

Solenoid-Driven Metering Pump beta

Equipped with all the features and properties for superior process management

ProMinent[®]



Capacity range 0.74 - 32 l/h, 25-2 Bar

A range of different pump types and material combinations are available for virtually all metering applications. The virtually wear-free solenoid drive guarantees an exceptionally long service life even under maximum load.

Your benefits

- Optional external control via 0/4 - 20 mA and potential-free contacts with pulse step-up and step-down of 64:1 to 1:64.
- Simple adjustment of metering capacity via stroke rate and stroke length.
- Adaptation to existing signal transducers by external control via potential-free contacts with pulse step-up and step-down.
- Suitable for use with almost all liquid chemicals thanks to the available material combinations: PP, PVDF, clear acrylic, PTFE and stainless steel.
- Self-bleeding dosing head design in clear acrylic/PVC and PP.
- Virtually wear-free solenoid drive: economical and overload-proof.

Field of application

- Metering liquid media in water treatment and chemical processes.



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Technical Data

Pump type	Delivery rate at max. back pressure		Delivery rate at medium back pressure			Stroke rate	Connection size $\varnothing \times i \varnothing$	Suction lift	Shipping weight		
	bar	l/h	bar	l/h	ml/stroke				Strokes/min	mm	m WC
Beta[®] b											
BT4b 1000***	10	0.74	0.07	5.0	0.82	0.08	180	6 x 4	6.0**	2.9	3.6
BT4b 1601***	16	1.1	0.10	8.0	1.4	0.13	180	6 x 4	6.0**	2.9	3.6
BT4b 1602***	16	2.2	0.20	8.0	2.5	0.24	180	6 x 4	6.0**	2.9	3.6
BT4b 1604***	16	3.6	0.33	8.0	4.3	0.40	180	6 x 4	6.0**	3.1	3.9
BT4b 0708***	7	7.1	0.66	3.5	8.4	0.78	180	8 x 5	6.0**	3.1	3.9
BT4b 0413	4	12.3	1.14	2.0	14.2	1.31	180	8 x 5	3.0**	3.1	3.9
BT4b 0220	2	19	1.76	1.0	20.9	1.94	180	12 x 9	2.0**	3.3	4.4
BT5b 2504	25	2.9	0.27	10.0	5	0.46	180	8 x 4****	6.0**	4.5	5.3
BT5b 1008	10	6.8	0.63	5.0	8.3	0.76	180	8 x 5	6.0**	4.5	5.3
BT5b 0713	7	11	1.02	3.5	13.1	1.21	180	8 x 5	4.0**	4.5	5.3
BT5b 0420	4	17.1	1.58	2.0	19.1	1.77	180	12 x 9	3.0**	4.7	5.8
BT5b 0232	2	32	2.96	1.0	36.2	3.35	180	12 x 9	2.0**	5.1	6.6
Beta[®] b metering pumps with self-bleeding dosing head without bypass											
BT4b 1602	10	1.4	0.13	8.0	1.7	0.16	180	6 x 4	1.8**	2.9	–
BT4b 1604	10	2.7	0.25	8.0	3.6	0.33	180	6 x 4	1.8**	3.1	–
BT4b 0708	7	6.6	0.61	3.5	7.5	0.69	180	8 x 5	1.8**	3.1	–
BT4b 0413	4	10.8	1.00	2.0	12.6	1.17	180	8 x 5	1.8**	3.1	–
BT4b 0220	2	16.2	1.50	1.0	18	1.67	180	12 x 9	2.0**	3.3	–
BT5b 1008	10	6.3	0.58	5.0	7.5	0.69	180	8 x 5	1.8**	4.5	–
BT5b 0713	7	10.5	0.97	3.5	12.3	1.14	180	8 x 5	1.8**	4.5	–
BT5b 0420	4	15.6	1.44	2.0	17.4	1.61	180	12 x 9	1.8**	4.7	–

Beta[®] b metering pumps with dosing heads for higher-viscosity media have a 10-20% lower capacity and are not self-priming.

G 3/4-DN 10 connector with 16-DN 10 hose nozzle.

* The given performance data constitutes guaranteed minimum values, calculated using water as the medium at room temperature.

** Suction lift with a filled dosing head and filled suction line, with a self-bleeding dosing head with air in the suction line.

*** Pressure-reduced pump types are available in the pressure ratings 4, 7 and 10 bar for special applications, for example in the swimming pool sector. More detailed information is available upon request.

**** With stainless steel design 6 mm connector width.

All data refers to water at 20 °C.

Materials in Contact With the Medium

	Dosing head	Suction/pressure connector	Ball seat	Seals	Balls
PPT	Polypropylene	PVDF	PVDF	PTFE	Ceramic
NPT	Clear acrylic	PVDF	PVDF	PTFE	Ceramic
PVT	PVDF	PVDF	PVDF	PTFE	Ceramic
TTT	PTFE with carbon	PTFE with carbon	Ceramic	PTFE	Ceramic
SST	Stainless steel material no. 1.4404	Stainless steel material no. 1.4404	Ceramic	PTFE	Ceramic

Metering reproducibility: $\pm 2\%$ when used according to the operating instructions.

Permissible ambient temperature -10 °C to $+45\text{ °C}$.

Degree of protection: IP 66, insulation class F

Scope of supply: Metering pump with mains cable, connector kit for hose/tube connector as per table.

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