

ENGINEERING COMMUNIQUÉ

JAY R. SMITH MFG. CO.® ♦ AUGUST, 2014 ♦ VOLUME 4-ISSUE 6



From: THE SMITH ENGINEERING GROUP

SUBJECT: 5903 & 5906 HYDRANT

Please see the attached isometric views of figure numbers 5906 and 5903 roof hydrants.

The 5903 sanitary hydrant requires a split under deck clamp to allow the unit to be field assembled without removing the stainless steel tank. This is much simpler than removing and reinstalling the tank.

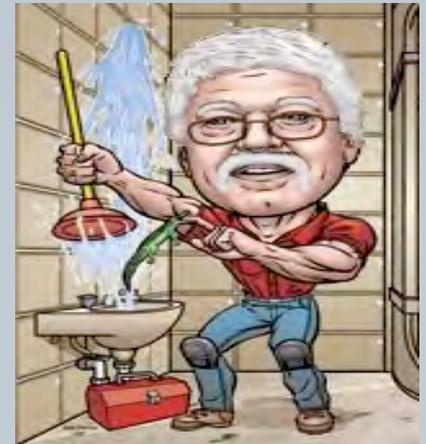
The 5906 under deck clamp is not split as it can be passed over the inlet valve.

The 5903BS submittal shows the Recommended Deck Opening for the Sanitary Hydrant, installation.

The 5903 deck flange seals (Qty. 2) have an extra, small hole for the stainless tank vent tube. This hole in the deck flange seals is not present without the tube as with the 5906.

Removal of the hydrant head or tail piece is not required and if done, may require readjustment of the operating rod and valve.

Also, attached are instructions on how to position the roof hydrant when installed on a metal deck roof. Metal roof decking shown is for illustration only as types of metal roof decking varies in style and shape.



FIRE RATING OF CAST IRON DRAINS:

Recently, there have been requests for the fire rating for cast iron drains. The drains are produced from cast iron which is considered a natural fire resistive material. The melting point for cast iron is approximately 2,200 degrees Fahrenheit which far exceeds the maximum temperature ratings of most construction materials. Cast iron is classified a non-combustible material and has outstanding resistance to deformation, the ability to withstand extreme temperatures and does not contribute to the spreading of flames. Therefore, a specific fire rating for the drains is not pertinent. The Cast Iron Soil Pipe Institute [CISPI] concurs with this statement regarding cast iron pipe, fittings and related drainage products. The greater concern should be the piping material connecting to the drain when using material other than cast iron.

MEMBER OF



MORRIS GROUP
INTERNATIONAL

**COMPARISON OF THE STANDARD
AND SANITARY ROOF HYDRANTS**



FIG. NO. 5906

FIG. 5903. NOTE THE CLAMPING PIPE AND THE STEEL ANGLES, ARE ALWAYS ON THE SAME SIDE OF THE ROUND UNDER-DECK CLAMP PLATE.

FOR THE FIG. 5903, THE UNDER-DECK CLAMP IS SPLIT SO THAT IT CAN BE ASSEMBLED IN THE FIELD WITHOUT REMOVING THE STAINLESS TANK.

FIG. 5903. NOTE THE EXTRA HOLE FOR THE SMALL VENT TUBE. THIS IS NOT PRESENT ON THE 5906.

FOR THE FIG. 5906, THE UNDER-DECK CLAMP IS NOT SPLIT AS IT CAN BE PASSED OVER THE INLET VALVE.

