

BACKWATER VALVES

Features

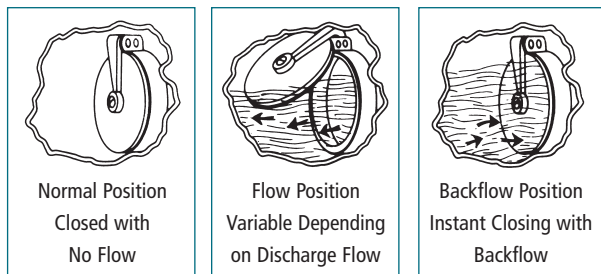
A SAFEGUARD AGAINST WATER DAMAGE

Anyone who has ever experienced flooding caused by a reversal of sewage flow never wants to be confronted with a reoccurrence. Damage is extensive and generally uninsurable. Backwater and its attendant problems must therefore be seriously considered in terms of adequate control and prevention by individuals responsible for the design and construction of buildings. To overlook the possibility of backwater or underestimate the destruction and unsanitary conditions that will result from uncontrolled backwater would be a grave mistake. JOSAM Backwater Valves provide the flood control that is required.

JOSAM OFFERS FOUR BASIC TYPES OF ASSEMBLIES

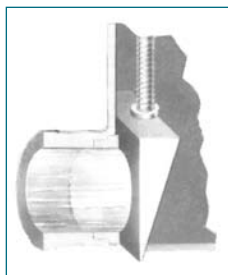
1. SWING-CHECK

The most frequently used backwater valve is the swing-check, rotating, self-cleaning disc type. This valve is normally furnished with the disc installed in the closed position to prevent circulation of sewer gas. If desired, the disc can be assembled to hang open to permit circulation of air by moving the hinge pin to its alternate position.



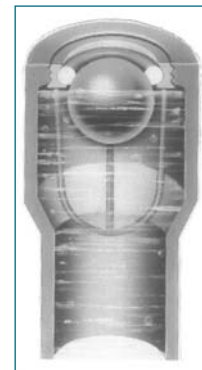
2. SHEAR-GATE

This manually operated shear-gate valve is spade shaped to cut through any sewage debris that may become lodged on the seating surface providing positive assurance of complete closing against backwater.



3. BALL-FLOAT CHECK

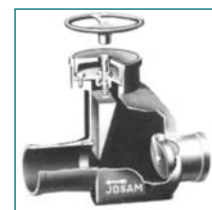
This type of backwater valve is incorporated in certain floor drains and traps. It is also used as auxiliary equipment for bottom outlet floor drains to provide independent backflow protection. The ball-float seals against the ring seat with backflow.



4. COMBINATION SHEAR-GATE AND SWING-CHECK VALVE

This combination valve provides dual protection against backflow. The automatic swing-check responds with instant closure when backflow starts. During emergency periods, when a serious backwater condition exists or is expected, or when the building drainage system is to be shut down, the manually operated shear-gate is closed until the building drain line can be used again. The shear-gate valve is kept open when the building drainage system is in use.

This type of backwater valve is intended primarily for installation in new construction.



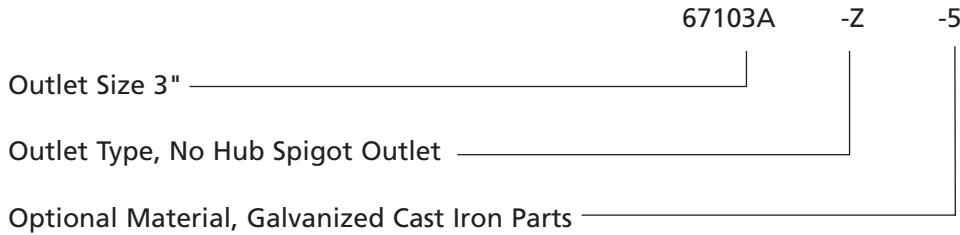
BACKWATER VALVES

How to Order

Unless optional materials are specified, standard material shown in Specification will be provided. Last digit indicates outlet size. Series 67100A Backwater Valve is for use with any 4" or 6" No-Hub Drain.

