

CATALOG
H

JOSAM MANUFACTURING CO.

**MICHIGAN CITY,
INDIANA, U.S.A.**



Foreword

IN presenting Josam Catalog H, we have endeavored to indicate to the Architect and Engineer, in a brief and concise form, those items of Josam manufacture which we believe are standard and most frequently called for.

In order to present the various Josam Products adaptable to definite requirements, we have grouped them under respective headings to simplify the selection of Josam Products for a specific need, namely, Drains with brass adjustable strainers, Drains with grates, Floor Drains, Roof Drains, Interceptors, and other Josam Products, each group in its respective portion of the catalog, properly indexed to assist in the choice of the correct Josam Product for the purpose required.

In most cases the illustrated index preceding a section, includes a photograph of each item in that section, which, together with the detailed drawing shown on the product page, gives both a visual idea and a method of figuring dimensions or roughing-in measurements. A few Josam Products are illustrated but not described, (complete information on request).

Our Engineering Department, Empire Building, Cleveland, Ohio, is at the service of the Architect, Engineer, Plumber, Contractor or others who desire information pertaining to installation of standard Josam Products, the modification of our standard products, or the design of special drainage fittings to meet definite requirements. Any Josam Drain can be furnished to order in acid-resisting Everdur. Certain types furnished in acid-resisting Duriron (write for information).

The merit and value of Josam Products are evidenced by the high regard they have attained in the Architectural and Engineering Profession.

All list prices shown in Catalog H are F.O.B. Michigan City, Indiana.

Copy of complete Catalog H furnished on request.

JOSAM MANUFACTURING COMPANY

Architects' Service and Main Sales Departments
Empire Bldg., CLEVELAND, OHIO

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MICHIGAN CITY, IND.

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EMPIRE BRASS MFG. CO., LONDON, ONTARIO, CANADA

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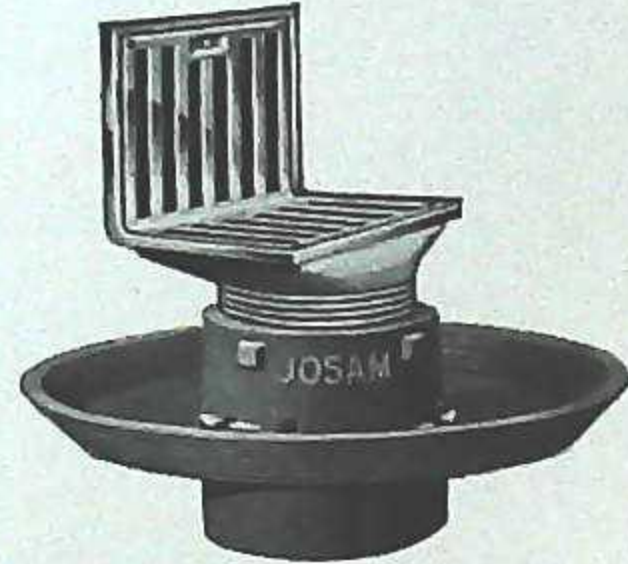
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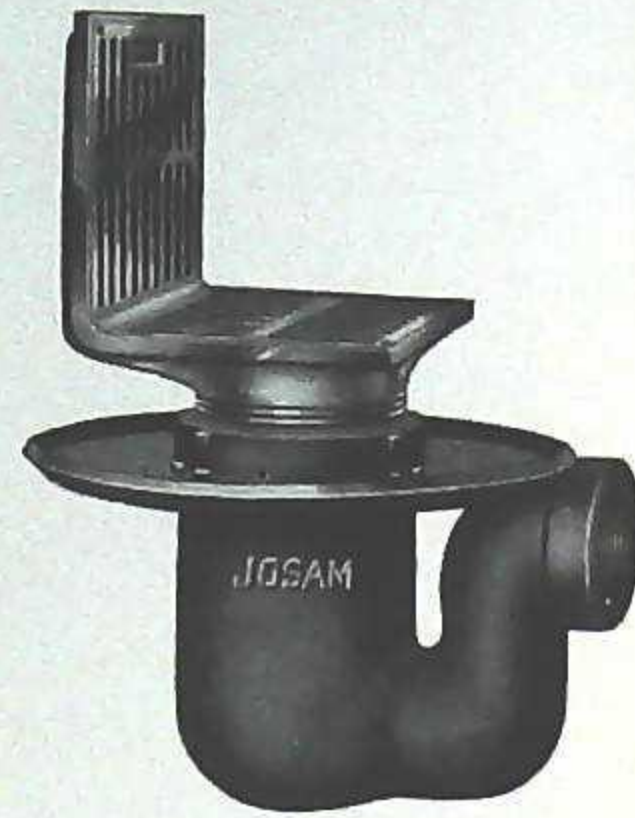
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Series 730BT



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Strainer Variations

Above drains (except Series 20 and 60) can be furnished with the following types of adjustable strainers when so ordered. See pages 12 and 13 for details.



Convex or Concave



Hinged Top



Dome



Bee-hive

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JOSAM DOUBLE DRAINAGE FLOOR OR SHOWER STALL COMBINED DRAIN AND TRAP

With or Without Flashing Clamping Device

For Any Kind of Floor Construction

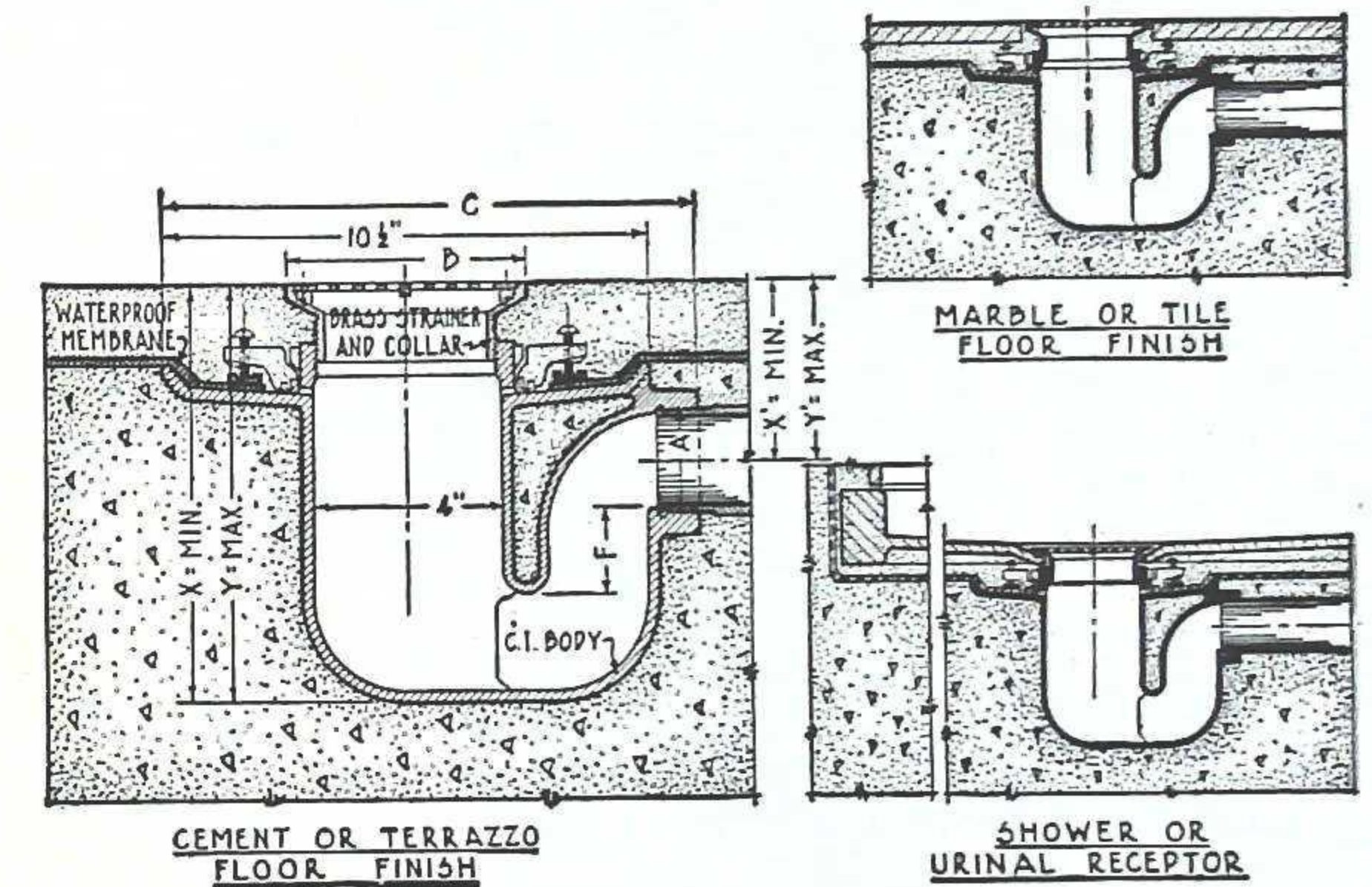
SERIES 200A

For floors, shower stalls or receptors where a combination drain and trap is desired and where construction permits the use of a drain and trap 8 1/4" or more in height. The threaded adjustable brass strainer provides means for meeting variations in level or thickness of floors. Strainers can be furnished in combination with this drain to fit all standard makes of receptors.

General Construction

Cast iron japanned body, nickel plated adjustable brass strainer, recessed female threaded outlet, unless otherwise ordered. Outlet can be furnished with adaptors for hub or spigot connection when so ordered.

Conforms to U. S. Govt. Specifications WW-P-541, Fig. 75. No. 448, Fig. 2, Details 2 and 3.



DIMENSIONS AND LIST PRICES

Type	Dimension in Inches									Weight lbs.	C. I. Body Brass Strainer		All Brass	Add for	
	A Out-let	B—Strainer		C	F	X	Y	X'	Y'		Jap'd	Galv.		White Metal Strainer	Chrome Plate
		Size	Type*												
241 1/2 A	1 1/2	4	10K	12	2 1/8	8 1/8	9 3/8	3 1/8	4 3/8	20	\$12.00	\$15.00	\$22.00	\$1.50	\$0.60
251 1/2 A	1 1/2	5	11K	12	2 1/8	8 3/8	9 1/8	3 3/8	4 1/8	20	13.00	16.00	23.00	2.00	.80
261 1/2 A	1 1/2	6	12K	12	2 1/8	8 7/8	9 5/8	3 7/8	4 5/8	20 1/2	14.50	17.50	24.50	2.75	1.00
242A	2	4	10K	11 1/2	2 3/4	8 7/8	10 1/8	3 1/4	4 1/2	20	12.00	15.00	22.00	1.50	.60
252A	2	5	11K	11 1/2	2 3/4	9 1/8	10 3/8	3 1/2	4 1/4	20	13.00	16.00	23.00	2.00	.80
262A	2	6	12K	11 1/2	2 3/4	9 7/8	10 5/8	3 3/4	5	20 1/2	14.50	17.50	24.50	2.75	1.00
253A	3	5	11K	12 1/2	2 1/4	9 7/8	10 5/8	3 3/4	4 1/2	23 1/2	17.00	20.00	32.00	2.00	.80
263A	3	6	12K	12 1/2	2 1/4	10 5/8	11 3/8	4 1/2	5 1/4	24	18.50	21.50	33.50	2.75	1.00
273A	3	7	13K	12 1/2	2 1/4	10 7/8	11 3/4	4 3/4	5 1/4	25	20.00	23.00	35.00	3.50	1.50
283A	3	8	14K	12 1/2	2 1/4	10 7/8	11 3/8	4 3/4	5 1/4	26	21.50	24.50	36.50	4.25	2.00
254A	4	5	11K	15 1/2	2 1/8	10 3/4	11 1/4	4 5/8	5 1/8	35	21.50	26.10	38.50	2.00	.80
264A	4	6	12K	15 1/2	2 1/8	11 7/8	12 5/8	4 3/4	5 1/2	36	23.00	27.60	40.00	2.75	1.00
274A	4	7	13K	15 1/2	2 1/8	11 1/2	12 3/8	4 3/8	5 1/4	37	24.50	29.10	41.50	3.50	1.50
284A	4	8	14K	15 1/2	2 1/8	11 5/8	12 3/8	4 1/2	5 1/4	38	26.00	30.60	43.00	4.25	2.00
214A	4	10	46K	15 1/2	2 1/8	11 5/8	12 5/8	4 1/2	5 1/2	40	29.00	33.60	46.00	5.75	3.00
Clamping Device, add											1.00	1.50	2.50		

*Type strainer regularly furnished. Bodies threaded to receive strainer having 3 3/4-in. diameter shank or furnished with bushing to receive strainers having 3 3/8-in. or 2 1/2-in. diameter shank. See pages 12 and 13 for prices and information on strainers other than regularly furnished.

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JOSAM DOUBLE DRAINAGE FLOOR OR SHOWER STALL DRAIN WITHOUT TRAP

With or Without Flashing Clamping Device
For Any Kind of Floor Construction

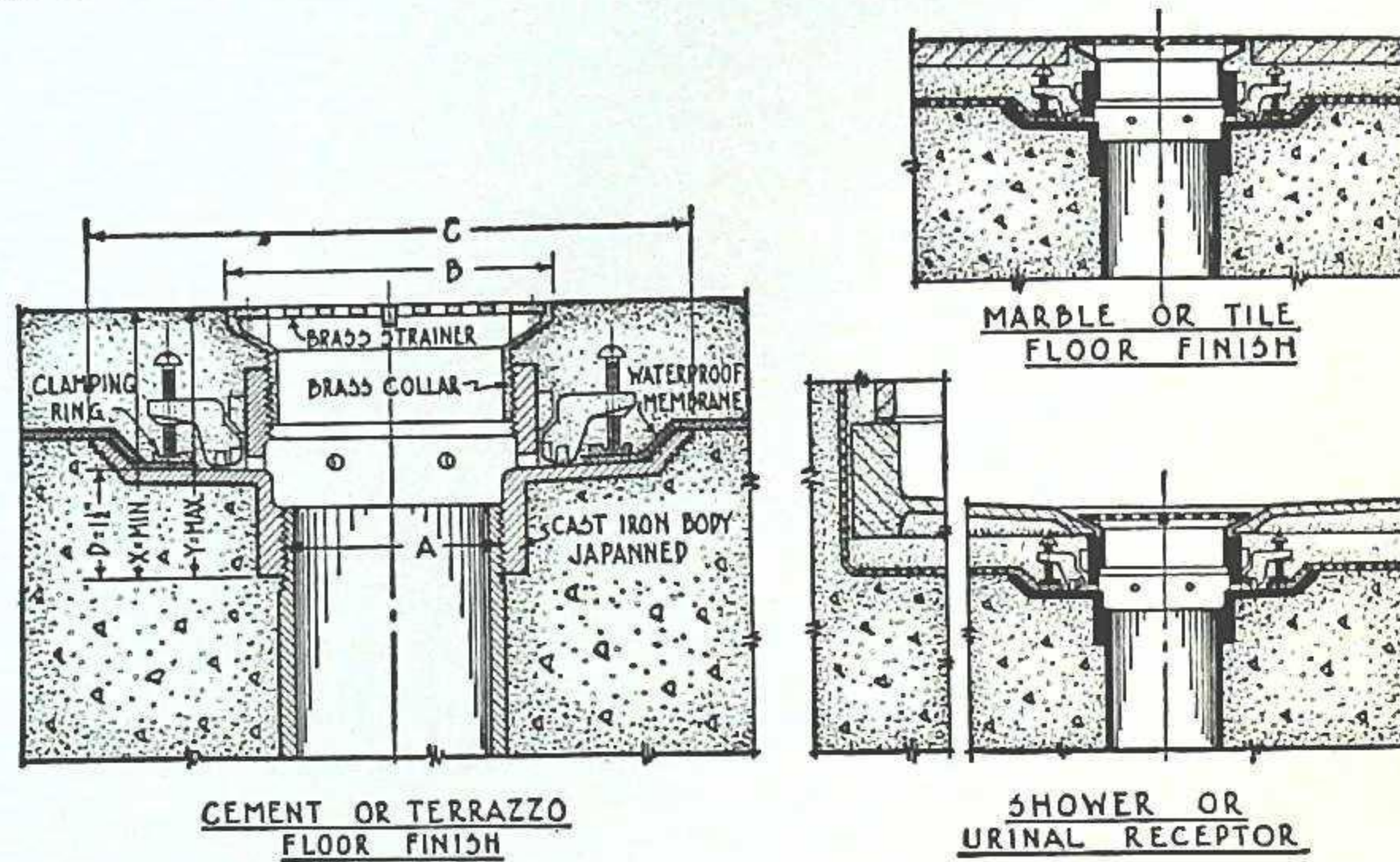
SERIES 300

For floors, shower stalls, urinals or receptors where construction requires a drain without trap or where an independent trap be installed. The threaded adjustable brass strainer provides means for meeting variations in level or

thickness of floors. Strainers can be furnished in combination with this drain to fit all standard makes of receptors. Also furnished with various connections for inlets and outlets of swimming pools (see page 43).

General Construction

Cast iron japanned body, nickel plated adjustable brass strainer, female threaded outlet, unless otherwise ordered. Outlet can be furnished for inside caulking or with adaptor for spigot connection, when so ordered. For similar drains with side outlet see series 300R, next page.



Conforms to U. S. Govt. Specifications WW-P-541, E-10p (2), Fig. 74. No. 448, Fig. 2, Detail 3.

DIMENSIONS AND LIST PRICES

Type	A Outlet	Dimension in Inches						Weight, lbs.	C. I. Body, Brass Strainer		All Brass	Add for	
		B Strainer		C	D	X	Y		Jap'd	Galv.		White Metal Strainer	Chrome Plate
		Size	Type*										
341 1/2	1 1/2	4	17K	7 3/4	1 1/2	3 1/4	3 3/8	7	\$6.50	\$7.50	\$11.00	\$1.50	\$0.60
351 1/2	1 1/2	5	11K	9 1/4	1 1/2	3 1/4	4	9	7.50	8.50	12.00	2.00	.80
361 1/2	1 1/2	6	12K	9 1/4	1 1/2	3 1/4	5 1/8	10	9.00	10.00	13.50	2.75	1.00
342	2	4	17K	7 3/4	1 1/2	3 1/4	3 3/8	7	6.50	7.50	11.00	1.50	.60
352	2	5	11K	9 1/4	1 1/2	3 1/4	4	9	7.50	8.50	12.00	2.00	.80
362	2	6	12K	9 1/4	1 1/2	3 1/4	5	9 1/2	9.00	10.00	13.50	2.75	1.00
343	3	4	10K	9 1/4	1 1/2	3	4	9	8.00	9.50	14.00	1.50	.60
353	3	5	11K	9 1/4	1 1/2	3 1/4	4	9	9.00	10.50	15.00	2.00	.80
363	3	6	12K	9 1/4	1 1/2	3 1/4	5 1/8	10	10.50	12.00	16.50	2.75	1.00
373	3	7	13K	9 1/4	1 1/2	4 1/8	4 3/4	10 1/2	12.00	13.50	18.00	3.50	1.50
383	3	8	14K	9 1/4	1 1/2	4 1/8	4 7/8	11	13.50	15.00	19.50	4.25	2.00
354	4	5	11K	10 1/4	1 1/2	3 1/4	4	12	10.00	12.00	16.50	2.00	.80
364	4	6	12K	10 1/4	1 1/2	3 1/4	4 1/2	11 1/2	11.50	13.50	18.00	2.75	1.00
374	4	7	13K	10 1/4	1 1/2	4 1/8	4 3/4	12 1/2	13.00	15.00	19.50	3.50	1.50
384	4	8	14K	10 1/4	1 1/2	4 1/8	4 7/8	13	14.50	16.50	21.00	4.25	2.00
304	4	10	46K	10 1/8	1 1/2	4 1/8	5 1/8	16	17.50	19.50	24.00	5.75	3.00
†352LP	2	5	11K	9 1/4	2 3/4	4 1/4	5 1/4	10 1/2	10.50	12.50	17.50	2.00	.80
†353LP	2	5	11K	10 1/4	2 3/4	4 1/4	5 1/4	12 1/2	11.50	13.50	18.50	2.00	.80
†342MF	2-1 1/2	4	17K	7 3/4	1 1/2	3 1/4	3 3/8	7	6.50	7.50	11.00	1.50	.60
†352MF	2-1 1/2	5	11K	9 1/4	1 1/2	3 1/4	4	9	8.00	9.50	12.00	2.00	.80
†324U	2	4 1/2	15K	9 1/4	1 1/2	3 1/4	5 1/2	8	8.00	9.00	12.50	1.75	.70
†342UX	2	4	15K	9 1/4	1 7/8	3 3/8	5 7/8	8 1/2	8.00	9.00	12.50	1.75	.70
†342ULP	2	4	15K	9 1/4	2 3/4	4 1/2	6 3/4	9 1/2	9.50	10.50	14.00	1.75	.70
Clamping Device, add									1.00	1.50	2.50		

*Type strainer regularly furnished. 1 1/2 and 2-in. outlet bodies are threaded to receive strainer having 2 1/2-in. diameter shank only. All other bodies threaded to receive strainer having 3 3/4-in. diameter shank or with bushing to receive strainers having 3 3/8 or 2 1/2-in. diameter shank.

See pages 12 and 13 for prices and information on strainers other than regularly furnished.

†Note: MF denotes outlet furnished threaded, 2 in. male and 1 1/2 in. female.

LP denotes outlet equipped with lead pipe connector of brass.

U denotes drain furnished for urinal receptor.

UX denotes drain furnished for urinal stalls with outlet for inside caulking.



JOSAM DOUBLE DRAINAGE SIDE OUTLET FLOOR OR SHOWER STALL DRAIN WITHOUT TRAP

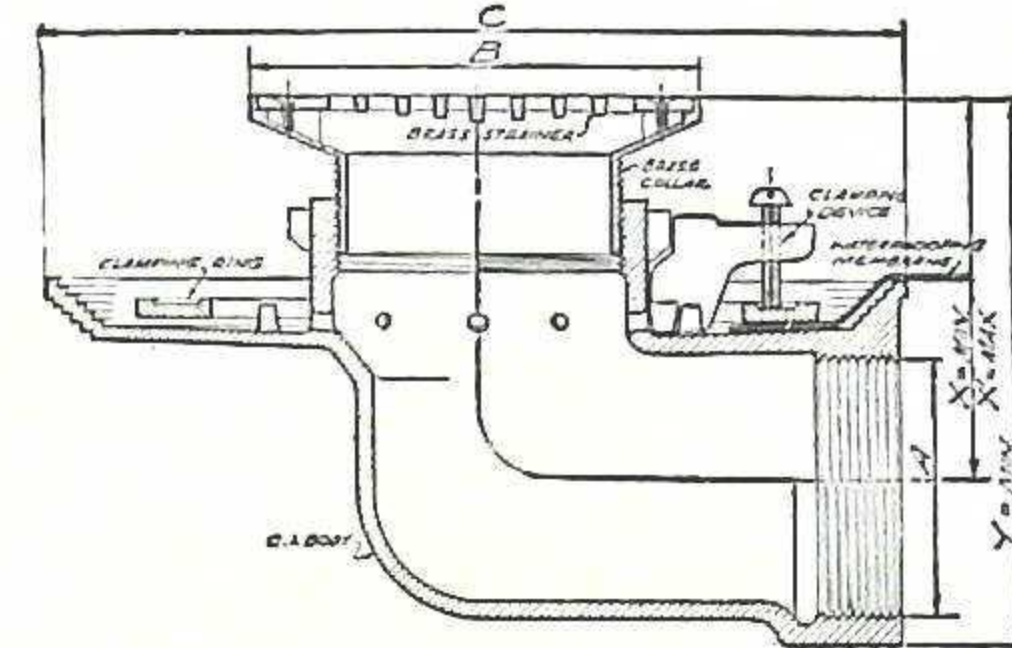
With or Without Flashing Clamping Device
For Any Kind of Floor Construction

SERIES 300R

For floors, shower stalls, urinals or receptors where floor construction requires a drain with side outlet, without trap. The threaded adjustable brass strainer provides means for meeting variations in level or thickness of floors. Strainers can be furnished in combination with this drain to fit all standard makes of receptors

General Construction

Cast iron japanned body, nickel plated adjustable brass strainer, recessed female threaded side outlet, unless otherwise ordered. Outlet can be furnished with adaptors for hub or spigot connection when so ordered.



DIMENSIONS AND LIST PRICES

Type	All Dimensions in Inches							Weight, lbs.	C. I. Body, Brass Strainer		All Brass	Add for				
	A Outlet	B—Strainer		C	X	X ¹	Y		Y ¹	Jap'd		Galv.	White Metal Strainer	Chrome Plate		
		Size	Type*													
341 1/2 R	1 1/2	4	17K	7 3/4	1 1/2	3 1/4	3 3/8	3 3/8	4 5/16	5 1/16	8	\$ 8.00	\$ 9.50	\$13.00	\$1.50	\$.60
342 R	2	4	17K	7 3/4	1 1/2	3 1/4	2 7/8	3 3/8	4 5/16	5 1/16	8	8.00	9.50	13.00	1.50	.60
353 R	3	5	11K	9 1/4	1 1/2	3 1/4	3 3/8	4 1/8	5 3/8	6 1/8	10	11.00	13.00	18.00	2.00	.80
363 R	3	6	12K	9 1/4	1 1/2	3 1/4	3 3/8	4 3/4	5 7/8	6 3/4	11	12.50	14.50	19.50	2.75	1.00
373 R	3	7	13K	9 1/4	1 1/2	3 1/4	3 3/8	4 1/2	5 3/4	6 1/2	12	14.00	16.00	21.00	3.50	1.50
364 R	4	6	12K	10 1/4	1 1/2	4 1/8	4 1/2	5 3/8	6 1/2	7 3/8	14	14.50	17.00	23.00	2.75	1.00
374 R	4	7	13K	10 1/4	1 1/2	4 1/8	4 1/2	5 1/2	6 1/4	7 1/8	15	16.00	18.50	24.50	3.50	1.50
Clamping Device, add												1.00	1.50	2.50		

*Type strainer regularly furnished. Bodies of Types 341 1/2 and 342 are threaded to receive strainer having 2 1/2-in. diameter shank only. All other type bodies are threaded to receive strainer having 3 3/4-in. diameter shank or with bushing to receive strainer having 3 3/8 or 2 1/2-in. diameter shank. See pages 12 and 13 for prices and information on strainers other than regularly furnished.

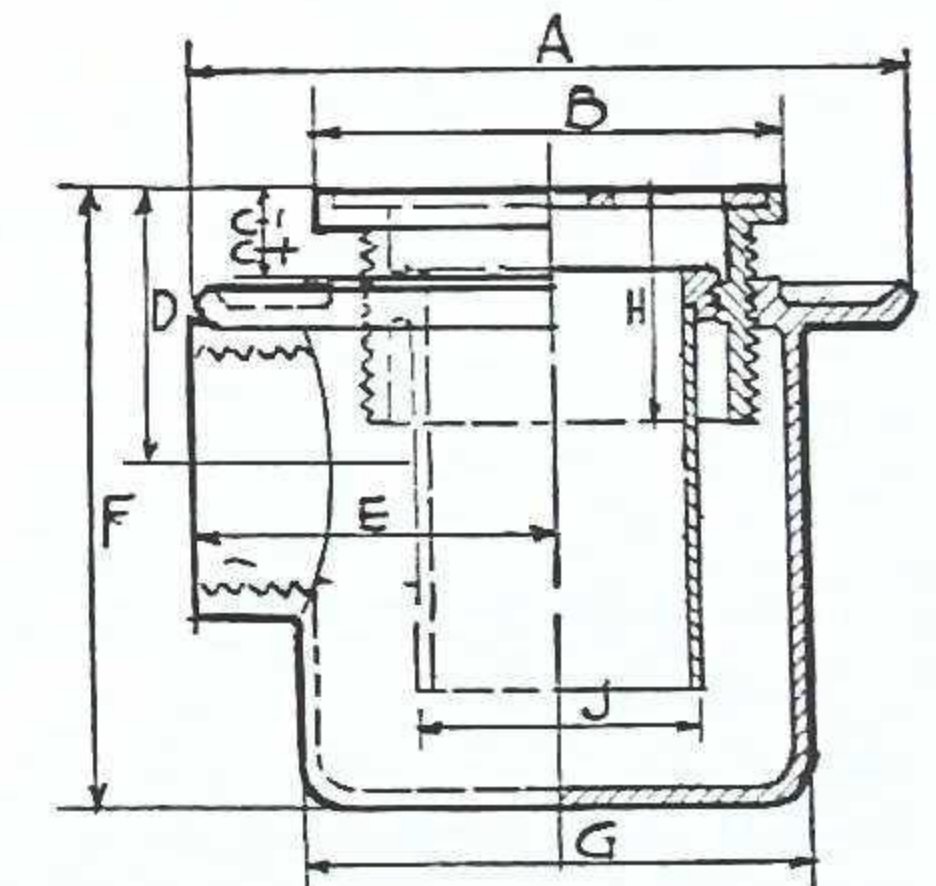
JOSAM ALL BRASS COMBINED DRAIN AND TRAP

SERIES 50

Conforms to U. S. Govt. Specification No. 448, Fig. 2, Detail 2.

General Construction

All cast brass body, threaded adjustable brass strainer, recessed female threaded outlet, unless otherwise ordered. This drain has minimum of 1 1/2-in. water seal.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches											Weight, lbs.	All brass	Add for		
	Outlet	Strainer	A	B	C-	C+	D-	E	F-	G	H			J	White Metal Strainer	Chrome Plate
52	2	4 1/2	7	4 1/2	1 1/8	1 5/8	2 3/4	3 1/2	7 1/4	5	2 1/4	2 3/4	16	\$16.00	\$2.00	\$.80
53	3	4 1/2	7	4 1/2	1 1/8	1 5/8	3 5/8	3 1/2	10 1/8	5	2 1/4	2 3/4	19	22.70	2.00	.80



JOSAM DOUBLE DRAINAGE SHALLOW TYPE FLOOR OR SHOWER STALL COMBINED DRAIN AND TRAP

U. S. GOVERNMENT TYPE

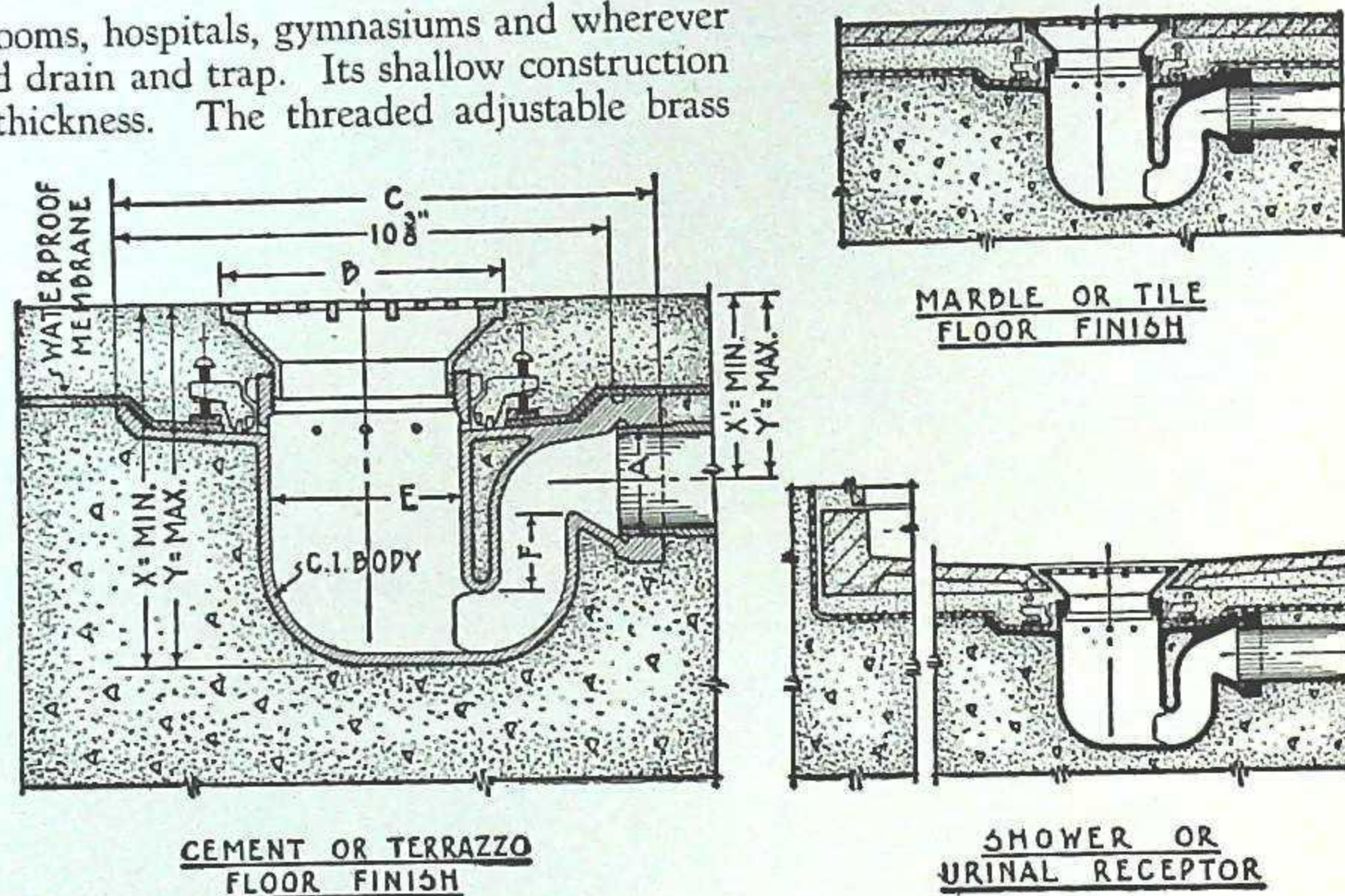
With or Without Flashing Clamping Device

SERIES 2000AC

For floors in shower stalls, wash or toilet rooms, hospitals, gymnasiums and wherever construction requires a shallow type combined drain and trap. Its shallow construction makes it adaptable for floors of minimum thickness. The threaded adjustable brass strainer provides means for meeting variation in level or thickness of floors. Strainers can be furnished in combination with this drain to fit all standard makes of receptors.

General Construction

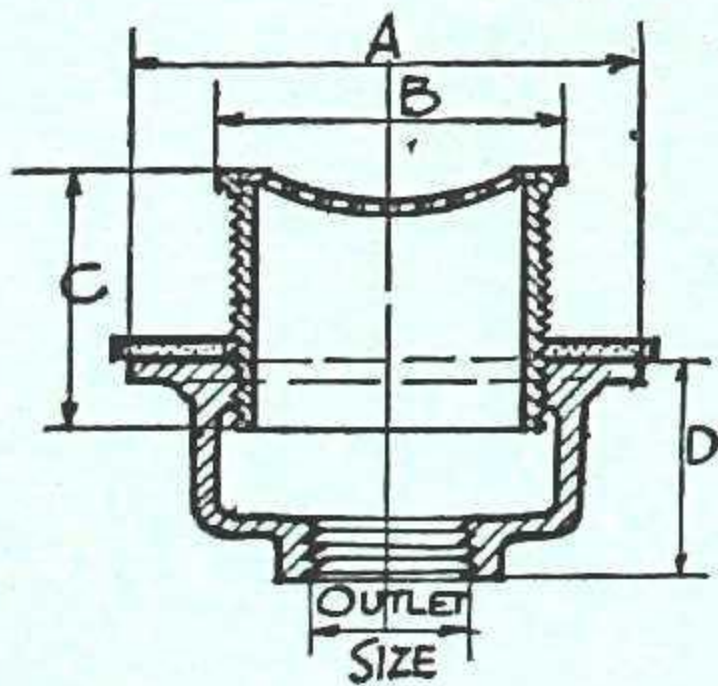
Cast iron japanned body with flashing clamping device, nickel-plated adjustable brass strainer, recessed female threaded outlet, unless otherwise ordered. Furnished with integral hub outlet or with adaptor for spigot connection when so ordered.



DIMENSIONS AND LIST PRICES

Type	All Dimensions in Inches										Weight, lbs.	C. I. Body, Brass Strainer		Add for		
	A Outlet	B Strainer		C	E	F	X	Y	X ¹	Y ¹		Jap'd	Galv.	All Brass	White Metal Strainer	Chrome Plate
2042AC	2	4 1/2	15K	12	4	1 1/2	6 3/4	9	3	5 1/4	20 1/2	\$13.50	\$17.00	\$25.00	\$1.75	\$0.70
2052AC	2	5	11K	12	4	1 1/2	6 3/4	7 1/2	3	3 3/4	19	14.00	17.50	25.50	2.00	.80
2062AC	2	6	12K	12	4	1 1/2	7 1/4	8	3 1/2	4 1/4	20	15.50	19.00	27.00	2.75	1.00
2043AC	3	4 1/2	15K	14 1/2	5	2	8 1/4	10 1/2	4	6 1/4	29 1/2	17.50	21.00	34.00	1.75	.70
2053AC	3	5	11K	14 1/2	5	2	8 1/4	9	4	4 3/4	28	18.00	21.50	34.50	2.00	.80
2063AC	3	6	12K	14 1/2	5	2	8 3/4	9 1/2	4 1/2	5 1/4	29	19.50	23.00	36.00	2.75	1.00
Without Clamping Device, deduct											1.00	1.50	2.50			

*Type strainer regularly furnished. Bodies threaded to receive strainer having 3/4-in. diameter shank or furnished with bushing to receive strainers having 3/8-in. or 2/2-in. diameter shank. See pages 12 and 13 for prices and information on strainers other than regularly furnished.



JOSAM ALL BRASS SHOWER OR URINAL DRAIN

SERIES 30

Conforms to U. S. Govt. Specifications
WWP-541, E-10; (1) Fig. 73. No. 448, Fig. 2, Detail 1.

General Construction

All cast brass body with removable nickel-plated adjustable brass concave strainer, female threaded outlet, unless otherwise ordered.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches						Weight, lbs.	With Concave Strainer	With Dome Strainer	Add for	
	Outlet	Strainer	A	B	C	D				White Metal Strainer	Chrome Plate
32	2	4 3/8	5 1/8	4 3/8	2 1/2	2 1/8	5 1/2	\$3.70	\$4.90	\$1.75	\$0.70
33	3	4 3/8	5 1/8	4 3/8	2 1/2	2 1/8	5 1/2	6.20	7.60	1.75	.70



JOSAM DOUBLE DRAINAGE FLOOR OR SHOWER STALL COMBINED DRAIN AND TRAP WITH ANGLE STRAINER AND ECCENTRIC BUSHING

With or Without Flashing Clamping Device

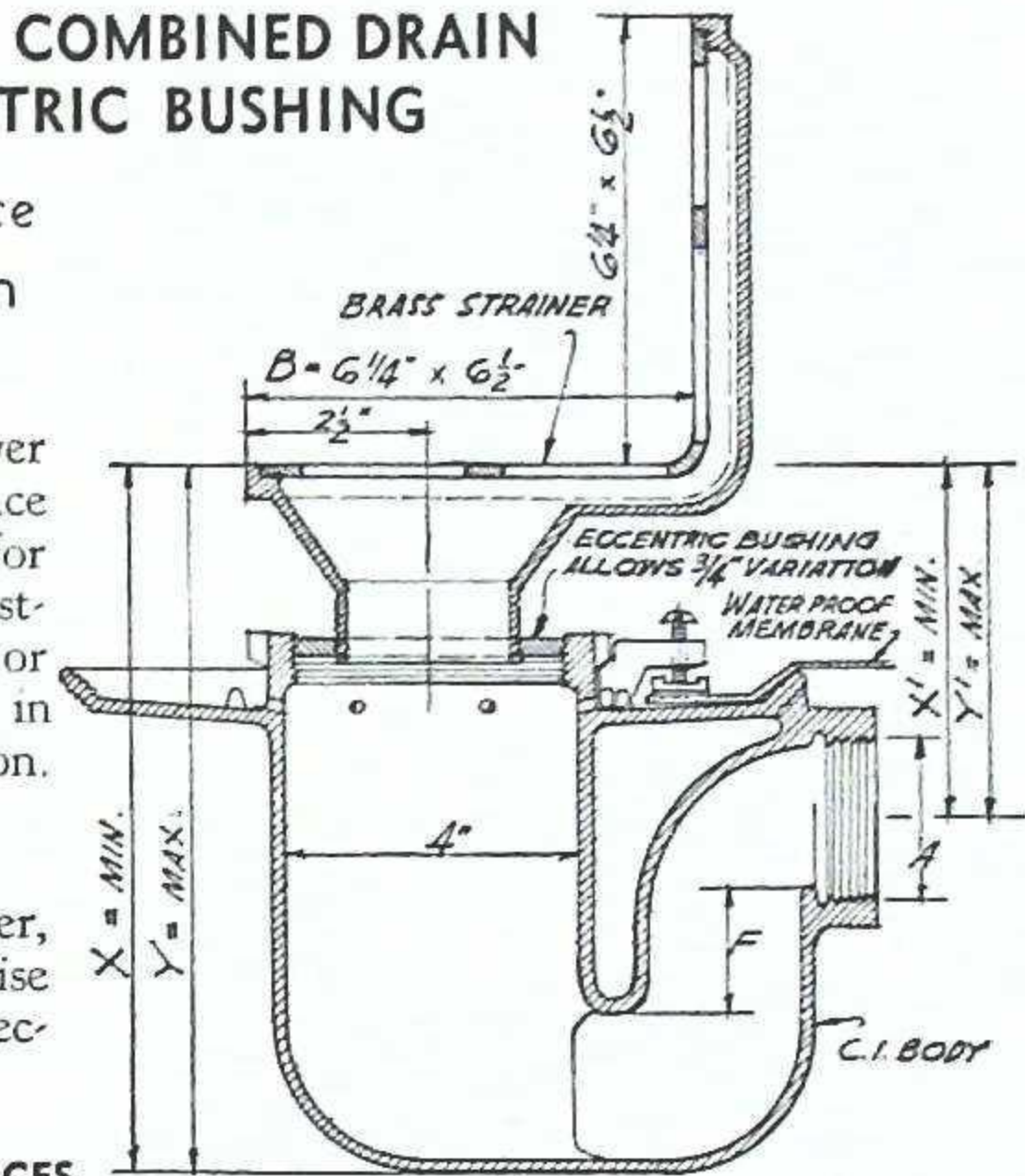
For Any Kind of Floor Construction

SERIES 1700

For floors in built-up shower stalls, janitor's closets, gutters and wherever a combined drain and trap with both vertical and horizontal drainage surface is desired in order to maintain drainage through the vertical surface if for any reason the horizontal surface becomes obstructed. The threaded adjustable brass angle strainer provides means for meeting variation in level or thickness of floors. The eccentric bushing provides lateral adjustment in locating strainer to a predetermined line in the base at floor construction.

General Construction

Cast iron japanned body, nickel-plated adjustable brass angle strainer, brass eccentric bushing, recessed female threaded outlet, unless otherwise ordered. Outlet can be furnished with adaptors for hub or spigot connection when so ordered.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches							Weight, lbs.	C. I. Body with Brass Strainer		Add for				
	A Outlet	B Strainer		C	F	X	Y		X ¹	Y ¹	Jap'd	Galv.	All Brass	White Metal Strainer	Chrome Plate
1701 1/2	1 1/2	3 3/8 x 4 3/8	42K	12	2 1/2	8 5/8	9 1/2	3 5/8	4 1/2	21	\$17.50	\$20.50	\$27.50	\$4.25	\$1.50
1702	2	3 3/8 x 4 3/8	42K	11 1/2	2 3/4	8 5/8	9 1/2	3 5/8	4 3/4	21	17.50	20.50	27.50	4.25	1.50
1703	3	3 3/8 x 4 3/8	42K	12 1/2	2 3/4	9 5/8	10 1/2	3 5/8	4 3/4	24 1/2	21.50	24.50	36.50	4.25	1.50
1704	4	3 3/8 x 4 3/8	42K	15 1/2	2 3/4	11 1/2	12 3/8	4 1/2	5 3/8	36	26.00	30.60	42.50	4.25	1.50
1711 1/2	1 1/2	6 1/2 x 6 1/2	43K	12	2 1/2	9 1/4	10 1/4	4 1/4	5 1/4	22	26.00	29.00	36.00	8.50	3.00
1712	2	6 1/2 x 6 1/2	43K	11 1/2	2 3/4	9 3/4	11 1/4	4 1/4	5 1/4	22	26.00	29.00	36.00	8.50	3.00
1713	3	6 1/2 x 6 1/2	43K	12 1/2	2 1/2	10 3/4	12	4 1/4	5 3/4	26	30.00	33.00	45.00	8.50	3.00
1714	4	6 1/2 x 6 1/2	43K	15 1/2	2 1/2	12 1/2	13 3/4	5 3/8	6 3/4	37	34.50	39.10	51.50	8.50	3.00
Clamping Device, add											1.00	1.50	2.50		

See pages 12 and 13 for prices and information on strainers other than regularly furnished.

JOSAM DOUBLE DRAINAGE FLOOR OR SHOWER STALL DRAIN WITHOUT TRAP WITH ANGLE STRAINER AND ECCENTRIC BUSHING

With or Without Flashing Clamping Device

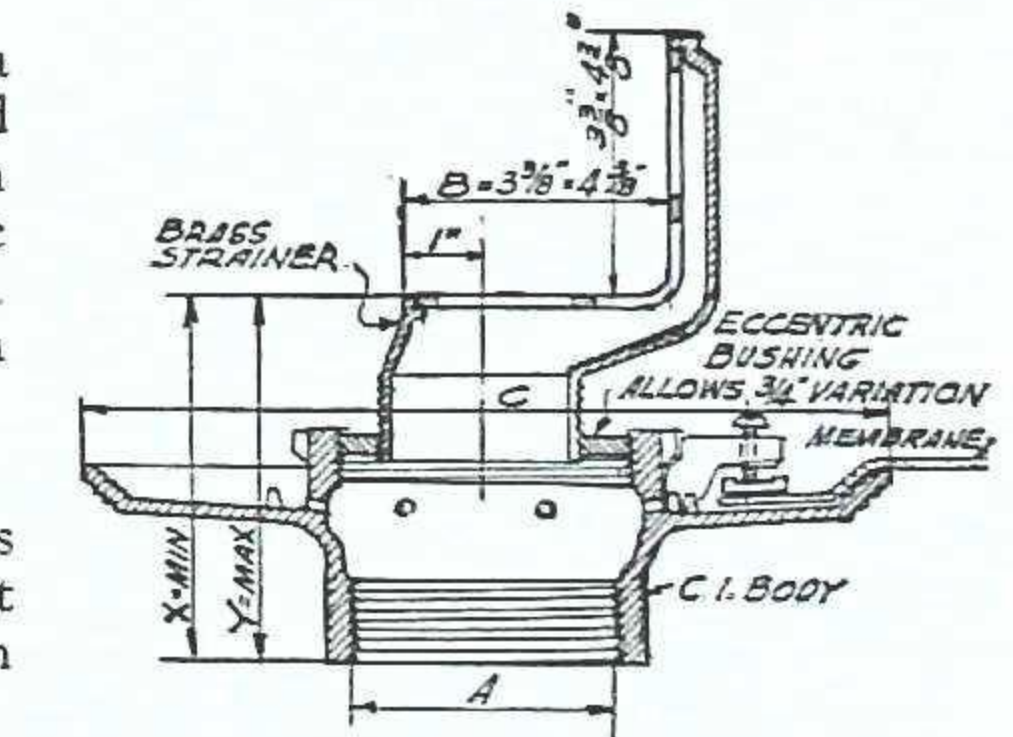
For Any Kind of Floor Construction

SERIES 1400

For use in built-up shower stalls, janitor's closets, gutters and wherever a drain without trap, with both vertical and horizontal drainage surface is desired in order to maintain drainage through the vertical surface if for any reason the horizontal surface becomes obstructed. The threaded adjustable brass angle strainer provides means for meeting variations in level or thickness of floors. The eccentric bushing provides lateral adjustment in locating strainer to a predetermined line in the base at floor construction.

General Construction

Cast iron japanned body, nickel-plated adjustable brass angle strainer, brass eccentric bushing, female threaded outlet, unless otherwise ordered. Outlet can be furnished for inside caulking or with adaptor for spigot connection when so ordered.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches						Weight, lbs.	C. I. Body, Brass Strainer		Add for					
	A Outlet	B Strainer		C	D	X		Y	Jap'd	Galv.	All Brass	White Metal Strainer	Chrome Plate		
1401 1/2	1 1/2	3 3/8 x 4 3/8	42K	7 3/4	1 1/2	3 3/4	4 1/2	8	\$12.00	\$13.00	\$16.50	\$4.25	\$1.50		
1402	2	3 3/8 x 4 3/8	42K	7 3/4	1 1/2	3 3/4	4 1/2	8	12.00	13.00	16.50	4.25	1.50		
1403	3	3 3/8 x 4 3/8	42K	9 1/4	1 1/2	3 3/4	4 1/2	11	13.50	15.00	19.50	4.25	1.50		
1404	4	3 3/8 x 4 3/8	42K	10 1/4	1 1/2	3 3/4	4 1/2	11	14.50	16.50	20.50	4.25	1.50		
1411 1/2	1 1/2	6 1/4 x 6 1/2	43K	9 1/4	1 1/2	3 3/4	5 1/2	11	20.50	21.50	25.00	8.50	3.00		
1412	2	6 1/4 x 6 1/2	43K	9 1/4	1 1/2	3 3/4	5 1/2	11	20.50	21.50	25.00	8.50	3.00		
1413	3	6 1/4 x 6 1/2	43K	9 1/4	1 1/2	3 3/4	5 1/2	11	22.00	23.50	28.00	8.50	3.00		
1414	4	6 1/4 x 6 1/2	43K	10 1/4	1 1/2	3 3/4	5 1/2	13	23.00	25.00	29.50	8.50	3.00		
Clamping Device, add											1.00	1.50	2.50		

*Type strainer regularly furnished. See pages 12 and 13 for prices and information on strainers other than regularly furnished.



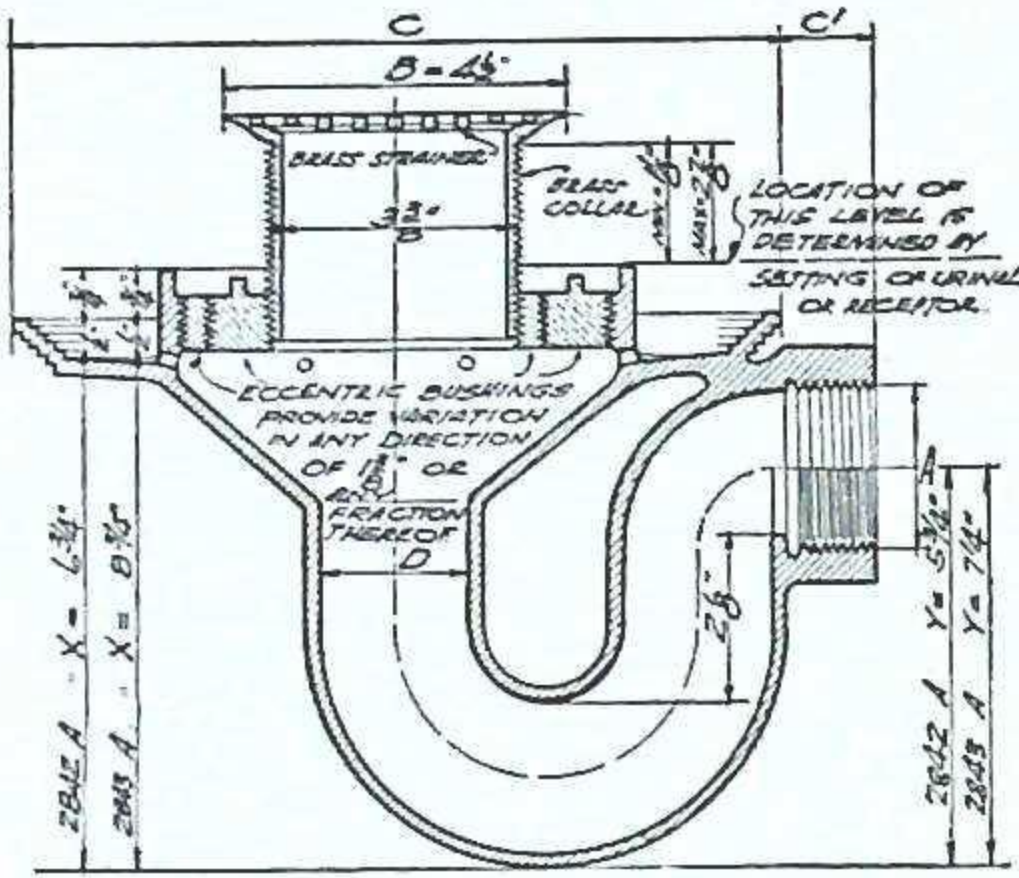
JOSAM DOUBLE DRAINAGE COMBINED DRAIN AND TRAP
With Adjustable Double Eccentric Brass Bushings
For Urinal Stalls and Shower Receptors
With or Without Flashing Clamping Device
For Any Kind of Floor Construction

SERIES 2800A

Especially adaptable when installation calls for two or more stalls. The double eccentric feature takes care of a total horizontal variation of 1 3/8 in. or fraction thereof in any direction at each stall, and assures positive connection at receptor openings regardless of variations in roughing in. Only one half turn of each bushing is necessary to obtain maximum adjustment. The threaded adjustable brass strainer provides means for meeting variation in level or thickness of floors. Strainers can be furnished to fit all standard makes of receptors.

General Construction

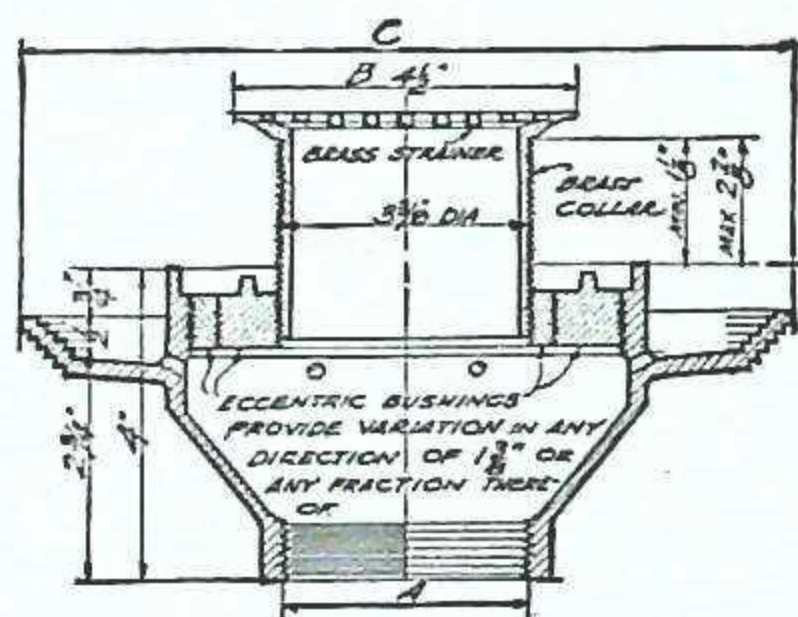
Cast iron japanned body with double eccentric brass bushings, nickel-plated adjustable brass strainer, recessed female threaded outlet, unless otherwise ordered. Outlet can be furnished with adaptors for hub or spigot connection when so ordered. Also furnished with beehive or dome strainers (see pages 4, 12 and 13).



JOSAM DOUBLE DRAINAGE DRAIN WITHOUT TRAP
With Adjustable Double Eccentric Brass Bushing
With or Without Flashing Clamping Device

SERIES 3000

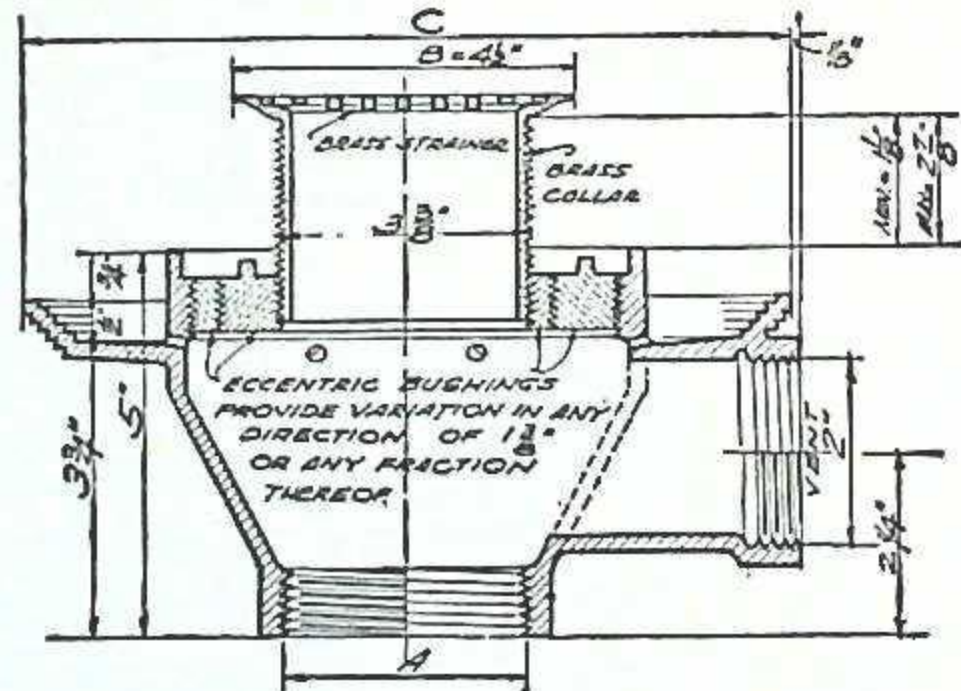
Identical in construction with Series 2800A except without trap. Has female threaded bottom outlet but can be furnished for inside caulking or with adaptor for spigot connection.



SERIES 3100A

With Vent Connection

Identical in construction with Series 2800A except without trap and furnished with a 2-in. threaded local vent. Female threaded bottom outlet, but can be furnished for inside caulking or with adaptor for spigot connection.



