

Reinforced Fiberglass Polymer

Permanent Flumes

Insert/Invert Flumes

Cutback/Exit Flumes

Palmer-Bowlus
flumes are designed and
manufactured to meet or
exceed the needs of the
wastewater and chemical
industry. With over 35 years of
manufacturing fiberglass
products and providing our
customers quality service

Plastics has developed an enviable reputation. Our flumes include features and benefits such as the following:

The Palmer-Bowlus trapezoidal throat design is used which assures a high velocity critical flow, translating into minimal flow restriction, low energy loss and better measuring accuracies at both low flow and peak capacity.

- The smooth gelcoated fluid contact surfaces decreases friction and prevent solids buildup.
- All flumes are made with chopped and sprayed fiber-glass (minimum 30% content by weight) and reinforced polyester materials assuring a long maintenance free performance.
- A one-piece molded construction makes installation quick, easy, and cost effective.
- ← Integral 2 1/2" flanges,
  anchor clips and right angle

tie-bars are permanently attached for added strength and rigidity during shipping. installation and usage.

- A wide selection of industry standard optional measuring and interface equipment are available.
- All components are made with corrosion resistant materials for maximum application performance.

# Sizas Camadillas & Walnima

Flume Size	Approximate	e Maximum	Discharge	Head at Approx. Max.
"D" Dimension	*CFS	*MGD	*GPM	Head at Approx. Max. Discharge 3.0 in.
4"	0.12	.07	54	3.0 in.
6"	0.30	0.19	132	4.2 in.
8"	0.69	0.45	310	6.0 in.
10"	1.12	0.72	502	7.2 in.
12"	1.67	1.08	752	8.4 in.
15"	3.09	1.99	1385	10.8 in.
18"	4.61	2.98	2071	12.6 in.
217	7.04	4.55	3161	15.0 in.
24"	9.47	6:10=	4248	16.8 in.
27	13.09	8.44	5873	19.2 in
30"	16.52	10.66	7413	21.0 in.
	7 <u>219</u> .077	19/87	13451	27:0 in.
421	26.777	28.29	19645	31.4 in.

Perhanent Insertitivert Exitoritach

Ship	ping Weig	hts
10 lb.	7 lb.	5 lb.
15 lb.	10 lb.	8 lb.
20 lb.	15 lb.	12 lb.
25 lb.	20 lb.	17 lb.
33 lb.	25 lb.	20 lb,
50 lb.	33 lb.	30 lb.
75 lb.	50 lb.	45 lb.
125 lb.	75 lb.	-65 lb.
150 lb.	90 lb.	80 lb.
	110 lb.	100 lb.a
1.75	130 lb.	115 lb.
	175 lb.	160 lb.
	200 lb	185 lb.

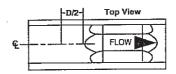
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Typically used in new construction or when it is possible to cement a flume into place between pipe ends. The upstream approach section provides for a smooth flow into the flume. Various optional accessories are sometimes required for installation.

(See the back page for details and options available.)

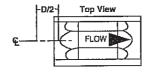


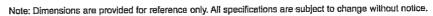
### Exit / Cutback Flume

Generally exit flumes are used within the discharge pipe of a manhole. This type of flume maximizes the space for accurate upstream monitoring and sampling.

#### inseri Flumes

This flume is designed to be placed into an existing half section of pipe. The O.D of this flume should fit the I.D. of the pipe section.





D	D/2	L <sub>1</sub>	L <sub>2</sub>	Н	R	Υ	С	T <sub>1</sub>	Т2
4"	2"	17"	10"	6"	2/3"	1 13/16"	4 5/8"	3/16"	3/16"
6"	3"	25"	14"	8"	1"	2 13/16"	6 5/8"	3/16"	3/16"
8"	4"	33"	18"	10"	1 1/3"	3 13/16"	8 5/8"	3/16"	3/16"
10"	5"	41"	22"	12"	1 2/3"	4 13/16"	10 5/8"	5/16"	3/16"
12"	6"	49"	26"	14"	2"	5 13/16"	12 5/8"	3/16"	3/16"
15"	71/2"	61"	32"	17"	2 1/2"	7 5/16"	15.5/8"	3/16"	3/16"
18"	9"	73"	38"	20"	.3"	8 13/16"	18 5/8"	3/16"	3/16"
21"	10 1/2"	85"	44"	23"	3 1/2"	10.5/16"	21.5/8"	1/4"	3/16"
24"	12"	97"	50"	26"	4"	11 13/16"	24.5/8"	1/4"	3/16"
27"	13:1/2"	109"	56"	29".	4.1/2"	13 5/16"	27 5/8"	1/4"	3/16"
30"	15"	121"	62"	32"	5"	14 13/16"	30,5/8"	1/4"	3/16"
36"	18"	145"	74"	38"	6".	17, 13/16"	36 5/8"	5/16"	3/16"
42"	21"	169"	86"	44"	7	20:13/16	42.5/8"	5/16"	3/16"

FRP Tie-bai (example)

30°

T2 = Wall Thickness

FRP Anchor Clips

FLOW

H

# Engineering Deals 240 miles 240 miles

#### Head vs. Flow Sizing

For measurement accuracy use flume sizes to match actual flows. Sizing to nominal pipe size is not always correct. Optimum flow readings are obtained by selecting a flume size that has flow rates between Maximum and Minumum Discharge rates. Typically oversized flumes reduce the accuracy of the flow projections.

When the pipeline size is larger than the flume, the approach section on the permanent flume is needed to smooth the flow before it reaches the point of measurement.

#### Pipeline Design

Incoming flows should be non-turbulent and be lower than the velocity in the throat of the flume. The upstream pipeline grade should be designed to be equal to or less than 2%.

Downstream fluid depths must be less than 90% of the upstream depth. Any hydraulic jumps must not occur in the flume throat but downstream from the flume throat.

A depth of flow measuring device should be located at a point equal to 1/2 the diameter of the pipe, upstream from the flume entrance.