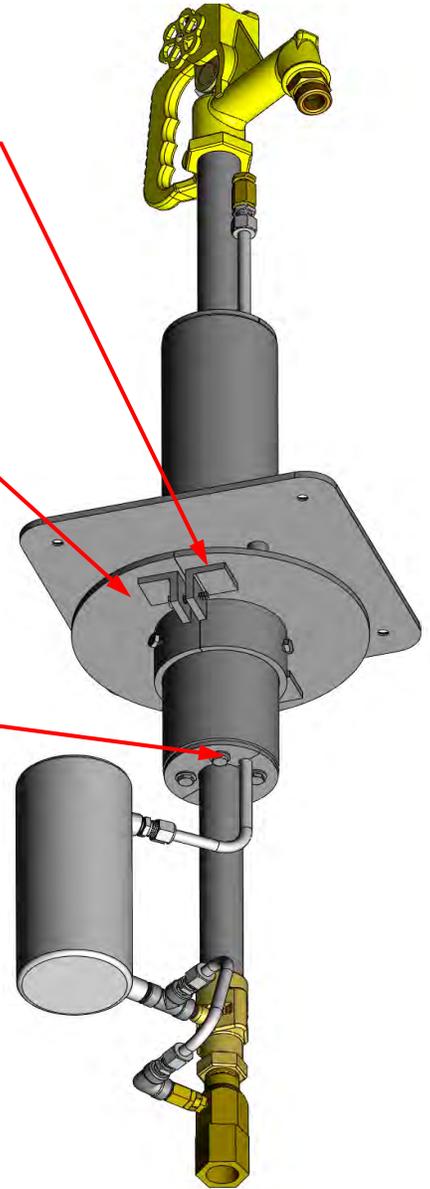


FIG. NO. 5903

**RE-POSITIONING OF THE SANITARY ROOF
HYDRANT OVER THE SEMI-OVAL SHAPED
