

PRO - Rectangle Nozzles (page 6 of 9)

COMPONENT	COMPONENT	NOZZLE I.D.=	NOZZLE O.D	NOZZLE	NOZZLE	NOZZLE
OUTSIDE	OUTSIDE	COMPONENT	w/o deflectors	MIN O.D.	MAX O.D.	ASSY. No.
DIMENSION	DIMENSION	O.D. + .110	A+0.060	B+.020	B+.120	
(mm)	(Inches)	(+.020/-000)	(+.020/-000)	(+.022/-000)	(+.035/-015)	
"X/Y"	"X/Y"	"A"	"B"	"C"	"D"	
21	0.827	0.937	0.997	1.017	1.117	1-91-30465
26	1.024	1.134	1.194	1.214	1.314	
21	0.827	0.937	0.997	1.017	1.117	9049-0027-00
33	1.299	1.409	1.469	1.489	1.589	
21	0.827	0.937	0.997	1.017	1.117	9049-0114-00
41.5	1.634	1.744	1.804	1.824	1.924	
21	0.827	0.937	0.997	1.017	1.117	1-91-30466
47	1.850	1.960	2.020	2.040	2.140	
21	0.827	0.937	0.997	1.017	1.117	9049-0279-00
55	2.165	2.275	2.335	2.355	2.455	
21	0.827	0.937	0.997	1.017	1.117	1-91-30799
58	2.283	2.393	2.453	2.473	2.573	
21.3	0.837	0.947	1.007	1.027	1.127	1-91-30266
25.3	0.994	1.104	1.164	1.184	1.284	
21.5	0.846	0.956	1.016	1.036	1.136	9049-0072-00
25	0.984	1.094	1.154	1.174	1.274	
21.5	0.846	0.956	1.016	1.036	1.136	1-91-30789
42	1.654	1.764	1.824	1.844	1.944	
21.5	0.846	0.956	1.016	1.036	1.136	1-91-30802
60	2.362	2.472	2.532	2.552	2.652	
22	0.866	0.976	1.036	1.056	1.156	1-91-30473
26	1.024	1.134	1.194	1.214	1.314	
22	0.866	0.976	1.036	1.056	1.156	1-91-30797
32	1.260	1.370	1.430	1.450	1.550	
22	0.866	0.976	1.036	1.056	1.156	1-91-30493
40	1.575	1.685	1.745	1.765	1.865	
22	0.866	0.976	1.036	1.056	1.156	9049-0086-00
48	1.890	2.000	2.060	2.080	2.180	
22	0.866	0.976	1.036	1.056	1.156	1-91-30532
58	2.283	2.393	2.453	2.473	2.573	
22	0.866	0.976	1.036	1.056	1.156	1-91-30917
60	2.362	2.472	2.532	2.552	2.652	
23	0.906	1.016	1.076	1.096	1.196	1-91-30447
35	1.378	1.488	1.548	1.568	1.668	
23	0.906	1.016	1.076	1.096	1.196	1-91-30457
38	1.496	1.606	1.666	1.686	1.786	
23	0.906	1.016	1.076	1.096	1.196	1-91-30924
61	2.402	2.512	2.572	2.592	2.692	
23.5	0.925	1.035	1.095	1.115	1.215	1-91-30915
44	1.732	1.842	1.902	1.922	2.022	
24	0.945	1.055	1.115	1.135	1.235	9049-0328-00
27	1.063	1.173	1.233	1.253	1.353	
24	0.945	1.055	1.115	1.135	1.235	9049-0386-00
27.5	1.083	1.193	1.253	1.273	1.373	
24	0.945	1.055	1.115	1.135	1.235	1-91-30290
38	1.496	1.606	1.666	1.686	1.786	
24.5	0.965	1.075	1.135	1.155	1.255	1-91-30901
45	1.772	1.882	1.942	1.962	2.062	
25	0.984	1.094	1.154	1.174	1.274	1-91-30316
27	1.063	1.173	1.233	1.253	1.353	
25	0.984	1.094	1.154	1.174	1.274	9049-0184-00
27.5	1.083	1.193	1.253	1.273	1.373	
25	0.984	1.094	1.154	1.174	1.274	9049-0347-00
29	1.142	1.252	1.312	1.332	1.432	
25	0.984	1.094	1.154	1.174	1.274	1-91-30292
32	1.260	1.370	1.430	1.450	1.550	
25	0.984	1.094	1.154	1.174	1.274	9049-0269-00
33	1.299	1.409	1.469	1.489	1.589	
25	0.984	1.094	1.154	1.174	1.274	9049-0221-00
34	1.339	1.449	1.509	1.529	1.629	
25.05	0.986	1.096	1.156	1.176	1.276	1-91-30902
32.5	1.280	1.390	1.450	1.470	1.570	
26	1.024	1.134	1.194	1.214	1.314	9049-0230-00
29	1.142	1.252	1.312	1.332	1.432	
26	1.024	1.134	1.194	1.214	1.314	9049-0171-00
35	1.378	1.488	1.548	1.568	1.668	









PRO - Square Nozzles, 45 Degrees (page 1 of 1)

COMPONENT	COMPONENT	NOZZLE I.D.=	NOZZLE O.D	NOZZLE	NOZZLE		NOZZLE	PLATE P/N	OPENING
OUTSIDE	OUTSIDE	COMPONENT	w/o deflectors	MIN O.D.	MAX O.D.		ASSY. No.		
