

PRINT 1:1, CENTERED TO PLOT, ON 11X17 PLAIN
 CUT OUT ON SOLID LINE, LAMINATE WITH 3 MIL WEIGHT
 LAMINATE POUCH AND CUT 1/8" FROM BORDERS OF PAPER

SIDE 1

6 3/8 MAX LAMINATE

SIDE 2

OPERATING INSTRUCTIONS

MAINTENANCE
 DRAIN PILOT AIR CHAMBER AFTER EVERY TEST
 CALIBRATE GAUGE WITH AN ACCURATE GAUGE TESTER
 LUBRICATE O-RING SEAL WITH A SILICONE BASED
 LUBRICANT

PARTS LIST

ITEM	QTY	DESCRIPTION
1	64	SWIVEL GASKET
2	1	SWIVEL BALLS
3	1	O-RING
4	1	DRAIN
5	1	RETRACTABLE PLUNGER
6	1	GAUGE, LIQUID FILLED
7	1	DETENT RING
8	1	RETAINER RING
9	1	PILOT ASSEMBLY
9A	1	OPTION
10	10	NOZZLE, 1,000 BORE
10	10	NOZZLE, 1,250 BORE
10	10	NOZZLE, 1,500 BORE
10	10	NOZZLE, 1,750 BORE
10	10	NOZZLE, 2,000 BORE
10	10	NOZZLE, 2,250 BORE
10	10	NOZZLE, 2,500 BORE
11	1	LOCK PLUNGER
12	1	PILOT ASSEMBLY
13	1	PILOT ASSEMBLY
14	1	SWIVEL BODY

- 1) SELECT PROPER NOZZLE SIZE FROM SELECTION CHART
- 2) TO CHANGE NOZZLE:
 - a) PULL RELEASE PLUNGER (5)
 - b) ROTATE PILOT TO THE SIDE
 - c) SLIDE LOCK RING (11) BACK
 - d) EXCHANGE NOZZLE
 - e) SLIDE LOCK RING - FORWARD
- 3) THE DOWN OR MECHANICALLY SECURE TESTER ASSEMBLY.
- 4) TO AVOID DAMAGE TO PILOT ASSEMBLY, FLUSH PUMP/HYDRANT BEFORE ROTATING BLADE INTO STREAM.
- 5) DRAIN ACCUMULATED WATER FROM PILOT AIR CHAMBER PERIODICALLY.
- 6) TO PROVIDE ACCURATE RESULTS WHEN USING TESTER TO MEASURE HYDRANT FLOW, A 2 1/2" X 24" LONG STREAM STRAIGHTENER SHOULD BE PLACED BETWEEN THE HYDRANT AND FLOW TESTER. WITH STREAM STRAIGHTENER IN PLACE FLOW RATES CAN BE DETERMINED DIRECTLY FROM THE DISCHARGE TABLE PROVIDED WITH TESTER.

IF A STREAM STRAIGHTENER IS NOT AVAILABLE, REFER TO NFPA PAMPHLET NO. 291, FLOW TESTING AND MARKING OF HYDRANTS, TO OBTAIN COEFFICIENT AND CORRESPONDING FLOW CHART TO MATCH HYDRANT BEING TESTED.

DISCHARGE TABLE - US GPM

PSI NOZZLE PRESS	1.00	1.25	1.50	1.75	2.00	2.25	2.50
30	162	253	365	498	651	826	1021
32	167	261	377	514	673	854	1055
34	172	269	389	530	693	880	1087
36	177	277	400	546	713	905	1119
38	182	285	411	561	733	930	1149
40	187	292	422	575	752	954	1179
42	192	299	432	589	770	978	1209
44	196	306	442	603	788	1000	1237
46	200	313	452	617	806	1021	1264
48	205	320	462	630	824	1043	1292
50	209	326	472	643	841	1065	1318
52	213	333	481	656	857	1087	1344
54	217	339	490	668	873	1108	1370
56	221	345	499	680	889	1129	1395
58	225	351	508	692	905	1149	1420
60	229	357	517	704	920	1168	1444
62	233	363	525	716	936	1187	1468
64	237	369	532	727	951	1206	1491
66	241	375	540	738	966	1224	1515
68	244	381	550	750	980	1242	1537
70	247	386	558	761	994	1260	1560
72	251	391	566	771	1008	1278	1582
74	254	397	574	782	1023	1296	1604
76	258	402	582	792	1036	1313	1625
78	261	407	589	803	1050	1330	1647
80	264	413	596	813	1063	1347	1668
82	268	418	604	823	1076	1364	1688
84	271	423	611	833	1089	1380	1708
86	274	428	618	843	1102	1396	1729
88	277	433	626	853	1115	1412	1749
90	280	438	633	862	1128	1429	1769
92	283	443	640	872	1140	1445	1788
94	286	447	647	881	1152	1460	1808
96	289	452	654	890	1164	1476	1827
98	292	456	660	900	1176	1491	1846
100	295	461	667	909	1189	1506	1864