DECK OPENING**

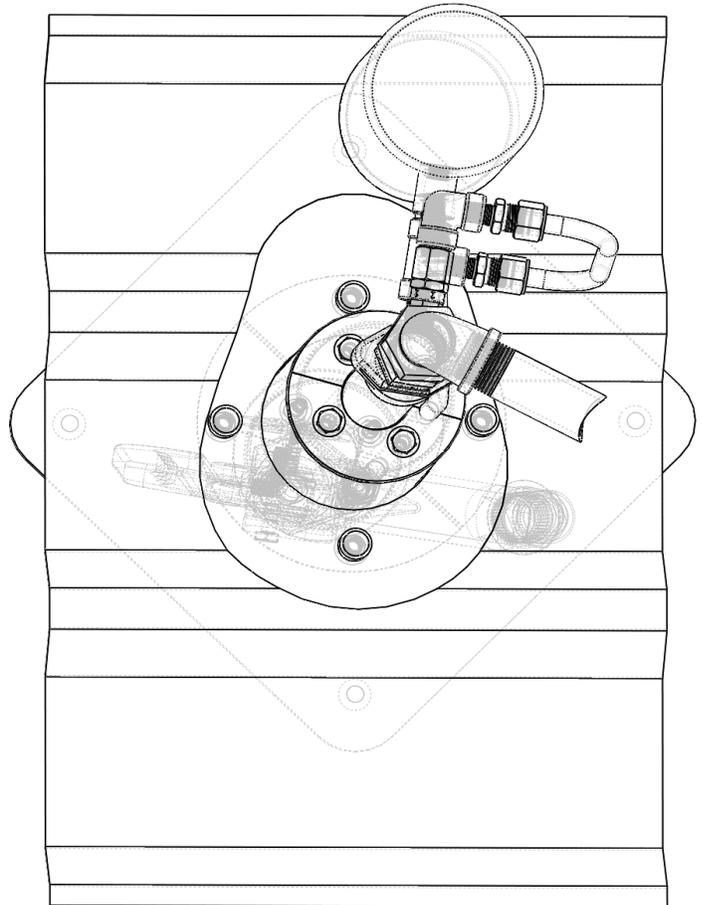
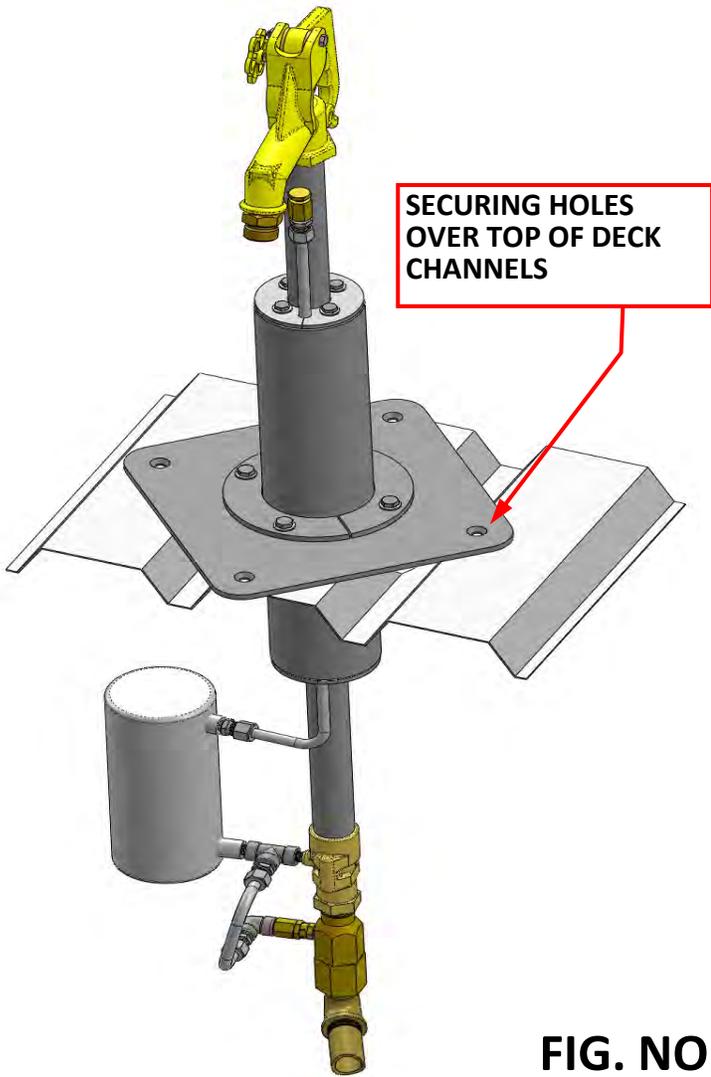
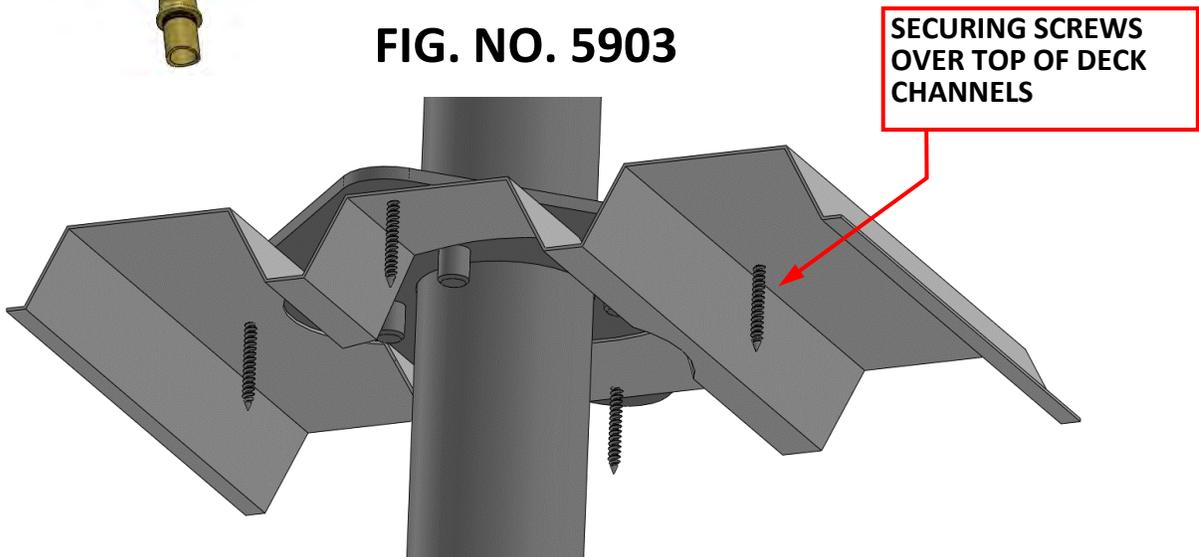


