REGULATOR WITH ORIFICE PLATE NO.	PRESSURE IN P.S.I.	CAPACITY IN G.P.M.	GALLONS PER ACRE — BASED ON 20" SPACING AND ON SOLUTION WEIGHING 10 Lbs. Per Gal. (FOR CONVERSION FACTORS SEE SH. 13)								
			2 M.P.H.	2½ M.P.H.	3 M.P.H.	3½ M.P.H.	4 M.P.H.	5 M.P.H.	6 M.P.H.	8 M.P.H.	10 M.P.H.
4916-08 (ORIFICE DIA. - .008")	2	.0017	.26	.21							
	4	.0024	.36	.29	.24	.21					
	6	.0030	.44	.36	.30	.25	.22				
	8	.0035	.51	.41	.34	.29	.26	.21			
	10	.0039	.57	.46	.38	.33	.29	.23			
	12	.0042	.63	.50	.42	.36	.31	.25	.21		
	14	.0046	.68	.54	.45	.39	.34	.27	.23		
	16	.0049	.73	.58	.48	.41	.36	.29	.24		
	18	.0052	.77	.62	.51	.44	.38	.31	.26		
	20	.0055	.81	.65	.54	.46	.41	.32	.27	.20	
	25	.0061	.91	.73	.60	.52	.45	.36	.30	.23	
	30	.0067	.99	.79	.66	.57	.50	.40	.33	.25	
	40	.0077	1.1	.92	.76	.66	.57	.46	.38	.29	.23
	50	.0086	1.3	1.0	.86	.73	.64	.51	.43	.32	.26
	60	.0095	1.4	1.1	.94	.81	.70	.56	.47	.35	.28
4916-10 (ORIFICE DIA. - .010")	2	.0026	.39	.31	.26	.22					
	4	.0037	.56	.45	.37	.37	.28	.22			
	6	.0046	.68	.54	.45	.39	.34	.27	.23		
	8	.0053	.79	.63	.52	.45	.39	.31	.26		
	10	.0059	.88	.71	.59	.50	.44	.35	.29	.22	
	12	.0065	.96	.77	.64	.55	.48	.39	.32	.24	
	14	.0070	1.0	.83	.69	.60	.52	.42	.35	.26	.21
	16	.0075	1.1	.89	.74	.64	.56	.45	.37	.28	.22
	18	.0079	1.18	.94	.79	.67	.59	.47	.39	.29	.24
	20	.0084	1.24	1.0	.83	.71	.62	.50	.41	.31	.25
	25	.0094	1.4	1.1	.93	.80	.70	.56	.46	.35	.28
	30	.010	1.5	1.2	1.0	.87	.76	.61	.51	.38	.30
	40	.012	1.8	1.4	1.2	1.0	.88	.70	.59	.44	.35
	50	.013	2.0	1.6	1.3	1.1	.98	.79	.66	.49	.39
	60	.015	2.2	1.7	1.4	1.2	1.1	.86	.72	.54	.43