DIMENSION	DIMENSION	O.D. + .110	A+0.060	B+.020	B+.120				
(mm)	(Inches)	(+.020/- .000)	(+.020/- .000)	(+.022/- .000)	(+.035/- .015)				
"X or Y"	"X or Y"	"A"	"B"	"C"	"D"				
14	0.551	0.661	0.721	0.741	0.841		need to rotate mini		
15	0.591	0.701	0.761	0.781	0.881		need to rotate mini		
16	0.630	0.740	0.800	0.820	0.920		need to rotate mini		
17	0.669	0.779	0.839	0.859	0.959		need to rotate mini		
18	0.709	0.819	0.879	0.899	0.999		need to rotate mini		
19	0.748	0.858	0.918	0.938	1.038		9049-0109-00	1-14-20322	0.625
20	0.787	0.897	0.957	0.977	1.077			1-14-20322	0.625
21	0.827	0.937	0.997	1.017	1.117			1-14-20322	0.625
22	0.866	0.976	1.036	1.056	1.156			1-14-20322	0.625
22.5	0.886	0.996	1.056	1.076	1.176			1-14-20322	0.625
23	0.906	1.016	1.076	1.096	1.196		9049-0280-00	1-14-20322	0.625
23.5	0.925	1.035	1.095	1.115	1.215			1-14-20322	0.625
24	0.945	1.055	1.115	1.135	1.235			1-14-20322	0.625
25	0.984	1.094	1.154	1.174	1.274			1-14-20322	0.625
26	1.024	1.134	1.194	1.214	1.314			1-14-20321	0.75
26.5	1.043	1.153	1.213	1.233	1.333			1-14-20321	0.75
27	1.063	1.173	1.233	1.253	1.353		9049-0382-00	1-14-20321	0.75
28	1.102	1.212	1.272	1.292	1.392			1-14-20321	0.75
29	1.142	1.252	1.312	1.332	1.432		9049-0254-00	1-14-20321	0.75
30	1.181	1.291	1.351	1.371	1.471			1-14-20320	0.9
31	1.220	1.330	1.390	1.410	1.510		1-91-30660 (9049-0153 w/o deflec)	1-14-20320	0.9
31.5	1.240	1.350	1.410	1.430	1.530			1-14-20320	0.9
32	1.260	1.370	1.430	1.450	1.550			1-14-20320	0.9
33	1.299	1.409	1.469	1.489	1.589			1-14-20320	0.9
33.5	1.319	1.429	1.489	1.509	1.609			1-14-20320	0.9
34	1.339	1.449	1.509	1.529	1.629		9049-0321-00	1-14-20320	0.9
34.5	1.358	1.468	1.528	1.548	1.648			1-14-20320	0.9
35	1.378	1.488	1.548	1.568	1.668		1-91-30668	1-14-20320	0.9
35.5	1.398	1.508	1.568	1.588	1.688			1-14-20320	0.9
36	1.417	1.527	1.587	1.607	1.707			1-14-20320	0.9
37	1.457	1.567	1.627	1.647	1.747		9049-0228-00	1-14-20320	0.9
37.5	1.476	1.586	1.646	1.666	1.766		1-91-31084	1-14-20320	0.9
37.5	1.476	1.586	1.646	1.666	1.766		247-012-00 w/o deflectors	1-14-20320	0.9
37.5	1.476	1.586	1.646	1.666	1.766		9049-0152-00 (60 deg)	1-14-20326	1.1
38	1.496	1.606	1.666	1.686	1.786		247-026-00	1-14-20326	1.1
38.5	1.516	1.626	1.686	1.706	1.806			1-14-20326	1.1
39	1.535	1.645	1.705	1.725	1.825			1-14-20326	1.1
40	1.575	1.685	1.745	1.765	1.865		9049-0294-00	1-14-20326	1.1
41	1.614	1.724	1.784	1.804	1.904			1-14-20326	1.1
42	1.654	1.764	1.824	1.844	1.944			1-14-20326	1.1
42.5	1.673	1.783	1.843	1.863	1.963		9049-0106-00	1-14-20326	1.1
42.5	1.673	1.783	1.843	1.863	1.963		9049-0106-01 Reverse	1-14-20326	1.1
43	1.693	1.803	1.863	1.883	1.983		247-021-00		
44									
45								1-14-20331	1.3
46								1-14-20331	1.3
47								1-14-20331	1.3
48								1-14-20331	1.3
49								1-14-20331	1.3
50								1-14-20331	1.3
51								1-14-20331	1.3
52								1-14-20336	1.5
53								1-14-20336	1.5
54								1-14-20336	1.5
55								1-14-20336	1.5
56								1-14-20336	1.5
57								1-14-20336	1.5
58								1-14-20336	1.5
59	2.323	2.433	2.493	2.513	2.613		9049-0154-00		
61.5	2.421	2.531	2.591	2.611	2.711		no deflectors		

PRO - Rectangle Nozzles (page 1 of 9)

COMPONENT	COMPONENT	NOZZLE I.D.=	NOZZLE O.D	NOZZLE	NOZZLE	NOZZLE
OUTSIDE	OUTSIDE	COMPONENT	w/o deflectors	MIN O.D.	MAX O.D.	ASSY. No.