FIG. NO. 5903



B



JAY R. SMITH MFG. CO.[®]

MEMBER OF MORRIS GROUP INTERNATIONAL
POST OFFICE BOX 3237
MONTGOMERY, ALABAMA 36109-0237 (USA)
TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com



MEMBER OF:

LOCATION

DRAWING NUMBER
s5903

SIZE
A

SCALE:
NONE

DATE:
5-17-12

APPROVED BY:
CR

CHECKED BY:
CL

DRAWN BY:
CL

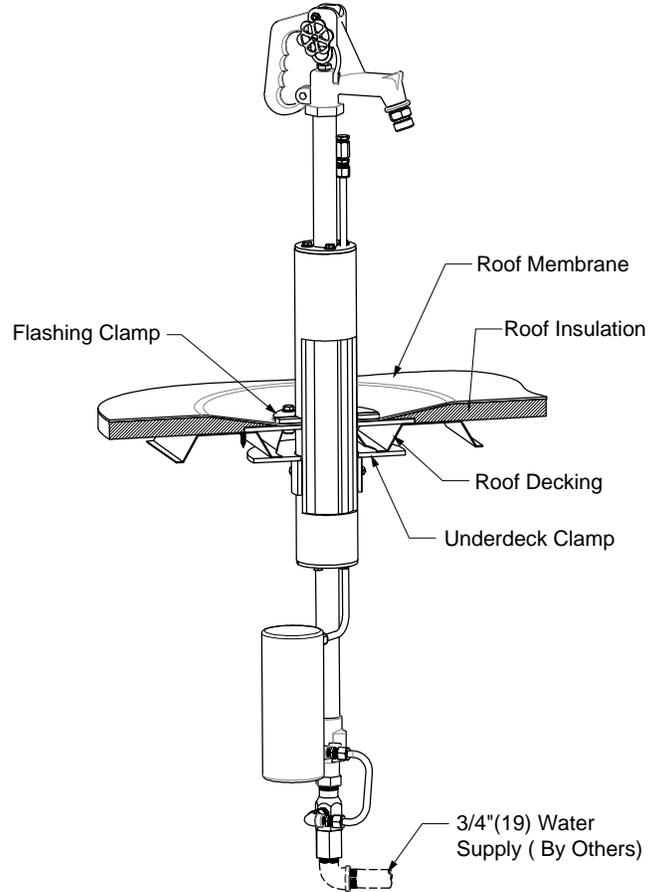
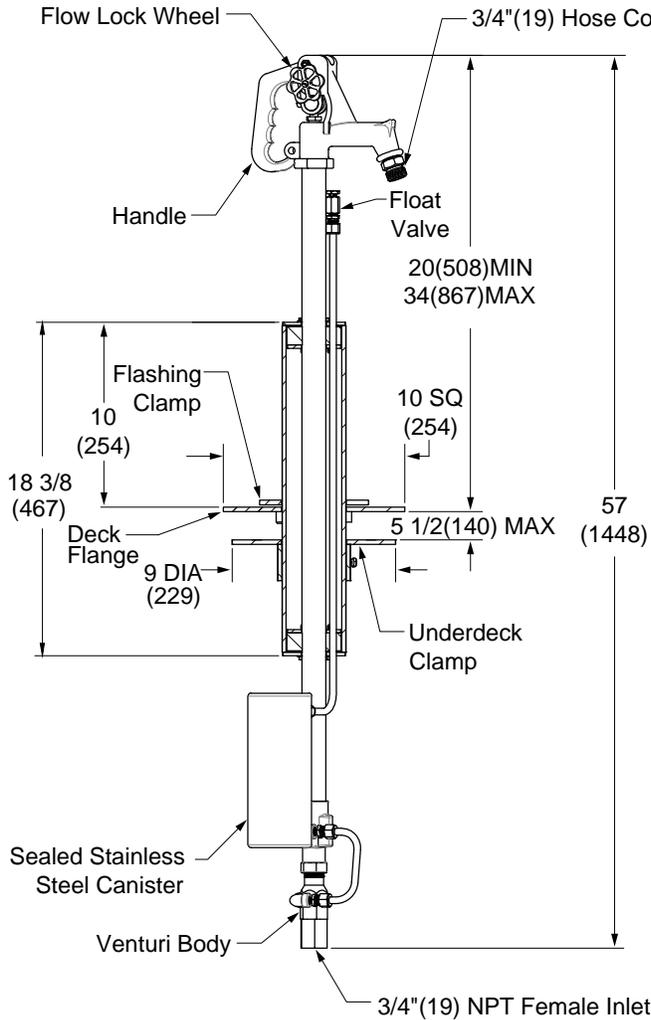
5903

FIGURE NUMBER

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

NON-FREEZE SANITARY ROOF HYDRANT

FUNCTION: Used on roofs where water is required for window washing, cleaning of condenser coils, cooling towers and other types of roof equipment. Freezing is prevented by the valve housing being located below the roof in a heated or insulated area. The hydrant is engineered to be fully self contained by draining the water from casing after shut-off into the sealed canister.



Installation Illustration
(For Illustration Purpose Only)

REGULARLY FURNISHED:

Non-Freeze Sanitary (Self Contained) Roof Hydrant with Galvanized Casing, Adjustable Flow Wheel Lock Handle, Sealed Stainless Steel Canister, Venturi and Roof Mount Assembly.