DIMENSIONS AND LIST PRICES

Type	A Outlet	Dimensions in Inches							Weight, lbs.	C. I. Body, Brass Strainer		All Brass	Add for	
		Strainer B		C	C'	D	X	Y		Jap'd	Galv.		White Metal Strainer	Chrome Plate
		Size, In.	Type											
2842A	2	4 1/2	15K	10 3/4	1 1/4	2	6 3/4	5 3/4	20	\$15.00	\$17.50	\$25.30	\$1.75	\$0.70
2843A	3	4 1/2	15K	10 3/4	1 3/8	3	8 3/4	7 1/4	30	18.00	21.00	33.00	1.75	.70
3042	2	4 1/2	15K	10 3/4	...	...	...	...	15	10.00	11.50	17.50	1.75	.70
3043	3	4 1/2	15K	10 3/4	...	...	...	...	16	11.00	12.80	19.00	1.75	.70
3142A	2	4 1/2	15K	10 3/4	...	...	...	...	17 1/2	12.00	13.50	19.50	1.75	.70
3143A	3	4 1/2	15K	10 3/4	...	...	...	...	17 1/2	13.00	14.80	21.00	1.75	.70
Clamping Device, add										1.50	2.00	3.50		



JOSAM ECCENTRIC REFRIGERATOR DRAIN

SERIES 20

Outlet placed eccentrically in body of drain so that the pan can be adjusted to meet variations of drain outlet from refrigerator. Eccentric feature allows for variation from 1 1/2-in. to 2-in. diameter for adjusting pan to outlet from refrigerator, depending on size drain. Strainer plate has two rows of holes, and is easily removable. Bell attached

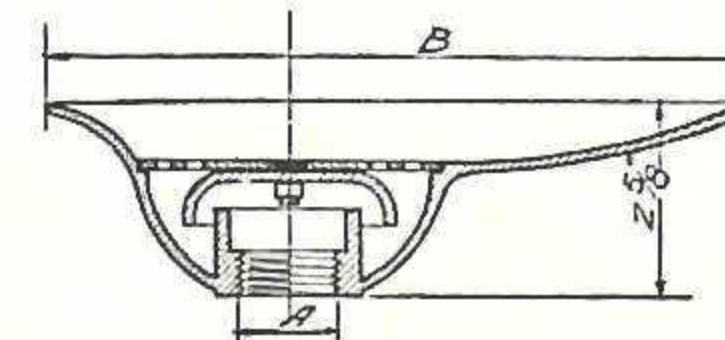
underneath strainer plate forms a water seal over the standing outlet in drain body.

General Construction

Cast iron galvanized body and strainer, female threaded outlet, unless otherwise ordered.

DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Pan, in.	Weight, lbs.	Cast Iron		All Brass
				Galv	Jap'd.	
20	1 1/4	8	4	\$2.30	\$1.80	\$5.00
21	1 1/2	8	4	2.30	1.80	5.00
22	1 3/4	10	4 1/2	2.70	2.20	7.00
23	1 1/2	10	4 1/2	2.70	2.20	7.00
24	2	10	6 1/2	3.20	2.60	8.50



JOSAM DOUBLE DRAINAGE REFRIGERATOR COMBINED DRAIN AND TRAP

With or Without Flashing Clamping Device
For Any Kind of Floor Construction

SERIES 40

For use in floors of built-up cork insulated refrigerators, cold storage, freezing and constant temperature rooms. 2-in. vertical adjustment in strainer shank accommodates various manufacturer's designs of refrigerator floor insulation.

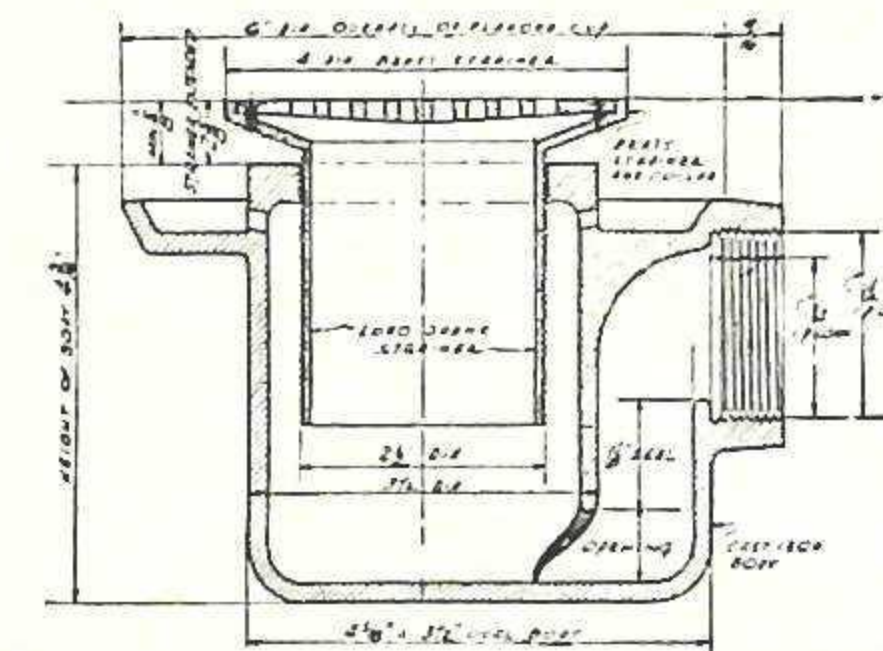
in the floor construction of refrigerator above the cork.

General Construction

Cast iron japanned body, nickel-plated brass adjustable extra long shank strainer, recessed female threaded outlet, unless otherwise ordered. Outlet can be furnished with adaptors for hub or spigot connection when so ordered.

DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Strainer		Weight, lbs.	C. I. Body, Brass Strainer		All Brass	Add for						
		Size, in.	Type		Jap'd.	Galv.		White Metal Strainer	Chrome Plate					
41 1/4	1 1/4	4	17K	8	\$6.50	\$8.00	\$15.00	\$1.50	\$0.60					
41 1/2	1 1/2	4	17K	8	6.50	8.00	15.00	1.50	.60					
42	2	4	17K	8	6.50	8.00	15.00	1.50	.60					
Clamping Device, add										1.00	1.50	2.50		



JOSAM ALL BRASS DOUBLE DRAINAGE REFRIGERATOR DRAIN WITH FLUSHING RIM
For Any Kind of Floor Construction

SERIES 60

For drip from refrigerators in refrigerator rooms in hospitals, club houses, residences and wherever a flushing rim refrigerator drain is required. Although this drain is only 6 1/2 in. in diameter at floor level, it provides the utmost in sanitation and cleanliness at the drain point from refrigerator. Removable hood dips into a sufficiently large water-sealed area. Entire inside area consists of rounded surfaces

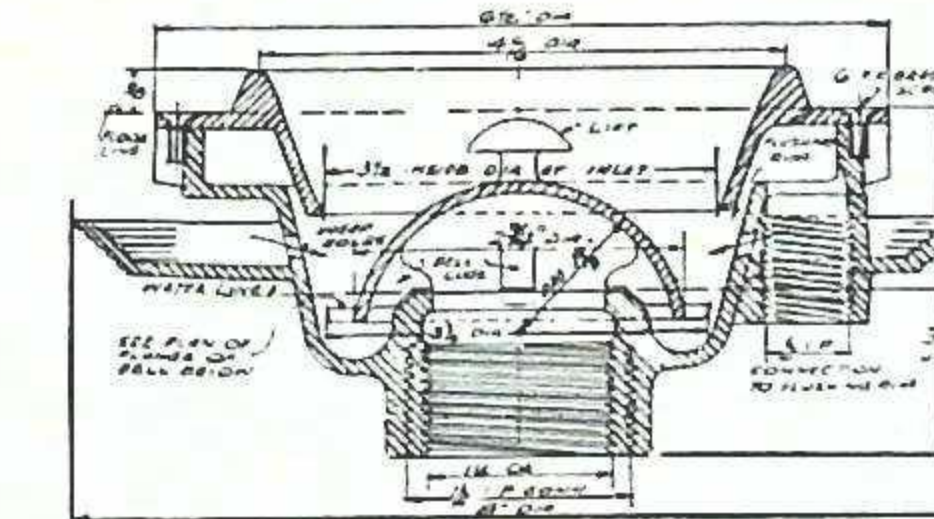
which insure easy cleaning and a sanitary drain at all times. Not adaptable for use as floor drain because rim flange extends 3/8 in. above floor level.

General Construction

All cast brass. Exterior parts polished brass. Female threaded outlet, 1/2-in. I.P. connection to flushing rim.

DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Weight, lbs.	All Brass	C. I. Body, Brass Rim and Hood	
				Jap'd.	Galv.
61 1/4	1 1/4	13 1/4	\$22.00	\$15.00	\$16.00
61 1/2	1 1/2	13 1/4	22.00	15.00	16.00



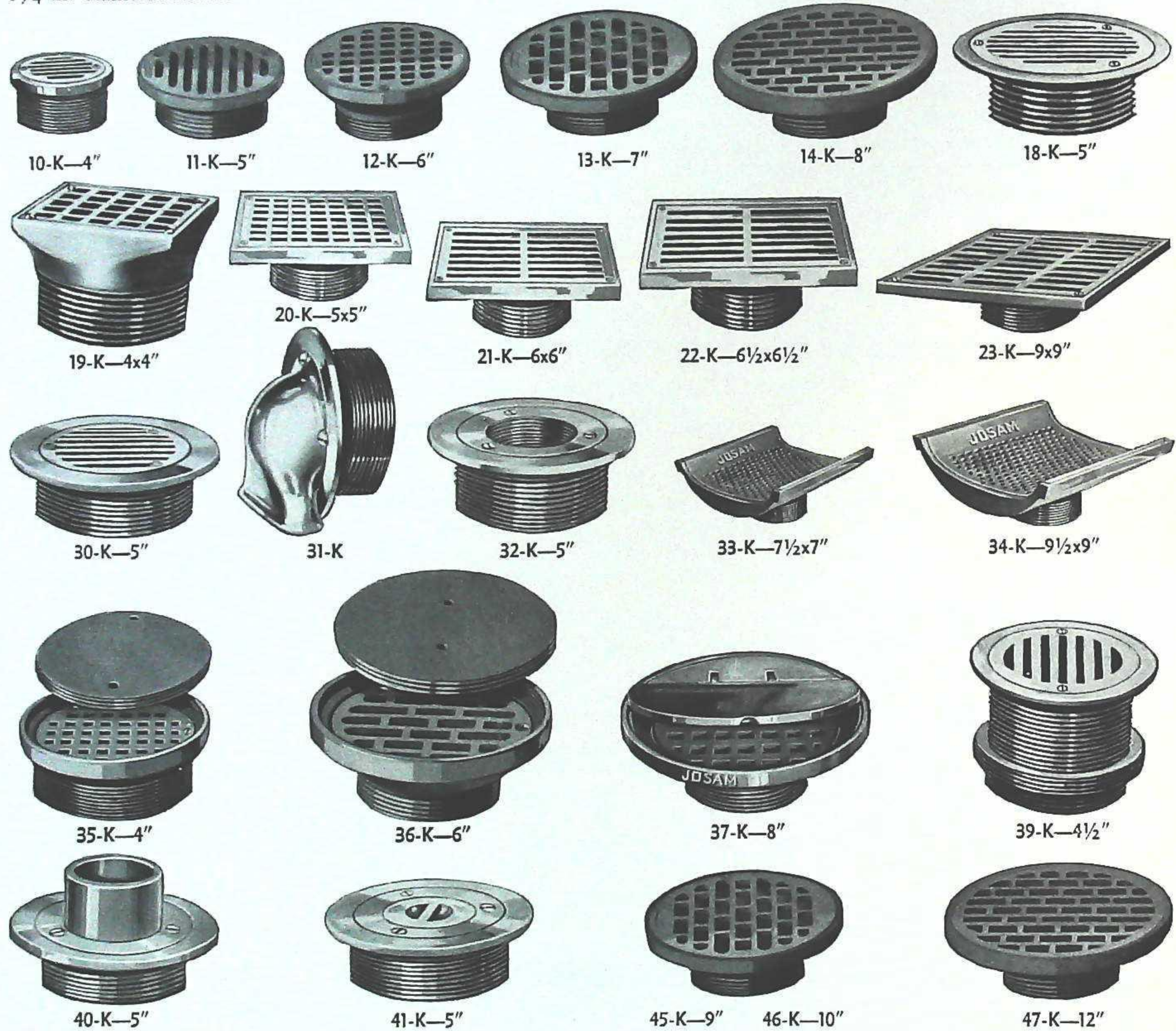


JOSAM ADJUSTABLE BRASS STRAINERS AND ACCESSORIES

Interchangeable to fit Josam Drain bodies illustrated on pages 4 to 11.

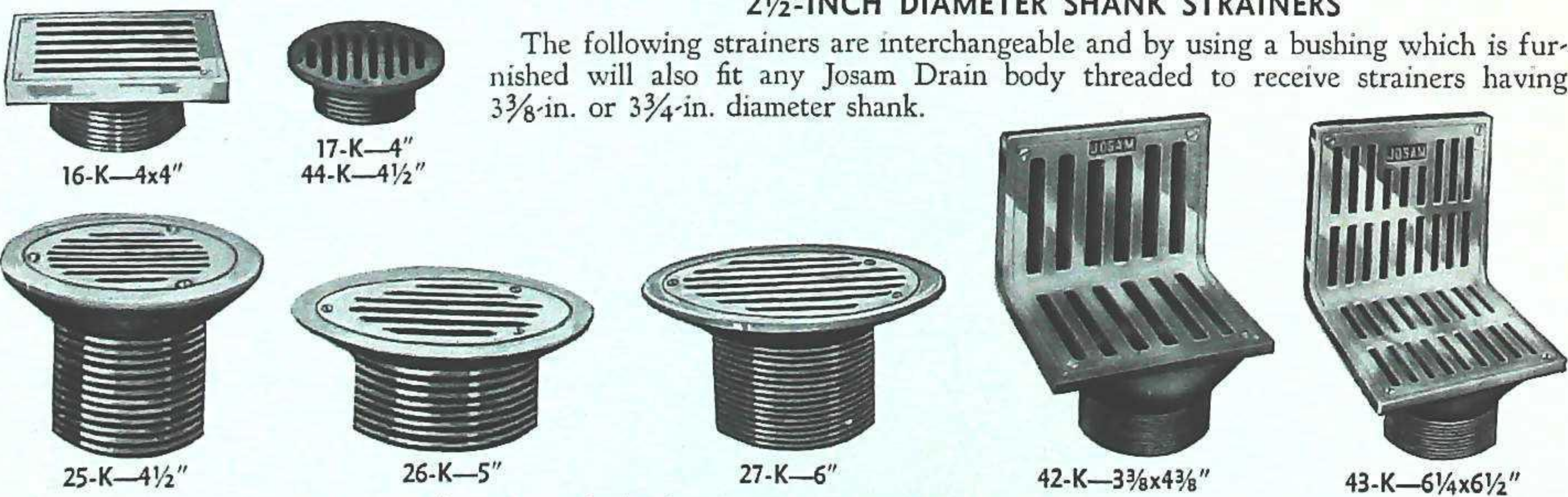
3/4-INCH DIAMETER SHANK STRAINERS

The following strainers are interchangeable and fit any Josam Drain body threaded to receive a strainer having 3/4-in. diameter shank.



2 1/2-INCH DIAMETER SHANK STRAINERS

The following strainers are interchangeable and by using a bushing which is furnished will also fit any Josam Drain body threaded to receive strainers having 3 3/8-in. or 3 3/4-in. diameter shank.



Above strainers regularly furnished as illustrated, nickel plated finish. See next page for prices on various types, sizes and finishes.



JOSAM ADJUSTABLE BRASS STRAINERS AND ACCESSORIES

LIST PRICE

Bold figures indicate list prices. Strainers regularly furnished as illustrated on opposite page. Light figures indicate list prices of variations when so ordered.

Type	Dimensions in Inches				Round— Nickel Plated or Polished Brass Finish							Square—Nickel Plated or Polished Brass Finish			Add for Chrome Plate	
	Top	Dia. Shank	Height Overall	Length Threaded Section								Hinged	Solid top	Solid top Hinged		
					Hinged	Solid top	Solid top Hinged	Dome	Bee- hive	Con- cave or Conv- ex						
10K	4	3/4	1 3/4	1 3/8	\$3.00	\$4.00	\$4.50	\$5.50	\$4.00	\$4.00	\$3.30	\$3.75	\$5.25	\$5.65	\$7.15	\$0.60
11K	5	3/4	1 3/4	7/8	4.00	5.00	6.00	7.00	5.35	5.35	4.40	5.00	6.50	7.50	9.00	.80
12K	6	3/4	2 3/8	1	5.50	6.50	8.25	9.25	7.35	7.35	6.05	6.90	8.40	10.35	11.85	1.00
13K	7	3/4	2 1/8	7/8	7.00	8.00	10.50	11.25	9.35	9.35	7.70	8.75	10.25	13.15	14.65	1.50
14K	8	3/4	2 1/4	1	8.50	9.50	12.75	13.75	11.35	11.35	9.35	10.40	11.90	15.60	17.10	2.00
15K	4 1/2	3 3/8	2 7/8	2 1/2	3.50	4.50	4.75	5.75	4.65	4.65	3.85	4.30	5.80	6.45	7.95	.70
16K	4x4	3 3/8	1 3/4	3/4								3.75	5.25	5.65	7.15	.60
17K	4	2 1/2	1 5/8	7/8	3.00	4.00	4.50	5.50	4.00	4.00	3.30	3.75	5.25	5.65	7.15	.60
18K	5	3 3/4	1 5/8	1 1/4	4.00	5.00	6.00	7.00	5.35	5.35	4.40	5.00	6.50	7.50	9.00	.80
19K	4x4	3 3/4	2 1/2	1 1/8								3.75	5.25	5.65	7.15	.60
20K	5x5	3 3/4	1 7/8	7/8								5.00	6.50	7.50	9.00	.80
21K	6x6	3 3/4	1 5/8	5/8								6.90	8.40	10.35	11.85	1.00
22K	6 1/2 x 6 1/2	3 3/4	1 5/8	5/8								7.80	9.30	11.70	13.20	1.25
23K	9x9	3 3/4	2 1/2	1								12.50	14.00	18.00	19.50	2.50
25K	4 1/2	2 1/2	3 1/8	2 1/2	3.50	4.50	4.75	5.75	4.65	4.65	3.85	4.30	5.80	6.45	7.95	.70
26K	5	2 1/2	1 7/8	7/8	4.00	5.00	6.00	7.00	5.35	5.35	4.40	5.00	6.50	7.50	9.00	.80
27K	6	2 1/2	2 1/8	1 1/8	5.50	6.50	8.25	9.25	7.35	7.35	6.05	6.90	8.40	10.35	11.85	1.00
28K	5	3 3/8	2 1/2	1 7/8	4.00	5.00	6.00	7.00	5.35	5.35	4.40	5.00	6.50	7.50	9.00	.80
29K	6	3 3/8	2 3/8	1	5.50	6.50	8.25	9.25	7.35	7.35	6.05	6.90	8.40	10.35	11.85	1.00
30K	5	3 3/4	1 5/8	1 1/4	4.00	5.00	6.00	7.00	5.35	5.35	4.40	5.00	6.50	7.50	9.00	.80
31K	5	3 3/4	1 5/8	1 3/8	6.00	Swimming Pool Inlet Connection										1.50
32K	5	3 3/4	1 3/8	1 3/8	5.50	Swimming Pool Vacuum Connection										1.00
33K	7 1/2 x 7	3 3/4	2 1/2 to 3 1/2	1								10.20				1.50
34K	9 1/2 x 9	3 3/4	2 5/8 to 4	1 1/4								13.75				2.50
35K	4	3 3/4	2 1/4	1 1/4			4.50									.60
36K	6	3 3/4	2 5/8	5/8			8.25									1.00
37K	8	3 3/4	3 1/2	1				13.75								2.00
38K	4 1/2	3 3/8	2 3/8	2	3.50	4.50	4.75	5.75	4.65	4.65	3.85	4.30	5.80	6.45	7.95	.70
39K	4 1/2	3 3/4	2 3/8	2	3.50	4.50	4.75	5.75	4.65	4.65	3.85	4.30	5.80	6.45	7.95	.70
40K	5	3 3/4	1 5/8	1 3/8			6.00									.80
41K	5	3 3/4	1 5/8	1 3/8			6.00									.80
42K	3 3/8 x 4 3/8	2 1/2	2	1	8.50	Angle										1.50
43K	6 1/4 x 6 1/2	2 1/2	3 1/4	1 1/2	17.00	Angle										3.00
44K	4 1/2	2 1/2	1 5/8	7/8	3.50	4.50	4.75	5.75	4.65	4.65	3.85	4.30	5.80	6.45	7.95	.70
45K	9	3 3/4	2 1/4	1	10.00	11.00	15.00	16.00	13.35	13.35	11.00	12.50	12.75	18.75	20.00	2.50
46K	10	3 3/4	2 3/8	1 1/8	11.50	12.50	17.25	18.25	15.35	15.35	12.65	14.40	15.90	21.60	23.10	3.00
47K	12	3 3/4	2 1/2	1 1/4	17.00	18.00	25.50	26.50	22.65	22.65	18.70	21.25	22.75	31.90	33.40	4.00

Above strainers furnished in white metal at 50% additional list. EXTRA LENGTH THREADED SECTION (BRASS)—1st additional inch, add to List Price \$1.00. Each succeeding inch, add to List Price \$0.75.

EXTENSION PIECES

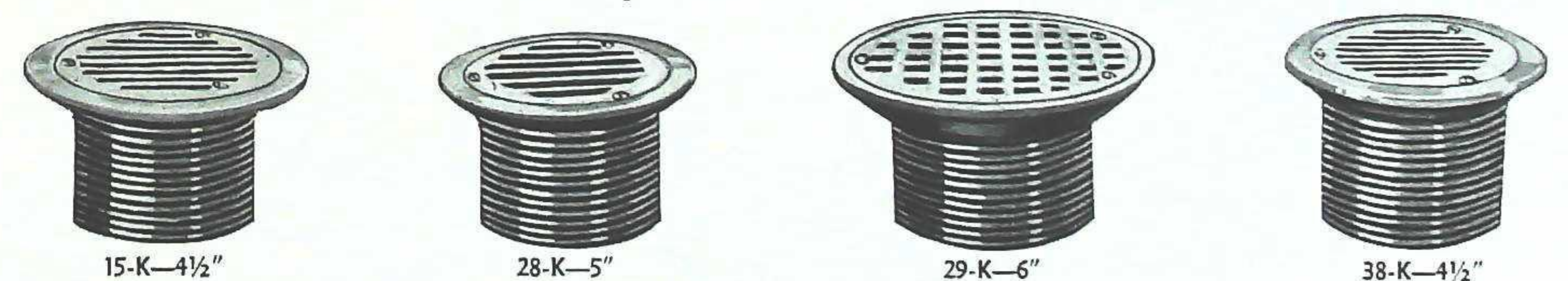
For use with any Josam Drain threaded to receive adjustable strainer, where extra long strainer shank is required.

Type	Shank Diameter, In.	Extends Length to In.	List Price	
			Brass	Cast Iron
2EP	2 1/2	3 1/2	\$2.50	\$1.25
3EP	3 3/4	3 1/2	3.50	1.75
4EP	3 3/4	6 to 12		3.00



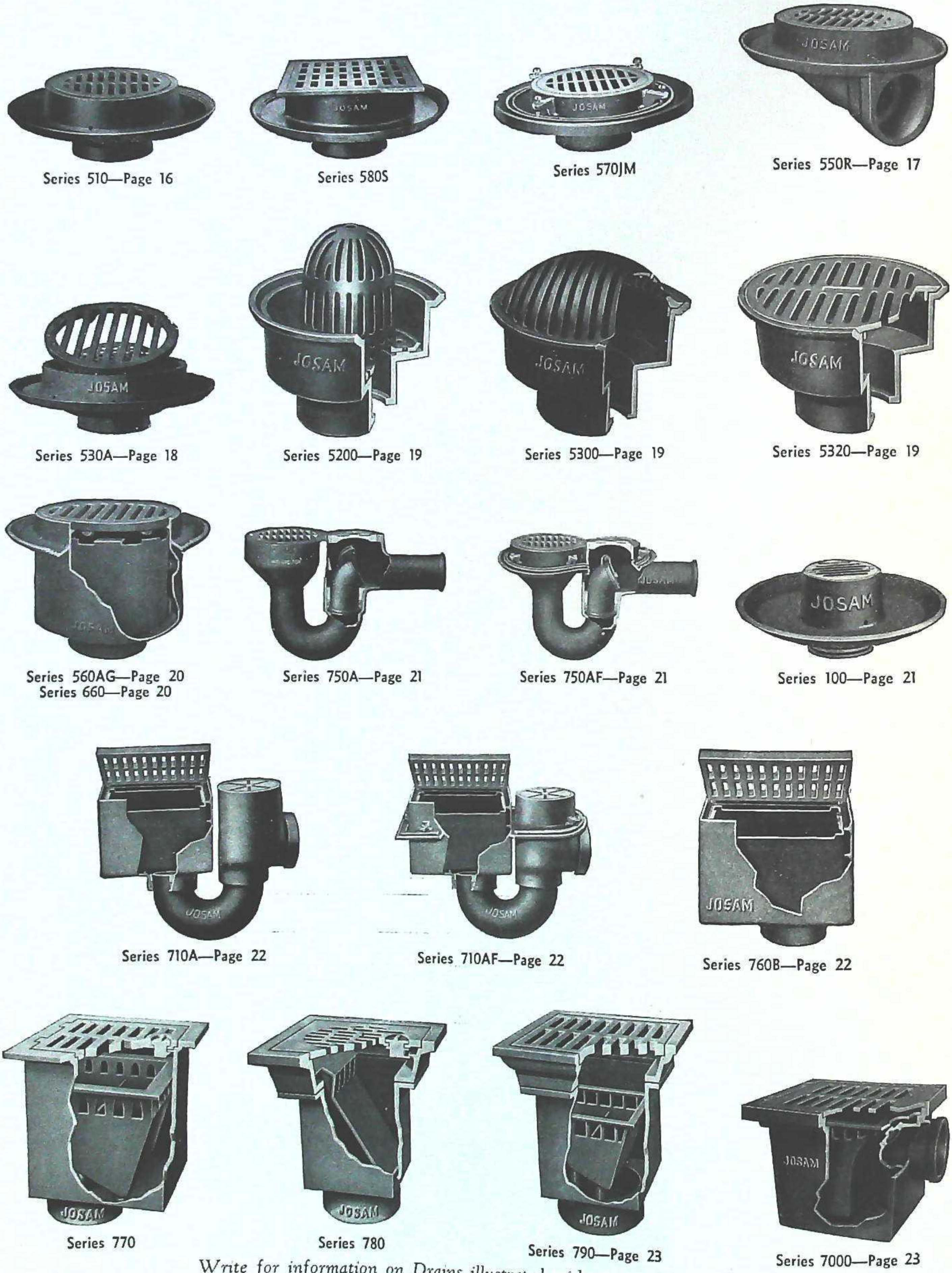
3/8-IN. DIAMETER SHANK STRAINERS

The following strainers are interchangeable and by using a bushing which is furnished will also fit any Josam Drain body threaded to receive strainer having 3/4-in. diameter shank.





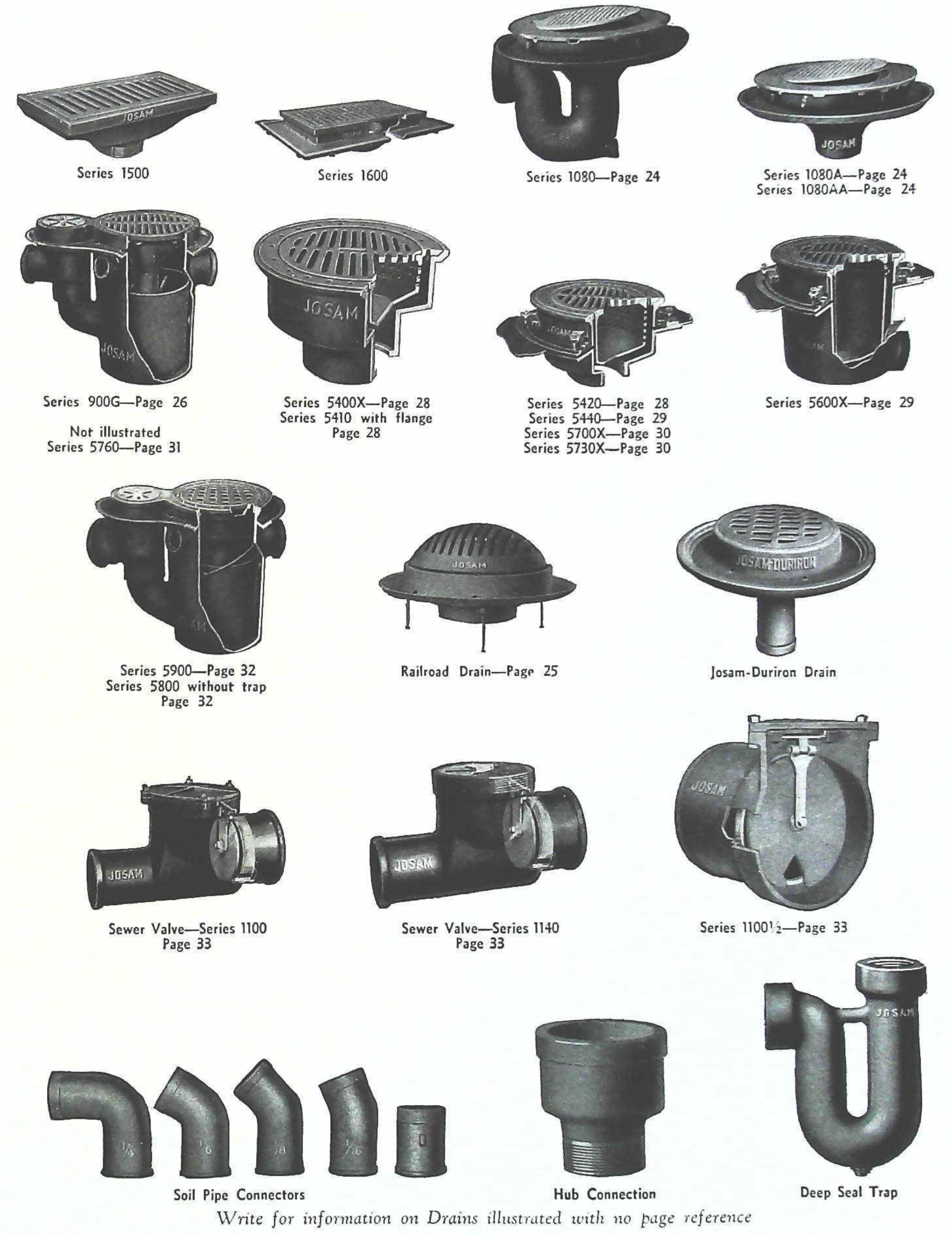
ILLUSTRATED INDEX OF JOSAM FLOOR DRAINS WITH ANTI-TILTING FLAT OR DOME GRATES



Write for information on Drains illustrated with no page references
[Page 14]



ILLUSTRATED INDEX OF JOSAM FLOOR DRAINS WITH ANTI-TILTING FLAT OR DOME GRATES (Continued)



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[Page 15]



JOSAM DOUBLE DRAINAGE FLOOR DRAIN OR CESSPOOL WITH ANTI-TILTING GRATE

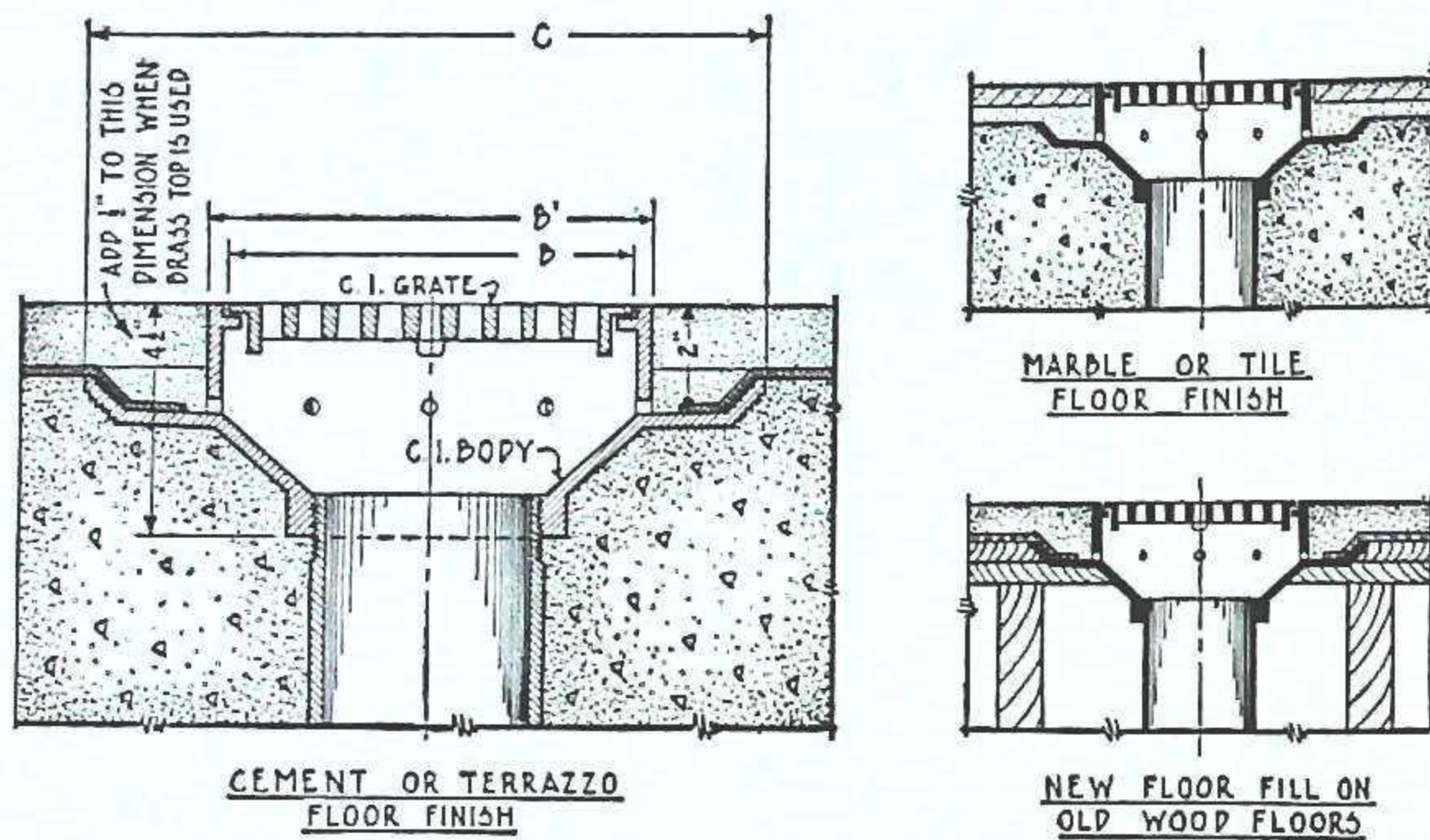
With or Without Flashing Clamping Device

For Any Kind of Floor Construction

SERIES 510

For floors in dairies, cold storage buildings, laundries, packing houses, warehouses, garages, basements, arcways, scale and elevator pits, and promenade roofs and decks where there is a large volume of clean water to be drained.

Especially recommended where shallow floors call for a drain with a low overall height. The large body and anti-tilting grate with ample free area, insure full water way to sewer. Also as main outlet drain in swimming pools as its large drainage area permits rapid emptying of pool water.



General Construction

Cast iron japanned body, anti-tilting grate, female threaded outlet, unless otherwise ordered. Outlet furnished for inside caulking or with adaptor for spigot connection, when so ordered. Spun copper ball back water valve in brass wire cage, furnished when ordered (see page 34 for details). 1/2-in. tapping for primer connection furnished when ordered. Additional height above double drainage flange, furnished when ordered. For similar drain with side outlet, see Series 550R, next page).

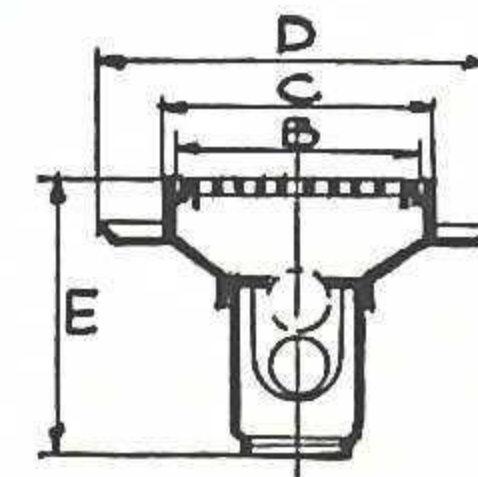
DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches				Weight, lbs.	Cast Iron		C. I. Body with Brass Top		All Brass	Add to Brass Top List Price for	
	A Outlet	B Grate	B ¹	C		Jap'd.	Galv.	Jap'd.	Galv.		White Metal Top	Chrome Plate
512	2	8	8 3/4	13 1/2	18	\$ 7.00	\$ 9.50	\$13.50	\$15.50	\$18.00	\$6.00	\$2.00
513	3	8	8 3/4	13 1/2	18	7.00	9.50	13.50	15.50	18.00	6.00	2.00
514	4	8	8 3/4	13 1/2	18	7.00	9.50	13.50	15.50	18.00	6.00	2.00
With Square Top and 8" Round Grate						7.35	10.00	14.20	16.30	18.90	6.30	2.10
Clamping Device, add						1.50	2.00	1.50	2.00	3.00		
Supplementary Strainer, add						1.00	1.50	1.00	1.50	2.50		
Grate						1.75	2.50	4.00	4.00	4.00		
Hinged Grate						2.75	3.50	5.00	5.00	5.00		
Locking Type Grate						2.75	3.50	5.00	5.00	5.00		
Dome Strainer						2.75	4.00	6.00	6.00	6.00		
Tide Water Strainer						4.25	6.00	8.50	8.50	8.50		
524	4	11	12 3/8	17	40	13.00	18.00	24.00	28.00	38.50	9.00	4.00
525	5	11	12 3/8	17	40	13.00	18.00	24.00	28.00	38.50	9.00	4.00
526	6	11	12 3/8	17	40	13.00	18.00	24.00	28.00	38.50	9.00	4.00
With Square Top and 11" Round Grate						13.65	18.90	25.20	29.40	40.45	9.45	4.20
Clamping Device, add						2.00	2.50	2.00	2.50	3.50		
Supplementary Strainer, add						1.50	2.00	1.50	2.00	3.00		
Grate						2.50	4.00	8.00	8.00	8.00		
Hinged Grate						3.50	5.00	9.00	9.00	9.00		
Locking Type Grate						3.50	5.00	9.00	9.00	9.00		
Dome Strainer						4.00	6.00	11.00	11.00	11.00		
Tide Water Strainer						5.50	8.00	13.50	13.50	13.50		
Back Water Valve, 2" outlet, add						4.00	5.00	4.00	5.00	10.00		
3" outlet, add						5.00	6.00	5.00	6.00	12.50		
4" outlet, add						6.00	7.00	6.00	7.00	15.00		
5" outlet, add						8.00	9.50	8.00	9.50	20.00		
6" outlet, add						8.00	9.50	8.00	9.50	20.00		



JOSAM DOUBLE DRAINAGE BASEMENT FLOOR DRAINS WITH BACK WATER VALVE

WAR DEPARTMENT SPECIFICATION
With or Without Deep Seal Trap
SERIES 510WD — SERIES 510T



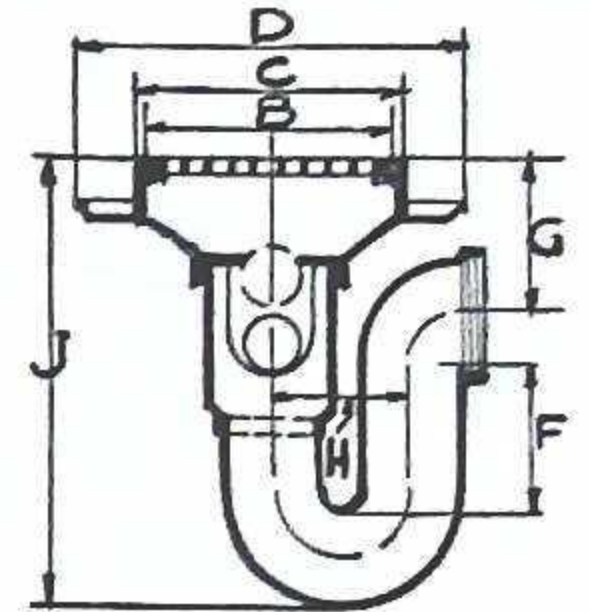
Series 510WD

"Shall be heavy cast iron double drainage pattern with weepholes, galvanized grate and 3 in. bottom outlet. Floor drains shall be installed in basement floors where directed by the Quartermaster General. Deep Seal Traps shall be installed in connection with floor drains and trap of drain shall be tapped above the water seal for 1/2 in. pipe connection from drain primer. All floor drains shall be installed complete with efficient back water valve."

General Construction

Series 510WD—Heavy cast iron japanned body, spun copper ball back water valve (see page 34 for details), galvanized anti-tilting removable grate, female threaded outlet, unless otherwise ordered. Outlet furnished with adaptor for spigot connection when so ordered.

Series 510T—Same construction except with deep seal trap.



Series 510T

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches										Wt., lbs.	With Back Water Valve				Add to Brass Top List Price for			
	A Outlet	B Grate	C	D	E	F	G	H	J	C. I. Body Galv.		C. I. Body Brass Top		All Brass	White Metal Top	Chrome Plate			
										Jap'd.		Galv.	Jap'd.				Galv.		
512WD	2	8	8 3/4	13 1/2	9 1/2						20	\$11.75	\$11.00	\$14.50	\$17.50	\$20.00	\$28.00	\$6.00	\$2.00
513WD	3	8	8 3/4	13 1/2	9 1/2						20 1/2	12.75	12.00	15.50	18.50	21.00	30.50	6.00	2.00
514WD	4	8	8 3/4	13 1/2	9 1/2						21 1/2	13.75	13.00	16.50	19.50	22.00	33.00	6.00	2.00
512T	2	8	8 3/4	13 1/2		4	6 3/4	6	14 1/4	28	15.25	14.50	19.50	20.50	25.00	38.50	6.00	2.00	
513T	3	8	8 3/4	13 1/2		5	6 1/4	7 1/2	16 3/8	35 1/2	18.75	18.00	23.50	24.50	29.00	45.50	6.00	2.00	
514T	4	8	8 3/4	13 1/2		5	5 3/4	9 1/2	17 1/4	49 1/2	23.75	23.00	30.50	29.50	36.00	58.00	6.00	2.00	
Grate											2.50	1.75	2.50	4.00	4.00	4.00			
Tapping for Primer Connection, add											1.00	1.00	1.00	1.00	1.00	1.00			
Clamping Device, add											1.50	1.50	2.00	1.50	2.00	3.00			

JOSAM DOUBLE DRAINAGE FLOOR DRAIN OR CESSPOOL WITH ANTI-TILTING GRATE

With or Without Flashing Clamping Device

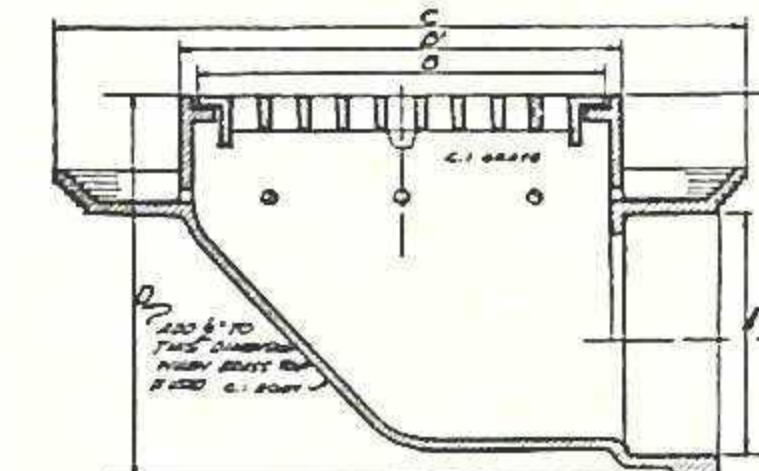
For Any Kind of Floor Construction

SERIES 550R

For use in shallow floors in dairies, laundries, packing houses, factories, warehouses, basement arcways, and wherever construction requires a shallow side outlet drain.

General Construction

Cast iron japanned body, anti-tilting grate, hub outlet, unless otherwise ordered. Outlet can be furnished female threaded or with adaptor for spigot connection when so ordered. Additional height above double drainage flange furnished when so specified.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches						Weight, lbs.	Cast Iron		C. I. Body, Brass Top		All Brass	Add to Brass Top List Price for	
	A Outlet	B Grate	B ¹	C	D	E		Jap'd.	Galv.	Jap'd.	Galv.		White Metal Top	Chrome Plate
552R	2	8	8 3/4	13 1/2	7	4 3/4	30	\$10.00	\$14.00	\$16.50	\$20.00	\$34.00	\$6.00	\$2.00
553R	3	8	8 3/4	13 1/2	7	4 1/4	30	10.00	14.00	16.50	20.00	34.00	6.00	2.00
Square Top with 8 in. Round Grate, 2" outlet								10.50	14.70	17.35	21.00	35.70	6.30	2.10
554R	4	8	8 3/4	13 1/2	8	4 3/4	33	12.00	16.50	18.00	21.50	38.00	6.00	2.00
Square Top with 8 in. Round Grate, 4 in. outlet								12.60	17.35	18.90	22.60	39.90	6.30	2.10
Clamping Device, add								1.50	2.00	1.50	2.00	3.00		
Supplementary Strainer, add								1.00	1.50	1.00	1.50	2.50		
Grate								1.75	2.50	4.00	4.00	4.00		
Hinged Grate								2.75	3.50	5.00	5.00	5.00		
Locking Type Grate								2.75	3.50	5.00	5.00	5.00		
Dome Strainer								2.75	4.00	6.00	6.00	6.00		
Tide Water Strainer								4.25	6.00	8.50	8.50	8.50		
555R	5	11	12 3/8	17	9 3/4	6 1/2	55	22.00	30.00	33.00	40.00	53.00	9.00	4.00
556R	6	11	12 3/8	17	9 3/4	6	55	22.00	30.00	33.00	40.00	53.00	9.00	4.00
Square Top with 11 in. Round Grate								23.10	31.50	34.65	42.00	55.65	9.45	4.20
Clamping Device, add								2.00	2.50	2.00	2.50	3.50		
Supplementary Strainer, add								1.50	2.00	1.50	2.00	3.00		
Grate								2.50	4.00	8.00	8.00	8.00		
Hinged Grate								3.50	5.00	9.00	9.00	9.00		
Locking Type Grate								3.50	5.00	9.00	9.00	9.00		
Dome Strainer								4.00	6.00	11.00	11.00	11.00		
Tide Water Strainer								5.50	8.00	13.50	13.50	13.50		

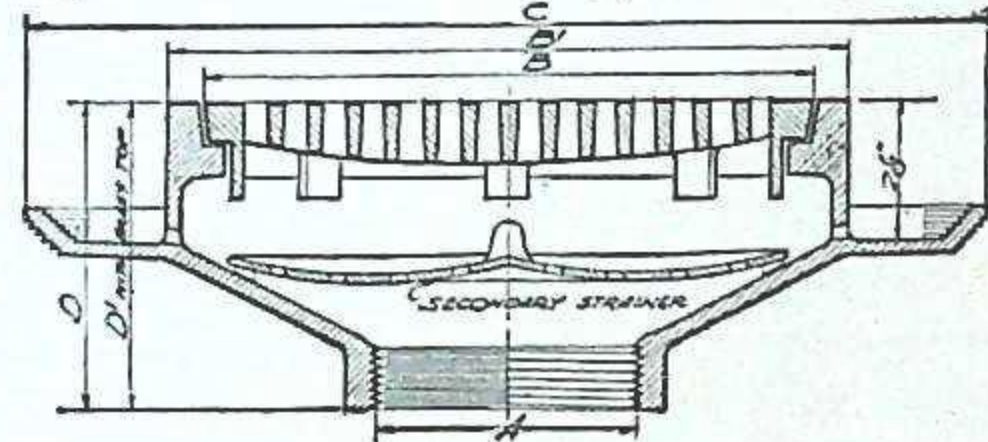


JOSAM DOUBLE DRAINAGE EXTRA HEAVY FLOOR DRAIN OR CESSPOOL WITH ANTI-TILTING GRATE AND SUPPLEMENTARY STRAINER

With or Without Flashing Clamping Device
For Any Kind of Floor Construction

SERIES 530A—10-IN. GRATE

For floors requiring large drainage facilities in packing houses, factories, warehouses, garages, areaways, basements, scale and elevator pits, cold storage rooms, dairies, laundries, and especially desirable where floor is subjected to heavy trucking. The removable perforated supplementary strainer prevents small particles which pass through the grate, from entering the sewer.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches						Weight, lbs.	Cast Iron		C. I. Body with Brass Top		All Brass	Add to Brass Top List Price for	
	A Outlet	B Grate	B ¹	C	D	D ¹		Jap'd.	Galv.	Jap'd.	Galv.		White Metal Top	Chrome Plate
SERIES 530A														
532A	2	10	11	15	5	5 1/2	40	\$14.50	\$19.50	\$25.50	\$29.50	\$40.00	\$9.00	\$4.00
533A	3	10	11	15	5	5 1/2	40	14.50	19.50	25.50	29.50	40.00	9.00	4.00
534A	4	10	11	15	5	5 1/2	40	14.50	19.50	25.50	29.50	40.00	9.00	4.00
With Square Top and 10" Round Grate, 2", 3", 4" outlet								15.25	20.50	26.80	31.00	42.00	9.45	4.20
With Side Outlet								18.10	24.35	31.85	36.90	50.00	9.00	4.00
With Side Outlet and Square Top								18.85	25.35	32.15	38.40	52.00	9.45	4.20
Clamping Device, add								2.00	2.50	2.00	2.50	3.50		
Without Supplementary Strainer, deduct								1.50	2.00	1.50	2.00	3.00		
Grate								3.00	4.50	8.00	8.00	8.00		
Hinged Grate								4.00	5.50	9.00	9.00	9.00		
Locking Type Grate								4.00	5.50	8.00	8.00	8.00		
Dome Strainer								5.00	7.00	15.00	15.00	15.00		
Tide Water Strainer								7.00	9.50	18.50	18.50	18.50		
SERIES 540A														
544A, 4, 14, 15 1/4, 19 1/4, 5, 5 5/8, 68								23.00	32.00	43.00	50.00	66.50	16.00	6.00
With Square Top and 14" Round Grate, 4" Outlet								24.15	33.60	45.15	52.50	69.85	16.80	6.30
With Side Outlet								28.75	40.00	53.75	62.50	83.10	16.00	6.00
With Side Outlet and Square Top								29.90	41.60	55.90	65.00	86.45	16.80	6.30
545A, 5, 14, 15 1/4, 19 1/4, 5, 5 5/8, 70								24.00	33.00	44.00	51.00	67.50	16.00	6.00
With Square Top and 14" Round Grate, 5" Outlet								25.20	34.65	46.20	53.55	70.90	16.80	6.30
With Side Outlet								30.00	41.25	55.00	63.75	84.35	16.00	6.00
With Side Outlet and Square Top								31.20	42.90	57.20	66.30	87.75	16.80	6.30
546A, 6, 14, 15 1/4, 19 1/4, 5, 5 5/8, 70								25.00	34.00	45.00	52.00	68.50	16.00	6.00
With Square Top and 14" Round Grate, 6" Outlet								26.25	35.70	47.25	54.60	71.95	16.80	6.30
With Side Outlet								31.25	42.50	56.25	65.00	85.65	16.00	6.00
With Side Outlet and Square Top								32.50	44.20	58.50	67.60	89.10	16.80	6.30
548A, 8, 14, 15 1/4, 19 1/4, 5 1/4, 5 7/8, 75								28.00	37.00	48.00	55.00	70.50	16.00	6.00
With Square Top and 14" Round Grate, 8" Outlet								29.40	38.85	50.40	57.75	74.00	16.80	6.30
With Side Outlet								35.00	46.25	60.00	68.75	88.10	16.00	6.00
With Side Outlet and Square Top								36.40	48.10	62.40	71.50	91.60	16.80	6.30
Clamping Device, add								2.50	3.00	3.50	3.00	4.00		
Without Supplementary Strainer, deduct								2.50	3.00	2.50	3.00	4.50		
Grate								4.50	6.50	13.00	13.00	13.00		
Hinged Grate								5.50	7.50	14.00	14.00	14.00		
Locking Type Grate								5.50	7.50	14.00	14.00	14.00		
Dome Strainer								8.00	12.50	22.00	22.00	22.00		
Tide Water Strainer								10.50	16.50	28.50	28.50	28.50		
Back Water Valve, 2" outlet, add								4.00	5.00	4.00	5.00	10.00		
3" outlet, add								5.00	6.00	5.00	6.00	12.50		
4" outlet, add								6.00	7.00	6.00	7.00	15.00		
5" outlet, add								8.00	9.50	8.00	9.50	20.00		
6" outlet, add								8.00	9.50	8.00	9.50	20.00		
8" outlet, add								12.00	15.00	12.00	15.00	30.00		
1/2" Tapping for Primer connection, add								1.00	1.00	1.00	1.00	1.00		

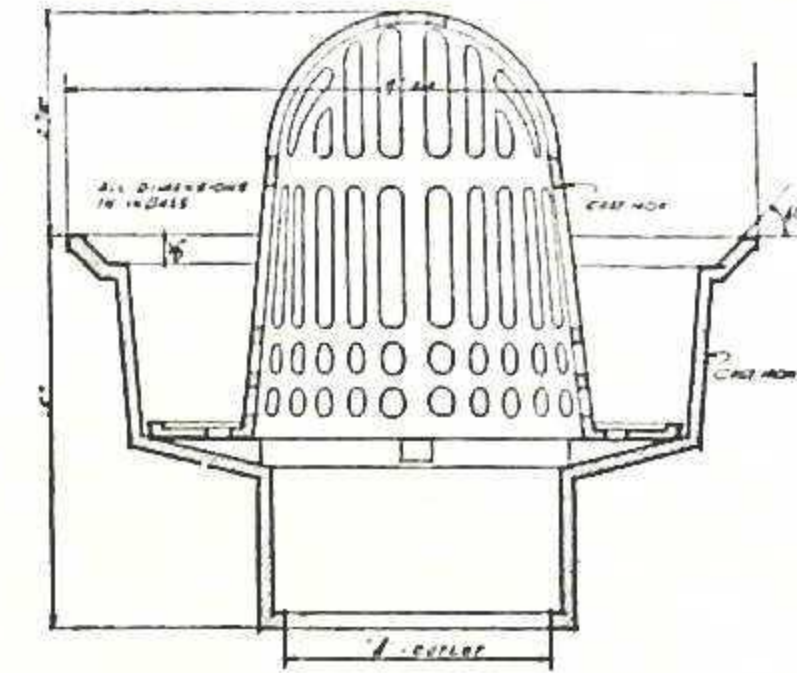


JOSAM AREA DRAIN WITH REMOVABLE COMBINED DOME STRAINER AND SEDIMENT CUP

For Any Kind of Floor Construction

SERIES 5200

For use in areaways, either open or covered by gratings, basements, sub-basements and driveways where there is a possibility of sediment and debris accumulating and where a moderately priced drain is desired.



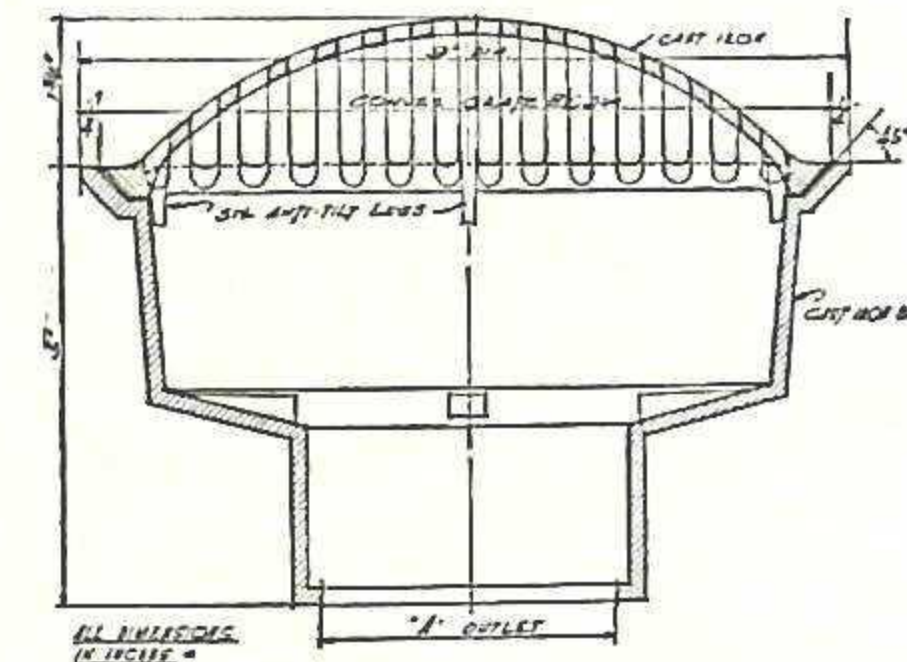
General Construction

Cast iron japanned body, removable combined dome strainer and sediment cup, outlet for inside caulking, unless otherwise ordered. Outlet can be furnished female threaded or with adaptor for spigot connection. Also furnished with side outlet, threaded or with adaptors for hub or spigot connection, when so ordered.

