

ENGINEERING COMMUNIQUÉ

JAY R. SMITH MFG. CO.® ♦ MARCH, 2012 ♦ VOLUME 2- ISSUE 3



**From:
THE SMITH ENGINEERING GROUP**

PRODUCT ALERT: SQ-9-4416, SQ-7-2355, SQ-9-4104 & SQ-1-4574.

SQ-9-4416: This item provides a protective cover for a fresh air inlet piping at the exterior wall.

SQ-7-2355: The BWV is fabricated to fit into an existing sewer line and can be provided in stainless steel.

SQ-9-4104: This drain is used in a floating floor application. This particular assembly uses a figure number 2110 for the upper body.

SQ-1-4574: This design was requested by an architect. This is an overflow drain but the figure number 1080 style was not desired. A square drain with a flat grate was specified.



SPECIFIC GRAVITY:

Specific gravity is the measure of density. Determining the specific gravity of an object can tell you much about it, like whether it will float or sink in water.

Anything with a specific gravity less than '1' will float in water. Because specific gravity is temperature dependent, the specific gravity of ice is less than that of the liquid water. This makes ice float.

Grease (FOG) has a specific gravity less than '1'. Therefore, the reason it will float in the water. Grease will float whether it is in a liquid state or a solid state. In both conditions, the specific gravity is less than '1'.

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INTERNATIONAL**



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LOCATION

DRAWING NUMBER
SSQ-9-4416

SIZE
A

SCALE:
NONE

DATE:
05-19-2011

APPROVED BY:
CR

CHECKED BY:
AM

DRAWN BY:
CR

SQ-9-4416

FIGURE NUMBER

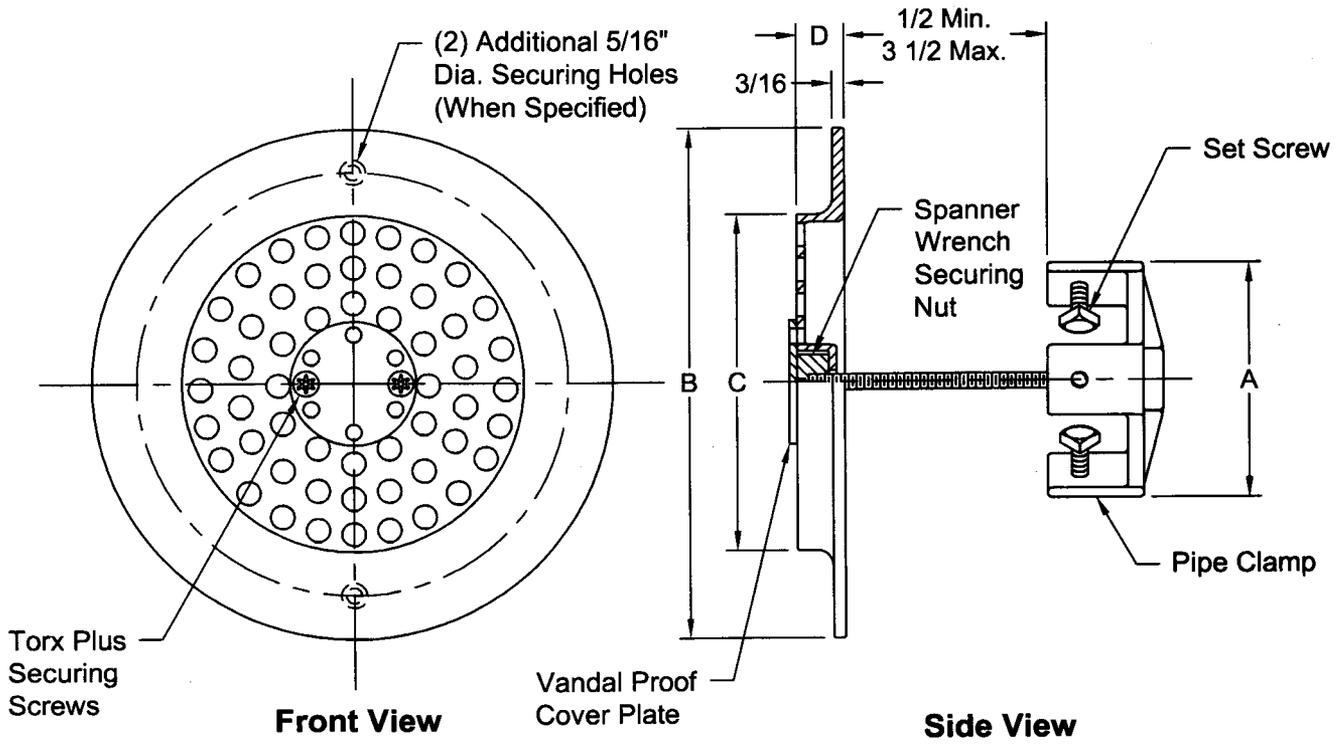
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SPECIALTIES

