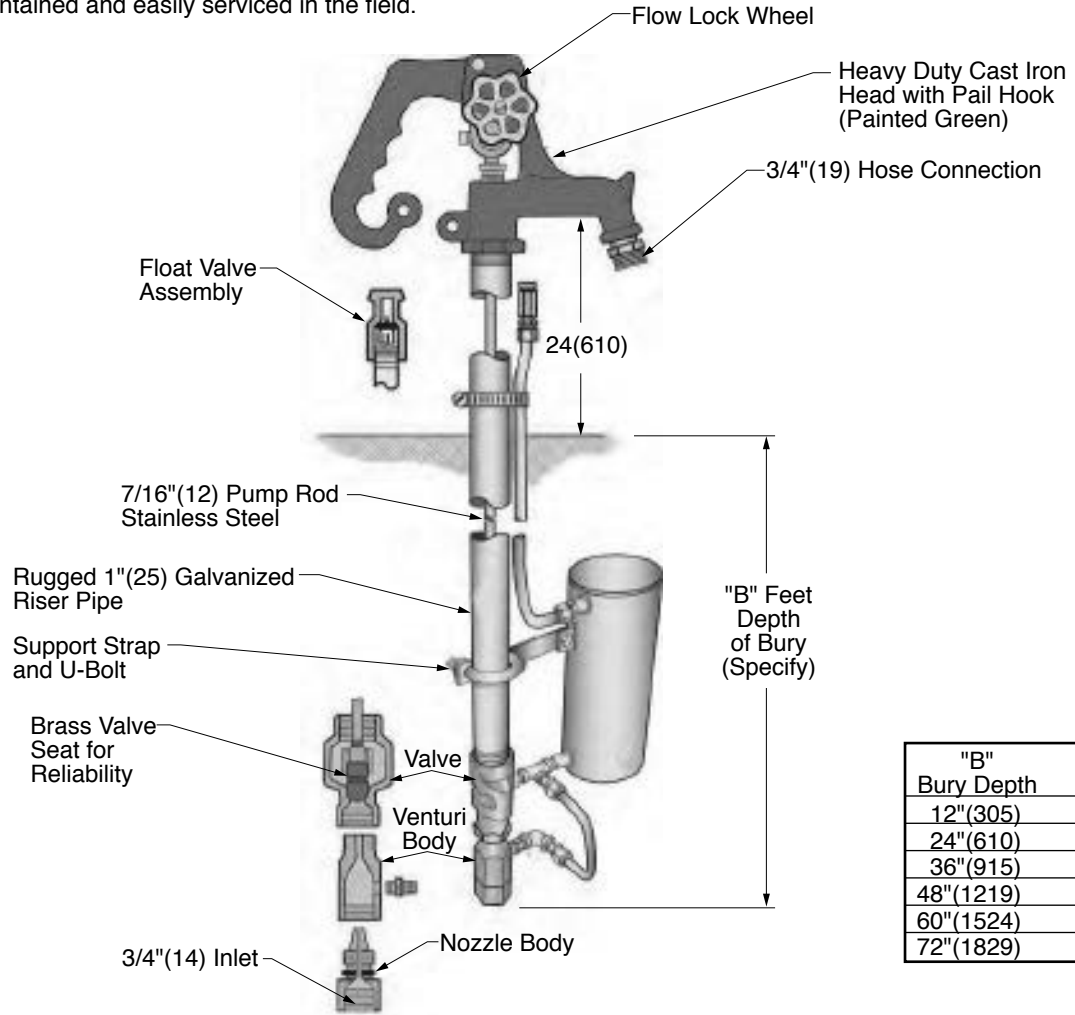
DRAWN BY:
TBW

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WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA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



"B" Bury Depth	Overall Length
12"(305)	45"(1143)
24"(610)	57"(1448)
36"(915)	69"(1753)
48"(1219)	81"(2057)
60"(1524)	93"(2362)
72"(1829)	105"(2667)

REGULARLY FURNISHED:

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

VARIATIONS:

Vacuum Breaker -H

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. The AB1953, California Lead Law, and NSF/ANSI Standard 61-2008 - Drinking Water System Components are not applicable to Jay R. Smith hydrants as they do not convey/dispense water for human consumption through drinking or cooking.
 3. Do not leave hose attached in freezing temperatures as it may prevent proper drainage of the shut-off valve/casing.
 4. Dimensions shown in parentheses are in millimeters.
 5. **FOR IRRIGATION PURPOSES ONLY.**
- (See back of sheet for parts list)

REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
J	1-8-15	Revised Callout	TBW	CL			5904
H	12-18-14	Revised Text	TBW	CL			
G	4-16-14	Revised Callout	TBW	CL			
F	2-5-13	Revised Notes	TBW	CL			

