

# ProMinent® **CONCEPT<sup>PLUS</sup>**

*solenoid driven diaphragm type metering pump*

## **Affordable - Versatile - Durable**

The **CONCEPT<sup>PLUS</sup>** pump series covers a capacity range of 0.16–3.57 gph (0.6–13.5l/h) at pressures 145 – 21 psig. Its compact construction and features make it ideal for use in flow proportional or on – off control chlorination applications. It easily mounts onto a tank or wall mount bracket and fits into other applications such as grinding systems, car-washing systems, finishing machines, etc. Adjustment of the pump capacity is via the stroke length in the range of 10-100% or can be set at 1 of the 4 stroke frequency settings. This gives an adjustment ratio of 1 : 40. In addition to manually setting the stroke frequency, the pump

can also be set up for external control for use with contact water meters for flow proportional chemical addition or accept a signal from any control system which can provide a voltage free pacing signal. Unlimited flexibility means saving on storage costs. The material combination of NPB and PPE is

available for dosing heads, providing a solution for almost every type of chemical in the area of water treatment. **CONCEPT<sup>PLUS</sup>** offers uncompromising quality and reliability at the best possible price.



**ProMinent® Concept Plus**

## **Benefits**

**Affordability - (low operation and installation costs)**

**Durability - (PP and Acrylic liquid ends)**

**Versatility - compact construction ideal for tank or bracket mounted installations**

- foot or wall mounting
- optional “external contact frequency control” available

**CONCEPT<sup>PLUS</sup>**

**ProMinent®**

# ProMinent® CONCEPT PLUS

*solenoid driven diaphragm type metering pump*

## Technical Data

### CONCEPT PLUS

Pump Type CNPA	Pump Capacity at Maximum Back Pressure				Max. Stroke Rate Stroke/ min.	Output per Stroke mL/ stroke	Max. Suction Lift (water)		Suction/ Discharge Connector O.D. x I.D. (in.)	Shipping Weight (approx.)	
	psig	(bar)	U.S. GPH	(L/h)			ft.	(m)		lbs.	(kg)
1000 NPB	145	(10)	0.16	(0.6)	180	0.06	20	(6)	1/4 x 3/16	3.97	(1.8)
1000 PPE	145	(10)	0.16	(0.6)	180	0.06	20	(6)	1/4 x 3/16	3.97	(1.8)
1601 NPB	232	(16)	0.26	(1.0)	180	0.09	20	(6)	1/4 x 3/16	3.97	(1.8)
1601 PPE	232	(16)	0.26	(1.0)	180	0.09	20	(6)	1/4 x 3/16	3.97	(1.8)
1002 NPB	145	(10)	0.53	(2.0)	180	0.19	16.4	(5)	1/4 x 3/16	3.97	(1.8)
1002 PPE	145	(10)	0.53	(2.0)	180	0.19	16.4	(5)	1/4 x 3/16	3.97	(1.8)
0704 NPB	102	(7)	1.03	(3.9)	180	0.36	13	(4)	1/4 x 3/16	3.97	(1.8)
0704 PPE	102	(7)	1.03	(3.9)	180	0.36	13	(4)	1/4 x 3/16	3.97	(1.8)
0308 NPB	43.5	(3)	2.11	(8)	180	0.74	6.56	(2)	1/2 x 3/8	3.97	(1.8)
0308 PPE	43.5	(3)	2.11	(8)	180	0.74	6.56	(2)	1/2 x 3/8	3.97	(1.8)
0213 NPB	21.76	(1.5)	3.57	(13.5)	180	1.25	4.92	(1.5)	1/2 x 3/8	3.97	(1.8)
0213 PPE	21.76	(1.5)	3.57	(13.5)	180	1.25	4.92	(1.5)	1/2 x 3/8	3.97	(1.8)

## Liquid End Materials of Construction

Material Code	Dosing Head	Suction/Discharge Connectors	Seals	Valve Balls
PPE	Polypropylene	Polypropylene	EPDM	Ceramic
NPB	Acrylic	PVC	Viton®	Ceramic

Viton® is a registered trademark of DuPont Dow Elastomers. DEVELOPAN® diaphragm with PTFE coating in all models

## Identity Code:

Series:  
CNPa Concept PLUS

1000 0704* 1601 0308 1002 0213	pump version:	
	Liquid end materials: Polypropylene Acrylic/PVC	
	PP NP	
	B E	Seals: Viton B EPDM  Viton is a registered trademark of DuPont Dow Elastomers
	2 3	Liquid end version: 2 With bleed valve, w/o valve springs* (* 0704 PP model not available with bleed valve) 3 With bleed valve, w/ valve springs (consult factory for pricing)
	0	Hydraulic Connector: Standard (In accordance with technical data)
	0	Labeling: Standard with logo
	A D U	Electrical connection: A 1 ph 230 V 50/60 Hz (Euro plug) D 1 ph 115 V 50/60 Hz (US/Canada plug) U 1 ph 230 V 50/60 Hz (US/Canada plug)
	0 B	External control: 0 Standard (w/o external control) B With external control (2m cable)
	1	Accessories: With accessories (foot valve, injection valve, tubing)

CNPa 1000 NP B 2 0 0 D 0 1

**ProMinent Fluid Controls, Inc. (USA)**  
136 Industry Drive  
Pittsburgh, PA 15275  
Tel: (412) 787-2484  
Fax: (412) 787-0704

**ProMinent Fluid Controls Ltd. (Canada)**  
490 Southgate Drive,  
Guelph, ON N1G 4P5  
Tel: (519) 836.5692  
Fax: (519) 836.5226

**Please visit us on the web**  
(USA) [www.prominent.us](http://www.prominent.us)  
(Canada) [www.prominent.ca](http://www.prominent.ca)  
(Germany) [www.prominent.com](http://www.prominent.com)  
pn: 7750012

ProMinent® CONCEPT PLUS