



INJ-213 (Blue Dot) Injector Information

Part Number:	INJ-213	
Length:	3/4 Length	
Connector:	Bosch Jetronic/Minitimer	
O-Ring Diameter:	14mm Top and Bottom	
Coil Resistance:	12 Ω @ 22°C	
Min Opening Voltage:	10V @ 22°C	
Test Fluid:	N-Heptane	
Fluid Density:	0.684 g/cm ³	
Fluid Viscosity:	0.61 mm ² /s	
Test Temperature:	21±2°C	
Test Pressure:	300, 400 and 500 kPa	
Test Voltage:	6-14 V	
Q _{stat} , Static Flow Rate	990 cc/min ±1.5%	
Q _{dyn} , Dynamic Flow Rate	71.4mg/pulse @ 7.5ms	
Fuel Compatibility	Gasoline, Ethanol and Methanol	
Spray Pattern	Wide Cone	
Spray Direction	Straight	

Slope [g/s] vs. Pressure [kPa]

Fuel Pressure

[psi]	40.0	43.5	50.0	55.0	58.0	60.0	65.0	72.5	80.0	90.0
[kPa]	276	300	345	379	400	414	448	500	552	621
[g/s]	10.55	11.00	11.92	12.55	12.91	13.13	13.63	14.29	15.01	15.92

Injector Offset [ms] vs. Pressure [kPa] vs. Voltage [V]

Fuel Pressure

[psi]	40.0	43.5	50.0	55.0	58.0	60.0	65.0	72.5	80.0	90.0	
[kPa]	276	300	345	379	400	414	448	500	552	621	
Voltage [V]	15	0.560	0.601	0.680	0.739	0.776	0.778	0.784	0.792	0.800	0.811
	14	0.711	0.744	0.806	0.854	0.883	0.895	0.924	0.969	1.015	1.074
	13	0.891	0.919	0.971	1.010	1.034	1.059	1.121	1.215	1.310	1.435
	12	1.071	1.111	1.186	1.242	1.277	1.317	1.414	1.563	1.711	1.908
	11	1.308	1.369	1.484	1.571	1.625	1.680	1.814	2.019	2.223	2.495
	10	1.628	1.725	1.905	2.042	2.126	2.175	2.294	2.476	2.658	2.899
	9	2.137	2.295	2.592	2.816	2.954	3.140	3.591	4.280	4.970	5.884
	8	2.776	3.200	3.994	4.594	4.964	4.978	5.012	5.064	5.116	5.185
	7	5.663	5.684	5.722	5.751	5.769	6.012	6.600	7.500	7.500	7.500
	6	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500

Static Flow Rate vs. Pressure [kPa]

Fuel Pressure

(psi)	40.0	43.5	50.0	55.0	58.0	60.0	65.0	72.5	80.0	90.0
(kPa)	276	300	345	379	400	414	448	500	552	621
[g/min]	10.85	11.31	12.18	12.80	13.17	13.41	13.98	14.80	15.55	16.49
[cc/min]	953	994	1070	1125	1157	1178	1228	1300	1366	1448

For Ford/GM Plug and Play data, please visit

<https://www.raceworks.com.au/fuel/injectors/data/INJ-213>



INJ-213 (Red Dot) Injector Information

Part Number:	INJ-213	
Length:	3/4 Length	
Connector:	Bosch Jetronic/Minitimer	
O-Ring Diameter:	14mm Top and Bottom	
Coil Resistance:	12 Ω @ 22°C	
Min Opening Voltage:	10V @ 22°C	
Test Fluid:	N-Heptane	
Fluid Density:	0.684 g/cm ³	
Fluid Viscosity:	0.61 mm ² /s	
Test Temperature:	21±2°C	
Test Pressure:	300, 400 and 500 kPa	
Test Voltage:	6-14 V	
Qstat, Static Flow Rate	1020 cc/min ±1.5%	
Qdyn, Dynamic Flow Rate	72.8mg/pulse @ 7.5ms	
Fuel Compatibility	Gasoline, Ethanol and Methanol	
Spray Pattern	Wide Cone	
Spray Direction	Straight	

Slope [g/s] vs. Pressure [kPa]

Fuel Pressure

[psi]	40.0	43.5	50.0	55.0	58.0	60.0	65.0	72.5	80.0	90.0
[kPa]	276	300	345	379	400	414	448	500	552	621
[g/s]	10.74	11.20	12.18	12.82	13.18	13.40	13.89	14.47	15.20	16.12

Injector Offset [ms] vs. Pressure [kPa] vs. Voltage [V]

