

FOR STANDARD SPRAYERS

COMBO-JET® 80° Tip-Cap Performance Specifications

Please Note: 1. Flow rates based on water (80°F), applied at 20" spacing. 2. For applications where a uniform pattern is required, recommended pressure ranges for Tip-Caps are shown. 3. Cap color determined by flow rate, as per ISO standard. 4. In order to make this chart easier to use, not all available tip-cap sizes are shown. For specifications for 005, 0067, 30, 40, 50 & 60 size Tip-Caps, visit our website.										ER80-XX TIP SERIES <small>Recommended Pressure: 20-70 PSI</small>				SR80-XX TIP SERIES <small>Recommended Pressure: 20-100 PSI</small>				MR80-XX TIP SERIES <small>Recommended Pressure: 25-100 PSI</small>				DR80-XX TIP SERIES <small>Recommended Pressure: 30-100 PSI</small>				SPRAY TIP PART #		
Tip Cap No.	Flow Rate USGPM	PSI	Application Rate - US Gallons / Acre @ 20"								VMD (Droplet Size in μ); %<141μ (Drift %); %<200μ (Drift %); %<600μ (Small Droplets)																Tip-Cap & Part No.	
			Sprayer Speed - Miles / Hour								80° ER Series				80° SR Series				80° MR Series				80° DR Series				Tip-Cap	Part #
			5.0	7.5	10.0	12.5	15.0	17.5	20.0	VMD	<141	<200	<600	VMD	<141	<200	<600	VMD	<141	<200	<600	VMD	<141	<200	<600	Strainer part #		
01	0.07	20	4.2	2.8	2.1	1.7	1.4	1.2	1.1	175	29%	64%	100%	292	8%	22%	97%	218	23%	44%	97%	312	10%	21%	94%	ER80-01	40270-01	
	0.09	30	5.1	3.4	2.6	2.1	1.7	1.5	1.3	156	41%	74%	100%	233	21%	39%	97%	218	23%	44%	97%	312	10%	21%	94%	SR80-01	40288-01	
	0.10	40	5.9	4.0	3.0	2.4	2.0	1.7	1.5	143	49%	81%	100%	199	29%	51%	97%	191	30%	54%	97%	274	14%	29%	96%	MR80-01	40290-01	
	0.11	50	6.6	4.4	3.3	2.7	2.2	1.9	1.7	134	56%	87%	100%	176	36%	61%	98%	173	36%	61%	97%	248	17%	34%	98%	DR80-01	40280-01	
	0.12	60	7.3	4.8	3.6	2.9	2.4	2.1	1.8	128	62%	91%	100%	159	41%	68%	98%	159	40%	68%	97%	229	19%	39%	99%	100 Mesh - Green		
015	0.13	70	7.9	5.2	3.9	3.1	2.6	2.2	2.0	122	66%	95%	100%	146	46%	75%	98%	148	44%	73%	97%	214	21%	43%	100%	40251-00		
	0.11	20	6.3	4.2	3.2	2.5	2.1	1.8	1.6	199	21%	50%	100%	317	8%	19%	93%	-	-	-	-	-	-	-	-	ER80-015	40270-015	
	0.13	30	7.7	5.1	3.9	3.1	2.6	2.2	1.9	180	29%	59%	100%	262	16%	32%	95%	323	10%	21%	94%	418	4%	9%	87%	SR80-015	40288-015	
	0.15	40	8.9	5.9	4.5	3.6	3.0	2.5	2.2	167	34%	65%	100%	230	22%	41%	96%	283	14%	28%	96%	380	6%	12%	90%	MR80-015	40290-015	
	0.17	50	10.0	6.6	5.0	4.0	3.3	2.8	2.5	158	39%	70%	100%	207	26%	48%	97%	256	17%	34%	97%	353	7%	15%	92%	DR80-015	40280-015	
02	0.18	60	10.9	7.3	5.5	4.4	3.6	3.1	2.7	151	42%	74%	100%	191	30%	54%	97%	236	20%	38%	98%	332	8%	17%	94%	100 Mesh - Green		
	0.20	70	11.8	7.9	5.9	4.7	3.9	3.4	2.9	145	46%	77%	100%	177	33%	58%	98%	220	22%	42%	99%	316	9%	19%	95%	40251-00		
	0.14	20	8.4	5.6	4.2	3.4	2.8	2.4	2.1	184	28%	57%	100%	295	9%	21%	93%	-	-	-	-	-	-	-	-	ER80-02	40270-02	
	0.17	30	10.3	6.9	5.1	4.1	3.4	2.9	2.6	170	34%	62%	100%	257	16%	31%	95%	326	8%	18%	94%	454	3%	7%	80%	SR80-02	40288-02	
	0.20	40	11.9	7.9	5.9	4.8	4.0	3.4	3.0	161	38%	66%	100%	233	20%	38%	96%	298	11%	24%	94%	419	4%	10%	84%	MR80-02	40290-02	
025	0.22	50	13.3	8.9	6.6	5.3	4.4	3.8	3.3	155	42%	70%	100%	216	24%	44%	97%	277	14%	28%	95%	394	5%	12%	87%	DR80-02	40280-02	
	0.24	60	14.5	9.7	7.3	5.8	4.8	4.2	3.6	150	45%	72%	100%	203	27%	48%	98%	262	16%	31%	95%	375	6%	14%	88%	50 Mesh - Red		
	0.26	70	15.7	10.5	7.9	6.3	5.2	4.5	3.9	145	47%	74%	99%	193	30%	52%	98%	249	17%	34%	95%	359	7%	15%	90%	40250-00		