JOSAM AREA DRAIN WITH CONVEX GRATE

SERIES 5300

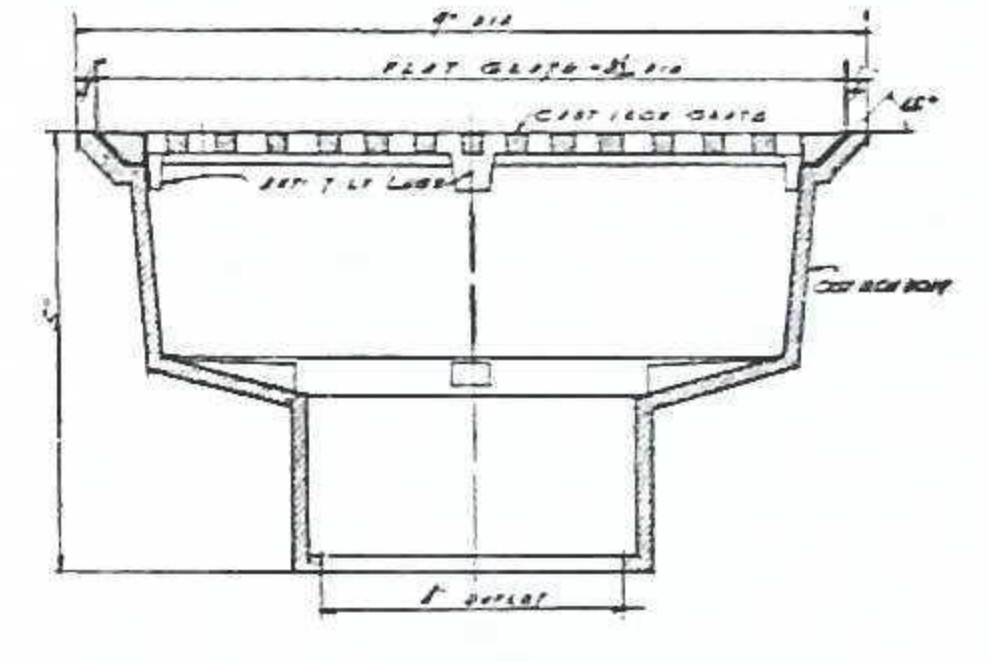
Identical in construction with Series 5200 except that Series 5300 has convex grate in place of dome strainer and sediment cup.



JOSAM AREA DRAIN WITH FLAT GRATE

SERIES 5320

Identical in construction with Series 5200 except that Series 5320 has flat grate in place of dome strainer and sediment cup.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches		Weight, lbs.	Cast Iron		C. I. Body with Brass Top		All Brass	Add to Brass Top List Price for	
	Outlet	Grate		Jap'd.	Galv.	Jap'd.	Galv.		White Metal Top	Chrome Plate
5202	2	Dome	11	\$3.75	\$5.00	\$9.50	\$10.75	\$12.00	\$6.00	\$2.00
5203	3	Dome	11	3.75	5.00	9.50	10.75	12.00	6.00	2.00
5204	4	Dome	11	3.75	5.00	9.50	10.75	12.00	6.00	2.00
With Square Top, 2", 3", 4"				3.95	5.25	9.95	11.30	12.60	6.30	2.10
With Side Outlet, 2", 3", 4"				4.70	6.25	11.90	13.45	15.00	6.00	2.00
With Side Outlet and Square Top, 2", 3", 4"				4.90	6.50	12.35	13.75	15.60	6.30	2.10
5302	2	8 1/2"	10 1/2"	3.75	5.00	9.50	10.75	12.00	6.00	2.00
5303	3	8 1/2"	10 1/2"	3.75	5.00	9.50	10.75	12.00	6.00	2.00
5304	4	8 1/2"	10 1/2"	3.75	5.00	9.50	10.75	12.00	6.00	2.00
With Square Top and 8 1/2" convex grate, 2", 3", 4" outlet				3.95	5.25	9.95	11.30	12.60	6.30	2.10
With Side Outlet, 2", 3", 4"				4.70	6.25	11.90	13.45	15.00	6.00	2.00
With Side Outlet and Square Top, 2", 3", 4"				4.90	6.50	12.35	13.75	15.60	6.30	2.10
5322	2	8 1/2"	10	3.75	5.00	9.50	10.75	12.00	6.00	2.00
5323	3	8 1/2"	10	3.75	5.00	9.50	10.75	12.00	6.00	2.00
5324	4	8 1/2"	10	3.75	5.00	9.50	10.75	12.00	6.00	2.00
With Square Top and 8 1/2" round grate, 2", 3", 4" outlet				3.95	5.25	9.95	11.30	12.60	6.30	2.10
With Side Outlet, 2", 3", 4"				4.70	6.25	11.90	13.45	15.00	6.00	2.00
With Side Outlet and Square Top, 2", 3", 4"				4.90	6.50	12.35	13.75	15.60	6.30	2.10



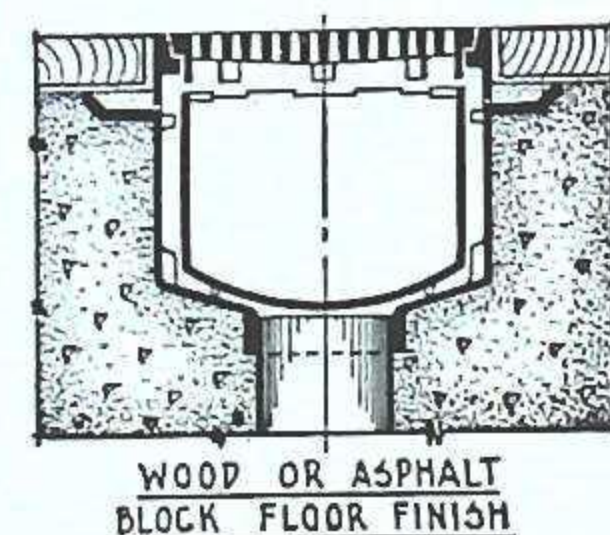
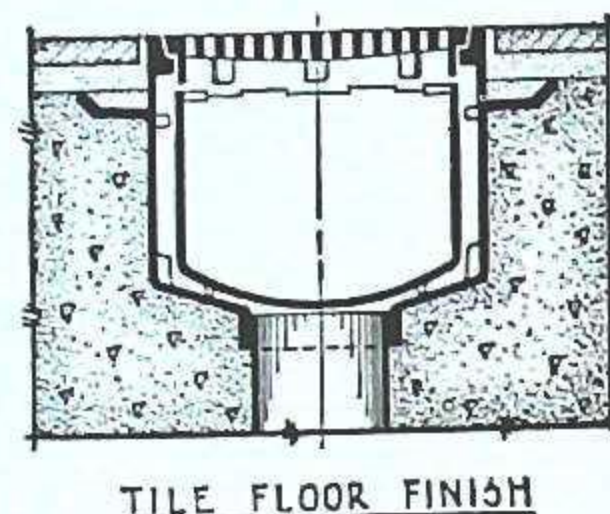
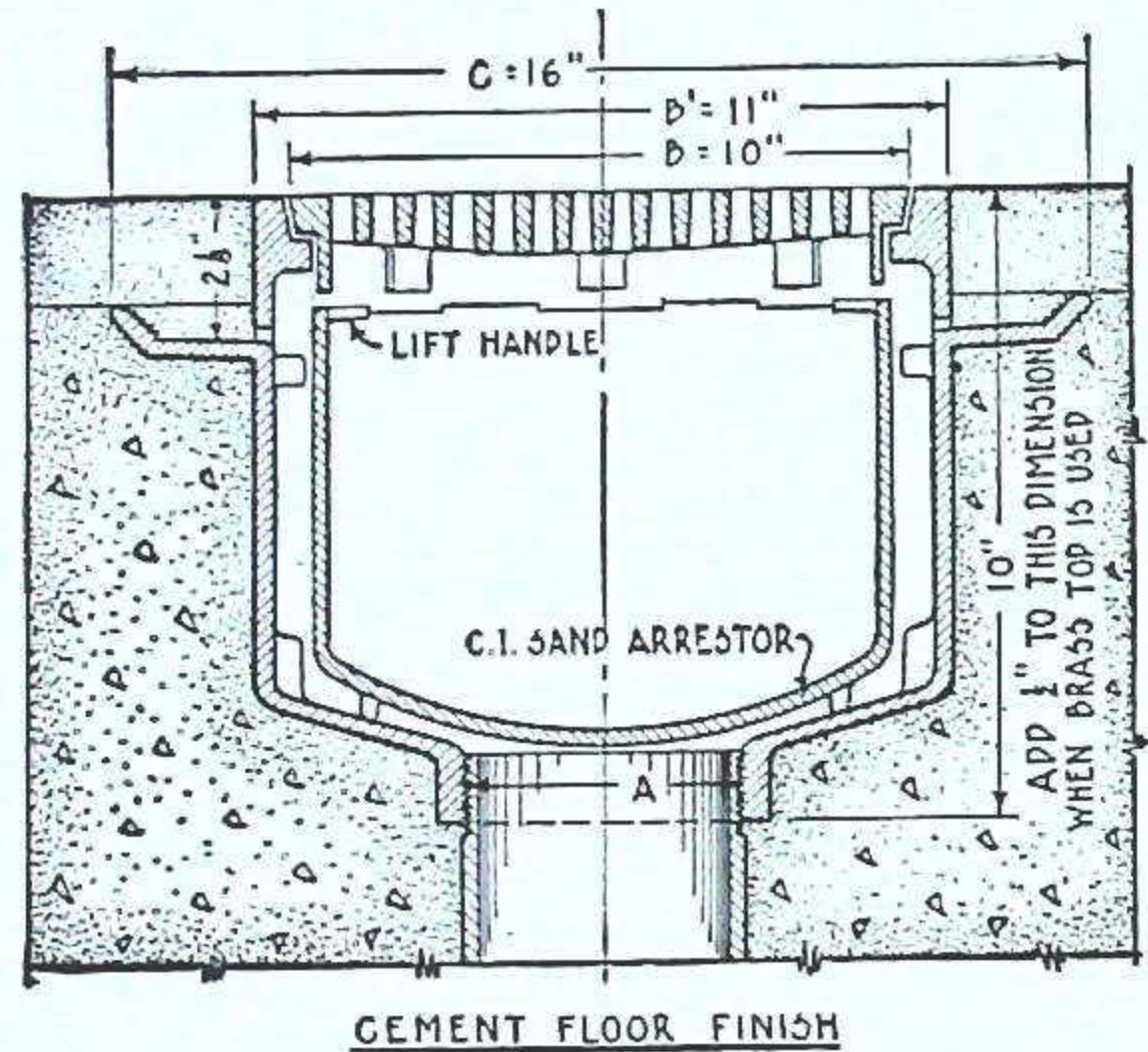
JOSAM DOUBLE DRAINAGE EXTRA HEAVY FLOOR DRAIN OR CESSPOOL WITH ANTI-TILTING GRATE AND REMOVABLE SEDIMENT BUCKET

With or Without Flashing Clamping Device
For Any Kind of Floor Construction

SERIES 560AG

For floors where large drainage facilities are required and where waste water contains quantities of sediment, in boiler rooms, coal rooms, ash pits, garages, industrial plants and wherever a heavy duty drain with an easily removable sediment bucket is required.

Sediment bucket has substantial grips which enable it to be easily lifted out for cleaning. This drain is of sufficient strength to withstand heavy trucking.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches					Weight, lbs.	Cast Iron		C. I. Body with Brass Top		All Brass	Add to Brass Top List Price for		
	A Outlet	B Grate	B'	C	Depth		Jap'd.	Galv.	Jap'd.	Galv.		White Metal Top	Chrome Plate	
SERIES 560AG														
562AG	2	10	11	10	16	59	\$21.50	\$30.50	\$32.50	\$40.00	\$65.00	\$9.00	\$4.00	
563AG	3	10	11	10	16	59	21.50	30.50	32.50	40.00	65.00	9.00	4.00	
564AG	4	10	11	10	16	59	21.50	30.50	32.50	40.00	65.00	9.00	4.00	
With Square Top and 10" Round Grate							22.60	32.00	34.15	42.00	68.25	9.45	4.20	
With Side Outlet							26.90	38.10	40.60	50.00	81.25	9.00	4.00	
With Side Outlet and Square Top							28.00	39.60	41.25	52.00	84.50	9.45	4.20	
Clamping Device, add							2.00	2.50	2.00	2.50	3.50			
Bucket							5.00	7.00	5.00	7.00	15.00			
Grate							3.00	4.50	8.00	8.00	8.00			
Hinged Grate							4.00	5.50	9.00	9.00	9.00			
Locking Type Grate							4.00	5.50	9.00	9.00	9.00			
Dome Strainer							5.00	7.00	15.00	15.00	15.00			
Tide Water Strainer							7.00	9.50	18.50	18.50	18.50			
Supplementary Strainer, add							1.50	2.00	1.50	2.00	3.00			

SERIES 660

664	4	14			13	129	43.50	55.00	63.50	73.00	97.50	16.00	6.00
665	5	14			13	129	43.50	55.00	63.50	73.00	97.50	16.00	6.00
666	6	14			13	129	43.50	55.00	63.50	73.00	97.50	16.00	6.00
With Square Top and 14 in. Round Grate							45.65	57.75	66.65	76.65	102.35	16.80	6.30
With Side Outlet							59.25	69.00	79.35	91.25	121.85	16.00	6.00
With Side Outlet and Square Top							61.40	71.75	82.50	94.90	126.70	16.80	6.30
Clamping Device, add							2.50	3.00	2.50	3.00	4.00		
Grate							4.50	6.50	13.00	13.00	13.00		
Hinged Grate							5.50	7.50	14.00	14.00	14.00		
Locking Type Grate							5.50	7.50	14.00	14.00	14.00		
Bucket							9.00	12.50	9.00	12.50	22.50		
Back Water Valve, 2" outlet, add							4.00	5.00	4.00	5.00	10.00		
3" outlet, add							5.00	6.00	5.00	6.00	12.50		
4" outlet, add							6.00	7.00	6.00	7.00	15.00		
5" outlet, add							8.00	9.50	8.00	9.50	20.00		
6" outlet, add							8.00	9.50	8.00	9.50	20.00		



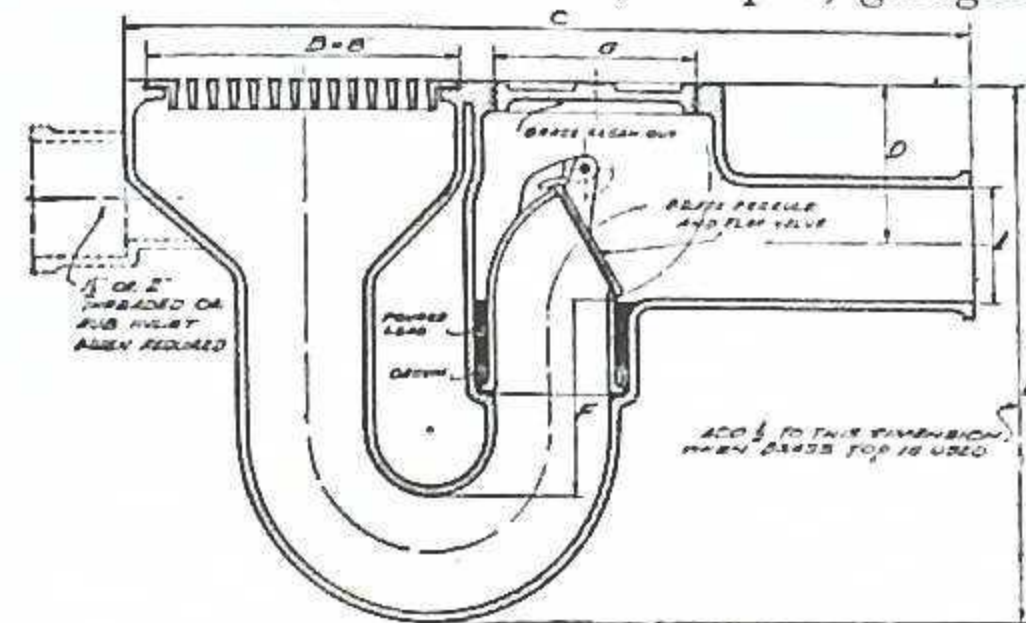
JOSAM COMBINED DRAIN AND DEEP SEAL TRAP WITH BACKWATER VALVE AND THREADED BRASS FLUSH CLEANOUT

With or Without Double Drainage Flange
For Any Kind of Floor Construction

SERIES 750A

For floors where a combined drain and double wall deep seal self-cleansing trap with flush cleanout is required, and where there is a possibility of back water through waste lines, in boiler rooms, coal rooms, ash pits, garages and in-

dustrial plants. The threaded brass cleanout plug on the outlet end of the trap is 2 in. larger in diameter than the outlet, sets flush with floor and is easily removed. Self-cleansing trap has no fouling space and due to its being same size as outlet, insures full water way. For details on back water valve, see page 34.



General Construction

Heavy cast iron japanned body, anti-tilting grate, threaded brass cleanout plug, all brass back water valve, spigot outlet, unless otherwise ordered. Outlet can be furnished threaded or with adaptor for hub connection when so ordered. Also furnished, when ordered, with 1 1/2-in. or 2-in. threaded, or 2-in. hub extra inlet at any point above water line.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches							Weight, lbs.	Cast Iron		C. I. Body with Brass Top		All Brass	Add to Brass Top List Price for	
	A Outlet	B Grate	C	D	E	F	G		Jap'd.	Galv.	Jap'd.	Galv.		White Metal Top	Chrome Plate
752A	2	8	20 3/4	4 1/4	11	4	4	40	\$14.00	\$18.00	\$21.50	\$25.00	\$32.00	\$6.00	\$2.00
753A	3	8	21 3/4	4	14	5	5	52	19.00	25.50	27.50	32.50	49.00	6.00	2.00
754A	4	8	23 3/4	4 1/2	16	5	6	70	26.50	36.00	36.00	43.50	72.40	6.00	2.00
With Double Drainage Flange—Series 750AF (See Illustrated Index Page 14.)															
752AF	2	8		4 1/4	11	4	4	44	18.00	24.50	25.50	31.50	44.00	6.00	2.00
753AF	3	8		4	14	5	5	50	23.00	32.00	31.50	39.00	61.00	6.00	2.00
754AF	4	8		4 1/2	16	5	6	74	30.50	42.00	40.00	50.00	84.40	6.00	2.00
Clamping Device, add									2.00	2.50	2.00	2.50	3.50		
Supplementary Strainer, add									1.00	1.50	1.00	1.50	2.50		
Grate, hinged									1.75	2.50	4.00	4.00	4.00		
Locking Type Grate									2.75	3.50	5.00	5.00	5.00		
Dome Strainer									2.75	3.50	5.00	5.00	5.00		
Tide Water Strainer									2.75	4.00	6.00	6.00	6.00		
Extra Inlet, add									4.25	6.00	8.50	8.50	8.50		
Without Brass Back Water Valve, 2" outlet, deduct									1.00	1.00	1.00	1.00	1.00		
3" outlet, deduct									4.00	4.00	4.00	4.00	4.00		
4" outlet, deduct									6.00	6.00	6.00	6.00	6.00		
									8.00	8.00	8.00	8.00	8.00		

JOSAM ALL BRASS DOUBLE DRAINAGE FLOOR OR SHOWER STALL DRAIN WITHOUT TRAP

With or Without Flashing Clamping Device
For Any Kind of Floor Construction

SERIES 100

For shower stalls or floors in residences, hotels, schools and similar types of buildings where lack of floor depth will not permit the use of a drain with trap and where strainer adjustability is not required.

General Construction

All brass body, nickel-plated brass strainer, female threaded outlet unless otherwise ordered.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches				Weight, lbs.	All Brass	Add for	
	A Outlet	B Strainer	C	D			White Metal Top	Chrome Plate
121 1/2	1 1/2	2 3/4	7 1/4	3	3 3/4	\$6.00	\$1.50	\$0.60
121 1/2 MF	{ 2" male }	2 3/4	7 1/4	3	3 3/4	6.50	1.50	.60
	{ 1 1/2" fe. }							
122	2	2 3/4	7 1/4	3	3 3/4	6.00	1.50	.60
132	2	3 1/4	7 1/4	3	4 1/2	7.00	1.50	.60
133	3	3 1/4	8 1/4	3	5 1/2	8.00	1.50	.60
143	3	4 1/8	9	3 1/8	5 3/4	9.50	1.50	.60
154	4	5 1/4	9 3/4	3 1/8	7 1/4	11.00	2.00	.80
Clamping Device, add						2.50		

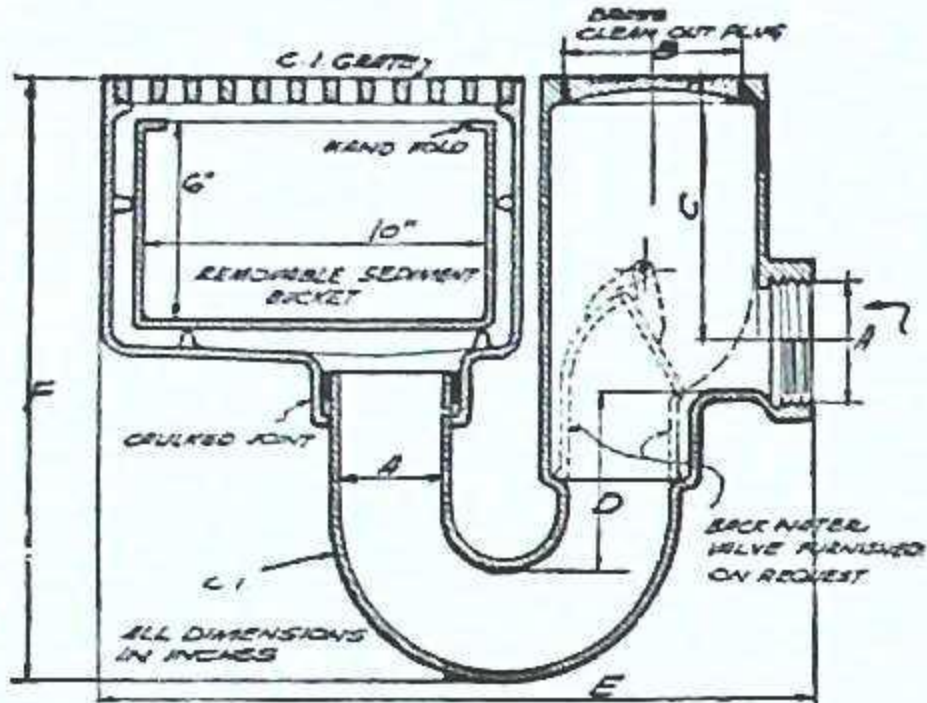


JOSAM COMBINED DRAIN AND DEEP SEAL TRAP WITH REMOVABLE SEDIMENT BUCKET AND THREADED BRASS CLEANOUT

With or Without Back Water Valve
For Any Kind of Floor Construction

SERIES 710A

For floors where large drainage facilities are required, where waste water contains quantities of sediment and where there is a possibility of back water through waste lines, in boiler rooms, coal rooms, ash pits, garages, industrial plants. Also wherever a heavy duty drain with an easily removable sediment bucket is required. The rounded corners of the sediment bucket eliminate fouling and the bucket is equipped with hand grips permitting easy removal for emptying. Open seal, self cleansing trap. Threaded brass cleanout plug sets flush with floor. For details of Back Water Valve see page 34.



General Construction

Heavy cast iron japanned body, hinged grate, removable bucket, threaded brass cleanout, recessed female threaded outlet, without brass back water valve, unless otherwise ordered. Outlet furnished with adaptors for hub or spigot connection when so ordered. Extra inlet on any side above water line, furnished when so ordered, 1/2-in. or 2-in. threaded, or 2-in. hub. Double Drainage Flange and flashing clamping device, furnished when so ordered.

DIMENSIONS AND LIST PRICES

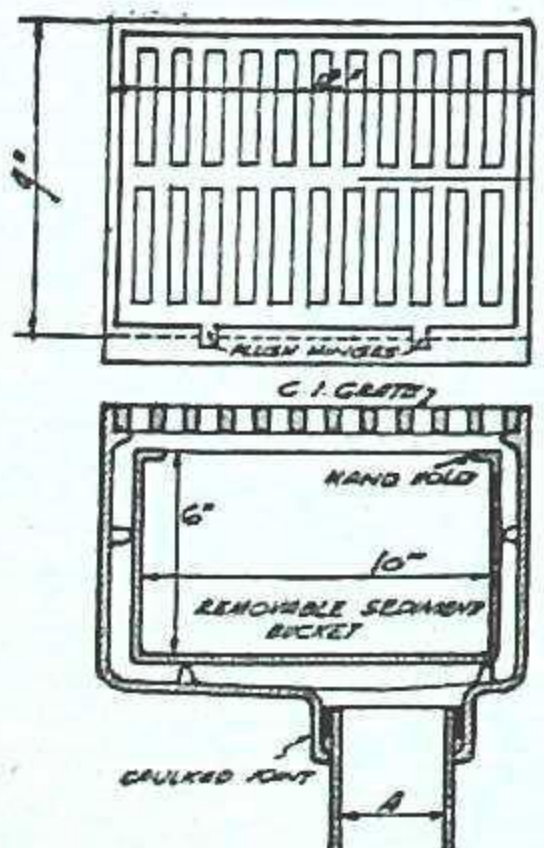
Type	Dimensions in Inches							Weight, lbs.	Cast Iron		C. I. Body with Brass Top		All Brass	Add to Brass Top List Price For	
	A Outlet	Grate	B	C	D	E	F		Jap'd.	Galv.	Jap'd.	Galv.		White Metal Top	Chrome Plate
712A	2	9x12	4	7 1/4	4	19	14 1/2	88	\$32.50	\$46.00	\$48.00	\$ 60.00	\$ 87.60	\$12.00	\$ 5.00
713A	3	9x12	5	7	5	20	17	97	35.00	48.00	52.00	64.50	96.40	12.00	5.00
714A	4	9x12	6	6 3/4	5	21	18	108	38.50	53.50	56.00	69.50	107.20	12.00	5.00
716A	6	9x12	8	6 1/2	5	28	20 1/2	128	70.00	87.00	82.50	99.00	140.00	12.00	5.00
With Double Drainage Flange—Series 710AF. (See Illustrated Index, Page 14.)															
712 AF	2	9x12	4	7 1/4	4	19	14 1/2	95	36.50	52.50	52.00	66.50	99.60	12.00	5.00
713 AF	3	9x12	5	7	5	20	17	107	39.00	54.50	56.00	71.00	108.40	12.00	5.00
714 AF	4	9x12	6	6 3/4	5	21	18	119	42.50	60.00	60.00	76.00	119.20	12.00	5.00
716 AF	6	9x12	8	6 1/2	5	28	20 1/2	140	74.00	93.50	86.50	105.50	152.00	12.00	5.00
Clamping Device, add.									2.00	2.50	2.00	2.50	3.50		
Grate, not hinged									2.50	4.00	10.50	10.50	10.50		
Hinged grate									4.00	5.50	12.00	12.00	12.00		
Bucket									5.50	7.50	5.50	7.50	15.00		
Extra Inlet, add.									1.00	1.00	1.00	1.00	1.00		
Back Water Valve, 2" outlet, add.									4.00	4.00	4.00	4.00	4.00		
3" outlet, add.									6.00	6.00	6.00	6.00	6.00		
4" outlet, add.									8.00	8.00	8.00	8.00	8.00		
6" outlet, add.									12.00	12.00	12.00	12.00	12.00		

JOSAM DRAIN WITH REMOVABLE SEDIMENT BUCKET
For Any Kind of Floor Construction

SERIES 760B

This drain is the box, sediment bucket and hinged grate tom outlet furnished for inside caulking, unless ordered with hub side outlet. Double Drainage Flange and clamping flashing device furnished when ordered.

DIMENSIONS AND LIST PRICES



Type	Outlet Size, in.	Grate size, in.	Weight, lbs.	Cast Iron		C. I. Body Brass Top		All Brass	Add to Brass Top List Price For	
				Jap'd.	Galv.	Jap'd.	Galv.		White Metal Top	Chrome Plate
762B	2	9x12	60	\$19.00	\$25.50	\$30.00	\$35.00	\$45.50	\$9.00	\$5.00
763B	3	9x12	60	19.00	25.50	30.00	35.00	54.50	9.00	5.00
764B	4	9x12	60	19.00	25.50	30.00	55.00	54.50	9.00	5.00
With Side Outlet...				23.75	31.85	37.00	43.75	68.10	9.00	5.00
765B	5	9x12	60	22.00	28.50	33.00	38.00	57.50	9.00	5.00
766B	6	9x12	60	22.00	28.50	33.00	38.00	57.50	9.00	5.00
With Side Outlet...				27.50	35.65	41.25	47.50	71.90		
Double Drainage Flange, add.				4.00	6.50	4.00	6.50	12.00		
Clamping Device, add.				2.00	2.50	2.00	2.50	3.50		
Grate, not hinged				2.50	4.00	10.50	10.50	10.50		
Hinged Grate				4.00	5.50	12.00	12.00	12.00		
Bucket				5.50	7.50	5.50	7.50	15.00		

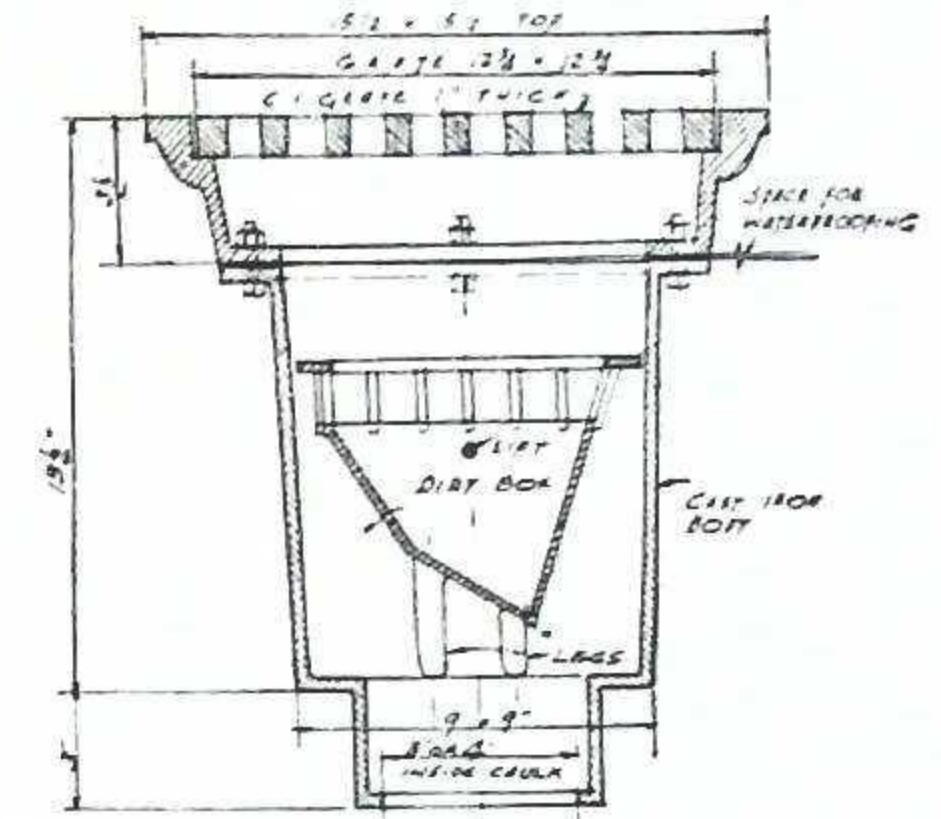


JOSAM HEAVY DUTY FLOOR DRAIN WITH REMOVABLE SEDIMENT BUCKET

For Any Kind of Floor Construction

SERIES 790

For use in floors in breweries, packing houses, stables, garages, manufacturing plants and wherever there is a large volume of waste water containing foreign matter which should be prevented from entering waste line. Body of drain is so constructed to receive lead or other water-proofing membrane. Extra heavy 1-in. thick grate gives ample waterway to drain. Sediment container is easily removed for cleaning.



General Construction

Heavy cast iron japanned body, grate and removable sediment container, bottom outlet for inside caulking, unless otherwise ordered. Bottom outlet furnished threaded or with adaptor for spigot connection, or side outlet furnished threaded, hub or spigot, when so ordered. Removable dam furnished in place of sediment container, when so ordered.

DIMENSIONS AND LIST PRICES

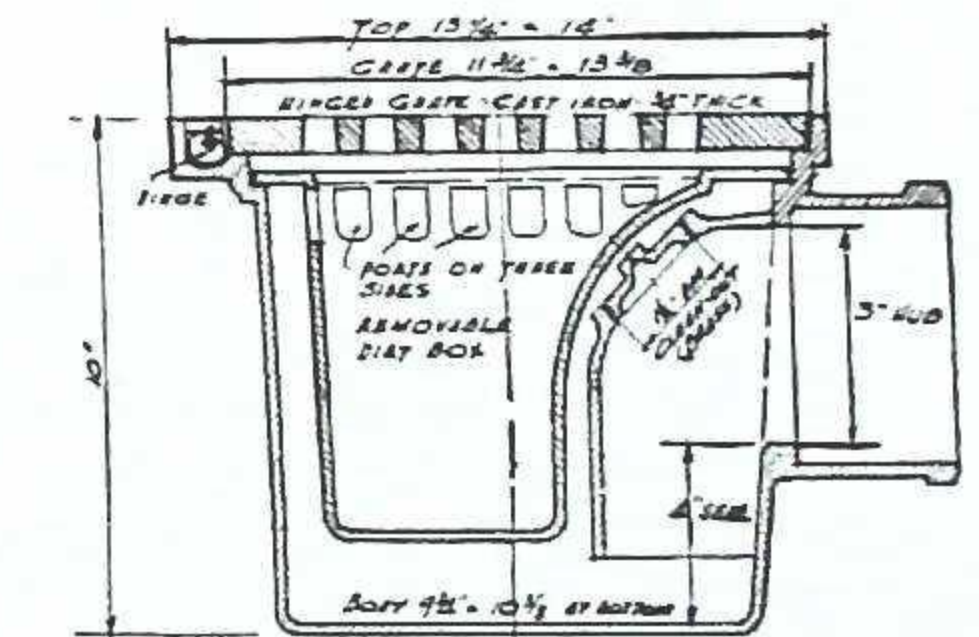
Type	Dimensions in Inches		Weight, lbs.	Cast Iron		C. I. Body with Brass Top		Add to Brass Top List Price for	
	Outlet	Grate		Jap'd.	Galv.	Jap'd.	Galv.	White Metal Top	Chrome Plate
793	3	12 3/4 x 12 3/4	90	\$42.00	\$54.00	\$64.00	\$76.00	\$16.00	\$6.00
794	4	12 3/4 x 12 3/4	90	42.00	54.00	64.00	76.00	16.00	6.00
795	5	12 3/4 x 12 3/4	90	42.00	54.00	64.00	76.00	16.00	6.00
Grate				4.50	6.50	11.50	11.50		
Hinged Grate				6.00	8.00	13.00	13.00		
Bucket				5.50	7.50	5.50	7.50		
Dam				3.00	4.50	3.00	4.50		

JOSAM EXTRA HEAVY FLOOR DRAIN AND SAND TRAP WITH REMOVABLE SEDIMENT CONTAINER, HINGED GRATE, INTERNAL BRASS CLEANOUT

For Any Kind of Floor Construction

SERIES 7000

For use in driveways, schools, breweries, bakeries, manufacturing plants and wherever a combined drain and trap with removable sediment container is desired and where waste water contains foreign matter which should be prevented from entering waste lines. The threaded brass cleanout in the trap leg above the water line affords easy cleaning of trap.



General Construction

Heavy cast iron japanned body, hub outlet, hinged grate, removable sediment container, threaded brass cleanout, unless otherwise ordered. Can be furnished with female threaded outlet or with adaptor for spigot connection. Furnished with double drainage flange and flashing clamping device when so ordered.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches		Weight, lbs.	Cast Iron		C. I. Body with Brass Top		Add to Brass Top List Price for	
	Outlet	Grate		Jap'd.	Galv.	Jap'd.	Galv.	White Metal Top	Chrome Plate
7003	3	11 3/4 x 13 3/8	60	\$24.00	\$33.50	\$46.00	\$54.00	\$15.00	\$5.00
7004	4	11 3/4 x 13 3/8	60	24.00	33.50	46.00	54.00	15.00	5.00
Double Drainage Flange, add.				6.00	8.50	6.00	8.50		
Clamping Device, add.				2.00	3.50	2.00	3.50		

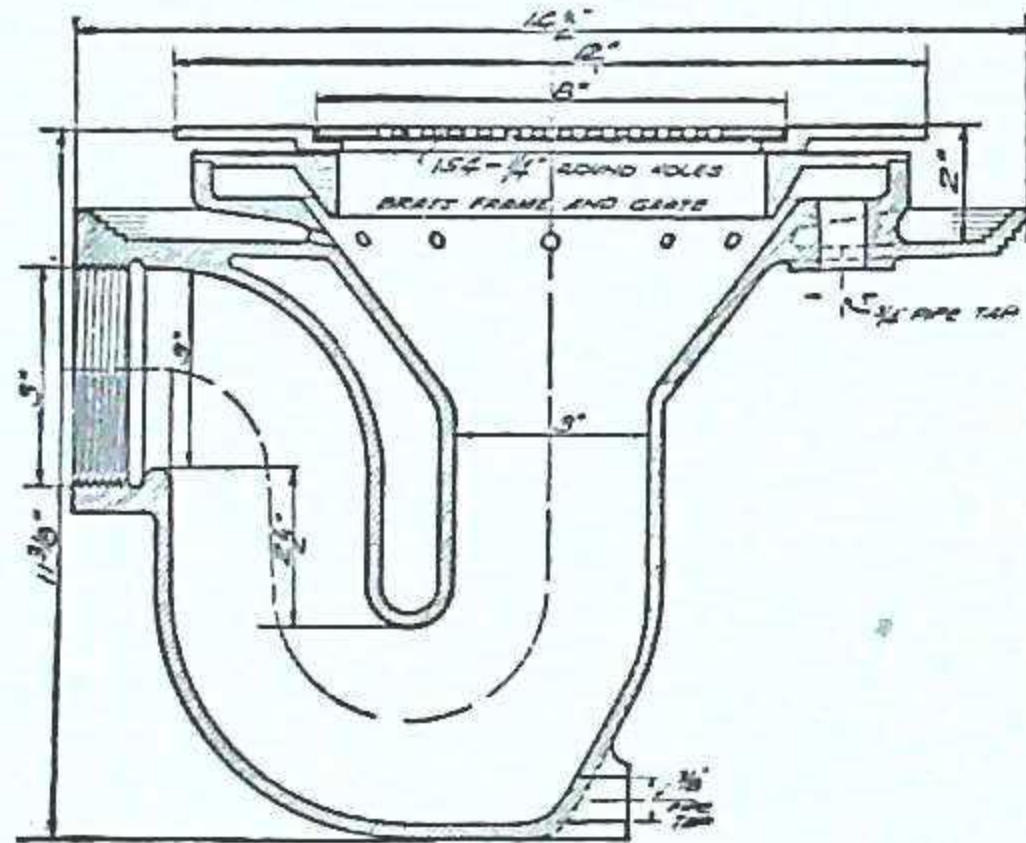


JOSAM DOUBLE DRAINAGE HOSPITAL DRAINS WITH BRASS TOP AND FLUSHING RIM

Absolutely Sanitary—White Enamel Interior
With or Without Trap—With or Without Flushing Clamping Device
For Any Kind of Floor Construction

**With Trap
SERIES 1080**

For use in hospital floors, operating rooms, refrigerator rooms, laboratories, public buildings, and in all floors where sanitation is important. The flushing rim and the baked white enamel interior, insure complete sanitation. Opening

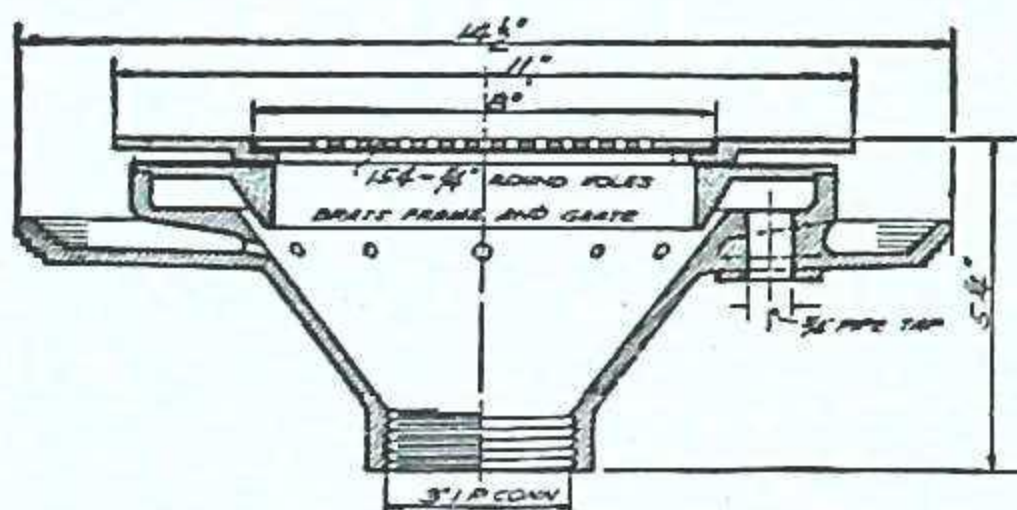


for jet is provided to permit trap to be easily flushed and cleaned. However, jet is not drilled through but can be drilled for any size that conditions and water pressure require. Trap is self-cleansing with no fouling spaces. Water in trap can easily be replenished and evaporation of seal water avoided. The hinged, removable, brass grate can be furnished with a 2-in. diameter hole in center, equipped with brass plug or stopper, flush with top of grate. Plug can be removed when it is desired to empty a portable or collapsible bath tub directly into the drain.

General Construction

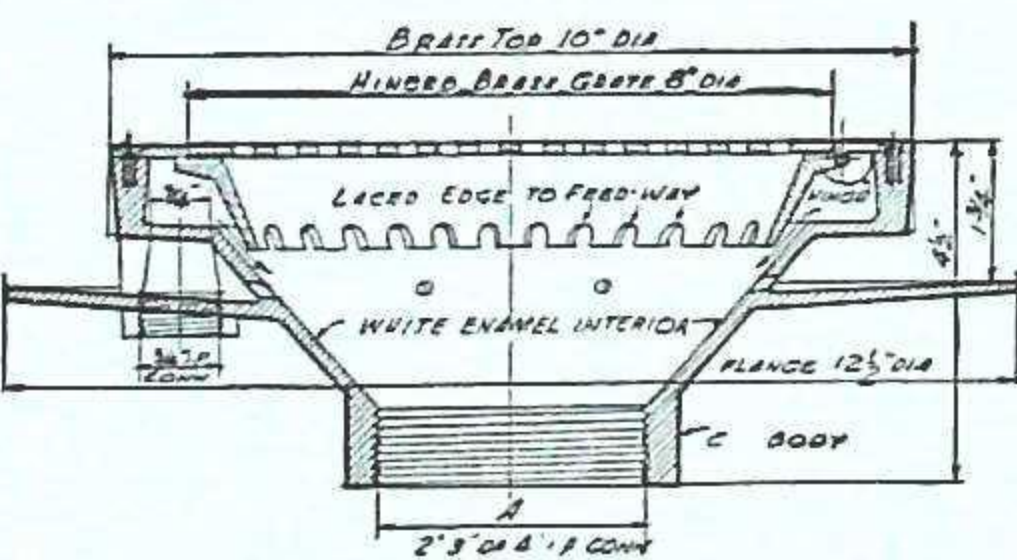
Cast iron japanned body with baked white enamel interior, polished brass top with special hinged, perforated, brass grate, recessed female threaded outlet, unless otherwise ordered. Outlet can be furnished with adaptor for hub or spigot connection, when so ordered. Flushing rim tapped for 3/4-in. pipe connection.

**Without Trap
SERIES 1080A**



Identical in construction with Series 1080 but without trap and with female threaded bottom outlet. Outlet also furnished for inside caulking or with adaptor for spigot connection when so ordered. Spun copper ball back water valve furnished in connection with this drain, when ordered (see page 34 for details).

**Without Trap
SERIES 1080AA**



For the same general purposes as Series 1080 but where a more moderately priced and somewhat smaller and lighter weight flushing rim drain without trap is desired. Outlet also furnished for inside caulking or with adaptor for spigot connection when so ordered. Spun copper ball back-water valve furnished in connection with this drain when ordered (see page 34 for details).

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches			Weight, lbs.	C. I. Body, Brass Top		All Brass	Add to Brass Top List Price for	
	Outlet	Grate	Top Diameter		Japd.	Galv.		White Metal Top	Chrome Plate
1082	2	8	11	53	\$40.00	\$45.00	\$58.50	\$9.00	\$4.00
1083	3	8	11	53	40.00	45.00	58.50	9.00	4.00
1082 A	2	8	11	40	32.00	34.70	46.00	9.00	4.00
1083 A	3	8	11	40	32.00	34.70	46.00	9.00	4.00
1082 AA	2	8	10	30	25.50	27.50	36.00	8.00	3.50
1083 AA	3	8	10	30	25.50	27.50	36.00	8.00	3.50
1084 AA	4	8	10	30	25.50	27.50	36.00	8.00	3.50
Clamping Device, add					1.00	1.50	2.50	8.00	3.50



JOSAM SPECIAL DRAINS FOR RAILROAD SERVICE

Josam drains for use in roadbeds, gutters and floor or roof decks of railroad structures are especially designed to meet specific requirements of railroad construction.

All are of exceptionally rugged construction designed to withstand vibration and ballast movement to which railroad construction is subjected. Several designs are made with the double drainage flange to take care of both surface and sub-surface drainage.

Many designs are available to meet various conditions.

Railroad, Highway, Viaduct and Deck Drain

SERIES 060

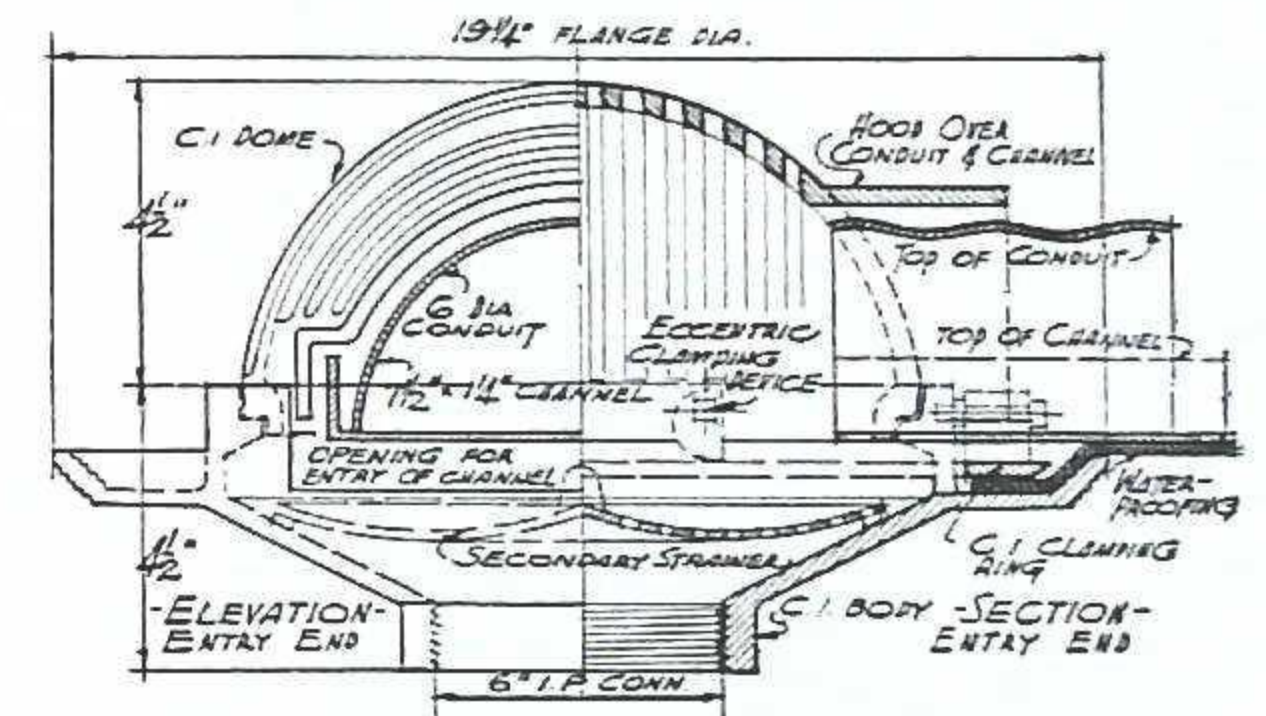
Particularly adapted for use in viaducts where the channel and conduit provides for drainage of the surrounding area. The dome is supported on a flange which has an opening on a center axis line. Above the open portions where the channel and conduit enter the drain proper, the dome is hooded to support ballast and prevent entry of broken stone particles to the interior of the drain. A secondary strainer to take the real fine substances which enter with the drainage, is placed directly above the outlet. The double drainage flange supports the water-proofing membrane at a precise level to sustain the bottom of the

channel into which the half round conduit is imposed, thereby directing all drainage to the interior of the drain body.

The eccentric clamping device positively holds the water-proofing membrane tight to the drain body and directly within the double drainage flange, regardless of the thickness or type of membrane.

General Construction

All cast iron, female threaded outlet, unless otherwise ordered.



DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Weight, lbs.	Cast Iron
064	4	84	\$40.00
065	5	84	40.00
066	6	84	40.00

Railroad Track Drain

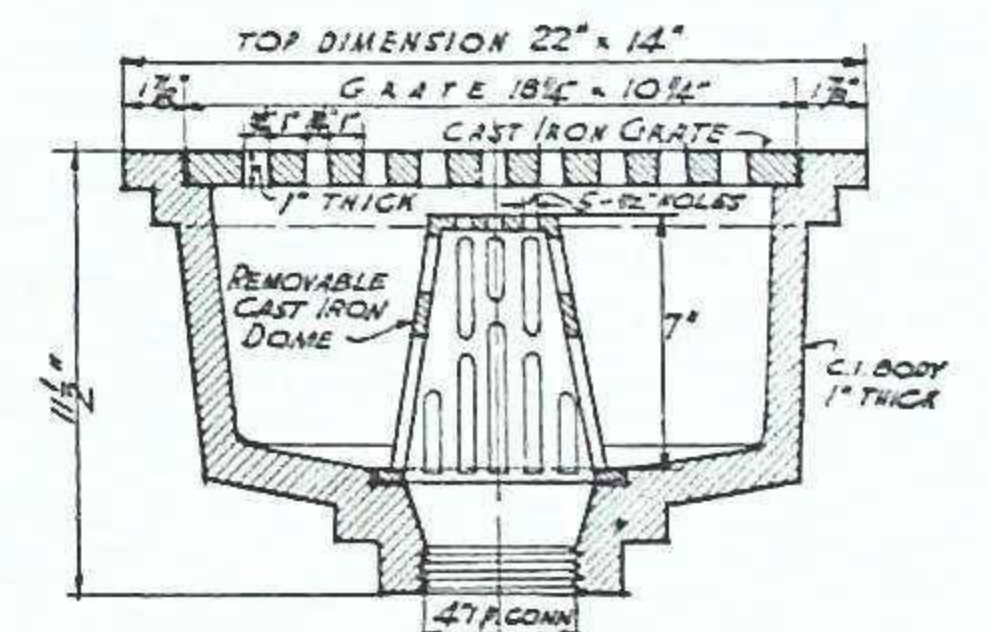
SERIES 070

For use in round houses, terminals and freight yards. The extra heavy grate will withstand ballast and continued heavy trucking and the removable dome within the body prevents the entry of small particles to waste line, thus preventing clogging. Walls of the drain body are 1 in. thick.

General Construction

All cast iron, female threaded outlet, unless otherwise ordered.

Outlet furnished for inside caulking or for spigot connection when so ordered.



DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Top Dia., in.	Weight, lbs.	Cast Iron Complete
074	4	22x14	280	\$80.00
Cast iron Grate				9.50
Steel grate only				27.50
Cast iron Dome				3.50
Malleable Dome				7.00



JOSAM HEAVY DUTY DOUBLE DRAINAGE DRAIN AND TRAP FOR GARAGES AND INDUSTRIAL PLANT FLOORS

With Sediment Retainer, Gas Seal Cone and Threaded Brass Cleanout

With or Without Back Water Valve—With or Without Flashing Clamping Device

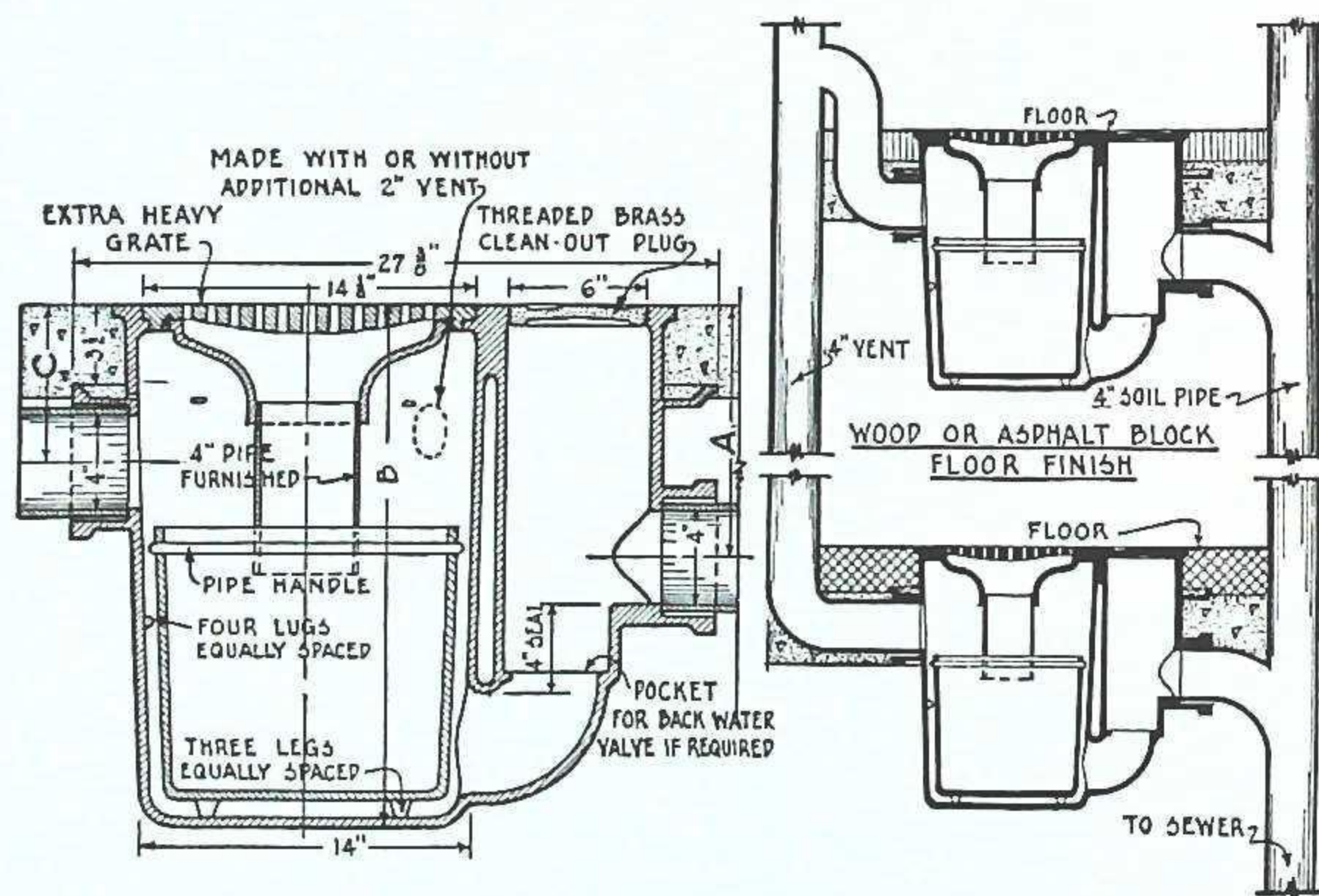
SERIES 900G

For floors of various thicknesses in garages, manufacturing plants, boiler rooms, dairies, stock barns, and wherever there is a large volume of waste water containing heavy deposits of foreign matter which should be prevented from entering waste lines. The heavy anti-tilting grate has a funnel-shaped gas deflecting dome securely bolted to it. The bottom of this dome receives a piece of 4-in. threaded pipe which extends below the water line of the trap, thereby forming a seal and preventing any fumes from entering the room in which the drain is installed. These fumes are carried off through a 4-in. hub vent opening on the side of the drain opposite the trap, the vent opening connecting to vent pipe which may be carried above the roof. A 2-in. recirculating hub vent connection located at any point in the circumference of the drain body above the water line, can be furnished in addition to the regular 4-in. hub vent opening, when so ordered. The gas seal cone is recom-

mended where waste water carries gasoline, oils, or other volatile matter which tend to gasify in the drain or sewer. The sediment retainer is set on legs with ample flow of water between walls of the bucket and inside of the drain body. It is equipped with handle so it can be easily removed for cleaning. The threaded brass cleanout is so located that outlet and back water valve when used, are easily accessible. Two reinforcing ribs which traverse the drain body act as additional anchorage in the floor construction.

General Construction

Heavy cast iron japanned body with 4-in. outlet and vent, both outlet and vent being for hub connection, cast iron sediment retainer, gas seal cone, threaded brass cleanout plug, unless otherwise ordered. All-brass back water valve, caulked in, furnished when so ordered (see page 34 for details).