#### **Options**

- Embedded staff Gauge: Calibration units 1" & 1/4" increments
- Stilling wells in 12", 10", 8", and 6" I.D.can be supplied attached Material: Fiberglass
- Ultrasonic level sensor instrumentation support bracket Material: stainless steel
- Bubbler tube, insert molded and fitted to connect with standard flow meter tubing Material: stainless steel
- NPT connections available for remote stilling well attachment Material: Fiberglass
- 2 1/2" wide standard end flanges Material: Flberglass
- Bulkheads available for flumes smaller than adjoining pipe Material: Fiberglass
- Wide variety of adapters for inlet and outlet pipeline connections Material: Fiberglass

### **Customized Flumes**

- Recessed cavities can be molded for below surface mounting of sensing instruments
- High-Temp and chemical resistant fiberglass polyester resins are available.
- Special flume walls with thicker flberglass laminations are available.

# INSTALLATION INSTRUCTIONS FOR PERMANENT TYPE PALMER-BOWLUS FLUMES WHICH ARE GROUTED IN PLACE

PERMANENT TYPE PALMER-BOWLUS FLUMES ARE TYPICALLY GROUTED IN PLACE BETWEEN TWO SECTIONS OF PIPE HAVING THE SAME DIAMETER AS THE FLUME. IN EXISTING PIPELINES A SECTION OF PIPE EQUAL TO THE LENGTH OF THE FLUME IS REMOVED AND REPLACED WITH THE FLUME.

FLUME SHOULD NOT BE PLACED AT RIGHT ANGLES TO FLOWING STREAMS SUCH AS IN TURNOUTS UNLESS THE FLOW IS EFFECTIVELY STRAIGHTENED AND UNIFORMLY REDISTRIBUTED BEFORE IT ENTERS THE FLUMES. SURGES AND WAVES OF ANY APPRECIABLE SIZE SHOULD BE ELIMINATED AND THE FLOW LINES SHOULD BE ESSENTIALLY PARALLEL TO THE FLUME CENTERLINE. ALSO, THE FLOW AT THE FLUME ENTRANCE SHOULD BE FREE OF TURBULENCE IN THE FORM OF VISIBLE SURFACE BOILS. TRANQUIL FLOW CHARACTERISTICS IS A MUST IN ALL CASES.

WHEN INSTALLING FLUME, THE INVERT (INSIDE BOTTOM MOST POINT) SHOULD BE USED AS A REFERENCE. THE INVERT OF THE FLUME MUST BE LEVEL IN BOTH LONGITUDINAL AND TRANSVERSE DIRECTIONS. THE PARALLEL SIDEWALLS MUST BE PLUMB. FLUME SHOULD BE SET ON A SOLID FOUNDATION TO PREVENT SETTLEMENT OR HEAVING. FRP ANCHOR CLIPS ARE PROVIDED FOR ATTACHING WIRE TO THE FLUME TO PREVENT THE FLUME FROM FLOATING OR SHIFTING DURING STAGE POURING OF FLOWABLE GROUT.

INTERNAL BRACING MUST BE PROVIDED ON THE PERPENDICULAR SIDEWALLS OF THE FLUME BY THE INSTALLER TO PREVENT ANY UNDUE STRESS OR DEFORMATION DURING BACKFILLING WITH FLOWABLE GROUT OR OTHER MATERIALS. FLOWABLE GROUT BACKFILL SHOULD BE STAGE POURED IN 6 INCH DEEP INCREMENTS ("LIFTS") WITH MINIMAL USE OF A VIBRATOR. THE FIRST 6 INCH LIFT SHOULD BE SLOWLY POURED ON ONE SIDE SO THAT THE GROUT WILL FLOW UNDER THE FLUME TO THE OTHER SIDE THEREBY HELPING TO ELIMINATE ANY VOID AREAS UNDER THE RAISED TRAPAZOIDAL FLOOR SECTION. EACH LIFT MUST BE ALLOWED TO SET UP BEFORE THE NEXT STAGE IS PURED.

ALL FLUMES ARE SUPPLIED WITH EXTRUDED FRP ANGLES WHICH ARE BOLTED TO THE TOP FLANGES TO MAINTAIN DIMENSIONAL INTEGRITY DURING SHIPMENT AND INSTALLATION. ALTHOUGH THESE ANGLES CAN BE REMOVED AFTER INSTALLATION IS COMPLETE, KENCO RECOMMENDS LEAVING THE ANGLES IN PLACE TO MAINTAIN THE FLUME'S DIMENSIONAL CHARACTERISTICS IN CASE THE GROUT SHRINKS.

#### NOTES:

- 1. IF YOUR FLUME CANNOT OR WILL NOT BE GROUTED IN PLACE, IT IS PROBABLY FURNISHED WITH FRP END FLANGES AND/OR FRP PIPE STUBS HAVING AN O.D. EQUAL TO THE PIPE IN WHICH IT IS TO BE INSTALLED.
- 2. FLUMES WITH END FLANGES (OR NOZZLES) ARE TYPICALLY BOLTED TO PIPE FLANGES.
- 3. FLUMES WITH FRP PIPE STUBS TYPICALLY REQUIRE A "FASTENER" OF SOME TYPE TO CONNECT THE PIPE STUBS TO THE EXISTING SECTIONS OF NONFLANGED PIPE. THE MOST COMMON "FASTENER" IS A FLEXIBLE PVC COUPLING WITH STAINLESS STEEL BANDS, I.E., FERNCO COUPLING (ALSO KNOWN AS A NO HUB CONNECTOR). IF YOUR FLUME IS FURNISHED WITH FERNCO COUPLINGS, INSTALL PER MANUFACTURER'S INSTRUCTIONS.

