

# IMPROVEMENT™

1. An increase or advancement in worth, learning, skill, or other excellence.
2. A valuable addition; excellence added or a change for the better.

**C.A. Technologies**

*Improvement™ Line  
Parts for Binks and  
DeVilbiss Spray Guns*



**Improvement™ line for BINKS® Spray Guns**

**BINKS® HVLP**

**Air Caps**

Replaces Binks Air Cap #	CAT Air Cap #	Approx. CFM	Approx. Pattern Width	Compatible Fluid Nozzles
90P	21-1090	6	10	All HVLP fluid nozzles are compatible with HVLP air caps.
91P	21-1091	8	11	
92P	21-1092	8	11	
93P	21-1093	10	12	
94P	21-1094	13	15	
95P	21-1095	20	12	
95PT*	21-1095T	20	12	
97P	21-1097	20	13	
95AP	21-1195	20	13	
97AP	21-1197	20	14	
54-3531 Retaining Ring	21-1001			Actual fluid nozzle air cap combinations will be determined by application.

\*Teflon Coated

**Fluid Nozzles**

**Compatible Fluid Needles**

Replaces Binks Fluid Nozzle #	CAT Standard Fluid Nozzle (1 Piece Nozzle)	CAT Replaceable Tip Fluid Nozzle (2 Piece Nozzle)	Replacement Tip Only	Orifice Diameter	Mach1		M 1-G, SL, FL		Mach 1A (Auto)	
					Binks	CAT	Binks	CAT	Binks	CAT
89	31-1105	31-1205	31-0205	0.5 mm (.020")	54-3940 (Nylon Tip)	41-1102N	54-4381 (Nylon Tip)	41-1202N	47-472 (Nylon Tip)	41-1000N
90	31-1108	31-1208	31-0208	0.8 mm (.022")						
91	31-1110	31-1210	31-0210	1.0 mm (.040")						
92	31-1112	31-1212	31-0212	1.2 mm (.046")						
93	31-1113	31-1213	31-0213	1.3 mm (.052")	54-3941	41-1101	54-4382	41-1201	47-478 (ABSS)	41-1000
94	31-1114	31-1214	31-0214	1.4 mm (.055")						
95	31-1115	31-1215	31-0215	1.5 mm (.059")						
96	31-1116	31-1216	31-0216	1.6 mm (.063")						
97	31-1117	31-1217	31-0217	1.7 mm (.070")						

**Feathering Fluid Nozzles**

**Compatible Fluid Needles**

Replaces Binks Fluid Nozzle #	CAT Standard Fluid Nozzle (1 Piece Nozzle)	CAT Replaceable Tip Fluid Nozzle (2 Piece Nozzle)	Replacement Tip Only	Orifice Diameter	Mach1		M 1-G, SL, FL	
					Binks	CAT	Binks	CAT
92F	31-1312	31-1412	31-0412	1.2 mm (.046")	54-4024	41-1112	54-4389	41-1212
94F	31-1314	31-1414	31-0414	1.4 mm (.055")	54-4026	41-1114	54-4390	41-1214
97F	31-1317	31-1417	31-0417	1.7 mm (.070")	54-4029	41-1117	54-4391	41-1217

**HVLP**

**Repair Kits**

**Improvement™ line Repair Kits for BINKS® Spray Guns**

**BINKS® Repair Kits**

**Complete Gun Rebuild**

**Needle Packing**

**Air Valve**

Binks Gun Model	Replaces Binks Repair Kit #	CAT Part #	Replaces Binks Repair Kit #	CAT Part #	Replaces Binks Repair Kit #	CAT Part #
Mach 1	54-3605	11-1104	54-4261	11-1100	NA	11-1103
95 Gun	54-3577		54-4225		54-4226	
Mach 1 SL & FL	54-4278	11-1105	54-4370	61-1026	NA	
M1-G	54-4367				54-4226	
95G guns	54-3589				NA	
Mach 1A, 95A	54-3980	11-1106	54-4261	11-1100		
2001 Gun	6-229	11-1107	6-231	11-1102		