DIMENSION	DIMENSION	O.D. + .110	A+0.060	B+.020	B+.120	
(mm)	(Inches)	(+.020/- .000)	(+.020/- .000)	(+.022/- .000)	(+.035/- .015)	
"X/Y"	"X/Y"	"A"	"B"	"C"	"D"	
10	0.394	0.504	0.564	0.584	0.684	1-91-30310
14	0.551	0.661	0.721	0.741	0.841	
10	0.394	0.504	0.564	0.584	0.684	1-91-30279
15	0.591	0.701	0.761	0.781	0.881	
10	0.394	0.504	0.564	0.584	0.684	1-91-30280
17	0.669	0.779	0.839	0.859	0.959	
10	0.394	0.504	0.564	0.584	0.684	1-91-30900
18	0.709	0.819	0.879	0.899	0.999	
10	0.394	0.504	0.564	0.584	0.684	1-91-30262
20	0.787	0.897	0.957	0.977	1.077	w/o deflec 19130634nd
10	0.394	0.504	0.564	0.584	0.684	1-91-30321
21	0.827	0.937	0.997	1.017	1.117	
10	0.394	0.504	0.564	0.584	0.684	1-91-30634
22	0.866	0.976	1.036	1.056	1.156	
10	0.394	0.504	0.564	0.584	0.684	1-91-30779
23.5	0.925	1.035	1.095	1.115	1.215	
10	0.394	0.504	0.564	0.584	0.684	1-91-30306
25	0.984	1.094	1.154	1.174	1.274	
10	0.394	0.504	0.564	0.584	0.684	1-91-30477
30	1.181	1.291	1.351	1.371	1.471	
10	0.394	0.504	0.564	0.584	0.684	1-91-30768
31	1.220	1.330	1.390	1.410	1.510	
10	0.394	0.504	0.564	0.584	0.684	1-91-30898
32	1.260	1.370	1.430	1.450	1.550	
10	0.394	0.504	0.564	0.584	0.684	1-91-30475
33	1.299	1.409	1.469	1.489	1.589	
10	0.394	0.504	0.564	0.584	0.684	1-91-30804
45	1.772	1.882	1.942	1.962	2.062	
10	0.394	0.504	0.564	0.584	0.684	1-91-30496
54	2.126	2.236	2.296	2.316	2.416	
10	0.394	0.504	0.564	0.584	0.684	1-91-30486
61	2.402	2.512	2.572	2.592	2.692	
10	0.394	0.504	0.564	0.584	0.684	1-91-30497
63	2.480	2.590	2.650	2.670	2.770	
10	0.394	0.504	0.564	0.584	0.684	1-91-30769
65	2.559	2.669	2.729	2.749	2.849	
10.2	0.402	0.512	0.572	0.592	0.692	9049-0038-00
71	2.795	2.905	2.965	2.985	3.085	
10.5	0.413	0.523	0.583	0.603	0.703	1-91-31083
21.5	0.846	0.956	1.016	1.036	1.136	
10.5	0.413	0.523	0.583	0.603	0.703	1-91-30911
28.5	1.122	1.232	1.292	1.312	1.412	
11	0.433	0.543	0.603	0.623	0.723	1-91-30312
13	0.512	0.622	0.682	0.702	0.802	
11	0.433	0.543	0.603	0.623	0.723	9049-0272-00
13.5	0.531	0.641	0.701	0.721	0.821	
11	0.433	0.543	0.603	0.623	0.723	9049-0309-00
14	0.551	0.661	0.721	0.741	0.841	
11	0.433	0.543	0.603	0.623	0.723	1-91-30274
16	0.630	0.740	0.800	0.820	0.920	
11	0.433	0.543	0.603	0.623	0.723	1-91-30275
18	0.709	0.819	0.879	0.899	0.999	
11	0.433	0.543	0.603	0.623	0.723	9049-0363-00
19	0.748	0.858	0.918	0.938	1.038	
11	0.433	0.543	0.603	0.623	0.723	9049-0265-00
22	0.866	0.976	1.036	1.056	1.156	
11	0.433	0.543	0.603	0.623	0.723	1-91-30503
23	0.906	1.016	1.076	1.096	1.196	
11	0.433	0.543	0.603	0.623	0.723	1-91-30448
34	1.339	1.449	1.509	1.529	1.629	
11	0.433	0.543	0.603	0.623	0.723	1-91-30515
72	2.835	2.945	3.005	3.025	3.125	
11.5	0.453	0.563	0.623	0.643	0.743	9049-0273-00
14	0.551	0.661	0.721	0.741	0.841	

<i>PRO - Rectangle Nozzles (page 2 of 9)</i>						
COMPONENT	COMPONENT	NOZZLE I.D.=	NOZZLE O.D	NOZZLE	NOZZLE	NOZZLE
OUTSIDE	OUTSIDE	COMPONENT	w/o deflectors	MIN O.D.	MAX O.D.	ASSY. No.
DIMENSION	DIMENSION	O.D. + .110	A+0.060	B+.020	B+.120	
(mm)	(Inches)	(+.020/- .000)	(+.020/- .000)	(+.022/- .000)	(+.035/- .015)	
<i>"X/Y"</i>	<i>"X/Y"</i>	<i>"A"</i>	<i>"B"</i>	<i>"C"</i>	<i>"D"</i>	
11.5	0.453	0.563	0.623	0.643	0.743	9049-0244-00
14.5	0.571	0.681	0.741	0.761	0.861	
11.5	0.453	0.563	0.623	0.643	0.743	9049-0339-00
26.0	1.024	1.134	1.194	1.214	1.314	
11.5	0.453	0.563	0.623	0.643	0.743	9049-0316-00
28	1.102	1.212	1.272	1.292	1.392	
11.5	0.453	0.563	0.623	0.643	0.743	9049-0274-00
30	1.181	1.291	1.351	1.371	1.471	
12	0.472	0.582	0.642	0.662	0.762	9049-0241-00
14	0.551	0.661	0.721	0.741	0.841	
12	0.472	0.582	0.642	0.662	0.762	1-91-30464
15	0.591	0.701	0.761	0.781	0.881	
12	0.472	0.582	0.642	0.662	0.762	9049-0311-00
17	0.669	0.779	0.839	0.859	0.959	
12	0.472	0.582	0.642	0.662	0.762	247-003-00
18	0.709	0.819	0.879	0.899	0.999	
12	0.472	0.582	0.642	0.662	0.762	1-91-30281
19	0.748	0.858	0.918	0.938	1.038	
12	0.472	0.582	0.642	0.662	0.762	1-91-30468
20	0.787	0.897	0.957	0.977	1.077	
12	0.472	0.582	0.642	0.662	0.762	1-91-30302
21	0.827	0.937	0.997	1.017	1.117	
12	0.472	0.582	0.642	0.662	0.762	9049-0264-00
22	0.866	0.976	1.036	1.056	1.156	
12	0.472	0.582	0.642	0.662	0.762	1-91-30775
23	0.906	1.016	1.076	1.096	1.196	
12	0.472	0.582	0.642	0.662	0.762	247-002-00
24	0.945	1.055	1.115	1.135	1.235	
12	0.472	0.582	0.642	0.662	0.762	1-91-30319
25	0.984	1.094	1.154	1.174	1.274	
12	0.472	0.582	0.642	0.662	0.762	1-91-30282
27	1.063	1.173	1.233	1.253	1.353	
12	0.472	0.582	0.642	0.662	0.762	1-91-30283
29	1.142	1.252	1.312	1.332	1.432	