REGULATOR WITH ORIFICE PLATE NO.	PRESSURE IN P.S.I.	CAPACITY IN G.P.M.	GALLONS PER ACRE — BASED ON 20" SPACING AND ON SOLUTION WEIGHING 10 Lbs. Per Gal. (FOR CONVERSION FACTORS SEE SH. 13)								
			2 M.P.H.	2½ M.P.H.	3 M.P.H.	3½ M.P.H.	4 M.P.H.	5 M.P.H.	6 M.P.H.	8 M.P.H.	10 M.P.H.
4916-12 (ORIFICE DIA. - .012")	2	.0038	.57	.45	.38	.32	.28	.23			
	4	.0054	.81	.64	.54	.46	.40	.32	.27	.20	
	6	.0066	.99	.79	.66	.56	.49	.39	.33	.25	
	8	.0076	1.1	.91	.76	.65	.57	.46	.38	.28	.23
	10	.0085	1.3	1.0	.85	.73	.64	.51	.42	.32	.25
	12	.0094	1.4	1.1	.93	.80	.70	.56	.46	.35	.28
	14	.010	1.5	1.2	1.0	.86	.75	.60	.50	.38	.30
	16	.011	1.6	1.3	1.07	.92	.80	.64	.54	.40	.32
	18	.0114	1.7	1.4	1.14	.98	.85	.68	.57	.43	.34
	20	.012	1.8	1.4	1.2	1.0	.90	.72	.60	.45	.36
	25	.014	2.0	1.6	1.8	1.2	1.0	.80	.67	.50	.40
	30	.015	2.2	1.8	1.5	1.3	1.1	.88	.73	.55	.44
	40	.017	2.5	2.0	1.7	1.5	1.3	1.0	.85	.64	.51
	50	.019	2.8	2.3	1.9	1.6	1.4	1.1	.95	.71	.57
	60	.021	3.1	2.5	2.1	1.8	1.6	1.2	1.0	.78	.62
4916-14 (ORIFICE DIA. - .014")	2	.0052	.77	.61	.51	.44	.38	.31	.26		
	4	.0073	1.1	.87	.72	.62	.54	.43	.36	.27	.22
	6	.0089	1.3	1.1	.89	.76	.66	.53	.44	.33	.26
	8	.010	1.5	1.2	1.0	.88	.77	.61	.51	.38	.31
	10	.012	1.7	1.4	1.1	.98	.86	.69	.57	.43	.34
	12	.0126	1.9	1.6	1.3	1.1	.94	.75	.63	.47	.38
	14	.0136	2.0	1.6	1.3	1.15	1.0	.81	.67	.51	.40
	16	.0146	2.2	1.7	1.4	1.2	1.1	.87	.72	.54	.43
	18	.0154	2.3	1.8	1.5	1.3	1.14	.92	.76	.57	.46
	20	.0163	2.4	1.9	1.6	1.4	1.21	.97	.81	.61	.49
	25	.018	2.7	2.2	1.8	1.5	1.4	1.1	.90	.68	.54
	30	.020	3.0	2.4	2.0	1.7	1.5	1.2	.99	.74	.59
	40	.023	3.4	2.7	2.3	2.0	1.7	1.4	1.1	.86	.69
	50	.026	3.8	3.1	2.6	2.2	1.9	1.5	1.3	.96	.77
	60	.028	4.2	3.4	2.8	2.4	2.1	1.7	1.4	1.1	.84

