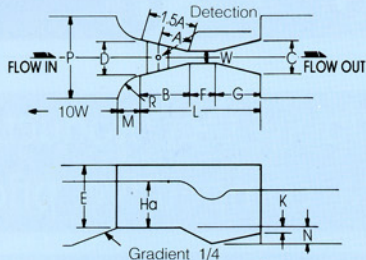


# Open Chanel Flow Meter

**HF-800**

## PARSHALL FLUME



## LEVEL - FLOW CALCULATION

SIZE	FLOW RATE(m <sup>3</sup> /h)
1 in	$0.173 \times Ha^{1.55}$
2 in	$0.346 \times Ha^{1.55}$
3 in	$0.507 \times Ha^{1.55}$
6 in	$0.95 \times Ha^{1.58}$
9 in	$1.677 \times Ha^{1.53}$
1-8ft	$\frac{13.36}{115.66^6} W \cdot Ha^{1.90P}$ $P=W^{0.026}$
60°	$0.577 \times K1 \times H^{5/2} : K1=83 + \frac{0.0139}{H^{3/4}}$
90°	$K2 \times H^{5/2} : K2=81.2 + \frac{0.24}{H} + 43.041 \times (\frac{H}{0.6} - 0.09)^2$

Ha : LEVEL(cm)      W : THROAT SIZE(cm)

## PARSHALL FLUME DIMENSIONS TABLE

SLOT SIZE (mm)	1 in (25.4)	2 in (50.8)	3 in (76.2)	6 in (152.4)	9 in (228.6)	1 ft (304.8)	1 1/2 ft (457.2)	2 ft (609.4)	3 ft (914.4)	4 ft (1219.2)	5 ft (1524.0)	6 ft (1828.0)	7 ft (2133.6)	8 ft (2433.4)	
FLOW RANGE (m <sup>3</sup> /h)	MIN	0.1	0.1	1	1	1	11	15	43	62	133	163	256	306	357
SIZE	MAX	33	100	194	398	907	1641	2508	3375	5138	6923	8723	10550	12380	14220
	A	140	245	311	414	587	914	965	1016	1118	1219	1321	1422	1524	1626
	B	230	360	457	610	864	1343	1419	1496	1645	1794	1943	2092	2241	2391
	C	75	118	178	394	381	610	762	914	1219	1524	1829	2134	2438	2743
	D	145	196	259	397	575	845	1026	1207	1572	1937	2302	2667	3032	3397
	E	316	440	610	610	762	914	914	914	914	914	914	914	914	914
	F	95	120	152	305	305	610	610	610	610	610	610	610	610	610
	G	135	200	305	610	457	914	914	914	914	914	914	914	914	914
	K	25	25	25	76	76	76	76	76	76	76	76	76	76	76
	N	57	57	57	114	114	229	229	229	229	229	229	229	229	229
	R	240	240	406	406	406	508	508	508	508	610	610	610	610	610
	M	100	180	305	305	305	381	381	381	381	457	457	457	457	457
	P	330	500	768	900	1080	1492	1676	1954	2223	2711	3086	3442	3810	4172
L	525	680	914	1525	1626	2867	2943	3019	3169	3318	3467	3616	3765	3915	