	0.18	20	10.5	7.0	5.3	4.2	3.5	3.0	2.6	232	17%	38%	100%	341	6%	15%	89%	-	-	-	-	-	-	-	-	ER80-025	40270-025	
	0.22	30	12.9	8.6	6.4	5.1	4.3	3.7	3.2	209	23%	46%	100%	296	11%	24%	93%	425	5%	10%	81%	460	3%	8%	77%	SR80-025	40288-025	
03	0.25	40	14.9	9.9	7.4	5.9	5.0	4.2	3.7	194	28%	51%	100%	268	15%	30%	94%	382	6%	14%	85%	430	4%	10%	81%	MR80-025	40290-025	
	0.28	50	16.6	11.1	8.3	6.6	5.5	4.7	4.2	182	31%	56%	100%	248	18%	35%	95%	353	8%	17%	87%	408	5%	12%	83%	DR80-025	40280-025	
	0.31	60	18.2	12.1	9.1	7.3	6.1	5.2	4.5	174	34%	59%	100%	233	20%	39%	96%	330	9%	19%	89%	391	6%	13%	85%	50 Mesh - Red		
	0.33	70	19.6	13.1	9.8	7.9	6.5	5.6	4.9	167	37%	62%	100%	221	22%	42%	97%	312	10%	21%	90%	377	7%	15%	86%	40250-00		
	0.21	20	12.6	8.4	6.3	5.0	4.2	3.6	3.2	249	17%	38%	99%	400	5%	9%	86%	-	-	-	-	-	-	-	-	ER80-03	40270-03	
04	0.26	30	15.4	10.3	7.7	6.2	5.1	4.4	3.9	228	23%	45%	99%	344	9%	17%	89%	432	5%	10%	81%	481	3%	7%	72%	SR80-03	40288-03	
	0.30	40	17.8	11.9	8.9	7.1	5.9	5.1	4.5	215	26%	49%	99%	309	12%	23%	91%	390	7%	14%	85%	447	4%	9%	77%	MR80-03	40290-03	
	0.34	50	19.9	13.3	10.0	8.0	6.6	5.7	5.0	205	29%	53%	99%	285	15%	27%	92%	360	8%	17%	88%	422	5%	11%	80%	DR80-03	40280-03	
	0.37	60	21.8	14.5	10.9	8.7	7.3	6.2	5.5	197	32%	55%	99%	266	17%	31%	93%	337	9%	19%	89%	403	6%	13%	83%	50 Mesh - Red		
	0.40	70	23.6	15.7	11.8	9.4	7.9	6.7	5.9	191	34%	58%	99%	251	18%	34%	93%	319	10%	21%	91%	387	7%	14%	84%	40250-00		
05	0.28	20	16.8	11.2	8.4	6.7	5.6	4.8	4.2	251	16%	34%	99%	399	3%	11%	83%	-	-	-	-	-	-	-	-	ER80-04	40270-04	
	0.35	30	20.6	13.7	10.3	8.2	6.9	5.9	5.1	230	21%	40%	99%	344	7%	19%	87%	420	5%	11%	80%	543	2%	5%	62%	SR80-04	40288-04	
	0.40	40	23.8	15.8	11.9	9.5	7.9	6.8	5.9	216	24%	44%	99%	310	10%	24%	89%	385	7%	15%	84%	507	3%	7%	68%	MR80-04	40290-04	
	0.45	50	26.6	17.7	13.3	10.6	8.9	7.6	6.6	206	26%	48%	99%	286	12%	28%	91%	360	9%	18%	86%	480	4%	8%	72%	DR80-04	40280-04	
	0.49	60	29.1	19.4	14.5	11.6	9.7	8.3	7.3	198	28%	51%	99%	267	14%	32%	92%	341	10%	20%	88%	460	4%	9%	75%	50 Mesh - Red		
06	0.53	70	31.4	21.0	15.7	12.6	10.5	9.0	7.9	192	29%	53%	99%	253	15%	34%	92%	326	11%	22%	89%	443	5%	10%	77%	40250-00		
	0.35	20	21.0	14.0	10.5	8.4	7.0	6.0	5.3	296	11%	24%	95%	445	3%	8%	78%	-	-	-	-	-	-	-	-	ER80-05	40270-05	
	0.43	30	25.7	17.1	12.9	10.3	8.6	7.3	6.4	267	16%	31%	95%	381	7%	15%	83%	504	3%	7%	68%	574	2%	4%	56%	SR80-05	40288-05	
	0.50	40	29.7	19.8	14.9	11.9	9.9	8.5	7.4	248	20%	36%	95%	342	10%	20%	86%	466	4%	9%	73%	538	2%	5%	62%	MR80-05	40290-05	
	0.56	50	33.2	22.1	16.6	13.3	11.1	9.5	8.3	235	22%	40%	95%	314	12%	24%	87%	438	5%	11%	77%	512	3%	7%	67%	DR80-05	40280-05	
07	0.61	60	36.4	24.2	18.2	14.5	12.1	10.4	9.1	224	25%	43%	95%	293	14%	27%	89%	417	6%	12%	79%	492	3%	8%	70%	50 Mesh - Red		
	0.66	70	39.3	26.2	19.6	15.7	13.1	11.2	8.8	215	26%	46%	95%	277	15%	30%	90%	400	6%	14%	81%	475	4%	8%	72%	40250-00		
	0.42	20	25.2	16.8	12.6	10.1	8.4	7.2	6.3	322	12%	20%	92%	466	3%	7%	74%	-	-	-	-	-	-	-	-	ER80-06	40270-06	
	0.52	30	30.9	20.6	15.4	12.3	10.3	8.8	7.7	296	17%	25%	91%	420	5%	11%	81%	526	2%	6%	64%	596	1%	4%	51%	SR80-06	40288-06	
	0.60	40	35.6	23.8	17.8	14.3	11.9	10.2	8.9	279	20%	29%	91%	390	7%	14%	84%	492	3%	8%	70%	564	2%	5%	57%	MR80-06	40290-06	
08	0.67	50	39.8	26.6	19.9	15.9	13.3	11.4	10.0	267	22%	32%	90%	368	8%	17%	86%	468	4%	9%	73%	540	2%	7%	61%	DR80-06	40280-06	
	0.73	60	43.6	29.1	21.8	17.5	14.5	12.5	10.9	257	24%	35%	90%	351	9%	18%	88%	448	5%	10%	76%	521	3%	8%	64%			