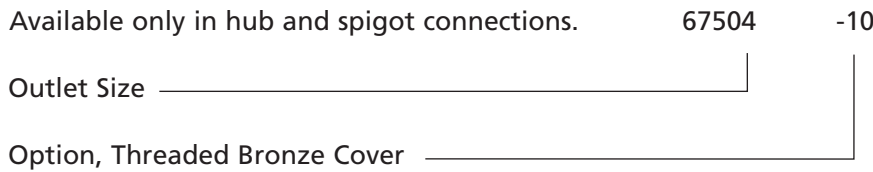
EXAMPLE: Series No. 67100A

Type No. 67103A



EXAMPLE: Series No. 67500

Type No. 67504



BACKWATER VALVES • Pictorial Selection Guide

BALL FLOAT

67100A

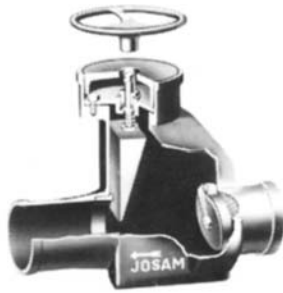


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SWING-CHECK TYPE

67360

Straight Through Shear Gate



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67360-DH

Straight Through Shear Gate, Double Hub



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67400

No-Hub Connection



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SWING-CHECK TYPE

67500

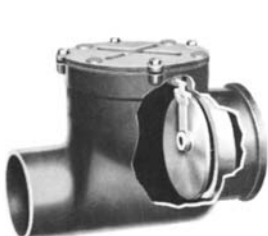
Hub & Spigot Connections



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67600

Hub & Spigot Connections



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67650

Pit Type, Spigot Connection



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67720

Terminal Type, Hub Connection



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67800

Terminal Type, Hub Connection



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67100A SERIES BALL-FLOAT ADAPTER TYPE

APPLICATION

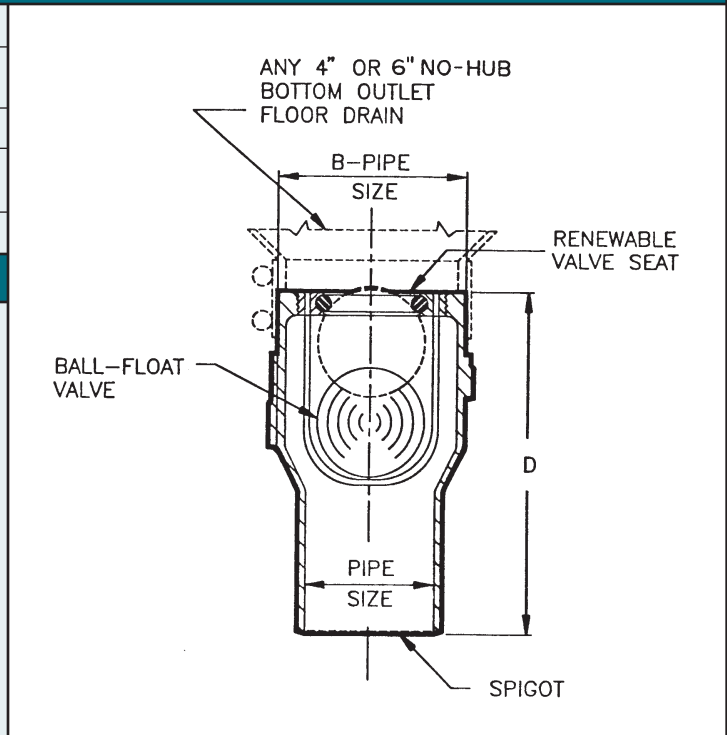
For use with any 4" or 6" No-Hub floor drain where protection from backflow may be necessary.

SPECIFICATION

JOSAM 67100A Series coated cast iron Backwater Valve, plastic ball-float, elastomer seat, bronze cage and bottom outlet spigot connection.

Available Options

- 5 Galvanized Cast Iron Parts
- 35 1/2" Primer Tap



TYPE NO.	PIPE SIZE	B	D	LBS.
67102A	2	4	6-5/8	6
67103A	3	4	7-7/8	7
67104A	4	4	6-1/8	8
67106A	6	6	10	23

67360 SERIES SHEAR-GATE & SWING-CHECK TYPE

APPLICATION

For use in main or branch drain lines to protect basements and lower areas from sewer back up. Flapper type backwater valve provides continuous protection against sewage backflow into building. Manually closed shear-gate valve provides additional complete "closure" protection during emergency storm conditions or when building is completely shut down.