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches						Weight lbs.	Cast Iron		C. I. Body with Brass Top	
	Slab	Outlet and Vent	Grate	A	B	C		Jap'd.	Galv.	Jap'd.	Galv.
910G	6	4	14	10 ³ / ₄	22	6 ³ / ₄	255	\$ 76.50	\$101.50	\$ 96.50	\$121.50
920G	8	4	14	12 ³ / ₄	24	8 ³ / ₄	280	84.00	112.00	104.00	132.00
930G	10	4	14	14 ³ / ₄	26	10 ³ / ₄	305	90.00	120.00	110.00	140.00
950G	12	4	14	18 ³ / ₄	30	14 ³ / ₄	355	105.00	140.00	125.00	160.00
Clamping Device, add								10.00	14.50	10.00	14.50
Grate								4.50	6.50	13.00	13.00
Hinged Grate								5.50	7.50	14.00	14.00
Bucket								27	10.00	13.50	13.50
Gas Seal Cone								13	6.00	8.00	8.00
Brass Back Water Valve, add									8.00	8.00	8.00

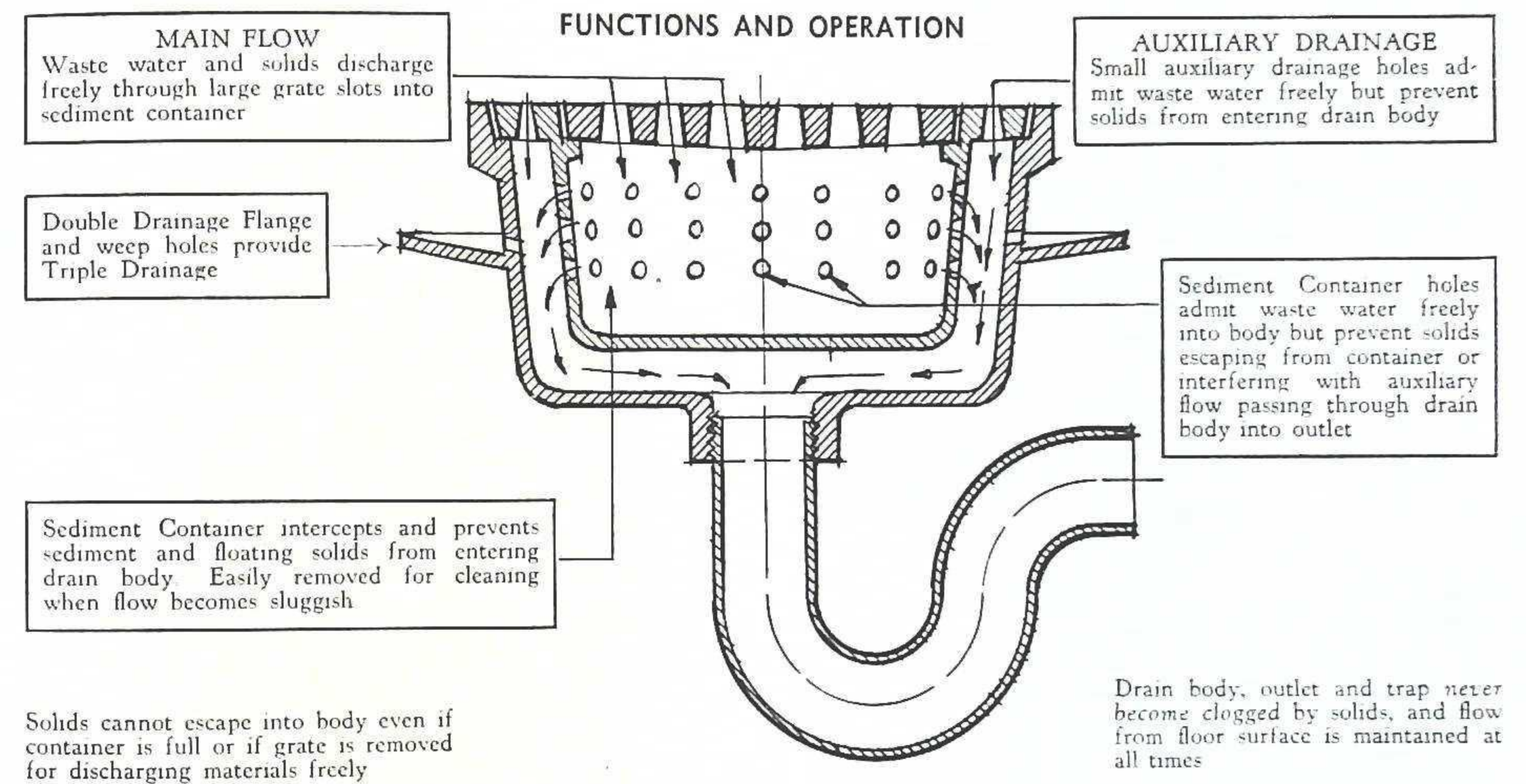


JOSAM NON-CLOG SEDIMENT ARRESTING FLOOR DRAINS

With Auxiliary Surface Drainage—Removable Sediment Container—Anti-Tilting Grate

Light and Heavy Duty Service

A definite improvement in sediment arresting drains to the extent that surface flow is maintained at all times, and all solids, particularly floating material, are intercepted and retained in sediment container, thereby preventing solids from entering and clogging waste lines



PREVENT CLOGGED DRAINS, TRAPS AND PIPES—FLOODED FLOORS—DAMAGE TO BUILDING AND CONTENTS—UNSANITARY CONDITIONS—EXPENSE OF CLEANING TRAPS AND DRAINS

- Made in light and heavy duty types for use in:
- Areaways
 - Pits
 - Residence basements
 - Garage floors
 - Basement storage and equipment rooms
 - Wash racks
 - Service driveways
 - Roadways
 - Industrial plants
 - Oil refineries
 - Boiler rooms
 - Coal rooms
 - Ash pits
 - Dairies
 - Laundries
 - Packing plants
 - Cold storage plants
 - Warehouses

Holes can be drilled in bottom of sediment container to prevent freezing in exposed installations. Types with local vent, detailed on the following pages, are recommended where waste waters carry unusual quantities of gasoline and oil which tend to create gases or fumes within drains. Resulting gases or fumes are quickly carried off through local vent which is located above water level, assuring dry vent. Auxiliary holes at floor surface also serve as air relief in quickly admitting fresh air to body and speeding up draft through local vent.

Types without local vent may be used where waste waters carry moderate quantities of gasoline and oil and where local vent is not required, in which case, auxiliary holes act as an air relief for drain body

and any other requirements where efficient interception of sediment and floating solids, as well as positive protection against stoppage of flow, are primary considerations.

Josam Non-clog drains prevent flooded floors—unsanitary conditions—inconvenience and expense



JOSAM NON-CLOG, LIGHT SERVICE FLOOR DRAINS

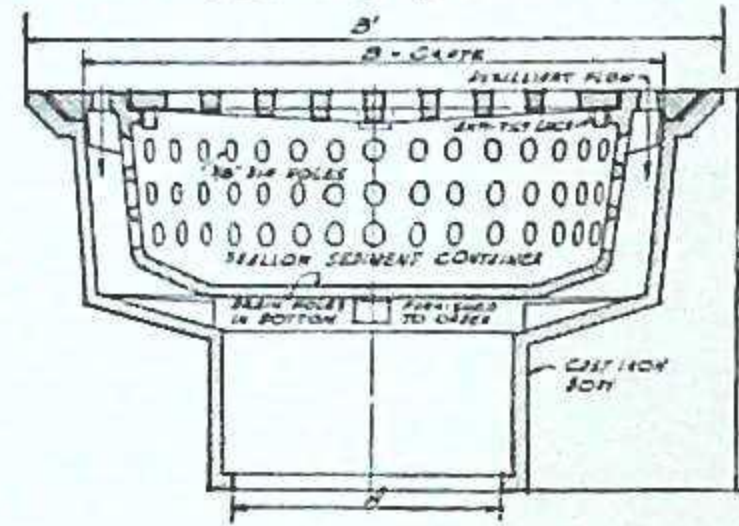
Designed with moderate sediment capacity to prevent basement storage and equipment rooms, and wherever small quantities of sediment are washed or swept into drains.

Without Double Drainage Flange and Weep Holes

SERIES 5400X

General Construction

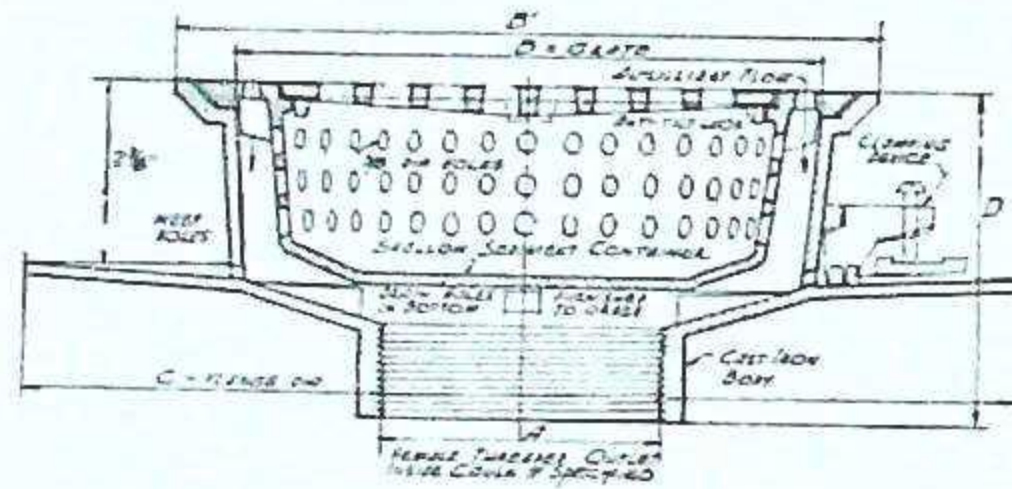
Cast iron japanned body, removable non-clog shallow sediment container, anti-tilting grate, bottom outlet for inside caulking, unless otherwise ordered. Bottom outlet furnished female threaded or



with adaptor for spigot connection, or side outlet female threaded, hub or spigot, when so ordered. Holes drilled in bottom of container, when ordered. For back water valve furnished in bottom, threaded outlet drain, see page 34 for details.

TRIPLE DRAINAGE DRAIN SERIES 5410

Identical in construction with Series 5400X except with double drainage flange which, in addition to the non-clog feature, makes this Drain Triple Drainage Non-Clog. Bottom outlet furnished threaded unless ordered for inside caulking or hub connection. Side outlet furnished threaded, hub or spigot, when so ordered.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches					Weight, lbs.	Cast Iron		C. I. Body, Brass Top		All Brass	Add to Brass Top List Price for	
	A Outlet	B Grate	B'	C	D*		Jap'd.	Galv.	Jap'd.	Galv.		White Metal Top	Chrome Plate
5402X	2	7 3/8	9		5	14	\$5.50	\$7.20	\$11.50	\$12.80	\$15.00	\$6.00	\$2.00
5403X	3	7 3/8	9		5	14	5.50	7.20	11.50	12.80	15.00	6.00	2.00
5404X	4	7 3/8	9		5	14	5.50	7.20	11.50	12.80	15.00	6.00	2.00
With Square Top		7 3/8	9x9		5	15	5.80	7.55	12.10	13.45	15.75	6.30	2.20
With Side Outlet, 2", 3", 4"		7 3/8	9x9		5	14	6.90	9.00	14.40	16.00	18.75	6.00	2.00
5412	2	7 3/8	9	12 1/2	4 1/2	20	7.50	9.50	13.50	15.00	21.00	6.00	2.00
5413	3	7 3/8	9	12 1/2	4 1/2	20	7.50	9.50	13.50	15.00	21.00	6.00	2.00
5414	4	7 3/8	9	12 1/2	4 1/2	20	7.50	9.50	13.50	15.00	21.00	6.00	2.00
With Square Top		7 3/8	9x9	12 1/2	4 1/2	21	7.90	10.00	14.20	15.75	22.05	6.30	2.20
With Side Outlet, 2", 3", 4"		7 3/8	9x9	12 1/2	4 1/2	20	9.40	11.90	16.90	18.75	26.25	6.00	2.00
Grate							1.50	2.00	3.50	3.50	3.50		
Hinged Grate							2.50	3.00	4.50	4.50	4.50		
Clamping Device for Series 5410, add.							1.50	2.00	1.50	2.00	3.00		
Bottom holes in sediment container, add.							1.00	1.00	1.00	1.00	1.00		
Primer tapping 1/2", add.							1.00	1.00	1.00	1.00	1.00		
Back water valve, 2" outlet, add.							4.00	5.00	4.00	5.00	10.00		
3" " " "							5.00	6.00	5.00	6.00	12.50		
4" " " "							6.00	7.00	6.00	7.00	15.00		

D*—Increase 1/2 in. when furnished with brass top.

JOSAM HEAVY DUTY NON-CLOG TRIPLE DRAINAGE FLOOR DRAINS

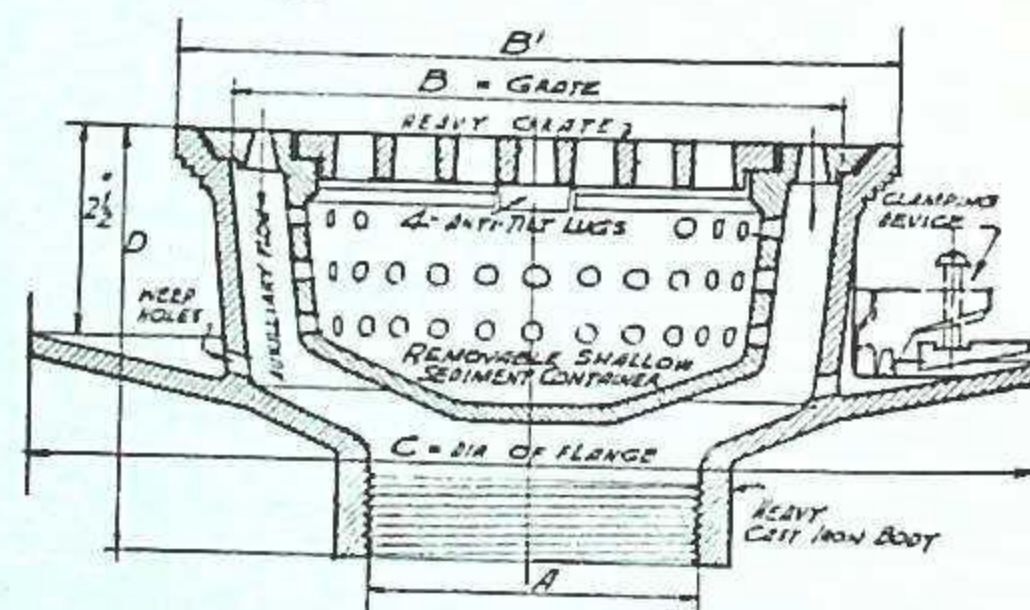
For moderate or heavy service to prevent clogging of waste lines, and where efficient interception of sediment and floating solids is required in areas, warehouses, ash and elevator pits, basement storage and equipment rooms, boiler and coal rooms, garages, yards and driveways, industrial plants, packing plants, dairies and large kitchens.

With Non-Clog Shallow Sediment Container

SERIES 5420

General Construction

Cast iron japanned body, removable sediment container, anti-tilting grate, female threaded outlet, unless otherwise ordered. Outlet furnished for inside caulking or with adaptor for spigot connection when so ordered. Side outlet furnished female threaded, hub or spigot when so ordered. For details on spun copper back water valve furnished when ordered, see page 34.



For dimensions and list prices see table on next page.

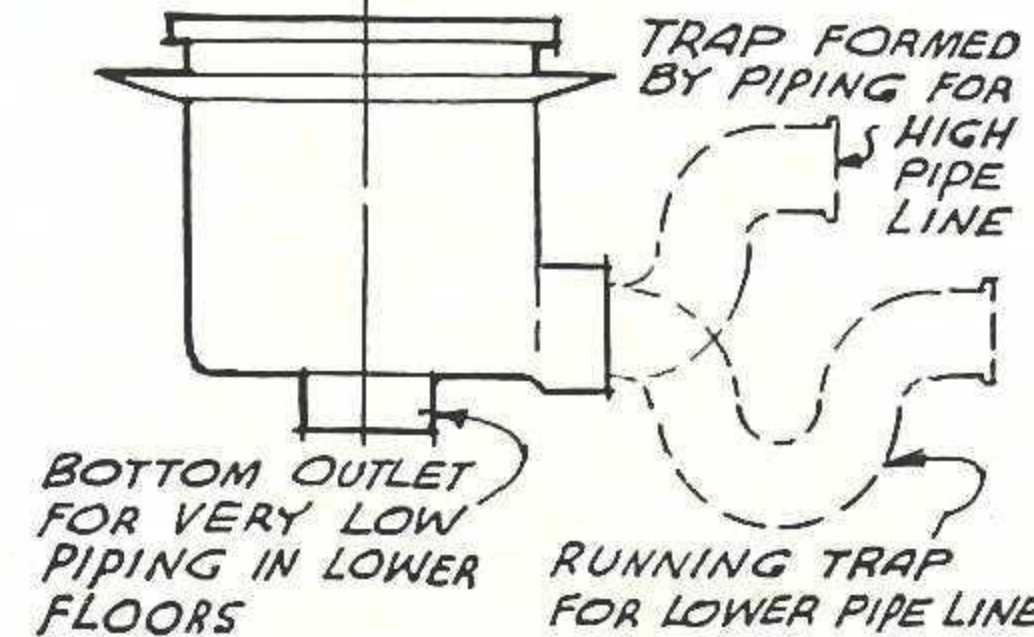
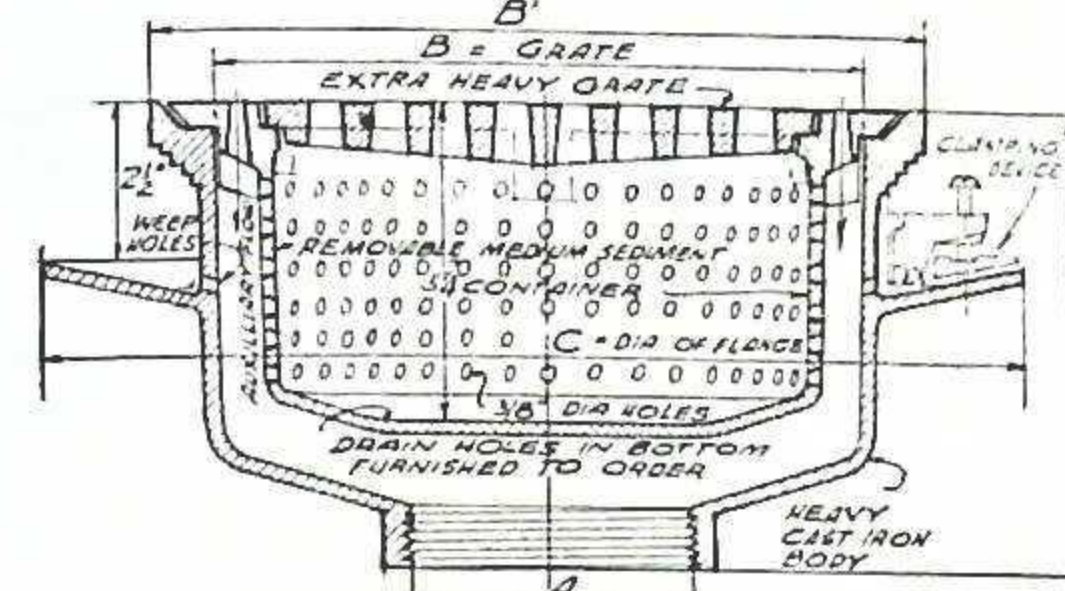
[Page 28]



JOSAM HEAVY DUTY NON-CLOG TRIPLE DRAINAGE FLOOR DRAINS (Continued) With Non-Clog Medium Sediment Container With Non-Clog Deep Sediment Container With or Without Local Vent

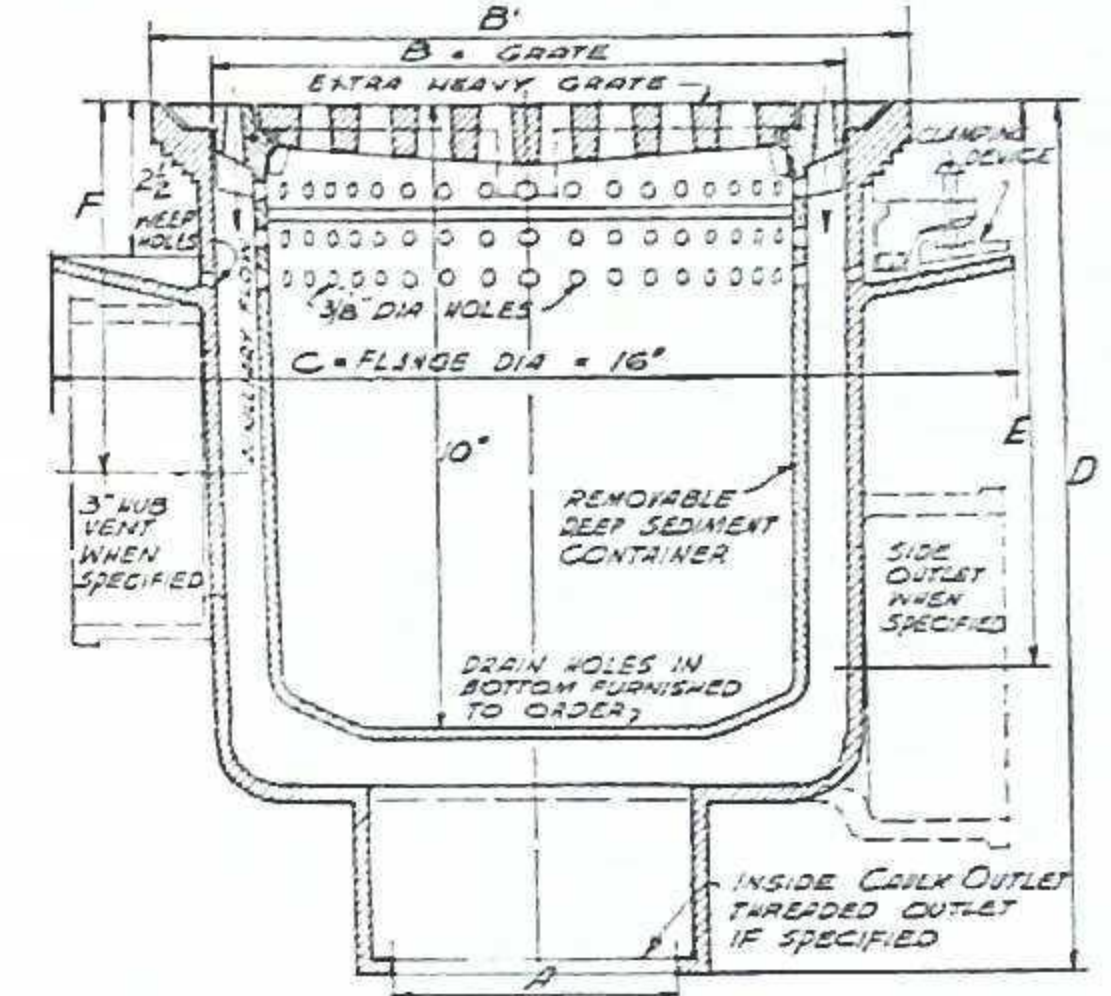
SERIES 5440

Identical in construction with Series 5420 except larger capacity sediment container and heavier construction.



SERIES 5600X

Identical in construction with Series 5420 except larger capacity sediment container and deeper and heavier constructed body with bottom outlet furnished for inside caulking unless ordered threaded or for hub connection. Sediment container is equipped with bar handle for easy lifting. 3-in. hub local vent furnished when ordered.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches						Weight, lbs.	Cast Iron		C. I. Body, Brass Top		All Brass	Add to Brass Top List Price for	
	A Outlet	B Grate	B'	C	D*	E*		F*	Jap'd.	Galv.	Jap'd.		Galv.	White Metal Top	Chrome Plate
5443	3	10 3/4	12 1/2	16	7 1/8		58	\$18.00	\$26.00	\$34.00	\$41.00	\$57.50	\$8.00	\$3.00
5444	4	10 3/4	12 1/2	16	7 1/8		58	18.00	26.00	34.00	41.00	57.50	8.00	3.00
5445	5	10 3/4	12 1/2	16	7 1/8		58	18.00	26.00	34.00	41.00	57.50	8.00	3.00
5446	6	10 3/4	12 1/2	16	7 1/8		58	18.00	26.00	34.00	41.00	57.50	8.00	3.00
With Square Top 10 3/4 x 10 3/4							60	18.90	27.30	35.70	43.05	60.40	8.40	3.15
With Side Outlet, 3", 4", 5", 6"							58	22.50	31.50	42.50	51.25	71.85	8.00	3.00
D*—Increase 1 3/8 in. when furnished with inside caulking outlet. Increase 1/2 in. when furnished with brass top.														
5603X	3	10 3/4	12 1/2	16	13 1/2	9 1/2	86	26.00	38.00	43.00	53.50	88.50	8.00	3.00
5604X	4	10 3/4	12 1/2	16	13 1/2	9	86	26.00	38.00	43.00	53.50	88.50	8.00	3.00
5605X	5	10 3/4	12 1/2	16	13 1/2	8 1/2	86	26.00	38.00	43.00	53.50	88.50	8.00	3.00
5606X	6	10 3/4	12 1/2	16	13 1/2	8	88	27.80	39.80	45.15	56.15	92.90	8.40	3.15
With Square Top 10 3/4 x 10 3/4							86	32.50	47.50	53.75	66.85	110.60	8.00	3.00
With Side Outlet, 3", 4", 5", 6"								3.00	4.50	8.00	8.00	8.00	8.00	3.00
Grate								4.00	5.50	9.00	9.00	9.00	8.00	3.00
Hinged Grate								2.00	2.50	2.00	2.50	3.50	8.00	3.00
Clamping Device, add.								2.00	2.00	2.00	2.00	2.00		
3" Hub Local Vent, add.														
D*—Decrease 1 1/4 in. when furnished with female threaded outlet. D*-E*-F*—Increase 1/2 in. when furnished with brass top.														
5422	2	7 1/2	9	12 1/2	5	Description	22	9.00	12.00	19.00	21.60	24.00	6.00	2.00
5423	3	7 1/2	9	12 1/2	5	and cut on	22	9.00	12.00	19.00	21.60	24.00	6.00	2.00
5424	4	7 1/2	9	12 1/2	5	opposite	22	9.45	12.60	19.45	22.70	25.20	6.30	2.10
With Square Top						page	22	11.25	15.00	23.75	27.00	30.00	6.00	2.00
With Side Outlet.								1.50	2.00	3.50	3.50	3.50		
Grate								2.50	3.00	4.50	4.50	4.50		
Hinged Grate								1.50	2.00	1.50	2.00	3.00		
Clamping Device, add.														
D*—Increase 1 1/4 in when furnished with inside caulking outlet. Increase 1/2 in. when furnished with brass top.														
Primer Tapping, 1/2", add.								1.00	1.00	1.00	1.00	1.00		
Bottom holes in sediment container, add.								4.00	5.00	4.00	5.00	10.00		
Back water valve, 2" outlet, add.								5.00	6.00	5.00	6.00	12.50		
3" " " "								6.00	7.00	6.00	7.00	15.00		
4" " " "								8.00	9.50	8.00	9.50	20.00		
5" " " "								8.00	9.50	8.00	9.50	20.00		
6" " " "														

PRICES APPLICABLE TO ALL THE ABOVE DRAINS

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JOSAM HEAVY DUTY NON-CLOG TRIPLE DRAINAGE FLOOR DRAINS (Continued)

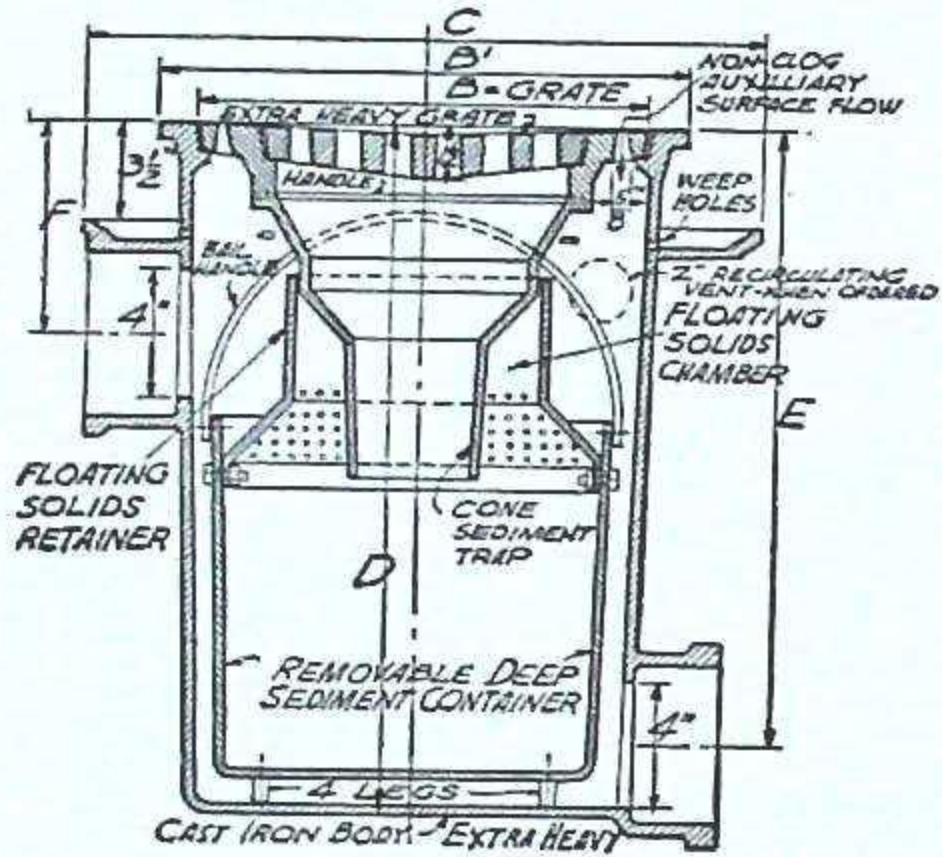
With Floating Solids Container, Cone Sediment Trap, Removable Deep Sediment Container

SERIES 5800—WITHOUT TRAP

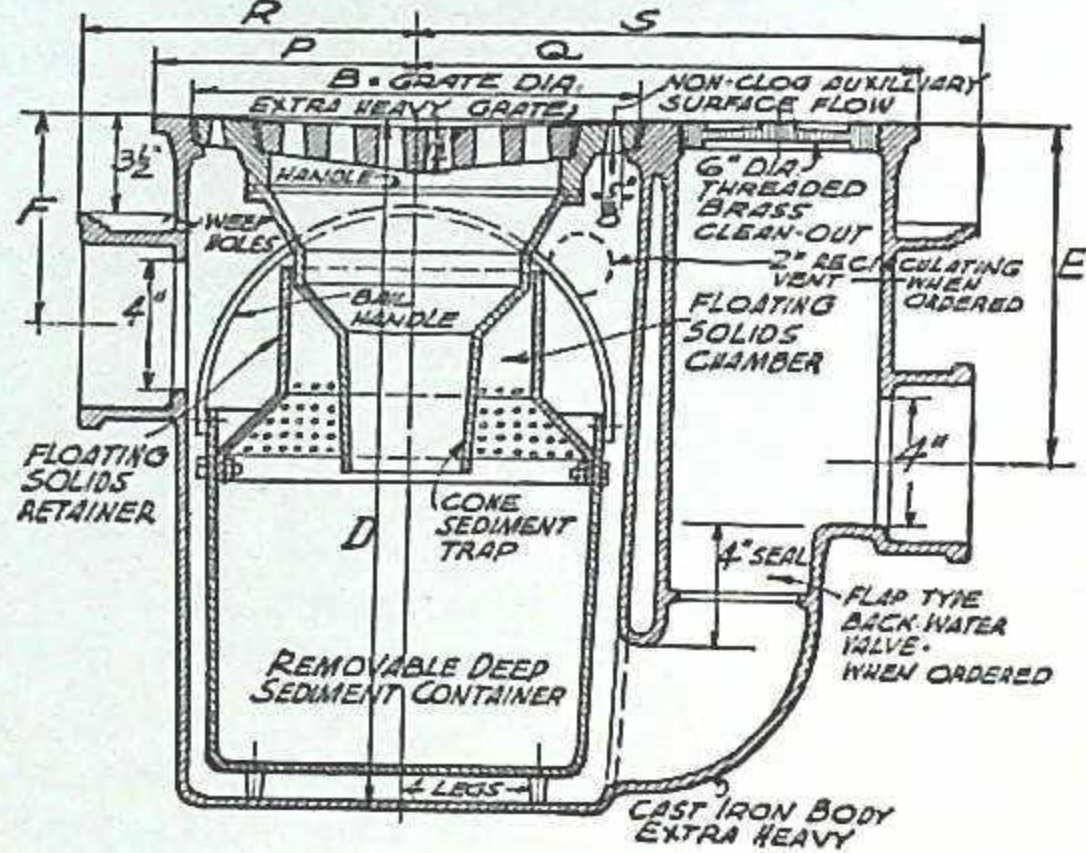
SERIES 5900—WITH TRAP

General Construction

Heavy cast iron body, removable sediment container and solids retainer, extra heavy anti-tilting grate, 4-in. hub outlet, unless otherwise ordered. Made in various depths for upper floor slabs from 4 in. to 12 in. deep, suitable for locating all piping and connections entirely below floor slabs. Maximum depth slab permitted by each type, stated under "Dimensions." Shallow types generally used for ground floor or other installations where it is not objectionable to embed piping in floor construction.



Series 5800



Series 5900

DIMENSIONS AND LIST PRICES

Table with columns for Type, Dimensions in Inches (Max. Slab Depth, B, B', C, D*, E*, F*, P, Q, R, S), Wgt., lbs., Cast Iron (Jap'd, Galv.), C. I. Body, Brass Top (Jap'd, Galv.), Add to Brass Top List Price for (White Metal Top, Chrome Plate).



JOSAM OPEN SEAT BACK WATER SEWER VALVES

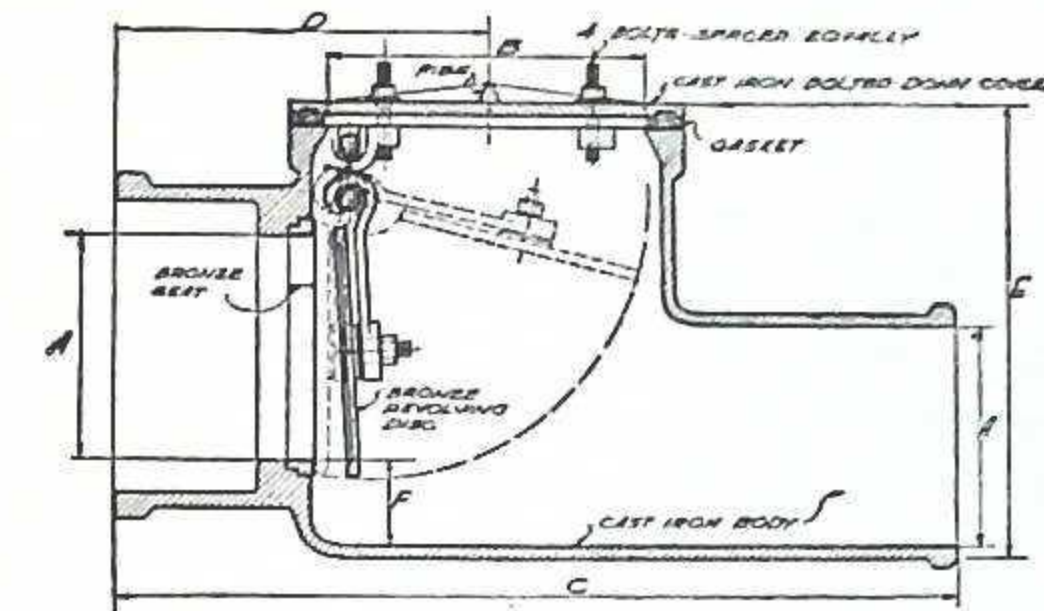
With Cast Iron Bolted Cleanout, Series 1100 With Threaded Brass Cleanout, Series 1140

SERIES 1100

For use on all house sewer lines where there is danger of back water due to excessive rain, tide water or inadequate sewer carry-off. Also for the segregation of flood condition in trunk line sewers confining back water to sections between manholes. The brass flap check or disc is made of bronze operating on bronze compound acting double fulcrum bearings, and is free to revolve, insuring tight closing against brass seat. Continuous flow is permitted by disc being open about 3/4 in. under normal conditions. Open seat also allows circulation, which eliminates necessity of vent connection to sewer valve. The bearings allow disc to swing wide open to the full extent of the pipe area so there is no retarding of the flow. The valve body directly beyond the disc is offset 1/2 in. below the valve seat, which precludes the possibility of fouling the valve.

General Construction

Cast iron japanned body, bolted down cleanout cover 2 in. larger than outlet, hub inlet and spigot outlet, unless otherwise ordered. Can be provided with hub connection for use with tile sewer pipe, when so ordered. Also furnished with machined faced and drilled flanged ends, when so ordered. Extension piece to bring cleanout flush with floor, furnished when so ordered.



SERIES 1140

Identical in construction with Series 1100 except that Series 1140 has a threaded brass cleanout cover and is made only in sizes as mentioned in table.

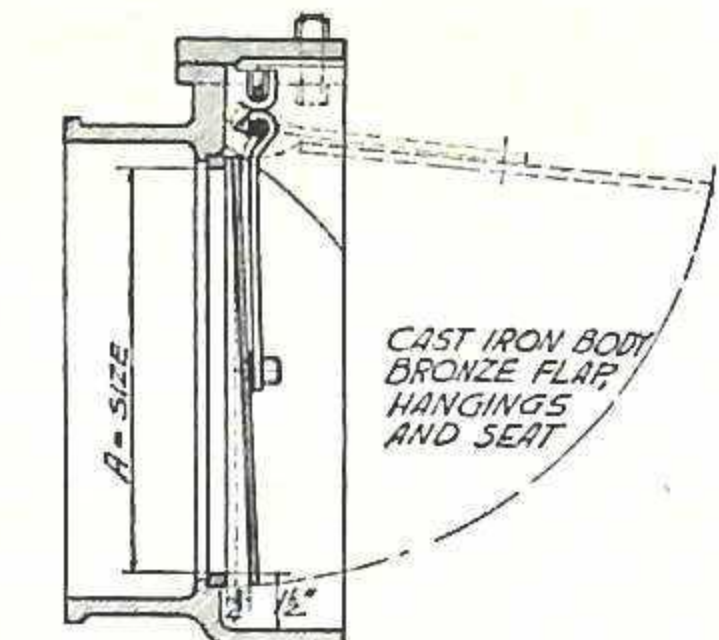
Conforms to Treasury Dept. Specification, Par. 33 and 34

JOSAM OPEN SEAT FLAP VALVE SERIES 1100 1/2

For sewer outlets, sewer and water lines, sewage disposal plants, manholes, also as a sluice, river or tide water outlet and between settling basins in sewage disposal plants.

General Construction

Identical in construction with Series 1100 except that same is one-half portion of the inlet end of Series 1100. Furnished with machined faced and drilled flanged inlet when so ordered.



DIMENSIONS AND LIST PRICES

Table with columns for Type, Dimensions in Inches (Outlet A, B, C, D, E, F), Weight, lbs., Hub Inlet, Spigot Outlet, With Flanged Ends.

Cast iron extensions from 4 in. to 12 in. for Series 1100 and 1140 for raising cleanout to floor line, furnished at additional cost. Prices on application.



JOSAM BACK WATER VALVES

The following types of back water valves are recommended in connection with Josam Floor Drains where there is a possibility of back water through waste lines

FOR JOSAM FLOOR DRAINS, SERIES 710A, 750A, 900G, 5760 AND 5900

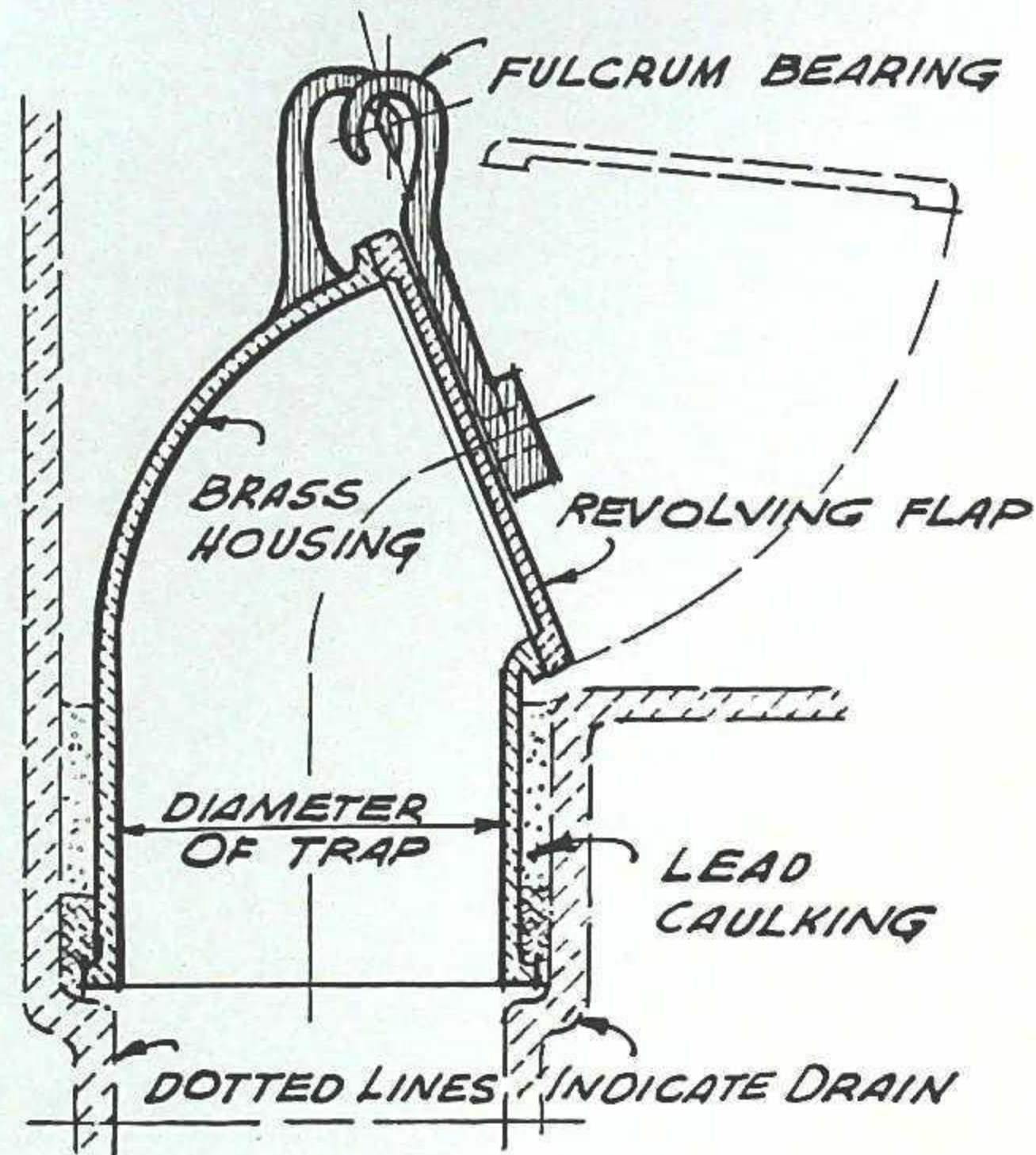
Series 750A is regularly furnished with back water valve, unless ordered without.

Series 710A, 900G, 5760 and 5900 should be ordered "with back water valve" when back water valve is desired.

General Construction

All brass construction, same diameter as outlet of drain, caulked into space provided for same. The valve is so placed that the discharge level of valve is above the water line, thereby eliminating any possibility of fouling. Easily accessible through the cleanout opening in drain which is flush with floor. The brass hinged angle flap is suspended on fulcrum bearings, making flap sensitive acting and allowing full water way. Flap and seat are individually ground for tight closing of valve.

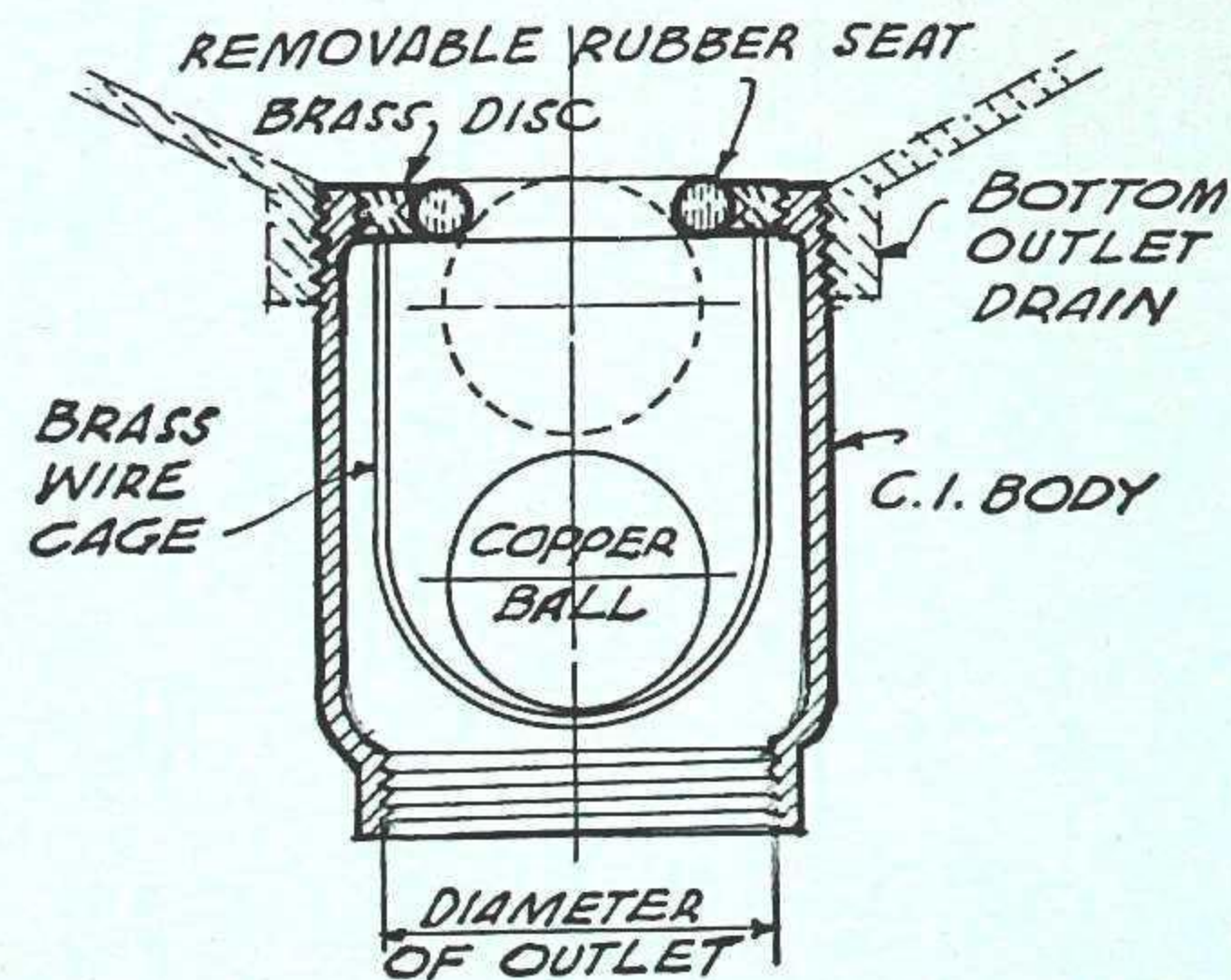
For list prices, see table under type drain desired.



FOR ANY JOSAM FLOOR DRAIN HAVING FEMALE THREADED BOTTOM OUTLET

Josam floor drains having female threaded bottom outlet can be furnished with automatic back water valve, as shown below when so ordered. However, when a 2 or 3-in. outlet

drain is required with a back water valve, the order must specify drain with back water valve; for example, "Josam No. 512 with back water valve," inasmuch as on these two sizes a 4-in. outlet must be furnished in order to properly connect the valve housing to the drain body. When a 4-, 5-, 6-, or 8-in. outlet drain with back water valve is required, the outlet size of the drain body corresponds with the size of the back water valve.



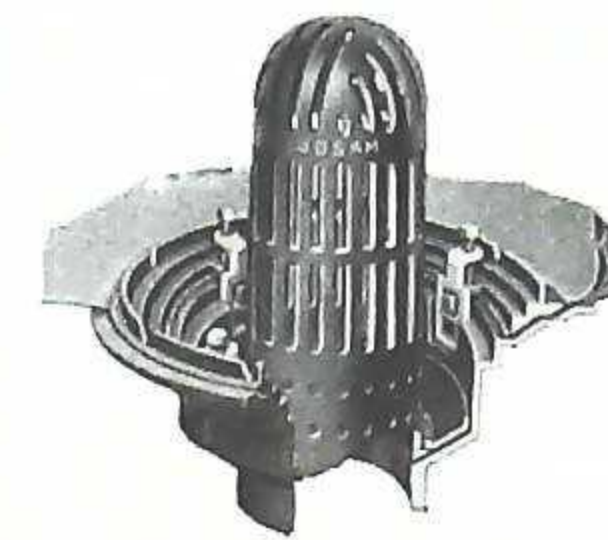
General Construction

The cast iron housing which is threaded into the drain outlet encases a spun copper ball in a brass wire cage. The ball works against a removable rubber seat in a brass bushing, thereby insuring positive closing against back water. Sufficient waterway is provided to insure ample drainage to waste line. The back water valve cage can be readily removed owing to the threaded arrangement of the disc seat.

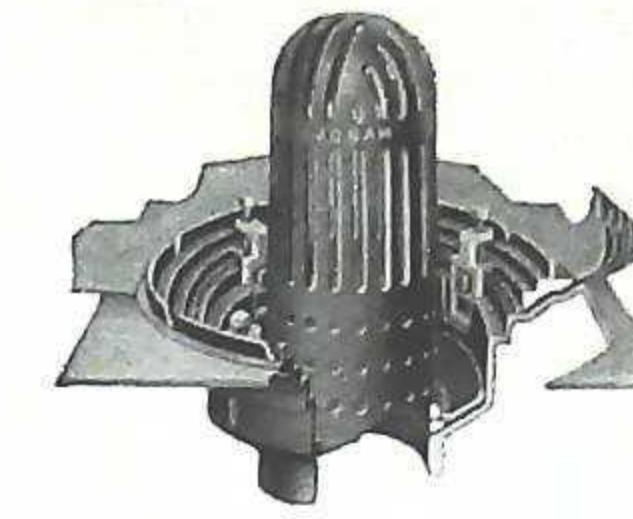
For list prices, see table under type drain desired.



