



Flow Regulators are usually mounted behind cultivator shanks for the subsurface application of liquid fertilizers and soil fumigants. They are also used for above-ground streaming applications.

How to order:

Specify orifice plate number.
Example: CP4916-008

Typical Assembly



Note: Always insert Orifice Plate with side marked with number facing the outlet.
MATERIAL: Stainless Steel

To determine the orifice plates you need, use the following equations:

$$\text{GPM (Per Nozzle)} = \frac{\text{GPA} \times \text{MPH} \times \text{W}}{5,940}$$

$$\text{GPA} = \frac{5,940 \times \text{GPM (Per Nozzle)}}{\text{MPH} \times \text{W}}$$

- W = Nozzle spacing (in inches) for broadcast spraying.
- = Spray width (in inches) for single nozzle, band spraying or boomless spraying.
- = Row spacing (in inches) divided by the number of nozzles per row for directed spraying.

Tip Strainer Size Recommendation

FOR ORIFICE SIZE	USE MESH SIZE
15 and smaller	200
16-39	100
40-70	50
72 and larger	—

Tabulated flow rates are for spraying water into air at atmospheric pressure. If your application creates backpressure, or if spraying into a liquid, measure and calibrate to ensure proper application rates. For spraying solutions other than water, see page 141 for conversion factors.

Orifice Size	GPM							
	5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	
CP4916-008	0.003	0.004	0.006	0.007	0.008	0.009	0.010	
CP4916-10	0.005	0.007	0.009	0.011	0.013	0.015	0.016	
CP4916-12	0.007	0.010	0.013	0.016	0.019	0.021	0.023	
CP4916-14	0.009	0.013	0.018	0.022	0.025	0.028	0.031	
CP4916-15	0.010	0.015	0.021	0.025	0.029	0.032	0.036	
CP4916-16	0.012	0.017	0.023	0.029	0.033	0.037	0.040	
CP4916-18	0.015	0.021	0.030	0.036	0.042	0.047	0.051	
CP4916-20	0.018	0.026	0.037	0.045	0.052	0.058	0.064	
CP4916-22	0.022	0.031	0.043	0.053	0.061	0.068	0.075	
CP4916-24	0.026	0.037	0.052	0.064	0.074	0.083	0.091	
CP4916-25	0.028	0.040	0.056	0.068	0.079	0.088	0.097	
CP4916-26	0.030	0.043	0.061	0.074	0.086	0.096	0.105	
CP4916-27	0.032	0.046	0.064	0.079	0.091	0.102	0.111	
CP4916-28	0.035	0.049	0.069	0.085	0.098	0.110	0.120	
CP4916-29	0.038	0.054	0.076	0.094	0.108	0.121	0.132	
CP4916-30	0.040	0.057	0.081	0.099	0.114	0.127	0.140	
CP4916-31	0.043	0.062	0.087	0.107	0.123	0.138	0.151	
CP4916-32	0.048	0.068	0.095	0.117	0.135	0.151	0.165	
CP4916-34	0.052	0.074	0.104	0.127	0.147	0.164	0.180	
CP4916-35	0.056	0.079	0.111	0.136	0.157	0.176	0.192	
CP4916-37	0.061	0.086	0.122	0.149	0.172	0.192	0.211	
CP4916-39	0.068	0.096	0.135	0.165	0.191	0.214	0.234	
CP4916-40	0.072	0.102	0.144	0.177	0.204	0.228	0.250	
CP4916-41	0.075	0.106	0.149	0.183	0.211	0.236	0.258	
CP4916-43	0.082	0.116	0.163	0.200	0.231	0.258	0.283	
CP4916-45	0.088	0.125	0.177	0.217	0.250	0.280	0.306	
CP4916-46	0.095	0.135	0.191	0.234	0.270	0.302	0.331	