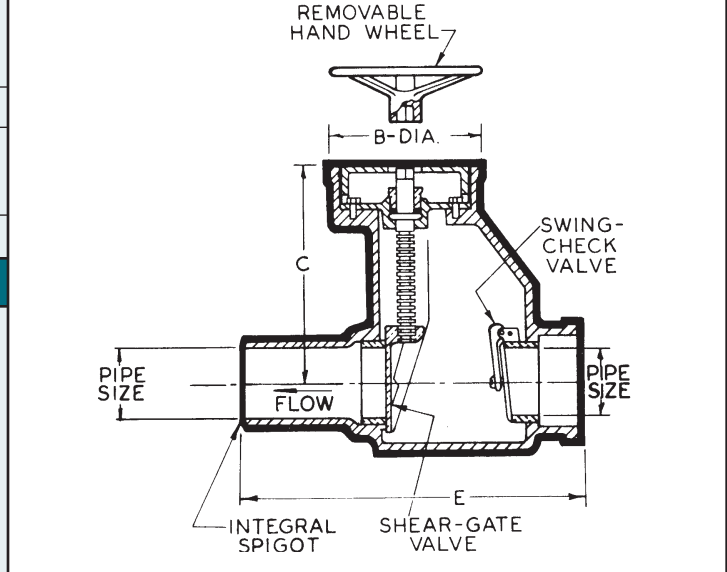
SPECIFICATION

JOSAM 67360 Series coated cast iron combination Backwater Valve, straight-through type, bronze swing-check assembly, bronze manually operated shear-gate with non-rising stem and hub and spigot connections.

Available Options

- ▼ -DH Double Hub
- 15 Open Flap
- 28 12" Cast Iron Extension and Stem
- 29 24" Cast Iron Extension and Stem

STRAIGHT-THROUGH TYPE FOR EXISTING INSTALLATIONS



NOTE: SWING-CHECK VALVE NORMALLY HANGS IN CLOSED POSITION, BUT CAN BE SET TO HANG OPEN.

TYPE NO.	PIPE SIZE	B	C	E	LBS.
67363	3	8	12	17-1/2	80
67364	4	8	12	17-1/2	80
67365	5	10-1/2	14-1/2	19-1/2	120
67366	6	10-1/2	14-1/2	19-1/2	120

BMW, HYDRANTS & SHOCKS

67360-DH SERIES

with -DH Double Hub

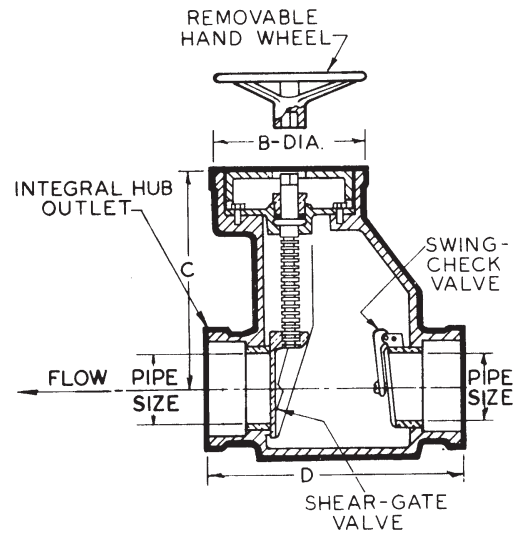
APPLICATION

For use in main or branch drain lines to protect basements and lower areas from sewer back up. Flapper type backwater valve provides continuous protection against sewage backflow into building. Manually closed shear-gate valve provides additional complete "closure" protection during emergency storm conditions or when building is completely shut down.

SPECIFICATION

JOSAM 67360-DH Series coated cast iron combination Backwater Valve, straight-through type, bronze swing-check assembly, bronze manually operated shear-gate with non-rising stem and hub connections.