Table 14-1:

8 in. Palmer-Bowlus Flume Discharge Table with Head in Feet

Table 14-3;

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	0.0392 17.67 0.08	0.0447 20.08 0.0447 20.08 0.0508 22.78 0.0572 25.67	0,14 0,0992 17,67 0,15 0,0447 20.08 0,17 0,0572 28.07 0,18 0,18 0,01641 28.03	0.14 0.0392 17.67 20.08 0.15 0.0447 20.08 0.15 0.0447 20.08 0.15 0.0447 20.08 0.17 20.08 0.17 20.08 0.17 20.08 0.17 20.08 0.17 20.08 0.17 20.08 0.17 20.08 0.17 20.08 0.17 20.08 0.17 20.08 0.0058 0.10 0.0074 39.03 0.17 20.08 0.17 20	0.14 0.0392 77.67 0.15 0.0447 20.09 0.16 0.0447 20.09 0.16 0.052 22.78 0.17 0.0572 25.67 0.18 0.0641 22.03 0.0074 22.03 0.0074 22.03 0.0074 32.03 0.0074 32.03 0.0075 32.03 0	0.0447 20.08 0.0447 20.08 0.0572 25.07 0.0572 25.07 0.0714 32.03 0.0714 32.03 0.0710 86.16 0.0870 86.16 0.0853 46.58 0.1128 46.58

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212.1 222.3 232.8 243.4 254.2

MGD

MGD

GPMI

CFS

8 in. Palmer-Bowlus Flume Discharge Table with Head in Feet Table 14-2:

MGD	0.0581 0.0539	0,0701	0.0836	0.0984	0.1147 0.1233	0,1322 0,1414	0,1508	0.1704	0.1907	
GPM	40.31	48.70 53.24	58,03 / 63.07	68,35 73.85	79.61	91.78	1115	118,3	132.4	
CFS	0.0989	0.1085	0.1293	0.1523	0.1774	0.2045	0.2334	0.2637	0.2951	
Head (feet)	0.20	0.27	0.23	025	72.0	0.29	0.31	0.33	50 50 50 50 50 50 50 50 50 50 50 50 50 5	_
MGD				0,0101	0.0155	0,0219	0.0293	0,0377	0.0424 0.0473	0.0050
GPM				7,016	10.78	15.22	2035	26.20	32.84	74.05
CFS			CONTRACTOR ASSESSMENT	0.0155	0,0240	0,0339	0,0453	0,0564	0,0658	518970
Head (feet)	0.00	0.03	50.0	0.07	60.0 0.00	0.17	0.13	0.14 5.55	0.16	- R

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Table 14-4: 10 in. Palmer-Bowlus Flume Discharge Table with Head In Feet

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МСО	0.1992	0.2742	0.2374	0.2510	0,2651	0.2797	0.2947	0.3102	0.3262	0.3426	0.3595	0.3769	0.3946	0.4128	0,4314	0,4504	1,4697	0.4894	0.5085	0.5298	0.5504	0.5713	0.5925	0.6138	0.6354	0.6572	0.6791	0.7012	0.7234
	-	30	-		-	32	_		ر د د		3		_	3	_		_		_		_				_				
GPM	138.3	145.3	164.8	1743	184	1942	204.7	2154	226.5	237.8	249.7	2817	274.0	- 286.7	299.6	812,7	326.2	339.9	353.8	967.9	382.2	396.7	411.4	426.3	441,2	456.3	471.6	486.9	502.3
CFS	0.3083	0.3272	0.3673	0,3884	0,4102	0.4328	0.4560	0.4800	0.5047	0.5302	0.5563	0.5831	0.6106		0.6675	0.6968	0.7268	0,7579	0,7883	0.8197	0.8517	0.8840	0.9167	. 0.9498	0.9832	1.017	.03	1.085	1.119
Head (feet)	0.31	0.32	0.34	0.35	0.36	0.97	0.38	0.39	0.40	0.4	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0,50	0	0.52	0.53	0.54	0.35	0,55	0.57	0.58	0.59	0.60
MGD				行の対象が		第二次	Care Control of Contro	<b>建</b> 建 的 原则	Reference and the second	0.0336	0,0388	0.0443	0.0501	0.0562	0.0626	0.0693	0.0763	0.0837	0.0913	0.0893	0,1076	0.1162	0.1252	0.1346	0.1443	0.1545	0.1650	0.1780	0,1874
СРМ		100 miles	The second secon				Charles and Charle	· · · · · · · · · · · · · · · · · · ·	STATE OF THE STATE	23,34	26.96	30.78	34.82	39.05	43.50	48,15	53.02	58.10	63.40	68.93	74.69	80.70	86,95	93.46	100,2	107.3	114.6	122.2	130.1
CFS		高 · · · · · · · · · · · · · · · · · · ·	A STANDARD S				Control of the Contro	La Contraction	Committee Committee	0.0520	0.0601	0.0688	0.0776	0.0870	0.0969	0.1073	0.1181	0,1294	0.1413	0.1536	0,1664	0.1798	0,1937	0.2083	0,2233	0.2390	0.2554	0.2723	0.2900
Head (feet)	0.01	20.0	9.0	0.05	90'0	0.07	0.08	60	0.10		0,12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0,22	0.23	0.24	0.25	0.26	0.27	0.28	0.23	0.30

0.2842 0.2842 0.2846 0.3816 0.4395 0.4461 0.4963 0.5602 0.5603 0.5761 0. 444.5 486.5 486.5 486.8 486.8 686.8 686.9 683.6 682.9 672.4 772.4 782.2 207.8 218.6 207.2 207.2 206.0 206.0 207.4 200.3 300.5 GPM 0.4621 0.4871 0.5518 0.5055 0.5055 0.5055 0.5065 0.7394 0.7394 0.7394 0.7394 0.7396 0.9074 0.9074 1.24 1.24 1.203 CFS 0.1253 0.1352 0.1455 0.1662 0.1673 0.1905 0.2026 0,2282 0.2416 0.1064 0.0449 0.0514 0.0582 0.0653 0.0975 0.0728 0.0807 ではいる 0.2152 MGD 61.76 73.88 60.32 60.32 60.32 60.33 116.1 116.1 116.1 124.1 124.1 140.7 140.7 166.4 166.4 17.3 GPM 0.2947 0.2947 0.3330 0.3331 0.3737 0.3951 0.4171 0.0886 0.0796 0.01011 0.1127 0.1376 0.1376 0.1760 0.1760 0.1760 0.1760 0.1760 0.1760 0.1760 0.1760 0.1760 0.1760 0.1760 0.1760 0.1760 0.1760 0.1760 0.1760 GES 0.18 0.18 0.20 0.22 0.23 0.24 0.25 0.29 0.29 0.29 0.30 0.30 0.03 0.04 0.05 0.06 0.08 0.08 100