12	0.472	0.582	0.642	0.662	0.762	9049-0317-00
40	1.575	1.685	1.745	1.765	1.865	
12	0.472	0.582	0.642	0.662	0.762	1-91-30773
42	1.654	1.764	1.824	1.844	1.944	
12	0.472	0.582	0.642	0.662	0.762	1-91-30299
57.5	2.264	2.330	2.390	2.410	2.510	
12.5	0.492	0.602	0.662	0.682	0.782	9049-0258-00
56.5	2.224	2.330	2.390	2.410	2.510	
13	0.512	0.622	0.682	0.702	0.802	1-91-30276
15	0.591	0.701	0.761	0.781	0.881	
13	0.512	0.622	0.682	0.702	0.802	1-91-30927
19	0.748	0.858	0.918	0.938	1.038	
13	0.512	0.622	0.682	0.702	0.802	1-91-30263
20	0.787	0.897	0.957	0.977	1.077	
13	0.512	0.622	0.682	0.702	0.802	247-001-00
21	0.827	0.937	0.997	1.017	1.117	
13	0.512	0.622	0.682	0.702	0.802	1-91-30495
22	0.866	0.976	1.036	1.056	1.156	
13	0.512	0.622	0.682	0.702	0.802	9049-0079-00
25	0.984	1.094	1.154	1.174	1.274	
13	0.520	0.630	0.690	0.710	0.810	1-91-30893
25.5	1.004	1.114	1.174	1.194	1.294	
13	0.512	0.622	0.682	0.702	0.802	9049-0065-00
28	1.102	1.212	1.272	1.292	1.392	
13	0.512	0.622	0.682	0.702	0.802	1-91-30928
28.5	1.122	1.232	1.292	1.312	1.412	
13	0.500	0.610	0.670	0.690	0.790	9049-0031-00
35	1.378	1.488	1.548	1.568	1.668	
13	0.500	0.610	0.670	0.690	0.790	1-91-30795
37	1.457	1.567	1.627	1.647	1.747	
13	0.512	0.622	0.682	0.702	0.802	1-91-30284
40	1.575	1.685	1.745	1.765	1.865	
13	0.512	0.622	0.682	0.702	0.802	9049-0215-00
45	1.772	1.882	1.942	1.962	2.062	

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COMPONENT	COMPONENT	NOZZLE I.D.=	NOZZLE O.D	NOZZLE	NOZZLE	
OUTSIDE	OUTSIDE	COMPONENT	deflectors	MIN O.D.	MAX O.D.	NOZZLE
DIMENSION	DIMENSION	O.D. + .110	A+0.060	B+.020	B+.120	ASSY. No.
(mm)	(Inches)	(+.020/-000)	(+.020/-000)	(+.022/-000)	(+.035/-015)	
"XY"	"XY"	"A"	"B"	"C"	"D"	
13	0.512	0.622	0.682	0.702	0.802	1-91-30325
63	2.480	2.590	2.650	2.670	2.770	
13	0.512	0.622	0.682	0.702	0.802	9049-0128-00
64	2.520	2.630	2.690	2.710	2.810	
13.5	0.531	0.641	0.701	0.721	0.821	9049-0232-00
17.5	0.689	0.799	0.859	0.879	0.979	
13.5	0.531	0.641	0.701	0.721	0.821	1-91-30285
21.5	0.846	0.956	1.016	1.036	1.136	
13.5	0.533	0.643	0.703	0.723	0.823	9049-0214-00
33	1.299	1.409	1.469	1.489	1.589	
13.5	0.533	0.643	0.703	0.723	0.823	1-91-30323
41	1.615	1.725	1.785	1.805	1.905	
14	0.551	0.661	0.721	0.741	0.841	1-91-30892
22.1	0.870	0.980	1.040	1.060	1.160	
14	0.551	0.661	0.721	0.741	0.841	1-91-30891
43.2	1.700	1.810	1.870	1.890	1.990	
14	0.551	0.661	0.721	0.741	0.841	1-91-30691
20	0.787	0.897	0.957	0.977	1.077	
14	0.551	0.661	0.721	0.741	0.841	1-91-30264
22	0.866	0.976	1.036	1.056	1.156	
14	0.551	0.661	0.721	0.741	0.841	1-91-30887
24	0.945	1.055	1.115	1.135	1.235	
14	0.551	0.661	0.721	0.741	0.841	1-91-30303
26	1.024	1.134	1.194	1.214	1.314	
14	0.551	0.661	0.721	0.741	0.841	1-91-30921
32	1.260	1.370	1.430	1.450	1.550	
14	0.551	0.661	0.721	0.741	0.841	1-91-30517
42.5	1.673	1.783	1.843	1.863	1.963	
14.5	0.571	0.681	0.741	0.761	0.861	9049-0202-00
20.5	0.807	0.917	0.977	0.997	1.097	
14.5	0.571	0.681	0.741	0.761	0.861	1-91-30304
26.5	1.043	1.153	1.213	1.233	1.333	
15	0.591	0.701	0.761	0.781	0.881	9049-0163-00
17	0.669	0.779	0.839	0.859	0.959	
15	0.591	0.701	0.761	0.781	0.881	1-91-30461
18	0.709	0.819	0.879	0.899	0.999	
15	0.591	0.701	0.761	0.781	0.881	1-91-30277
21	0.827	0.937	0.997	1.017	1.117	
15	0.591	0.701	0.761	0.781	0.881	1-91-30463
22	0.866	0.976	1.036	1.056	1.156	
15	0.591	0.701	0.761	0.781	0.881	1-91-30903
25	0.984	1.094	1.154	1.174	1.274	
15	0.591	0.701	0.761	0.781	0.881	9049-0164-00
27	1.063	1.173	1.233	1.253	1.353	
15	0.591	0.701	0.761	0.781	0.881	1-91-30467
28	1.102	1.212	1.272	1.292	1.392	
15	0.591	0.701	0.761	0.781	0.881	1-91-30449
29	1.142	1.252	1.312	1.332	1.432	
15	0.591	0.701	0.761	0.781	0.881	1-91-30286
40.5	1.594	1.704	1.764	1.784	1.884	
15	0.591	0.701	0.761	0.781	0.881	1-91-30514
43	1.693	1.803	1.863	1.883	1.983	
15	0.591	0.701	0.761	0.781	0.881	1-91-30439
55	2.165	2.275	2.335	2.355	2.455	
15	0.591	0.701	0.761	0.781	0.881	9049-0129-00
66	2.598	2.708	2.768	2.788	2.888	
15	0.591	0.701	0.761	0.781	0.881	9040-0150-00
86.5	3.406	3.516	3.576	3.596	3.696	
15.3	0.600	0.710	0.770	0.790	0.890	1-91-30449
25.3	0.994	1.104	1.164	1.184	1.284	
15.5	0.610	0.720	0.780	0.800	0.900	1-91-30287
17.5	0.689	0.799	0.859	0.879	0.979	
16	0.630	0.740	0.800	0.820	0.920	9049-0168-00
17.5	0.689	0.799	0.859	0.879	0.979	

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COMPONENT	COMPONENT	NOZZLE I.D.=	NOZZLE O.D	NOZZLE	NOZZLE		NOZZLE
OUTSIDE	OUTSIDE	COMPONENT	deflectors	MIN O.D.	MAX O.D.		ASSY. No.
