



FLAT BACK & SPIGOT BACK CAST IRON FRAME AND GATE
INSTALLATION WITH CONCRETE WALL
& ATTACHED TO CORRUGATED METAL PIPE

Gate Size	A	B	C	D	E	Weight	Gate	Frame
12"	12 1/2"	12 1/2"	12 1/2"	12 1/2"	12 1/2"	20	12"	12"
18"	18 1/2"	18 1/2"	18 1/2"	18 1/2"	18 1/2"	35	18"	18"
24"	24 1/2"	24 1/2"	24 1/2"	24 1/2"	24 1/2"	55	24"	24"
30"	30 1/2"	30 1/2"	30 1/2"	30 1/2"	30 1/2"	85	30"	30"
36"	36 1/2"	36 1/2"	36 1/2"	36 1/2"	36 1/2"	125	36"	36"
42"	42 1/2"	42 1/2"	42 1/2"	42 1/2"	42 1/2"	175	42"	42"
48"	48 1/2"	48 1/2"	48 1/2"	48 1/2"	48 1/2"	235	48"	48"
54"	54 1/2"	54 1/2"	54 1/2"	54 1/2"	54 1/2"	305	54"	54"
60"	60 1/2"	60 1/2"	60 1/2"	60 1/2"	60 1/2"	385	60"	60"
66"	66 1/2"	66 1/2"	66 1/2"	66 1/2"	66 1/2"	475	66"	66"
72"	72 1/2"	72 1/2"	72 1/2"	72 1/2"	72 1/2"	575	72"	72"
78"	78 1/2"	78 1/2"	78 1/2"	78 1/2"	78 1/2"	685	78"	78"
84"	84 1/2"	84 1/2"	84 1/2"	84 1/2"	84 1/2"	805	84"	84"
90"	90 1/2"	90 1/2"	90 1/2"	90 1/2"	90 1/2"	935	90"	90"
96"	96 1/2"	96 1/2"	96 1/2"	96 1/2"	96 1/2"	1075	96"	96"
102"	102 1/2"	102 1/2"	102 1/2"	102 1/2"	102 1/2"	1225	102"	102"
108"	108 1/2"	108 1/2"	108 1/2"	108 1/2"	108 1/2"	1385	108"	108"
114"	114 1/2"	114 1/2"	114 1/2"	114 1/2"	114 1/2"	1555	114"	114"
120"	120 1/2"	120 1/2"	120 1/2"	120 1/2"	120 1/2"	1735	120"	120"
126"	126 1/2"	126 1/2"	126 1/2"	126 1/2"	126 1/2"	1925	126"	126"
132"	132 1/2"	132 1/2"	132 1/2"	132 1/2"	132 1/2"	2125	132"	132"
138"	138 1/2"	138 1/2"	138 1/2"	138 1/2"	138 1/2"	2335	138"	138"
144"	144 1/2"	144 1/2"	144 1/2"	144 1/2"	144 1/2"	2555	144"	144"
150"	150 1/2"	150 1/2"	150 1/2"	150 1/2"	150 1/2"	2785	150"	150"
156"	156 1/2"	156 1/2"	156 1/2"	156 1/2"	156 1/2"	3025	156"	156"
162"	162 1/2"	162 1/2"	162 1/2"	162 1/2"	162 1/2"	3275	162"	162"
168"	168 1/2"	168 1/2"	168 1/2"	168 1/2"	168 1/2"	3535	168"	168"
174"	174 1/2"	174 1/2"	174 1/2"	174 1/2"	174 1/2"	3805	174"	174"
180"	180 1/2"	180 1/2"	180 1/2"	180 1/2"	180 1/2"	4085	180"	180"
186"	186 1/2"	186 1/2"	186 1/2"	186 1/2"	186 1/2"	4375	186"	186"
192"	192 1/2"	192 1/2"	192 1/2"	192 1/2"	192 1/2"	4675	192"	192"
198"	198 1/2"	198 1/2"	198 1/2"	198 1/2"	198 1/2"	4985	198"	198"
204"	204 1/2"	204 1/2"	204 1/2"	204 1/2"	204 1/2"	5305	204"	204"

NOTE: Automatic flap gate shall conform to the dimensions and gate weight limits shown in the table. The gate shall be installed in concrete and with the manufacturer's recommended gate and frame. The gate shall be set on the concrete wall and the frame shall be set on the corrugated metal pipe. The gate and frame shall be cast with the concrete wall. Gate and nuts shall be galvanized steel.

The gate is designed to withstand a maximum operating head of twenty (20) feet on the check side and twenty (20) feet on the gate side to the high water level.

The manufacturer's name and size of dimensions shown are for reference only. Other approved make may be used.

DESIGNED BY	DATE	SCALE
CHECKED BY	DATE	SCALE
STATE HIGHWAY COMMISSION OF KANSAS		
AUTOMATIC FLAP GATE		
STD. NO. 511	10-6-69	