ILLUSTRATED INDEX OF JOSAM ROOF DRAINS



Series 410S—Page 36



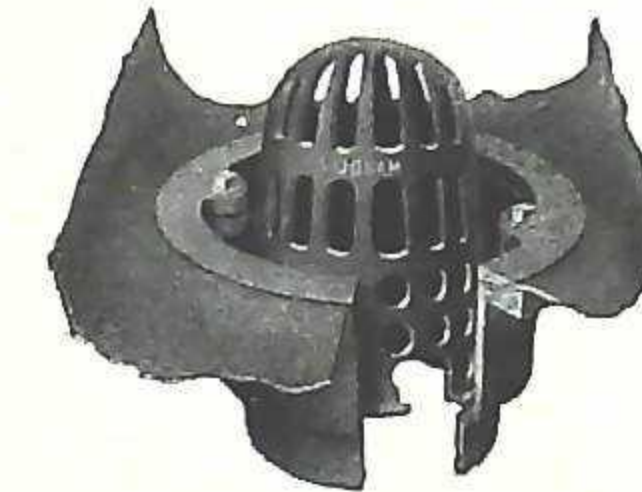
Type 410SL—Page 37



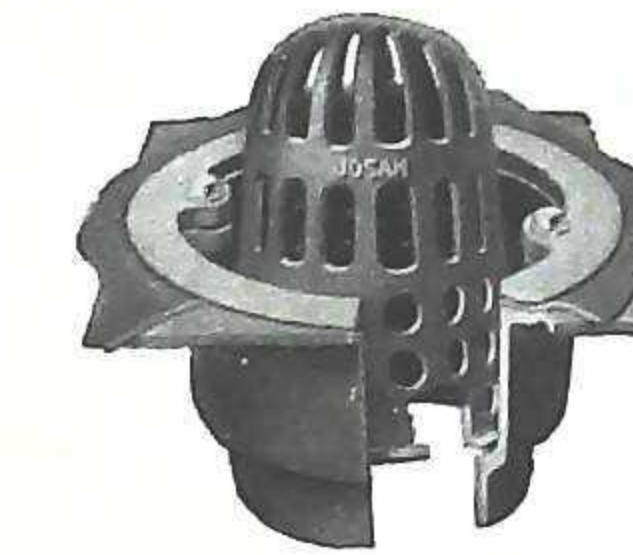
Series 410SR—Page 37



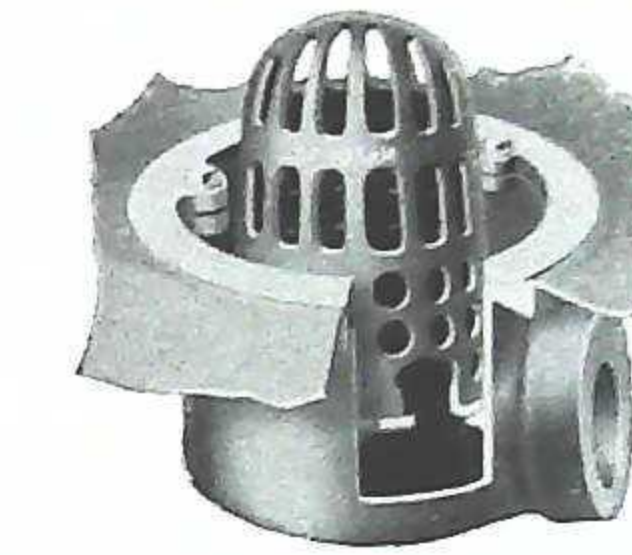
Type 410SRL—Page 37



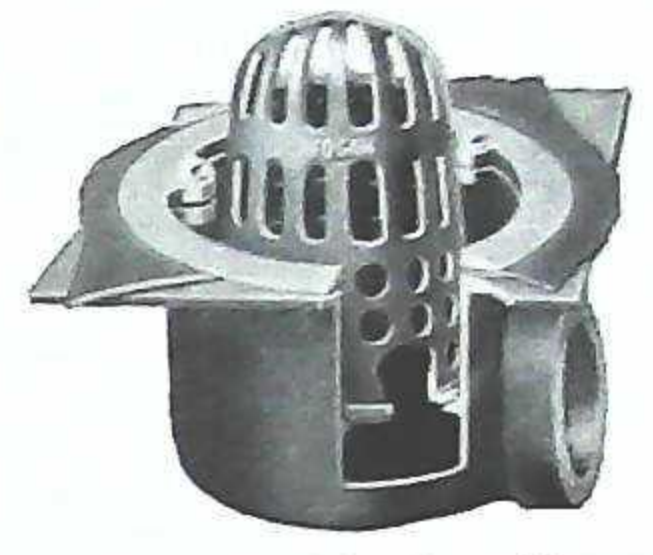
Series 450G—Page 38



Type 450GL—Page 38



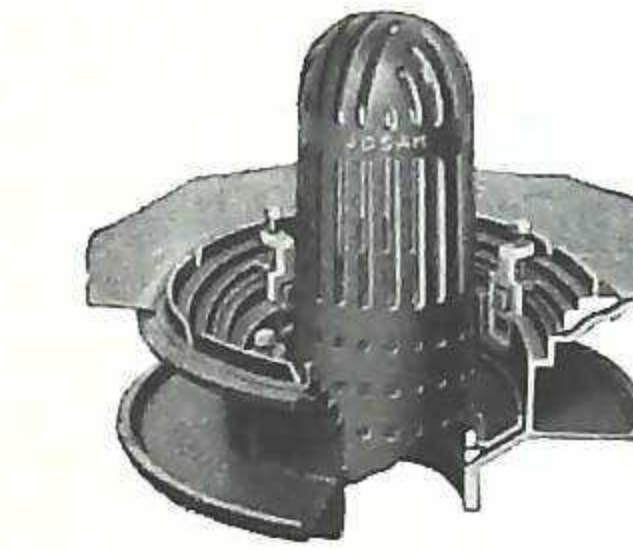
Series 450GR—Page 38



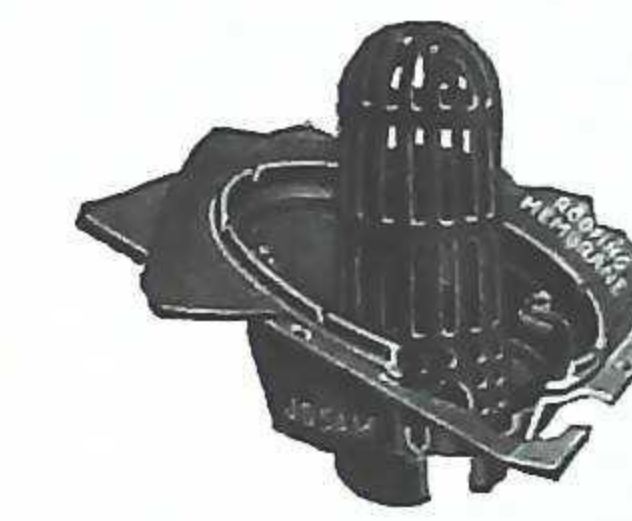
Type 450GRL—Page 38



Series 2340Z—Page 40



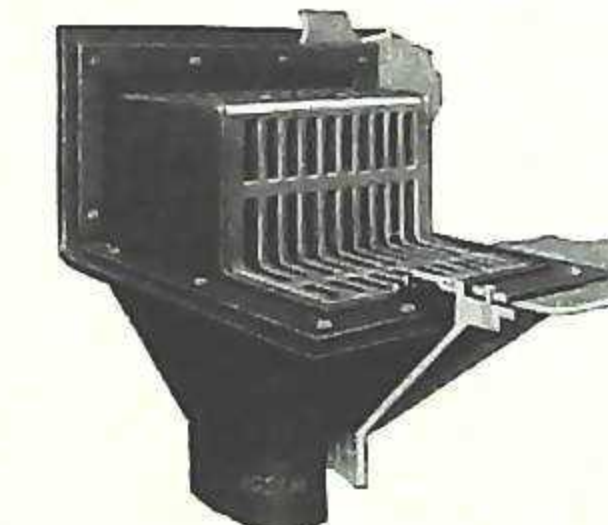
Series 430BS—Page 39



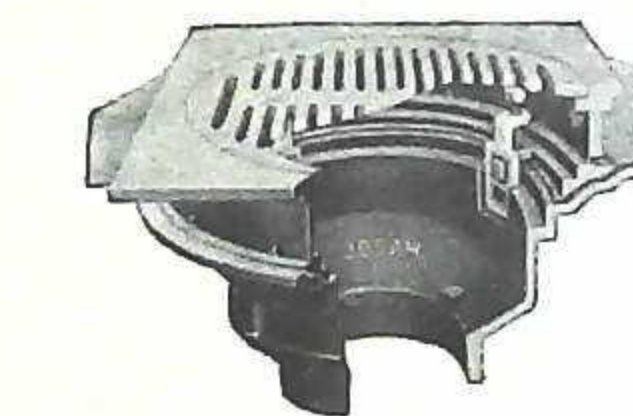
Series 490GC—Page 39



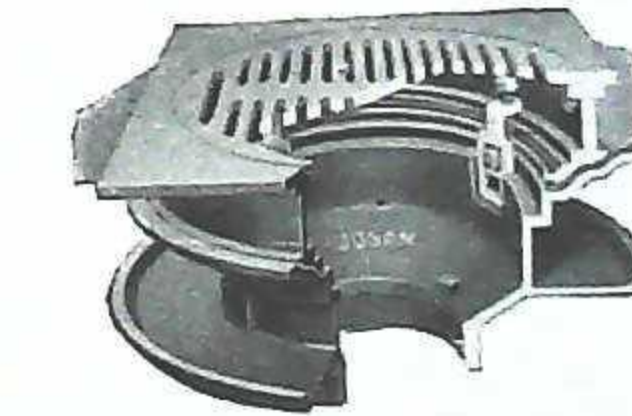
Series 2010S—Page 40



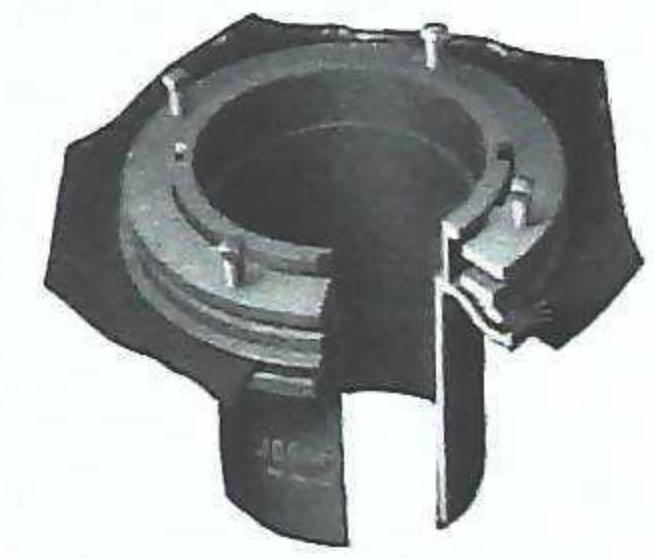
Series 1240



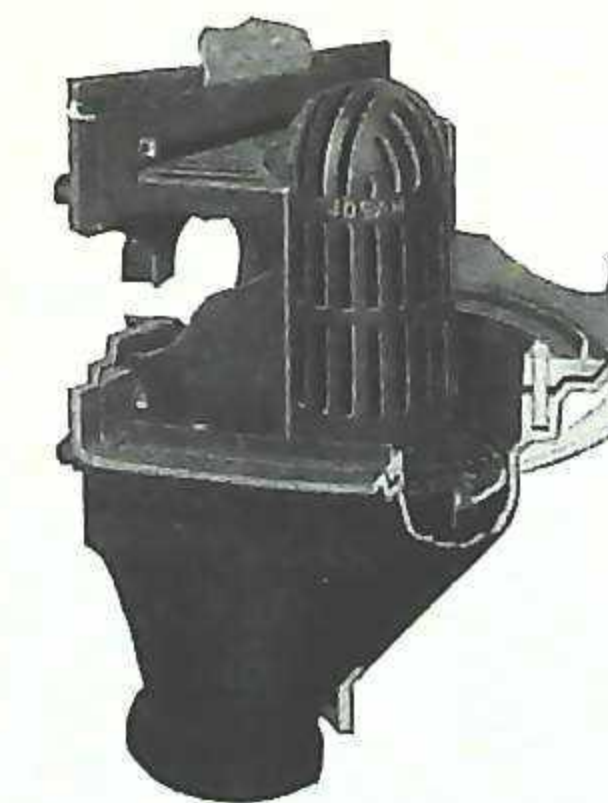
Series 420SP—Page 41



Series 440BSP—Page 41



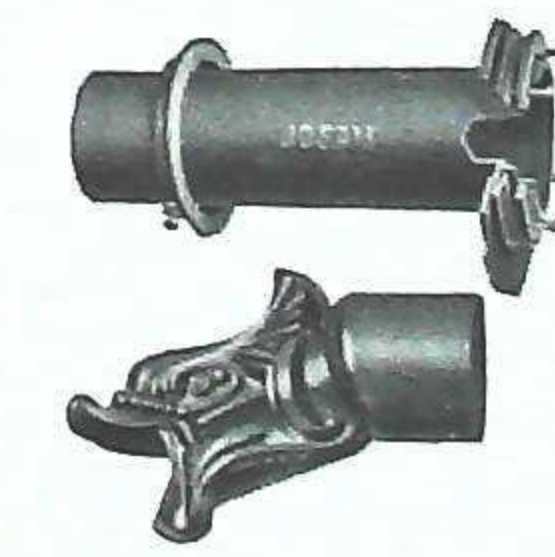
Series 610A—Page 42



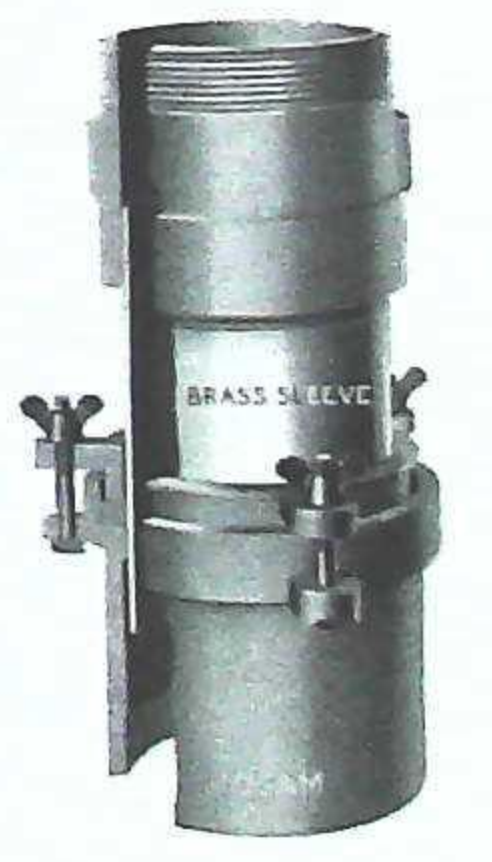
Series 1250



Series 4100



Series 600AS



Series 6000—Page 42

Write for information on Drains illustrated with no page reference



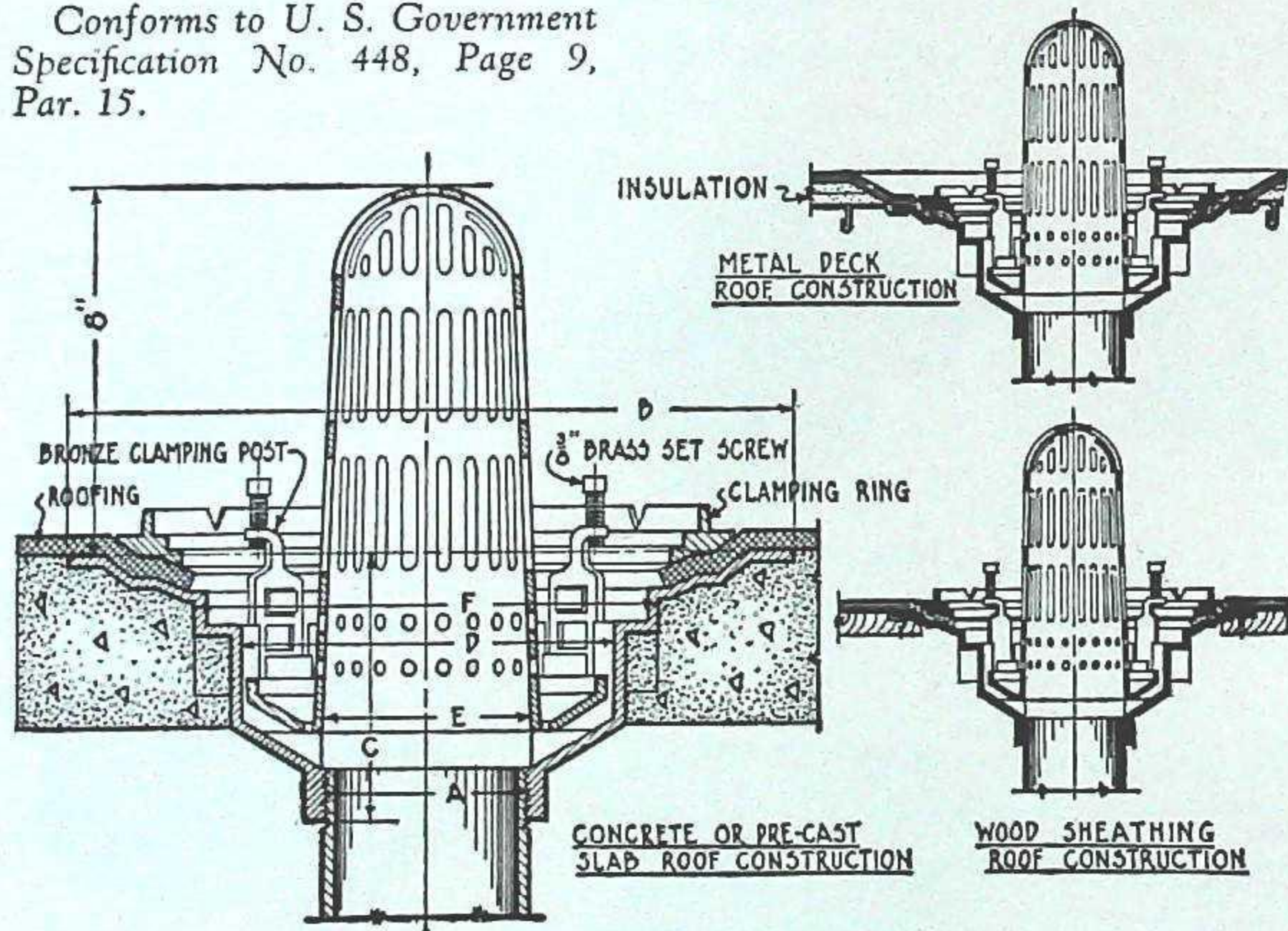
JOSAM ROOF DRAIN WITH REMOVABLE COMBINED DOME STRAINER AND SEDIMENT CUP

For Any Kind of Roof Construction
No Flashing Required

SERIES 410S

For use on any kind of roof where roofing felts are used on top of roof construction. When required for promenade purposes, see page 41. The large body, diameter and height of the removable combined dome strainer and sediment cup, assure ample drainage area both above and below the roof line, making it impossible to clog drain. The improved type gravel stop clamping ring holds the roofing felts to the drain body by means of four heavy bronze adjustable clamping posts. These posts have two major vertical adjustments to allow for varying thickness of roofing material, and are tightened in place with 3/8-in. brass set screws, thereby exerting the necessary pressure on the roofing felts. This forms an absolutely watertight unperforated connection between the felts and the drain body, eliminating the use of a metal flashing of any kind.

Conforms to U. S. Government Specification No. 448, Page 9, Par. 15.



General Construction

Heavy cast iron japanned body, combined dome strainer and sediment cup, female threaded outlet, unless otherwise ordered. Outlet can be furnished for inside caulking or with adaptor for spigot connection when so ordered. Tile stop clamping ring 1/8 in. high, furnished when ordered. For details on Cast Iron Expansion Joint with Brass Sleeve used in connection with this series, see page 42. See next page for variations of Series 410S.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches						Weight lbs.	Cast Iron		All Brass
	A Outlet	B	C	D	E	F		Jap'd.	Galv.	
412S	2	16	6	8 3/8	5	10 1/4	38	\$16.00	\$21.50	\$40.00
413S	3	16	6	8 3/8	5	10 1/4	38	16.00	21.50	40.00
414S	4	16	6	8 3/8	5	10 1/4	38	16.00	21.50	40.00
415S	5	17 1/4	6	9 3/8	5 1/2	11 3/8	48	19.50	25.00	49.00
416S	6	18 3/4	6	10 3/8	6 1/2	12 1/4	56	21.50	27.00	54.00
418S	8	20 3/8	7	12 1/4	8 1/2	14 1/2	70	30.00	39.50	71.50
Tile Stop								6.00	7.00	9.00
Dome Strainer, 2", 3", 4"								5.00	6.50	10.00
5"								5.50	7.10	11.00
6"								6.00	7.80	13.00
8"								10.50	13.80	26.00
Polished Brass Dome Strainer, add to brass list price										5.00
Clamping Ring, 2", 3", 4"								3.00	4.00	6.00
5"								3.30	4.40	6.60
6"								3.60	4.80	7.50
8"								4.50	6.00	9.00
Brass Clamping Post and Set Screw										.30



JOSAM ROOF DRAIN WITH REMOVABLE COMBINED DOME STRAINER AND SEDIMENT CUP

For Any Kind of Roof Construction
No Flashing Required

The Following Are Variations of Josam Series 410S

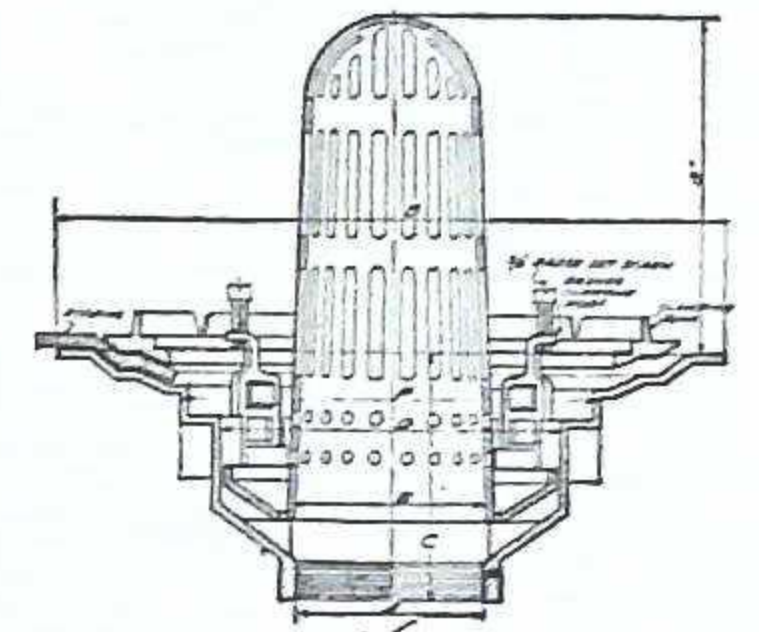
SERIES 410SL

Identical in construction with Series 410S except that this series has a square top flange instead of round.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches						Weight lbs.	Cast Iron		All Brass
	A Outlet	B	C	D	E	F		Jap'd.	Galv.	
412SL	2	17 1/2	6	8 3/8	5	10 1/4	40	\$16.80	\$22.60	\$42.00
413SL	3	17 1/2	6	8 3/8	5	10 1/4	40	16.80	22.60	42.00
414SL	4	17 1/2	6	8 3/8	5	10 1/4	40	16.80	22.60	42.00
415SL	5	18 3/4	6	9 3/8	5 1/2	11 3/8	50	20.50	26.30	51.50
416SL	6	19 3/4	6	10 3/8	6 1/2	12 1/4	59	22.60	28.30	56.70
418SL	8	21 3/8	7	12 1/4	8 1/2	14 1/2	74	31.50	41.50	75.00

Dome Strainer, Tile Stop and Clamping Ring, same list prices as Series 410S.



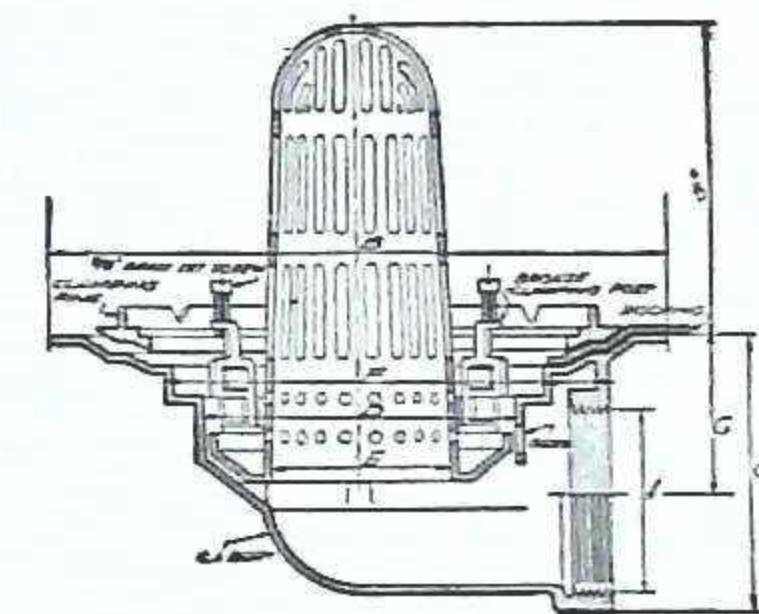
SERIES 410SR

Identical in construction with Series 410S except that this series has a female threaded side outlet but can also be furnished with adaptors for hub or spigot connection when so ordered.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches							Weight lbs.	Cast Iron		All Brass
	A Outlet	B	C	D	E	F	G		Jap'd.	Galv.	
412SR	2	16	7 1/4	8 3/8	5	10 1/4	5	53	\$20.00	\$26.90	\$50.00
413SR	3	16	7 1/4	8 3/8	5	10 1/4	4 1/2	53	20.00	26.90	50.00
414SR	4	16	7 1/4	8 3/8	5	10 1/4	4	53	20.00	26.90	50.00
415SR	5	17 1/4	8 3/8	9 3/8	5 1/2	11 3/8	5	60	24.40	31.20	61.20
416SR	6	18 3/4	9 3/8	10 3/8	6 1/2	12 1/4	6 1/2	68	26.90	33.70	67.50
418SR	8	20 3/8	11 1/2	12 3/4	8 1/2	14 1/2	7 1/2	78	37.50	49.40	89.30

Dome Strainer, Tile Stop and Clamping Ring, same list prices as Series 410S.



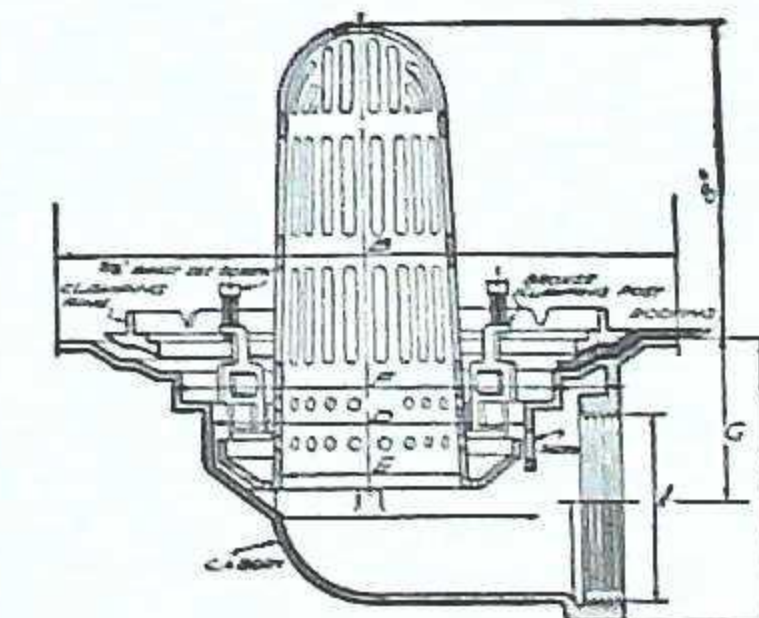
SERIES 410SRL

Identical in construction with Series 410S except that this series has a square top flange and a female threaded side outlet but can also be furnished with adaptors for hub or spigot connection when so ordered.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches							Weight lbs.	Cast Iron		All Brass
	Outlet A	B	C	D	E	F	G		Jap'd.	Galv.	
412SRL	2	17 1/2	7 1/4	8 3/8	5	10 1/4	5	55	\$20.80	\$27.90	\$52.00
413SRL	3	17 1/2	7 1/4	8 3/8	5	10 1/4	4 1/2	55	20.80	27.90	52.00
414SRL	4	17 1/2	7 1/4	8 3/8	5	10 1/4	4	55	20.80	27.90	52.00
415SRL	5	18 3/4	8 3/8	9 3/8	5 1/2	11 3/8	5	62	25.30	32.50	63.70
416SRL	6	19 3/4	9 3/8	10 3/8	6 1/2	12 1/4	6 1/2	71	27.90	35.10	70.20
418SRL	8	21 3/8	11 1/2	12 1/4	8 1/2	14 1/2	7 1/2	80	39.00	51.30	92.90

Dome Strainer, Tile Stop and Clamping Ring, same list prices as Series 410S.





JOSAM ROOF DRAIN WITH REMOVABLE COMBINED DOME STRAINER AND SEDIMENT CUP FOR NARROW VALLEYS, GUTTERS AND SMALL ROOF AREAS

For Any Kind of Roof Construction

No Flashing Required

SERIES 450G

For use in formed and lined valleys or gutters not less than 8 in. in width, on either hip or flat roofs, light shaft decks, small roof areas, built-up roofs, where the available space will not permit the use of Josam Roof Drains of larger size. The metal or other lining of the valley or gutter, or the roofing material is held firmly in place, without perforation, by the clamping ring which is fastened by three brass bolts, making a water-tight connection between roofing material and drain. Dome strainer and sediment cup provides ample drainage area, preventing clogging of drain. When used for draining built-up roof areas, a gravel stop clamping ring is provided.

General Construction

Cast iron japanned body, removable dome strainer, female threaded outlet, unless otherwise ordered. 2-in., 3-in. and 4-in. outlets furnished for inside caulking, all sizes furnished with adaptors for spigot connection, when so ordered. For details of Expansion Joint, see page 42. Flat grate furnished for promenade purposes, when so ordered.

SERIES 450GL

Identical in construction with Series 450G except furnished with square top flange instead of round.

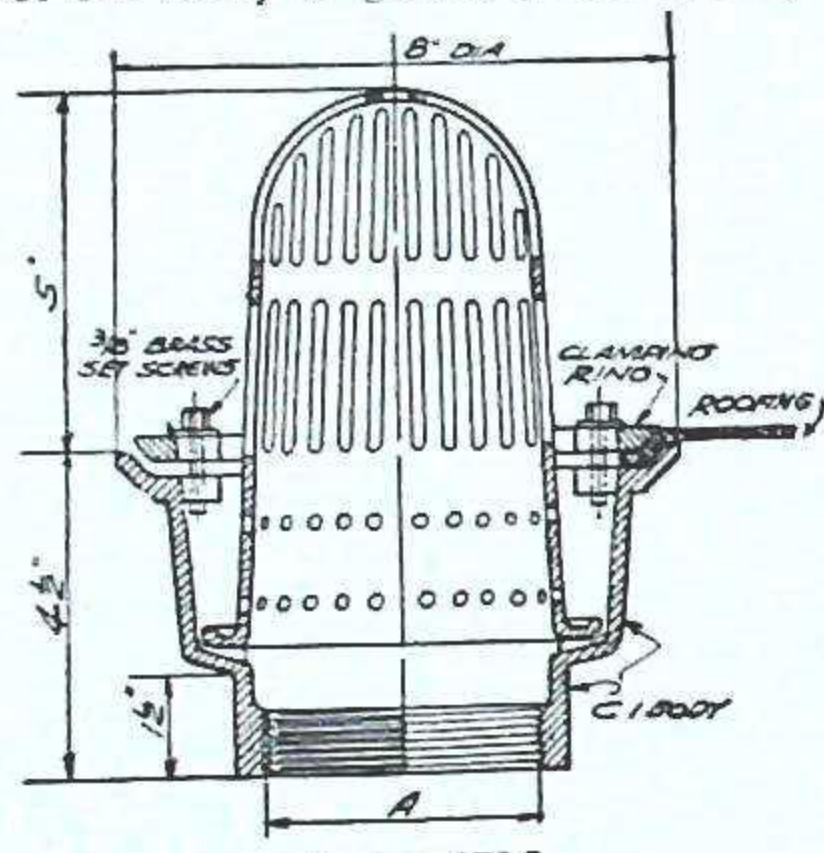
SERIES 450GR

Identical in construction with Series 450G except furnished with female threaded side outlet. Adaptors for hub or spigot connection furnished when so ordered.

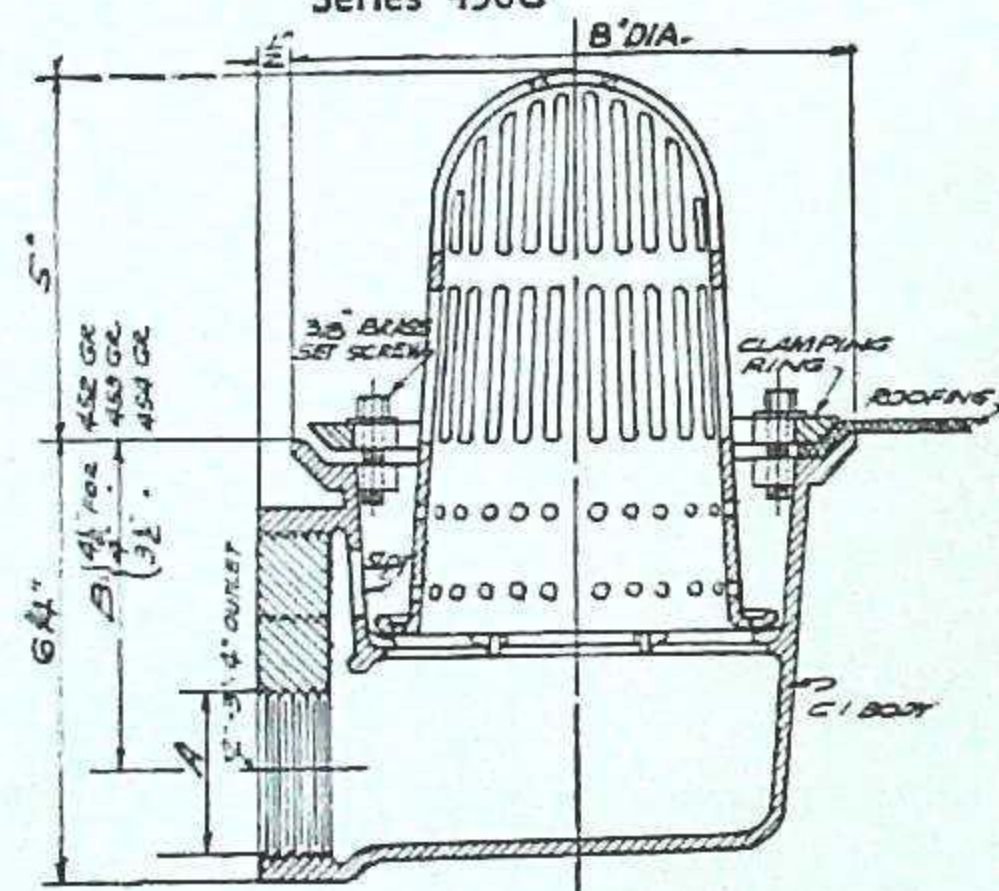
SERIES 450GRL

Identical in construction with Series 450G except furnished with a square top and female threaded side outlet. Adaptors for hub or spigot connection furnished when so ordered.

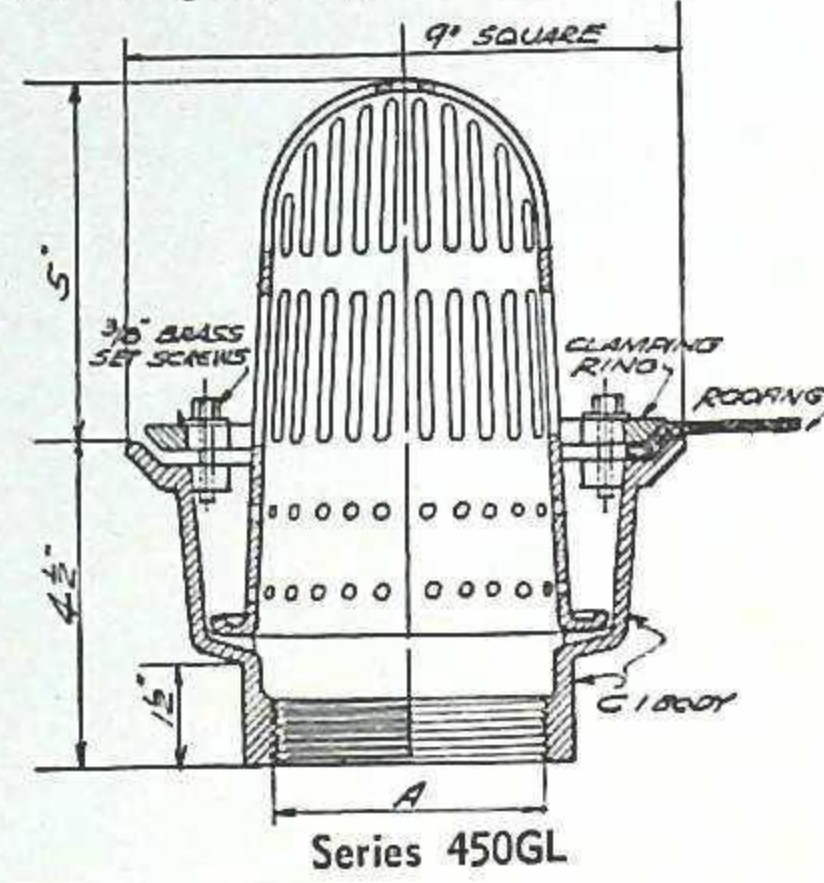
DIMENSIONS AND LIST PRICES



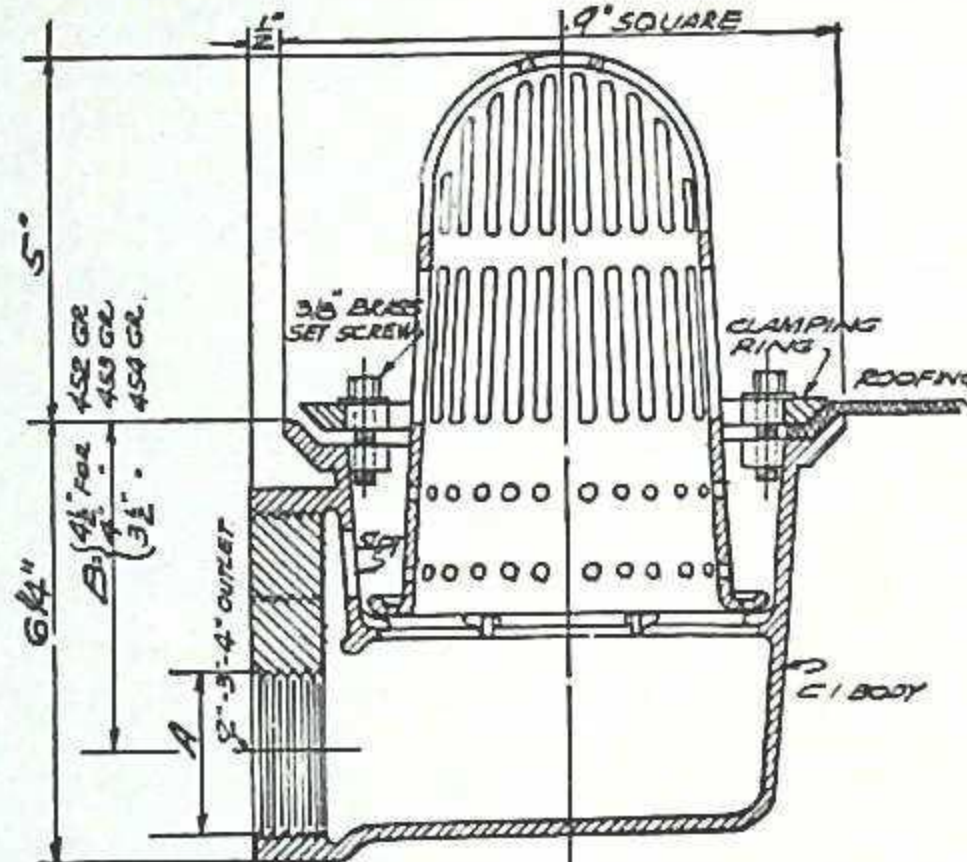
Series 450G



Series 450GR



Series 450GL



Series 450GRL

Type	Outlet, in.	Top, in.	Weight, lbs.	With Dome Strainer			With Flat Grate (For Promenade Roof)		
				Cast Iron		All Brass	Cast Iron		All Brass
				Jap'd.	Galv.		Jap'd.	Galv.	
452G	2	.....	13	\$ 9.00	\$10.30	\$22.50	\$12.00	\$13.30	\$25.50
453G	3	.....	13	9.00	10.30	22.50	12.00	13.30	25.50
454G	4	.....	13	9.00	10.30	22.50	12.00	13.30	25.50
455G	5	.....	14	10.00	11.40	25.00	13.00	14.40	28.00
452GL	2	9x9	14	9.40	10.90	23.60	12.40	13.90	26.60
453GL	3	9x9	14	9.40	10.90	23.60	12.40	13.90	26.60
454GL	4	9x9	14	9.40	10.90	23.60	12.40	13.90	26.60
455GL	5	9x9	15	10.50	12.00	26.20	13.50	15.00	29.20
452GR	2	.....	19	11.20	12.80	28.10	14.20	15.80	31.10
453GR	3	.....	19	11.20	12.80	28.10	14.20	15.80	31.10
454GR	4	.....	19	11.20	12.80	28.10	14.20	15.80	31.10
455GR	5	.....	20	12.50	14.20	31.20	15.50	17.20	34.20
452GRL	2	9x9	20	11.70	13.40	29.20	14.70	16.40	32.20
453GRL	3	9x9	20	11.70	13.40	29.20	14.70	16.40	32.20
454GRL	4	9x9	20	11.70	13.40	29.20	14.70	16.40	32.20
455GRL	5	9x9	21	13.00	14.80	32.40	16.00	17.80	35.40
Dome				3.00	3.80	7.50			
Clamping Device				1.00	1.50	2.50			



JOSAM DOUBLE DRAINAGE ROOF DRAIN WITH REMOVABLE COMBINED DOME STRAINER AND SEDIMENT CUP

For Any Kind of Roof Construction Except Wood

No Flashing Required

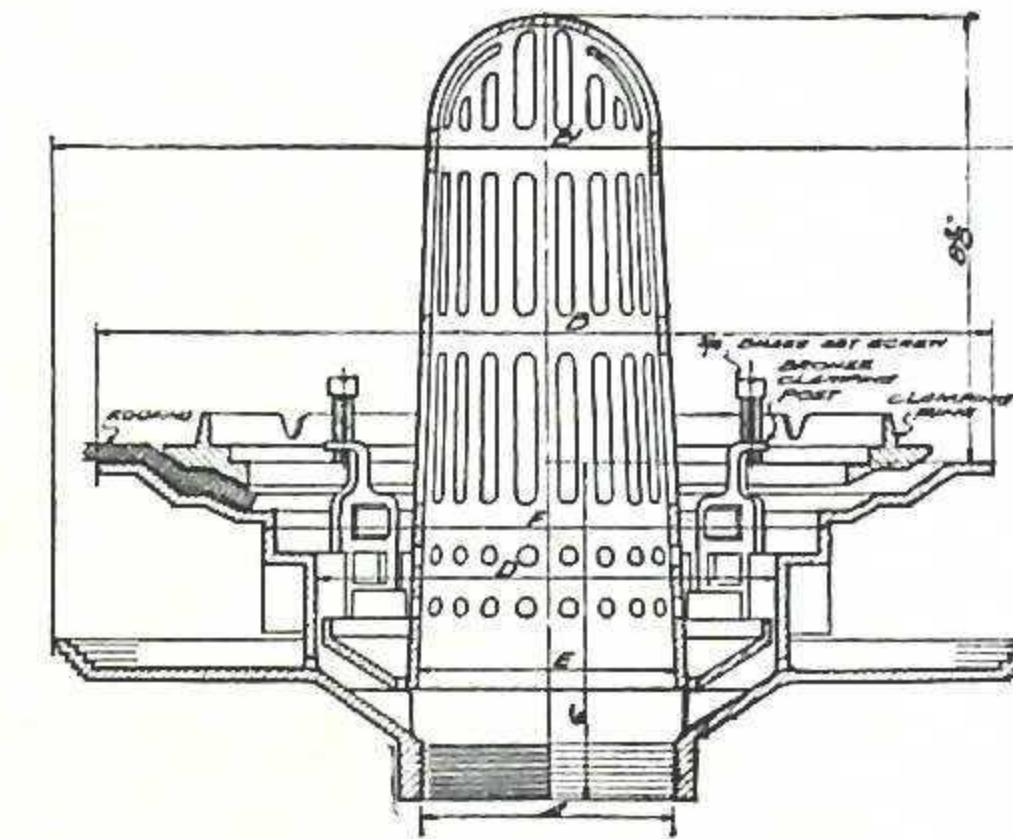
SERIES 430BS

For use on any kind of roof construction, except wood, where roofing felts are used on top of roof construction, and where the double drainage feature, with weep holes, is desired. The roof slab must be at least 4 in. thick to properly imbed the double drainage flange in construction.

The large body, diameter and height of removable combined dome strainer and sediment cup, assure ample drainage area both above and below the roof line, making it impossible to clog the drain. Gravel stop clamping ring holds the roofing felts to the drain body by means of four heavy bronze adjustable clamping posts. These posts have two major vertical adjustments to allow for varying thickness of roofing material, and are tightened in place with 3/8-in. brass set screws, thereby exerting the necessary pressure on the roofing felts and forming an absolutely watertight unperforated connection between the felts and drain body. This eliminates the use of a metal flashing of any kind.

General Construction

Heavy cast iron japanned body, combined dome strainer and sediment cup, female threaded outlet, unless otherwise ordered. Outlet can be furnished for inside caulking or with adaptor for spigot connection when so ordered. Tile stop clamping ring 1/8 in. high, furnished when ordered. For details on cast iron expansion joint with brass sleeve used in connection with this series, see page 42.



DIMENSIONS AND LIST PRICES

Type	A Outlet	B	B'	C	D	E	F	Weight, lbs.	Cast Iron		All Brass
									Jap'd	Galv.	
432 BS	2	16	17 1/2	5 3/8	8 1/2	4 5/8	10 1/4	45	\$21.50	\$27.00	\$44.50
433 BS	3	16	17 1/2	5 3/8	8 1/2	4 5/8	10 1/4	45	21.50	27.00	44.50
434 BS	4	16	17 1/2	5 3/8	8 1/2	4 5/8	10 1/4	45	21.50	27.00	44.50
435 BS	5	17 3/8	18 1/2	5 1/2	9 1/2	5 5/8	11 3/8	55	25.00	32.00	54.50
436 BS	6	18 1/2	20 1/4	5 3/8	10 3/8	6 3/4	12 1/4	70	29.70	37.60	68.00
438 BS	8	18 1/2	20 1/4	5 3/8	10 3/8	6 3/4	14 1/2	77	40.00	51.40	85.20
Tile Stop									6.00	7.00	9.00

Dome Strainer—Same List Prices as for Series 410 S, See Page 36.
Clamping Ring—Same List Prices as for Series 410 S, See Page 36.

JOSAM ROOF DRAIN FOR SAW-TOOTH ROOFS

For Any Kind of Saw Tooth Roof Construction

No Flashing Required

SERIES 490GC

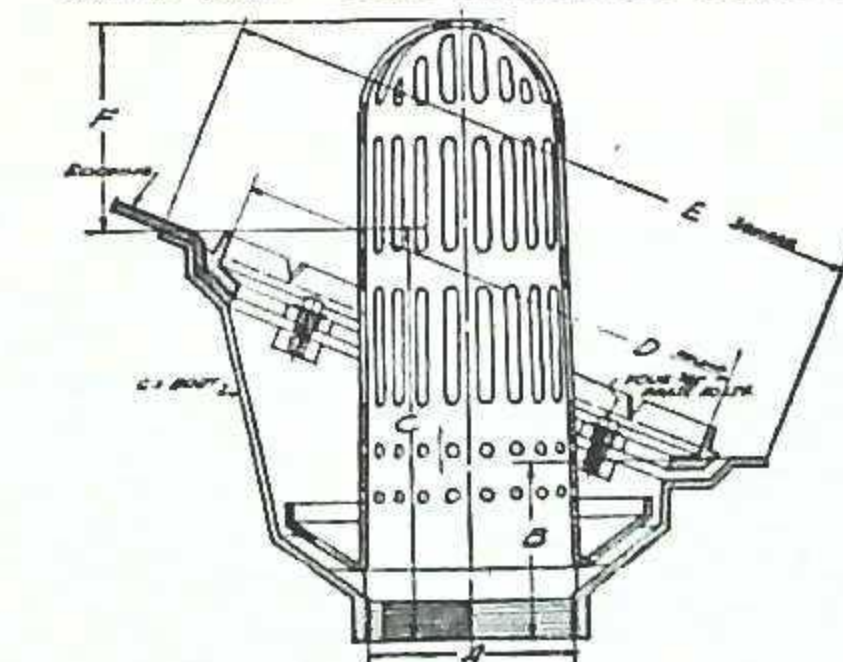
For use in saw tooth roof construction of various roof pitches. Types are available for ordinary roof pitches but drains can be furnished for any pitch, when pitch is given. The roofing felts are placed in the cup flange of the drain body and held in place by four 3/8-in. brass bolts, thereby exerting the necessary pressure on the roofing material without any perforation. This insures an absolutely watertight connection between the roofing material and the drain body, without the use of flashing. The outlet is so placed that no offset around the steel construction is required to drain line. The combined dome strainer and sediment cup

is easily removable and assures ample drainage area, eliminating the possibility of clogging the drain.

General Construction

Heavy cast iron japanned body, combined dome strainer and sediment cup, female threaded outlet, unless otherwise ordered. Outlet furnished for inside caulking or with adaptor for spigot connection, when so ordered. Pitch of roof must be specified when placing order. For details on cast iron expansion joint with brass sleeve for use in connection with this series, see page 42.

DIMENSIONS AND LIST PRICES



Type	A Outlet	B	D	E (square)	F	Weight, lbs.	Cast Iron		All Brass
							Jap'd	Galv.	
492GC	2	3	11 3/8	14 1/4	4 1/2	38	\$19.00	\$24.30	\$45.00
493GC	3	3	11 3/8	14 1/4	4 1/2	38	19.00	24.30	45.00
494GC	4	3	11 3/8	14 1/4	4 1/2	38	19.00	24.30	45.00
495GC	5	3 7/8	13	15 7/8	4	48	21.00	27.50	50.00
496GC	6	3 7/8	13	15 7/8	4	52	24.00	31.50	55.00

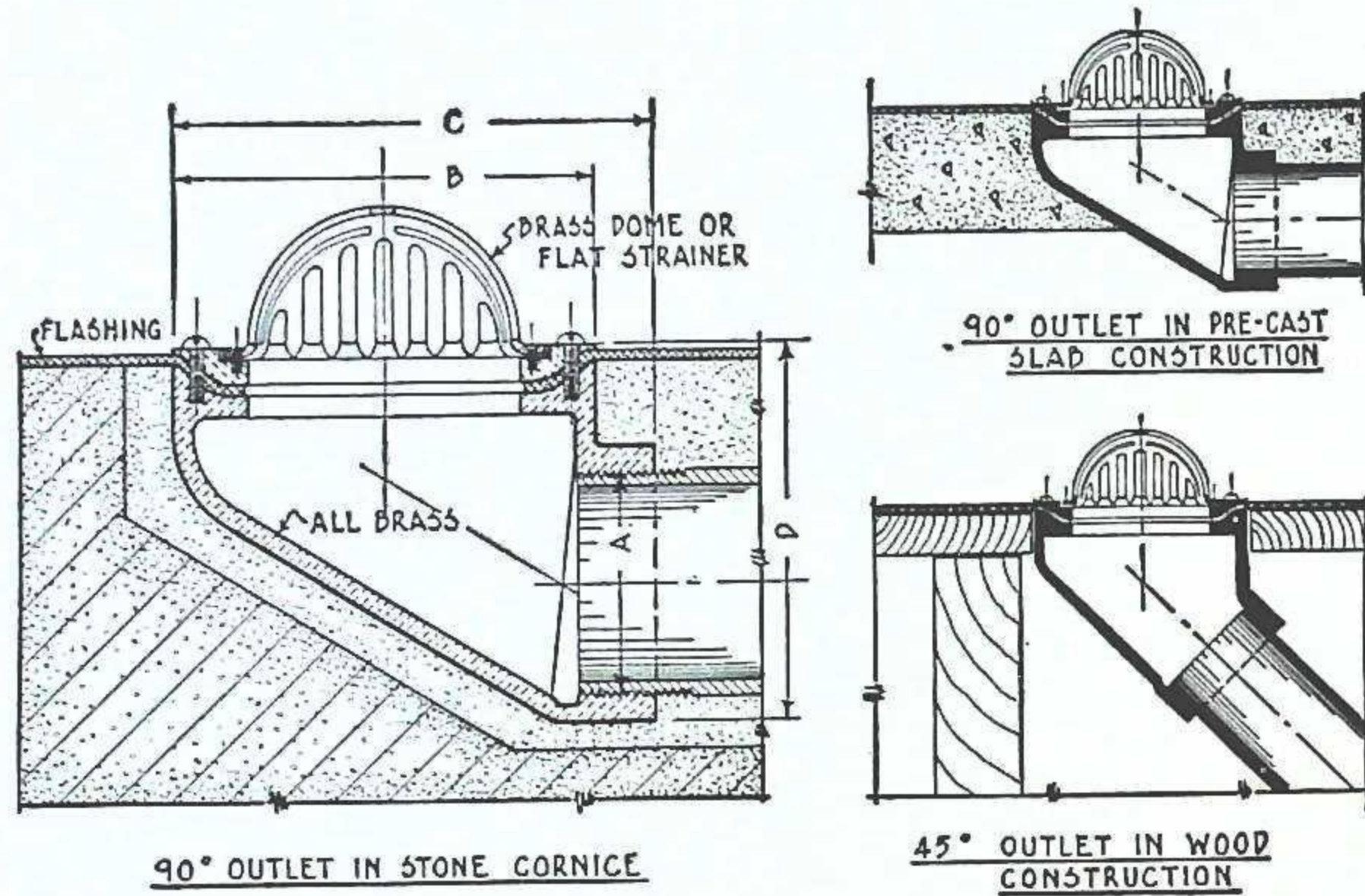
Dome Strainer—Same List Prices as for Series 410S, see Page 36.
Clamping Ring—Same List Prices as for Series 410S, see Page 36.



JOSAM ALL BRASS CORNICE, BALCONY OR SILL DRAIN

For Any Kind of Roof Construction

SERIES 2010S



For draining overhanging cornices, window sills, small balconies and similar areas, in order to prevent drip to street or lower portions of building structure. Also for use where construction requires a shallow drain with side outlet. The collar acts as a clamping ring, holding flashing securely in place. Dome strainer is fastened to collar by flat head countersunk brass screws.

General Construction

All brass shallow type body polished brass dome strainer, female threaded outlet 90° off vertical, unless otherwise ordered. Outlet also furnished 45° off vertical when so ordered. Flat or beehive strainer furnished when so ordered.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches				Weight, lbs.	All Brass	C. I. Body with Brass Dome		Add for	
	A Outlet	B Strainer	C	D			Jap'd.	Galv.	White Metal Strainer	Chrome Plate
2012 S	2	4 3/8	5	4	5	\$ 8.00	\$ 6.00	\$ 7.00	\$1.75	\$0.70
2013 S	3	5 3/4	6 3/8	5	7 1/2	11.00	7.50	9.00	2.75	1.00
2014 S	4	5 3/4	6 3/8	6	9 1/2	13.00	9.00	11.00	2.75	1.00

Flat or Beehive Strainer, no additional cost.

JOSAM PYLON STEP DRAIN

For Any Kind of Roof Construction

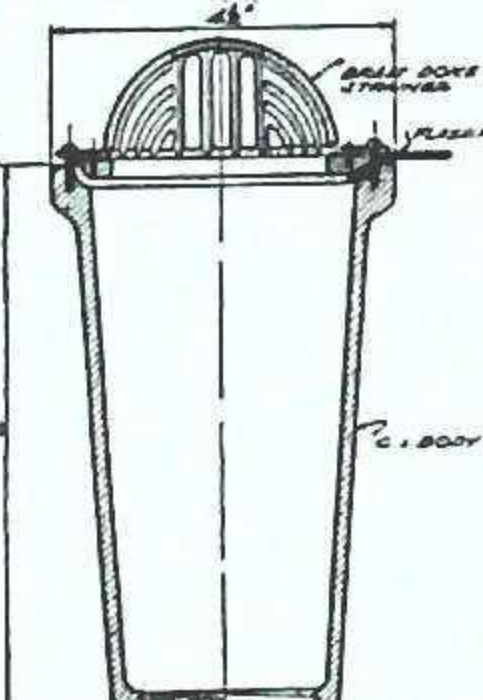
SERIES 2340Z

For draining pylon steps on roofs of step-back type buildings, cornices, sills or recessed windows, or other similar location where body of drain must extend vertically through the construction. The collar, to which the strainer is fastened with flat head countersunk brass screws, acts as a clamping ring to hold the flashing securely in place. Body furnished in various lengths to accommodate installation in varying roof thicknesses.

General Construction

Cast iron japanned body 8 in. long, nickel-plated brass dome strainer and collar, female threaded outlet, unless otherwise ordered. Outlet furnished with adaptor for spigot connection when so ordered. Beehive or flat strainer furnished in place of dome strainer, when so ordered.

DIMENSIONS AND LIST PRICES



Type	Dimensions in Inches			Weight, lbs.	C. I. Body with Brass Strainer		All Brass	Add for	
	Outlet	Strainer	Length of Body		Jap'd.	Galv.		White Metal Strainer	Chrome Plate
2342Z	2	4 3/8	8	9	\$8.50	\$ 9.50	\$14.00	\$1.75	\$0.70
2343Z	3	4 3/8	8	9	9.50	10.50	15.00	1.75	.70
2342AZ	2	4 3/8	4	6 1/2	5.70	6.50	10.00	1.75	.70
2343AZ	3	4 3/8	4	6 1/2	6.70	7.50	11.50	1.75	.70
2342BZ	2	4 3/8	2	4 1/2	4.30	4.80	7.50	1.75	.70
2343BZ	3	4 3/8	2	4 1/2	5.30	5.80	8.50	1.75	.70

Flat or Beehive Strainer, no additional cost.

[Page 40]



JOSAM PROMENADE DECK DRAIN

For Any Kind of Promenade Roof Construction

No Flashing Required

SERIES 420SP

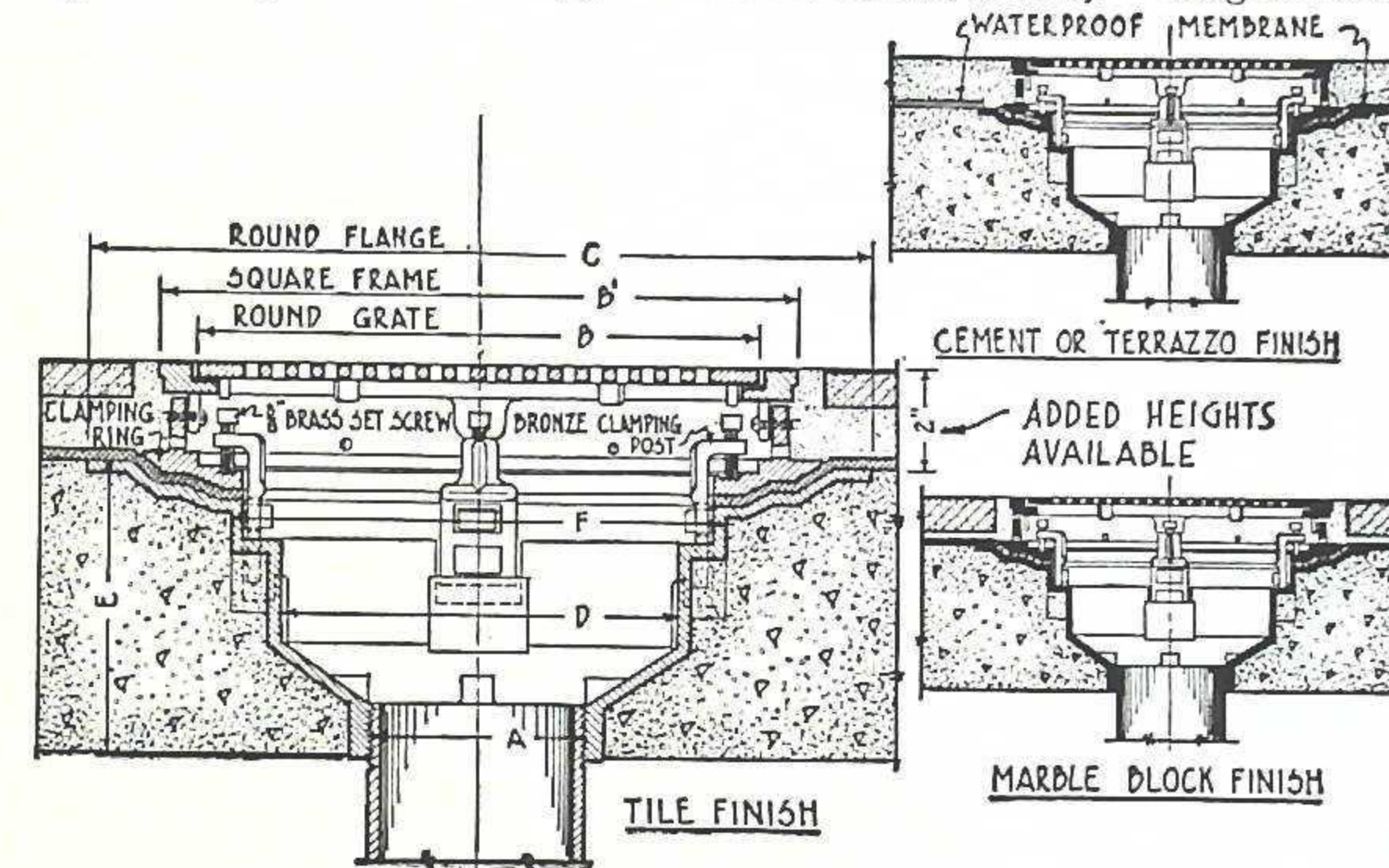
For use on any kind of promenade roof deck. The bottom portion of the collar supporting the frame and grate holds the waterproofing membrane to the drain body by means of four heavy bronze adjustable clamping posts which have two major vertical adjustments. These posts are tightened in place with four 3/8-in brass set screws, thereby

exerting the necessary pressure on the waterproofing membrane in order to hold it tightly. This forms a water-tight connection between the membrane and the drain body, eliminating the use of a metal flashing of any kind. The upper portion which includes the collar, frame and grate, is so designed that same can be set to align with either markers in terrazzo or cement, or joints for tile or flagging.

The collar above drain body is regularly furnished 2 in. high but can be furnished to meet various thicknesses of roof slabs so that the correct level of waterproofing membrane below the roof surface can be accommodated in the drain.

General Construction

Heavy cast iron japanned body, square frame and anti-tilting round grate, 2-in. high collar, female threaded outlet, unless otherwise ordered. Outlet furnished for inside caulking or with adaptor for spigot connection when so ordered. For details on Cast Iron Expansion Joint with Brass Sleeve, for use in connection with this Series, see page 42.

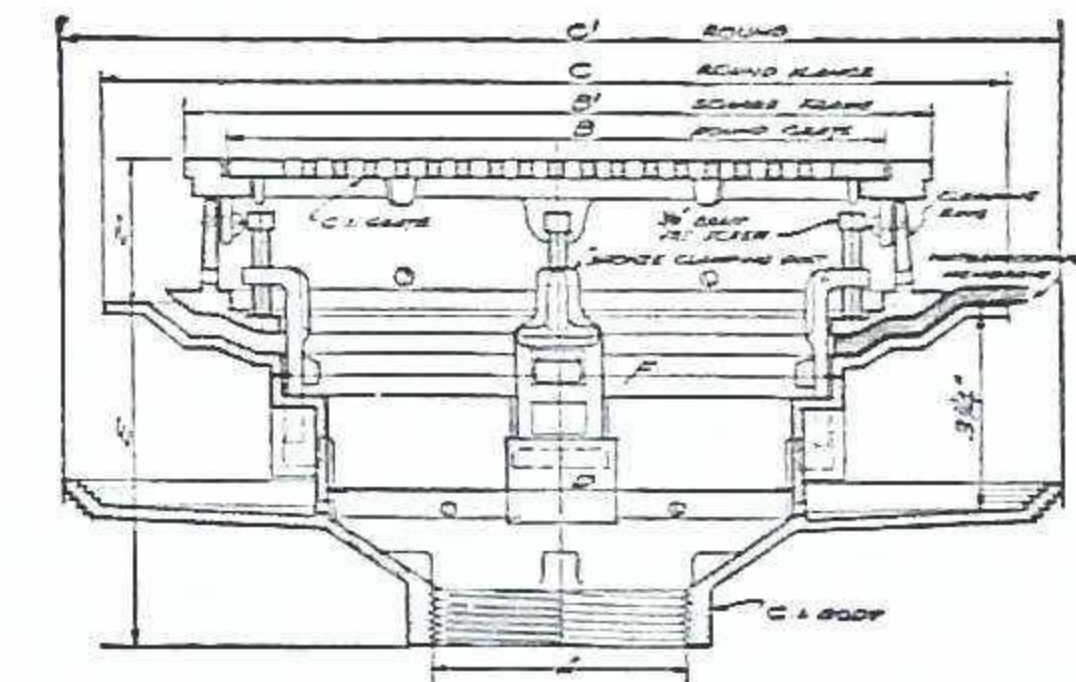


JOSAM DOUBLE DRAINAGE PROMENADE DECK DRAIN

For Any Kind of Promenade Roof Construction Except Wood

SERIES 440BSP—NO FLASHING REQUIRED

Identical in construction with Series 420SP except that this Series is furnished where the double drainage feature is desired. The body of the drain must be in a slab at least 4 in. thick in order to imbed the double drainage flange.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches								Weight, lbs.	Cast Iron		C. I. Body, Brass Top		All Brass	Add to Brass Top List Price for	
	A Outlet	B	B ¹	C ¹	C	D	E	F		Jap'd.	Galv.	Jap'd.	Galv.		White Metal Top	Chrome Plate
SERIES 420SP																
422 SP	2	11 3/4	13 1/4	16	8 3/8	6	10 1/4	43	\$20.00	\$26.00	\$31.50	\$37.50	\$43.00	\$ 9.00	\$1.00	
423 SP	3	11 3/4	13 1/4	16	8 3/8	6	10 1/4	43	20.00	26.00	31.50	37.50	43.00	9.00	1.00	
424 SP	4	11 3/4	13 1/4	16	8 3/8	6	10 1/4	43	20.00	26.00	31.50	37.50	43.00	9.00	1.00	
425 SP	5	12 3/4	14 1/4	17 1/4	9 3/8	6	11 3/8	56	24.50	31.10	39.00	45.60	52.50	10.50	1.50	
426 SP	6	13 3/4	15 1/4	18 1/4	10 3/8	6	12 1/4	63	27.00	35.00	45.50	53.50	61.00	13.00	2.00	
428 SP	8	13 3/4	15 1/4	20 1/8	12 1/4	7	14 1/2	67	36.00	45.50	55.00	64.50	73.50	13.00	2.00	
SERIES 440BSP																
442BSP	2	11 3/4	13 1/4	17 1/2	16	8 3/8	6	10 1/4	55	25.50	32.10	35.50	42.10	47.50	9.00	1.00
443BSP	3	11 3/4	13 1/4	17 1/2	16	8 3/8	6	10 1/4	55	25.50	32.10	35.50	42.10	47.50	9.00	1.00
444BSP	4	11 3/4	13 1/4	17 1/2	16	8 3/8	6	10 1/4	55	25.50	32.10	35.50	42.10	47.50	9.00	1.00
445BSP	5	12 3/4	14 1/4	18 1/2	17 1/4	9 3/8	6	11 3/8	64	31.50	39.60	44.50	52.60	58.00	10.50	1.50
446BSP	6	13 3/4	15 1/4	20 1/4	18 1/4	10 3/8	6	12 1/4	78	35.50	47.10	53.50	64.10	75.00	13.00	2.00
448BSP	8	13 3/4	15 1/4	20 1/4	20 1/8	12 1/4	7	14 1/2	82	45.00	56.40	65.00	76.40	87.20	13.00	2.00
Grate, 2", 3", 4" outlet size.....										3.00	4.00	6.00	6.00	6.00	.....	.....
5" outlet size.....										3.50	4.50	6.50	6.50	6.50	.....	.....
6" outlet size.....										4.00	5.50	8.00	8.00	8.00	.....	.....
8" outlet size.....										4.50	6.00	9.00	9.00	9.00
Additional height collar prices on application.....																