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Table 14-5: 12 in. Palmer-Bowlus Flume Discharge Table with Head in Feet

Table 14-6: 15 in. Palmer-Bowlus Flume Discharge Table with Head in Feet

18 in. Palmer-Bowlus Flume Discharge Table with Head in Feet

Table 14-7:

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Med	0.5455	0.5677	0.5913	0.637	0.6613	0,6861	0.7113	0.7372	0,7636	0.7905	0.8780	0.8461	0,8747	0.9039	0.9337	0,9640	0.9949	1,026	1.058	1.091	1,124	1.157	1.191	1,226	1.261	1.207	1,333	1.369	1,466	1.443	1.480	1.518	1,557	1,595	1.634	1.673	1.73	1.752	1.792	1,832	1.872	1.913	1.953	1,994
GPM	378.8	00 00 min	.609.9 A26.0	212 F	459.2	476.4	494.0	611.9	530.2	0.690	568.1	987.5	607.4	627.7	7	669.4	690.9	712.7	734.9	767.5	780.4	603.7	827.4		875.7	900.4	925,3	9:056	976.2	1002	1028	1054	1081	1108	135	162	1189	127	1244	1272	1300	228	1357	1385
CFS	0.8441	0.6783	0,9193	0.9886	1.023	1.062	1.101		1,181	1.223	1.266	1,309	1,353	1.399.	1,445	1.492	1.539	1,588	1.637	, 1,688	1.739	1,781	1.844	1.897	1,951	2.006	2.062	2118	2.175	2.233	2291	2,349	2.409	2.468	2.528	-2,589	2.650	2.71	2.773	2,835	2.897	2.960	3.023	3,086
Head (feet)	0.46	0.47	0.48	50.50	0.51	0,52	0.53	154	0,55	0.58	0.57	0.68	0.59	0.60	0.61	0.62	0.63	0.64	0.65	99'0	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.8 18.0	0.82	0.83	0,84	0.83	0.86	0.87	8	0.89	860
MGD	ない。	The state of the state of			A STATE OF THE STA	関の正常の		The state of the s	10 Company 20 Common		And the second second second second	が表示が	0.0703	0,0788	0,0878	0.0971	0.1089	0.1170	0.1276	0,1385	0.1499	0.1616	0.1738	0,1863	0.1893	0.2126	0.2263	0.2405	0.2550	0.2699	0.2852	0,3010	0.3171	0,8337	0.3507	0.3682	0.3860	0,4043	0.4231	0.4423	0.4620	0.4822	0.5028	0.5239
GPW	北京 出る いち	A CONTRACTOR OF THE PARTY OF TH		一	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			TO BE SEED OF THE POST OF THE		The Charles and the second	が記録を	48.81	54.73	60.94	67.43	74,21	81,26	88.59	96.20	104.1	1122	120.7	129.4	138,4	147.6	157.2	167.0	177.1	167.4	198.1	209.0	250.2	231.7	243.6	255.7	268.1	280.8	293.8	307,2	320.8	334.8	349.1	363.8
CFS				- 10 10 10 10 10 10 10 10 10 10 10 10 10		- 新華					2000	1000年100日	0.1088	0.1220	0.1358	0.1502	0.1653	0.1811	0,1974	0.2144	0.2319	0,2501	0.2669	0.2883	. 0.3083	0.3289	0.3502	0,3720	0.3945	0.4176	0.4413	0,4657	0,4907	0.5164	0.5427	0,5696	0.5973	0.6256	0.6547	0,6844	0,7149	0,7460	0.7780	0.8106
Head (feet)	. P.0.0	0.02		0.04	900	200	0.08	BO:0	0.10	F. 0	0.12	0.	0.14	0.15	0.16	0.17	81.0	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0,26	0.27	0.28	62.0	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0,40	0.41	0.42	0.43	0.44	0.45

