

STAINLESS STEEL DRAINAGE (FLAP) GATES



WATERMAN STAINLESS STEEL FLAP GATES MODEL SSF-41

- **AVAILABLE IN: SPIGOTBACK, FLATBACK OR FLANGEBACK**
- **SIZES 12" - 84" (CUSTOM SPIGOTSIZES AVAILABLE)**
- **SEATING HEADS UP TO 30 FEET***

- A corrosion-resistant rust-proof automatic drainage gate designed for flange mounting or wall mounting.
- J-bulb neoprene adjustable seats provide excellent sealing against return flow.
- Flatback for mounting to headwall.
- Flangeback to mate with 25# or 125# pipe flange.

* Recommended maximum seating heads:

8" - 30"	30 Feet
36" - 42"	20 Feet
48" - 60"	15 Feet
66" - 84"	10 Feet

SSF-41 STAINLESS STEEL FLAP GATES

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 stainless steel 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 stainless steel 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 a stainless steel 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 stainless steel shapes. The heavily reinforced hinge arm of the Model SSF-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

Stainless Steel - ASTM A-240/A-276, Type 304L or 316L, as specified

Fasteners

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

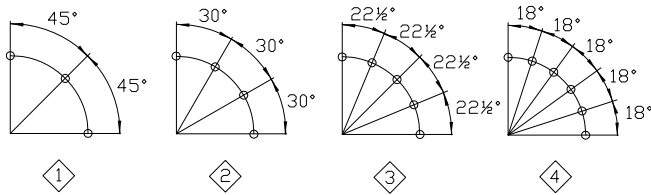
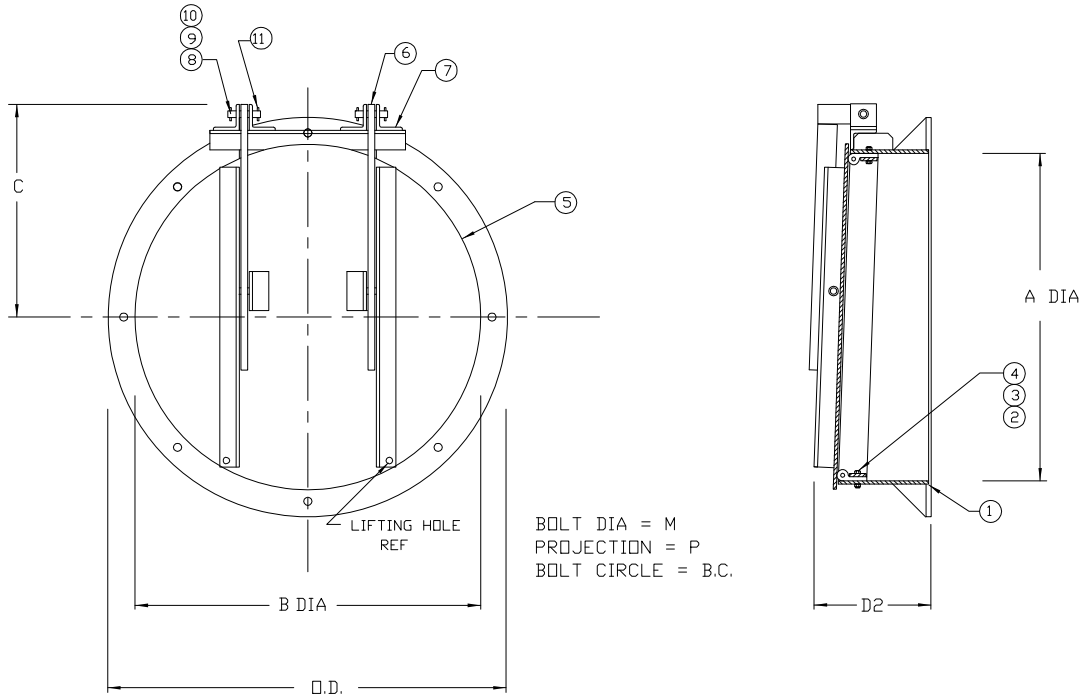
Seals

Neoprene Rubber - ASTM D-2000

Finish

Mill finish on all surfaces

FOR PRELIMINARY DESIGN PURPOSES ONLY
DO NOT USE FOR INSTALLATION UNLESS
PART OF CERTIFIED & APPROVED SUBMITTAL



NO.	NAME
1	FRAME
2	SEAT
3	RETAINER RING
4	HEX HEAD BOLT/NUT
5	COVER
6	HINGE ARM
7	PIVOT LUG
8	HEX HEAD BOLT/NUT
9	HINGE PIN
10	BUSHING
11	WASHER
12	SPRING PIN

GATE SIZE	A	B	C	D1	D2	D3	E	E3	O.D.	B.C.	M	P [2]	◇
12	13 1/8	13 1/2	10 1/4	8 3/4	8 7/8	11 1/2	4	7	17 1/2	15 3/4	1/2	1	1
15	16 1/8	17	12 1/4	8 3/4	8 7/8	11 1/2	4	7	20 1/2	18 3/4	1/2	1	2
18	19 1/8	20	14 1/4	8 3/4	8 7/8	11 1/2	4	7	23 1/2	21 3/4	1/2	1	2
24	25 1/8	26 1/2	16 3/4	8 3/4	8 7/8	11 1/2	4	7	30 7/8	28 1/4	1/2	1 1/2	2
30	31 1/8	32 1/2	19 3/4	10 1/2	10 5/8	12	4 1/2	7	36 5/8	34 1/4	1/2	1 1/2	3
36	37 1/8	38 1/2	24	10 1/4	10 3/8	12	4 1/2	7 1/2	42 5/8	40 1/4	1/2	1 1/2	3
42	43 1/8	46	28	13	13 1/8	-	5 1/2	-	48 5/8	46 1/4	1/2	1 1/2	3
48	49 1/8	52	31	13 5/8	13 3/4	-	5 1/2	-	54 5/8	52 1/4	1/2	1 1/2	4
54	55 1/8	58	35	13 1/4	13 3/8	-	6 1/2	-	60 5/8	58 1/4	5/8	2	4
60	61 1/8	64	38	15 1/4	15 3/8	-	6 1/2	-	66 5/8	64 1/4	5/8	2	4
72	73 1/8	76	44 1/2	17 1/8	17 1/4	-	7 1/4	-	78 5/8	76 1/4	5/8	2	4
84	DIMENSIONS UPON REQUEST												

[2] ADD GROUT PAD THICKNESS TO ANCHR BOLT PROJECTION
1 ALL DIMENSIONS ARE IN INCH
NOTES: UNLESS OTHERWISE SPECIFIED.

REVISION	DATE	APPROVED
DRAWN BY MK	CHECKED BY	
SCALE NONE	DATE 28-10-05	
DRAWING NO. 100634		

SSF-41 FLAP GATES