

EXCEPTIONAL WEAR RESISTANCE – 30 TIMES GREATER THAN STAINLESS STEEL



FEATURES AND BENEFITS

- Erosion- and corrosion-resistant tungsten carbide orifice insert provides long wear life
- Flat spray pattern with tapered edges provides even coverage when sprays overlap
- Tip orifice insert is recessed in a stainless steel tip body to protect against damage
- Can be used with a wide range of assemblies and extensions
- 12728 TC tips are available for plywood glue applications
Request data sheet number 14518 for more information



IDEAL FOR:

- Paint spraying
- Automotive sealants and protective coatings
- Airless paint spraying
- Applying slurry to ceramic tiles

SPECIFICATIONS:

Maximum pressure: 3000 psi (207 bar)

Spray pattern: Flat spray

Materials: Stainless steel with tungsten carbide orifice insert

ORDERING INFORMATION

HIGH-PRESSURE TC TIPS



Example



PERFORMANCE DATA: HIGH-PRESSURE TC TIPS

Spray Angle at 40 psi	Capacity Size	Equiv. Orifice Dia. (in.)	Capacity* (gallons per minute)					Approx.** Spray Pattern Width (in.) at 1 ft. distance
			500 psi	1000 psi	1500 psi	2000 psi	3000 psi	
110°	0017	.011	.06	.09	.10	.12	.15	15-1/2
	0025	.013	.09	.12	.15	.18	.22	16-1/2
	0033	.015	.12	.16	.20	.23	.29	17
	0039	.016	.14	.20	.24	.28	.34	18
	0050	.018	.18	.25	.30	.36	.44	19
	0067	.021	.24	.33	.41	.47	.59	21
	0080	.023	.28	.40	.49	.57	.69	22
	01	.026	.35	.50	.61	.72	.86	23
	015	.031	.53	.75	.91	1.1	1.3	25
	02	.036	.71	1.0	1.2	1.4	1.7	26
	03	.043	1.1	1.5	1.8	2.1	2.7	27
	04	.052	1.4	2.0	2.5	2.8	3.4	28
	05	.057	1.8	2.5	3.1	3.5	4.4	28
	053	.058	1.9	2.7	3.2	3.7	4.7	28
	06	.062	2.1	3.0	3.7	4.2	5.1	28
	07	.067	2.5	3.5	4.3	5.0	6.1	28
	08	.072	2.8	4.0	4.9	5.7	6.9	28
	09	.076	3.2	4.5	5.5	6.4	7.8	28
	10	.078	3.5	5.0	6.1	7.1	8.6	28
11	.083	3.9	5.5	6.7	7.8	9.6	28	
12	.089	4.3	6.0	7.4	8.5	10.5	28	
95°	0017	.011	.06	.08	.10	.12	.15	13
	0025	.013	.09	.12	.15	.18	.22	14
	0033	.015	.12	.16	.20	.23	.29	15
	0039	.016	.14	.20	.24	.28	.34	16
	0044	.017	.16	.22	.27	.31	.39	16
	0050	.018	.18	.25	.30	.36	.44	17
	0067	.021	.24	.33	.41	.47	.59	19
	0080	.023	.28	.40	.49	.57	.69	19
	01	.026	.35	.50	.61	.72	.86	21
	015	.031	.53	.75	.91	1.1	1.3	21
	02	.036	.71	1.0	1.2	1.4	1.7	22
	03	.043	1.1	1.5	1.8	2.1	2.7	22
	04	.052	1.4	2.0	2.5	2.8	3.4	23
	05	.057	1.8	2.5	3.1	3.5	4.4	23
	06	.062	2.1	3.0	3.7	4.2	5.1	23
	07	.067	2.5	3.5	4.3	5.0	6.1	23
	08	.072	2.8	4.0	4.9	5.7	6.9	23
	09	.076	3.2	4.5	5.5	6.4	7.8	23
	10	.078	3.5	5.0	6.1	7.1	8.6	23
	11	.085	3.9	5.5	6.7	7.8	9.6	23
12	.089	4.3	6.0	7.4	8.5	10.5	23	
13	.092	4.6	6.5	8.0	9.2	11.3	23	
14	.095	4.9	7.0	8.6	9.9	12.0	23	
15	.099	5.3	7.5	9.2	10.6	13.0	23	
16	.100	5.7	8.0	9.8	11.3	14.0	23	
18	.104	6.4	9.0	11.0	12.7	15.7	23	
20	.109	7.1	10.0	12.2	14.1	17.4	23	

