## F-10 CAST IRON DRAINAGE GATE

## **CAST IRON • AUTOMATIC**

- Flatback or Spigotback
- Cast Iron Frame and Cover
- Galvanized Steel Angle Links
- Bronze Bushings Standard
- · Built-in "Safety Bar" Prevents Sticking
- 5° seat on 6" 24" sizes
- 21/2 ° seat on 30" 72" sizes
- Steel Assembly Hardware

The Waterman Red Top Drainage Gate has been designed as a competitive flap gate for use with concrete pipe, headwalls, and corrugated metal pipe with up to a ten foot seating head. The frame and cover are of heavy duty cast iron. Steel angle links have been used to absorb unbalanced side shock, and are balance-pivoted on bronze bushings.



A 5°seat on sizes six inches to twenty-four inches and  $2\frac{1}{2}^{\circ}$  seat on

sizes 30 inches to 72 inches eliminates the need for special pipe cuts or sections, and prevents the gate from standing open due to slight pipe sagging or settling. An innovation in the cover provides each gate with a safety to prevent jamming, without additional cost.

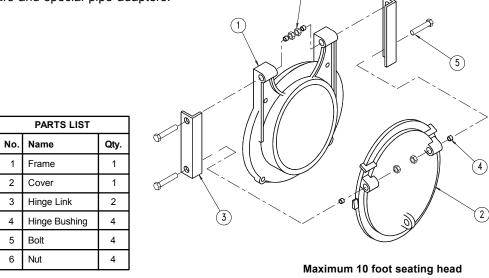
Gates are available with special stainless steel or brass links and bolts.

This gate has been extensively used on federal, state and municipal projects for drainage, waste line, sewage treatment, flood control and irrigation systems. A free outflow with practical sealing against back flow combine with maintenance-free operation to assure years of service.

This gate is not recommended for pump discharge or other applications where violent slamming may occur.

## **OPTIONAL ITEMS INCLUDE:**

- Stainless Steel or bronze links, and bolts.
- · Special heavy-duty links and bushings for severe service
- Special paint coatings or ASTM galvanizing
- Taper setting collars and special pipe adapters.





## **F-10 DRAINAGE GATE** ⇔G-⊨ ^ SAFETY STOP 6 4 SAFETY STOP В WATERMAN ISIZE XX IN D j dia MODEL Δ LIFTING EYE 4 F-10 K DIA ⊈ b Ą 0 Ø - BOLT DIA. M I proj. N 3 4 PLACES ╼─ B ─⇒<del>┥</del>─ B ─⇒ Η 4

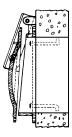
1. For use with seating heads to 10 feet.

Industries

2. Not recommended for pump discharge use.

3. Add grout pad thickness to anchor bolt projection.

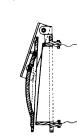
4 Applies to spigotback gate only. Spigot, shown in phantom, is optional



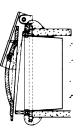
SECTION A-A

F

Flatback (Head Wall Mounting)



Spigotback (For Corrugated Metal Pipe)



With Setting Collar (For Concrete Pipe)

GATE DIMENSIONS IN INCHES											
SIZE DIA.	в	с	D	F	G	н	J	к	Ľ	м	N
4	21⁄4	6 <sup>5</sup> / <sub>16</sub>	8½	3/8	4½	21⁄4	5½	5 <sup>5</sup> ∕8	5	1/2	1¾
6	2 <sup>13</sup> / <sub>16</sub>	8½	10	3/8	4½	21⁄4	7½	7%	5	1/2	1¾
8	3½	10	12	3/8	4¼	2 <sup>3</sup> / <sub>16</sub>	9½	9 <sup>5</sup> ⁄ <sub>8</sub>	5	1/2	1¾
10	4¾	12¼	14½	3/8	4½	21⁄4	11 <sup>3</sup> / <sub>16</sub>	11 <sup>5</sup> ⁄8	5	1/2	1³⁄8
12	5½	15	17½	3/8	4½	21/8	13½	13 <sup>5</sup> ⁄8	5	1/2	1¾
14	5 <sup>15</sup> / <sub>16</sub>	161/8	19 <sup>5</sup> ⁄ <sub>8</sub>	3/8	4¾	21/8	15¼	15 <sup>5</sup> ⁄8	5	1/2	1¾
15	6¼	18½	20	3/8	5	21⁄4	16	16¾	5	1/2	1³⁄8
16	65⁄8	18 <sup>11</sup> / <sub>16</sub>	21 %	7/16	5	2¾	17	17¾	5	1/2	1¾
18	71/ <sub>16</sub>	21	24¾	7/16	5¾	21/8	19	19¾	5	1/2	1¾
20	8¼	23 <sup>%</sup> /16	26½	1/2	6	21⁄4	21½	21¾	5	5∕8	1 %
21	8%	24½	27½	1/2	7	21⁄4	22	22¾	5	5/8	11/8
24	9 <sup>11</sup> / <sub>16</sub>	27½	32	1/2	7½	21⁄4	25	26½	5	5⁄8	1⁵⁄ <sub>8</sub>
30	12	34	395⁄8	3/4	6½	2 <sup>3</sup> / <sub>16</sub>	31	32	2½	3/4	2
36	14¾	40 %	46	3/4	8	21/8	37	38	2½	3/4	2
42	16 <sup>11</sup> / <sub>16</sub>	47¾	55¾	3/4	8	21⁄2	43½	44½	2½	3/4	2
48	19 <sup>5</sup> ⁄ <sub>16</sub>	54½	63¾	3/4	9½	3	49½	50½	21⁄2	³∕₄	2
54	22 <sup>1</sup> / <sub>8</sub>	60¼	71	7⁄8	9¾	3	55¼	57	21⁄2	1	2¾
60	24 <sup>13</sup> / <sub>16</sub>	72	805⁄8	1	10¾	3	61¼	62¾	2½	1	2¾
72	29	83	95½	1	11½	31/8	74¾	76½	2½	1	2 <sup>3</sup> / <sub>4</sub>

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