ALUMINUM DRAINAGE (FLAP) GATES

WATERMAN ALUMINUM FLAP GATES MODEL AF-41

• LIGHTER WEIGHT REDUCES INSTALLATION COSTS
• AVAILABLE IN: SPIGOTBACK, FLATBACK OR FLANGEBACK
• SIZES 12" - 84" (CUSTOM SPIGOT SIZES AVAILABLE)
• SEATING HEADS UP TO 30 FEET*

• A corrosion-resistant rust-proof automatic drainage gate designed for use with HDPE or aluminum corrugated pipe for flange mounting.
• Prevents electrolysis associated with cast iron gates to aluminum pipe connections.
• J-bulb neoprene adjustable seats provide excellent sealing against return flow.

* Recommended maximum seating heads:
  8" - 30"  30 Feet
  36" - 42"  20 Feet
  48" - 60"  15 Feet
  66" - 84"  10 Feet

Waterman Industries
of Egypt
## TYPICAL SPECIFICATIONS

### GENERAL
The flap gate shall be designed to allow free outflow and prevent backflow for maximum seating heads of 30 feet.

### CONSTRUCTION
The frame shall be aluminum of flatback, spigotback or flangeback design (or other specified design configuration as required) with seating surface inclined from vertical at a minimum of 2½ degrees to assure positive closure. The aluminum cover shall be attached to the frame in such a manner as to allow proper seating and full opening of cover. Built in stops shall be provided to prevent the cover from rotating sufficiently to become wedged in the open position. A resilient neoprene seal shall be attached to the inside of the frame opening and shall act as a seat for the cover to seal against. The seal shall be retained by an aluminum ring bolted to the frame.

The linkage system shall be of the double pivoted type, attached to fixed pivot points on cover and frame. Hinge links shall be of structural aluminum shapes. The heavily reinforced hinge arm of the Model AF-41 is fastened to the pivot lug by means of heavy stainless steel hinge pins inserted through a durable non-metallic bushing. The hinge pin is arranged in a double shear configuration at extremely close tolerances thus severely limiting lateral movement. This, in conjunction with the protruding rubber seat (in lieu of a recessed seat) insures positive seating at all times regardless of the angle of tidal action.

### MATERIALS
- **Frame, cover and hinge link**
  - Aluminum alloy 6061-T6

- **Fasteners**
  - Stainless Steel - ASTM F-593 and F-594 Type 304 or 316, as specified

- **Seals**
  - Neoprene Rubber - ASTM D-2000

- **Finish**
  - Mill finish on all surfaces
### Gate Dimensions

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DIMENSIONS UPON REQUEST

- All nominal thicknesses shown. Bolt dimensions are to DIN unless otherwise specified.

**AF-41 Flap Gates**

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