DIMENSION	DIMENSION	O.D. + .110	A+0.060	B+.020	B+.120		
(mm)	(Inches)	(+.020/-000)	(+.020/-000)	(+.022/-000)	(+.035/-015)		
"XY"	"XY"	"A"	"B"	"C"	"D"		
16	0.630	0.740	0.800	0.820	0.920		1-91-30288
18	0.709	0.819	0.879	0.899	0.999		
16	0.630	0.740	0.800	0.820	0.920		1-91-30480
19	0.748	0.858	0.918	0.938	1.038		
16	0.630	0.740	0.800	0.820	0.920		1-91-30314
20	0.787	0.897	0.957	0.977	1.077		
16	0.630	0.740	0.800	0.820	0.920		1-91-30271
22	0.866	0.976	1.036	1.056	1.156		
16	0.630	0.740	0.800	0.820	0.920		1-91-30305
24	0.945	1.055	1.115	1.135	1.235		
16	0.630	0.740	0.800	0.820	0.920		1-91-30530
25	0.984	1.094	1.154	1.174	1.274		
16	0.630	0.740	0.800	0.820	0.920		1-91-30778
29	1.142	1.252	1.312	1.332	1.432		
16	0.630	0.740	0.800	0.820	0.920		9049-0099-00
32	1.260	1.370	1.430	1.450	1.550		
16	0.630	0.740	0.800	0.820	0.920		9049-0249-00
50	1.969	2.079	2.139	2.159	2.259		
16	0.630	0.740	0.800	0.820	0.920		1-91-30912
66	2.598	2.708	2.768	2.788	2.888		
16.4	0.646	0.756	0.816	0.836	0.936		1-91-30908
42.3	1.665	1.775	1.835	1.855	1.955		
16.5	0.650	0.760	0.820	0.840	0.940		1-91-30471
43	1.693	1.803	1.863	1.883	1.983		
16.5	0.650	0.760	0.820	0.840	0.940		9049-0145-00
53.5	2.106	2.216	2.276	2.296	2.396		
16.5	0.650	0.760	0.820	0.840	0.940		1-91-30458
55	2.165	2.275	2.335	2.355	2.455		
16.7	0.656	0.766	0.826	0.846	0.946		1-91-30906
55.4	2.181	2.291	2.351	2.371	2.471		
17	0.669	0.779	0.839	0.859	0.959		247-004-00
20	0.787	0.897	0.957	0.977	1.077		
17	0.669	0.779	0.839	0.859	0.959		9049-0278-00
21	0.827	0.937	0.997	1.017	1.117		
17	0.669	0.779	0.839	0.859	0.959		1-91-30272
23	0.906	1.016	1.076	1.096	1.196		
17	0.669	0.779	0.839	0.859	0.959		9049-0115-00
23.5	0.925	1.035	1.095	1.115	1.215		
17	0.669	0.779	0.839	0.859	0.959		1-91-30278
25	0.984	1.094	1.154	1.174	1.274		
17	0.669	0.779	0.839	0.859	0.959		1-91-30313
26	1.024	1.134	1.194	1.214	1.314		
17	0.669	0.779	0.839	0.859	0.959		1-91-30499
33	1.299	1.409	1.469	1.489	1.589		
17	0.669	0.779	0.839	0.859	0.959		1-91-30770
34	1.339	1.449	1.509	1.529	1.629		
17	0.669	0.779	0.839	0.859	0.959		1-91-30796
41	1.614	1.724	1.784	1.804	1.904		
17	0.669	0.779	0.839	0.859	0.959		1-91-30490
44	1.732	1.842	1.902	1.922	2.022		
17	0.669	0.779	0.839	0.859	0.959		9049-0042-00
57	2.244	2.354	2.414	2.434	2.534		
17	0.669	0.779	0.839	0.859	0.959		9049-0077-00
58	2.283	2.393	2.453	2.473	2.573		
17	0.669	0.779	0.839	0.859	0.959		1-91-30771
68	2.677	2.787	2.847	2.867	2.967		
17	0.669	0.779	0.839	0.859	0.959		9049-0150-00
86.5	3.406	3.516	3.576	3.596	3.696		reverse step
17.3	0.669	0.779	0.853	0.873	0.973		247-005-00
32	1.260	1.370	1.430	1.450	1.550		
17.3	0.683	0.793	0.853	0.873	0.973		1-91-30790
44.1	1.736	1.846	1.906	1.926	2.026		
17.3	0.683	0.793	0.853	0.873	0.973		1-91-30472
55	2.165	2.275	2.335	2.355	2.455		

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COMPONENT	COMPONENT	NOZZLE I.D.=	NOZZLE O.D	NOZZLE	NOZZLE	
OUTSIDE	OUTSIDE	COMPONENT	w/o deflectors	MIN O.D.	MAX O.D.	NOZZLE
DIMENSION	DIMENSION	O.D. + .110	A+0.060	B+.020	B+.120	ASSY. No.
