

delta® with optoDrive®

Energy efficient and NSF approved



ProMinent®

ProMinent® offers the revolutionary **optoDrive®** for the first time in the **delta®** series. The **optoDrive®** allows the suction & discharge stroke duration to be adjusted. This provides a turndown ratio of 36,000:1.

The **delta®** is a solenoid driven, diaphragm metering pump. It covers a feed range from **1.0 gph at 332 psi (3.8 l/h at 16 bar)** to **19.8 gph at 29 psi (75 l/h at 2 bar)**. Due to its wide adjustment range – both the stroke length and the stroke rate can be varied – this output range is covered by seven different pump sizes. This reduces the variety of replacement parts and therefore the operating costs. The pumps are just as easy to operate as the popular ProMinent® gamma/ X and Sigma series.

Features & Benefits

- Certified to NSF/ANSI 61 (acrylic or PVDF liquid ends)
- Adjustable suction and discharge stroke duration delivers a more even flow
- **optoDrive®** uses the pump energy profile to indicate over-pressure and loss of prime without the need for an external flow monitor
- Auto-degassing design is ideal for off-gassing chemicals
- Turndown ratio makes it possible to reduce the number of pump models required for standardization
- HV liquid ends for higher viscosity media
- pH, ORP or Chlorine control module
- Interface for PROFIBUS® or CANopen (optional)
- Diaphragm rupture detection and signalling (optional)
- **optoGuard®** protection for detecting blockages, dosing head bubbles and line breakage

Applications

- Emulsion polymer feed
- Process applications requiring a large turndown
- Water and Wastewater treatment
- Cooling tower and Boilers

delta[®] built-in auto-degassing technology

- Options to de-gas upon loss of pressure and/or periodically for prevention
- Self detection and correction of airlock (loss of pressure)
- Increased safety through the automatic detection of blocked or broken discharge lines
- Eliminates the need to dilute hypochlorite for small water treatment systems.
- Increased pump accuracy through automatic correction of flow over a wide variation of backpressure

Capacity data

Capacity Data at Maximum Backpressure										
Pump Version	Capacity at Maximum Back Pressure					Pre-Primed Suction Lift		Suction / Discharge connectors	Shipping Weight (higher weights for SST)	
	gph	(l/h)	psig	(bar)	strokes/min.	ft.	(m)		(in.)	lbs.
DLTA										
2508	2.0	(7.5)	363	(25)	200	19.6	(6)	3/8" x 1/2" (1/2" MNPT dis. only)	22-24	(10-11)
1608	2.1	(7.8)	232	(16)	200	16.4	(5)	3/8" x 1/4"	22-24	(10-11)
1612	3.0	(11.3)	232	(16)	200	19.6	(6)	3/8" x 1/4"	22-24	(10-11)
1020	5.04	(19.1)	145	(10)	200	16.4	(5)	1/2" x 3/8"	22-24	(10-11)
0730	7.7	(29.2)	102	(7)	200	16.4	(5)	1/2" x 3/8"	22-24	(10-11)
0450	12.9	(49.0)	58	(4)	200	9.8	(3)	5/8" ID hose barb standard*	22-24	(10-11)
0280	19.8	(75.0)	29	(2)	200	6.7	(2)	5/8" ID hose barb standard*	22-24	(10-11)
DLTA with self-bleeding liquid end without bypass										
1608	1	(3.8)	232	(16)	200	5.9	(1.8)	1/2" x 3/8"	22.0	(10.0)
1612	1.7	(6.5)	232	(16)	200	5.9	(1.8)	1/2" x 3/8"	22.0	(10.0)
1020	3.7	(14.0)	145	(10)	200	5.9	(1.8)	1/2" x 3/8"	22.0	(10.0)
0730	7.4	(28.0)	101	(7)	200	5.9	(1.8)	1/2" x 3/8"	22.0	(10.0)

* (1/2" MNPT optional)

Liquid end materials in contact with media

Capacity Data at Maximum Backpressure					
Version	Liquid End	Suction/Discharge Valves	Seals	Valve Balls	Diaphragm*
*PVT	*PVDF	*PVDF	PTFE	Ceramic	PTFE
SST	316 Stainless Steel	316 Stainless Steel	PTFE	Ceramic	PTFE
NPE	Acrylic	PVC	EPDM	Ceramic	PTFE
NPB	Acrylic	PVC	Viton [®]	Ceramic	PTFE

* Highly compatible material suitable for most fluids.

Viton[®] is a registered trademark of DuPont Dow Elastomers.