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COMBO-JET® 80° Tip-Cap Performance Specifications

Please Note: 1. Flow rates based on water (80°F), applied at 20" spacing. 2. For applications where a uniform pattern is required, recommended pressure ranges for Tip-Caps are shown. 3. Cap color determined by flow rate, as per ISO standard. 4. In order to make this chart easier to use, not all available tip-cap sizes are shown. For specifications for 005, 0067, 30, 40, 50 & 60 size Tip-Caps, visit our website.										ER80-XX TIP SERIES Recommended Pressure: 20-70 PSI				SR80-XX TIP SERIES Recommended Pressure: 20-100 PSI				MR80-XX TIP SERIES Recommended Pressure: 25-100 PSI				DR80-XX TIP SERIES Recommended Pressure: 30-100 PSI				SPRAY TIP PART #		
Tip Cap No.	Flow Rate USGPM	PSI	Application Rate - US Gallons / Acre @ 20"								VMD (Droplet Size in µ); %<141µ (Drift %); %<200µ (Drift %); %<600µ (Small Droplets)												Tip-Cap & Part No.					
			Sprayer Speed - Miles / Hour								80° ER Series			80° SR Series			80° MR Series			80° DR Series			Tip-Cap	Part #				
			5.0	7.5	10.0	12.5	15.0	17.5	20.0	VMD	<141	<200	<600	VMD	<141	<200	<600	VMD	<141	<200	<600	VMD	<141	<200	<600	Strainer not req'd		
08	0.57	20	33.6	22.4	16.8	13.4	11.2	9.6	8.4	367	12%	23%	86%	548	6%	9%	46%	-	-	-	-	-	-	-	-	-	ER80-08	40270-08
	0.69	30	41.2	27.4	20.6	16.5	13.7	11.8	10.3	317	17%	29%	90%	490	8%	12%	59%	540	6%	11%	63%	619	3%	5%	52%	SR80-08	40288-08	
	0.80	40	47.5	31.7	23.8	19.0	15.8	13.6	11.9	286	21%	34%	93%	449	9%	15%	66%	500	8%	14%	69%	585	4%	7%	58%	MR80-08	40290-08	
	0.89	50	53.1	35.4	26.6	21.3	17.7	15.2	13.3	264	23%	37%	94%	417	10%	16%	71%	470	9%	16%	73%	559	5%	8%	62%	DR80-08	40280-08	
	0.98	60	58.2	38.8	29.1	23.3	19.4	16.6	14.5	247	26%	40%	95%	390	11%	18%	74%	448	10%	18%	76%	539	5%	9%	65%			
	1.06	70	62.9	41.9	31.4	25.1	21.0	18.0	15.7	233	28%	43%	95%	368	12%	19%	76%	430	11%	20%	78%	523	6%	10%	67%			
10	0.71	20	42.0	28.0	21.0	16.8	14.0	12.0	10.5	458	9%	16%	78%	568	5%	7%	42%	-	-	-	-	-	-	-	-	-	ER80-10	40270-10
	0.87	30	51.4	34.3	25.7	20.6	17.1	14.7	12.9	405	12%	21%	82%	512	7%	11%	55%	546	5%	9%	62%	611	4%	6%	52%	SR80-10	40288-10	
	1.00	40	59.4	39.6	29.7	23.8	19.8	17.0	14.9	371	14%	24%	84%	472	8%	13%	63%	513	6%	11%	67%	582	5%	8%	57%	MR80-10	40290-10	
	1.12	50	66.4	44.3	33.2	26.6	22.1	19.0	16.6	346	16%	27%	86%	441	9%	15%	67%	489	7%	13%	70%	561	6%	9%	60%	DR80-10	40280-10	
	1.22	60	72.7	48.5	36.4	29.1	24.2	20.8	18.2	328	18%	29%	87%	415	10%	16%	71%	470	8%	15%	72%	544	6%	10%	63%			
	1.32	70	78.6	52.4	39.3	31.4	26.2	22.5	19.6	313	19%	31%	88%	394	10%	17%	74%	454	8%	16%	74%	530	7%	11%	65%			
125	0.88	20	52.5	35.0	26.3	21.0	17.5	15.0	13.1	458	9%	17%	76%	558	5%	8%	45%	-	-	-	-	-	-	-	-	-	ER80-125	40270-125