Spray Angle at 40 psi	Capacity Size	Equiv. Orifice Dia. (in.)	Capacity* (gallons per minute)					Approx.** Spray Pattern Width (in.) at 1 ft. distance
			500 psi	1000 psi	1500 psi	2000 psi	3000 psi	
80°	0011	.009	.04	.06	.07	.08	.10	10-1/2
	0017	.011	.06	.08	.10	.12	.15	11-1/2
	0025	.013	.09	.12	.15	.18	.22	12-1/2
	0033	.015	.12	.16	.20	.23	.29	13
	0039	.016	.14	.20	.24	.28	.34	14
	0050	.018	.18	.25	.30	.36	.44	15
	0067	.021	.24	.33	.41	.47	.59	17
	0080	.023	.28	.40	.49	.57	.69	17
	01	.026	.35	.50	.61	.72	.86	19
	015	.031	.53	.75	.91	1.1	1.3	19
	02	.036	.71	1.0	1.2	1.4	1.7	19
	03	.043	1.1	1.5	1.8	2.1	2.7	19
	04	.052	1.4	2.0	2.5	2.8	3.4	19
	05	.057	1.8	2.5	3.1	3.5	4.4	19
	06	.062	2.1	3.0	3.7	4.2	5.1	19
	07	.067	2.5	3.5	4.3	5.0	6.1	19
	08	.072	2.8	4.0	4.9	5.7	6.9	19
	09	.076	3.2	4.5	5.5	6.4	7.8	19
	10	.078	3.5	5.0	6.1	7.1	8.6	19
11	.085	3.9	5.5	6.7	7.8	9.6	19	
12	.089	4.3	6.0	7.4	8.5	10.5	19	
13	.093	4.6	6.5	8.0	9.2	11.3	19	
14	.096	4.9	7.0	8.6	9.9	12.0	19	
15	.099	5.3	7.5	9.2	10.6	13.0	19	
73°	0023	.012	.08	.11	.14	.16	.20	11-1/2
	0039	.016	.14	.20	.24	.28	.34	13
	0044	.017	.17	.22	.27	.31	.42	13
	0050	.018	.18	.25	.31	.35	.44	13
	0154	.031	.54	.77	.94	1.1	1.3	13
65°	0008	.007	.03	.04	.05	.06	.07	8-1/2
	0011	.009	.04	.06	.07	.08	.10	9-1/4
	0017	.011	.06	.08	.10	.12	.15	10
	0025	.013	.09	.12	.15	.18	.22	10-1/2
	0033	.015	.12	.16	.20	.23	.29	11
	0039	.016	.14	.20	.24	.28	.34	12
	0044	.017	.16	.22	.27	.31	.39	12-1/2
	0050	.018	.18	.25	.30	.36	.44	13
	0055	.019	.19	.28	.34	.39	.47	13
	0067	.021	.24	.33	.41	.47	.59	15
	0080	.023	.28	.40	.49	.57	.69	15
	01	.026	.35	.50	.61	.72	.86	16
	015	.031	.53	.75	.91	1.1	1.3	16
	02	.036	.71	1.0	1.2	1.4	1.7	16
	03	.043	1.1	1.5	1.8	2.1	2.7	16
	04	.052	1.4	2.0	2.5	2.8	3.4	16
	05	.057	1.8	2.5	3.1	3.5	4.4	16
	06	.062	2.1	3.0	3.7	4.2	5.1	16
	07	.067	2.5	3.5	4.3	5.0	6.1	16
	08	.072	2.8	4.0	4.9	5.7	6.9	16
09	.076	3.2	4.5	5.5	6.4	7.8	16	
10	.078	3.5	5.0	6.1	7.1	8.6	16	
11	.085	3.9	5.5	6.7	7.8	9.6	16	
12	.089	4.3	6.0	7.4	8.5	10.5	16	
13	.093	4.6	6.5	8.0	9.2	11.3	16	
14	.096	4.9	7.0	8.6	9.9	12.0	16	
15	.099	5.3	7.5	9.2	10.6	13.0	16	
17	.102	6.0	8.5	10.4	12.0	14.7	16	
20	.109	7.1	10.0	12.2	14.1	17.4	16	

* Tabulated capacities based on water.

** Spray pattern width is based on liquid with viscosity of 20 seconds, #4 Zahn Cup spraying at 1600 psi (110 bar). Coverage will vary with viscosities and pressures.