(mm)	(Inches)	(+.020/- .000)	(+.020/- .000)	(+.022/- .000)	(+.035/- .015)	
<b>"XY"</b>	<b>"XY"</b>	<b>"A"</b>	<b>"B"</b>	<b>"C"</b>	<b>"D"</b>	
17.5	0.687	0.797	0.857	0.877	0.977	1-91-30803
28.4	1.116	1.226	1.286	1.306	1.406	
17.5	0.689	0.799	0.859	0.879	0.979	1-91-30502
57	2.244	2.354	2.414	2.434	2.534	
18	0.709	0.819	0.879	0.899	0.999	9049-0350-00
20	0.787	0.897	0.957	0.977	1.077	
18	0.709	0.819	0.879	0.899	0.999	1-91-30317
22	0.866	0.976	1.036	1.056	1.156	
18	0.709	0.819	0.879	0.899	0.999	1-91-30265
24	0.945	1.055	1.115	1.135	1.235	
18	0.709	0.819	0.879	0.899	0.999	9049-0361-00
26	1.024	1.134	1.194	1.214	1.314	
18	0.709	0.819	0.879	0.899	0.999	1-91-30899
32	1.260	1.370	1.430	1.450	1.550	
18	0.709	0.819	0.879	0.899	0.999	9049-0385-00
33	1.299	1.409	1.469	1.489	1.589	
18	0.709	0.819	0.879	0.899	0.999	1-91-30478
45	1.772	1.882	1.942	1.962	2.062	
18	0.709	0.819	0.879	0.899	0.999	1-91-30322
55	2.165	2.275	2.335	2.355	2.455	
18.5	0.728	0.838	0.898	0.918	1.018	1-91-30474
26	1.024	1.134	1.194	1.214	1.314	
18.5	0.728	0.838	0.898	0.918	1.018	1-91-30289
28.5	1.122	1.232	1.292	1.312	1.412	
19	0.748	0.858	0.918	0.938	1.038	1-91-30273
25	0.984	1.094	1.154	1.174	1.274	
19	0.748	0.858	0.918	0.938	1.038	1-91-30772
28	1.102	1.212	1.272	1.292	1.392	
19	0.748	0.858	0.918	0.938	1.038	1-91-30455
29	1.142	1.252	1.312	1.332	1.432	
19	0.748	0.858	0.918	0.938	1.038	9049-0102-00
35	1.378	1.488	1.548	1.568	1.668	
19	0.748	0.858	0.918	0.938	1.038	1-91-30923
57	2.244	2.354	2.414	2.434	2.534	
19	0.748	0.858	0.918	0.938	1.038	1-91-30894
65	2.559	2.669	2.729	2.749	2.849	
20	0.787	0.897	0.957	0.977	1.077	1-91-30920
23	0.906	1.016	1.076	1.096	1.196	
20	0.787	0.897	0.957	0.977	1.077	247-018-00
24	0.945	1.055	1.115	1.135	1.235	
20	0.787	0.897	0.957	0.977	1.077	1-91-30311
27	1.063	1.173	1.233	1.253	1.353	
20	0.787	0.897	0.957	0.977	1.077	1-91-30783
30	1.181	1.291	1.351	1.371	1.471	
20	0.787	0.897	0.957	0.977	1.077	9049-0217-00
42	1.654	1.764	1.824	1.844	1.944	
20	0.787	0.897	0.957	0.977	1.077	9049-0177-00
42.5	1.673	1.783	1.843	1.863	1.963	
20	0.787	0.897	0.957	0.977	1.077	1-91-30450
45	1.772	1.882	1.942	1.962	2.062	
20	0.787	0.897	0.957	0.977	1.077	1-91-30782
47	1.850	1.960	2.020	2.040	2.140	
20	0.787	0.897	0.957	0.977	1.077	9049-0069-00
50	1.969	2.079	2.139	2.159	2.259	
20	0.787	0.897	0.957	0.977	1.077	9049-0378-00
55	2.165	2.275	2.335	2.355	2.455	
20	0.787	0.897	0.957	0.977	1.077	1-91-30484
59	2.323	2.433	2.493	2.513	2.613	
20	0.787	0.897	0.957	0.977	1.077	1-91-30774
60	2.362	2.472	2.532	2.552	2.652	
21	0.827	0.937	0.997	1.017	1.117	9049-0117-00
24	0.945	1.055	1.115	1.135	1.235	
21	0.827	0.937	0.997	1.017	1.117	1-91-30266
25	0.984	1.094	1.154	1.174	1.274	

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COMPONENT	COMPONENT	NOZZLE I.D.=	NOZZLE O.D	NOZZLE	NOZZLE		NOZZLE
OUTSIDE	OUTSIDE	COMPONENT	w/o deflectors	MIN O.D.	MAX O.D.		ASSY. No.