MGD	TP7447	g }	1474	0.8260	0.00944 0.8830	0.9723	0.9421	0.9726	1.04	1.035	1.068	1 124	7 2	273	238	1.274	1.310	1.348	1.385	1.424	1,403	- COC-	1.584	1.625	1.667	1.710	1,753	ं 797. - 1,744	1.641	- CEB -	1978	2.024	2.071	2.119	2 215	2.064	2.313	2.363	2.413	2.463	2513	2.616	2,667	2,719
GPM	517.1	535.6	539.4	593.2	613.1	633.5	654.2	675.4	697.0	7.78.9	784.3	787.4	011.0	835.1	859.7	884.6	910.0	935.8	1705	100 A	1043	107	<u>=</u>	1129	128	187	727	1970	340	1341	1979	1406	1438	147	1538	1572	1606	164	167:	1710 1717	178	181	1857	1889
CFS	1.152	1.193	1 278	1322	1,366	1.412	1.458	1,505	1,553	1,002 1,002 1,002	1.002	1.754	1.807	1.861	1915	1.971	2.028	2.085	2.24744	2.2U3 2.2Ed	2,325	2.387	2.451	2.515	2,580	2.646	2.713	2 RAG	2.919	2.989	3,060	3.132	3,205	0.275	3,427	3,503	3.579	3.655	3.733	3,811	3 998	4.047	4,127	4.207
Head (feet)	0.51	0,52	200	199	0.56	0.57	85.0	0.59	0.60	5 6	2,02	0.84	0.85	99'0	0.67	0.68	0.69	0.70		0.72	0.74	0.75	0.76	0.77	0,78	0.79	8.6	20.0	0.83	0.84	0.85	0.86	0.87	0.00	0.00	16:0	0.92	0.93	86.0	. 0.95 	0.90	0.98	0.89	1.00
MGD	· · · · · · · · · · · · · · · · · · ·	18 (7 C) 18 (8 C)				が認める	2 4 1 2 4 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6					V1 - V2 / 130	が の の の で の で の の の の の の の の の の の の の	0.1008	0.1116	0.1231	0.1350	0.1474	0,7603	0.1735	0.2016	0.2162	0.2313	0.2468	0.2626	0,2789	0.2956	0.2300	0.3481	0.3665	0.3852	0.4043	0,4239	0.4439	0.4851	0.5064	0.5281	0,5503	0.5729	0.5960	0.0135	0.6681	0.6931	0.7187
GPM		600					Control of the board of the		* 100 m m m m m m m m m m m m m m m m m m					69.83	77.50	65,46	93.76	102.4	311,3	120.6	1400	150.2	160.6	17.4	182.4	193.7	205.3	2:11.7	241.8	254.5	267.5	280.8	294.4	308.2	336.9	351.7	366.7	382.1	397.8	413.9	430.2	463.9	481.3	489.0
CFS					ir A		1,471,000,000		0.01108/38/38/38					0.1557	0.1727	0.1904	0.2083	0.2281	0.2487	0.258/	0.5300 0.3110	0.8346	0.3579	0.3818	0,4064	0,4316	0.4574	25 4 5 C	0.5170	0.5670	0,5960	0.6256	0.6569	0.6868	0.7586	0.7835	0.8171	0,8514	0.8864	0.9221	0,9586	1.034	1.072	1,112
Head (feet)	100	- 8		40 O	Ö	200	0.08	60'0	9.		0.12	2 0		910	110	0.18	91.0	0.20	0.21	0.22	0.20	0.25	0.26	0.27	0.28	0.29	- C-	1000	732	0.34	0.35	0.36	0.37	0.38	UP O	140	0,42	0,43	0,44	0.45		670	0.48	0.50
																																												1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Table 14-7: 18 in. Palmer-Bowlus Flume Discharge Table with Head in Feet (continued)

Table 14-8: 21in. Palmer-Bowlus Flume Discharge Table with Head in Feet

MGD	2.929 2.982
GPW	2034 2071
CFS	4,614
Head (feet)	1.04 1.05
MGD	2,774 2,824 2,876
GPW	1924 1961 1987
CFS	4.288 4.369 4.460
ead eet)	.02 .03

	99.75 0.148 109.15 0.151 109.1 0.151 139.0 0.201 199.6 0.221 193.3 0.284 183.3 0.284 183.3 0.284
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2.745 2.803 2.862 2.921

21 in. Palmer-Bowlus Flume Discharge Table with Head in Feet Table 14-8: (continued)

24 in. Palmer-Bowlus Flume Discharge Table with Head in Feet

Table 14-9:

MGD	3,819	3,949 4,015	4,081 4.148	4.281	4,348	14,484	
GPM	2652 2697	2742 2788	2834	2926	3020 3066	3113 3161 3161	
CFS	Marie Marie Marie Marie	166 180		545 544 544	6.833	6.937 7.043	
VGD Head (feet)	1.15					1.24 1.25	
GPM M			555 845 845		AND THE STREET	2518 3.828 2562 3.890	
CFS GI		湖		200 200 200	6.414 24 8.512 24		809
Head (feet)	165	(E)	100 131	100	製造	翻	10

			,				
MGD	3,819	3.949 4.015	4,081	4,214 4,281	4,348 4.416	4,652	
GPW	2697	2742 2788	2834 2880	2926 2973	3020 3066	3113 3161	
CFS	5,909	6.212	6.315	6.520 6.624	6.728	8.937 7.043	
Head (feet)	1.15		1.13	8 K	22 EZ	1.24 1.25	
Med	3.071	3.19 191	3.25	3.437	3,499	3.626	3,754
GPM	2081	2774	2258	2343	2430	2518 2562	2607
CFS	4 751	4 937	5,031	6.227 5.317	5.512	5,709	5.809
ad set)		8 2	98	6 8	9 9	12	.0

GPM 2.359 2.423 2.487 2.652 0.3319 0.3520 0.3725 0.3936 0.4152 0.4152 0.4826 0.5063 0.5063 0.5547 0.6574 0.6574 154.2 (96.0) (100.7) (203.6) (203.6) (203.6) (203.6) (203.6) (203.6) (304.2) (304.2) (304.2) (402.5) (402.5) (403.6) ( 0.3436 0.3699 0.4851 0.4837 0.4832 0.5146 0.5746 0.6709 0.6709 0.6709 0.7713 0.7713

2.107 2.158 2.257 2.309 2.361

2.323 2.325 2.428 2.482 2.552 2.704 2.702 2.208 3.121 3.121 3.13 3.316 3.316 3.316 3.316

2.120 2.169 2.220 2.271

646.1 871.0 871.0 871.0 1950.6 978.2 106.2 108.2 112.1 115.1

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24 in. Palmer-Bowlus Flume Discharge Table with Head in Feet Table 14-9: (continued)

