



FOAMPRO®

Precision foam every time

2000/3000 Series Single-Point Injection Calibration Chart

DISCHARGE OF SMOOTH NOZZLE - GALLONS PER MINUTE

Nozzle Pressure	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2	2-1/4	Nozzle Pressure
6	18	41	72	113	163	223	292	369	6
8	21	47	84	131	188	257	336	427	8
10	23	53	93	146	211	288	376	477	10
12	25	58	102	160	231	315	412	522	12
14	27	63	110	173	249	340	445	564	14
16	29	67	118	185	267	364	475	603	16
18	31	71	125	196	283	386	504	640	18
20	33	75	132	206	298	407	532	674	20
22	35	78	139	216	313	427	557	707	22
24	36	81	145	226	327	446	582	739	24
26	38	85	151	235	340	464	606	769	26
28	39	88	157	244	353	481	629	799	28
30	40	91	162	253	365	498	651	826	30
32	42	94	167	261	377	514	673	854	32
34	43	97	172	269	389	530	693	880	34
36	44	100	177	277	400	546	713	905	36
38	45	102	182	285	411	561	733	930	38
40	47	105	187	292	422	575	752	954	40
42	48	108	192	299	432	589	770	978	42
44	49	110	196	306	442	603	788	1000	44
46	50	113	200	313	452	617	806	1021	46
48	51	115	205	320	462	630	824	1043	48
50	52	118	209	326	472	643	841	1065	50
52	53	120	213	333	481	655	857	1087	52
54	54	122	217	339	490	668	873	1108	54
56	55	124	221	345	499	680	889	1129	56
58	56	127	225	351	508	692	905	1149	58
60	57	129	229	357	517	704	920	1168	60
62	58	131	233	363	525	716	936	1187	62
64	59	133	237	369	533	727	951	1206	64
66	60	135	240	375	542	738	965	1224	66
68	61	137	244	381	550	750	980	1242	68
70	61	139	247	386	558	761	994	1260	70
72	62	141	251	391	566	771	1008	1278	72
74	63	143	254	397	574	782	1023	1296	74
76	64	145	258	402	582	792	1036	1313	76
78	65	147	261	407	589	803	1050	1330	78
80	66	149	264	413	596	813	1063	1347	80
82	67	151	268	418	604	823	1076	1364	82
84	67	152	271	423	611	833	1089	1380	84
86	68	154	274	428	618	843	1102	1396	86
88	69	156	277	433	626	853	1115	1413	88
90	70	158	280	438	633	862	1128	1429	90
92	70	160	283	443	640	872	1140	1445	92
94	71	161	286	447	647	881	1152	1460	94
96	72	163	289	452	654	890	1164	1476	96
98	73	165	292	456	660	900	1176	1491	98
100	74	166	295	461	667	909	1189	1506	100
105	76	170	303	473	683	932	1218	1542	105
110	77	174	310	484	699	954	1247	1579	110
115	79	178	317	495	715	975	1275	1615	115
120	81	182	324	505	730	996	1303	1649	120

CALIBRATION AND SETUP INSTRUCTIONS

CALIBRATION AND SETUP MODE

Enter the Calibration and Setup mode by using the Digital Display Control Head function buttons. To enter or exit the calibration mode, remove the cover screw and O-ring to the left of the display. Use a 3/32-inch Allen wrench to remove and to operate the switch that is located beneath it. To enter the mode, simply insert the long end of the Allen wrench into the hole and gently depress and release the switch. The display will flash ELEC/SETUP until any function button is pressed. To exit the mode, simply reinsert the Allen wrench into the hole and depress and release the switch. The display will return to HYPRO.

NOTE: The viscosity of different foam concentrates may have an effect on the amount of foam concentrate that is injected into the water stream. When calibrating the system, use the foam concentrate that will be used most frequently during normal operations. When different viscosity foam concentrates are used, the actual concentrate injection may vary as much as 10%.

FLOWMETER CALIBRATION

Using a suitable size smooth bore nozzle and an accurate Pilot Gauge instrument, connect to a hose which is connected to a discharge fed by a FoamPro flowmeter. Enter Calibration/Setup mode; press the SELECT button. The current water flow rate will be displayed. Measure the psi of the water flow and find the correct gpm from the chart. Press the ▼ or ▲ button to set the reading to match the actual flow. To lock the setting, exit the Calibration/ Setup mode.

SIMULATED FLOW

Enter the Calibration/Setup mode, then press the SELECT button until the light under FLOW is illuminated. Pressing both the ▼ and ▲ simultaneously will display the default setting. Adjust the setting by pressing the ▼ or ▲ buttons to set the desired rate i.e., “=100”. After the flow rate has been set, press the ▼ and ▲ simultaneously again to return to Setup mode. Exit Calibration/Setup mode.

SETUP FOR DUAL-TANK MODE OR REMOTE START/STOP MODE

Remove both Calibration/Setup and Diagnostic screws. Enter the Calibration/Setup mode, then enter Diagnostic mode. The display will flash “DUAL.T CONF” or “RSTART CONF”. If you want DUAL-TANK option, press the ▼ button once. For REMOTE START/STOP option, press the ▲ button once. In Dual Tank Mode, the control head will read PA / Pb. In Remote Start/Stop, it will read PC. Pressing the left internal button puts you back to operational mode. Replace screws.

FOAM CONCENTRATE %

The default concentrate injection rate (%) can be adjusted. Enter the Calibration/Setup mode. Use the SELECT button to illuminate the light below “%”. With a single foam tank, the display will show the current default % as “PA x.x”. Press the ▼ or ▲ buttons to set the desired “%” used most frequently. If using a FoamPro Dual Tank selector, select tank “B”. The display will show “Pb x.x”. Press the ▼ or ▲ buttons to set the desired “%” depending on which type of foam is used. For single tank in REMOTE START/STOP option, the display will show the current default % as “PC x.x”. Exit Calibration/Setup mode.

FOAM PUMP CALIBRATION

When using a FoamPro dual tank system, each foam concentrate should be calibrated individually because of differences in foam viscosity. First select “PA” or “PB”. To calibrate, enter Calibration/Setup mode. Press the SELECT button to illuminate the light below TOTAL FOAM. Turn the CAL/INJECT valve on the discharge side of the concentrate pump to CAL/FLUSH position. Place a graduated measuring container (measured in ounces) beneath the outlet from the CAL/INJECT valve to hold about 1 gallon of concentrate. Start the FoamPro pump by pressing the red FOAM button. The foam pump will operate and pump the foam concentrate into the container. When the desired amount of foam concentrate has been pumped, stop the foam pump by pressing the red FOAM button. Turn the CAL/INJECT valve back to the INJECT position. Precisely measure, by the ounce, the amount of foam concentrate collected. Then divide the number of ounces by 128 giving you the volume of foam concentrate to 1/100 of a gallon, i.e., 82 oz. / 128 = .64. Adjust the reading by pressing the ▼ or ▲ button. If the unit has Dual-Tank option, select tank “B”. Flow off about one gallon and repeat the procedure. (DO NOT PUT CONTAMINATED CONCENTRATE BACK IN TANK.) Exit the Calibration/Setup mode.

SYSTEM RESET

If the control head errors or locks up, it may be necessary to return to factory default settings. Enter Calibration/Setup mode. Immediately, before pressing any other buttons, depress the ▼ and ▲ simultaneously. The system will return to Remote Start/Stop Mode (PC) and will require recalibration.

1 gallon = 3.785 liters or 0.833 Imp. Gal.



Pentair Water

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