**Improvement™ line for BINKS® Spray Guns**

**BINKS® Conventional**

**Air Caps**

Replaces Binks Air Cap #	CAT Air Cap #	Approx. CFM	Approx. Pattern Width	Compatible Fluid Nozzles
63P	21-2163	8	8	31-2106 thru 31-2113, 31-2206 thru 31-2213
63PB	21-2263	14	14	
63PE	21-2263-E	15	13	
63PH-1-20	21-2363	13.6	14	
66S	21-2166	5	9	31-2106 thru 31-2117, 31-2206 thru 31-2217
66SD	21-2266	12	10	
66SD-3	21-2266-3	16.2	15	
66SH	21-2366	12	12	
66SK	21-2466	15	13	
67PB	21-2167	14.5	12	31-2117, 31-2122, 31-2217 thru 31-2222
67PD	21-2267	15	15	
68PB	21-2168	14	12	
200	21-200*	5.2	12	*Requires 21-1584 Ring and 21-1583 Base (order separately)
262	21-2262*	11	6	Requires 21-205 Retaining Ring
R3	21-223	3 @ 30 PSI	10	

**Conventional**

Binks and 2001 are registered trademarks of Illinois Tool Works Inc.

DeVilbiss is a registered trademark of Illinois Tool Works Inc.

**Improvement™ line for BINKS® Spray Guns**

**BINKS® Conventional**

**Conventional**

**Fluid Nozzles**

**Compatible Fluid Needles**

Replaces Binks Fluid Nozzle #	CAT Standard Fluid Nozzle (1 Piece Nozzle)	CAT Replaceable Tip Fluid Nozzle (2 Piece Nozzle)	Replacement Tip Only	Orifice Diameter	2001®		95		18		95A (Auto)	
					Binks	CAT	Binks	CAT	Binks	CAT	Binks	CAT
62 SS	31-2106	31-2206	31-0606	0.6 mm (.022")	563	41-2507	663	41-2607	63	41-2707	763	41-0607
63 SS	31-2107	31-2207	31-0607	0.7 mm (.028")								
63A SS	31-2110	31-2210	31-0610	1.0 mm (.040")								
63B SS	31-2112	31-2212	31-0612	1.2 mm (.046")	563A	41-2510	663A	41-2610	63A	41-2710	763A	41-0610
63C SS	31-2113	31-2213	31-0613	1.3 mm (.052")								
65 SS	31-2115	31-2215	31-0615	1.5 mm (.059")	565	41-2515	665	41-2615	65	41-2715	765	41-0615
66 SS	31-2118	31-2218	31-0618	1.8 mm (.070")								
67 SS	31-2122*	31-2222	31-0622	2.2 mm (.086")	567	41-2522	667	41-2622	67	41-2722	767	41-0622
68 SS	31-2128*	31-2228	31-0628	2.8 mm (.110")	568	41-2528	668	41-2628	68	41-2728	768	41-0628
66VT	NA	31-2218V**	31-0618V**	1.8 mm (.070")	563VT	41-6518**	666VT	41-6618**	66VT	41-6713	766VT	41-5613**
67VT	NA	31-2222V**	31-0622V**	2.2 mm (.086")	567VT	41-6522**	667VT	41-6622**	67VT	41-6722	767VT	41-5622**
68VT	NA	31-2228V**	31-0628V**	2.8 mm (.110")	568VT	41-6528**	668VT	41-6628**	68VT	41-6728	768VT	41-5628**
57SS	31-2157	NA	NA	5.54 mm (.218")	41-2900 Replaces Binks 54-1209 Needle							
59CSS	31-2171	NA	NA	7.14 mm (.281")	41-2471 Replaces Binks 259 Needle							

Note: Actual fluid nozzle and air cap combinations are determined by application.