	1.08	30	64.3	42.9	32.2	25.7	21.4	18.4	16.1	413	11%	21%	81%	509	7%	11%	55%	585	5%	9%	56%	624	4%	6%	50%	SR80-125	40288-125	
	1.25	40	74.3	49.5	37.1	29.7	24.8	21.2	18.6	383	13%	23%	83%	474	8%	13%	61%	556	6%	11%	60%	595	5%	8%	54%	MR80-125	40290-125	
	1.40	50	83.0	55.3	41.5	33.2	27.7	23.7	20.8	362	14%	25%	85%	447	9%	15%	65%	535	7%	13%	63%	574	5%	9%	57%	DR80-125	40280-125	
	1.53	60	90.9	60.6	45.5	36.4	30.3	26.0	22.7	345	15%	27%	87%	425	10%	16%	68%	519	8%	14%	66%	557	6%	10%	59%			
	1.65	70	98.2	65.5	49.1	39.3	32.7	28.1	24.6	331	16%	28%	88%	407	11%	17%	70%	505	8%	15%	67%	543	6%	11%	61%			
15	1.06	20	63.0	42.0	31.5	25.2	21.0	18.0	15.8	464	7%	14%	76%	602	5%	7%	38%	-	-	-	-	-	-	-	-	-	ER80-15	40270-15
	1.30	30	77.2	51.4	38.6	30.9	25.7	22.0	19.3	412	10%	19%	79%	554	6%	9%	47%	513	7%	13%	66%	637	3%	4%	48%	SR80-15	40288-15	
	1.50	40	89.1	59.4	44.6	35.6	29.7	25.5	22.3	379	12%	22%	81%	519	6%	10%	53%	480	8%	15%	70%	605	3%	6%	53%	MR80-15	40290-15	
	1.68	50	99.6	66.4	49.8	39.8	33.2	28.5	24.9	355	14%	25%	82%	492	7%	11%	58%	456	9%	17%	73%	581	4%	7%	57%	DR80-15	40280-15	
	1.84	60	109.1	72.7	54.6	43.6	36.4	31.2	27.3	337	15%	27%	83%	471	7%	12%	61%	438	10%	18%	75%	562	4%	8%	59%			
	1.98	70	117.9	78.6	58.9	47.1	39.3	33.7	29.5	322	17%	29%	84%	452	8%	13%	63%	422	11%	19%	77%	547	4%	8%	62%			
20	1.41	20	84.0	56.0	42.0	33.6	28.0	24.0	21.0	511	6%	12%	67%	602	5%	6%	38%	-	-	-	-	-	-	-	-	-	ER80-20	40270-20
	1.73	30	102.9	68.6	51.4	41.2	34.3	29.4	25.7	460	9%	16%	73%	551	5%	8%	48%	564	5%	8%	58%	628	3%	5%	50%	SR80-20	40288-20	
	2.00	40	118.8	79.2	59.4	47.5	39.6	33.9	29.7	427	11%	19%	76%	515	6%	10%	54%	523	6%	11%	64%	587	4%	7%	56%	MR80-20	40290-20	
	2.24	50	133	88.5	66.4	53.1	44.3	37.9	33.2	403	12%	21%	79%	487	7%	11%	58%	494	7%	13%	68%	556	4%	8%	61%	DR80-20	40280-20	
	2.45	60	145	97	72.7	58.2	48.5	41.6	36.4	385	13%	22%	81%	464	7%	12%	62%	472	8%	14%	71%	533	5%	9%	64%			
	2.65	70	157	105	78.6	62.9	52.4	44.9	39.3	370	14%	24%	82%	444	7%	13%	64%	453	8%	16%	73%	514	5%	10%	66%			
25	1.77	20	105.0	70.0	52.5	42.0	35.0	30.0	26.3	515	7%	12%	68%	556	4%	7%	46%	-	-	-	-	-	-	-	-	-	ER80-25	40270-25
	2.17	30	129	85.7	64.3	51.4	42.9	36.7	32.2	462	10%	16%	72%	511	5%	9%	54%	604	4%	6%	55%	657	3%	4%	46%	SR80-25	40288-25	
	2.50	40	149	99	74.3	59.4	49.5	42.4	37.1	427	11%	19%	75%	479	6%	10%	59%	566	4%	8%	60%	617	3%	6%	52%	MR80-25	40290-25	
	2.80	50	166	111	83	66.4	55.3	47.4	41.5	402	12%	21%	77%	454	7%	11%	62%	539	5%	9%	63%	587	3%	7%	57%	DR80-25	40280-25	
	3.06	60	182	121	91	72.7	60.6	52.0	45.5	383	13%	23%	79%	434	7%	12%	65%	518	5%	10%	66%	563	4%	8%	60%			
	3.31	70	196	131	98	78.6	65.5	56.1	49.1	367	14%	25%	80%	417	8%	13%	67%	500	6%	11%	68%	544	4%	8%	62%			