REGULATOR WITH ORIFICE PLATE NO.	PRESSURE IN P.S.I.	CAPACITY IN G.P.M.	GALLONS PER ACRE — BASED ON 20" SPACING AND ON SOLUTION WEIGHING 10 Lbs. Per Gal. (FOR CONVERSION FACTORS SEE SH. 13)								
			2 M.P.H.	2½ M.P.H.	3 M.P.H.	3½ M.P.H.	4 M.P.H.	5 M.P.H.	6 M.P.H.	8 M.P.H.	10 M.P.H.
4916-15 (ORIFICE DIA. - .015")	2	.0058	.87	.70	.58	.50	.43	.35	.29	.22	
	4	.0082	1.2	.98	.82	.70	.61	.49	.41	.31	.25
	6	.010	1.5	1.2	1.0	.86	.75	.60	.50	.38	.30
	8	.012	1.7	1.4	1.2	.99	.87	.69	.58	.43	.35
	10	.013	1.9	1.6	1.3	1.1	.97	.78	.65	.48	.39
	12	.014	2.1	1.7	1.4	1.2	1.1	.85	.71	.53	.42
	14	.015	2.3	1.8	1.5	1.3	1.1	.92	.76	.57	.46
	16	.017	2.5	2.0	1.6	1.4	1.2	.98	.82	.61	.49
	18	.018	2.6	2.1	1.7	1.5	1.3	1.0	.87	.65	.52
	20	.019	2.7	2.2	1.8	1.6	1.4	1.1	.92	.69	.55
	25	.021	3.1	2.5	2.0	1.8	1.5	1.2	1.0	.77	.61
	30	.023	3.4	2.7	2.2	1.9	1.7	1.3	1.1	.84	.67
	40	.026	3.9	3.1	2.6	2.2	1.9	1.6	1.3	.97	.78
	50	.029	4.3	3.5	2.9	2.5	2.2	1.7	1.4	1.1	.87
	60	.032	4.75	3.8	3.2	2.7	2.4	1.9	1.6	1.2	.95
4916-16 (ORIFICE DIA. - .016")	2	.0066	.99	.79	.66	.57	.50	.40	.33	.25	.20
	4	.0094	1.4	1.1	.94	.80	.70	.56	.47	.35	.28
	6	.012	1.7	1.4	1.1	.98	.86	.69	.57	.43	.34
	8	.013	2.0	1.6	1.3	1.1	.99	.79	.66	.49	.39
	10	.015	2.2	1.8	1.5	1.3	1.1	.88	.74	.55	.44
	12	.016	2.4	1.9	1.6	1.4	1.2	.97	.81	.61	.49
	14	.018	2.6	2.1	1.8	1.5	1.3	1.05	.88	.66	.53
	16	.019	2.8	2.2	1.9	1.6	1.4	1.12	.94	.70	.56
	18	.020	3.0	2.4	2.0	1.7	1.5	1.2	.99	.74	.60
	20	.021	3.1	2.5	2.1	1.8	1.6	1.3	1.04	.78	.63
	25	.024	3.5	2.8	2.3	2.0	1.8	1.4	1.2	.88	.70
	30	.026	3.8	3.1	2.6	2.2	1.9	1.5	1.3	.96	.77
	40	.030	4.4	3.6	3.0	2.5	2.2	1.8	1.5	1.1	.89
	50	.033	5.0	4.0	3.3	2.8	2.5	2.0	1.7	1.2	.99
	60	.037	5.4	4.4	3.6	3.1	2.7	2.2	1.8	1.4	1.1

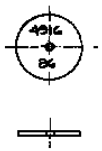
SEE SHEET 7001-13 FOR CONVERSION FACTORS ON OTHER SOLUTIONS.

EXAMPLE: TO DETERMINE FLOW REGULATOR ORIFICE PLATE SIZE REQUIRED TO APPLY 11 G.P.A. OF A 15 LBS./GAL. SOLUTION ÷ 12" REGULATOR SPACING — LIQUID PRESSURE 14 P.S.I. — AT 3 M.P.H. RIG SPEED.

FROM SHEET 7001-13 → CONVERSION FACTOR (FOR 15 LBS./GAL. — 12" SPACING) = 1.37

TO OBTAIN EQUIVALENT TABULATED G.P.A.: $\frac{11 \text{ G.P.A. (15 LBS./GAL. SOL.)}}{1.37 \text{ FACTOR}}$ = 8.0 G.P.A. (EQUIV. TABULATED COVERAGE)

THEREFORE: FROM SHEET 7001-6 UNDER 3 M.P.H. AND 14 P.S.I. — WE FIND THAT THE 4916-34 ORIFICE PLATE DELIVERS 7.9 G.P.A. (10 LBS./GAL. SOLUTION — 20" SPACING) AS WELL AS 11 G.P.A. OF THE 15 LBS./GAL. SOLUTION AT 12" SPACING.



ORIFICE PLATE FOR TEEJET FLOW REGULATOR

DESCRIPTION:
MASTER TABULATION FOR GALLONS PER ACRE COVERAGES USING TEEJET FLOW REGULATORS

Spraying Systems Co.®
Spray Nozzles and Accessories
P.O. Box 7900 - Wheaton, Il. 60189-7900

Rev. No.
Ref.
Data Sheet No. 7001-4
SHEET OF

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