## LEVEL - FLOW RATE CALCULATION TABLE

Head (cm)	1 in (m <sup>3</sup> /HR)	2 in (m <sup>3</sup> /HR)	3 in (m <sup>3</sup> /HR)	6 in (m <sup>3</sup> /HR)	9 in (m <sup>3</sup> /HR)	12 in (m <sup>3</sup> /HR)	60° (Weir)	90° (Weir)	Head (cm)	1 in (m <sup>3</sup> /HR)	2 in (m <sup>3</sup> /HR)	3 in (m <sup>3</sup> /HR)	6 in (m <sup>3</sup> /HR)	9 in (m <sup>3</sup> /HR)	12 in (m <sup>3</sup> /HR)	60° (Weir)	90° (Weir)
1	.17	.34	.5	.94	1.67	2.26	.02	.06	24	23.84	47.68	69.87	144.03	216.89	282.93	81.12	146.17
2	.5	1.01	1.48	2.84	4.84	6.49	.16	.31	25	25.4	50.8	74.44	153.62	230.87	301.03	89.83	162.66
3	.94	1.89	2.78	5.38	9	12.01	.44	.83	26	26.99	53.98	79.1	163.44	245.15	319.51	99.09	180.33
4	1.48	2.96	4.34	8.49	13.98	18.6	.92	1.67	27	28.61	57.23	83.87	173.49	259.72	338.37	108.89	199.24
5	2.09	4.19	6.14	12.08	19.67	26.1	1.6	2.88	28	30.27	60.55	88.73	183.75	274.59	357.59	119.25	219.45
6	2.78	5.56	8.14	16.11	26	34.44	2.53	4.5	29	31.97	63.94	93.69	194.22	289.73	377.17	130.19	240.99
7	3.53	7.06	10.34	20.55	32.92	43.52	3.72	6.58	30	33.69	67.39	98.75	204.91	305.16	397.1	141.7	263.93
8	4.34	8.68	12.72	25.38	40.38	53.31	5.2	9.15	31	70.9	103.9	151.81	320.86	417.39	553.8	188.32	344.22
9	5.21	10.42	15.27	30.57	48.36	63.76	6.98	12.25	32	74.48	109.14	158.91	336.83	438.01	576.51	201.66	366.44
10	6.13	12.27	17.98	36.11	56.82	74.83	9.09	15.9	33	78.12	114.47	166.21	353.06	458.97	601.66	216.66	391.66
11	7.11	14.23	20.85	41.98	65.74	86.49	11.54	20.16	34	81.82	119.89	173.72	369.56	480.27	627.33	231.66	416.66
12	8.14	16.28	23.86	48.17	75.1	98.71	14.34	25.05	35	85.58	125.4	181.42	386.32	501.89	653.66	246.66	441.66
13	9.21	18.43	27.01	54.67	84.89	111.47	17.52	30.61	36	89.4	131	189.32	403.34	523.83	680.33	261.66	466.66
14	10.34	20.68	30.3	61.46	95.08	124.76	21.08	36.87	37	93.28	136.68	202.41	420.61	546.1	707.66	276.66	491.66
15	11.5	23.01	33.72	68.54	105.67	138.54	25.05	43.86	38	97.21	142.45	209.7	438.12	568.68	735.66	291.66	516.66
16	12.71	25.43	37.27	75.89	116.63	152.82	29.44	51.63	39	101.21	148.3	217.17	455.89	591.56	764.66	306.66	541.66
17	13.97	27.94	40.94	83.52	127.97	167.56	34.26	60.21	40	105.24	154.24	224.83	473.89	614.76	793.66	321.66	566.66
18	15.26	30.53	44.73	91.42	139.66	182.76	39.52	69.63	41	109.25	160.25	232.67	492.14	638.26	822.66	336.66	591.66
19	16.6	33.2	48.64	99.57	151.71	198.4	45.24	79.94	42	113.28	166.35	240.6	510.62	662.06	851.66	351.66	616.66
20	17.97	35.94	52.67	107.98	164.1	214.48	51.43	91.17	43	117.33	172.53	248.61	529.34	686.15	880.66	366.66	641.66
21	19.38	38.77	56.81	116.63	176.81	230.98	58.1	103.37	44	121.4	178.79	256.66	548.29	710.54	909.66	381.66	666.66
22	20.83	41.67	61.06	125.53	189.86	247.9	65.26	116.57	45	125.48	185.13	264.66	567.47	735.21	938.66	396.66	691.66
23	22.32	44.64	65.41	134.66	203.22	265.22	72.93	130.82									

In the interests of improving and updating its equipment, HME reserves the right to alter specifications to equipment at any time.