Fuel Pressure

[psi]	40.0	43.5	50.0	55.0	58.0	60.0	65.0	72.5	80.0	90.0
[kPa]	276	300	345	379	400	414	448	500	552	621
15	0.723	0.739	0.769	0.792	0.806	0.826	0.874	0.948	1.021	1.119
14	0.873	0.894	0.933	0.963	0.981	0.993	1.022	1.065	1.109	1.167
13	1.050	1.077	1.127	1.164	1.187	1.215	1.283	1.387	1.491	1.628
12	1.289	1.330	1.407	1.465	1.501	1.538	1.628	1.766	1.903	2.086
11	1.566	1.627	1.741	1.827	1.880	1.956	2.140	2.421	2.702	3.074
10	1.915	2.026	2.234	2.391	2.488	2.649	3.038	3.634	4.230	5.021
9	2.413	2.650	3.094	3.429	3.637	3.803	4.208	4.827	5.446	6.267
8	3.516	3.752	4.195	4.530	4.736	4.906	5.317	5.947	6.576	7.412
7	5.391	5.558	5.869	6.105	6.250	6.425	6.850	7.500	7.500	7.500
6	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500

Static Flow Rate vs. Pressure [kPa]

Fuel Pressure

(psi)	40.0	43.5	50.0	55.0	58.0	60.0	65.0	72.5	80.0	90.0
(kPa)	276	300	345	379	400	414	448	500	552	621
[g/min]	11.15	11.62	12.53	13.18	13.57	13.81	14.39	15.22	15.99	16.96
[cc/min]	979	1021	1101	1158	1192	1214	1265	1337	1405	1490

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INJ-213 (Yellow Dot) Injector Information

Part Number:	INJ-213	
Length:	3/4 Length	
Connector:	Bosch Jetronic/Minitimer	
O-Ring Diameter:	14mm Top and Bottom	
Coil Resistance:	12 Ω @ 22°C	
Min Opening Voltage:	10V @ 22°C	
Test Fluid:	N-Heptane	
Fluid Density:	0.684 g/cm ³	
Fluid Viscosity:	0.61 mm ² /s	
Test Temperature:	21±2°C	
Test Pressure:	300, 400 and 500 kPa	
Test Voltage:	6-14 V	
Q _{stat} , Static Flow Rate	1005 cc/min ±1.5%	
Q _{dyn} , Dynamic Flow Rate	72.1 mg/pulse @ 7.5ms	
Fuel Compatibility	Gasoline, Ethanol and Methanol	
Spray Pattern	Wide Cone	
Spray Direction	Straight	

Slope [g/s] vs. Pressure [kPa]

Fuel Pressure

[psi]	40.0	43.5	50.0	55.0	58.0	60.0	65.0	72.5	80.0	90.0
[kPa]	276	300	345	379	400	414	448	500	552	621
[g/s]	10.70	11.16	12.07	12.69	13.04	13.26	13.76	14.41	15.14	16.05

Injector Offset [ms] vs. Pressure [kPa] vs. Voltage [V]

Fuel Pressure

[psi]	40.0	43.5	50.0	55.0	58.0	60.0	65.0	72.5	80.0	90.0
[kPa]	276	300	345	379	400	414	448	500	552	621
15	0.588	0.625	0.695	0.748	0.780	0.785	0.796	0.814	0.832	0.855
14	0.750	0.780	0.838	0.881	0.908	0.917	0.939	0.973	1.007	1.053
13	0.944	0.955	0.975	0.991	1.000	1.029	1.099	1.206	1.312	1.454
12	1.146	1.159	1.184	1.202	1.214	1.259	1.369	1.536	1.704	1.927
11	1.416	1.421	1.431	1.439	1.444	1.477	1.559	1.683	1.807	1.972
10	1.762	1.769	1.782	1.792	1.798	1.843	1.951	2.116	2.282	2.501
9	2.304	2.317	2.341	2.359	2.371	2.409	2.501	2.643	2.785	2.973
8	2.965	3.201	3.643	3.978	4.184	4.208	4.264	4.351	4.438	4.553
7	5.980	5.909	5.776	5.675	5.613	5.877	6.519	7.500	7.500	7.500
6	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500

Static Flow Rate vs. Pressure [kPa]

Fuel Pressure

(psi)	40.0	43.5	50.0	55.0	58.0	60.0	65.0	72.5	80.0	90.0
(kPa)	276	300	345	379	400	414	448	500	552	621
[g/min]	11.04	11.51	12.40	13.04	13.41	13.66	14.23	15.04	15.81	16.77
[cc/min]	970	1011	1089	1145	1178	1200	1250	1322	1389	1473

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