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.
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**

| 67103A | -Z | -5 |

Outlet Size 3"        
Outlet Type, No Hub Spigot Outlet  
Optional Material, Galvanized Cast Iron Parts

**EXAMPLE: Series No. 67500**

| 67504 | -10 |

Available only in hub and spigot connections.  
Outlet Size  
Option, Threaded Bronze Cover

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**BACKWATER VALVES • Pictorial Selection Guide**

### BALL FLOTT

<table>
<thead>
<tr>
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<th>67360</th>
<th>67360-DH</th>
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### SWING-CHECK TYPE

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**SWING-CHECK TYPE**

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**SWING-CHECK TYPE**

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**SWING-CHECK TYPE**

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234
**67100A SERIES**

**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

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**67360 SERIES**

**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

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**BALL-FLOAT ADAPTER TYPE**

**ANY 4" OR 6" NO-HUB BOTTOM OUTLET FLOOR DRAIN**

**RENEWABLE VALVE SEAT**

**BALL-FLOAT VALVE**

**PIPE SIZE**

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

**SHEAR-GATE & SWING-CHECK TYPE**

**STRAIGHT-THROUGH TYPE FOR EXISTING INSTALLATIONS**

**REMOVABLE HAND WHEEL**

**SWING-CHECK VALVE**

<table>
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- Product Illustration follows.
**BACKWATER VALVES**

### 67360-DH SERIES

**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**

![Diagram](image1)

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

<table>
<thead>
<tr>
<th>TYPE NO.</th>
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### 67400 SERIES

**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.

**NO-HUB SWING-CHECK TYPE**

![Diagram](image2)

**BOLTED COVER, OFFSET TYPE**

<table>
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### 67500 SERIES

**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

### 67600 SERIES

**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

### HUB & SPIGOT, SWING-CHECK TYPE

#### BOLTED COVER, OFFSET TYPE

<table>
<thead>
<tr>
<th>TYPE NO.</th>
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* For extension, use –10 option with hub and spigot extension pipe by others.

**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.
**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

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**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

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**COMBINED DRAIN/SWING-CHECK TYPE**

**67650 SERIES**

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<th>C X C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>FREE AREA SQ. IN.</th>
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**67720 SERIES**

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**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

### 67800 SERIES
**HUB INLET, SWING-CHECK TYPE**

**PIPE SIZE**

<table>
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**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.