

PARSHALL FLUME GENERAL FLOW RANGE

Following is a list of general flow ranges and equations for the most common sizes of Parshall flumes. The actual capability of the flume may reach somewhat higher or lower than listed below.

Conversions		
CFS x 448.8 = GPM	MGD x 694.4 = GPM	MGD x 1.55 = CFS
GPM ÷ 448.8 = CFS	GPM ÷ 694.4 = MGD	CFS x 0.646 = MGD

Throat Size	Flow Range – GPM	Equation $Q = CFS$ ($H = \text{Head in Feet}$)
1" *	2 – 90	$Q = .338 H^{1.55}$
2" *	5 – 175	$Q = .676 H^{1.55}$
3"	15 – 830	$Q = .992 H^{1.547}$
6"	25 – 1,750	$Q = 2.06 H^{1.58}$
9"	45 – 3,900	$Q = 3.07 H^{1.53}$
12"	160 – 7,200	$Q = 4.0 H^{1.522}$
18"	230 – 11,000	$Q = 6.0 H^{1.538}$
24"	295 – 14,800	$Q = 8.0 H^{1.55}$
30"	365 – 18,700	$Q = 10.0 H^{1.559}$
36"	435 – 22,600	$Q = 12.0 H^{1.566}$
42"	500 – 26,530	$Q = 14.0 H^{1.572}$
48"	565 – 30,490	$Q = 16.0 H^{1.578}$
60"	700 – 38,420	$Q = 20. H^{1.587}$

*1" & 2" Parshall may clog and are not recommended for sanitary waste.

Please consult your local representative or contact Plasti-Fab, Inc., PO Box 100, Tualatin, Oregon, 97062.

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