Orifice Size	GPM							
	5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	
CP4916-47	0.097	0.138	0.194	0.238	0.275	0.307	0.337	
CP4916-48	0.101	0.143	0.202	0.248	0.286	0.320	0.350	
CP4916-49	0.104	0.148	0.209	0.255	0.295	0.330	0.361	
CP4916-51	0.116	0.165	0.233	0.285	0.329	0.368	0.403	
CP4916-52	0.118	0.168	0.237	0.290	0.335	0.375	0.410	
CP4916-54	0.127	0.180	0.255	0.312	0.360	0.402	0.441	
CP4916-55	0.133	0.189	0.267	0.326	0.377	0.421	0.462	
CP4916-57	0.141	0.200	0.283	0.346	0.400	0.447	0.490	
CP4916-59	0.153	0.217	0.306	0.375	0.433	0.484	0.530	
CP4916-61	0.165	0.233	0.330	0.404	0.466	0.521	0.571	
CP4916-63	0.174	0.246	0.347	0.425	0.491	0.549	0.601	
CP4916-65	0.185	0.261	0.369	0.452	0.522	0.584	0.639	
CP4916-67	0.196	0.278	0.392	0.481	0.555	0.621	0.680	
CP4916-68	0.203	0.287	0.405	0.496	0.573	0.641	0.702	
CP4916-70	0.216	0.306	0.433	0.530	0.612	0.684	0.750	
CP4916-72	0.226	0.320	0.453	0.554	0.640	0.716	0.784	
CP4916-73	0.233	0.330	0.467	0.572	0.660	0.738	0.808	
CP4916-75	0.245	0.347	0.491	0.601	0.694	0.776	0.850	
CP4916-78	0.272	0.385	0.544	0.667	0.770	0.861	0.943	
CP4916-80	0.280	0.397	0.561	0.687	0.793	0.887	0.971	
CP4916-81	0.290	0.411	0.581	0.711	0.821	0.918	1.01	
CP4916-83	0.317	0.449	0.634	0.777	0.897	1.00	1.10	
CP4916-86	0.332	0.470	0.664	0.813	0.939	1.05	1.15	
CP4916-89	0.346	0.490	0.693	0.849	0.980	1.10	1.20	
CP4916-91	0.369	0.523	0.739	0.905	1.05	1.17	1.28	
CP4916-93	0.387	0.547	0.774	0.947	1.09	1.22	1.34	
CP4916-95	0.404	0.572	0.808	0.990	1.14	1.28	1.40	

Orifice Size	GPM							
	5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	
CP4916-98	0.442	0.625	0.884	1.08	1.25	1.40	1.53	
CP4916-103	0.461	0.653	0.923	1.13	1.31	1.46	1.60	
CP4916-107	0.518	0.733	1.04	1.27	1.47	1.64	1.79	
CP4916-110	0.548	0.775	1.10	1.34	1.55	1.73	1.90	
CP4916-115	0.605	0.855	1.21	1.48	1.71	1.91	2.09	
CP4916-120	0.629	0.890	1.26	1.54	1.78	1.99	2.18	
CP4916-125	0.693	0.980	1.39	1.70	1.96	2.19	2.40	
CP4916-128	0.721	1.02	1.44	1.77	2.04	2.28	2.50	
CP4916-132	0.774	1.10	1.55	1.90	2.19	2.45	2.68	
CP4916-136	0.840	1.19	1.68	2.06	2.38	2.66	2.91	
CP4916-140	0.894	1.27	1.79	2.19	2.53	2.83	3.10	
CP4916-144	0.926	1.31	1.85	2.27	2.62	2.93	3.21	
CP4916-147	0.953	1.35	1.91	2.33	2.70	3.01	3.30	
CP4916-151	1.04	1.47	2.08	2.55	2.94	3.29	3.60	
CP4916-156	1.10	1.55	2.20	2.69	3.11	3.47	3.80	
CP4916-161	1.15	1.63	2.31	2.83	3.27	3.65	4.00	
CP4916-166	1.21	1.72	2.43	2.97	3.43	3.84	4.20	
CP4916-170	1.30	1.84	2.61	3.19	3.69	4.12	4.51	
CP4916-172	1.36	1.92	2.71	3.32	3.84	4.29	4.70	
CP4916-177	1.41	2.00	2.83	3.46	4.00	4.47	4.90	
CP4916-182	1.47	2.08	2.95	3.61	4.17	4.66	5.10	
CP4916-187	1.56	2.21	3.12	3.82	4.41	4.93	5.40	
CP4916-196	1.73	2.45	3.46	4.24	4.90	5.47	6.00	
CP4916-205	1.88	2.65	3.75	4.59	5.31	5.93	6.50	
CP4916-218	2.11	2.98	4.21	5.16	5.96	6.66	7.30	
CP4916-234	2.45	3.47	4.91	6.01	6.94	7.76	8.50	
CP4916-250	2.83	4.00	5.66	6.93	8.00	8.94	9.80	

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 136-157 for useful formulas and other information.