VARIATIONS:

Vacuum Breaker -H

NOTES:

1. Addition of vacuum breaker will not allow draining of the hydrant 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 convey/dispense water for human consumption through drinking or cooking.
3. Do not leave a hose attached in freezing temperatures as it may prevent proper drainage of the casing.
4. Dimensions shown in parentheses are in millimeters.
5. **FOR IRRIGATION PURPOSES ONLY.**

REV.	DATE	DESCRIPTION	BY	CKD. BY
B	2-5-13	Revised Notes	TBW	CL
A	7-18-12	Added Dim	TBW	CL

WEIGHT POUNDS	VOLUME CUBIC FEET

FIGURE NUMBER
5903

B



JAY R. SMITH MFG. CO.®

MEMBER OF MORRIS GROUP INTERNATIONAL
POST OFFICE BOX 3237
MONTGOMERY, ALABAMA 36109-0237 (USA)
TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com



MEMBER OF:



LOCATION

DRAWING NUMBER
s5903 Back Sheet

SIZE
A

SCALE:
NONE

DATE:
5-17-12

APPROVED BY:
CR

CHECKED BY:
CL

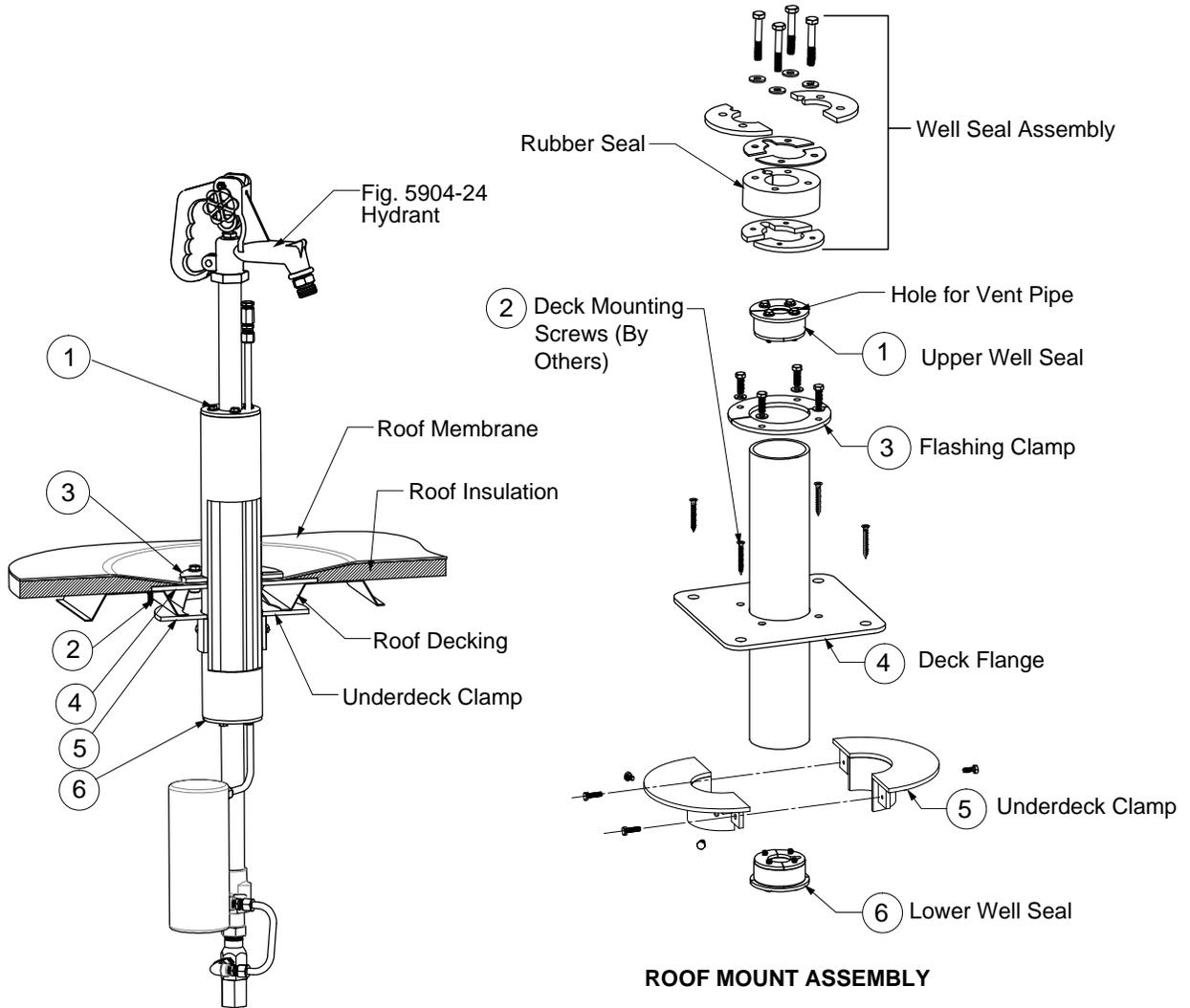
DRAWN BY:
CL

5903BS

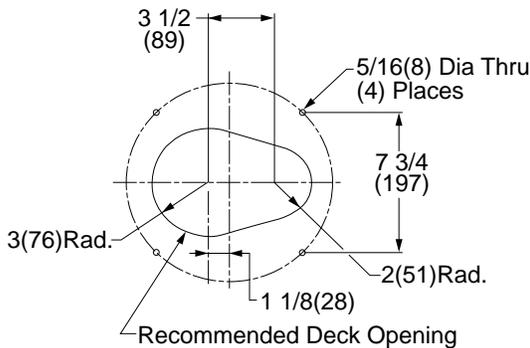
FIGURE NUMBER

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