27 27 in. Palmer-Bowlus Flume Discharge Table with Head in Feet

Talfable 14-10:

													orm		1.355		F-41-24		t or and	
æ		_	,	EV.			3	D.				-	8	6	8	<b>C</b>	2	m	9	7
MC	4.61	4.68	4.76	4.84	491	4,99	5 07	5.15	5.230	5,30	5.38	5.46	5.54	5,62	5.70	5.79	5.87	5.95	6.036	6.11
							1000								經					
GPM	3204	256	300	362	415	469	523	577	632	1887	742	797	1853	606	396	1021	110	Ě	6	1248
						63				673		6-3				-		-	A STATE	`
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<b>-</b>	纖				153				Te Sel					!	順	·				
MGD	3.227	3.290	3,354	3.419	3.484	3.550	3.617	3.684	3,752	3.821	3,890	3.960	4.030	4.101	4.173	4.24	4.31	4.391	4,465	4.539
		_						_	1944 1945	_						-			197	
JPM.	調味	絽	8	74	50	83	<u> 21</u>	23	8	23	5	品	8	8	- 86	#	-86	₽ -	3100	25
<u>.</u>	22	22	R	S	24	2	25	23	92	56	23	27	27	28	R	29	29	믕	E	સ
E	4,993	5.091	5.190	5.290	5,391	5.493	6,696	5.701	5,805	5,912	6.019	6.127	6.236	6.346	6,456	6.558	6.881	6.794	6.908	7.023
	district dis								3.9 3.6 3.6		的 数 数 数 数 数		575		製品		经数 规则	:	(通過 (通過	
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CFS		3.3.861	1,715	1.826		1.941 1.999	16	100	2.188 5.588		3,00		2 564	2.307	2.700	2769	100		000			3.280	7 435		, ,	3.676	3,757	3,925	4,010	4.097	4,184	4.273	of is		i,	4,733	4.925		974	5.222
Head (feet)	150	0.53	0.54	0.56	0.57	0.58	09'0	0,61	0.62	0.64	10.00 E	0.66	0.07	0.69	0.70	0,71	0.72	0.74 0.74	0.76	0.76	0.77	0.78	9 6	0.81	0.82	0.83	0.84 0.84	0.86	0.87	0.88	0.69	0.90	0.92	0.83	0.94		\$9.64		:	9.
MeD			The state of the s			鐵金属品高級		行うないとは、	FOR STATE	TELEPOST DE LA TELEPO	世帯の大学を表現の	知の記録を経過を					0.2439	0.2020	0.3015	0.3218	0.3428	0.3643	0.4000	0.4021	0,4558	0.4800	0.5048		0.5822	Š	9	0.6927	0.7216	0.7511	0.7810	0.6114	0.8739	0.9058	0.9383	0.9713
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CFS							· · · ·		B2 5 6 1 1 2 1 2		-			では、日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日			0.3774	0.4359	0.4666	)	हिल्ली (संबंध	0,5636	0.0977			1	0.7810	0.8601	0.9008	3		1.028	ĕ .	1.162	1.208	1.256			1.452	1,503
He:Head (fei(feet)	00100	0,02 0,02	0.04 0.04	0.06.000	0.070.07	0.08 0.08	0.10 0.10	CHOH	0,12 0.12	0.14 0.14	0.15,0.15	0,15 0.16	0.100,000	0.19 0.19	0.20 0.20	0210.21	0.22 0.22	0.04 D 24	0.25 0.25	0.26 0.26	027.0.27	0.28 0.28	050 050 030 030	0.31 0.31	0.32 0.32	0.83 0.33	0.34 D.34	0.36 0.36	0.37, 0.37		0.39 0.39	0.40 0.40	0.42 0.42	0.43 0,43	0.44 0.44	0.45 0.45	0,40 0,40	0.48 0.48	0.49 0.49	0.50 0.50
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Table 14-10: 27 in. Palmer-Bowlus Flume Discharge Table with Head in Feet (continued)

					Superior A		1										: 1								-		-	5	_		
	<u> </u>	5.740	82	2	6.003	6,092	6.182	272	6.362	.453	6.544	6.836	6.729	6.822	6.915	68 1	7.183	761.7	7.292	7,388	7,483	7.679	7,676	7.772	7.869	7,987	8,064	8.162	8.260	8.359	8,458
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	CFS	8,882	20	701.6	583	426	299	9.7E	844	984	7.13	1.27	541	10,65	5.7	0.84	80	7	1.28	달.	1,58	P	1.88	203	2.18	2,33	2.48	2.63	2.78	2.93	3.03
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	MGD	3,440	3.5	n n	3,64	3,709	3,778	3,848	3.919	3.990	4.062	4.135	4.20	4 283	4.35	4.43	4.511	4.588	4.666	4.744	4.82	4.904	4.98	5,086	5.14	5.231	5.3	6,398	5.48	5.56	5,654
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	CFS	5,323	426	2.628	.633	.739	3.B46	.95	3.064	8.174	6.286	39	6,512	3.62	7.	3.88	9.87	7,098	7.21	ž	7.46	7.58	7.7	7.838	7.98	808	122	8,352	8.48	8.615	8.748
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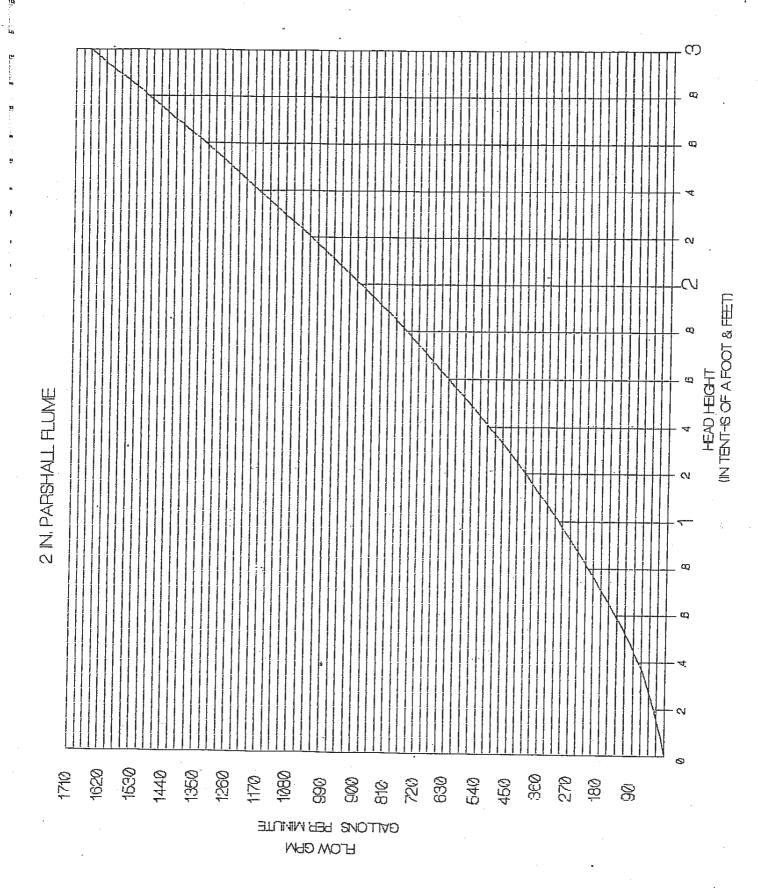
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Taible 14-11:

