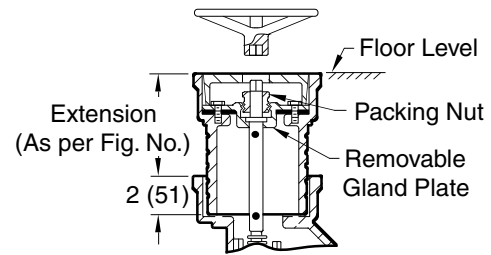
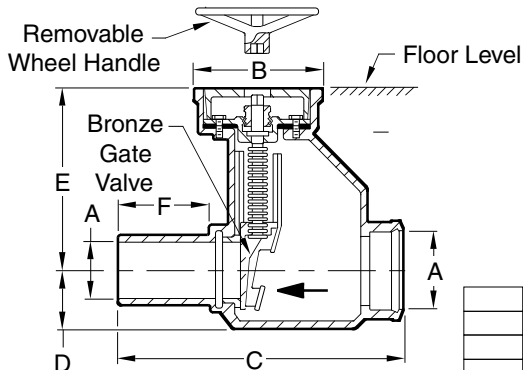


# BACKWATER VALVES

## IN-LINE MANUAL SHUT-OFF GATE VALVE

**FUNCTION:** Functions as a drainage control valve; flapper type backwater valve provides normal protection against sewage backflow into building. Manually closed "spade" type gate valve provides additional complete "closure" protection during emergency storm conditions or when building is completely shut down.



- Fig. 7160C ..... CAULK INLET NO-HUB OUTLET
- Fig. 7160Y ..... NO-HUB INLET & OUTLET

- Fig. 7161C ... with 12(305) in. Extension/03(80) & 04(100) in. Inlet & Outlet
- Fig. 7161Y ... with 12(305) in. Extension/04(100) in. Inlet & Outlet
- Fig. 7162C ... with 24(610) in. Extension/03(80) & 04(100) in. Inlet & Outlet
- Fig. 7162Y ... with 24(610) in. Extension/04(100) in. Inlet & Outlet
- Fig. 7163C ... with 9 1/2(240) in. Extension/06(150) in. Inlet & Outlet
- Fig. 7163Y ... with 9 1/2(240) in. Extension/06(150) in. Inlet & Outlet
- Fig. 7164C ... with 21 1/2(545) in. Extension/06(150) in. Inlet & Outlet
- Fig. 7164Y ... with 21 1/2(545) in. Extension/06(150) in. Inlet & Outlet

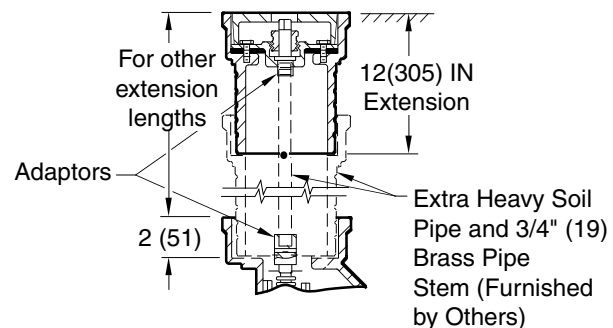
A SIZE	B DIA.	C	D	E	F
04(100)	8 (205)	18(455)	3 3/4(95)	12(305)	5(125)
06(150)	10 1/2(265)	20(510)	4 1/2(115)	14 1/2(370)	5(125)

**NOTE:** Extension joint(s) must be caulked using 1"(25) of oakum and 1"(25) of poured lead. Not sized for compression type gaskets.

**NOTE:** Fig. 7160C and 7160Y are accessible from finished floor. Non-rising stem with spade-shaped gate assures positive closure.

**NOTE:** During periods when manual shut-off valve is closed, use of building plumbing fixtures and drains must be avoided.

**NOTE:** Dimensions shown in parentheses are in millimeters.



- Fig. 7165C ... CAULK WITH EXTENSION ADAPTOR
- Fig. 7165Y ... NO-HUB ONLY

**REGULARLY FURNISHED:**  
 Duco Cast Iron Body and Cover with Removable Wheel Handle. Bronze Gate Valve. Cast Iron Extensions as Indicated by Figure Number Selected.

**VARIATIONS:**  
 Outlet Sized for Service Weight -SW (When Specified)

**OPTIONAL MATERIALS:**  
 Galvanized Cast Iron -G

**NOTE:** These valves offer protection against backwater surges. Backflow is prevented when valve is not obstructed by debris or sludge. Use for gravity flow only, not for pressurized applications.

