

EXtronic® Series

Explosion Proof Solenoid Metering Pump



The **ProMinent® EXtronic®** is the explosion proof solenoid pump series representing a proven technology for metering liquid media in hazardous areas classified in accordance with Class 1, Division 1. The **EXtronic®** covers the capacity range from **0.05 to 15.9 gph (0.23 to 60 l/h)** with pressures up to **363 psi (25 bar)**.

Features & Benefits

- Capacities to 15.9 gph (60 lph)
- Maximum pressure to 363 psi (25 bar)
- Factory Mutual, CE and CSA Approved
- Class 1, Division 1, Groups B, C, & D
- Operation modes in manual, contact or analog
- Solenoid driven diaphragm pump
- Auto-degassing and high viscosity liquid ends
- Pre-packaged systems available
- Safe metering in hazardous/classified areas
- Intrinsically safe contact or analog control
- Turndown ratio 1200:1
- Operationally safe for flammable liquids
- No loss of prime with off-gassing liquids
- Plug 'n play systems solutions

Applications

- Chemical process
- Mining
- Petrochemical
- Heavy industrial
- Pharmaceutical
- Fine dust environments
- Generally hazardous areas

EXtronic® Series

Capacity Data: EXtronic®																
Pump Version	Capacity at Max. Backpressure					Capacity at 1/2 Max. Backpressure					Pre-Primed Suction Lift		Max. Stroking Rate	Tubing Connectors ² O.D. x I.D.	Shipping Weight (higher weights are for SS)	
	psig	(bar)	GPH	(L/h)	mL/stroke	psig	(bar)	GPH	(L/h)	mL/stroke	ft	(m)			spm	in
EXBb																
1000	145	(10)	0.05	(0.23)	0.03	73	(5)	0.07	(0.3)	0.04	19.6	(6)	120	1/4 x 3/16	26.5-35.3	(12-16)
2501	363	(25)	0.26	(1.0)	0.15	290	(20)	0.29	(1.1)	0.17	19.6	(6)	120	1/4 x 3/16	39.7	(18)
1601	232	(16)	0.26	(1.0)	0.14	116	(8)	0.34	(1.3)	0.18	19.6	(6)	120	1/4 x 3/16	26.5-35.3	(12-16)
1201	174	(12)	0.45	(1.7)	0.23	87	(6)	0.53	(2.0)	0.28	19.6	(6)	120	1/4 x 3/16	26.5-35.3	(12-16)
2502	363	(25)	0.53	(2.0)	0.28	290	(20)	0.58	(2.2)	0.31	5.9	(1.8)	120	1/4 FNPT	28.7-37.5	(13-17)
1002 ¹	145	(10)	0.61	(2.3)	0.31	73	(5)	0.71	(2.7)	0.38	19.6	(6)	120	1/2 x 3/8	26.5-35.3	(12-16)
0803	116	(8)	0.98	(3.7)	0.51	58	(4)	1.03	(3.9)	0.54	19.6	(6)	120	1/4 x 3/16	26.5-35.3	(12-16)
2505	363	(25)	1.11	(4.2)	0.64	290	(20)	1.27	(4.8)	0.73	6.5	(2)	110	1/4 FNPT	35.3-44.1	(16-20)
1006 ¹	145	(10)	1.59	(6.0)	0.83	73	(5)	1.9	(7.2)	1	6.9	(2.1)	120	1/2 x 3/8	28.7-37.5	(13-17)
0308	44	(3)	2.27	(8.6)	1.2	22	(1.5)	2.72	(10.3)	1.43	9.8	(3)	120	1/2 x 3/8	26.5-35.3	(12-16)
1310 ¹	188	(13)	2.77	(10.5)	1.59	87	(6)	3.14	(11.9)	1.8	6.5	(2)	110	1/2 x 3/8	35.3-44.1	(16-20)
0613	87	(6)	3.46	(13.1)	1.82	44	(3)	3.94	(14.9)	2.07	8.8	(2.7)	120	1/2 x 3/8	28.7-37.5	(13-17)
0814	116	(8)	3.7	(14.0)	2.12	58	(4)	4.07	(15.4)	2.33	9.8	(3)	110	1/2 x 3/8	35.3-44.1	(16-20)
0417	51	(3.5)	4.6	(17.4)	2.42	29	(2)	4.73	(17.9)	2.49	6.5	(2)	120	1/2 x 3/8	28.7-37.5	(13-17)
0814 ¹	116	(8)	3.7	(14.0)	2.12	58	(4)	4.07	(15.4)	2.33	9.8	(3)	110	1/2 x 3/8	35.3-44.1	(16-20)
0430	51	(3.5)	7.13	(27.0)	4.09	29	(2)	7.79	(29.5)	4.47	9.8	(3)	110	DN 10	35.3-44.1	(16-20)
0260	22	(1.5)	15.85	(60.0)	9.09	-	(-)	-	(-)	-	8.2	(2.5)	110	DN 15	35.3-44.1	(16-20)

