

REGULATOR WITH ORIFICE PLATE NO.	PRESSURE IN rPa	CAPACITY IN LITERS PER MIN.	LITERS PER HECTARE						
			BASED ON 50cm SPACING, AND ON 1.2 kg/Lit SOLUTION (FOR CONVERSION FACTOR SEE AT RIGHT)						
			5	6	8	10	12	14	16
		km/h	km/h	km/h	km/h	km/h	km/h	km/h	
4916-20E ORIFICE DIA. 5.207mm	35	4	1190	990	740	590	490	420	370
	35	8	1680	1400	1050	840	700	600	520
	35	15	2050	1710	1280	1030	860	730	640
	35	20	2370	1980	1480	1190	990	850	740
	35	25	2650	2210	1660	1330	1100	950	830
	35	30	2920	2410	1830	1460	1200	1030	900
	35	35	3180	2600	1980	1580	1310	1120	980
	35	40	3430	2780	2130	1700	1410	1210	1060
	35	45	3670	2950	2260	1810	1500	1280	1120
	35	50	3900	3110	2380	1910	1580	1340	1170
4916-21B ORIFICE DIA. 5.527mm	20	5.55	1330	1110	830	670	550	480	420
	40	1.85	1880	1570	1180	940	780	670	590
	60	1.41	2310	1920	1440	1150	960	820	720
	80	1.10	2660	2220	1660	1330	1110	950	830
	100	1.21	2980	2480	1860	1490	1240	1060	930
	150	15.19	3650	3040	2280	1820	1520	1300	1140
	200	17.55	4210	3510	2630	2110	1750	1500	1320
	250	19.62	4710	3920	2940	2350	1960	1680	1470
	300	21.45	5160	4300	3220	2580	2150	1840	1610
	350	23.21	5570	4640	3480	2790	2320	1990	1740
4916-23A ORIFICE DIA. 5.544mm	20	6.46	1550	1290	970	780	650	550	480
	40	2.14	2190	1830	1370	1100	910	780	690
	60	1.79	2690	2240	1680	1340	1120	960	840
	80	1.42	3100	2580	1940	1550	1290	1110	970
	100	1.45	3470	2890	2170	1730	1440	1240	1080
	150	17.65	4250	3540	2630	2120	1770	1520	1330
	200	20.43	4900	4090	3060	2450	2040	1750	1530
	250	22.84	5480	4570	3430	2740	2280	1960	1710
	300	25.02	6000	5000	3750	3000	2500	2140	1880
	350	27.03	6490	5400	4050	3240	2700	2320	2030
4916-250 ORIFICE DIA. 5.590mm	20	7.45	1790	1490	1120	890	740	640	560
	40	10.53	2530	2110	1580	1260	1050	900	790
	60	12.90	3100	2580	1930	1550	1290	1110	970
	80	14.89	3570	2980	2230	1790	1490	1280	1120
	100	16.65	4000	3330	2500	2000	1670	1430	1250
	150	20.34	4890	4080	3060	2450	2040	1750	1530
	200	23.55	5650	4710	3530	2830	2350	2020	1770
	250	26.33	6320	5270	3950	3160	2630	2260	1970
	300	28.84	6920	5770	4330	3460	2880	2470	2160
	350	31.15	7480	6230	4670	3740	3120	2670	2340
400	33.30	7990	6660	5000	4000	3330	2850	2500	

SINCE TABULATIONS ON DATA SHEETS NO. 17943- ARE ALL BASED ON A 1.2 kg/Lit SOLUTION APPLIED AT A 50cm NOZZLE (OR REGULATOR) SPACING - IT IS NECESSARY TO MULTIPLY THESE TABULATED L/Ha VALUES BY A CONVERSION FACTOR ANYTIME A DIFFERENT WEIGHT SOLUTION OR NOZZLE SPACING IS USED.

**EXAMPLE:**

TO DETERMINE FLOW REGULATOR ORIFICE PLATE SIZE REQUIRED TO APPLY 17.4 L/Ha OF A 1.8 kg/Lit SOLUTION - 30cm REGULATOR SPACING - LIQUID PRESSURE 100 rPa - AT 5 km/h RIG SPEED.

FROM TABLE AT RIGHT -> CONVERSION FACTOR (FOR 1.8 kg/Lit - 30cm SPACING) = 1.37 TO OBTAIN EQUIVALENT TABULATED L/Ha:  $17.4 \text{ L/Ha} (1.8 \text{ kg/Lit SOL.}) \times 1.37 \text{ FACTOR}$  (EQUIVALENT TABULATED COVERAGE).

THEREFORE: FROM SHEET 17943-1 UNDER 5 km/h AND 100 rPa - WE FIND THAT THE 4916-14 ORIFICE PLATE DELIVERS 12.7 L/Ha (1.2 kg/Lit SOLUTION - 50cm SPACING) AS WELL AS 17.4 L/Ha OF THE 1.8 kg/Lit SOLUTION AT 30cm SPACING.

