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.

**IN-LINE MANUAL SHUT-OFF GATE VALVE**

Fig. 7150 Series

Fig. 7150 In-line Manual Shut-Off Backwater Valve may be installed in new or existing sewer lines. Smith Engineers, realizing that most installations are made in existing lines where line pitch is already established, have designed an "In-Line" type manual shut-off valve. There is no drop in elevation from inlet to outlet, permitting the valve to be inserted in an existing line without significantly disturbing the pitch. The "In-Line" feature is particularly useful where existing sewer line pitch is at a minimum.

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

**PIT STYLE BACKWATER VALVE**

FUNCTION: Used at the base of side walls in pits, where low elevation requires a vertical inlet grate and side outlet roughing. Backwater valve provides protection against backflow which could damage equipment in pit.

**REGULARLY FURNISHED:**
Duco Cast Iron Body with Backwater Valve and Cast Iron Secured Grate.

**VARIATIONS:**
- Flashing Clamp -C
- Less Backwater Valve -LBV

**OPTIONAL MATERIALS:**
- Chrome Plated Face -CP
- Galvanized Cast Iron -G
- Nickel Bronze Face -NB
- Stainless Steel (Specify Fig. 9790)

**NOTES:**
- B.W.V. Flapper set at factory to hang in closed position. Pin can be moved to permit flapper to hang open 1/4" to permit air circulation.
- 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.

### BACKWATER VALVES TECHNICAL DATA

#### PROTECTION AGAINST BACKWATER SURGES

- **EXCESSIVE RAINFALL**
- **TIDEWATER CONDITIONS**
- **INADEQUATE CAPACITY**

**NOTE:** These conditions can cause damaging backflow flooding into basements and low areas, as well as damaging merchandise and equipment backflow can even undermine the building construction. Another important threat is the health hazard created by contaminated waste water. Avoid the inconveniences – install SMITH Backwater Valves which 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.

### IN-LINE MANUAL SHUT-OFF GATE VALVE

- Cut made long enough to expose hub on outlet side, and with enough space on inlet side for insertable fitting.

### PIT STYLE BACKWATER VALVE

- Fig. 7000S ..............SPIGOT OUTLET

<table>
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<th>A SIZE</th>
<th>B x B'</th>
<th>C x C'</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Free Area SQ IN</th>
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*Sized for Service Weight and or NO-HUB