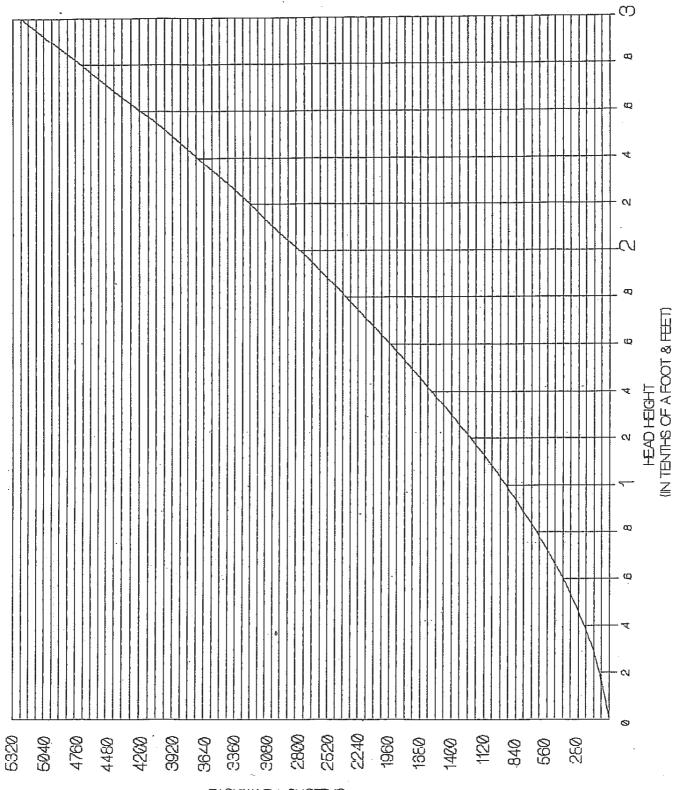
30) in. Palmer-Bowlus Flume Discharge Table with Head in Feet

Table 14-11: 30 in. Palmer-Bowlus Flume Discharge Table with Head in Feet (continued)

	6,819	£	13	2		.310		21	.63	702	7.818	7 921	8.025	129	8.235	8.340	8,446	8.553	8.661	B.768	8,877	8.986	9.095	9.205	9.316	9.426	9.538	9.650	9.782	9.875	9886	10.10	10.22	0.33	10.44	1.58	0,68
	9	66	1	~:	7	7	7.	7	7.	7	17	7	-	æ	8	co		æi	8	60	8	<u></u>	đi	co.	Ci	oi:	<b>6</b>	66	6	6	В	=		₽	3	¥ —	Ĭ
	4736	4802	4870	4939	5007	5076	5146	5216	5287	5357	5429	5500	6578	5645	5718	5792	5865	5939	6014	6089	明明	6240	8316	6392	6999	6546	6623	670	6779	6857	6936	7015	7094	7173	7253	7333	7413
		10,70	10,85	11.00	11.16		14.47	1.62	11.78	11.94	12.10	12.26	12.42	12.58	12.74	12.90	1307	13.23	13.40	13.57	13.78	13,90	14.07	14.24	14.41	14,59	14.76	14.93	15.10	15.28	15.45	15.63	5.81	15.98	16.16	16.34	16.52
	(海) (115)	<b></b>		1,42	1.43	1.44	9	1.46	147	1.48	67	1.50		1.52		55.	33	8	157	1,58	B:	<u>8</u>	<b>.</b>	1.62	83	1.64	8	18	1.67	89,	89	1.70		1.72	1.73	1,74	1.75
36.5		3.734	3,804	3,875	3,947	4.019	4.092	<u>8</u>	4.240	13 12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	100	468	545	4.624	702	763	4,863	4.944	5.026	5,128	5,193	5.277	5,362	.447	.534	5.621		5.798	5,867	5.977	8,068	6, 159	6.251	5.344	6.438	6.532	6,627
	8	S .	<b>9</b>	m		*	100	4		4		٦		-					·us	163		-				43	130 100					_			30		
	2545	2593	2642	2691	2741	2791	2841	2893	2944	2997	3049	3403	3157	3211	3266	3321	3377	3433	3490	3548	3606	3664	3723	3783	3843	3903	3984	4026	4088	4150	4213	4277	4341	4405	4470	4536	4602
		19 19 10 10 10	經過	_		_					7 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (			_						-		10						0					N	602			
	5,671	5.778	5.886	5,996	6.106	6.218	6.331	6.445	6,561	6.677	6.795	6 013	7 083	7.154	7277	7.400	7.525	7.650	1.17	7,905	8,034	8,165	B,296	8.429	8.562	8.697	8.833	8.970	9.109	9,248	9,388	9.530	9.672	9.816	9.961	10.11	10.25
eet)	1.01	23	2	4	22	8		80	8	_		-				- 10	17.00		19		121	cu cu	សុ	4	ĸ		22	60	28		<u>بن</u>	웑	33	돢	岩	89	137