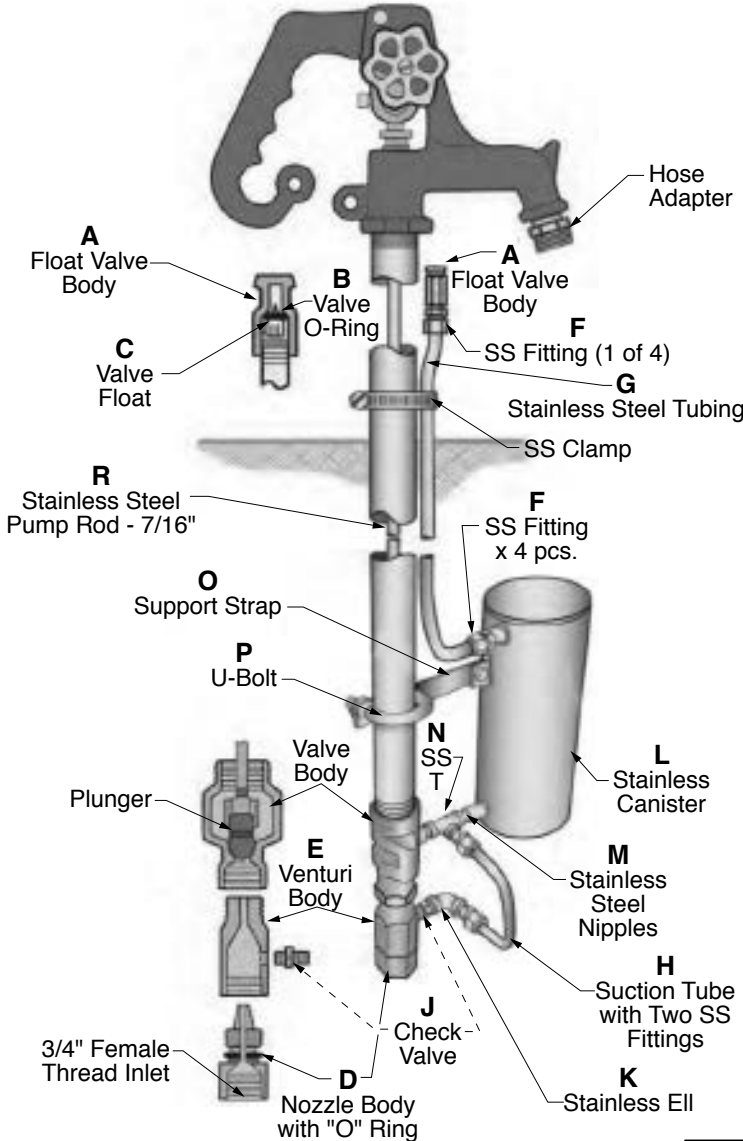
NON-FREEZE SANITARY POST/YARD HYDRANT

OPERATION: The hydrant incorporates a nozzle-venturi adaptor (located above ground for serviceability), and a stainless steel underground canister. 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 canister which is buried below the frost level. When the hydrant is activated, flow through the nozzle creates a vacuum which empties the canister through the venturi adapter at the nozzle. Upon activating, hydrant should be discharged fully open a minimum of 30 seconds. Since the hydrant drains into a sealed canister 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. Minimum operating line pressure should be 25 psi for proper operation.

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 riser pipe to the canister. To prevent unauthorized use, the handle can be locked by inserting padlock into holes provided in handle and head.

DRAWING NUMBER: S5904BS
 SIZE: A
 SCALE: NONE
 DATE: 5-12-04
 APPROVED BY: JM
 CHECKED BY: JM
 DRAWN BY: TBW
 FIGURE NUMBER: 5904BS
 DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE
 WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA



Sanitary Yard Hydrant Parts

Ref.	Name of Part
A	Valve Float Body
B	O-Ring for Valve
C	Valve Float
D	Nozzle
E	Venturi
F	3/8 x 1/8NPT x 4 Fittings 3-Pc. Compression Fitting
G	3/8" Stainless Steel Tubing
R	7/16" Stainless Steel pump Rod
H	Suction Tube
J	Check Valve
K	1/8" Stainless Steel Ell
L	Stainless Steel Canister
M	1/8" Stainless Steel Nipple
N	1/8" Stainless Steel Tee
O	Support Strap
P	U-Bolt

REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER 5904BS
D C B A	2-11-15 12-18-14 9-10-13 6-8-12	Revised Operation Revised Text Rev. Instructions, Hydrant Parts Rev. Drawing, Table	TBW TBW TBW TBW	CL CL CL CL			