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JOSAM VENT STACK SLEEVE

For Any Kind of Flat Roof Construction
No Flashing Required

SERIES 610A

For use in flat roofs where a watertight connection between vent stack and roof is desired. The clamping ring securely holds the roofing felts in place, and the pressure ring, which is tapped to receive four 3/8-in. brass set screws, can be tightened to exert the necessary pressure on the clamping ring, thereby making an unperforated watertight

connection between roofing felts and vent stack sleeve without the use of copper, lead or other flashing. Space between vent pipe and sleeve should be filled with roofers elastic cement or oakum and poured lead joint, thereby making a watertight joint between sleeve and pipe.

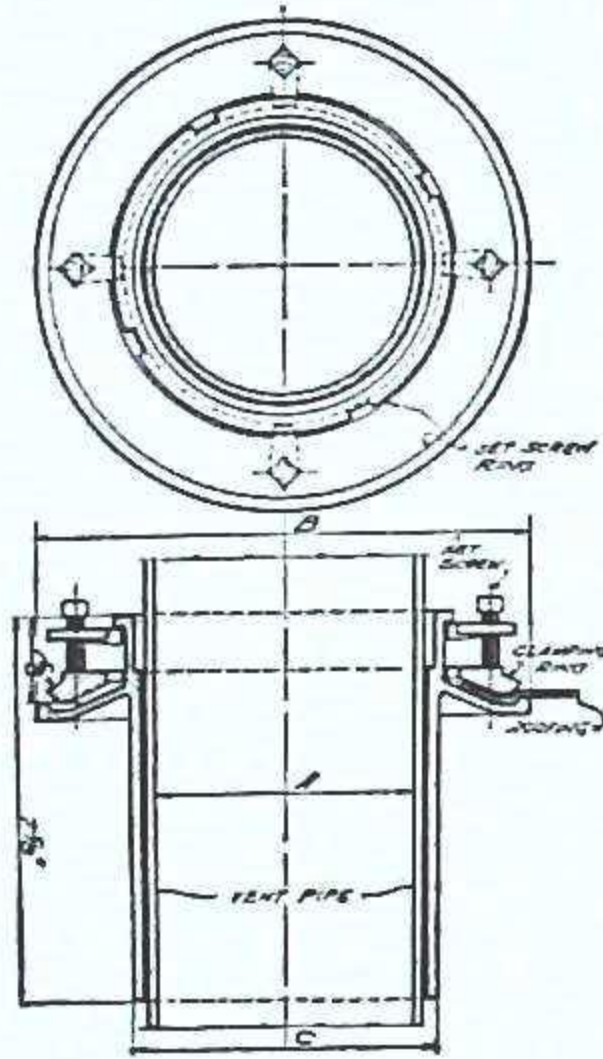
Also for use in supporting base of flag pole.

General Construction

Cast iron japanned body, clamping ring and pressure ring with brass set screws, unless otherwise ordered.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches			Weight, lbs.	Cast Iron		All Brass
	Vent Pipe	B	C		Jap'd	Galv.	
611 1/2 A	1 1/2	6	2 3/4	8	\$3.50	\$4.50	\$8.00
612 A	2	6 3/4	3 1/4	9	3.50	4.50	8.00
612 1/2 A	2 1/2	7	3 3/4	10	4.00	5.00	10.00
613 A	3	7 1/2	4 1/4	11	4.00	5.00	10.00
614 A	4	8 3/4	5 1/4	15	5.00	6.00	14.00
615 A	5	9 3/4	6 1/4	20	6.00	7.50	18.00
616 A	6	10 3/4	7 1/4	22	6.50	8.50	19.00
618 A	8	13	9 1/2	24	10.00	12.00	23.50



JOSAM CAST IRON EXPANSION JOINT WITH BRASS SLEEVE

SERIES 6000

For use with any Josam Drain, in any line where there is expansion and contraction. The heavy gauge brass sleeve has a smooth non-corrosive surface working freely against a graphite saturated, round, braided asbestos packing ring. The ring is held in place by means of a gland ring which is tightened by three wing nuts, thereby assuring a watertight and airtight joint. The body is designed to permit contraction or expansion of 1 1/2 in. or any fraction thereof, each way in the line, or a total of 3 in.

General Construction

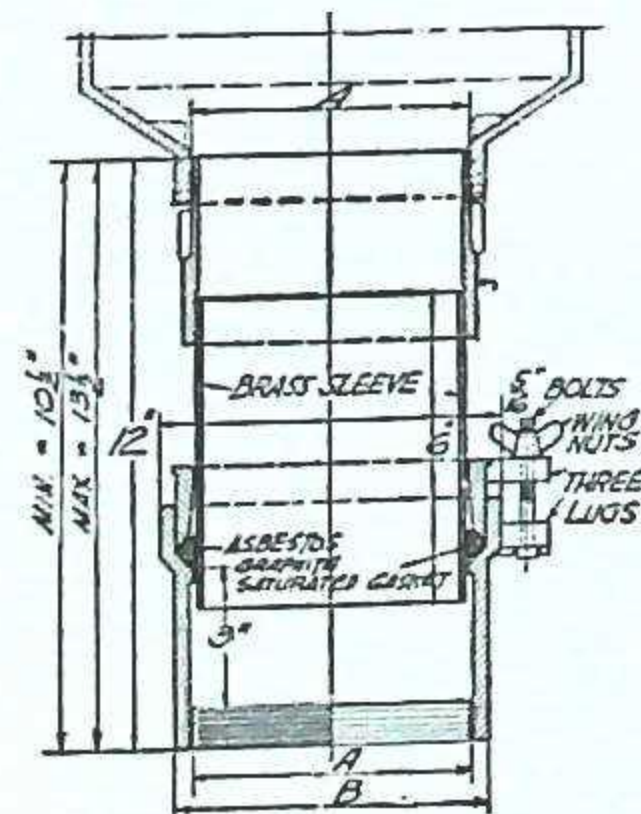
Heavy cast iron japanned body and ring, brass sleeve, male threaded top and female threaded bottom, unless otherwise ordered.

Also furnished with hub top and spigot bottom, when so ordered.

Conforms to U. S. Govt. Specification No. 448, Page 9, Par. 15(e).

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches			Weight, lbs.	C. I. Body, Brass Sleeve		All Brass
	A—Pipe Dia.	B	C		Jap'd	Galv.	
6002	2	3 1/8	3 5/8	7	\$5.50	\$6.50	\$9.00
6003	3	4 1/8	4 5/8	12	7.00	8.50	12.00
6004	4	5 1/8	5 5/8	15	8.00	10.00	14.00
6005	5	6 1/8	6 5/8	18	11.00	13.50	18.00
6006	6	7 1/8	7 5/8	20	13.00	16.00	22.00
6008	8	9 1/2	9 5/8	32	21.00	26.00	36.00



ILLUSTRATED INDEX OF JOSAM SWIMMING POOL EQUIPMENT

All Josam Swimming Pool Equipment which is to be located below water line should be ordered "Without Weepholes"

INLETS



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Series 2700—Page 45



Series 2210—FKB—Page 45



Series 2230FY—Page 45

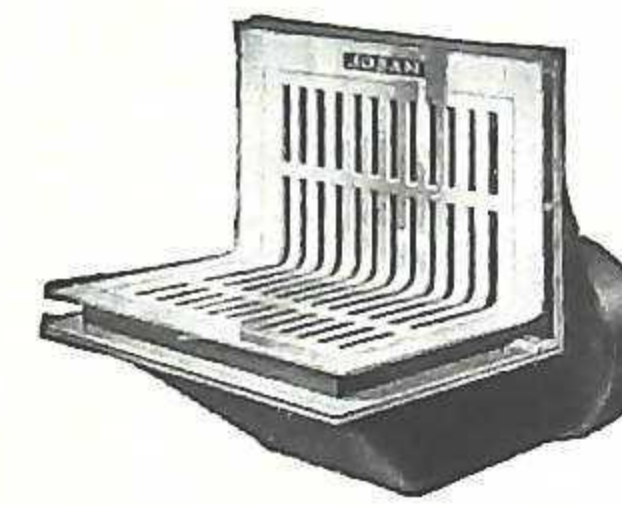


Series 2240H—Page 44

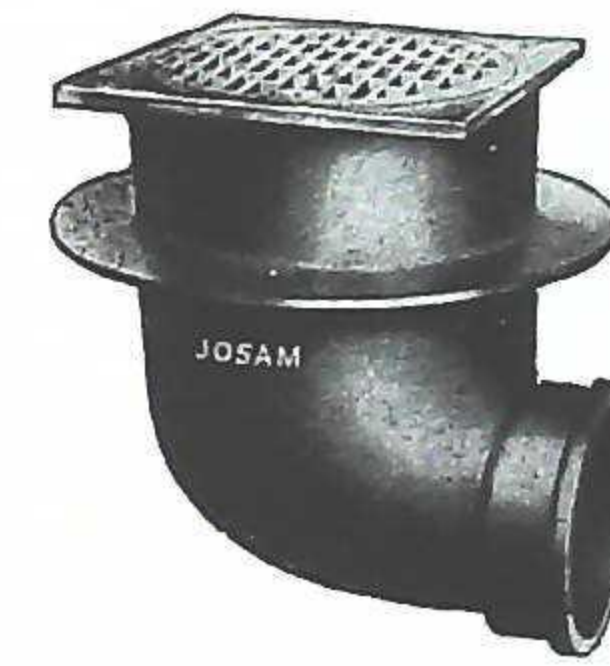
Not Illustrated

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- Series 2400 Page 44
- Series 2600 Page 45

OUTLETS



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Series 590M—Page 46



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Not Illustrated

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GUTTERS



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Series 2280F—Page 49



Series 2290E—Page 49

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- Gutters
- Series 2260 Page 48
- Series 2270 Page 49



Series 2250E—Page 48

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- Walkway Drains
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- Series 510 Page 16

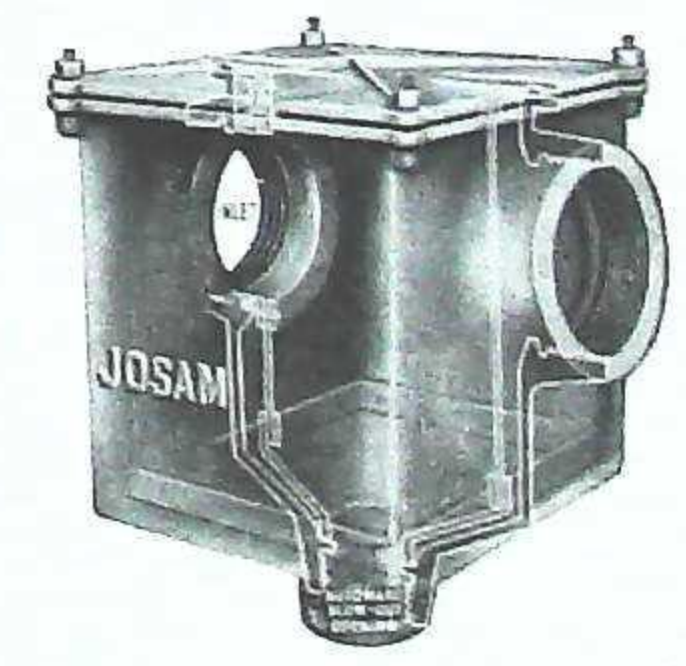
MISCELLANEOUS

Not Illustrated

- Series 5480FH Page 51
- Standing Waste Overflow Page 51
- Lane Marker Page 51
- Ladder Page 51
- Series 1100 and 1140 Page 33



Series 310CV—Page 50



Hair Interceptor—Page 50



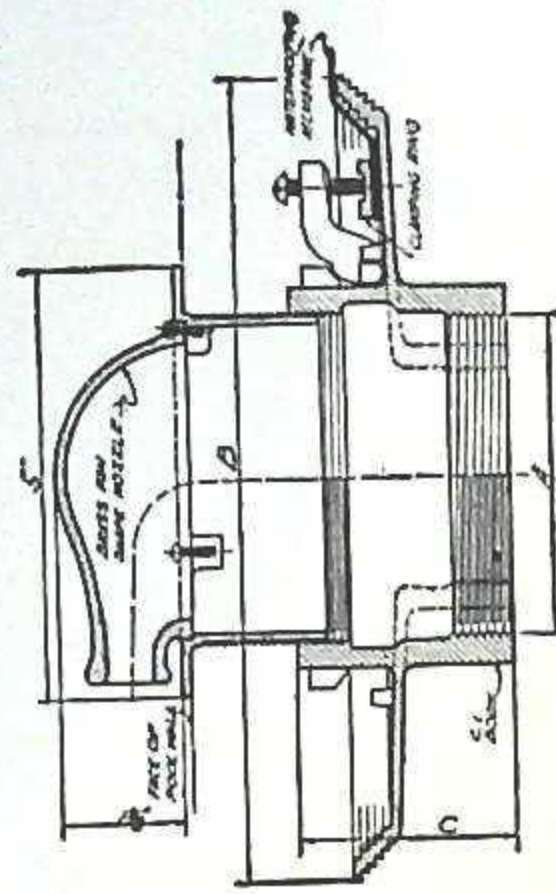
JOSAM FAN SHAPED INLET CONNECTION FOR SWIMMING POOLS

With or Without Flashing Clamping Device

SERIES 320CF

For use in swimming pool walls as inlet or circulating connection. When used as an inlet it deflects the water down the wall of the pool. Connection can be set at any lateral angle. The clamping device, securely holds the water-proofing membrane to the drain body by means of three brass clamping lugs, thereby making a water-tight connection.

General Construction
Cast iron japanned body, adjustable nickel-plated brass fan-shaped inlet, clamping device, female threaded connection to circulating lines, unless otherwise ordered.



Be sure to specify "No Weepholes" when used below water line in swimming pools.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches			Weight lbs.	C. I. Body, Brass Inlet		All Brass	Add for	
	A Pipe Connection	B	C		Jap'd.	Galv.		White Metal Inlet	Chrome Plate
321 1/2 CF	1 1/2	9 1/4	3	10 1/2	\$11.00	\$12.00	\$15.00	\$3.50	\$1.50
322 CF	2	9 1/4	3	10 1/2	11.00	12.00	15.00	3.50	1.50
323 CF	3	9 1/4	3 1/4	11	12.00	13.00	16.50	3.50	1.50
324 CF	4	10 1/4	3 1/4	12 1/2	13.00	14.50	18.00	3.50	1.50
Without Clamping Device, deduct					1.00	1.50	2.50		

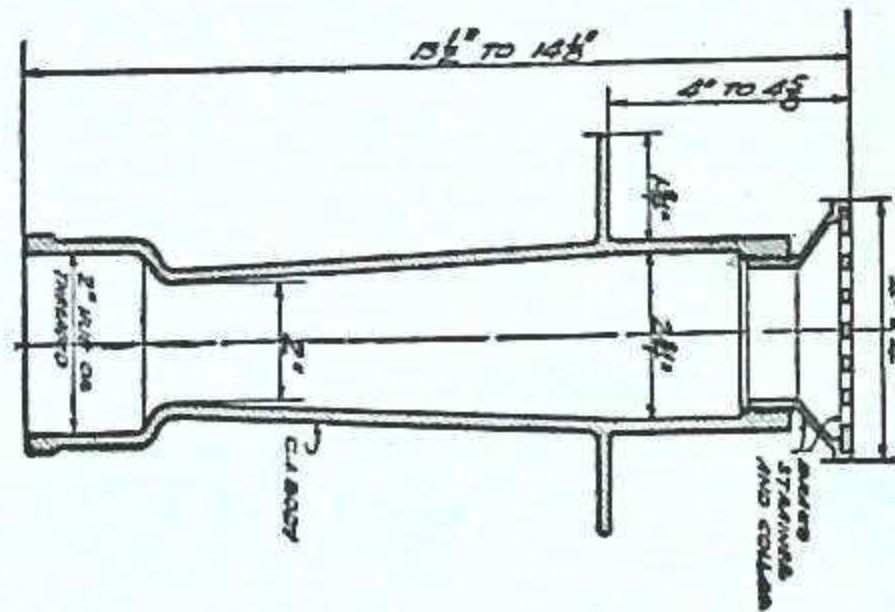
JOSAM INLET, OUTLET OR OVERFLOW CONNECTION FOR WATER SUPPLY OR CIRCULATING LINES IN SWIMMING POOLS

SERIES 2240H

Body is sufficiently long to extend through the wall of the pool, and the flat flange acts as an anchor in the construction or can be used to attach water-proofing membrane. The adjustable strainer provides means of meeting variations in thickness of swimming pool wall construction.

General Construction
Cast iron japanned body, polished brass square strainer. hub connection, unless otherwise ordered. Connection can be furnished female threaded when so ordered.

DIMENSIONS AND LIST PRICES



Type	Pipe Connection, in.	Strainer		Weight lbs.	C. I. Body, Brass Strainer		All Brass	Add for	
		Size in.	Type		Jap'd.	Galv.		White Metal Strainer	Chrome Plate
2242 H	2	4 x 4	16 K	10 1/2	\$ 8.50	\$10.00	\$14.30	\$1.50	\$0.60
2252 H	2	5 x 5	20 K	11	9.75	11.75	15.60	2.00	.80
2253 H	3	5 x 5	20 K	12 1/2	11.60	13.10	20.00	2.00	.80
2263 H	3	6 x 6	21 K	13	13.50	15.00	22.00	2.75	1.00
2264 H	4	6 x 6	21 K	15	16.00	17.50	26.50	2.75	1.00

JOSAM CONVERTIBLE INLET OR OUTLET FOR SWIMMING POOLS

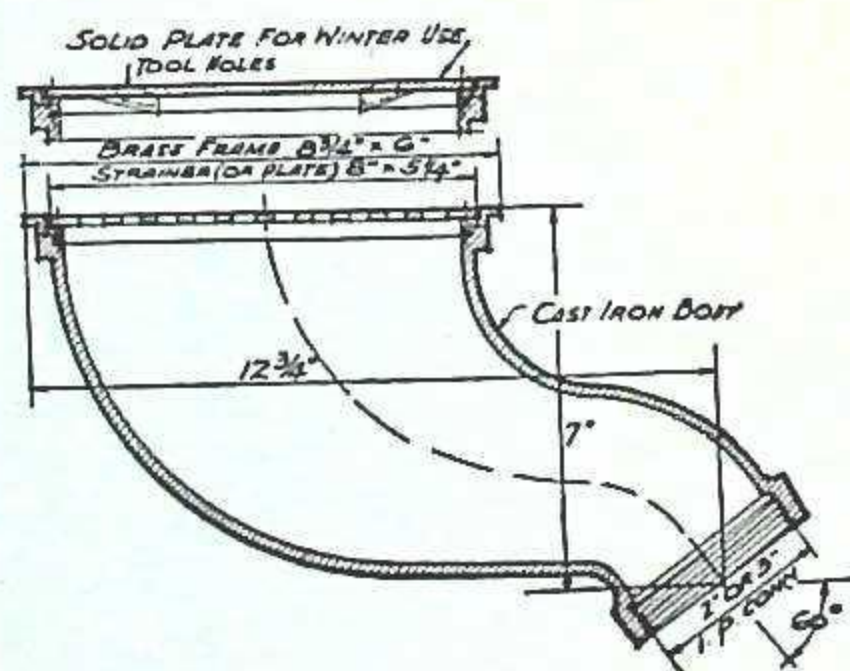
SERIES 2400

For use in outdoor swimming pools where a convertible unit is desired as an inlet or outlet. The strainer plate can be removed and in its place, a solid plate inserted so as to hold water in the pool for freezing when ice is desired during the skating season. Plate is gasket-tight, thereby preventing any seepage of water to outlet lines during freezing weather.

General Construction
Cast iron body, brass frame, brass strainer, brass solid plate, gasket, threaded connection set at 60° off horizontal, unless otherwise ordered. Furnished with adaptor for spigot connection when so ordered.

DIMENSIONS AND LIST PRICES

Type	Pipe Connection, in.	Strainer and Solid Plate, in.	Weight lbs.	C. I. Body, Brass Top and Solid Plate		All Brass	Add for	
				Jap'd.	Galv.		White Metal Top	Chrome Plate
2402	2	8 x 5 3/4	22	\$18.00	\$19.50	\$32.00	\$6.50	\$3.00
2403	3	8 x 5 3/4	22	18.00	19.50	32.00	6.50	3.00
Strainer Plate				3.50	3.50	3.50		
Solid Plate				5.25	5.25	5.25		



JOSAM ALL BRASS LION HEAD SWIMMING POOL INLET OR FOUNTAIN SPOUT

SERIES 2700

For use where a decorative inlet is required for swimming pools and fountains.

General Construction

Polished cast brass body, female threaded connection.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches				Weight, lbs.	All Brass
	Inlet	Width	Height	Depth		
2701 1/2	1 1/2	9 1/2	10 3/4	4 3/4	11	\$30.00
2702	2	9 1/2	10 3/4	4 3/4	11	30.00

JOSAM ALL BRASS UNDER SURFACE OR SKIMMER SPRAY FRESH WATER INLET FOR SWIMMING POOLS

For use where a spray of fresh water directly under the surface of the water in the pool is desired as an aid to circulation and vacuum pool cleaning.

SERIES 2210FKB

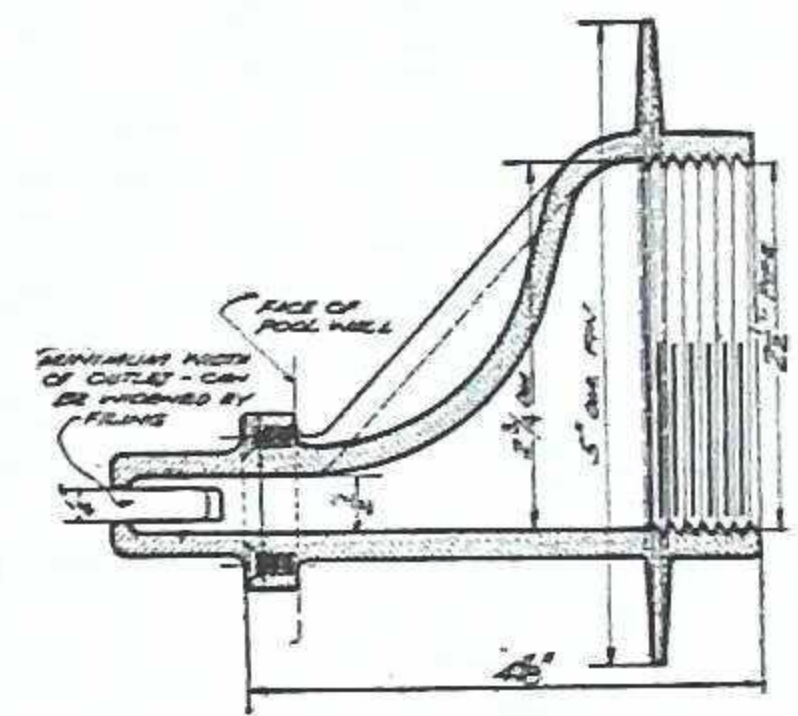
Set straight in pool wall. The slot in the removable fan shaped face plate can be enlarged by filing.

General Construction

All brass body, fan shaped face plate, female threaded inlet, unless otherwise ordered. Can be furnished with slotted flat face plate instead of fan shaped, when so ordered, at no additional cost.

DIMENSIONS AND LIST PRICES

Type	Inlet, in.	Weight, lbs.	All Brass	Add for	
				White Metal Face Plate	Chrome Plate
2212FKB	2	4 1/2	\$9.50	\$1.50	\$0.60
2212 1/2 FKB	2 1/2	4 1/2	9.50	1.50	.60



SERIES 2230FY

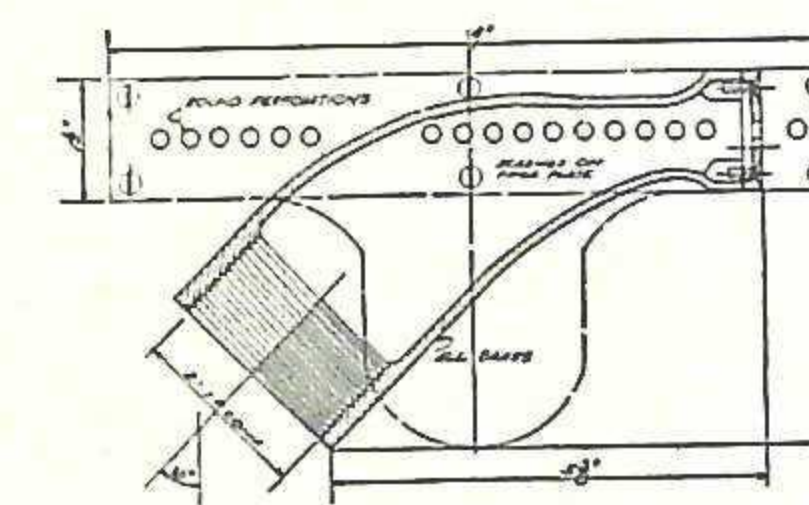
Inlet end is set at an angle in the pool wall so that the fresh water piping will clear scum gutter construction. The round perforations in the removable face plate can be enlarged by filing.

General Construction

All brass body, removable perforated face plate, female threaded inlet, unless otherwise ordered. Slotted face plate furnished when so ordered, at no additional cost.

DIMENSIONS AND LIST PRICES

Type	Inlet, in.	Weight, lbs.	All Brass	Add for	
				White Metal Face Plate	Chrome Plate
2231 1/2 FY	1 1/2	7	\$10.50	\$1.50	\$0.60
2232 FY	2	7	10.50	1.50	.60



JOSAM ALL BRASS SKIMMER SPRAY FRESH WATER INLET FOR SWIMMING POOLS

SERIES 2600

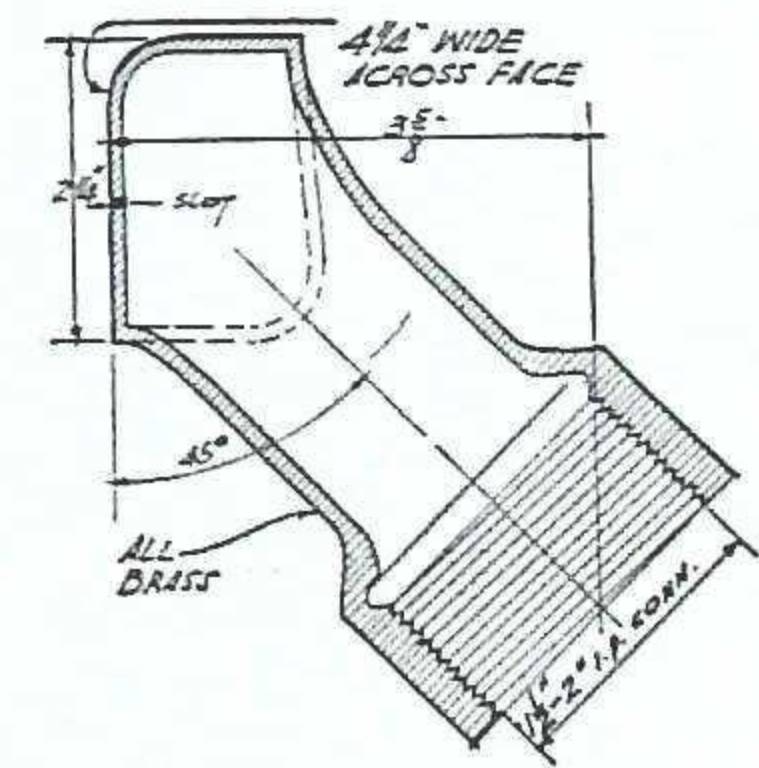
For use in swimming pools where a spray of fresh water is desired in top layer of pool water. The contour of the face permits setting this fitting flush with the upper curve of the gutter nosing. It is not applicable to location below normal water line of pool. Inlet is designed to set at an angle so that the piping to fitting will clear gutter construction.

General Construction

All brass body and integral slotted face plate, female threaded inlet.

DIMENSIONS AND LIST PRICES

Type	Inlet, in.	Weight, lbs.	All Brass	All White Metal	Add for
					Chrome Plate
2601 1/2	1 1/2	3 1/2	\$6.60	\$9.90	\$1.00
2602	2	3 1/2	6.60	9.90	1.00





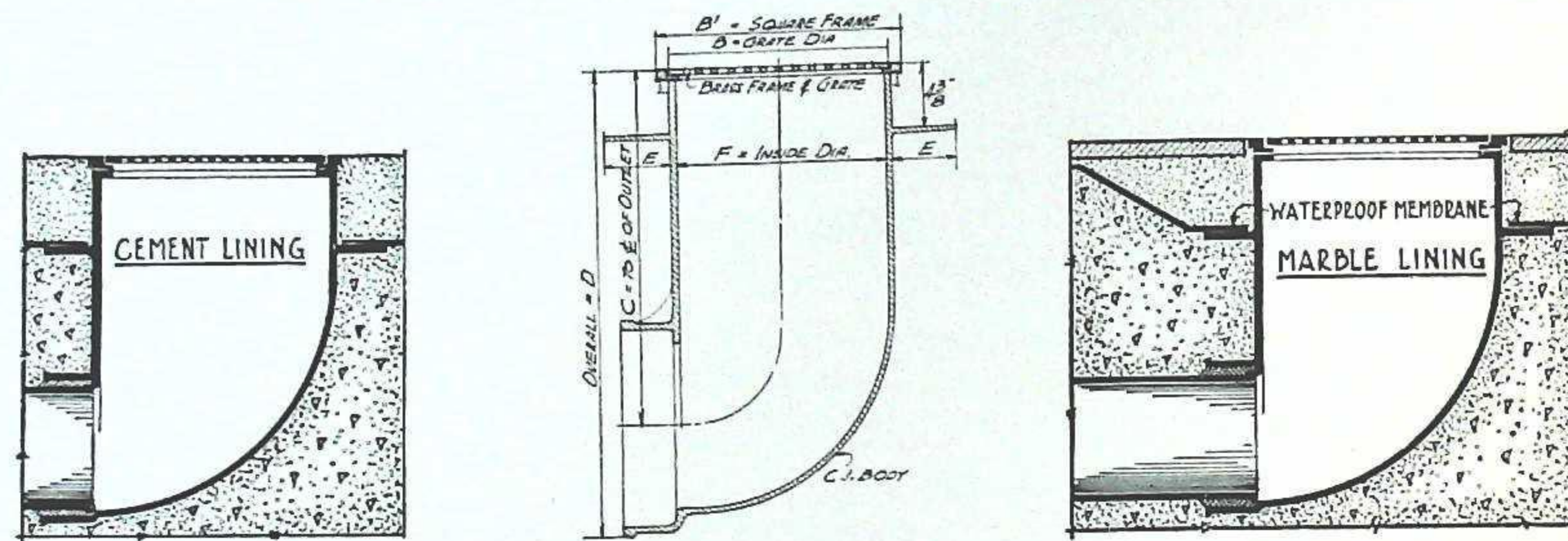
JOSAM MAIN OUTLET DRAIN FOR SWIMMING POOLS

SERIES 590M

For use as a main outlet drain in swimming pools where construction requires a side outlet drain with an exceptionally large drainage area. The flange acts as an anchor in the construction or can be used to attach water-proofing membrane. The large body and large diameter grate allow for quick drainage of pool.

General Construction

Heavy cast iron body, brass square frame and brass round grate, hub outlet, unless otherwise ordered. Can be furnished with threaded outlet or with adaptor for spigot connection when so ordered.



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches								Wt., lbs.	C. I. Body, Brass Top		Cast Iron		All Brass	Add to Brass Top List Price for	
	A Outlet	B	B ¹	C	D	E	F	Jap'd.		Galv.	Jap'd.	Galv.	White Metal Top		Chrome Plate	
	594 M	4	11	12x12	14 ¹¹ / ₁₆	18	21 ¹ / ₂	10		84	\$43.00	\$52.50	\$34.00		\$45.50	\$94.00
595 M	5	11	12x12	14 ³ / ₁₆	18	21 ¹ / ₂	10	84	43.00	52.50	34.00	45.50	94.00	9.00	4.00	
596 M	6	11	12x12	13 ¹¹ / ₁₆	18	21 ¹ / ₂	10	84	43.00	52.50	34.00	45.50	94.00	9.00	4.00	
Grate		11							8.00	8.00	2.50	4.00	8.00			
598 M	8	14	15 ¹ / ₄ x15 ¹ / ₄	22 ³ / ₄	28 ¹ / ₂	4	13 ¹ / ₈	175	70.00	83.00	53.00	65.00	190.00	16.00	6.00	
599 M	10	14	15 ¹ / ₄ x15 ¹ / ₄	21 ³ / ₄	28 ¹ / ₂	4	13 ¹ / ₈	175	70.00	83.00	53.00	65.00	190.00	16.00	6.00	
Grate		14							13.00	13.00	4.50	6.50	13.00			

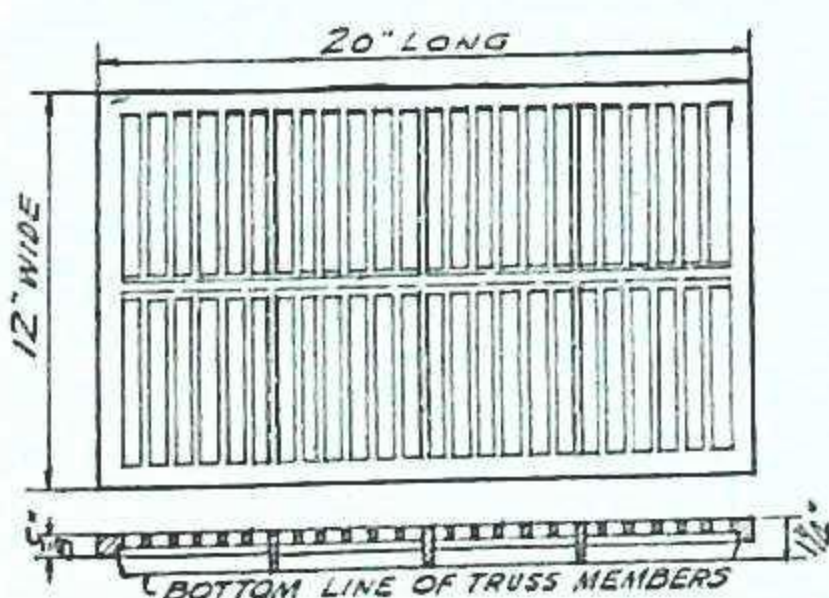
JOSAM TROUGH GRATE FOR SWIMMING POOLS

SERIES 2750

For use in outdoor swimming pools over outlet trough. Grate is designed to fit into brass frame over the trough in the floor of pool, in which trough the outlet drain or drains are located. In this manner, the drag of the water to the outlets is broken up.

General Construction

All brass of heavy construction with horizontal and cross trussed members for added strength. The grate is sufficiently reinforced to support the weight of workmen during cleaning of pool.



DIMENSIONS AND LIST PRICES

Type	Grate, in.	Weight, lbs.	Brass, Nickel Plated or Polished	Cast Iron	Add to Brass List Price for	
					White Metal	Chrome Plate
2750	12x20	27	\$18.00	\$8.00	\$9.00	\$4.00



JOSAM REVERSIBLE ANGLE MAIN OUTLET DRAIN FOR SWIMMING POOLS

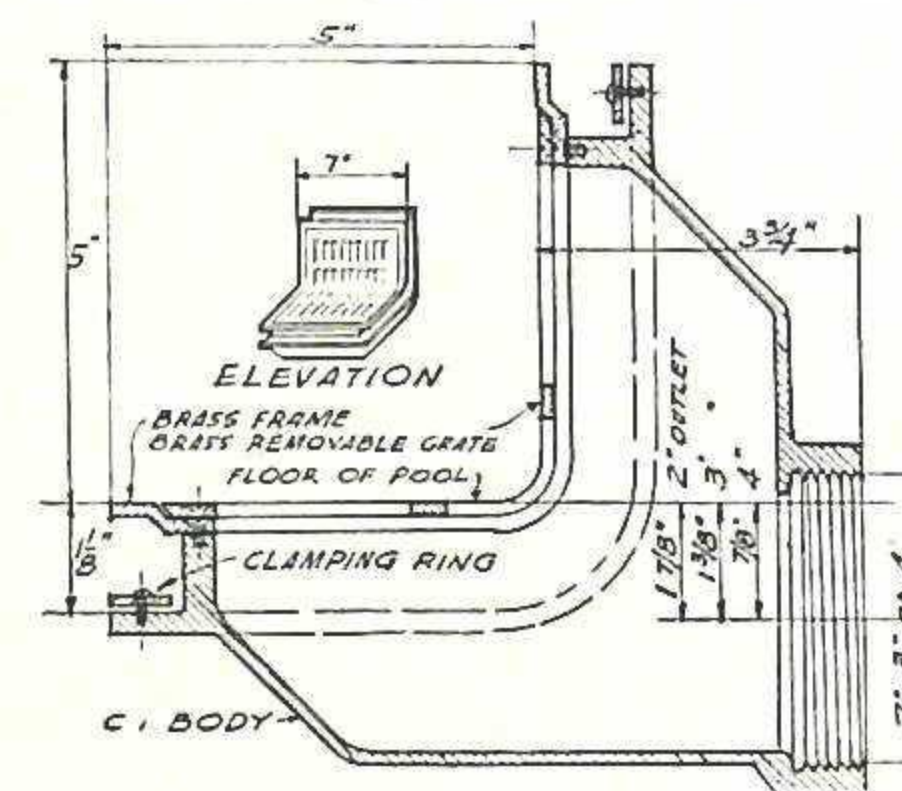
With Flashing Clamping Device

SERIES 1200

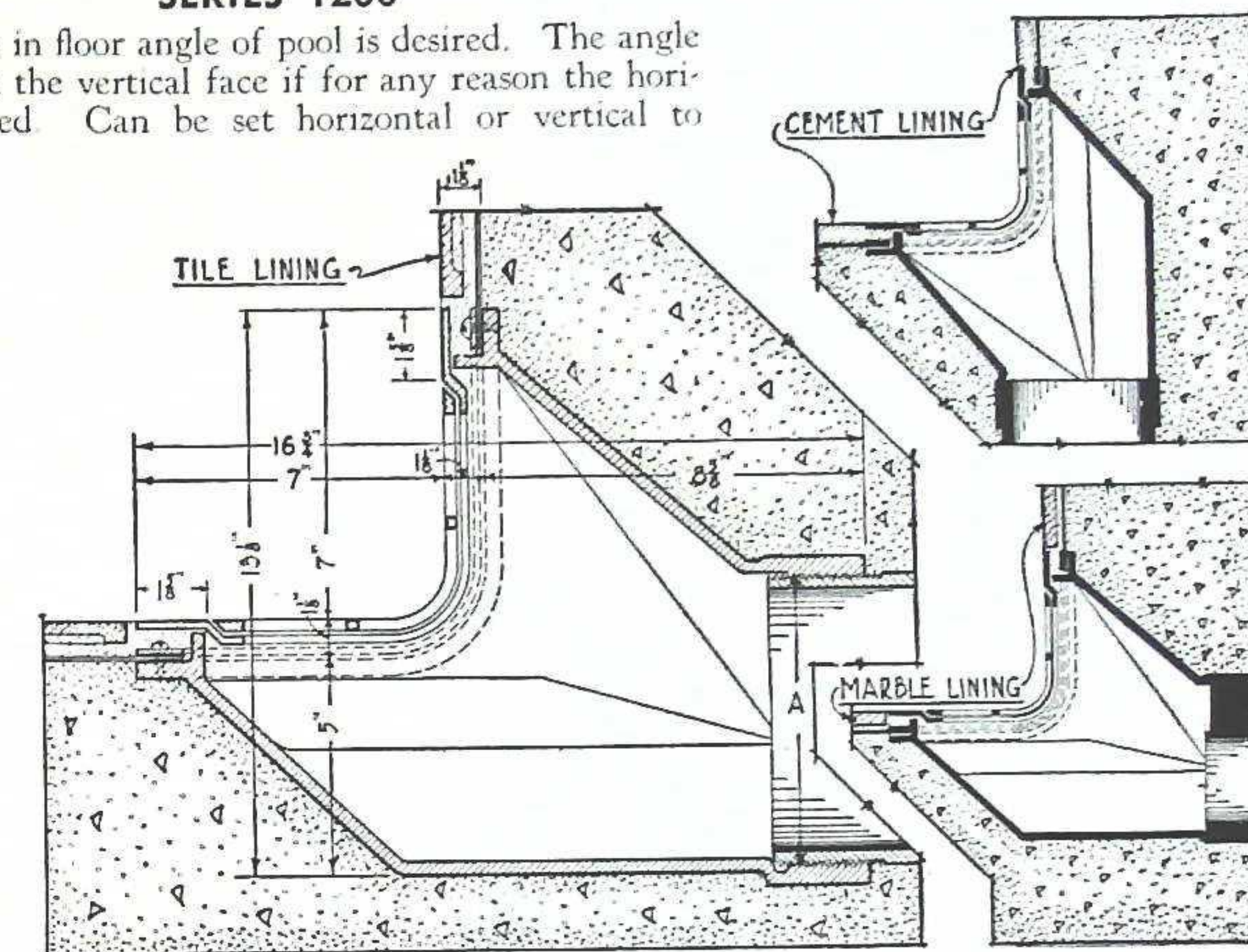
For use where large capacity outlet drain in floor angle of pool is desired. The angle drainage surface provides drainage through the vertical face if for any reason the horizontal drainage surface becomes obstructed. Can be set horizontal or vertical to conform to pool construction and piping layout. Clamping ring holds water-proofing membrane to the drain body, thereby making a watertight connection. The angle grate is removable.

General Construction

Heavy cast iron japanned body, brass frame and grate, brass clamping device, female threaded outlet, unless otherwise ordered. Outlet can be furnished with adaptor for hub or spigot connection, when so ordered.



Series 1230



SERIES 1230

Identical in construction with Series 1200 except that Series 1230 is a lighter weight drain and is recommended where a smaller drainage area is desired in floor angle of pool.

DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Grate (each face) in.	Weight, lbs.	C. I. Body, Brass Top, Brass Cl. Dev.		All Cast Iron		All Brass	Add to Brass Top List Price for	
				Jap'd.	Galv.	Jap'd.	Galv.		White Metal Top	Chrome Plate
1204	4	10x6	58	\$40.00	\$46.00	\$28.00	\$36.00	\$71.50	\$16.00	\$6.00
1205	5	10x6	58	40.00	46.00	28.00	36.00	71.50	16.00	6.00
1206	6	10x6	58	40.00	46.00	28.00	36.00	71.50	16.00	6.00
1232	2	7x5	29	26.75	29.00	18.75	21.00	48.50	9.00	4.00
1233	3	7x5	29	26.75	29.00	18.75	21.00	48.50	9.00	4.00
1234	4	7x5	29	26.75	29.00	18.75	21.00	48.50	9.00	4.00

JOSAM MAIN OUTLET DRAIN FOR SWIMMING POOLS

SERIES 1300

For use where construction requires a drain with exceptionally large drainage area. The 24-in. diameter round grate set in a 24³/₈-in. square frame, contains 316 half-inch holes with an area of 63 sq. in., which affords ample drainage and speed in emptying the pool and reduces friction at main outlet point.

General Construction

Heavy cast iron body, brass square frame and round grate, outlet for inside caulking, unless otherwise ordered.

DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Grate, in.	Weight, lbs.	C. I. Body, Brass Top		Add for	
				Jap'd.	Galv.	White Metal Top	Chrome Plate
1304	4	24	165	\$88.50	\$97.50	\$28.00	\$16.00
1305	5	24	165	88.50	97.50	28.00	16.00
1306	6	24	165	88.50	97.50	28.00	16.00
1308	8	24	165	88.50	97.50	28.00	16.00



JOSAM ALL BRASS SCUM GUTTER DRAIN FOR SWIMMING POOLS

SERIES 2200E

For use in swimming pool scum gutters or any place which requires a narrow but efficient drain. The rectangular shaped strainer permits its use in narrow gutters and at the same time insures adequate water way. Slots in the strainer face parallel the direction of flow into the scum gutter.

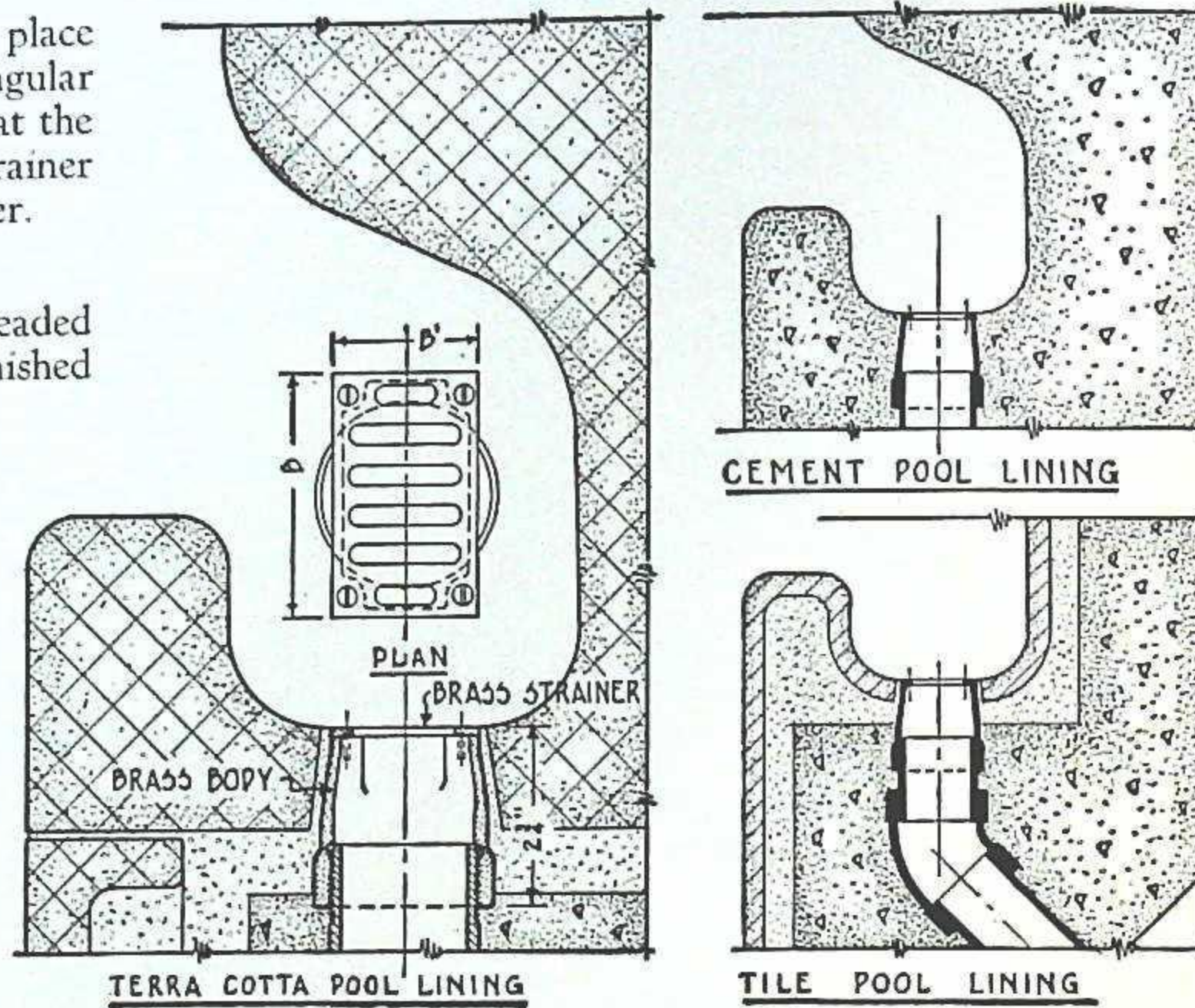
General Construction

Cast brass body and flat strainer, recessed female threaded outlet, unless otherwise ordered. Outlet can be furnished with adaptor for spigot connection, when so ordered.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches			Weight lbs.	All Brass	Add for	
	A Outlet	B	B'			White Metal Top	Chrome Plate
2201 1/2 E	1 1/2	3 3/4	2 1/4	1 3/4	\$4.50	\$1.50	\$0.60
2202 E	2	3 3/4	2 1/4	1 3/4	4.50	1.50	.60
2202 1/2 E	2 1/2	5 3/8	2 1/2	2 3/4	7.00	2.75	1.00
2203 E	3	5 3/8	2 1/2	3	7.00	2.75	1.00

Concave face plate furnished when so ordered, at no additional cost.



JOSAM ALL BRASS ANGLE SCUM GUTTER DRAIN FOR SWIMMING POOLS

SERIES 2260

For use in swimming pool scum gutters or any place where a narrow angle drain is desired. Outlet placed at a 45° angle so that the drainage line is brought outside of the pool wall section with a minimum of fittings. The angle drainage surface provides drainage through the vertical face

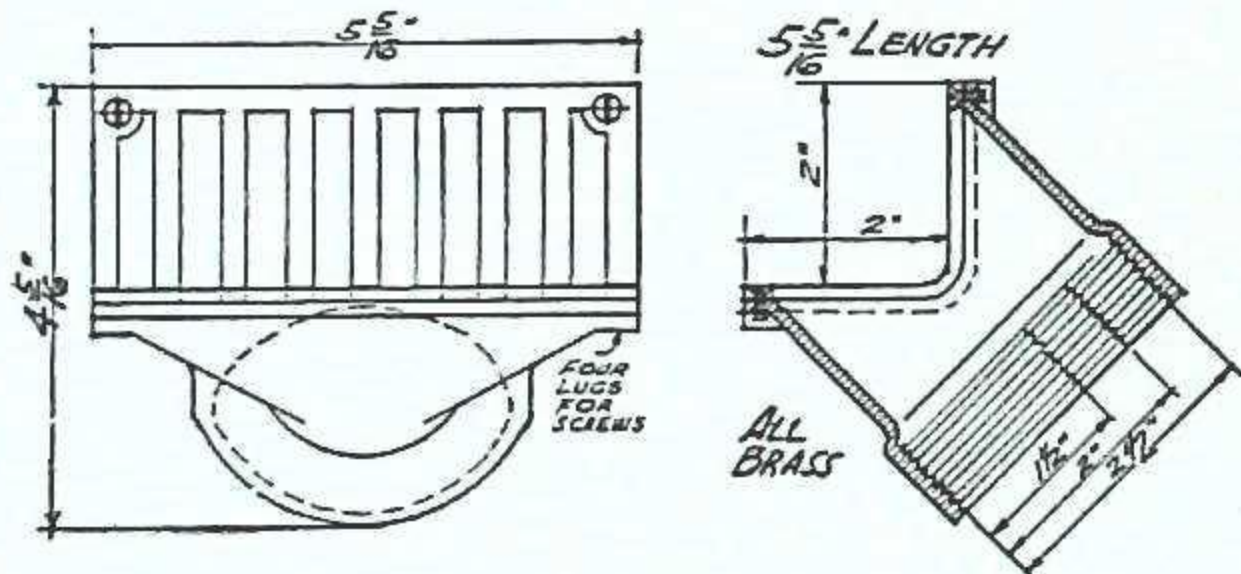
if for any reason the horizontal drainage surface becomes obstructed.

General Construction

All brass body with polished brass face plate, female threaded outlet, unless otherwise ordered.

DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Top (Each Face), in.	Weight lbs.	All Brass	Add for	
					White Metal Top	Chrome Plate
2261 1/2	1 1/2	5 5/16 x 2	2 1/4	\$6.50	\$2.75	\$1.00
2262	2	5 5/16 x 2	2 3/4	6.50	2.75	1.00
2262 1/2	2 1/2	5 5/16 x 2	2 3/4	6.50	2.75	1.00



JOSAM SCUM GUTTER DRAIN WITH BRASS TOP FOR SWIMMING POOLS

SERIES 2250E

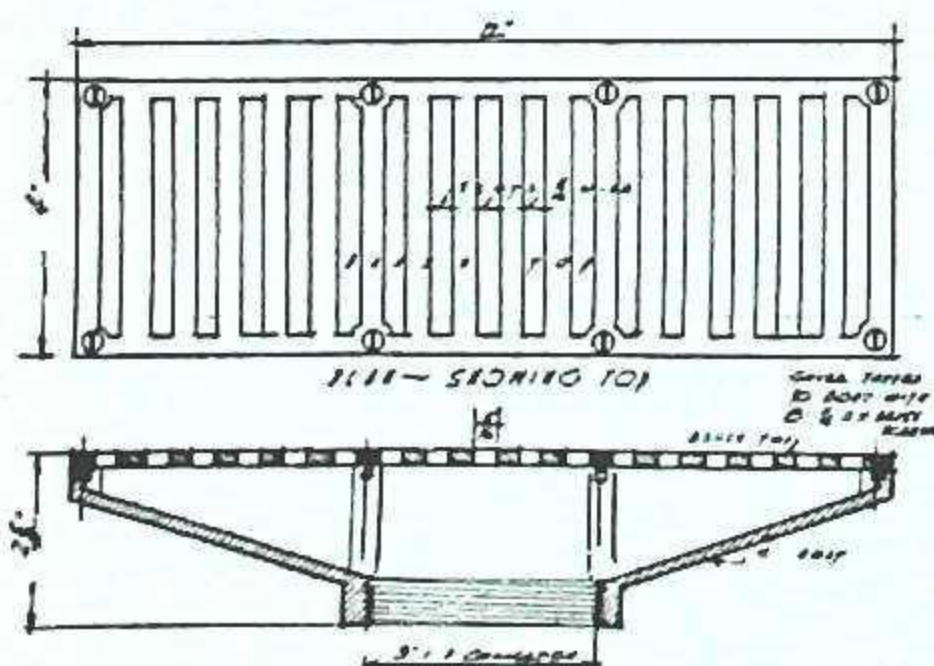
General Construction

For use in scum gutters of large pools where there is need for greater orifice area in the strainer plate. The slots parallel the direction of flow from pool into scum gutter.

Cast iron body, brass strainer, female threaded outlet, unless otherwise ordered. Outlet can be furnished with adaptor for spigot connection when so ordered.

DIMENSIONS AND LIST PRICES

Type	Outlet in.	Grate in.	Weight lbs.	C. I. Body with Brass Top		All Brass	Add to Brass Top List Price for	
				Jap'd.	Galv.		White Metal Top	Chrome Plate
2252 E	2	12 x 4	15 1/2	\$7.50	\$9.00	\$15.00	\$3.50	\$1.50
2252 1/2 E	2 1/2	12 x 4	15 1/2	7.50	9.00	15.00	3.50	1.50
2253 E	3	12 x 4	15 1/2	7.50	9.00	15.00	3.50	1.50



JOSAM SCUM GUTTER DRAINS FOR SWIMMING POOLS

For use in swimming pool scum gutters or wherever a drain with ample drainage area is required. The slots in the strainer parallel the direction of flow into the scum gutter. The inner contour of the body affords quick drainage of scum gutter. All interior corners are rounded to prevent fouling.

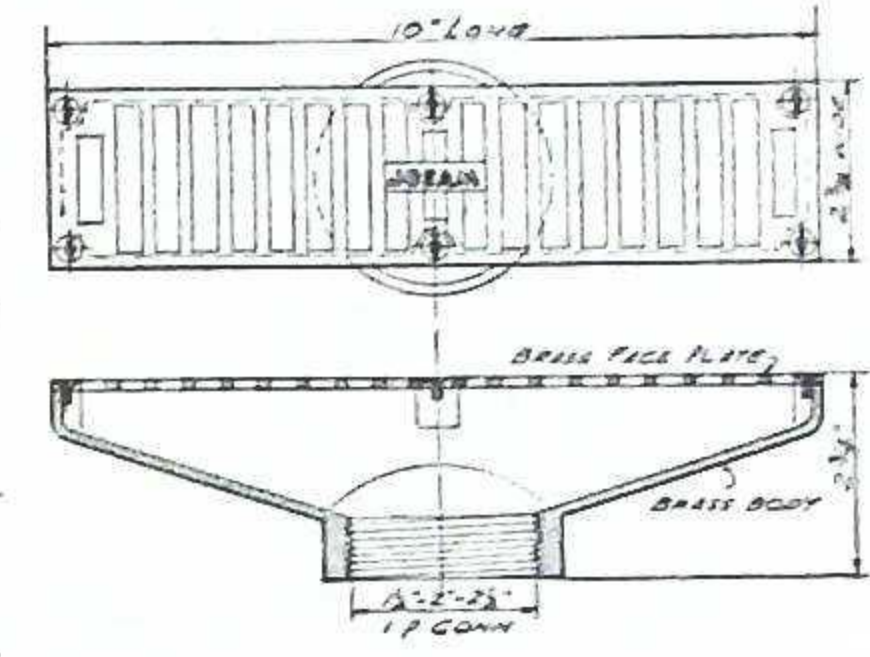
SERIES 2270

General Construction

Cast brass body and strainer, female threaded outlet, unless otherwise ordered.

DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Strainer, in.	Weight, lbs.	All Brass	Add for	
					White Metal Strainer	Chrome Plate
2271 1/2	1 1/2	10x2 3/8	3 1/2	\$8.50	\$2.75	\$1.00
2272	2	10x2 3/8	3 1/2	8.50	2.75	1.00
2272 1/2	2 1/2	10x2 3/8	3 1/2	8.50	2.75	1.00



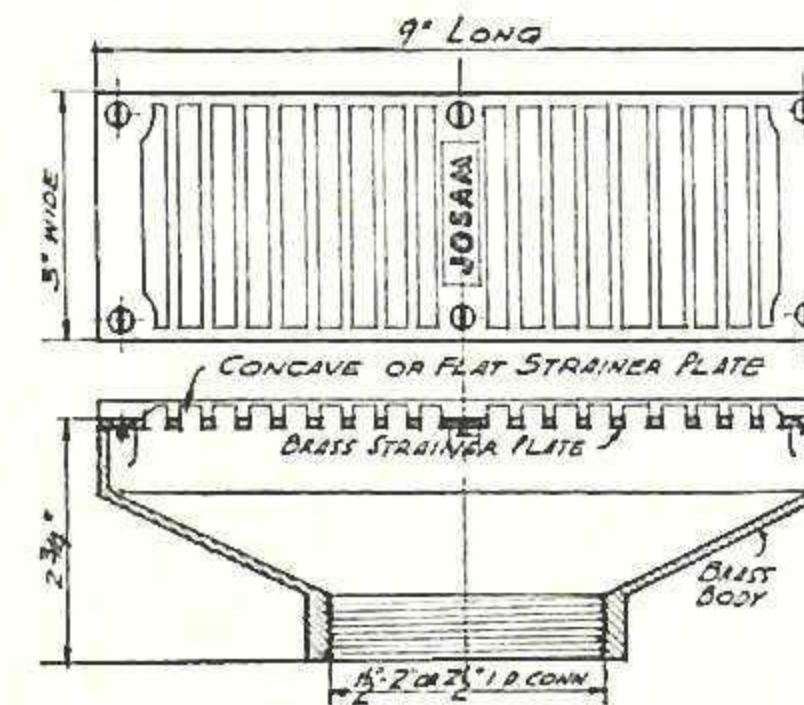
SERIES 2280

General Construction

All brass body with concave strainer, female threaded outlet, unless otherwise ordered. Flat strainer furnished when so ordered at no additional cost.

DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Strainer, in.	Weight, lbs.	All Brass	Add for	
					White Metal Strainer	Chrome Plate
2281 1/2	1 1/2	9x3	3	\$8.00	\$2.75	\$1.00
2282	2	9x3	3	8.00	2.75	1.00
2282 1/2	2 1/2	9x3	3	8.00	2.75	1.00



SERIES 2280F

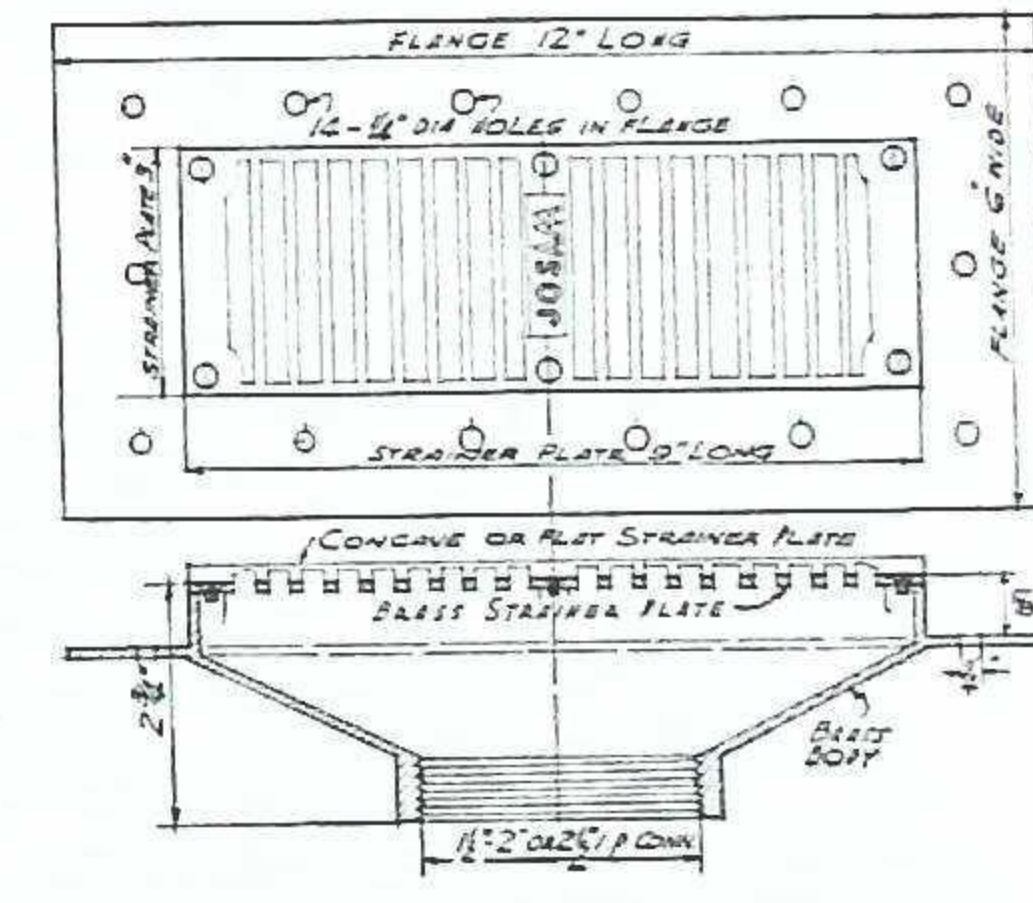
For use primarily where art marble is used in pool facing. The flange has fourteen 1/4-in. round perforations spaced on 2-in. centers for lacing art marble into position.

General Construction

All brass body with concave strainer, female threaded outlet, unless otherwise ordered. Flat strainer furnished when so ordered at no additional cost.

DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Strainer, in.	Weight, lbs.	All Brass	Add for	
					White Metal Strainer	Chrome Plate
2281 1/2F	1 1/2	9x3	4 1/2	\$9.50	\$2.75	\$1.00
2282F	2	9x3	4 1/2	9.50	2.75	1.00
2282 1/2F	2 1/2	9x3	4 1/2	9.50	2.75	1.00



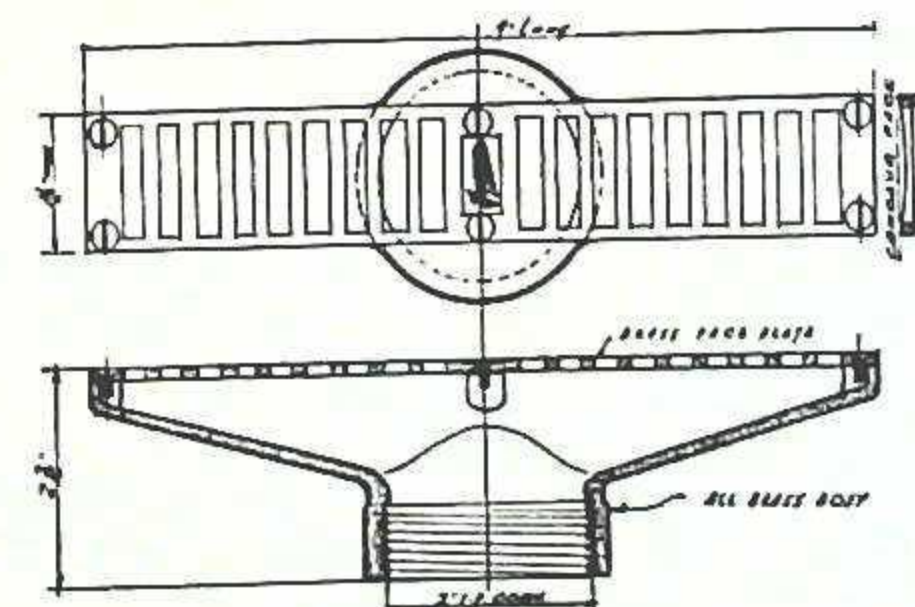
SERIES 2290E

General Construction

All brass body with concave strainer, female threaded outlet, unless otherwise ordered. Flat strainer furnished when ordered, at no additional cost.

DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Strainer, in.	Weight, lbs.	All Brass	Add for	
					White Metal Strainer	Chrome Plate
2291 1/2E	1 1/2	9x1 1/2	2 3/8	\$7.00	\$2.00	\$1.00
2292 E	2	9x1 1/2	2 3/8	7.00	2.00	1.00





JOSAM ATTACHMENT FOR VACUUM CONNECTION FOR SWIMMING POOLS

With or Without Flashing Clamping Device

SERIES 310CV

For use in swimming pool walls for vacuum cleaner connections. Installed vertically in the pool wall. The clamping device securely holds the water-proofing membrane to drain body by means of three clamping lugs, thereby making a watertight connection. The brass vacuum connection is adjustable to meet variation in wall thickness.

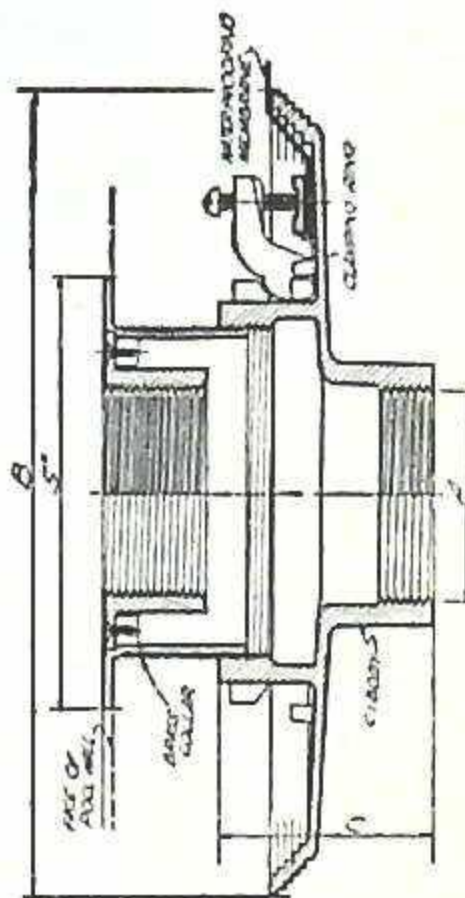
General Construction

Cast iron japanned body, nickel-plated brass adjustable vacuum connection with 2-in. I.P. opening without plug, clamping device, female threaded connection to vacuum line, unless otherwise ordered. Brass plug to fit flush with top of connection, furnished when so ordered.

Be sure to specify "No Weepholes" when used below water line in swimming pools.

DIMENSIONS AND LIST PRICES

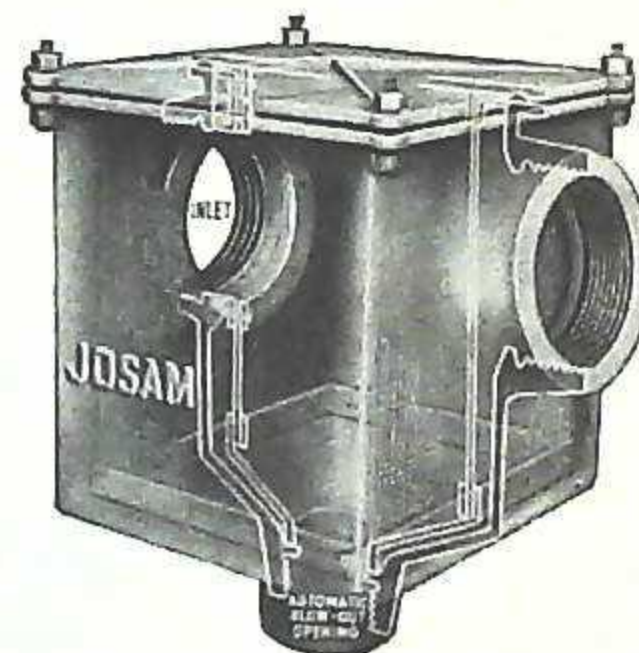
Type	Dimensions in Inches			Weight lbs.	C. I. Body, Brass Connection		All Brass	Add for	
	A Outlet	B	C		Jap'd.	Galv.		White Metal Connection	Chrome Plate
311 1/2 CV	1 1/2	9 1/4	3	10	\$10.50	\$ 11.50	\$14.50	\$2.50	\$1.00
312 CV	2	9 1/4	3	10	10.50	11.50	14.50	2.50	1.00
313 CV	3	9 1/4	3 1/4	10 1/2	11.50	12.50	16.00	2.50	1.00
314 CV	4	10 1/4	3 1/4	12	12.50	14.00	17.50	2.50	1.00
Without Clamping device, deduct					1.00	1.50	2.50		
Brass plug, add					1.00	1.00	1.00		



JOSAM HAIR INTERCEPTOR FOR CIRCULATING LINES WITH BLOWOUT CONNECTION FOR SWIMMING POOLS

TYPE H

Particularly adaptable as hair catcher in swimming pools and for use on pressure line to pumps, floats, filters, water softeners and bleaching tanks, to intercept hair, lint, sand, gravel and other solids and small particles which should be prevented from entering lines to any equipment. The screen basket made of No. 8 gauge bronze wire with a screening area of approximately 278 sq. in. (less the area of the pipe line), is easily removable for cleaning and is easily placed back into correct position by a special arrangement of the contour of the top of the basket. The opening in the screen opposite the inlet is a wedge type connection so that all water must pass through the screen before discharging out of the interceptor. The solid cast brass hopper shape bottom of the screen basket, rests into a recess which is threaded for 2-in. I.P. blowout valve for use in temporary cleaning of interceptor without shutting down the line. The flow direction is indicated on the exterior of the interceptor body so that proper hook-up is assured. Designed for 150 lbs. pressure.



General Construction

Heavy cast iron grey enamel body with removable gasket-tight cover held in position on the body by four 3/8-in. brass hexagon head nuts which screw on to four 3/8-in. steel studs threaded into upper portion of body, female threaded I.P. connection unless otherwise ordered. Furnished with flanged connection when so ordered.

DIMENSIONS AND LIST PRICES

Type	Size, in.	Weight, lbs.	Cast Iron, Grey Enamel		Add for Flanged Connections	
			Jap'd.	Galv.	Jap'd.	Galv.
H-2	2	84	\$73.00	\$82.50	\$29.20	\$33.00
H-3	3	84	73.00	82.50	29.20	33.00
H-4	4	84	75.50	84.70	30.20	33.85
H-5	5	84	76.50	85.70	30.60	34.30
H-6	6	84	77.50	87.00	31.00	34.80



JOSAM FILTER HEAD FOR SWIMMING POOLS

With or Without Flashing Clamping Device

SERIES 5480FH

For use as a swimming pool outlet to regulate the discharge of water from pool. All discharge of water out of pool passes through openings in grate and then through the regulating holes in grate and then through the receptacle below the grate and finally into line to pump and filters. The openings in the receptacle are drilled in accordance with the engineers' requirements, calculated on a specific ratio of discharge of water out of pool in a definite specified time. It is necessary that the discharge area through receptacle be specified in

order to provide the correct number of openings in walls of receptacle.

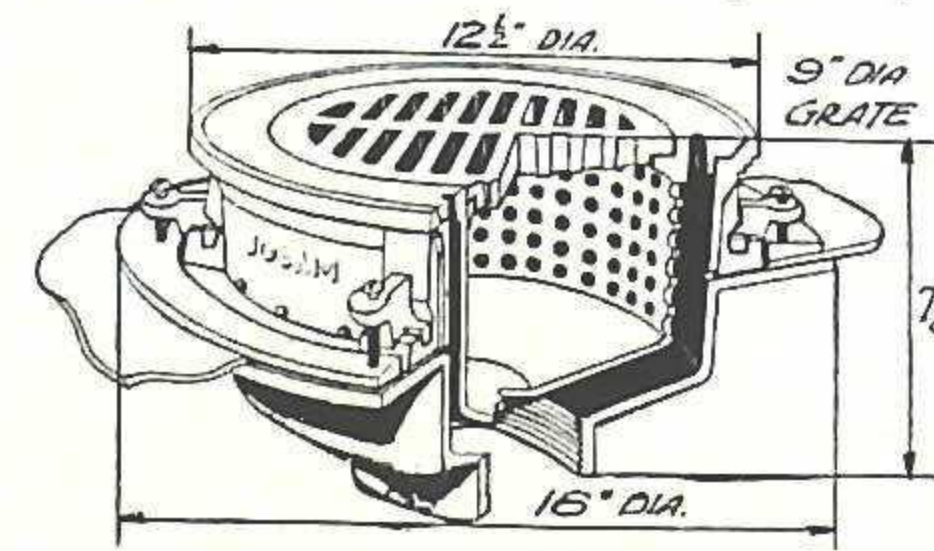
General Construction

All cast iron body with cast iron receptacle and brass top, female threaded outlet, unless otherwise ordered. Outlet can be furnished for inside caulking or with adaptor for spigot connection when so ordered.

Be Sure to Specify Discharge Area Through Receptacle

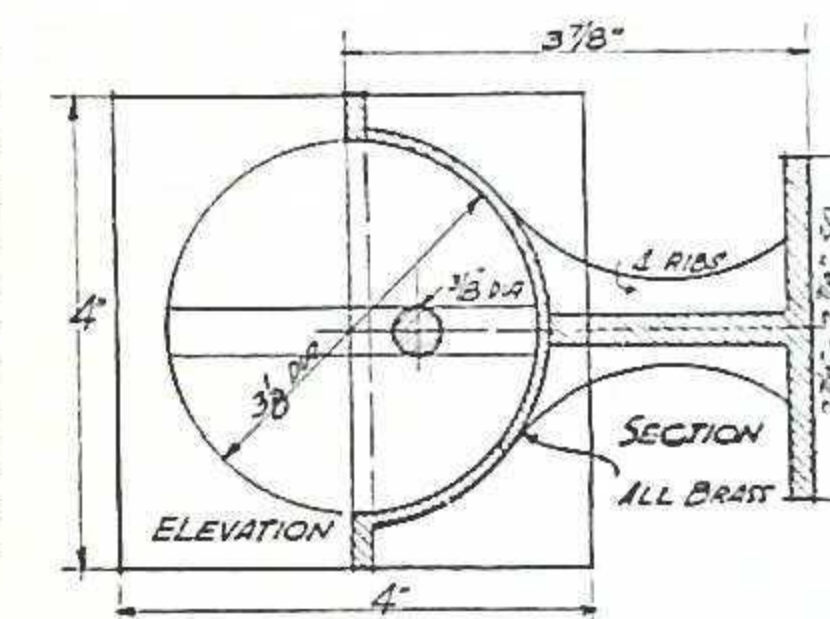
DIMENSIONS AND LIST PRICES

Type	Outlet, in.	Grate, in.	C. I. Body Brass Top		All Cast Iron		Add to Brass Top List Price for	
			Jap'd.	Galv.	Jap'd.	Galv.	White Metal Top	Chrome Plate
5483	3	9	\$34.00	\$41.00	\$18.00	\$26.00	\$6.00	\$2.00
5484	4	9	34.00	41.00	18.00	26.00	6.00	2.00
5485	5	9	34.00	41.00	18.00	26.00	6.00	2.00
5486	6	9	34.00	41.00	18.00	26.00	6.00	2.00
Clamping Device, add			2.00	2.50	2.00	2.50		



JOSAM CAST BRASS LANE MARKER FOR SWIMMING POOLS

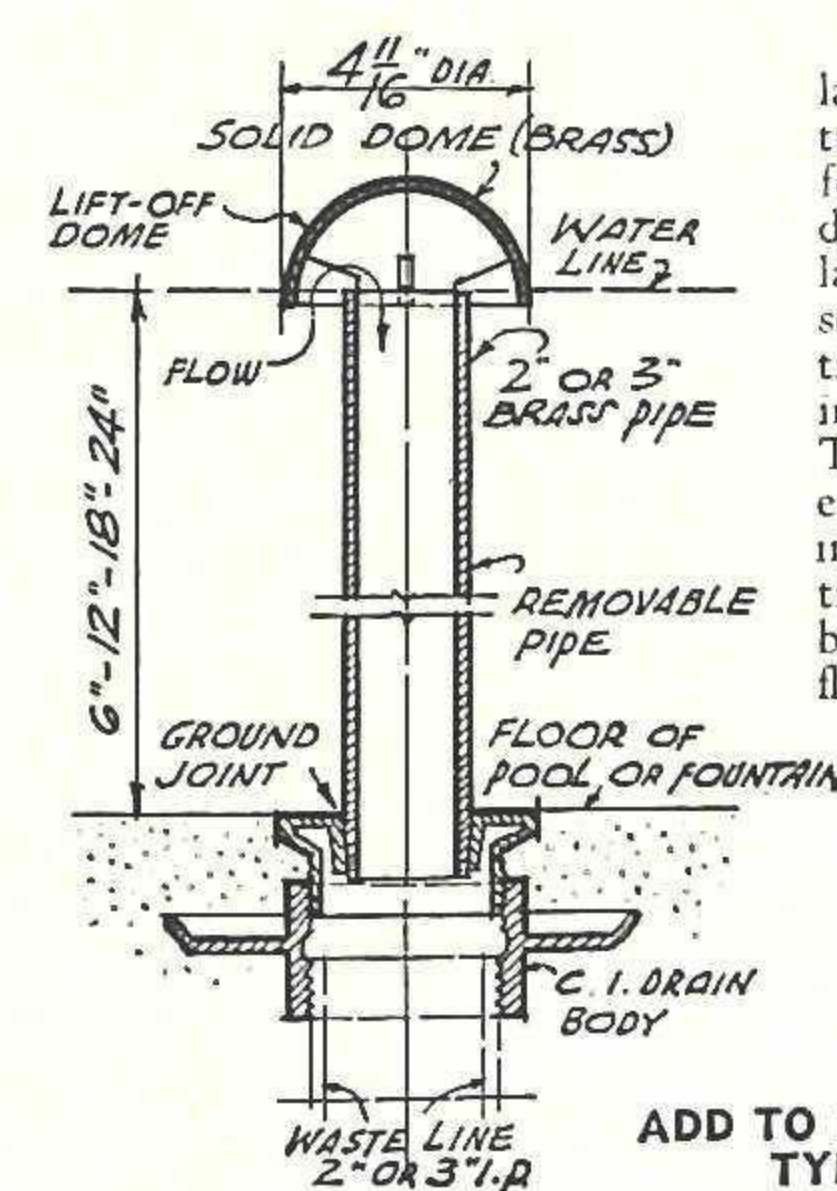
For attaching lane cables during swimming meets, also as guide lines for children and inexperienced swimmers, and as location points for fastening life preservers. The cast integral face plate is adaptable to any kind of pool facing. The 4-in. square face set flush with wall of pool, has a concave depression into which is fitted a 3/8-in. diameter brass bar with sufficient clearance for attaching the clamp of lane cables. The integral square anchor plate with four ribs, placed at 90° intervals, adds proper anchorage in construction and resistance against pull.



LIST PRICE

Weight, lbs.	N. P. or Polished	Chrome Plate
4	\$5.50	\$6.10

JOSAM OVERFLOW CONNECTION



For use in compulsory lanes in swimming pool entry, small wading pools, fountains and wherever it is desired to maintain a circulated body of water at a prescribed water level in addition to quick means of emptying water when so desired. The brass standpipe of whatever height is desired, fits into a ground joint connection in the solid plate of a brass adjustable collar at the floor level of the pool.

Furnished with Josam Series 300, 200A or 2000AC, with nickel-plated or polished brass standpipe, solid dome, and adjustable collar, unless otherwise ordered.

ADD TO LIST PRICE OF SIZE AND TYPE DRAIN DESIRED

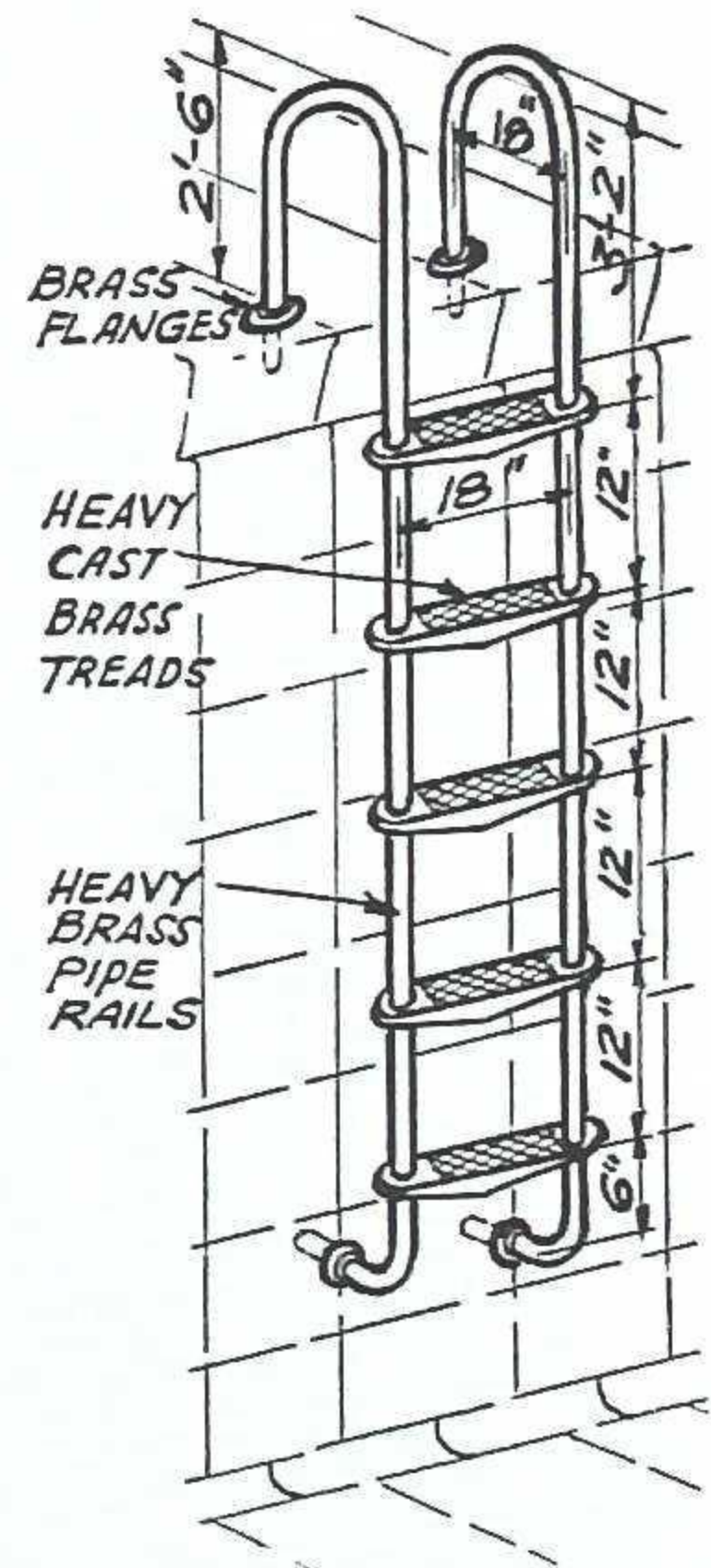
Standpipe		Standpipe, Dome and Adjustable Collar	
Height, in.	Diam., in.	N. P. or Polished	Add for Chrome Plate
6	2	\$ 6.30	\$2.90
12	2	8.10	3.40
18	2	9.80	5.40
24	2	11.70	7.40
6	3	8.10	3.40
12	3	11.70	5.40
18	3	15.30	7.40
24	3	18.90	9.40

JOSAM SWIMMING POOL LADDER

A safe and easy means of entrance or exit from swimming pool. Stationary type, bottom ends returned to wall, ample footing space, non-slip treads, and proper vertical spacing, provide the best possible safety measures. Made of heavy brass rail properly bent to contour, heavy cast brass non-slip treads, brass floor flanges, attractive in appearance and rust-proof.

Furnished in various overall heights, distance between risers, and diameter of rail and bottom tread any height from bottom of pool.

Regularly furnished five-tread with rails and treads polished or dull brass finish, unless otherwise ordered.



DIMENSIONS AND LIST PRICES

O. D. of Rail, in.	Five Step Ladder Complete with rails, 5 steps and floor flanges			For more or less than five steps, add or deduct, Per Step		
	Polished or Dull Brass	Nickel Plated	Chromium Plated	Polished or Dull Brass	Nickel Plated	Chromium Plated
1 1/4	\$ 84.00	\$ 92.40	\$105.00	\$12.00	\$13.20	\$15.00
1 3/8	100.00	110.00	120.00	13.00	14.30	16.25
2	112.00	121.20	140.00	14.00	15.40	17.50



JOSAM-MARSH INTERCEPTORS

Josam-Marsh Interceptors were created because, it is conceded by the plumbing fraternity that grease, oils and fats are the most frequent causes of waste line clogging, and that hair, lint and other small particles form a close second. In many instances, waste lines clogged by the above mentioned foreign matter, must be almost torn up to be properly

cleaned, and in any case, the cleaning operation of waste lines is an annoying and more or less costly operation. All of this can be avoided by the installation in the waste line, of the proper type and size Josam-Marsh Interceptor to best effect the necessary separation of foreign matter and allow only clear waste water to enter waste lines.

Josam-Marsh Interceptors Are Made for Five General Services

- (1) Josam-Marsh Grease Interceptors for the removal of grease and solids from waste water.
- (2) Josam-Marsh Dental and Surgical Sink Interceptors for the removal from waste water of such solids as plaster, metals, cotton, lint, hair, etc.
- (3) Josam-Marsh Hospital Plaster Interceptors, especially designed for hospital sinks where a large volume of Plaster

- of Paris, cotton, lint, hair or other foreign matter is contained in the waste water.
- (4) Josam-Marsh Sediment and Hair Interceptors for the removal of hair and other foreign matter from waste water.
- (5) Josam-Marsh Oil Interceptors, for the removal of oil, gasoline and solids from floor drainage in garages, service stations, manufacturing plants, etc.

JOSAM-MARSH GREASE INTERCEPTORS

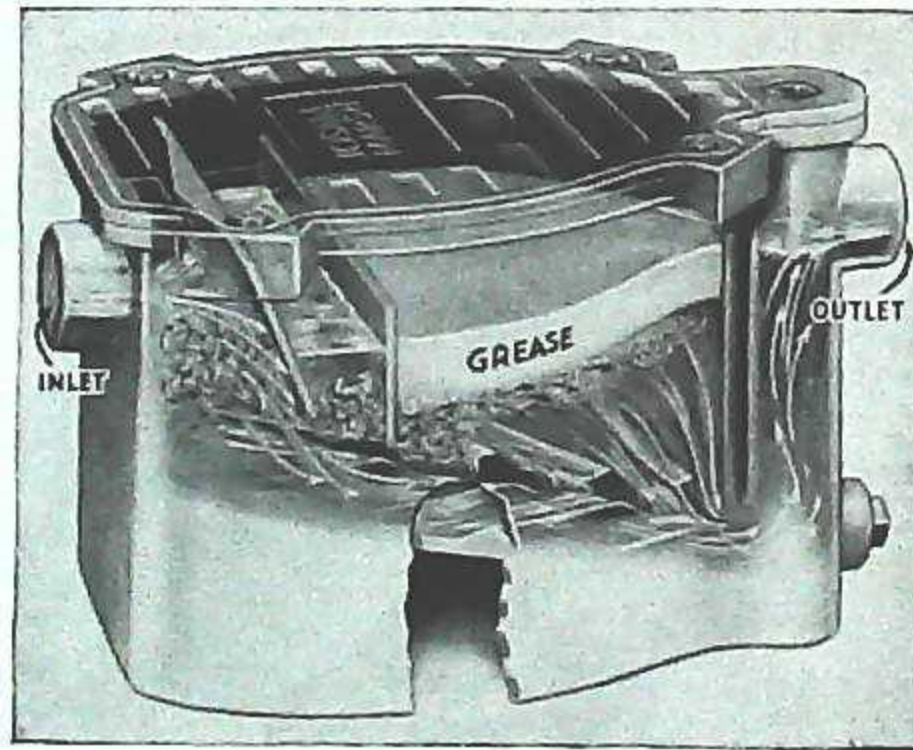
Josam-Marsh Grease Interceptors separate practically all of the grease or effluent from waste waters and also automatically controls and evacuates all sediment. The interception and retention of the grease is effected regardless of the temperature of the waste water—the separation of

sour water remains. Josam-Marsh Grease Interceptors are manufactured in sizes adaptable for all uses from small apartment sinks to entire hotel and restaurant kitchen units. Our experience of many years has demonstrated that it is not necessary to chill waste waters in order to obtain

Intercepts 90% or More Grease From Waste Water

Evacuates Solids

Prevents Foul Odors



Not Water Cooled

Easily Cleaned

Portable

the sediment from the grease and the automatic evacuation of the sediment from the Interceptor prevents disagreeable odors. Fermentation and decomposition is entirely eliminated, thereby leaving clean, odorless grease in the Interceptor.

The Josam-Marsh Grease Interceptor is not water-jacketed and is so constructed that the interception of the grease and the evacuation of sediment is complete without the necessity of water-jacketing. Its patented construction is such that it is the only device that controls the evacuation of solids. The solids are evacuated in ratio to the pull of the outgoing waste water, thereby preventing the device from clogging. It is not constructed to contain a certain volume of water for clarification, but, as its operation is continuous in effect, it clarifies a certain amount of water per hour. Consequently, in view of the fact that the water is in continuous movement through the Interceptor, no

the separation of grease and water. On the contrary, with the Josam-Marsh Grease Interceptor, the hotter the waste water, the higher type of grease is obtained for the reason that the grease is more highly rendered by the heat.

Josam-Marsh Grease Interceptors, therefore, require no cold water connections—have no movable parts—are portable and easily installed to meet any pipe line conditions either above, level with or below the floor. By simply removing the cover, the entire chamber is accessible for the removal of grease which may be easily skimmed off without interrupting the flow through the interceptor.

It cannot be emphasized too strongly that a reasonably clean grease interceptor is necessary in order to get the results for which a grease interceptor is intended.

The Josam-Marsh Grease Interceptor keeps waste lines clean and sanitary, thereby eliminating clogged waste lines and saving the cost of cleaning them.



FEATURES OF THE JOSAM-MARSH GREASE INTERCEPTOR

Practicability—Recovers 90% or more of the grease contained in waste water, irrespective of water temperature.

Sanitation and Installation—It is sanitary because it automatically evacuates all solids. The installation expense is small as no cold water connections are necessary.

Portability—It can be installed anywhere to meet existing pipe line conditions.

Accessibility and Cleanliness—The grease chamber, on raising the cover, is entirely exposed. A minimum effort is required to clean the interceptor.

The Josam-Marsh Grease Interceptor is not constructed to clarify the volume of water which it may contain, but the volume of water passing through it in a certain specified period

Recommended Uses

Type A-O—For small kitchen sinks in residences and kitchenette apartments.

Type A-1—For kitchen sinks in residences, apartments, hotels, diet sinks in hospitals.

Type A-2—For large residence sinks, small electric dishwashers, small combination dish and pot sinks.

Type A-3—For small electric dish washers and large pot sinks.

Type A-5 and A-15—For large dishwashers, batteries of two to four slop or pot sinks, combination of dishwashers, pot sinks and stock kettles, when outlet runs to center point.

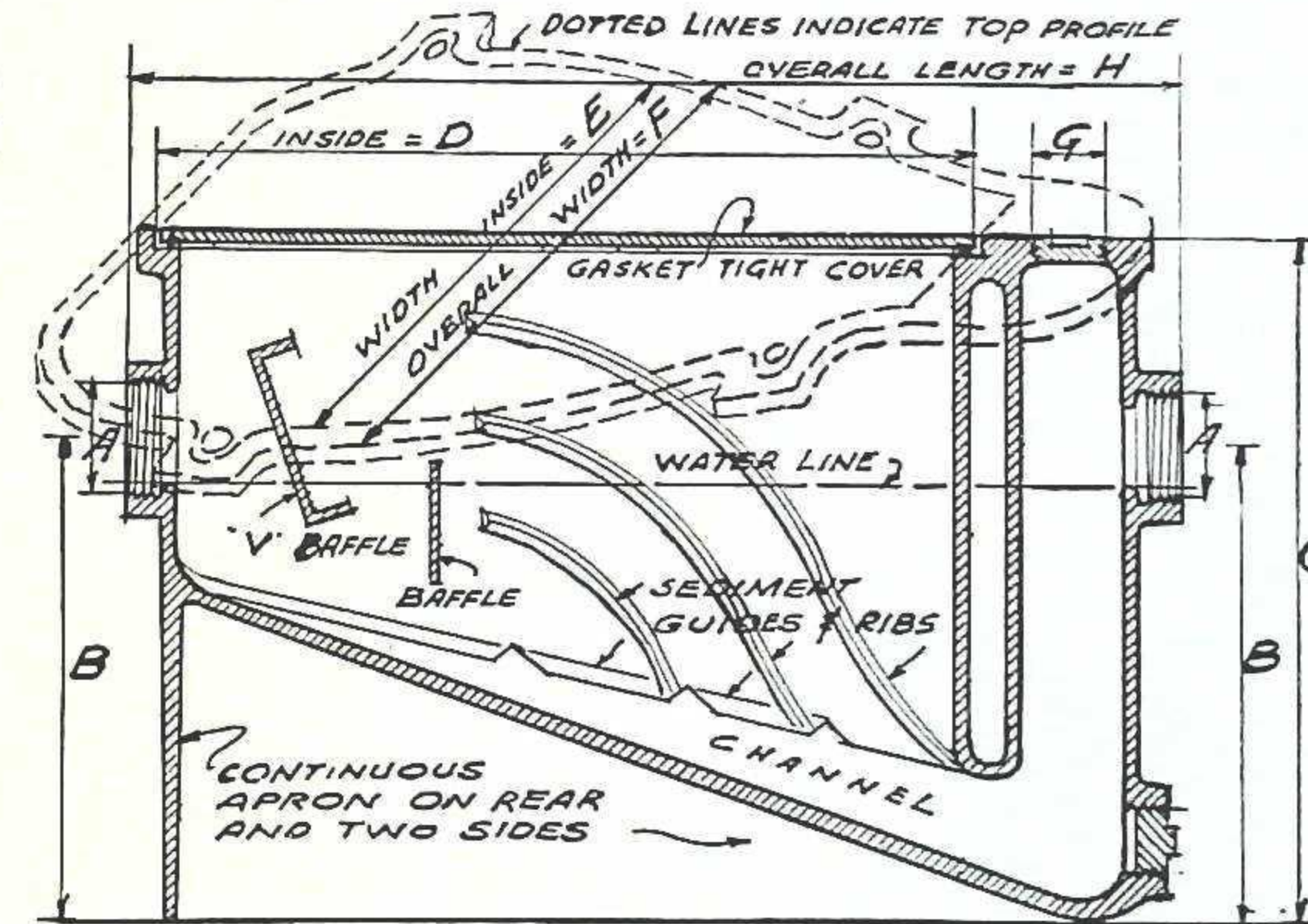
A-25 and A-50—For entire kitchen in hotels, hospitals and large restaurants where one large interceptor is to be used at a centralized point.

A-75 and A-150—For specialized industries where exceptionally large capacities are required.

Design

The shape, baffles, design of bottom and sides, gasket-tight cover, depth of seal, are all essentials in the performance of a grease interceptor, but the water contents for clarifying must be maintained in order to have the definite ratings of a grease interceptor continue in operation.

The full depth apron adds not only to the appearance of the interceptor but affords greater ease in installation. Easier roughing-in dimensions are maintained, and the tiling around the interceptor when it has been placed below the floor level, is accomplished with less effort and the result is a more workman-like installation.



See also table for various sizes made with continuous apron.

Venting

The Josam-Marsh Grease Interceptor, in order to retain its water seal and prevent syphonage, must be vented in the same way and with the same size vent as required by ordinance or otherwise, for the venting of traps in any locality.

General Construction

Heavy cast iron body painted white enamel interior and exterior, gasket tight cover, threaded brass cleanout, cast iron painted white enamel baffles, inlet and outlet as shown in table, unless otherwise ordered.

DIMENSIONS AND LIST PRICES

Size		Flow Gallons Per Hour	Fat Capacity, lbs.	Dimensions in Inches								Weight, lbs.	Pipe Connection	Price
Visible Double Wall Seal	Internal Seal			A	B	C	D	E	F	G	H			
WITH APRON SUPPORT														
A-0	.....	250	15	1½-2	7¾	10½	13¼	9¾	11¼	1	16¼	52	Tap	\$ 25.00
A-1	A-1½	500	25	2	9¾	12¼	16½	11¾	13½	1¼	19¾	72	Tap	46.00
A-2	A-2½	950	50	2-3	12¼	19	22	16	18¼	1½	27	185	Tap	97.00
A-3	A-3½	1,500	100	3-4	18½	23½	27¼	19¼	21¾	2	32½	360	Tap	156.00
A-5	A-5½	2,500	150	4-5	20½	27¾	29¾	22¾	25¼	2	38¾	539	Tap	275.00
WITH LEG SUPPORT														
A-15	.....	3,500	200	4-5	24½	33½	37	27¼	29½	2	46½	710	Tap	420.00
.....	A-25½	4,000	250	6	23	32¾	42¼	30¼	32¾	2½	57¼	825	Caulk	470.00
.....	A-50½	9,000	400	7	30½	40	45¾	39¾	41¾	3	55¾	1,650	Caulk	730.00
.....	A-75½	15,000	800	7	36	48	69½	52	54	3	84½	3,500	Sewer Pipe	1,254.00
.....	A-150½	30,000	1,500	8	42½	54½	102½	71	73	10	110¾	6,500	Flanged	2,288.00



JOSAM CAS-CADE GREASE INTERCEPTOR
An Efficient Grease Interceptor for Moderate Requirements—Not Water-Cooled
SERIES J-10

The Josam Cas-cade Grease Interceptor meets requirements for sinks in kitchens of moderate sized dwellings, apartments and any other sinks having minimum requirements. The principle of the Josam Cas-cade Grease Interceptor embodies a new design which makes this small size grease interceptor efficient and practical.

The Josam Cas-cade recovers practically all of the grease from waste waters, and inasmuch as the sediment is con-

tinually evacuated, there is no sediment to decompose or ferment and no foul odors resulting.

Grease chamber is easily accessible for cleaning by simply removing the gasket-tight cover which is held firmly in place by four brass wing nuts on steel studs.

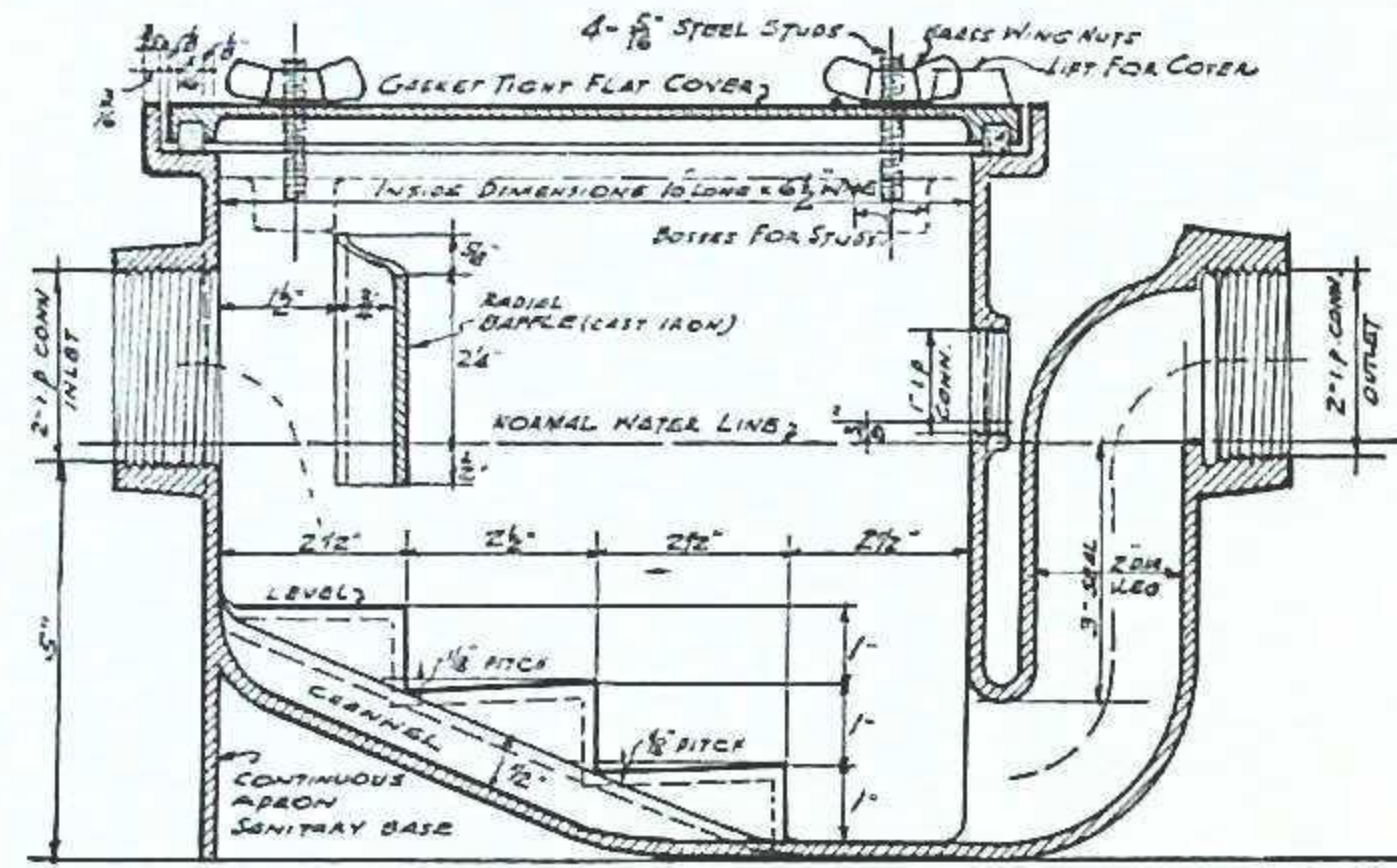
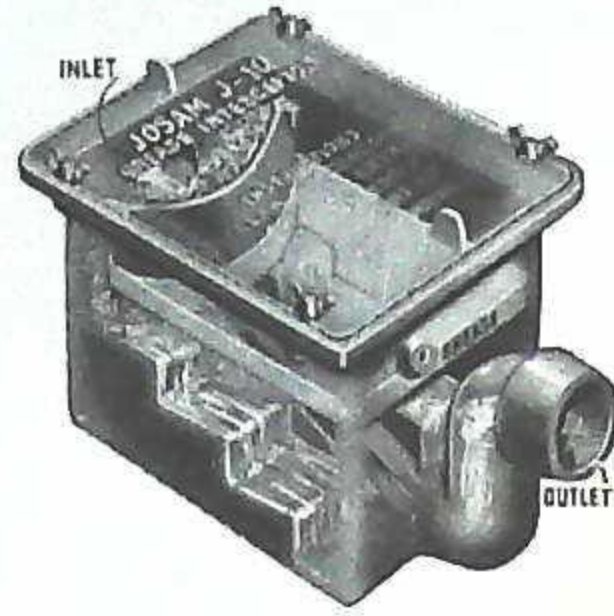
Full apron design and the white enamel exterior and interior, make this interceptor attractive in appearance and in harmony with practically all kitchen equipment.

General Construction

Heavy cast iron body, white enamel exterior and interior, gasket tight cover, female threaded inlet and outlet, unless otherwise ordered.

DIMENSIONS AND LIST PRICES

Type	Size, in.	Length, in.	Width, in.	Height, in.	Weight, lb.	List Price
J-10A	1½	15	12	10	40	\$15.00
J-10B	2	15	12	10	40	15.00



JOSAM-MARSH OIL INTERCEPTOR

With Adjustable Automatic Double Eccentric Gravity Flow Oil Draw-off Prevents Entry of Oil and Gasoline into Waste Lines

The Josam-Marsh Oil Interceptor is designed to efficiently intercept foreign matters, such as oils, gasoline, naphtha and other liquids which generate explosive vapors, contaminate water and which should be prevented from entering waste lines.

The Josam-Marsh Oil Interceptor is provided with definite means of automatically drawing off oils, gasoline, naphtha, etc., which have accumulated in the drainage of buildings housing a garage, wash rack, service or filling station, clean-

ing or dyeing establishment, manufacturing plant or building where oil or gas is used which eventually become part of drainage entering sewer lines.

The intercepted oil does not stay in interceptor, but is discharged through automatic draw-off, into a container set at a convenient location adjacent to interceptor. Due to eccentric design of draw off, it can be adjusted to meet specific requirements of each installation.

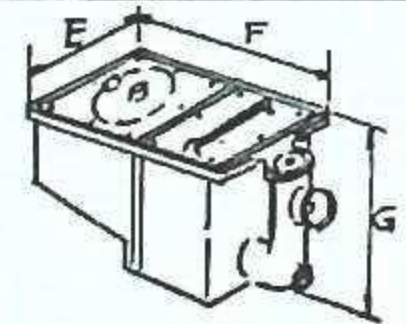
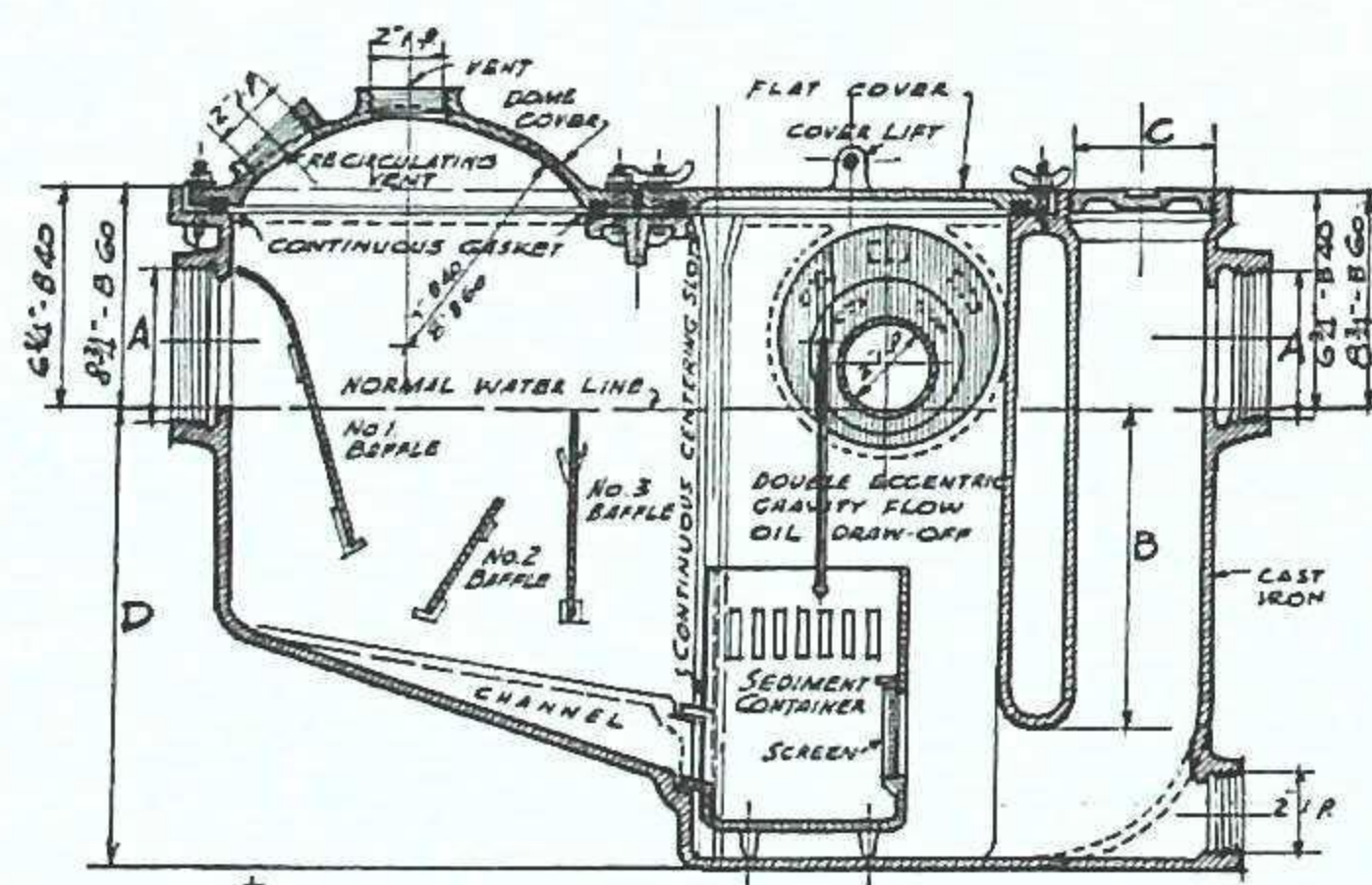
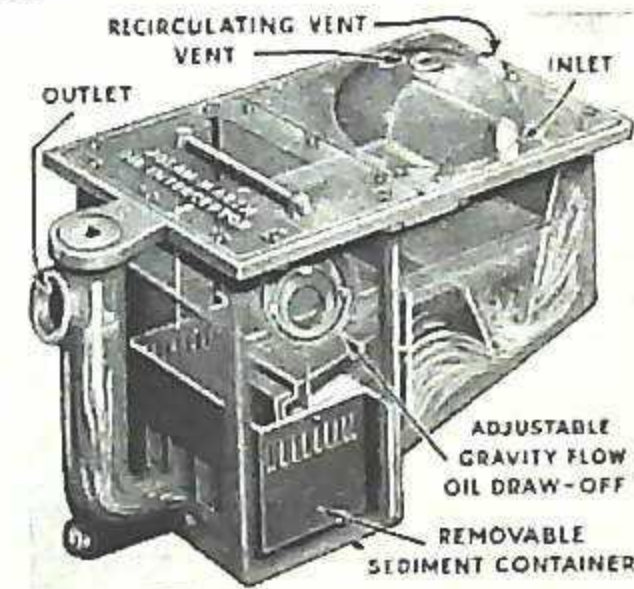
Sediment container is easily removed for cleaning by removing the flat gasket-tight cover over that portion of the interceptor. The dome cover, over the inlet end, has a vent and recirculating vent for the discharge of the generated fumes from the oil and gas, providing positive air relief within the interceptor.

General Construction

Heavy cast iron body, gasket tight cover, removable sediment container, brass adjustable automatic gravity flow oil-draw-off, 2-in. female threaded vent and recirculating vent, female threaded inlet and outlet, unless otherwise ordered.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches							Cast Iron		
	A Inlet and Outlet	B Seal	C Cleanout	D	E Width	F Length	G Height	Weight, lbs.	Jap'd.	Galv.
B-42	2	9½	4	14	18	32	21	185	\$162.00	\$198.00
B-43	3	9½	4	14	18	32	21	185	162.00	198.00
B-44	4	9½	4	14	18	32	21	185	162.00	198.00
B-64	4	14½	6	21	24	42	30	325	320.00	396.00
B-65	5	14½	6	21	24	42	30	325	320.00	396.00
B-66	6	14½	6	21	24	42	30	325	320.00	396.00

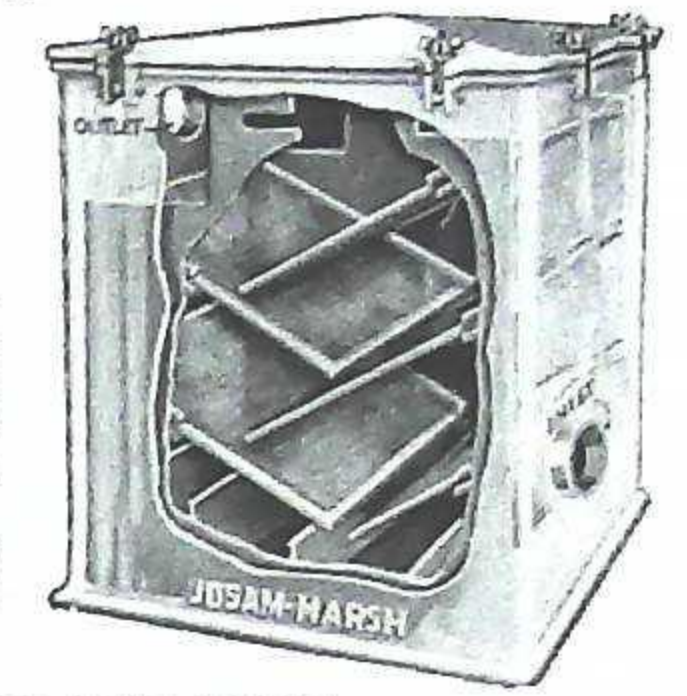


JOSAM-MARSH HOSPITAL PLASTER INTERCEPTOR
For Hospital Plaster Sinks

TYPE C-1

General Construction

Heavy grey cast iron body with white porcelain enamel exterior, chromium plated clamps, cage is heavy galvanized material, brass screens, female threaded inlet and outlet. Seal 7½ in.



DIMENSIONS AND LIST PRICE

Type	Dimensions in Inches				Weight, lbs.	List Price
	Inlet	Outlet	Top	Height		
C-1	2	2	14 x 14	16	240	\$140.00

For the removal from waste water of all Plaster of Paris, either solid or in a state of suspension, cotton, lint, hair or any other foreign matter which the waste water may contain.

The water enters through the inlet pipe, is baffled and carried over the vertical plates and then passes through the fine mesh screens where the process of filtration takes place.

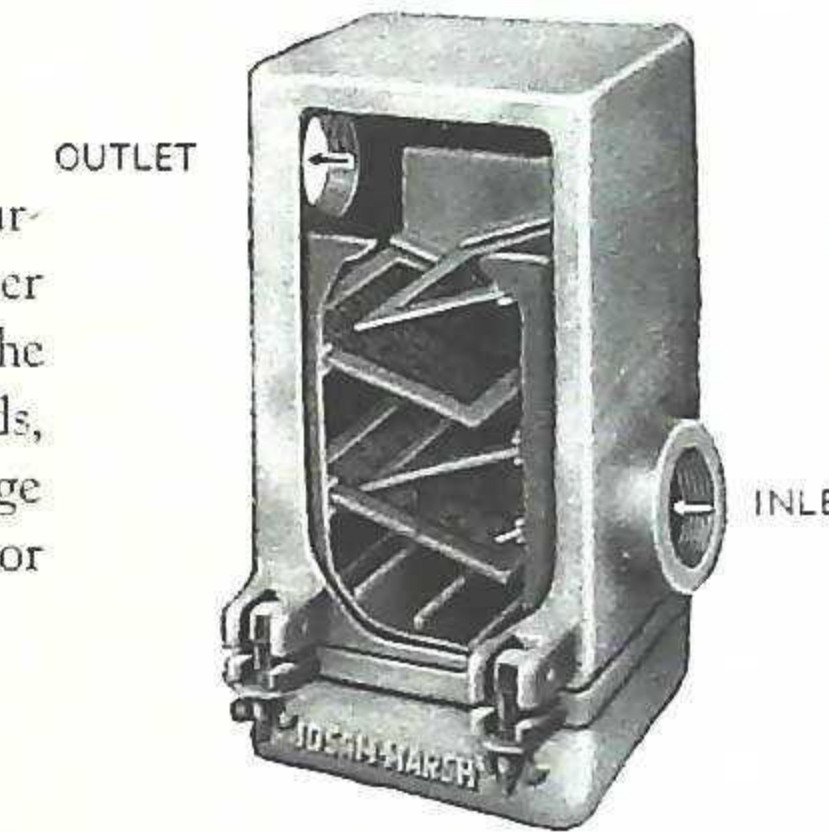
The Interceptor is absolutely non-siphoning and easily accessible for cleaning as the cage and screens can be readily removed without any disconnecting.