STRAIGHT-THROUGH TYPE
FOR EXISTING
INSTALLATIONS



NOTE: SWING-CHECK VALVE NORMALLY HANGS IN CLOSED POSITION, BUT CAN BE SET TO HANG OPEN.

TYPE NO.	PIPE SIZE	B	C	D	LBS.
67363-DH	3	8	12	16	80
67364-DH	4	8	12	16	80
67365-DH	5	10-1/2	14-1/2	16	120
67366-DH	6	10-1/2	14-1/2	16	120

67400 SERIES

NO-HUB SWING-CHECK TYPE

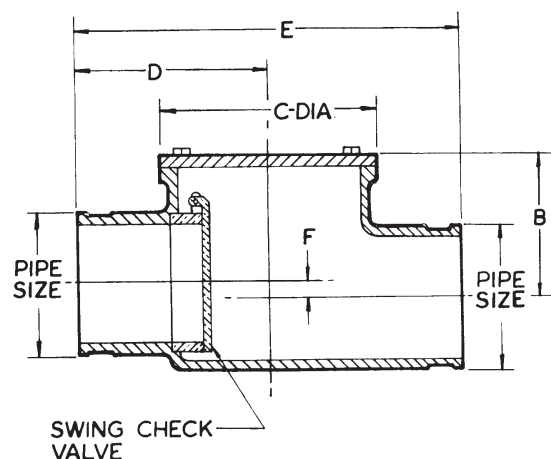
APPLICATION

For use in main or branch drain lines to protect basements and lower areas from sewer back up. Flapper type backwater valve provides continuous protection against sewage backflow into building.

SPECIFICATION

JOSAM 67400 Series coated cast iron Backwater Valve, offset type, bronze fixed swing-check assembly, bolted gasketed cover and no-hub connections.

BOLTED COVER,
OFFSET TYPE



TYPE NO.	PIPE SIZE	B	C	D	E	F	LBS.
67402	2	3-5/8	5-1/4	4	8	1/2	10
67403	3	4	6	5	10	1/2	13
67404	4	4-3/4	7	6	12	1/2	21
67406	6	5-3/4	9	6	12	5/8	38

BWW, HYDRANTS & SHOCKS

67500 SERIES HUB & SPIGOT, SWING-CHECK TYPE

APPLICATION

For use in main or branch drain lines to protect basements and lower areas from sewer back up. Flapper type backwater valve provides continuous protection against sewage backflow into building.

SPECIFICATION

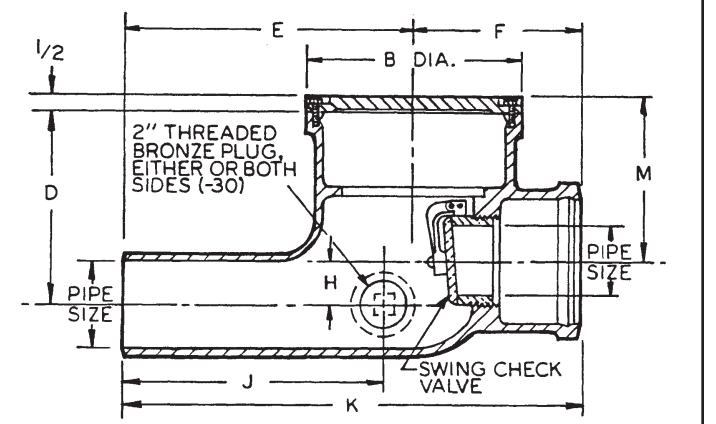
JOSAM 67500 Series coated cast iron Backwater Valve, offset type, bronze swing-check assembly, bolted gasketed cover and hub and spigot connections.

Available Options

- * -10 Threaded Bronze Cover 3"-8"
- 15 Open Flap
- 30 2" Auxiliary Inlet with Bronze Plug

* For extension, use -10 option with hub and spigot extension pipe by others.

BOLTED COVER, OFFSET TYPE



NOTE: SWING-CHECK VALVE NORMALLY HANGS IN CLOSED POSITION, BUT CAN BE SET TO HANG OPEN.

