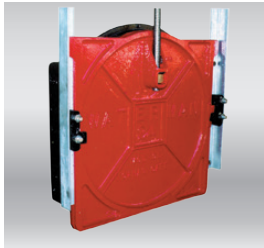




Model C-10 (12" size shown)



Model C-20



Model CL-10 Flat plate square bottom cover



Gates can be fitted to metal and plastic pipe (different methods for each). Consult salesperson for best methods.

## CAST IRON CANAL GATES—C-10 & C-20 "RED TOP" SERIES

Waterman Canal Gates offer reliable water control on canal and pipeline systems which operate at low and medium heads. They are designed for years of reliable service and incorporate best-in-class construction available only from Waterman.

### TYPICAL APPLICATIONS:

Pipeline water control, farm turnouts, industrial and food processing, waste, drainage control.

### WATERMAN EXCLUSIVES:

- Gray iron with a minimum ¼" thickness. Computer analyzed for stress and deflection using finite element analysis.
- Handwheel operation with a heavy cast-bronze lift nut and acme thread stem.
- Bolted steel frame. Choice of standard painted steel, upgraded galvanized steel, or stainless steel.
- Adjustable cast iron wedge blocks have two machine bolts for most dependable seating and high degree of water tightness.
- Precision machined seating surfaces.
- Machine-threaded stem provides ease of operation and extended life.

### OPTIONS:

- Bronze seats (C-20 only); stainless steel structural frame, guide rails and bolts; stainless steel or brass stems; epoxy, coal tar or ASTM galvanized coatings.
- Extended stems, custom pitch and thread rotation, stem guides, limit nuts.
- Flatback flanges with 25# or 125# ANSI standard drilling available on special order. (C-20)
- Waterman Rising-Stem Extensions are factory installed to the height required, providing a rising stem and handwheel, keeping threads and lifts above the water level and allowing the amount of gate opening to be readily determined.
- Non-Rising Stem Extensions position the gate handwheel at convenient static operating elevations, eliminating hardware which might otherwise rise into traffic areas.
- Geared handcrank lift for ease of operation of large gates.
- Square, flat plate slide cover (Model CL-10) which allows for a more open clog-free flow at points of initial opening.

### CONFIGURATIONS:

**F** = Flatback for headwall mounting.

**SB** = Spigotback for connection to pipe.

**CIP** = For solvent cement mounting over plastic pipe.

**C** = With galvanized steel tapered setting collar for concrete or AC pipe.

**TYPE 4** = For mounting in plastic pipe utilizing special two part epoxy.



AC-31-F



AC-31-Type 6 for HDPE



FC-10

## ALUMINUM CANAL GATES—AC-31 SERIES

Best in class design for corrosion-resistant, rust-proof installations. Heavy-duty, yet labor-saving, lightweight installation. Eliminates electrolysis when using cast iron gates with aluminum pipe. Seating heads to 30 feet, unseating heads to 20 feet. Many options, sizes and configurations available. Consult factory with your requirements.

### WATERMAN EXCLUSIVES:

- Tight closure with tapered wedge seating, low friction opening.
- Nearly drip-tight performance. Rugged, replaceable J-bulb seal.
- UHMW Polyethylene guide inserts. Stainless steel stem, bronze lift nut.

### CONFIGURATIONS:

**F** = Flatback for headwall mounting

**FF** = Flange or thimble mount

**SB** = Spigotback for spiral corrugated pipe.

**TYPE 4** = For mounting in plastic pipe utilizing special two part epoxy.

**TYPE 6** = For HDPE pipe

## COMBINATION DRAINAGE & CANAL GATES—FC-10 SERIES

The FC-10 combines a C-10 canal gate and the F-10 drainage flap gate in a single unit. When the unit is closed, the flap functions as an automatic drainage gate. The gate can be raised to permit backflow when desired. See C-10 canal gate for specifications and options.

### WATERMAN CANAL GATES SELECTION GUIDE

GATE DIAMETER	MODEL C-10 CAST IRON MAXIMUM HEAD (FEET)		MODEL C-20 CAST IRON MAXIMUM HEAD (FEET)		MODEL AC-31 ALUMINUM MAXIMUM HEAD (FEET)	
	SEATING	UNSEATING	SEATING	UNSEATING	SEATING	UNSEATING
6	23	0	35	10		
8	23	0	35	10		
10	23	0	35	10		
12	23	0	35	10	30	20
14	23	0	32	10		
15	23	0	32	10	30	20
16	23	0	32	10		
18	23	0	32	10	30	20
20	23	0	26	10		
21	23	0	26	10		
24	23	0	26	10	30	20
30	11	0	20	10	30	20
36	11	0	20	10	20	20
42	9	0	20	10	20	20
48	9	0	20	10	15	15
54	6	0			15	15
60	6	0			15	15
66	6	0			10	10
72	6	0			10	10
84					10	10