

Beta[®] b Series

Energy efficient and NSF approved

The **ProMinent[®] Beta[®]** is a microprocessor-based diaphragm solenoid metering pump capable of flows from **0.16 to 8.45 gph (0.59 to 32 l/h)** and pressures to **363 psi (25 bar)**.

Feed rate is determined by stroke length and stroke frequency. Stroke length is adjusted from 0% to 100% with a 10:1 turndown. Stroke frequency is adjusted in 10% increments from 10-100. External contact input for pulse control with a range of 1:64-64:1.

Applications

- Bleach and other off-gassing fluids
- Water and wastewater treatment
- Automated processes in nearly all industries
- Cooling tower and boiler water treatment
- Low flow chemical feed



Features & Benefits

- Certified to **NSF/ANSI 61** (acrylic or PVDF liquid ends)
- 50% less power consumption
- External control via adjustable contact pulse signal 1:64-64:1
- Auto-degassing liquid ends ideal for off-gassing chemicals such as bleach
- Capable of handling up to 3000 cps of viscous media such as polymers
- Integral bleed valve eliminates priming issues
- Continual monitoring of chemical supply with optional dual stage level switch
- Adjustable stroke length and stroke frequency
- Fault and pacing relays optional

ProMinent[®]

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Capacity data

Pump Version	Capacity at Max Backpressure				Capacity at 1/2 Max Backpressure				Pre-Primed Suction Lift ft. (m)	Max. Stroking Rate spm	Tubing Connectors ² O.D. x I.D. inches	Shipping Weight (higher weights are for SS) lbs. (kg)			
	U.S.		mL/ stroke	U.S.		mL/ stroke									
	psig (bar)	GPH (L/h)		psig (bar)	GPH (L/h)										
BT4b															
1000	145	(10)	0.20	(0.74)	0.07	73	(5)	0.22	(0.82)	0.08	19.6	(6)	180	1/4 x 3/16	6.4-7.9 (2.9-3.6)
2001 ³	290	(20)	0.25	(0.96)	0.10	145	(10)	0.40	(1.50)	0.13	19.6	(6)	180	1/4 x 3/16	6.4-7.9 (2.9-3.6)
1601	232	(16)	0.29	(1.10)	0.10	116	(8)	0.37	(1.40)	0.13	19.6	(6)	180	1/4 x 3/16	6.4-7.9 (2.9-3.6)
2002 ³	290	(20)	0.45	(1.70)	0.19	145	(10)	0.74	(2.80)	0.24	19.6	(6)	180	1/4 x 3/16	6.4-7.9 (2.9-3.6)
1602	232	(16)	0.58	(2.20)	0.19	116	(8)	0.66	(2.50)	0.24	19.6	(6)	180	1/4 x 3/16	6.4-7.9 (2.9-3.6)
1604	232	(16)	0.95	(3.60)	0.33	116	(8)	1.14	(4.30)	0.40	19.6	(6)	180	1/4 x 3/16	6.8-8.6 (3.1-3.9)
0708	101	(7)	1.88	(7.10)	0.66	50.5	(3.5)	2.22	(8.40)	0.78	19.6	(6)	180	1/2 x 3/8	6.8-8.6 (3.1-3.9)
0413	58	(4)	3.25	(12.30)	1.14	29	(2)	3.75	(14.20)	1.31	9.8	(3)	180	1/2 x 3/8	6.8-8.6 (3.1-3.9)
0220	29	(2)	5.02	(19.00)	1.76	14.5	(1)	5.52	(20.90)	1.94	6.5	(2)	180	1/2 x 3/8	7.3-9.7 (3.3-4.4)

BT5b												
2504 ³	363 (25)	0.77 (2.90)	0.27		181 (12.5)	0.98 (3.70)	0.34		19.6 (6)	180	(8 x 4mm)	9.9-11.7 (4.5-5.3)
1008	145 (10)	1.80 (6.80)	0.63		73 (5)	2.19 (8.30)	0.76		19.6 (6)	180	1/2 x 3/8	9.9-11.7 (4.5-5.3)
0713	101 (7)	2.91 (11.00)	1.02		50.5 (3.5)	3.46 (13.10)	1.21		13.1 (4)	180	1/2 x 3/8	9.9-11.7 (4.5-5.3)
0420	58 (4)	4.52 (17.10)	1.58		29 (2)	5.05 (19.10)	1.77		9.8 (3)	180	1/2 x 3/8	10.4-12.8 (4.7-5.8)
0232 ¹	29 (2)	8.45 (32.00)	2.96		14.5 (1)	9.56 (36.20)	3.35		6.5 (2)	180	1/2 x 3/8	11.2-14.6 (5.1-6.6)

With auto-degassing liquid ends

BT4b												
1601	232 (16)	0.16 (0.59)	0.06		116 (8)	0.21 (0.80)	0.07		5.9 (1.8)	180	1/4 x 3/16	6.4 (2.9)
1602	232 (16)	0.37 (1.40)	0.13		116 (8)	0.46 (1.74)	0.174		6.9 (2.1)	180	1/4 x 3/16	6.4 (2.9)
1604	232 (16)	0.71 (2.70)	0.25		116 (8)	0.95 (3.60)	0.33		8.8 (2.7)	180	1/4 x 3/16	6.8 (3.1)
0708	101 (7)	1.74 (6.60)	0.61		50.8 (3.5)	1.98 (7.50)	0.69		6.5 (2.0)	180	1/2 x 3/8	6.8 (3.1)
0413	58 (4)	2.85 (10.80)	1.00		29 (2)	3.33 (12.60)	1.17		6.5 (2.0)	180	1/2 x 3/8	6.8 (3.1)
0220	29 (2)	4.28 (16.20)	1.50		14.5 (1)	4.76 (18.00)	1.67		6.5 (2.0)	180	1/2 x 3/8	7.3 (3.3)

BT5b												
1008	145 (10)	1.66 (6.30)	0.58		73 (5)	1.98 (7.50)	0.69		9.8 (3)	180	1/2 x 3/8	9.9 (4.5)
0713	101 (7)	2.77 (10.50)	0.97		51 (3.5)	3.25 (12.30)	1.14		8.2 (2.5)	180	1/2 x 3/8	9.9 (4.5)
0420	58 (4)	4.12 (15.60)	1.44		29 (2)	4.60 (17.40)	1.61		8.2 (2.5)	180	1/2 x 3/8	10.4 (4.7)

Above capacities and suction lift refer to pumps tested on water at 115 VAC, 60 Hz, and an ambient temperature of 70°F (21°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 recommended.

¹ Not available with bleed valve.

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

³ Only available in SS and Acrylic liquid ends

Liquid end materials in contact with media

Version	Liquid End	Suction/Discharge valves	Seals	Valve balls	Diaphragm*
*PVT	*PVDF	*PVDF	PTFE	Ceramic	PTFE
PPT	Polypropylene	*PVDF	PTFE	Ceramic	PTFE
NPT	Acrylic	*PVDF	PTFE	Ceramic	PTFE
TTT	PTFE with Carbon	PTFE with Carbon	PTFE	Ceramic	PTFE
SST	316 Stainless Steel	316 Stainless Steel	PTFE	Ceramic	PTFE

*Highly compatible material suitable for most fluids.