DIMENSION	DIMENSION	O.D. + .110	A+0.060	B+.020	B+.120		
(mm)	(Inches)	(+.020/- .000)	(+.020/- .000)	(+.022/- .000)	(+.035/- .015)		
"XY"	"XY"	"A"	"B"	"C"	"D"		
26	1.024	1.134	1.194	1.214	1.314		1-91-30780
37	1.457	1.567	1.627	1.647	1.747		
26	1.024	1.134	1.194	1.214	1.314		9049-0368-00
51	2.008	2.118	2.178	2.198	2.298		
26	1.024	1.134	1.194	1.214	1.314		1-91-30445
64	2.520	2.630	2.690	2.710	2.810		
27	1.063	1.173	1.233	1.253	1.353		1-91-30481
31	1.220	1.330	1.390	1.410	1.510		
27	1.063	1.173	1.233	1.253	1.353		1-91-30291
34	1.339	1.449	1.509	1.529	1.629		
27.50	1.083	1.193	1.253	1.273	1.373		9049-0167-00
35	1.378	1.488	1.548	1.568	1.668		
28	1.102	1.212	1.272	1.292	1.392		247-000-00
36	1.417	1.527	1.587	1.607	1.707		
28	1.102	1.212	1.272	1.292	1.392		1-91-30460
48	1.890	2.000	2.060	2.080	2.180		
28	1.102	1.212	1.272	1.292	1.392		9049-0076-00
51	2.008	2.118	2.178	2.198	2.298		
28	1.102	1.212	1.272	1.292	1.392		9049-0148-00
52	2.047	2.157	2.217	2.237	2.337		
28.5	1.122	1.232	1.292	1.312	1.412		9049-0149-00
52.5	2.067	2.177	2.237	2.257	2.357		
29	1.142	1.252	1.312	1.332	1.432		9049-0186-00
34	1.339	1.449	1.509	1.529	1.629		
29	1.142	1.252	1.312	1.332	1.432		9049-0348-00
37	1.457	1.567	1.627	1.647	1.747		
29	1.142	1.252	1.312	1.332	1.432		9049-0370-00
39	1.535	1.645	1.705	1.725	1.825		
29	1.142	1.252	1.312	1.332	1.432		1-91-30267
42	1.654	1.764	1.824	1.844	1.944		
29	1.142	1.252	1.312	1.332	1.432		9049-0094-00
45	1.772	1.882	1.942	1.962	2.062		
29	1.142	1.252	1.312	1.332	1.432		9049-0124-00
53	2.087	2.197	2.257	2.277	2.377		
29	1.142	1.252	1.312	1.332	1.432		1-91-30469
71	2.795	2.905	2.965	2.985	3.085		
29.5	1.161	1.271	1.331	1.351	1.451		9049-0216-00
47	1.850	1.960	2.020	2.040	2.140		
29.5	1.161	1.271	1.331	1.351	1.451		9049-0318-00
47.5	1.870	1.980	2.040	2.060	2.160		
30	1.181	1.291	1.351	1.371	1.471		1-91-30513
40	1.575	1.685	1.745	1.765	1.865		
30	1.181	1.291	1.351	1.371	1.471		1-91-30293
42	1.654	1.764	1.824	1.844	1.944		
31	1.220	1.330	1.390	1.410	1.510		1-91-30451
35	1.378	1.488	1.548	1.568	1.668		
31	1.220	1.330	1.390	1.410	1.510		1-91-30776
43	1.693	1.803	1.863	1.883	1.983		
31	1.220	1.330	1.390	1.410	1.510		9049-0125-00
47	1.850	1.960	2.020	2.040	2.140		
32	1.260	1.370	1.430	1.450	1.550		1-91-30633
37	1.457	1.567	1.627	1.647	1.747		notched see 9049-0064
32	1.260	1.370	1.430	1.450	1.550		1-91-30801
44	1.732	1.842	1.902	1.922	2.022		
32	1.260	1.370	1.430	1.450	1.550		9049-0087-00
48	1.890	2.000	2.060	2.080	2.180		
32.5	1.280	1.390	1.450	1.470	1.570		1-91-30438
42.5	1.673	1.783	1.843	1.863	1.963		
32.5	1.280	1.390	1.450	1.470	1.570		1-91-30897
43.2	1.700	1.810	1.870	1.890	1.990		
32.87	1.294	1.404	1.464	1.484	1.584		1-91-30889
40.5	1.594	1.704	1.764	1.784	1.884		

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COMPONENT	COMPONENT	NOZZLE I.D.=	NOZZLE O.D	NOZZLE	NOZZLE	
OUTSIDE	OUTSIDE	COMPONENT	w/o deflectors	MIN O.D.	MAX O.D.	NOZZLE
DIMENSION	DIMENSION	O.D. + .110	A+0.060	B+.020	B+.120	ASSY. No.
(mm)	(Inches)	(+.020/- .000)	(+.020/- .000)	(+.022/- .000)	(+.035/- .015)	
<b>"XY"</b>	<b>"XY"</b>	<b>"A"</b>	<b>"B"</b>	<b>"C"</b>	<b>"D"</b>	
33.2	1.307	1.417	1.477	1.497	1.597	1-91-30904
43.3	1.706	1.816	1.876	1.896	1.996	
34	1.339	1.449	1.509	1.529	1.629	1-91-30295
45	1.772	1.882	1.942	1.962	2.062	
34.5	1.358	1.468	1.528	1.548	1.648	1-91-30324
44	1.732	1.842	1.902	1.922	2.022	
36	1.417	1.527	1.587	1.607	1.707	1-91-30491
39	1.535	1.645	1.705	1.725	1.825	
36	1.417	1.527	1.587	1.607	1.707	9049-0375-00
43.5	1.713	1.823	1.883	1.903	2.003	Raised Holes
36	1.417	1.527	1.587	1.607	1.707	9049-0040-00
44	1.732	1.842	1.902	1.922	2.022	
36	1.417	1.527	1.587	1.607	1.707	1-91-30523
46	1.811	1.921	1.981	2.001	2.101	
37	1.457	1.567	1.627	1.647	1.747	1-91-30909
38.9	1.531	1.641	1.701	1.721	1.821	
37	1.457	1.567	1.627	1.647	1.747	9049-0332-00
40	1.575	1.685	1.745	1.765	1.865	
37	1.457	1.567	1.627	1.647	1.747	1-91-30925
44	1.732	1.842	1.902	1.922	2.022	
37	1.457	1.567	1.627	1.647	1.747	1-91-30922
45	1.772	1.882	1.942	1.962	2.062	
37	1.457	1.567	1.627	1.647	1.747	1-91-30479
52.5	2.067	2.177	2.237	2.257	2.357	
37	1.457	1.567	1.627	1.647	1.747	9049-0146-00
59	2.323	2.433	2.493	2.513	2.613	
37.5	1.476	1.586	1.646	1.666	1.766	9049-0194-00
40	1.575	1.685	1.745	1.765	1.865	
38	1.496	1.606	1.666	1.686	1.786	1-91-30916
41	1.614	1.724	1.784	1.804	1.904	
38	1.496	1.606	1.666	1.686	1.786	9049-0078-00
46	1.811	1.921	1.981	2.001	2.101	
38	1.496	1.606	1.666	1.686	1.786	9049-0285-00
77.5	3.051	3.161	3.221	3.241	3.341	rev step
39	1.535	1.645	1.705	1.725	1.825	247-030-00
45	1.772	1.882	1.942	1.962	2.062	
39	1.535	1.645	1.705	1.725	1.825	1-91-30462
49	1.929	2.039	2.099	2.119	2.219	
40	1.575	1.685	1.745	1.765	1.865	1-91-30910
50	1.969	2.079	2.139	2.159	2.259	
40	1.575	1.685	1.745	1.765	1.865	9049-0182-00
52	2.047	2.157	2.217	2.237	2.337	
40	1.575	1.685	1.745	1.765	1.865	1-91-30435
64	2.520	2.630	2.690	2.710	2.810	
41	1.614	1.724	1.784	1.804	1.904	1-91-30476
46	1.811	1.921	1.981	2.001	2.101	
41	1.614	1.724	1.784	1.804	1.904	247-014-00
47	1.850	1.960	2.020	2.040	2.140	
41	1.614	1.724	1.784	1.804	1.904	1-91-30926
51	2.008	2.118	2.178	2.198	2.298	
41	1.654	1.764	1.824	1.844	1.944	9049-0144-00
54	1.811	1.921	1.981	2.001	2.101	
41	1.654	1.764	1.824	1.844	1.944	9049-0143-00
61	1.811	1.921	1.981	2.001	2.101	
42	1.654	1.764	1.824	1.844	1.944	247-010-00
46	1.811	1.921	1.981	2.001	2.101	
42	1.654	1.764	1.824	1.844	1.944	1-91-30781
48	1.890	2.000	2.060	2.080	2.180	
42	1.654	1.764	1.824	1.844	1.944	9049-0108-00
50	1.969	2.079	2.139	2.159	2.259	
42	1.654	1.764	1.824	1.844	1.944	1-91-30885
62	2.441	2.551	2.611	2.631	2.731	
42	1.654	1.764	1.824	1.844	1.944	1-91-30526
64	2.520	2.630	2.690	2.710	2.810	

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COMPONENT	COMPONENT	NOZZLE I.D.=	NOZZLE O.D	NOZZLE	NOZZLE	
OUTSIDE	OUTSIDE	COMPONENT	w/o deflectors	MIN O.D.	MAX O.D.	NOZZLE
DIMENSION	DIMENSION	O.D. + .110	A+0.060	B+.020	B+.120	ASSY. No.