NOZZLE SELECTION

UL822 - NFPA 1901 - NFPA 1911

PUMP RATING	NET PUMP PRESS	NOZZLE SIZE	PILOT PRESS	FLOW GPM
500	150	1.50	57	504
200	200	1.25	56	351
250	250	1.00	72	251
750	150	1.75	68	750
200	200	1.25	66	375
1000	150	2.00	71	1001
200	200	1.75	80	704
250	250	1.75	57	504
1250	150	2.25	69	898
200	200	1.50	88	628
1500	150	2.25	100	1506
200	200	1.75	68	750
1500	150	2.50	65	1503
200	200	2.00	78	1050
250	250	1.75	68	750

(2) TESTERS REQUIRED FOR 1750-3000 GPM

TESTER	NOZZLE	FLOW GPM		
1750	150	2.00	70	994
	200	1.75	70	761
	250	2.25	66	1225
	250	2.00	55	881
2000	150	2.00	71	1001
	200	2.25	87	1404
	250	2.00	71	1001
2250	150	2.25	56	1129
	200	2.25	56	1129
	200	1.75	76	792
	250	1.75	76	792
	250	1.50	72	566
	250	1.50	72	566
2500	150	2.25	69	1251
	200	2.25	69	1251
	200	2.00	55	883
	250	2.00	55	883
	250	1.50	88	626
	250	1.50	88	626
3000	150	2.50	65	1504
	200	2.50	65	1504
	200	2.00	78	1050
	250	2.00	78	1050
	250	1.75	68	750
	250	1.75	68	750

SAFETY PRECAUTIONS

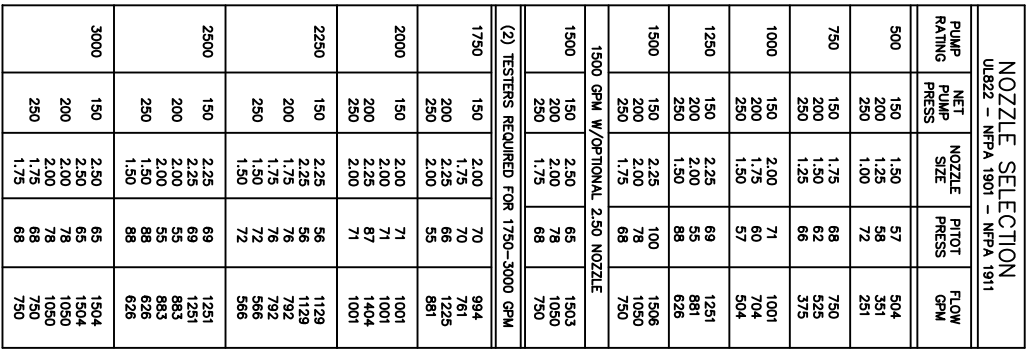
FOR SAFE AND ACCURATE TEST RESULTS, FOLLOW TEST PROCEDURES OUTLINED IN NFPA PAMPHLET SSP-67, FIRE DEPARTMENT PUMPER TESTS AND FIRE STREAM TABLES.

FLOW TEST NOZZLE ASSEMBLY MUST BE MECHANICALLY RESTRAINED. NEVER ALLOW A TEST TO BE CONDUCTED WITH A HAND HELD NOZZLE.

DISCHARGE AWAY FROM TEST PERSONNEL AND BYSTANDERS. ENSURE THAT DISCHARGE ZONE WILL REMAIN CLEAR AT ALL TIMES.

DO NOT CHANGE NOZZLES WHILE DISCHARGING WATER.

NOZZLE LOCK RING MUST BE IN FORWARD POSITION TO SECURELY LOCK NOZZLE IN PLACE. FAILURE TO LOCK NOZZLE IN PLACE COULD DAMAGE PILOT ASSEMBLY.



W. S. DARLEY & CO. HEREBY CERTIFIES THAT THE FLOW TESTER NOZZLE BORES ARE MANUFACTURED TO AN ACCURACY OF PLUS TWO THIRDS OF ONE PERCENT MINUS ZERO PERCENT (40/3, 0/3 PERCENT). U.L. REQUIRES MINIMUM BORE ACCURACY OF PLUS THREE PERCENT MINUS ZERO PERCENT (+3/3 -0/0 PERCENT).

THE DARLEY FLOW TEST KIT WHEN USED IN ACCORDANCE WITH THE DARLEY FLOW TEST PROCEDURE, WILL RESULT IN FLOW RATES WHICH CORRESPOND TO THE ASSUMED DISCHARGE COEFFICIENTS AS LISTED IN UL 822, NFPA 1901 AND NFPA 1911 FLOW CHARTS.

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8 1/4 MAX LAMINATE