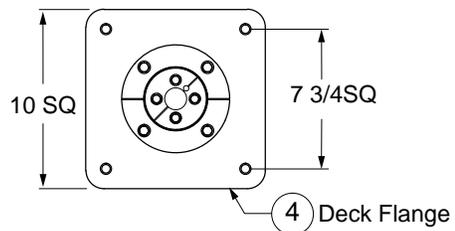
NON-FREEZE SANITARY ROOF HYDRANT



Installation Illustration
(For Illustration Purpose Only)



ROOF MOUNT ASSEMBLY



NOTE: Fig.5903 hydrant is comprised of a 5904-24 hydrant and roof mount assembly. For hydrant part information reference the 5904 submittal.

REV.	DATE	DESCRIPTION	BY	CKD. BY
B A	4-30-13 9-20-12	Revised Underdeck Clamp Added Rec. Deck Opening	TBW TBW	CL CL

WEIGHT
POUNDS

VOLUME
CUBIC FEET

FIGURE NUMBER
5903BS

G



JAY R. SMITH MFG. CO.
 MEMBER OF MORRIS GROUP INTERNATIONAL™
 POST OFFICE BOX 3237
 MONTGOMERY, ALABAMA 36109-0237 (USA)
 TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com



MEMBER OF:



LOCATION

NON-FREEZE ROOF HYDRANT

FUNCTION: Provides water availability for window washing, cleaning of condenser coils, cooling towers and other types of roof equipment. Valve body of hydrant is drilled and tapped with 1/8" drain hole which must be piped to a drain location.

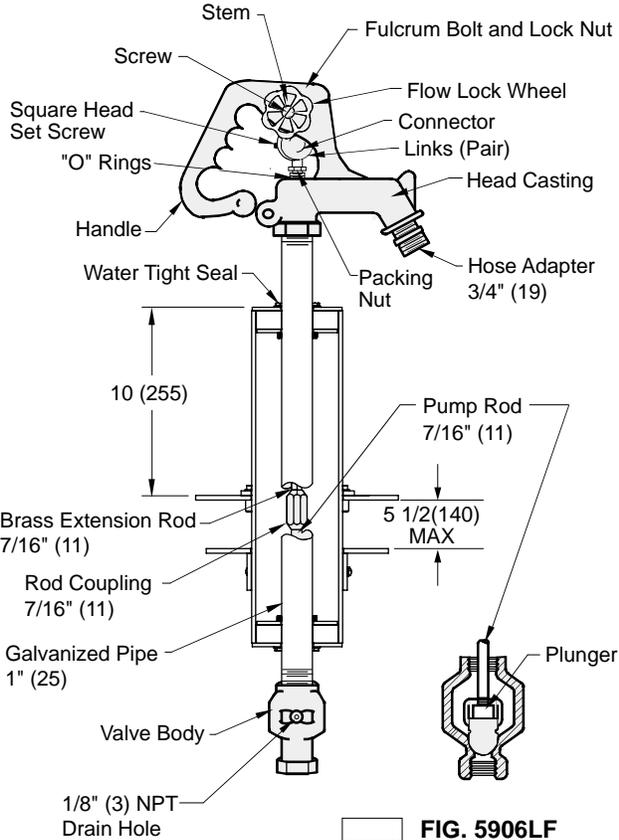
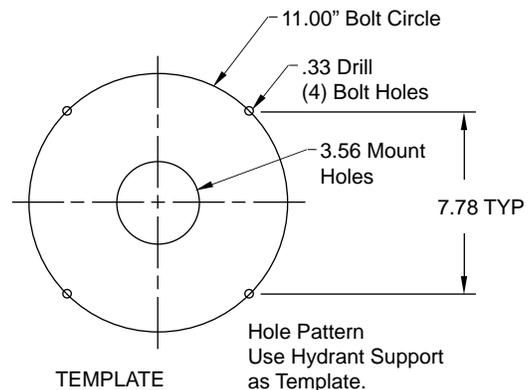
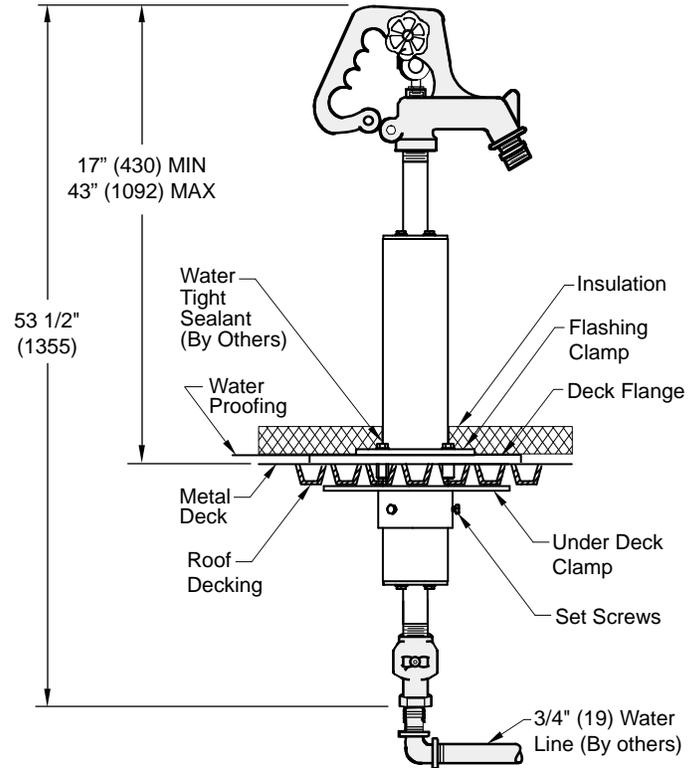


