



Figure 1-17
Rectangular Opening, 100 Ft. Seating Head; 30 Ft Unseating Head –
Heavy-Duty Cast Iron Slide Gate (Model 100-30)

This is a design class head rating. Many gate sizes have a higher actual head rating. Please contact Hydro Gate's Engineering Department for maximum head ratings.
 NOTE: G and H are installation clearance dimensions.

Rectangular Opening – Heavy-Duty Cast Iron Slide Gate (Model 100-30)

Gate Size Width x Height	Flange Back Dimensions (In.)							
	Width (A)	Centerline to Bottom of Frame Flange (B)	Centerline to Slide Full Opening Position (C)	Centerline to Top of Frame (D)	Back Mounting Flange to Centerline of Stem (E)	Overall Thickness of Gate (F)	Installation Clearance (G)	Installation Clearance (H)
18 x 30	26.00	19.00	51.25	32.00	7.87	11.37	38.00	30.00
24 x 12	30.00	10.00	23.37	13.50	6.50	8.00	42.00	17.00
24 x 18	30.50	13.00	32.62	32.19	6.75	9.00	42.00	20.00
24 x 30	32.00	19.00	52.12	53.25	7.75	11.25	44.00	26.00
24 x 42	32.00	25.00	70.00	46.00	8.25	11.25	44.00	38.00
24 x 48	32.00	28.00	79.12	52.00	8.00	10.25	44.00	41.00
30 x 24	36.50	16.00	42.00	26.00	7.75	9.50	52.00	27.00
30 x 36	38.00	22.00	61.12	64.50	8.00	10.25	54.00	33.00
30 x 48	38.00	28.00	79.50	52.00	9.25	12.25	54.00	41.00
36 x 18	42.50	13.00	35.00	36.00	7.25	10.25	58.00	24.00
36 x 30	44.00	19.00	52.50	54.25	8.75	10.50	60.00	33.00
36 x 48	44.00	28.00	79.50	82.75	9.00	12.25	60.00	41.00
36 x 60	46.00	35.25	100.12	101.37	9.00	12.25	62.00	47.00
36 x 72	46.00	41.00	115.50	77.00	10.00	14.00	62.00	53.00
36 x 84	46.00	47.50	136.12	89.00	10.25	14.50	63.00	57.00
36 x 96	47.00	54.00	153.00	101.00	10.50	15.00	63.00	64.00
42 x 30	50.00	19.00	52.50	55.25	9.00	12.00	66.00	30.00
42 x 36	50.00	22.00	63.00	64.50	8.00	10.25	66.00	33.00
42 x 60	52.00	35.50	99.75	64.00	10.00	13.75	68.00	47.00
48 x 24	56.00	16.00	44.25	46.50	8.75	12.00	76.00	29.00
48 x 30	56.00	19.00	53.87	56.12	8.75	10.75	72.00	29.00
48 x 36	56.00	22.87	63.75	64.25	9.00	13.50	72.00	35.00
48 x 54	57.00	32.75	90.00	93.25	9.56	14.00	74.00	44.00
48 x 72	58.00	41.50	118.25	77.00	10.25	14.50	76.00	53.00
48 x 84	58.00	47.50	136.12	88.00	10.75	14.12	76.00	60.00
54 x 36	62.00	23.00	64.00	65.00	9.50	14.25	78.00	35.00
54 x 72	64.00	41.75	117.50	121.00	10.50	15.00	80.00	53.00
60 x 30	70.00	20.50	54.25	57.25	10.50	16.00	90.00	32.00
60 x 36	68.00	22.50	64.75	64.50	9.25	15.50	84.00	32.00
60 x 48	70.00	29.50	81.87	85.25	10.50	17.00	88.00	41.00

Rectangular Opening – Heavy-Duty Cast Iron Slide Gate (Model 100-30) – continued

Gate Size Width x Height	Flange Back Dimensions (In.)							
	Width (A)	Centerline to Bottom of Frame Flange (B)	Centerline to Slide Full Opening Position (C)	Centerline to Top of Frame (D)	Back Mounting Flange to Centerline of Stem (E)	Overall Thickness of Gate (F)	Installation Clearance (G)	Installation Clearance (H)
60 x 72	70.00	41.50	118.62	77.00	10.50	16.00	90.00	53.00
60 x 84	70.00	47.75	137.12	89.00	11.87	16.75	90.00	59.00
60 x 120	72.00	66.25	192.00	125.00	13.00	19.50	92.00	80.00
72 x 48	82.00	29.50	82.25	52.00	10.50	17.00	102.00	43.50
72 x 84	83.00	47.50	137.12	88.00	11.25	18.50	104.00	60.00
84 x 60	94.00	35.50	101.32	64.00	11.00	19.75	114.00	48.00
84 x 72	94.00	41.50	119.75	77.00	11.00	20.00	114.00	54.00
96 x 48	104.75	29.25	79.75	52.00	9.75	15.25	126.00	42.00
96 x 60	106.00	35.75	98.50	64.00	10.25	15.50	126.00	48.00
96 x 72	106.00	41.75	118.75	77.00	10.50	19.75	126.00	54.00
96 x 84	107.00	47.75	134.12	89.00	10.75	19.75	126.00	60.00
96 x 120	108.00	66.00	186.37	125.00	13.00	17.25	128.00	78.00
108 x 72	120.00	42.75	120.25	77.00	13.25	22.00	138.00	54.00
108 x 96	120.00	54.25	151.50	101.00	13.37	19.87	140.00	66.00
120 x 72	132.00	42.25	120.50	77.00	13.25	24.00	150.00	54.00
120 x 84	131.00	48.00	138.75	88.00	11.75	23.75	152.00	60.00
144 x 96	156.00	54.00	153.75	101.00	14.25	25.00	176.00	66.00