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HIGH-PRESSURE TC TIPS

PERFORMANCE DATA: HIGH-PRESSURE TC TIPS

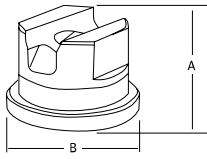
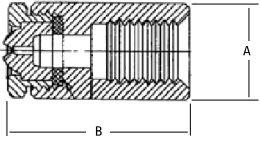
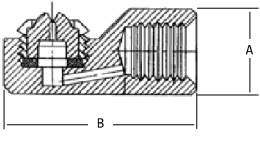
Spray Angle at 40 psi	Capacity Size	Equiv. Orifice Dia. (in.)	Capacity* (gallons per minute)					Approx.** Spray Pattern Width (in.) at 1 ft. distance
			500 psi	1000 psi	1500 psi	2000 psi	3000 psi	
50°	0004	.005	.01	.02	.02	.03	.03	6-1/2
	0006	.006	.02	.03	.04	.04	.05	7
	0008	.007	.03	.04	.05	.06	.07	7-3/4
	0011	.009	.04	.06	.07	.08	.10	8
	0017	.011	.06	.08	.10	.12	.15	8-1/2
	0025	.013	.09	.12	.15	.18	.22	9
	0033	.015	.12	.16	.20	.23	.29	10
	0039	.016	.14	.20	.24	.28	.34	10-1/2
	0044	.017	.16	.22	.27	.31	.39	10-1/2
	0050	.018	.18	.25	.30	.36	.44	11
	0055	.019	.19	.28	.34	.39	.47	11
	0067	.021	.24	.33	.41	.47	.59	12
	0080	.023	.28	.40	.49	.57	.69	13
	01	.026	.35	.50	.61	.72	.86	14
	015	.031	.53	.75	.91	1.1	1.3	14
02	.036	.71	1.0	1.2	1.4	1.7	14	
03	.043	1.1	1.5	1.8	2.1	2.7	14	
04	.052	1.4	2.0	2.5	2.8	3.4	14	
05	.057	1.8	2.5	3.1	3.5	4.4	14	
06	.062	2.1	3.0	3.7	4.2	5.1	14	
07	.067	2.5	3.5	4.3	5.0	6.1	14	
08	.072	2.8	4.0	4.9	5.7	6.9	14	
10	.078	3.5	5.0	6.1	7.1	8.6	14	
15	.099	5.3	7.5	9.2	10.6	13.0	14	
40°	0004	.005	.01	.02	.03	.03	.03	6-1/2
	0006	.006	.02	.03	.04	.04	.05	6-1/2
	0008	.007	.03	.04	.05	.06	.07	6-1/2
	0011	.009	.04	.06	.07	.08	.10	7
	0017	.011	.06	.08	.10	.12	.15	7-1/2
	0025	.013	.09	.12	.15	.18	.22	8
	0033	.015	.12	.16	.20	.23	.29	8-1/2
	0039	.016	.14	.20	.24	.28	.34	9
	0044	.017	.16	.22	.27	.31	.39	9-1/2
	0050	.018	.18	.25	.30	.36	.44	10
	0055	.019	.19	.28	.34	.39	.47	10
	0067	.021	.24	.33	.41	.47	.59	11
	0080	.023	.28	.40	.49	.57	.69	11
	01	.026	.35	.50	.61	.72	.86	12
	013	.029	.46	.65	.80	.92	1.1	12
015	.031	.53	.75	.91	1.1	1.3	12	
02	.036	.71	1.0	1.2	1.4	1.7	12	
03	.043	1.1	1.5	1.8	2.1	2.7	12	
04	.052	1.4	2.0	2.5	2.8	3.4	12	
05	.057	1.8	2.5	3.1	3.5	4.4	12	
06	.062	2.1	3.0	3.7	4.2	5.1	12	
07	.067	2.5	3.5	4.3	5.0	6.1	12	
08	.072	2.8	4.0	4.9	5.7	6.9	12	
09	.076	3.2	4.5	5.5	6.4	7.8	12	
10	.078	3.5	5.0	6.1	7.1	8.6	12	
11	.083	3.9	5.5	6.7	7.8	9.6	12	
15	.099	5.3	7.5	9.2	10.6	13.0	12	
25°	0004	.005	.01	.02	.03	.03	.03	5
	0006	.006	.02	.03	.04	.04	.05	5
	0008	.007	.03	.04	.05	.06	.07	5-1/2
	0011	.009	.04	.06	.07	.08	.10	5-1/2
	0017	.011	.06	.08	.10	.12	.15	6
	0025	.013	.09	.12	.15	.18	.22	6
	0033	.015	.12	.16	.20	.23	.29	7
	0039	.016	.14	.20	.24	.28	.34	7
	0050	.018	.18	.25	.30	.36	.44	7
	0055	.019	.19	.28	.34	.39	.47	7
	0067	.021	.24	.33	.41	.47	.59	8
	0080	.023	.28	.40	.49	.57	.69	8-1/2
	01	.026	.35	.50	.61	.72	.86	9
	015	.031	.53	.75	.91	1.1	1.3	9
	02	.036	.71	1.0	1.2	1.4	1.7	9
03	.043	1.1	1.5	1.8	2.1	2.7	9	
04	.052	1.4	2.0	2.5	2.8	3.4	9	
05	.057	1.8	2.5	3.1	3.5	4.4	9	