FRESH AIR INLET

FUNCTION: Provides a protective cover for the fresh air inlet piping at the exterior wall and allows ample air to enter the system. Provided with vandal resistant spanner securing nut. Additional vandal proofing provided via cover plate over spanner nut secured with two torx plus screws. Plate has to be removed to access spanner nut.



A SIZE	03	04	05	06	08	10
B DIA	8	8	10	10	14	14
C DIA	5 1/4	5 1/4	7 3/4	7 3/4	11 1/2	11 1/2
D	3/4	3/4	3/4	3/4	1	1
FREE AREA SQ IN	7	7	18.26	18.26	44.88	44.88

Fig. SQ-9-4416 WITH PIPE CLAMP
 Fig. SQ-9-4416-LPC LESS PIPE CLAMP

REGULARLY FURNISHED:
 Polished bronze with cover plate over spanner wrench securing nut secured to face with torx plus screws.

VARIATIONS:
 McGard Cover Plate
 Securing Screws -MGS
 Additional Securing Holes -U2

OPTIONAL MATERIALS:
 Chrome Plated -CP
 Polished Nickel Bronze -NB

REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER SQ-9-4416
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C



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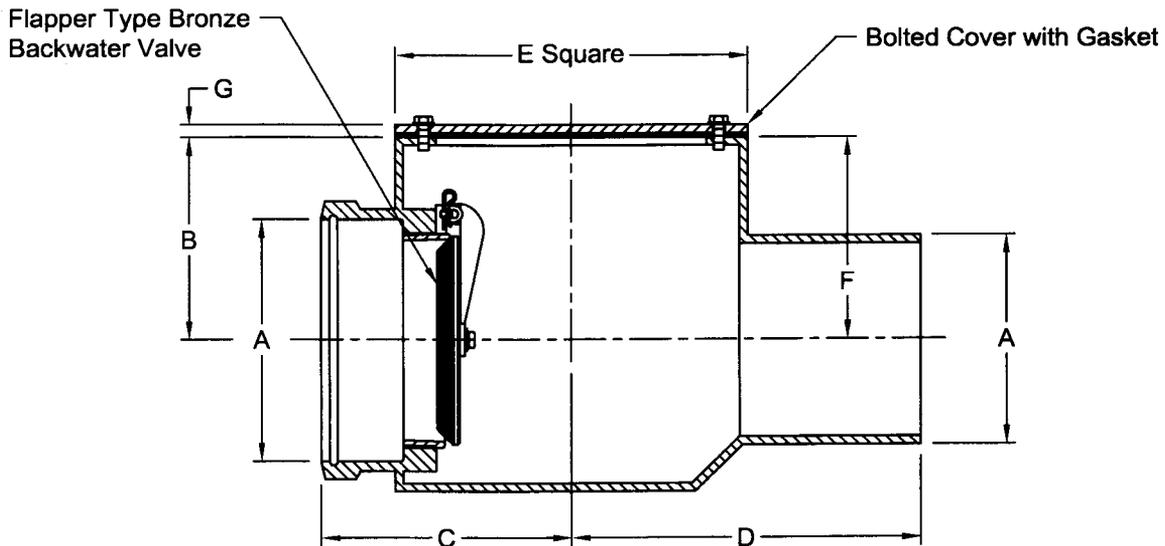


LOCATION

BACKWATER VALVE

INLINE BACKWATER VALVE

FUNCTION: Used in existing main or branch sewer lines to protect basements and low areas against backflow from the street sewers. Valve design permits access to backwater valve assembly, for servicing or cleaning, through a bolted cover. This valve can be retro-fit into an existing sewer line.