JOSAM-MARSH DENTAL AND SURGICAL SINK INTERCEPTOR

TYPE C-2

General Construction

Polished aluminum body, aluminum cage, brass screens, female threaded inlet and outlet. Seal 3½ in.



DIMENSIONS AND LIST PRICE

Type	Dimensions in Inches				Wt., lbs.	List Price
	Inlet	Outlet	Top	Ht.		
C-2	1½	1½	5 x 5	10½	8	\$42.00

For use in connection with Dental, Surgical and Operating Room Sinks, Barber Shops and Beauty Parlor Sinks, for the removal from waste water of all solids, plaster, metals, cotton, lint, hair, etc. Cage is easily removed for cleaning. Interceptor is absolutely non-siphoning.

JOSAM-MARSH SEDIMENT AND HAIR INTERCEPTORS

For use in connection with lavatories in barber shops, beauty parlors, residences, hotels, hospitals, and wherever waste waters contain hair and foreign matter which should

be prevented from entering waste lines. Removable plug on bottom permits ready access to brass filter screen. Absolutely non-siphoning.

With Visible Double Wall Seal
TYPE D-4

Permitted in All Localities

With Internal Wall Seal
TYPE D-3

Permitted in Certain Localities

General Construction

Cast brass nickel plated body, brass removable screen, brass cleanout plug, 2 in. seal, female threaded outlet and inlet tapped for 1¼ in. O.D. brass tubing, unless otherwise ordered. Inlet also furnished for 1½ in. O.D. brass tubing when so ordered.

DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches				Weight, lbs.	Nickel Plate	Chrome Plate
	Inlet	Outlet	Top Dia.	Height			
D-4	1¼	1½	3¾	6½	6	\$16.00	\$20.00
D-4A	1½	1½	3¾	6½	6	16.00	20.00
D-3	1¼	1½	3¾	6½	6	16.00	20.00
D-3A	1½	1½	3¾	6½	6	16.00	20.00



Type D-4



Type D-3



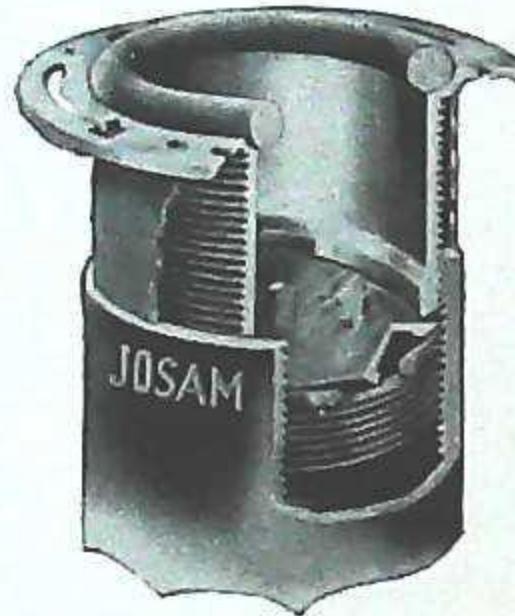
JOSAM ADJUSTABLE CLOSET OUTLET CONNECTIONS

Water-tight and Gas-tight—Adjustable—Permanent—Sanitary—Eliminate Plastic Joints

"A Much Needed Improvement"

Josam Adjustable Closet Outlet Connections provide all necessary facilities for properly installing water closets and insuring a permanent, water-tight and gas-tight seal by means of approved asbestos gaskets, eliminating the use of plastic materials.

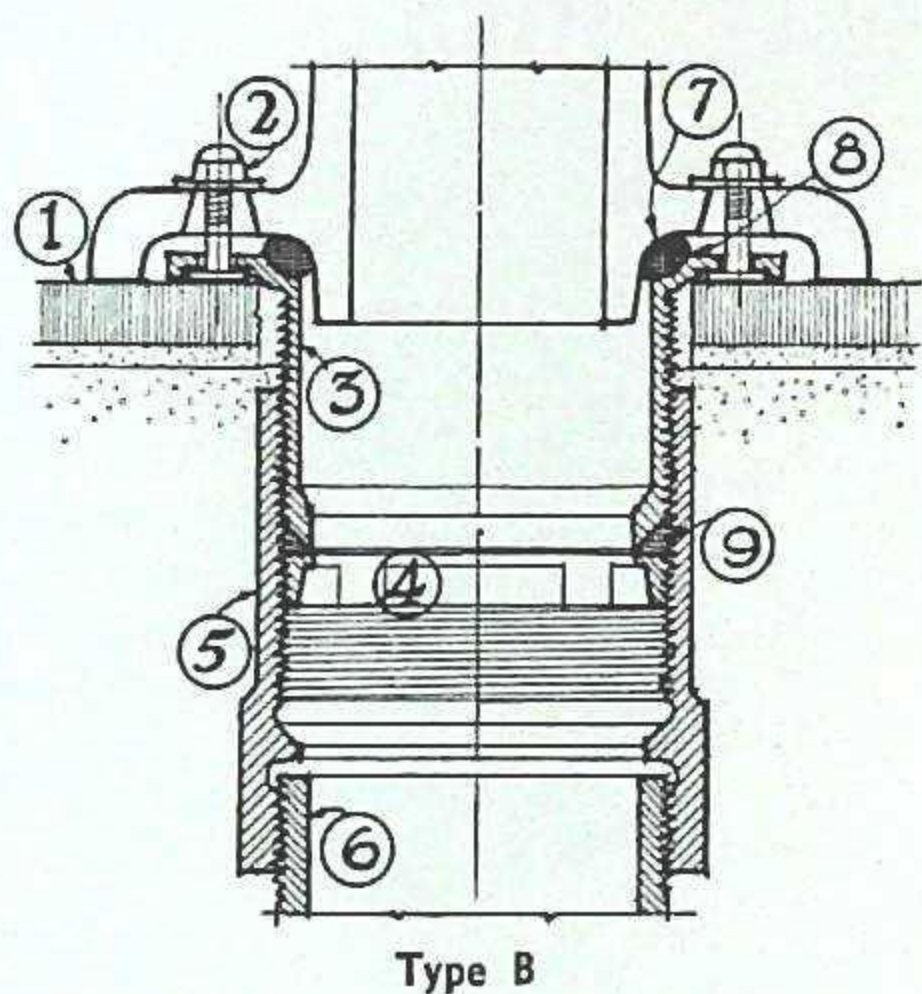
The detail below illustrates Josam Adjustable Closet Outlet Connection installed in floor construction and tightly sealed with fixture



outlet by 1/2-in. asbestos gasket. The brass floor flange has been readjusted to the exact point permitting fixture to rest firmly upon floor when gasket is fully compressed, without strains on piping. Test plate has been removed and locking ring readjusted in position to fully compress the 1/4-in. asbestos gasket and tightly seal the adjustable threaded joint. Can be sealed at any adjusted position.

FITS ALL MAKES OF WATER CLOSET BOWLS AND PEDESTAL URINALS WITH STANDARD FLOOR OUTLET

- 1 Floor construction bonded with connection
- 2 1/8-in. extra heavy brass bolts
- 3 Extra heavy brass floor flange. Adjustable, threaded. Permanent. Compensates for variations and irregularities in construction
- 4 Brass adjustable locking ring supports gasket and securely locks floor flange in any adjusted position. Readily adjusted by finger grips
- 5 Extra heavy cast iron japanned body same weight as extra heavy soil pipe
- 6 Waste pipe (not furnished)



- 7 1/2-in. braided asbestos graphite gasket remains flexible and lasts indefinitely. Gas-tight and water-tight seal always maintained
 - 8 Gasket fully supported by wide and deep seat
 - 9 1/4-in. braided asbestos graphite gasket remains flexible and lasts indefinitely. Beveled seat expands gasket, tightly sealing adjustable threaded joint in any adjusted position. Seal withstands water test beforehand
- Fixture may be readily removed and re-installed

General Construction

Cast iron japanned body, asbestos graphite gaskets, brass adjustable floor flange, 1/8-in. extra heavy brass bolts, brass adjustable locking ring, cast iron test plate, metal top shield, metal thread shield, unless otherwise ordered.

Special or longer bodies, side inlets or vents, furnished when so ordered.

Instructions for Installation

Connection completely assembled at factory, with test plate in proper position for Plumbing Inspector's test.

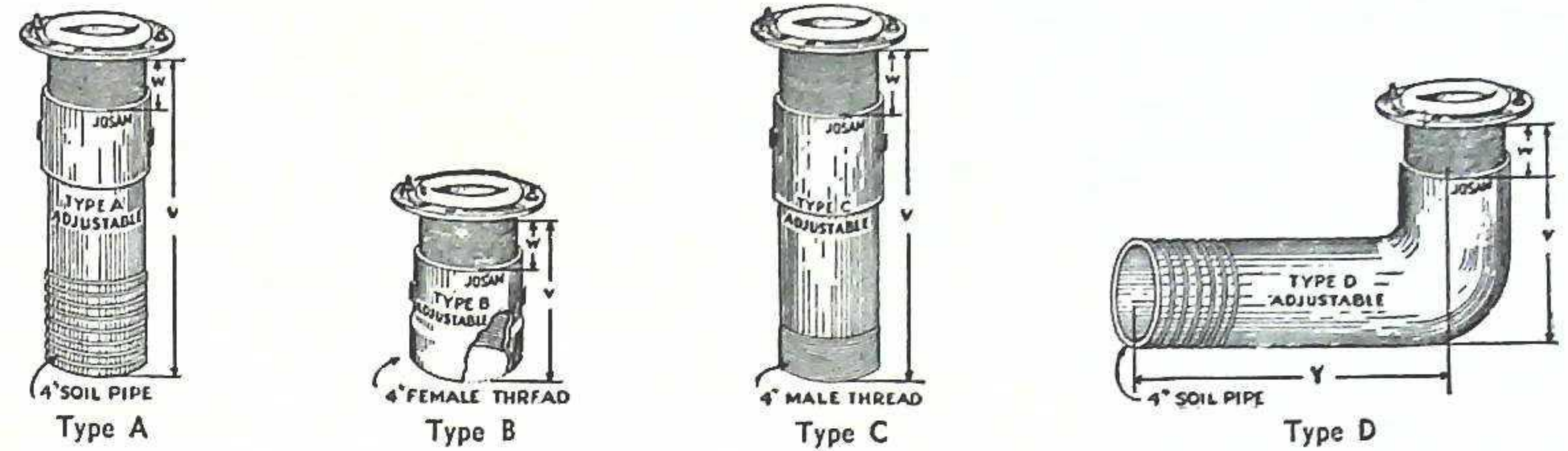
ARCHITECTS AND ENGINEERS SUGGESTED SPECIFICATION

All Water Closets (and Pedestal Urinals) as shown on plans, shall be connected to and tightly sealed with waste piping by means of JOSAM ADJUSTABLE CLOSET OUTLET CONNECTIONS, complete as regularly furnished by manufacturer. Floor flanges and locking rings must be properly adjusted in position to provide water-tight and gas-tight seals both at fixture outlets and at adjustable threaded

joints, by means of asbestos graphite gaskets, furnished by manufacturer. Sealing of such joints with putty or other plastic materials of any kind, will not be permitted. Fixtures must rest firmly upon floors without strain upon piping when gasket is fully compressed. Connections shall not be dismantled, or any parts thereof removed until fixtures are being installed.



JOSAM ADJUSTABLE CLOSET OUTLET CONNECTIONS (Continued)



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches			Cast Iron	Type	Dimensions in Inches			Cast Iron	
	W Adjustment	V				W Adjustment	V			Y
		Min.	Max.			Min.	Max.			
A-12*	2	12	14	\$6.40	C- 6 1/2	3	6 1/2	9 1/2	\$5.60	
A-18*	2	18	20	7.00	C- 8	3	8	11	5.80	
A-24*	2	24	26	8.00	C-10*	3	10	13	6.20	
A-30*	2	30	32	9.50	C-12*	3	12	15	6.60	
A- 6	1	6	7	6.40	C-14*	3	14	17	7.00	
A- 6 1/2	1 1/2	6 1/2	8	6.40	C-16*	3	16	19	7.40	
A- 7	2	7	9	6.40	C-18*	3	18	21	7.60	
					C-20*	3	20	23	7.80	
					C-22*	3	22	25	8.20	
B- 6	2	6	8	5.60	D-12x7 1/2*	1 1/2	7 1/2	9	12	7.40
B- 5	1	5	6	5.60	D-18x7 1/2*	1 1/2	7 1/2	9	18	8.20
B- 5 1/2	1 1/2	5 1/2	7	5.60	D-24x7 1/2*	1 1/2	7 1/2	9	24	9.00
					D-12x7*	1	7	8	12	7.20
C- 4 1/2	1	4 1/2	5 1/2	5.20	D-18x7*	1	7	8	18	8.00
C- 5	1 1/2	5	6 1/2	5.30	D-24x7*	1	7	8	24	8.80
C- 5 1/2	2	5 1/2	7 1/2	5.40						

*Indicates types furnished with side inlets or vents in 45° or 90° pattern, when so ordered, 50¢ each, additional list. Inlets for Type D furnished on R.H., L.H., or R. and L. sides. Specify type, size, location and number of inlets, when ordering. For Types A, C and D in lengths other than shown, prices on application.

COMPARISON

Non-Adjustable Closet Outlet Connection and Josam Adjustable Closet Outlet Connections

Non-adjustable closet outlet connections do not provide necessary means for installing water closets efficiently and in sanitary method.

"G" illustrates unusual cases where miscalculation or raising of floor levels may result in waste pipe being located entirely too low to even retain sealing material in the joint.

Difficulties occur because piping is usually installed be-

fore floors are laid and estimated locations of piping are naturally upset by unavoidable variations in floor construction, fixture outlets and pipe threads. Such variation frequently prohibit use of gaskets alone, and have compelled use of putty or plastic materials for sealing trap outlets of water closets, thus resulting in not only water leakage, but also direct entry of sewer gas into building.

Composite drawing illustrates non-adjustable closet outlet connection, caulked and threaded types, installed in floor construction, showing average conditions and moderate variations between estimated and actual finished floor levels.

- A Estimated finished floor levels, subject to usual construction variations
- B Actual finished floor levels, higher than estimated—a frequent occurrence
- C Gasket seat or end of waste pipe, too low to compress gasket
- D Gasket space, too large and usually filled with putty or other plastic material

- E Gasket, too small to fill space
- F Floor construction, usually not bonded with connection to permit installation of floor flange after floor finish is laid
- G Alternate: Showing end of waste pipe below horn of fixture, providing no seat to retain sealing material in joint



JOSAM-MARSH SHOCK ABSORBER

Subdues Water Hammer—Relieves Strain—Prevents Breaks—Not an Air Chamber

Josam-Marsh Shock Absorbers quiet water hammer and absorb thrust and vibration in water supply lines. It will accomplish permanently, without recharging with air, re-washing, adjusting or servicing, all that several air chambers of any type will do, in addition to fulfilling its own duty of Pipe Insurance.



damped out, permitting no reflex waves to pass back through the orifice and so on back into the pipe.

Recommended Uses

For quieting water hammer in pipe lines, relieving strain and preventing damage to piping systems by absorbing and dispelling shocks arising from quick closing valves—faucets—closet flush valves—house pumps and appliances—also for water pumping systems—sewage ejectors—closets in battery—water heaters—drinking fountains—self-closing hydrants—laundries—auto wash—overland oil lines—liquid pipe lines of any kind—automatic dish washers—swimming pool circulating pumps and concrete mixing machines. For special applications and conditions, consult our Engineering Department, 1783 East 11th Street, Cleveland, Ohio.

Description

The component parts of the Josam-Marsh Shock Absorber completely and comprehensively described in the illustration below, indicate the completion of extensive research and practical tests which have revolutionized obsolete methods of trying to quiet water hammer and insure permanency of plumbing water supply systems. Regularly tested to stand water pressure of 125 lbs. Furnished for higher pressures when so ordered.

Function

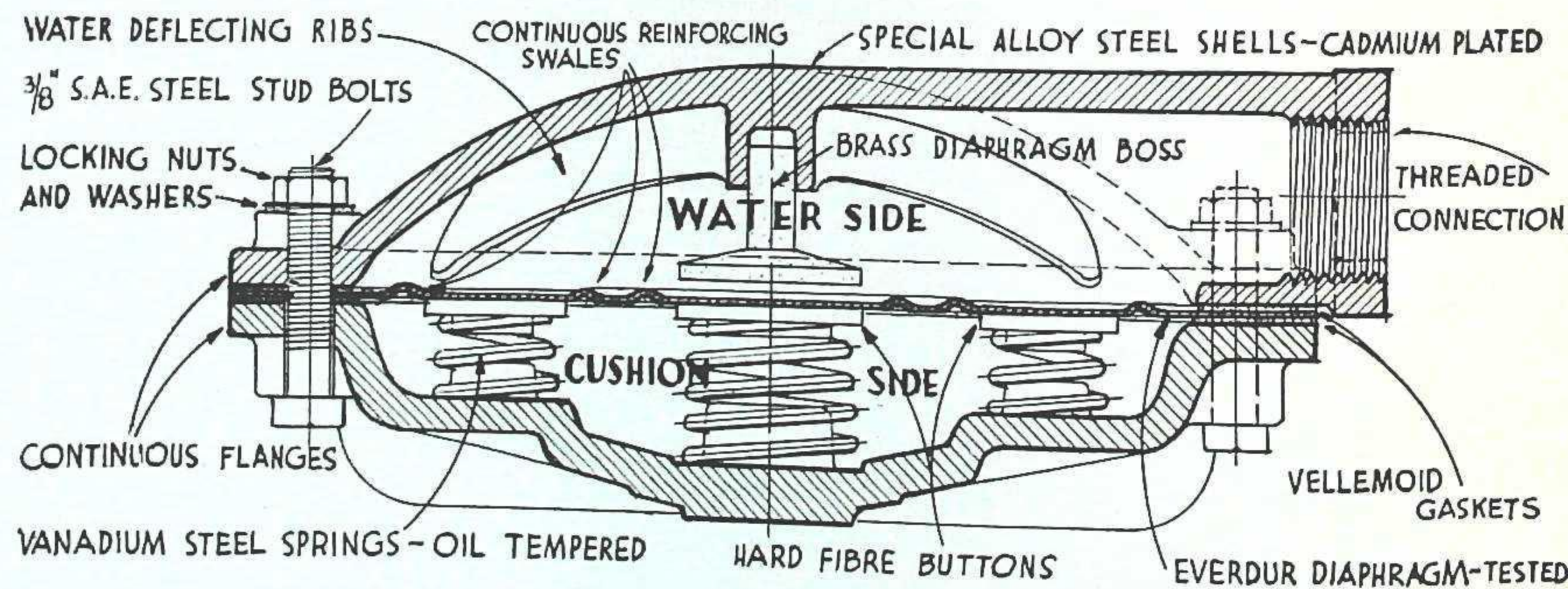
The function of the Josam-Marsh Shock Absorber is to receive the thrust of a rapidly moving body of liquid in a pipe when the flow therein is stopped short, due to the sudden shutting off of an outlet on a branch. The head or pressure in the line is of no serious consequence.

Operation

First: The thrust or impact enters the chamber and is widely spread.

Second: The water on striking the walls of the chamber, cause waves of density which bound and rebound between the walls and the diaphragm, the latter vibrating and constantly changing the angle of impact and rebound so that the waves, instead of generating in a regularly recurring orderly procession, generate at irregular intervals and in all directions.

Third: These waves cross and recross each other until



DIMENSIONS AND LIST PRICES

Type	Dimensions in Inches					Weight, lbs.	List Price
	Size	Diameter	Thickness	Top to Center of Connection	Bottom to Center of Connection		
M- 1/2	1/2	7 1/2	3 1/4	7/8	2 3/8	9	\$ 9 80
M- 3/4	3/4	7 1/2	3 1/4	7/8	2 3/8	9	
M-1	1	9	3 1/2	1	2 1/2	14	16.50
M-1 1/2	1 1/2	11 1/2	4 3/4	1 1/4	3 1/2	27	29.75
M-2	2	14 1/2	5 1/4	1 1/2	3 3/4	34	35.00



JOSAM TAPPED BRASS CLEANOUT PLUGS With Cast Brass Wall Plates and Screws

SERIES 3

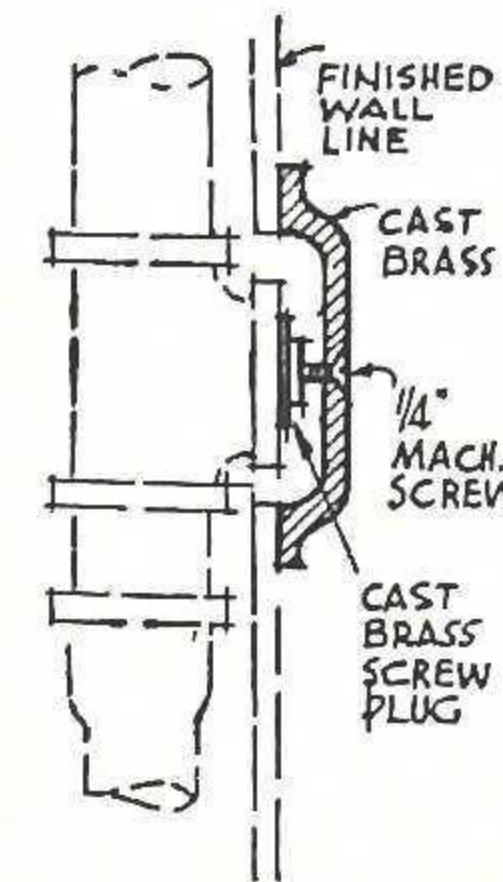
Conforms to U. S. Govt. Specifications WW-P-541, E-10n, Fig. 71 No. 448, Fig. 1, Detail 4

LIST PRICES

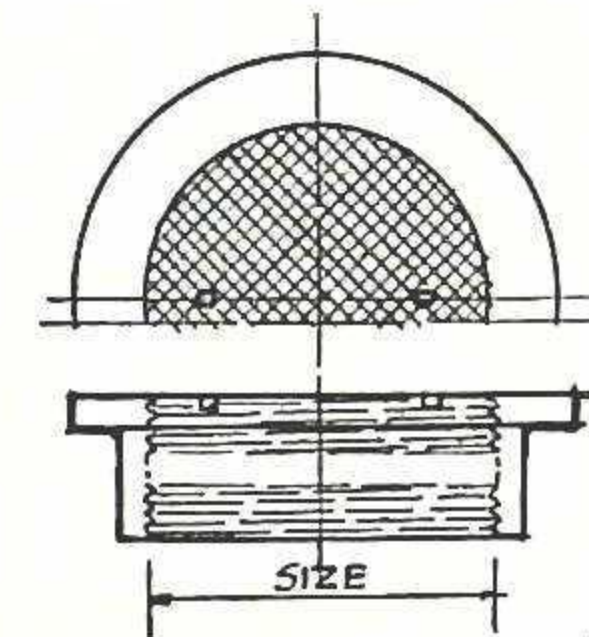
Size, in.	Polished or N. P.	Chrome Plate	White Metal Polished	White Metal Chrome Plate
1 1/2	\$2.40	\$2.70	\$3.60	\$3.90
2	2.60	3.00	3.90	4.30
3	3.60	4.10	5.40	5.90
4	5.50	6.10	8.20	8.80
5	7.60	8.40	11.40	12.20
6	8.60	9.60	12.90	13.90

Plates and Screws Only

Size, in.	Polished	Chrome Plate	White Metal Polished	White Metal Chrome Plate
1 1/2	\$2.16	\$2.46	\$3.24	\$3.54
2	2.36	2.76	3.50	3.90
3	2.96	3.46	4.44	4.94
4	4.58	5.18	6.82	7.42
5	6.40	7.20	10.20	10.80
6	7.20	8.20	11.30	12.30



JOSAM DECK PLUGS SERIES 5



Heavy Cast Brass—Threaded—Scoriated Screw Plug with Holes for Spanner Wrench

LIST PRICES

Size, in.	Mach. Fin.	Polished	N.P.	C.P.
1 1/4	\$ 3.80	\$ 4.50	\$ 4.70	\$ 5.00
1 1/2	4.00	4.80	5.00	5.20
2	4.40	5.30	5.50	5.70
3	5.00	6.00	6.30	6.50
4	6.50	7.80	8.10	8.50
5	11.50	13.80	14.40	15.00
6	14.00	16.80	17.50	18.20
8	25.00	30.00	31.20	32.50

JOSAM CLEANOUTS FOR CAST IRON PIPE SERIES 8

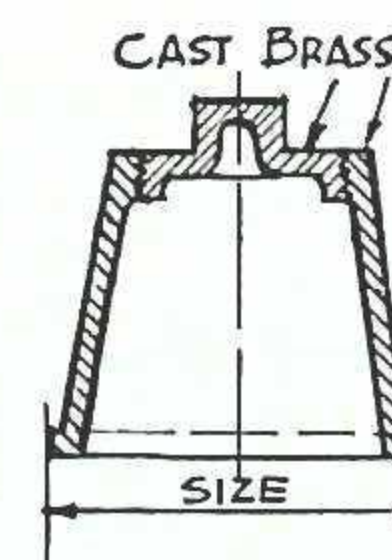
Conforms to U. S. Govt. Specification No. 448, Fig. 2, Detail 5

Bodies and Covers heavy cast brass. Covers furnished raised nut, countersunk, plug or flanged at same price.

LIST PRICES

Size, in.	Height of Body, in.	Rough Cover	Polished Cover
2	3	\$.90	\$ 1.10
3	3 5/8	1.40	1.70
4	4	2.20	2.60
5	4	4.10	4.70
6	4	5.80	6.60
8	4	12.00	13.10
10	4	23.40	26.40
12	4	29.50	33.50

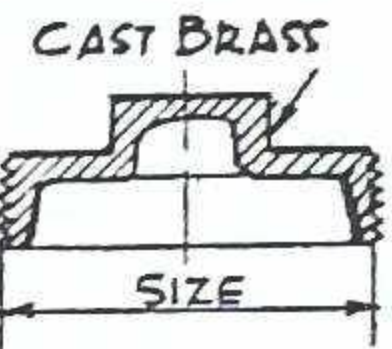
Furnished with N. P. or C. P. covers at extra cost.



JOSAM BRASS CLEANOUT PLUGS

SERIES 10

Size, in.	List Prices
1 1/2	\$ 0.30
2	.36
3	.84
4	1.20
5	2.00
6	2.40
8	4.80
10	7.50
12	10.60

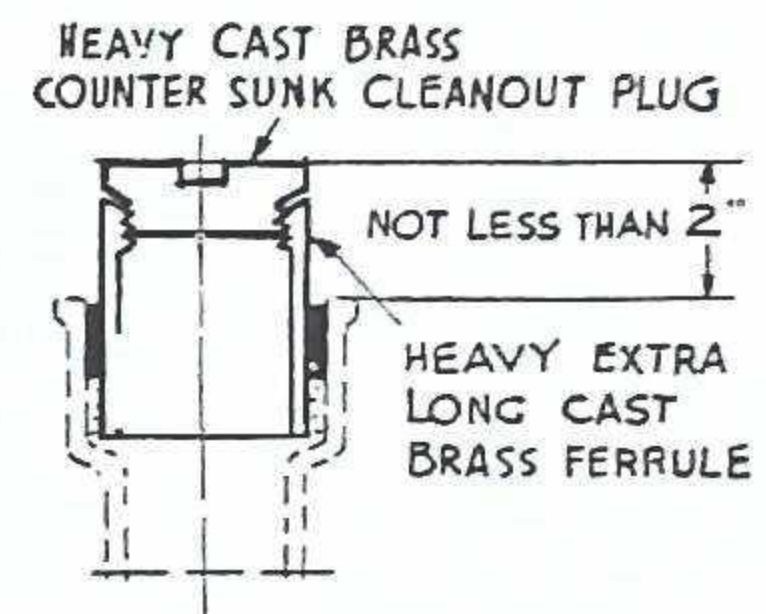


Furnished countersunk—add 15%.

JOSAM EXTRA LONG CLEANOUTS FOR CAST IRON PIPE

SERIES 16

To Project at Least 2 in. above Soil Pipe Hub



Bodies and covers heavy cast brass. Covers furnished raised nut, countersunk, plug or flanged, at same price.

SPECIAL EXTRA LONG BODIES

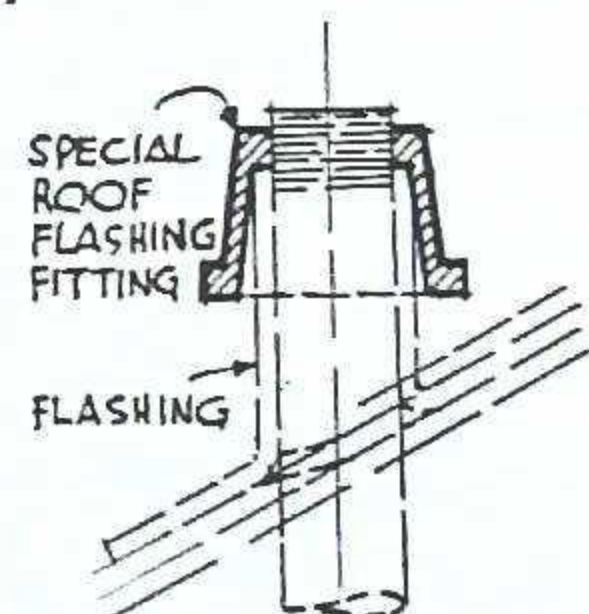
Size, in.	List Prices	Size, in.	List Prices
2	\$1.34	6	\$ 6.50
3	1.98	8	16.50
4	2.72	10	28.00
5	5.60	12	36.00

Furnished with Pol. N. P. or C. P. covers at extra cost.

JOSAM ROOF FLASHING FITTINGS

SERIES 7

Conforms to U. S. Govt. Specification No. 448, Fig. 1, Detail 5



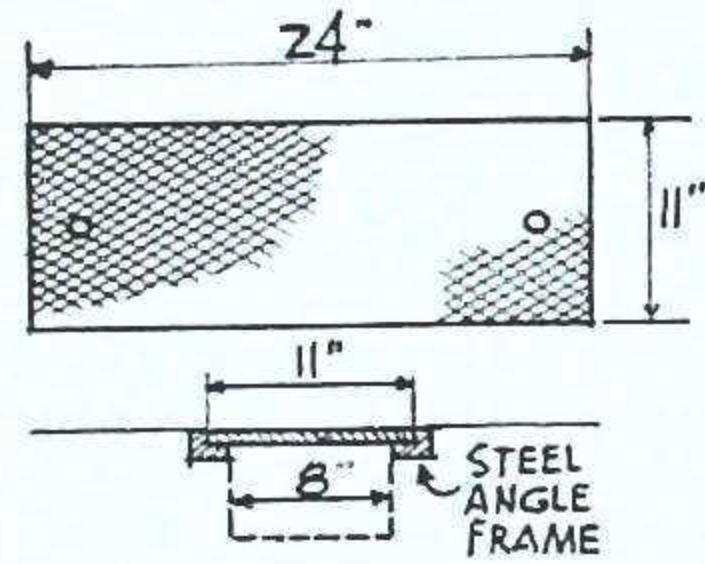
LIST PRICES

Fitting only	C. I.	Galv.	Brass
Size, in.			
1 1/4, 1 1/2, 2	\$0.50	\$0.70	\$1.50
3	.80	1.20	2.40
4	1.20	1.60	3.60
5	1.70	2.30	5.10
6	2.60	4.40	7.80



JOSAM TRENCH PLATES

SERIES 11



Cast iron plates. Cast iron (L) frame drilled for anchor bolts. For covering 8-in. wide pipe trench. Made in 24-in. lengths.

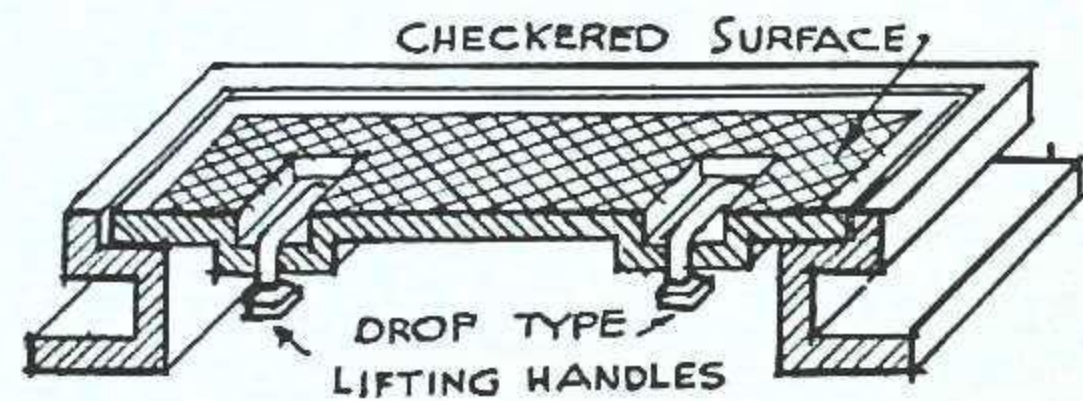
LIST PRICES

Cast Iron Plate, per foot.....	\$2.00
C. I. Frame, per foot.....	.80
Anchor Bolts, each.....	.20

JOSAM MANHOLE FRAMES AND COVERS

SERIES 13

Conforms to U. S. Govt. Specification No. 448, Fig. 2, Detail 5



Heavy cast iron frame and cover.

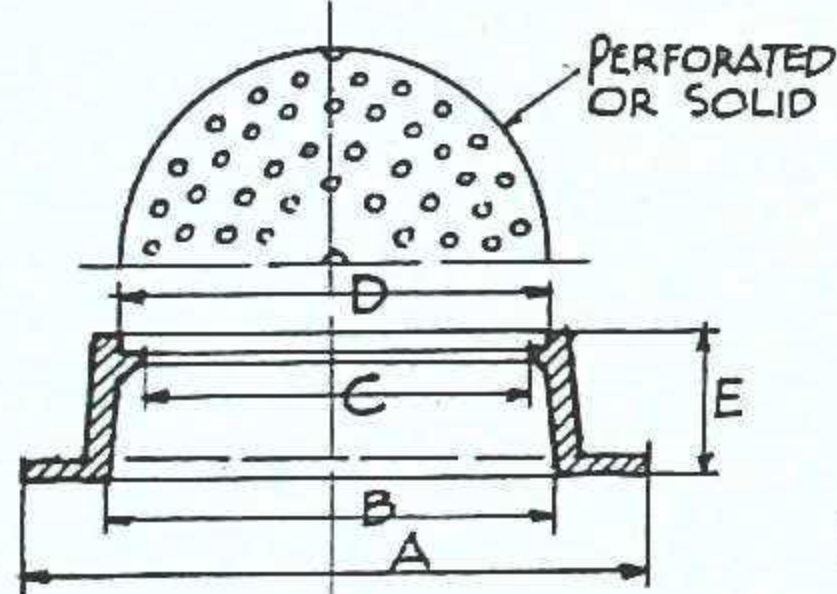
LIST PRICES

18x30 in.	\$33.00
22x40 in.	48.00

For other sizes, prices on application.

SERIES 14

Conforms to U. S. Govt. Specification No. 448, Fig. 4, Detail 1, 2 or 3
Detail 1 or 2—Heavy weight
Detail 3—Light weight

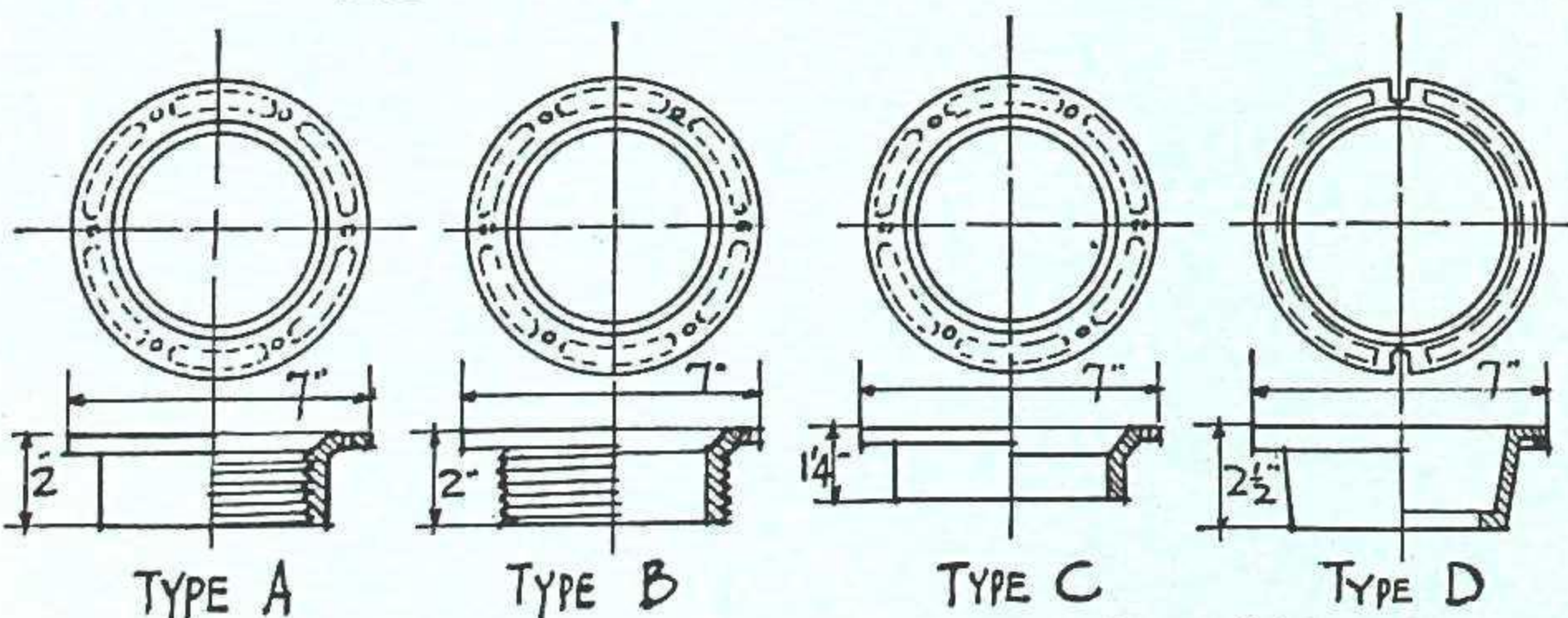


DIMENSIONS AND LIST PRICES

Detail	Dimensions in Inches					Min. Wt., lbs.	Cast Iron
	A	B	C	D	E		
1 or 2	36	25 1/2	24 1/4	25 1/2	9	331	\$32.00*
3	29 1/2	20	20	23 1/4	4	125	20.00

Manhole ladder rungs, \$1.00.

JOSAM CAST BRASS AND CAST IRON CLOSET FLOOR FLANGES



Conforms to U. S. Govt. Specifications WW-P-541, E-10r, Fig. 79 to 82
No. 448, Page 21, Fig. 3

LIST PRICES

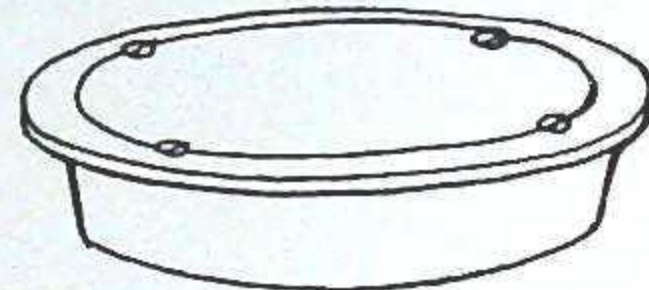
Type A—Cast Brass.....	\$3.00
Type B—Cast Brass.....	2.70
Type C—Cast Brass.....	2.30
Type D—Cast Iron.....	.60
Asbestos Gaskets for any style.....	.50
Heavy N. P. Brass Bolts, Nuts and Washers, pair .....	.30

[Page 60]

JOSAM CAST BRASS CLEANOUT FRAME AND COVER

SERIES 15

To set in marble, tile, wood or concrete floors, for covering cleanouts or valves. Made of cast brass, polished top 1 in. deep.



DIMENSIONS AND LIST PRICES

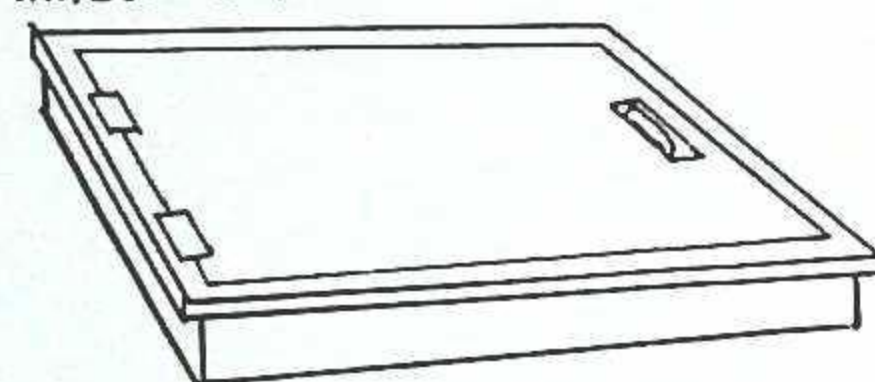
Size, in.	Over all Dia., in.	Cast Brass Polished	Add for Chrom. or N. P.
2	4 1/2	\$3.00	\$1.00
3	5 1/2	3.50	1.00
4	6 3/4	4.00	1.00
5	8	5.00	1.00
6	9 1/2	6.00	1.00
8	11 1/2	7.50	1.00

JOSAM OIL FILLING FRAME AND COVER

SERIES 150

Heavy cast iron with hinged cover and lift handle. Used over 8-in. oil-filling lines. Furnished complete with 8-in. locking device pipe coupling and plug to prevent interference with oil.

HINGED COVER - LIFT HANDLE



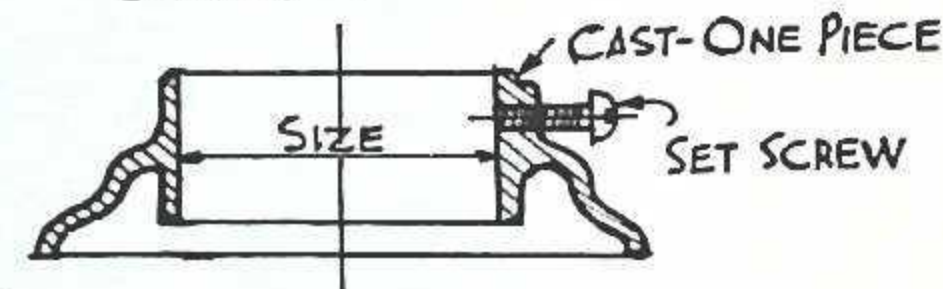
LIST PRICES

Box complete with locking coupling and plug.....	\$50.00
Hinged box with locking device only.....	25.00
9-in. round box with hinged cover for over 2-in. line.....	5.00

JOSAM FLOOR AND CEILING PLATES

SERIES 4

Conforms to U. S. Govt. Specification No. 448, Page 10, Sec. 17



Solid one-piece with set screw

LIST PRICES

In.	N. P. or Cast Iron		In.	N. P. or Cast Iron		In.	N. P. or Cast Iron	
	C. P.	Brass		C. P.	Brass		C. P.	Brass
1/2	\$.12	\$.60	1 1/2	\$.24	\$1.20	5	\$.96	\$ 4.80
3/4	.14	.70	2	.28	1.40	6	1.26	6.30
1	.16	.80	2 1/2	.36	1.80	8	2.60	13.00
1 1/4	.18	.90	3	.50	2.00	10	3.26	16.30
			4	.68	3.40			



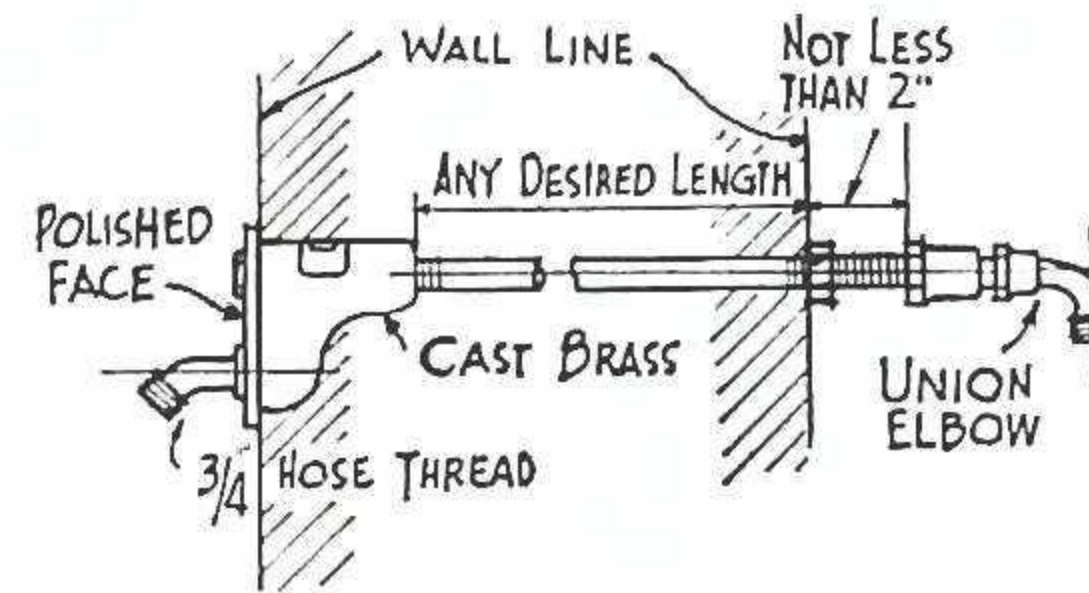
JOSAM WALL HYDRANTS

SERIES 18

Conforms to U. S. Govt. Specifications WW-P-541, E-101, Fig. 69

No. 448, Fig. 1, Detail 2

Regularly furnished for 18-in. wall, 3/4-in. hose connection and with key. Can be rewashed from outside without disturbing connections.



For	List prices	For	List prices
9-in. wall, each.....	\$6.90	22-in. wall, each.....	\$ 9.24
11-in. " " ".....	7.26	24-in. " " ".....	9.60
13-in. " " ".....	7.62	26-in. " " ".....	9.96
15-in. " " ".....	7.98	28-in. " " ".....	10.32
16-in. " " ".....	8.16	30-in. " " ".....	10.68
18-in. " " ".....	8.52	32-in. " " ".....	11.04
20-in. " " ".....	8.88	34-in. " " ".....	11.40
		36-in. " " ".....	11.76

Any intermediate length, add or deduct for each 1 inch..... .18

Modified Specifications

With Brass Outer Casing Pipe, for 9-in. wall, each.....	7.60
Additional for each 1-in. length of wall thickness.....	.28
Add for Nickel-plated Face, each.....	.60
Add for Chromium-plated Face, each.....	1.00
Add for White Metal Face, each.....	2.00

1-in. Hydrants—Price on application.

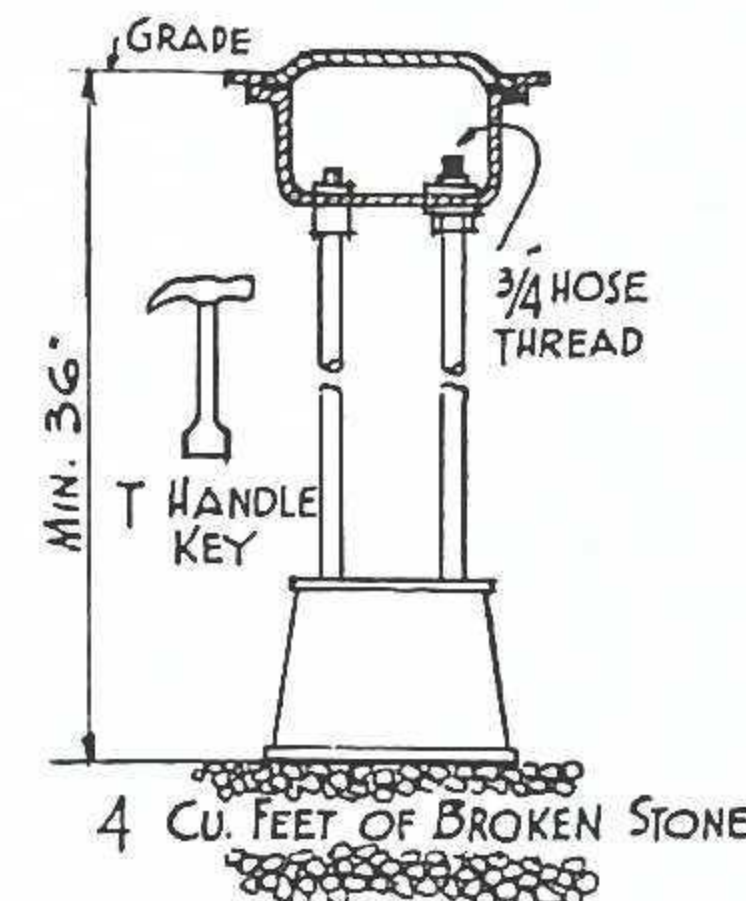
JOSAM STREET WASHERS

SERIES 17

Conforms to U. S. Govt. Specifications WW-P-541, E-10k, Fig. 68
No. 448, Fig. 1, Detail 1

General Construction

Regularly furnished 36-in. overall height, 3/4-in. hose connection and with key.

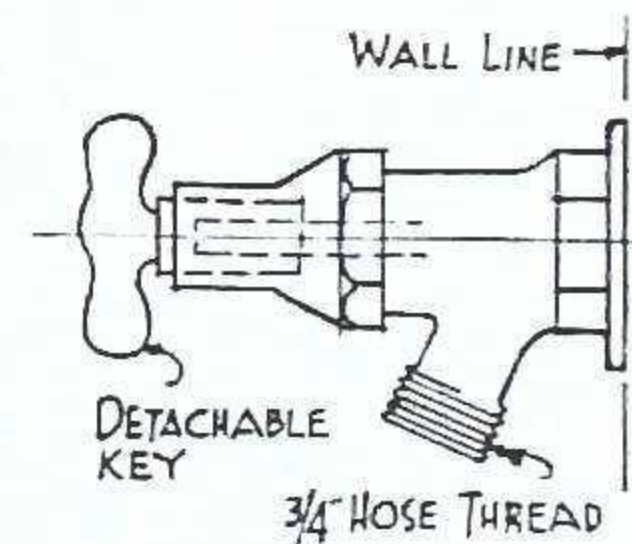


Length	List prices
36-in. Length.....	\$ 9.60
48-in. Length.....	10.10
60-in. Length.....	10.50

JOSAM BRASS SILLCOCKS

SERIES 19

Conforms to U. S. Govt. Specification No. 448, Fig. 1, Detail 3



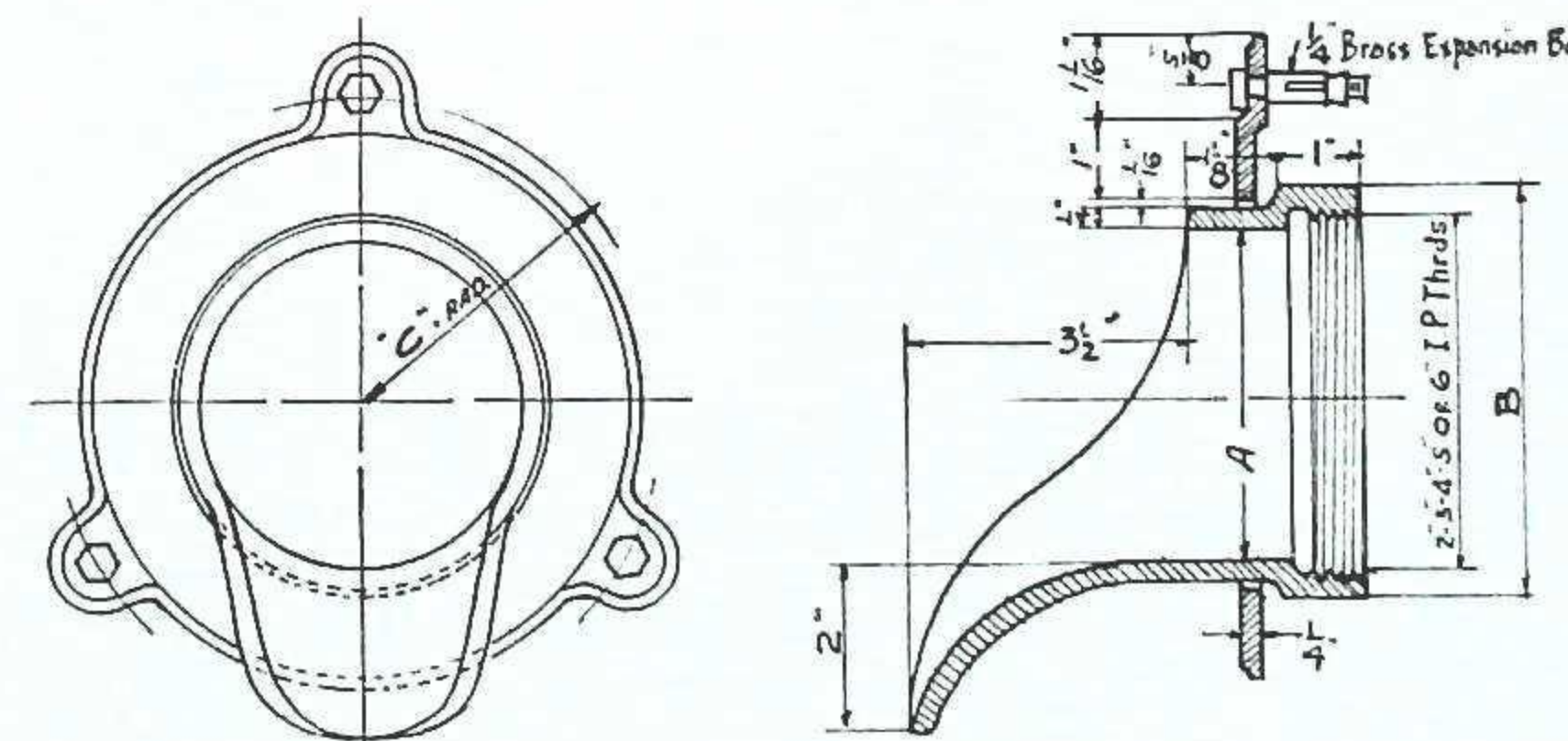
Regularly furnished for 3/4-in. pipe, with 3/4-in. hose connection and with detachable key.

List Price, satin finish.....	\$1.60
Add for polished finish.....	.40

JOSAM CAST BRASS DOWN SPOUT NOZZLES WITH WALL FLANGES

SERIES 6

Conforms to U. S. Govt. Specifications WW-P-541, E-10q, Fig. 78
No. 448, Page 21, Fig. 3

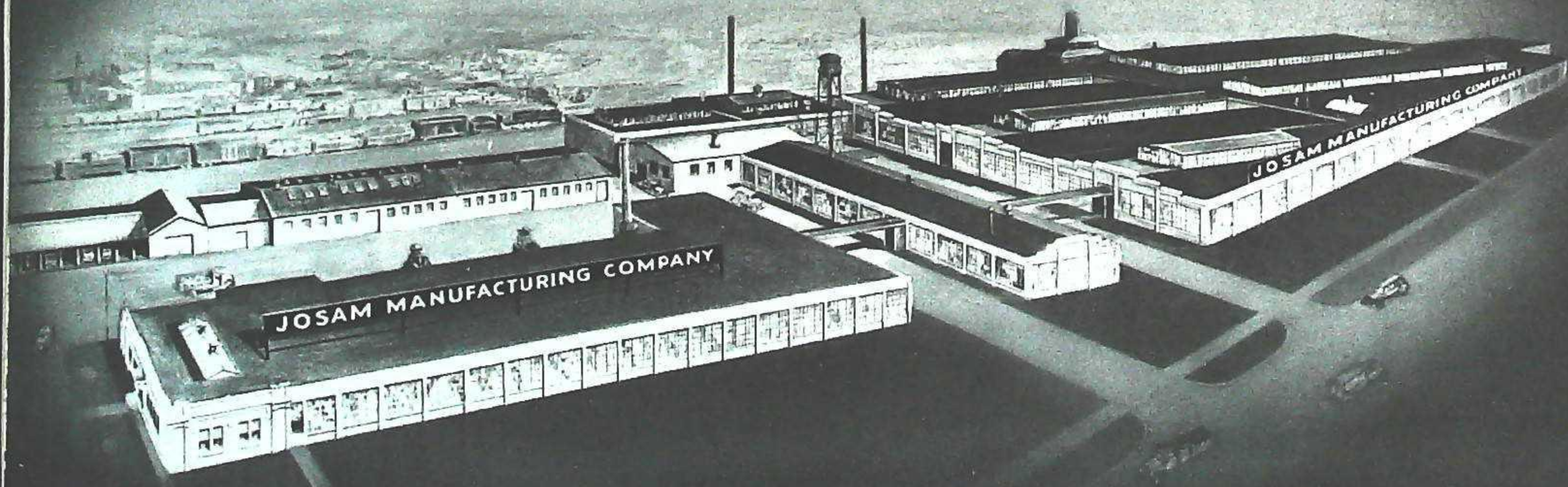


Size, in.	List prices
2	\$ 5.20
3	5.90
4	7.30
5	11.50
6	14.00
8	24.00
10	36.00

Furnished in White Metal at extra cost.

[Page 61]

Josam
PRODUCTS
STANDARD
OF AMERICA



Hy-Tech Products