\*\*For abrasive materials

\*For Zinc order 31-2122Z or 31-2128Z

\*\*\*Replace tip installation socket 3/8 x 1/4 drive P/N 98-0104

**Improvement™ line for DeVilbiss® Spray Guns**

**DeVilbiss® HVLP**

**HVLP**

**Air Caps**

Replaces DeVilbiss Air Cap #	CAT Air Cap #	Approx. CFM	Approx. Pattern Width	Compatible Fluid Nozzles
28 HVLP	22-1028**	18	11	32-2111 thru 32-2118, 32-2318, 32-2211 thru 32-2218, 32-2418
33 HVLP	22-1033**	18	9	
46MP HVLP	22-1046	22	11	32-1111 thru 32-1118, 32-1211 thru 32-1218
83MP HVLP	22-1083	22	13	32-1118, 32-1122, 32-1218, 32-1222
57 GTI HVLP	22-1057**	10	12	32-2111 thru 32-2118, 32-2318, 32-2211 thru 32-2218, 32-2418
100 GTI HVLP	22-1100	20	12	
2000 GTI HVLP	22-2004**	15.5	10	
MCB 368 Retaining Ring	22-1001			

\*\*Available while supplies last

**Fluid Nozzles**

**Compatible Fluid Needles**

Replaces DeVilbiss Fluid Nozzle #	CAT Standard Fluid Nozzle (1 Piece Nozzle)	CAT Replaceable Tip Fluid Nozzle (2 Piece Nozzle)	Replacement Tip Only	Orifice Diameter	JGHV		AGXV	
					DeVilbiss	CAT	DeVilbiss	CAT
AV-2120-FX	32-1111	32-1211	32-0211	1.1 mm (.042")	JGA-421-FX	42-1311	AGX-440-FX	42-1511
AV-2120-FF	32-1114	32-1214	32-0214	1.4 mm (.055")	JGA-421-FF	42-1314	AGX-440-FF	42-1514
AV-2120-E	32-1118**	32-1218	32-0218	1.8 mm (.070")	JGA-421-E	42-1318		
AV-2120-D	32-1122	32-1222	32-0222	2.2 mm (.086")	JGA-421-DEX	42-1322		

\*\*Available while supplies last

**Improvement™ line for DeVilbiss® Spray Guns**

**DeVilbiss® Conventional**

**Conventional**

**Air Caps**

Replaces DeVilbiss Air Cap #	CAT Air Cap #	Approx. CFM	Approx. Pattern Width	Compatible Fluid Nozzles
30	22-2030**	12	9	32-2111 thru 32-2118, 32-2318, 32-2211 thru 32-2218, 32-2418
58	22-2058	6	9	
62HD*	22-2062	19	8	
64HD*	22-2064	22	14	
80	22-2080	14	13	
704	22-2704	21	11	
765	22-2765**	22	15	
777	22-2777**	23	13	
797	22-2797	21	17	
880	22-2880	15	12	
9000	22-2900	12	10	32-2111 thru 32-2118, 32-2318, 32-2211 thru 32-2218, 32-2418
MBC 368 Retaining Ring	22-1001			

\*Available with teflon coating 22-2062T - 22-2064T

\*\*Available while supplies last

**Fluid Nozzles**

**Compatible Fluid Needles**

Replaces DeVilbiss Fluid Nozzle #	CAT Standard Fluid Nozzle (1 Piece Nozzle)	CAT Replaceable Tip Fluid Nozzle (2 Piece Nozzle)	Replacement Tip Only	Orifice Diameter	JGA		AGX & MBC	
					DeVilbiss	CAT	DeVilbiss	CAT
AV-650-FX	32-2111	32-2211	32-0611	1.1 mm (.042")	JGA-421-FX	42-1311	AGX-440-FX	42-1511
AV-650-FF	32-2114	32-2214	32-0614	1.4 mm (.055")	JGA-421-FF	42-1314	AGX-440-FF	42-1514
AV-650-E	32-2118(Z)*	32-2218	32-0618	1.8 mm (.070")	JGA-421-E	42-1318	MBC-444-E	42-1418
AV-650-EX	32-2318	32-2418	32-0818	1.8 mm (.070")	JGA-421-DEX	42-1322	MBC-496-DEX	42-1422
AV-650-D	32-2122(Z)*	32-2222	32-0622	2.2 mm (.086")				
AV-650-C	32-2128(Z)*	NA	NA	2.8 mm (.110")	JGA-421-C	42-1328	MBC-496-C	42-1428