TYPE NO.	PIPE SIZE	B	D	E	F	H	J	K	M	LBS.
67502	2	6-7/8	6-1/4	7	5	1-1/2	6-1/2	12	5-1/4	25
67503	3	7-7/8	7-1/2	10	5-3/4	1-1/4	9	15-3/4	6-3/4	30
67504	4	9	8-1/8	10-3/4	6-3/8	1-1/2	9	17-1/8	7-1/4	40
67506	6	11-1/4	10	11-3/4	7-3/4	1-3/4	10-3/4	19-1/2	8-3/4	65
67508	8	13-3/4	11-3/4	12-1/2	7-3/4	2-1/4	11	20-1/4	10	79

67600 SERIES HUB & SPIGOT, SWING-CHECK TYPE

APPLICATION

For use in main or branch drain lines to protect basements and lower areas from sewer back up. Flapper type backwater valve provides continuous protection against sewage backflow into building.

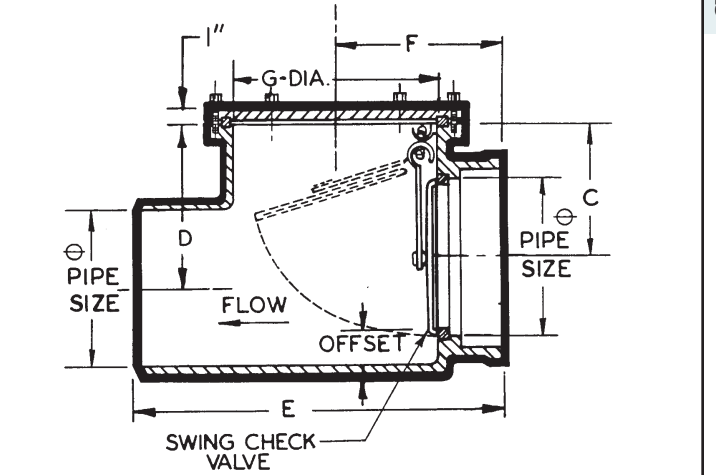
SPECIFICATION

JOSAM 67600 Series coated cast iron Backwater Valve, offset type, bronze swing-check assembly, bolted gasketed cover and hub and spigot connections.

Available Option

- 15 Open Flap

BOLTED COVER, OFFSET TYPE



NOTE: SWING-CHECK VALVE NORMALLY HANGS IN CLOSED POSITION, BUT CAN BE SET TO HANG OPEN.
 ⊕ HUB AND SPIGOT DIM. ARE IN ACCORDANCE WITH E.H.C.I. SOIL PIPE STANDARDS.

TYPE NO.	PIPE SIZE	OFFSET	C	D	E	F	G	LBS.
67610	10	2	8-1/2	10-1/2	23	10-1/2	13	216
67612	12	2	9-1/4	11-1/4	25-3/4	12	15	277

BMW, HYDRANTS & SHOCKS

67650 SERIES

COMBINED DRAIN/SWING-CHECK TYPE

APPLICATION

For use at the base of walls in pits or pools, where elevation is limited, requiring a vertical inlet drain with a back outlet and a flapper type backwater valve to safeguard pit equipment or pool from backflow contamination.

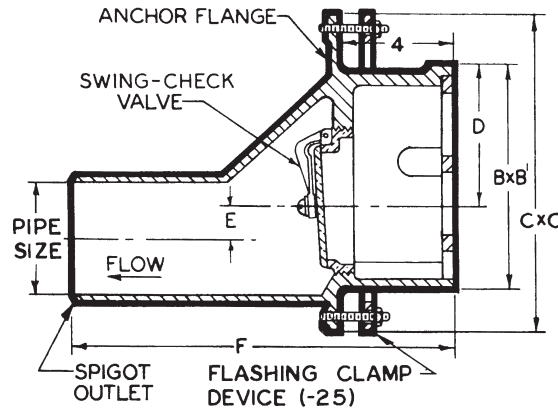
SPECIFICATION

JOSAM 67650 Series coated cast iron Backwater Valve, pit type, bronze swing-check assembly, vertical inlet grate and spigot connection.