- rPa = KILOPASCAL
- km/h = KILOMETERS PER HOUR
- L/min = LITERS PER MINUTE
- L/Ha = LITERS PER HECTARE
- kg/Lit = KILOGRAM PER LITER

THE CONVERSION FACTORS LISTED ARE BASED ON ROOM TEMPERATURES.

CAUTION: THESE CONVERSION FACTORS ARE TO BE USED ONLY ON TABULATIONS WHICH ARE BASED ON 1.2 kg/Lit SOLUTIONS AND ON A 50cm NOZZLE SPACING. DO NOT USE ON TABULATIONS WHICH ARE BASED ON SPRAYING WATER.

DENSITY kg/Lit	CONVERSION FACTORS TO OBTAIN CAPACITIES FOR OTHER SOLUTIONS AND NOZZLE SPACINGS (MULTIPLY BY FACTOR)									
	SPACING									
	25 cm	30 cm	45 cm	50 cm	55 cm	90 cm	95 cm	100 cm	110 cm	
0.62	2.78	2.32	1.54	1.39	1.27	0.77	0.73	0.70	0.70	
0.66	2.70	2.25	1.50	1.35	1.23	0.75	0.71	0.68	0.61	
0.72	2.60	2.15	1.43	1.29	1.18	0.72	0.68	0.65	0.59	
0.78	2.50	2.07	1.38	1.24	1.13	0.68	0.65	0.62	0.56	
0.80	2.44	2.04	1.36	1.22	1.12	0.66	0.64	0.61	0.55	
0.84	2.40	2.00	1.33	1.20	1.09	0.67	0.63	0.60	0.54	
0.90	2.32	1.94	1.29	1.16	1.06	0.65	0.61	0.58	0.52	
0.92	2.28	1.90	1.27	1.14	1.04	0.63	0.60	0.57	0.52	
0.96	2.24	1.87	1.25	1.12	1.02	0.62	0.59	0.56	0.51	
0.97	2.22	1.85	1.23	1.11	1.01	0.62	0.58	0.56	0.50	
1.00	2.20	1.84	1.22	1.10	1.00	0.61	0.58	0.55	0.50	
1.02	2.16	1.80	1.20	1.08	0.98	0.60	0.57	0.54	0.49	
1.04	2.14	1.79	1.19	1.07	0.97	0.59	0.56	0.54	0.49	
1.08	2.10	1.75	1.17	1.05	0.96	0.58	0.55	0.53	0.48	
1.11	2.08	1.73	1.16	1.04	0.95	0.58	0.55	0.52	0.47	
1.14	2.04	1.70	1.13	1.02	0.93	0.57	0.54	0.51	0.46	
1.18	2.02	1.69	1.12	1.01	0.92	0.56	0.53	0.51	0.46	
1.20	2.00	1.67	1.11	1.00	0.91	0.56	0.53	0.50	0.45	
1.23	1.98	1.65	1.10	0.99	0.90	0.55	0.52	0.50	0.45	
1.26	1.96	1.64	1.09	0.98	0.89	0.54	0.52	0.49	0.45	
1.28	1.94	1.62	1.08	0.97	0.88	0.54	0.51	0.49	0.44	
1.29	1.92	1.60	1.07	0.96	0.87	0.53	0.51	0.48	0.44	
1.32	1.90	1.58	1.06	0.95	0.87	0.53	0.50	0.48	0.43	
1.35	1.88	1.57	1.04	0.94	0.86	0.52	0.50	0.47	0.43	
1.37	1.88	1.57	1.04	0.94	0.86	0.52	0.50	0.47	0.43	
1.38	1.86	1.55	1.03	0.93	0.85	0.52	0.49	0.47	0.43	
1.41	1.84	1.53	1.02	0.92	0.84	0.51	0.48	0.46	0.42	
1.44	1.82	1.52	1.01	0.91	0.83	0.51	0.48	0.46	0.41	
1.55	1.76	1.47	0.98	0.88	0.80	0.49	0.47	0.44	0.40	
1.68	1.68	1.40	0.93	0.84	0.76	0.47	0.44	0.42	0.38	
1.80	1.64	1.37	0.91	0.82	0.75	0.46	0.43	0.41	0.37	
1.90	1.58	1.32	0.88	0.79	0.72	0.44	0.42	0.40	0.36	
2.00	1.54	1.29	0.86	0.77	0.70	0.43	0.41	0.39	0.35	

**DESCRIPTION:**

MASTER TABULATION FOR LITER PER HECTARE COVERAGES USING TEEJET FLOW REGULATORS AND CONVERSION FACTOR TABLES (METRIC)



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Rev. No.

Data Sheet No.

17943-8

Ref.

SHEET OF