DRAWING NUMBER  
S7160

SIZE  
A

SCALE:  
NONE

DATE:  
5-17-96

APPROVED BY:

CHECKED BY:

DRAWN BY:  
EMB

7160

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

REV.	DATE	DESCRIPTION	BY	CKD. BY

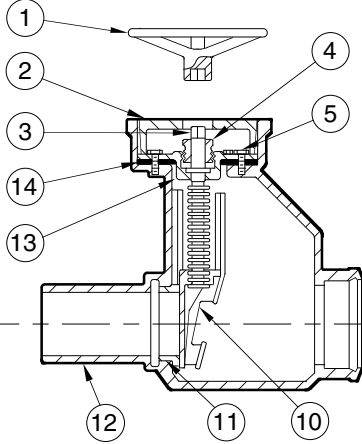
WEIGHT POUNDS	VOLUME CUBIC FEET	<b>FIGURE NUMBER</b> <b>7160</b>
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# BACKWATER VALVES

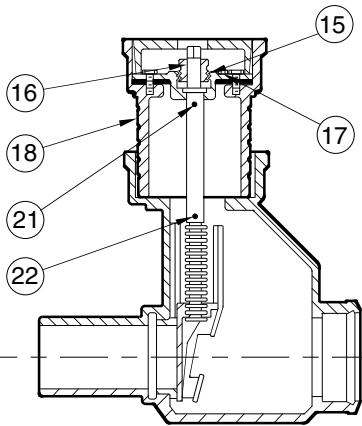
## INLINE MANUAL SHUT-OFF GATE VALVE

### PARTS LIST AND MAINTENANCE INSTRUCTIONS

PART NO.	DESCRIPTION
1	WHEEL HANDLE
2	COVER PLATE
3	STEM
4	PACKING BUSHING
5	VALVE PLATE BOLTS
10	GATE
11	GATE SEAT
12	BODY
13	VALVE PLATE
14	VALVE PLATE GASKET
15	PACKING
16	EXTENSION ROD ASSEMBLY
17	CHECK PLUG
18	EXTENSION
19	EXTENSION ADAPTOR
20	EXTENSION ADAPTOR STEM - TOP
21	STEM PIN
22	STEM PIN
23	EXTENSION ADAPTOR STEM ASS'Y - LOWER



**Fig. 7160**  
 04 (100), 06"(150)

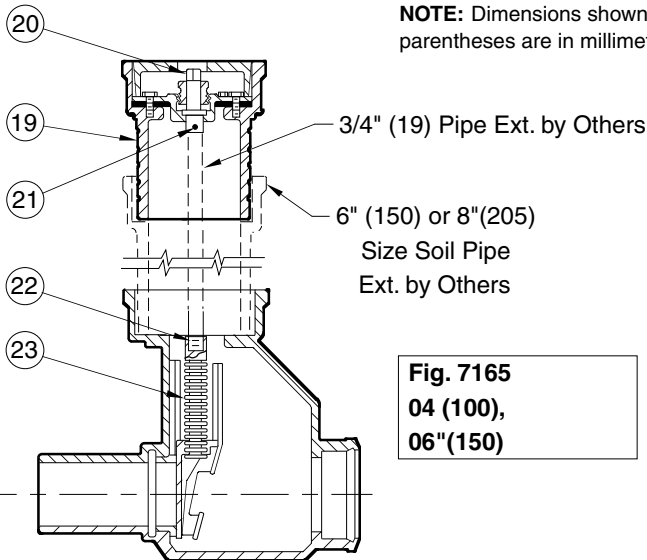


**Fig. 7161 04"(100)**  
**Fig. 7162 04"(100)**  
**Fig. 7163 06" (150)**  
**Fig. 7164 06"(150)**

**NOTE:** Extension joint(s) must be caulked using 1" (25) of oakum and 1" (25) of poured lead. Not sized for compression type gaskets.

**NOTE:** Dimensions shown in parentheses are in millimeters.

**NOTE:** For Replacement Parts Specify Part No., Fig. No. and Size Gate Valve.



**Fig. 7165**  
 04 (100),  
 06"(150)

Cover Plate Dia. For 04" (100) Size 7" (180) Dia.  
 Cover Plate Dia. For 06" (150) Size 9 1/2 (240) Dia.

#### SEMI-ANNUAL MAINTENANCE INSTRUCTIONS

1. REMOVE COVER PLATE.
2. LOOSEN FOUR BOLTS FROM VALVE PLATE.
3. CLOSE GATE VALVE UNTIL VALVE COVER PLATE LOOSENS.
4. REMOVE VALVE PLATE, STEM AND GATE ASSEMBLY.
5. HOSE DEBRIS FROM VALVE BODY AND LUBRICATE STEM AND DISC HINGE.
6. REPLACE ASSEMBLY IN VALVE BODY, MAKE SURE THE GATE IS IN TRACK.
7. START THE BOLTS, AND TURN WHEEL HANDLE TO OPEN POSITION.
8. TIGHTEN BOLTS.

DRAWING NUMBER  
**57160BS**

SIZE  
**A**

SCALE:  
**NONE**

DATE:  
**5-17-96**

APPROVED BY:

CHECKED BY:

DRAWN BY:  
**EMB**

**7160BS**

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

REV.	DATE	DESCRIPTION	BY	CKD. BY

WEIGHT POUNDS	VOLUME CUBIC FEET	<b>FIGURE NUMBER</b>  <b>7160BS</b>
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