*Droplet categories: The above chart is based on the ASABE Standard 572.1. Refer to chemical label to verify which ASABE S572.1 categories should be followed. Droplet Categories as per **ASABE S572.1** Classification (2009-current)

Extremely Fine
<60

Very Fine
60-105µ

Fine
106-235µ

Medium
236-340µ

Coarse
341-403µ

Very Coarse
404-502µ

Extremely Coarse
503-665µ

Ultra Coarse
>665µ

Combo-Jet® Adapters

Square Lug Compatibility

Combo-Jet® tip-caps use a radiallock O-ring seal to secure the cap to the nozzle body. Adapters are available to mount a radiallock cap on a non-radiallock nozzle body.



New for 2017
Lock Nut Adapter
(#40204-00)

ASABE Droplet Categories

Color Classifications

The colors associated with the VMD is based on an ASABE standard for droplet size categorization. See categories and colors above. Refer to wilger.net for older ASABE standard S572.

Recommended Pressure

Pressure Range for Tips

For applications which require a uniform pattern, the recommended pressure range is provided. Specified pressure in chart is boom pressure.

Pre-orifice Length & Color

Differences in tip pre-orifices

Pre-orifice color and length vary for some tips. SR-series pre-orifices will vary in color from the color of the cap. MR & DR pre-orifices will be the same color as the cap. Pre-orifices for high volume tips use a longer pre-orifice.



Have you tried the TIP WIZARD?

An easy to use spray tip calculator that helps find the best spray tip for your application. It is as easy as entering your application, and seeing the results. Tip Wizard is available on the wilger.net website, FREE smartphone app, and Wilger USB.