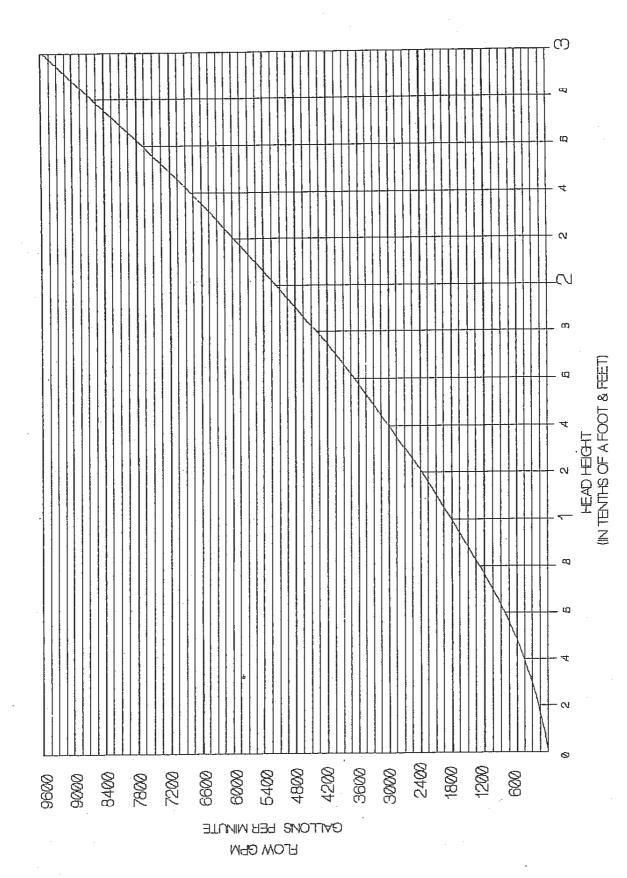


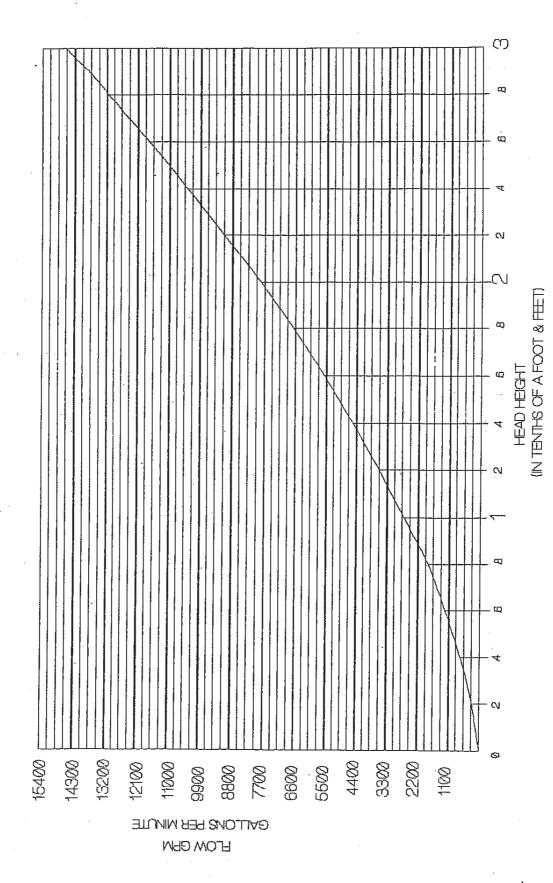
FLOW GPM

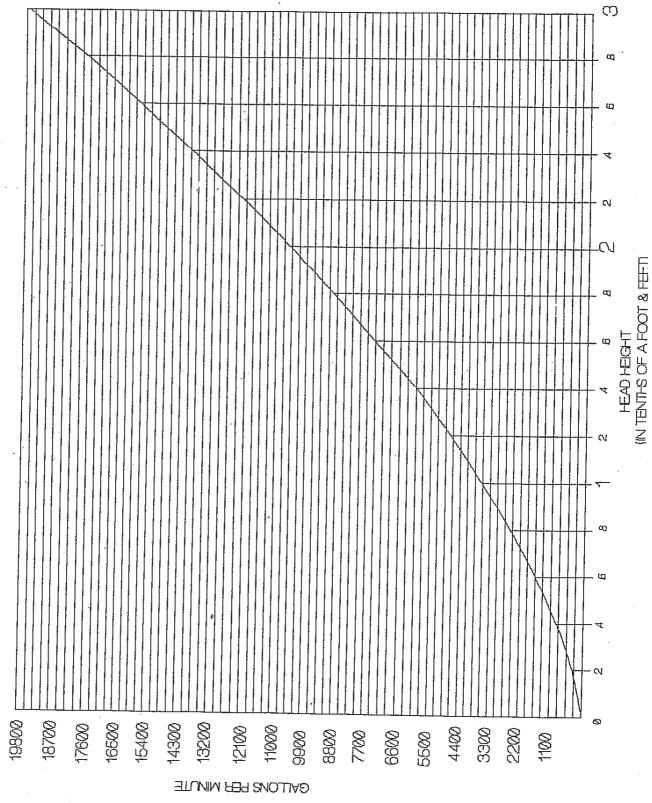


GVITOMS HELY MINUTE FOW GPM

MED WELLOWS FREE MINUTE







PLOW GPM

# STAFF GAUGE SPECIFICATIONS

- A. Material--Fiberglass reinforced polyester B. Thickness--.090" C. Width--2.5"

- D. Length--dependent upon flume height.
  E. Calibration increments--Hundredths and tenths of a foot and feet.
  F. Molded to flume at dimension 2/3 A, embedded flush into wall of flume with layer of close accept over agure to prelayer of clear gelcoat over gauge to prevent calibration markings from deteriorating.

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PLASTICS COMPANY, NO.

P.O. BOX 39 STATE HWY. 21 NECEDAH, WI 54646

PHONE:608-565-2208 FAX:808-565-7747

STAFF GAUGE SPECIFICATIONS

SCALE: PEVISED: FULL DRAWING NO. 7-25-91 DFIAWN BY: KM-0035 KAN