\*For Zinc, uses delrin tip specify (Z)

Binks and 2001 are registered trademarks of Illinois Tool Works Inc.

DeVilbiss is a registered trademark of Illinois Tool Works Inc.

## Why only replace when you can improve?

The IMPROVEMENT™ line of spray gun replacement parts from C.A.Technologies offers more value than just replacement parts. Many parts have been re-engineered to add features that will benefit the user, such as lighter weight air caps, hardened fluid nozzles, and replaceable fluid orifices. As professionals with over a half century of combined experience in the design and manufacture of spray finishing equipment, C.A.Technologies uses their knowledge and expertise to produce high quality, innovative products for the coating application industry.

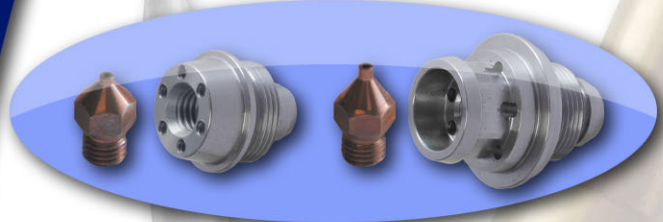
**C.A.Technologies**



**Coating Atomization Technologies**  
A Colorado limited liability company

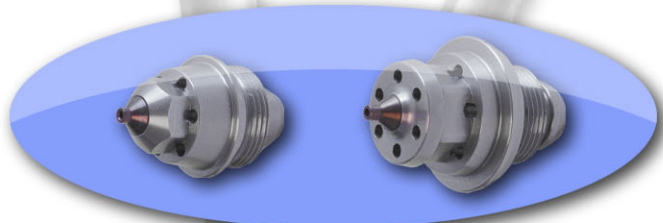
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### Fluid Nozzles (Two Piece)



C.A.Technologies manufactures a two piece replacement fluid nozzle which enables the user to replace the fluid orifice/needle seat separately for considerably less cost. Fluid orifices are made of hardened 17-4PH stainless steel for long wear. Two piece fluid nozzles are otherwise interchangeable with standard nozzles.

### Fluid Nozzles (One Piece)



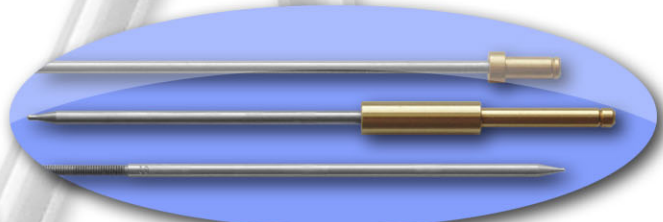
Standard one piece fluid nozzles are intended to be a direct replacement/improvement for Binks and DeVilbiss fluid nozzles. The one piece design is actually a two part fabrication with the body made of 300 series stainless steel and the fluid orifice/needle seat made of hardened 17-4PH stainless steel to increase wear life.

### Air Caps



C.A.Technologies replacement air caps are manufactured from a high strength aluminum alloy rather than brass to reduce weight without sacrificing durability. Each air cap is individually tested and guaranteed to produce the same quality atomization and spray pattern as the OEM air caps.

### Fluid Needles



Replacement needles are made of 300 series stainless steel and precision manufactured to a micro-smooth finish on the tip and packing wear areas to insure proper sealing and maximize packing life.

### Repair Kits

C.A.Technologies also offers spray gun repair kits of the highest quality and durability.