A (Pipe Size)	B	C	D	E	F	G
02	4 1/8	5 1/2	8 1/2	6 1/2	4 1/2	3/8
03	4 3/4	6	9	7 1/2	5 1/8	3/8
04	5 1/4	6 1/2	9 1/2	8 1/2	5 5/8	3/8
05	5 3/4	7 5/8	10 5/8	10 3/4	6 1/8	3/8
06	6 1/4	7 5/8	10 5/8	10 3/4	6 5/8	3/8
08	7 5/8	8 3/4	11 3/4	13	8	3/8
10	8 3/4	9 1/4	12 1/4	14	9 1/8	3/8
12	9 3/4	10 3/8	13 3/8	16 1/4	10 1/8	3/8
16	11 1/8	14 3/4	15 3/8	21	11 1/8	3/8

Fig. SQ-7-2355S . . . HUB INLET - SPIGOT OUTLET

REGULARLY FURNISHED:

Duco coated fabricated steel body with bronze backwater valve.

VARIATIONS:

Y No Hub Inlet and Outlet

OPTIONAL MATERIALS:

Stainless Steel Body -SS
 Acid Resistant Coated -ARIO

REV.	DATE	DESCRIPTION	BY	CKD. BY
C	09-02-2005	Revised Table	CL	CR
B	08-22-2003	Revised Table	AM	CR
A	07-11-1999	Added 8" Size	BW	CR

WEIGHT POUNDS

VOLUME CUBIC FEET

FIGURE NUMBER

SQ-7-2355

DRAWING NUMBER

SSQ-7-2355

SIZE

A

SCALE:

NONE

DATE:

07-23-1999

APPROVED BY:

CR

CHECKED BY:

AM

DRAWN BY:

CR

SQ-7-2355

FIGURE NUMBER

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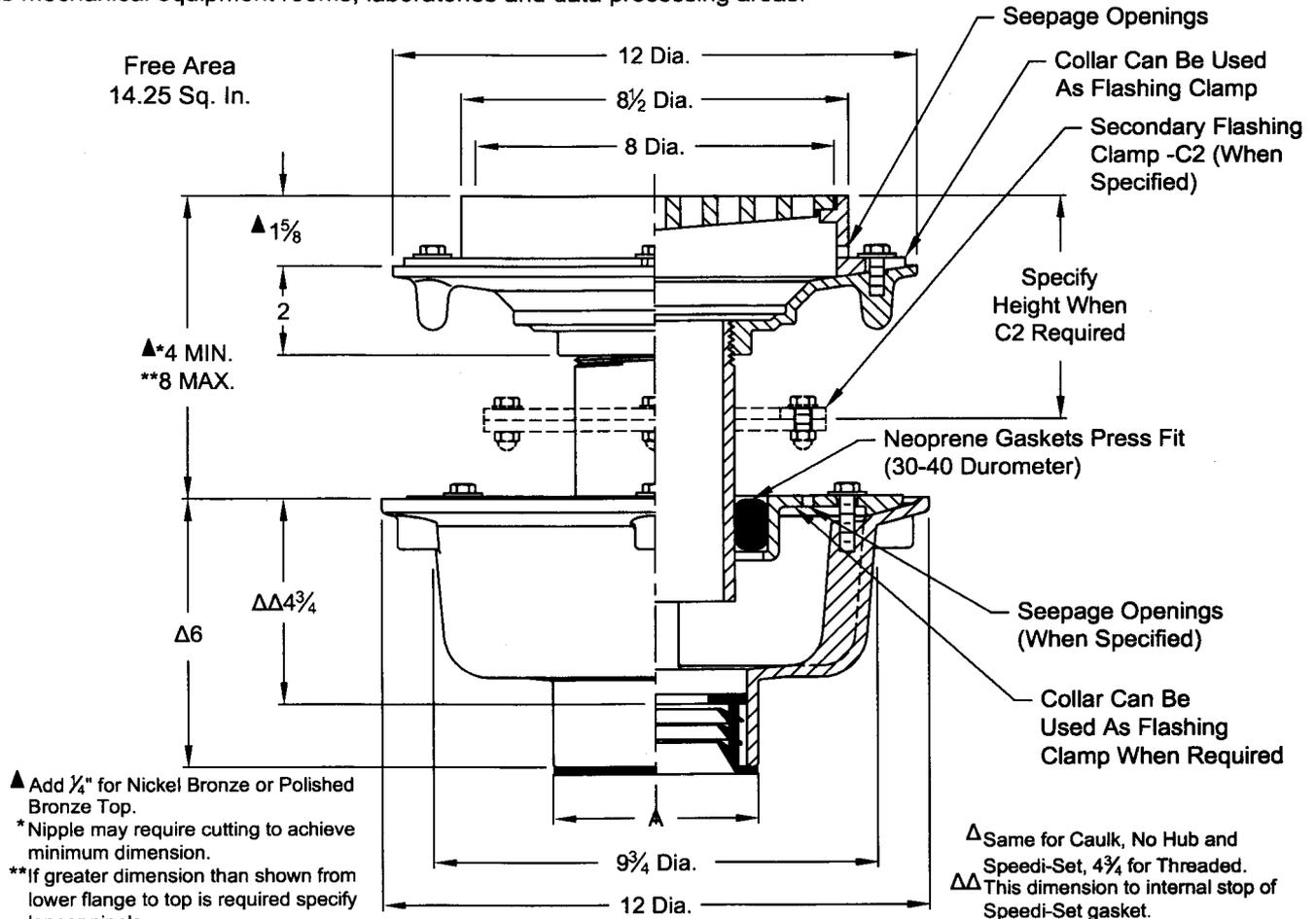
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LOCATION

DRAIN FOR FLOATING (ISOLATED) FLOOR SYSTEMS

REGULARLY FURNISHED: Used in areas which may have to be isolated from the other parts of the building; such as mechanical equipment rooms, laboratories and data processing areas.



A (Pipe Size) = 02, 03, or 04

- Fig. SQ-9-4104C CAULK OUTLET
- Fig. SQ-9-4104Y NO HUB OUTLET
- Fig. SQ-9-4104L SPEEDI-SET OUTLET
- Fig. SQ-9-4104LSW. SPEEDI-SET SERVICE WEIGHT OUTLET

REGULARLY FURNISHED:
 Duco coated cast iron lower body and flashing collar with gasket, and adjustable nipple. Duco coated cast iron upper body with flashing clamp and loose-set slotted grate.

- VARIATIONS:**
- Vandal Proof -U
 - Sediment Bucket -B
 - Secondary Flashing Clamp -C2
 - Seepage Openings (in lower flashing clamp) -WSH
 - Sump Receiver -R
 - Underdeck Clamp -C

- OPTIONAL MATERIALS:**
- Galvanized Cast Iron -G
 - Nickel Bronze Top -NB
 - Polished Bronze Top -PB

DRAWING NUMBER
SSQ-9-4104

SIZE
A

SCALE:
NONE

DATE:
06-24-2009

APPROVED BY:
CR

CHECKED BY:
AM

DRAWN BY:
CR

FIGURE NUMBER
SQ-9-4104

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REV.	DATE	DESCRIPTION	BY	CKD. BY