Available Options

- 1 Satin Finish Nikaloy Face
- 2 Satin Finish Bronze Face
- 5 Galvanized Cast Iron Parts
- 25 Flashing Clamp Device
- VP Secured Face, Vandal-Proof Screws
- LBV Less Backwater Valve

SECURED COVER,
PIT TYPE



TYPE NO.	PIPE SIZE	B X B'	C X C'	D	E	F	FREE AREA SQ. IN.	LBS.
67653	3	9-5/16 x 7-5/8	12-3/4 x 10-7/8	5-1/8	1-1/8	13	19	40
67654	4	9-5/16 x 7-5/8	12-3/4 x 10-7/8	5-1/8	1-1/8	13	19	40
67656	6	11 x 8-7/8	14-3/4 x 12-3/8	5-1/2	1-1/8	14	22	52

67720 SERIES

HUB INLET, SWING-CHECK TYPE

APPLICATION

For use at the termination of drain lines which discharge into manholes and basins or through retaining walls to protect the lines from backflow and discourage the entrance of vermin.

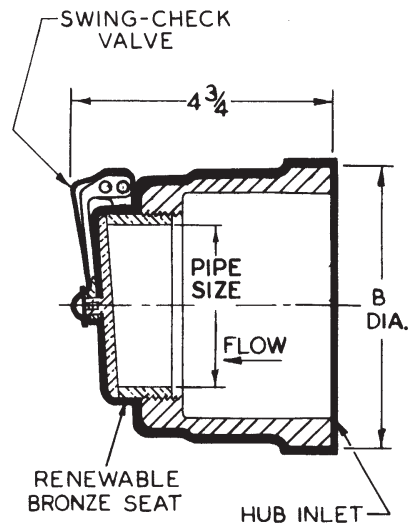
SPECIFICATION

JOSAM 67720 Series coated cast iron Backwater Valve, terminal type, bronze swing-check assembly and hub connection.

Available Options

- 15 Open Flap

TERMINAL TYPE



NOTE: SWING-CHECK VALVE NORMALLY HANGS IN CLOSED POSITION, BUT CAN BE SET TO HANG OPEN.

TYPE NO.	PIPE SIZE	B	LBS.
67723	3	5	5
67724	4	6-1/4	7

67800 SERIES

HUB INLET, SWING-CHECK TYPE

APPLICATION

For use at the termination of drain lines which discharge into manholes and basins or through retaining walls to protect the lines from backflow and discourage the entrance of vermin.

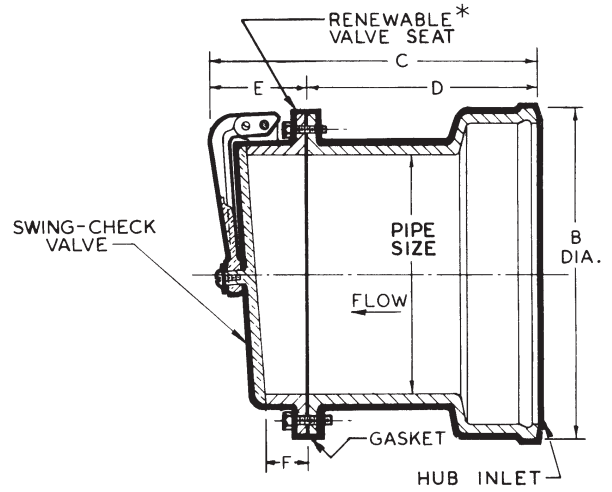
SPECIFICATION

JOSAM 67800 Series coated cast iron Backwater Valve, terminal type, bronze swing-check assembly with bolted cast iron seat and hub connection.

Available Options

- 4 Bronze Seat
- 15 Open Flap

TERMINAL TYPE



NOTE: SWING-CHECK VALVE NORMALLY HANGS IN CLOSED POSITION, BUT CAN BE SET TO HANG OPEN.

* 67806 VALVE SEAT IS FLANGED, GASKETED AND BOLTED.
67808 VALVE SEAT IS JOINED TO HUB INLET BY THREADS.

TYPE NO.	PIPE SIZE	B	C	D	E	F	LBS.
67806	6	8-1/8	9-7/8	7-3/4	2-1/8	7/8	20
67808	8	10-1/8	15-3/4	11-1/2	4-1/4	1-1/4	82