FIG. 5906LF



- NOTE:**
1. Drain Hole must be piped and discharged to an acceptable discharge point. Failure to do so will result in potential water damage which Smith is not responsible.
 2. 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.
 3. 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.
 4. Dimensions shown in parentheses are in millimeters.
 5. **FOR IRRIGATION PURPOSES ONLY.**

REGULARLY FURNISHED:
 Non-Freeze Roof Hydrant with Galvanized Casing and Adjustable Flow Wheel Lock Handle with Deck Flange and Under Deck Clamp.

VARIATIONS:

Vacuum Breaker -H (Note 2)



Certified by Truesdail Laboratories. Meets all Federal and state Safe Drinking Water Acts and requirements.

NSF/ANSI 372

DRAWING NUMBER

S5906

SIZE

A

SCALE:

NONE

DATE:

3/4/09

APPROVED BY:

AM

CHECKED BY:

AM

DRAWN BY:

RN

5906

FIGURE NUMBER

REV.	DATE	DESCRIPTION	BY	CKD. BY
G	1-21-14	Added Truesdail Note	TBW	JM
F	2-5-13	Revised Notes	TBW	CL
E	7-18-12	Added Dim	TBW	CL
D	6-13-11	Revised Note	TBW	CL

WEIGHT POUNDS	VOLUME CUBIC FEET

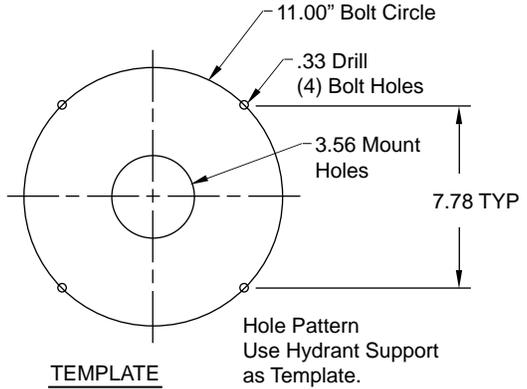
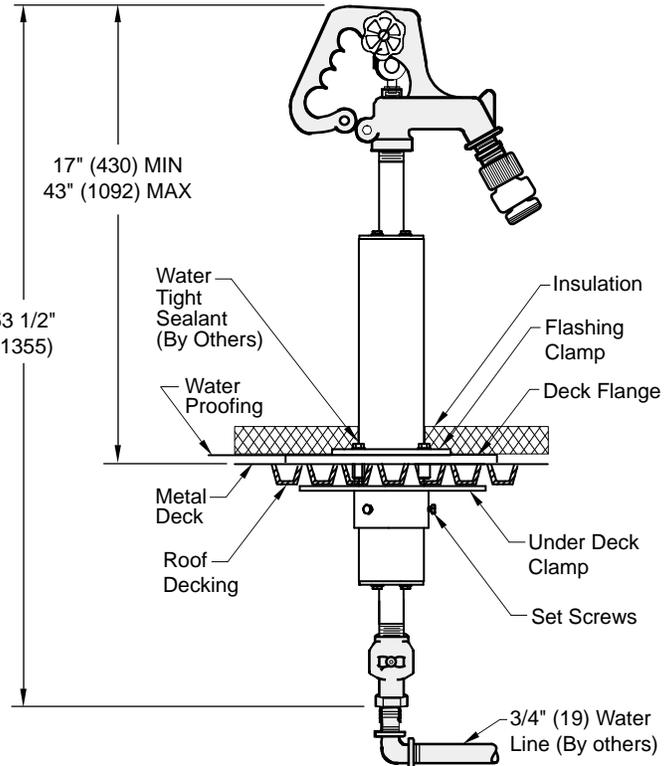
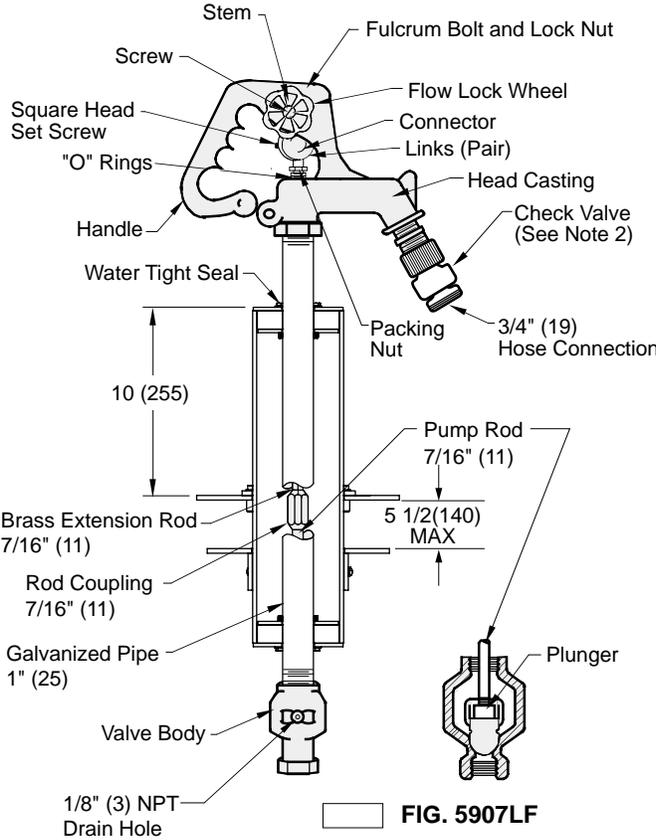
FIGURE NUMBER
5906
 (5900LF SERIES)

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

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

NON-FREEZE ROOF HYDRANT