(mm)	(Inches)	(+.020/- .000)	(+.020/- .000)	(+.022/- .000)	(+.035/- .015)	
"XY"	"XY"	"A"	"B"	"C"	"D"	
43	1.693	1.803	1.863	1.883	1.983	1-91-30500
53	2.087	2.197	2.257	2.277	2.377	
44	1.732	1.842	1.902	1.922	2.022	9049-0315-00
55	2.165	2.275	2.335	2.355	2.455	
44	1.732	1.842	1.902	1.922	2.022	1-91-30786
62	2.441	2.551	2.611	2.631	2.731	
44	1.732	1.842	1.902	1.922	2.022	9049-0126-00
77	3.031	3.141	3.201	3.221	3.321	reverse step
45	1.772	1.882	1.942	1.962	2.062	9049-0250-00
54	2.126	2.236	2.296	2.316	2.416	
46.5	1.831	1.941	2.001	2.021	2.121	9049-0276-00
52	2.047	2.157	2.217	2.237	2.337	
47.5	1.870	1.980	2.040	2.060	2.160	1-91-30452
58	2.283	2.393	2.453	2.473	2.573	
48.5	1.909	2.019	2.079	2.099	2.199	9049-0044-00
55.5	2.185	2.295	2.355	2.375	2.475	
49	1.929	2.039	2.099	2.119	2.219	1-91-30785
52	2.047	2.157	2.217	2.237	2.337	
50.5	1.988	2.098	2.158	2.178	2.278	9049-0251-00
60.5	2.382	2.492	2.552	2.572	2.672	reverse step
52	2.047	2.157	2.217	2.237	2.337	1-91-30494
54	2.126	2.236	2.296	2.316	2.416	
52	2.047	2.157	2.217	2.237	2.337	9049-0170-00
58	2.283	2.393	2.453	2.473	2.573	
54	2.126	2.236	2.296	2.316	2.416	9049-0319-00
58	2.283	2.393	2.453	2.473	2.573	
54	2.126	2.236	2.296	2.316	2.416	9049-0043-00
59	2.323	2.433	2.493	2.513	2.613	
54	2.126	2.236	2.296	2.316	2.416	9049-0131-00
63	2.480	2.590	2.650	2.670	2.770	
54	2.126	2.236	2.296	2.316	2.416	9049-0034-00
63.5	2.500	2.610	2.670	2.690	2.790	
54	2.126	2.236	2.296	2.316	2.416	1-91-31089
64	2.520	2.630	2.690	2.710	2.810	
54	2.126	2.236	2.296	2.316	2.416	1-91-30890
66	2.598	2.708	2.768	2.788	2.888	
54	2.126	2.236	2.296	2.316	2.416	1-91-30501
68	2.677	2.787	2.847	2.867	2.967	
55	2.165	2.275	2.335	2.355	2.455	9049-0226-00
65	2.559	2.669	2.729	2.749	2.849	
55	2.165	2.275	2.335	2.355	2.455	9049-0345-00
66	2.598	2.708	2.768	2.788	2.888	
55	2.165	2.275	2.335	2.355	2.455	1-91-30437
70	2.756	2.866	2.926	2.946	3.046	
55	2.165	2.275	2.335	2.355	2.455	9049-0304-00
72	2.835	2.945	3.005	3.025	3.125	
56	2.205	2.315	2.375	2.395	2.495	9049-0169-00
61	2.402	2.512	2.572	2.592	2.692	
57	2.244	2.354	2.414	2.434	2.534	9049-0127-00
69	2.717	2.827	2.887	2.907	3.007	
58	2.283	2.393	2.453	2.473	2.573	9049-0151-00
71	2.795	2.905	2.965	2.985	3.085	special centered
59	2.323	2.433	2.493	2.513	2.613	9049-0320-00
61	2.402	2.512	2.572	2.592	2.692	
59	2.323	2.433	2.493	2.513	2.613	9049-0110-00
61.5	2.421	2.531	2.591	2.611	2.711	special centered
59	2.323	2.433	2.493	2.513	2.613	1-91-31091
61.5	2.421	2.531	2.591	2.611	2.711	special offset
64	2.520	2.630	2.690	2.710	2.810	1-91-30508
70	2.756	2.866	2.926	2.946	3.046	
77.5	3.051	3.161	3.221	3.241	3.341	9049-0286-00
88.5	3.484	3.594	3.654	3.674	3.774	rev step