06	.062	2.1	3.0	3.7	4.2	5.1	9	
08	.072	2.8	4.0	4.9	5.7	6.9	9	
10	.078	3.5	5.0	6.1	7.1	8.6	9	
15°	0004	.005	.01	.02	.03	.03	.03	4
	0006	.006	.02	.03	.04	.04	.05	4
	0008	.007	.03	.04	.05	.06	.07	4-1/2
	0011	.009	.04	.06	.07	.08	.10	4-1/2
	0017	.011	.06	.08	.10	.12	.15	5
	0025	.013	.09	.12	.15	.18	.22	5
	0033	.015	.12	.16	.20	.23	.29	5-1/2
	0039	.016	.14	.20	.24	.28	.34	6
	0044	.017	.16	.22	.27	.31	.39	6
	0050	.018	.18	.25	.30	.36	.44	6
	0067	.021	.24	.33	.41	.47	.59	6-1/2
	0080	.023	.28	.40	.49	.57	.69	7
	01	.026	.35	.50	.61	.72	.86	7
	015	.031	.53	.75	.91	1.1	1.3	7
	02	.036	.71	1.0	1.2	1.4	1.7	7
03	.043	1.1	1.5	1.8	2.1	2.7	7	
04	.052	1.4	2.0	2.5	2.8	3.4	7	
05	.057	1.8	2.5	3.1	3.5	4.4	7	
06	.062	2.1	3.0	3.7	4.2	5.1	7	
07	.067	2.5	3.5	4.3	4.9	6.1	7	
08	.072	2.8	4.0	4.9	5.7	6.9	7	
10	.078	3.5	5.0	6.1	7.1	8.6	7	
15	.099	5.3	7.5	9.2	10.6	13.0	7	
10°	0004	.005	.01	.02	.03	.03	.03	3
	0006	.006	.02	.03	.04	.04	.05	3
	0008	.007	.03	.04	.05	.06	.07	3-1/2
	0011	.009	.04	.06	.07	.08	.10	3-1/2
	0017	.011	.06	.08	.10	.12	.15	4
	0025	.013	.09	.12	.15	.18	.22	4
	0033	.015	.12	.16	.20	.23	.29	4-1/2
	0039	.016	.14	.20	.24	.28	.34	5
	0050	.018	.18	.25	.30	.36	.44	5
	0067	.021	.24	.33	.41	.47	.59	5-1/2
	0080	.023	.28	.40	.49	.57	.69	5-1/2
	01	.026	.35	.50	.61	.72	.86	6
	015	.031	.53	.75	.91	1.1	1.3	6
	02	.036	.71	1.0	1.2	1.4	1.7	6
	5°	0004	.005	.01	.02	.03	.03	.03
0008		.007	.03	.04	.05	.06	.07	2-1/2
0011		.009	.04	.06	.07	.08	.10	2-1/2
0017		.011	.06	.08	.10	.12	.15	3
0025		.013	.09	.12	.15	.18	.22	3
0033		.015	.12	.16	.20	.23	.29	3-1/2
0039		.016	.14	.20	.24	.28	.34	4
0050		.018	.18	.25	.30	.36	.44	4
0067		.021	.24	.33	.41	.47	.59	4
01		.026	.35	.50	.61	.72	.86	4
015		.031	.53	.75	.91	1.1	1.3	4
02		.036	.71	1.0	1.2	1.4	1.7	4
03		.043	1.1	1.5	1.8	2.1	2.7	4

* Tabulated capacities based on water.

** Spray pattern width is based on liquid with viscosity of 20 seconds, #4 Zahn Cup spraying at 1600 psi (110 bar). Coverage will vary with viscosities and pressures.





DIMENSIONS AND WEIGHTS

	Nozzle	A (in.)	B (in.)	Net Weight (oz.)
	TP-TC	.5	.594	.357
	12020-TM-TC 9501*	.370	.734	.24
	12017-TM-TC 9501*	.370	.844	.28

Based on largest/heaviest version of each type.

*Request data sheets 14644, 14644-1 and 14644-2 for more information.

EXTENSIONS AND ASSEMBLIES

Extension	Extension Type	Max. Pressure psi	Inlet Conn. in.	Material	Lengths in.	Special Features
	9702A	2000	11/16–16 UniJet THD	Mild steel	8 10 18 24 30 36 48 60	Projects spray at 90° angle to inlet Refer to Data Sheet 9702-1
	9702C	2000	11/16–16 UniJet THD	Mild steel	8 10 18 24 30 36 48 60	Curved extension Refer to Data Sheet 9702-1

Wide range of extensions available request data sheets 9702-1, 9702-1 and 9018 for more information



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