DRAWING NUMBE **S5810**

VOID DATA

OR

SUPERSEDED

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USE

NO RESPONSIBILITY FOR

CAN ASSUME

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AND CHANGE WITHOUT NOTICE

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE

4

NONE

12-8-88

APPROVED BY

DRAWN BY

5810,581

FIGURE NUMBER

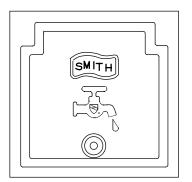
LOCATION

6 1/2 (165) Sq.

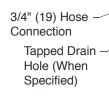
NON-FREEZE GROUND HYDRANT

3/4" (19) OR 1" (25) CONNECTIONS

FUNCTION: A Hydrant with a hinged covered box, for positive protection against freezing when buried outside or in unheated areas and the closing valve is located below the frost line. When hydrant is shut off, water is drained from the casing through the drain hole in the valve housing. The locking cover prevents unauthorized use.



NOTE: 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.



FRONT VIEW

NOTES: 1. Recommended Box-out 5 3/4 (145) x 5 3/4(145).

- 2. All Jay R. Smith hydrants are manufactured with "NO-LEAD" brazing rings and USDA approved
- 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.

B(Depth of Bury) = 02(610), 03(915), 04(1220),05(1525), 06(1830), 07(2135) or 08(2438) Feet *B = 9 1/2"(240) When Specified 5810-SAP *B = 9 1/2"(240) When Specified 5811-SAP

Fig. 5810. . . 3/4"(19) INLET Fig. 5811... 1"(25) INLET

Drain Hole

REGULARLY FURNISHED:

Bronze Non-Freeze Ground Hydrant with "T" Handle Key, and Bronze Hydrant Box. Inlet Size Furnished as Indicated by Figure Number Selected.

VARIATIONS:

1"(25) Hose Connection Adaptor -HC1 Less Drain Hole -LD

1/8"(3) NPT Drain Hole in Box -N 1/8"(3) NPT Drain Hole in Valve Housing -NV

Mild Climate -SAP

"Water" Cast on Cover -W

OPTIONAL MATERIALS:

Female NPT Inlet

"T" Handle Key

2 1/2

(64)

*"B" Feet

Depth of Bury

(Please Specify)

Hinged

Locking

Cover

Nickel Bronze Box -NB Polished Bronze Box -PB

TECHNICAL DATA

Non-Freeze Ground Hydrants are supplied with a special valve housing which prevents freezing of hydrant during non-use periods. The valve housing must be installed below the frost line which prevails for the area of installation. The valve housing has a drain hole which drains the casing when the hydrant is shut off. In effect, there is no water in the casing during non-use periods. Since water from the drain hole is normally allowed to drain into the ground, the valve housing should be set in a bed of gravel. Water drained from the casing can then seep into the ground.

Some locations which require Non-Freeze Ground Hydrants cannot tolerate water draining from the drain hole. Examples are parking garages, plazas and roof decks used for recreational purposes. Often in these types of applications the valve housing will protrude into a finished area which is not subject to freezing temperatures. To eliminate the problem of water drainage in this type of installation, Smith can supply a tapped drain hole in the hydrant box and a tapped drain hole in the valve housing. Through these tapped drain holes, water accumulation in the box and the water from the valve housing drain hole can be piped to a suitable drain.

P N M L	2-4-13 6-13-11 5-17-11 10-7-09	Revised Notes Revised Note Added Note Revised Notes	TBW TBW TBW RN	CL CL CL	_	VOLUME CUBIC FEET	FIGURE NUMBER 5810.5811
REV.	DATE	DESCRIPTION	BY	CKD. BY			,

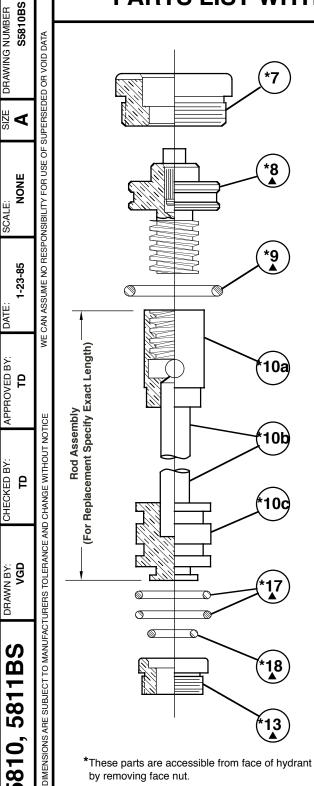
JAY R.
SMITH MFG. CO.

®
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



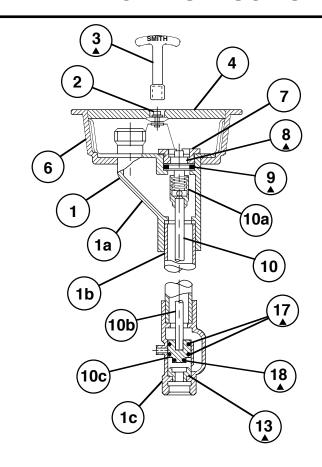
LOCATION

PARTS LIST WITH MAINTENANCE INSTRUCTIONS



by removing face nut.

FIGURE NUMBER



REPLACEMENT PARTS LIST - SPECIFY FIGURE NO. WHEN ORDERING								
No.	DESCRIPTION	No.	DESCRIPTION					
1 1a 1b 1c 2 3 4 5 6 7	Head/Casing Assembly Head Casing Valve Housing Locking Device Key Cover Hydrant Cover Hinge Pins (2) Box Face Nut	8 9 10 10a 10b 10c 13 17	Operating Screw Operating Screw "O" Ring Operating Rod Assembly Coupling Rod Plunger Removable Seat Plunger "O" Ring Plunger "O" Ring					

▲THESE REPLACEMENT PARTS AVAILABLE IN HPRK-41

MAINTENANCE INSTRUCTIONS

- 1. Shut off water supply.
- 2. Remove face nut.
- 3. Pull stem out for complete access to all working parts.
- 4. Check all working parts for replacement.
- 5. Replace complete stem assembly and face nut.

					WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
Α	6-28-93	Submittal Update	EMB	CL	TOUNDO	OODIOTEET	5810, 5811
REV.	DATE	DESCRIPTION	BY	CKD. BY			0010, 0011