WEIGHT POUNDS	VOLUME CUBIC FEET

FIGURE NUMBER
SQ-9-4104

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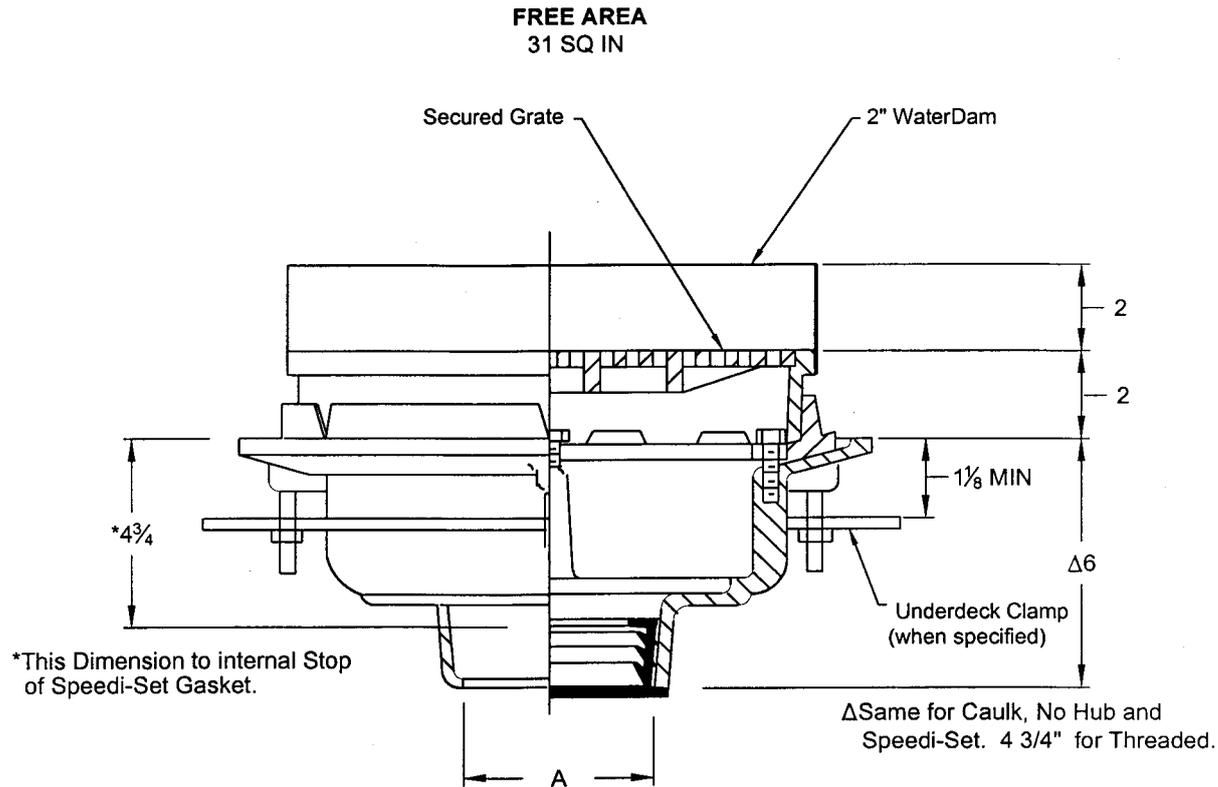


LOCATION

SPECIAL PROMENADE DECK DRAIN

DRAWING NUMBER: A
 SIZE: A
 SCALE: NONE
 DATE: 03-12-2012
 APPROVED BY: CR
 CHECKED BY: CL
 DRAWN BY: CL
 FIGURE NUMBER: SQ-1-4574

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.
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A (Pipe Size) = 02, 03, 04, 05, or 06

- Fig. SQ-1-4574C.CAULK OUTLET
- Fig. SQ-1-4574Y.NO-HUB OUTLET

REGULARLY FURNISHED:

Duco Cast Iron Body and Square Frame Flashing Clamp with Seepage Openings, 2" High Water Dam and Secured Square Hole Grate.

VARIATIONS:

- L Speedi-Set Service Weight 02, 03 & 04 sizes only
- LXH Speedi-Set Extra Heavy 02, 03 & 04 sizes only
- T Threaded Outlet
- Underdeck Clamp -C
- Extension -E
- Secondary Flashing Clamp -C2 (requires an extension)

OPTIONAL MATERIALS:

- Galvanized Cast Iron -G
- Nickel Bronze Top -NB
- Polished Bronze Top -PB

NOTE: Floor drains or area drains used to drain areas subject to rainfall should have an open area equal to twice the cross sectional area of the connecting pipe.

REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER SQ-1-4574