Above capacities and suction lift refer to pumps tested on water at 115 VAC, 60 Hz, and an ambient temperature of 70°F (20°C).

Higher specific gravity fluids will reduce suction lift. Higher viscosity fluids will reduce capacity.

Liquid ends for highly viscous media have 10-20% less metering capacity and are not self-priming. Standard connectors are 1/2" MNPT or 5/8" hose barb. Positive suction is recommended.

¹ High Viscosity models are available in the 1002, 1006, 1310 and 0814 models. Liquid end designation is PP4 (Polypropylene/EPDM) Suitable for viscosities to 3500 cps

² SS versions use 1/4" female threads except models 0220, 0420, and 0232 which use 3/8" female threads.

Capacity Data: EXtronic® with Auto-degassing Liquid Ends												
Pump Version NS/PS	Capacity at Maximum Backpressure					Max. Stroking Rate	Connectors Tube/NPT fitting PP/ NP/NS/PS/TT	Suction Lift		Shipping Weight		
	psig	(bar)	GPH	(L/h)	mL/stroke			spm	in	(m)	lbs	(kg)
EXBb												
1601	232	(16)	0.17	(0.7)	0.09	120	1/4 x 3/16	5.9	(1.8)	27	(12)	
1201	174	(12)	0.26	(1.0)	0.14	120	1/4 x 3/16	6.6	(2.0)	27	(12)	
0803	116	(8)	0.63	(2.4)	0.33	120	1/4 x 3/16	9.2	(2.8)	27	(12)	
1002	145	(10)	0.48	(1.8)	0.25	120	1/4 x 3/16	6.6	(2.0)	27	(12)	

Shipping Weight for EXBb Fireproof M Version is an additional 32 lbs. (14 kg).

Liquid end materials in contact with media					
Version	Liquid End	Suction/Discharge valves	Seals	Valve balls	Diaphragm
PP1	Polypropylene	Polypropylene	EPDM	Ceramic	PTFE
PP4 ¹	Polypropylene	Polypropylene	EPDM	Ceramic	PTFE
NP1	Acrylic	PVC	Viton®	Ceramic	PTFE
NP3	Acrylic	PVC	Viton®	Ceramic	PTFE
NS3 ²	Acrylic	PVC	Viton®	Ceramic	PTFE
PS3 ²	PVC	PVC	Viton®	Ceramic	PTFE
TT1	PTFE with carbon	PTFE with carbon	PTFE	Ceramic	PTFE
TTT	PTFE with carbon	PTFE with Carbon	PTFE	Ceramic	PTFE
SS	316 Stainless steel	316 Stainless Steel	PTFE	Ceramic ³	PTFE

¹ PP4 with Hastelloy C valve springs.

² NS3 and PS3 with Hastelloy C valve springs, PVDF valve core. NOTE: Viton® is a registered trademark of DuPont Dow Elastomers.

³ DN 10 and DN 15 valve balls are 316 stainless steel