FUNCTION: Provides water availability for window washing, cleaning of condenser coils, cooling towers and other types of roof equipment. Valve body of hydrant is drilled and tapped with 1/8" drain hole which must be piped to a drain location. The check valve prevents backflow due to low head back-pressure.



- NOTE:**
1. Drain Hole must be piped and discharged to an acceptable discharge point. Failure to do so will result in potential water damage which Smith is not responsible.
 2. Hose must be removed to allow proper draining of the casing. Smith is not responsible for any casings that burst or related incidents if the hose is not removed.
 3. 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.
 4. Dimensions shown in parentheses are in millimeters.
 5. **FOR IRRIGATION PURPOSES ONLY.**

REGULARLY FURNISHED:
 Non-Freeze Roof Hydrant with Check Valve, Galvanized Casing and Adjustable Flow Wheel Lock Handle with Deck Flange and Under Deck Clamp.

 Certified by Truesdail Laboratories. Meets all Federal and state Safe Drinking Water Acts and requirements.
 NSF/ANSI 372

DRAWING NUMBER S5907
 SIZE A
 SCALE: NONE
 DATE: 6-28-11
 APPROVED BY: CL
 CHECKED BY: CL
 DRAWN BY: TBW
 FIGURE NUMBER 5907
 DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE
 WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

D	1-21-14	Added Truesdail Note	TBW	JM	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER 5907 (5900LF SERIES)
C	2-5-13	Revised Notes	TBW	CL			
B	10-23-12	Rev. Function, Callout, Reg. Furn.	TBW	CL			
A	7-18-12	Added Dim	TBW	CL			
REV.	DATE	DESCRIPTION	BY	CKD. BY			