

► Flow rates up to 101 gph (382 l/h)
Pressures up to 3500 psi (241 bar)

ProMinent® ProMus Series

Experts in Chem-Feed and Water Treatment

ProMinent®

High Pressure Chemical Process Metering

The **ProMinent® ProMus** is a motor driven metering pump with a **hydraulically actuated Teflon diaphragm**. The plunger and diaphragm are hydraulically coupled and are precisely controlled by a mechanically actuated replenishment valve, which senses diaphragm position to admit coupling fluid as needed. The coupling fluid is automatically degassed to maintain accuracy and the drive case is protected from overload by a simple acting relief valve. The movement of the diaphragm depends on the amount of liquid displaced by the plunger.

Features and benefits

- Hydraulically actuated diaphragm ensuring a sealed pumping system for corrosive or toxic chemicals with superior leak protection
- Built in accordance to API 675 standards suitable for heavy industrial applications and specifications
- Flexible design for a wide range of applications including water treatment and high pressure chemical refining
- Fast and Easy field maintenance with minimal downtime
- Available in PVDF, Stainless Steel, Alloy 20 and Hastelloy C liquid end materials

Applications

- Chemical process applications
- Boiler feed and Catalyst feed
- Petrochemical applications
- Low flow - high pressure applications
- Heavy industrial applications
- Water and wastewater treatment
- Sodium hypochlorite (Bleach) feed applications
- Dye injections



ProMinent® ProMus Pumps & Systems



complete systems



PVDF liquid ends



built-in relief valves

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Capacity data

At 60 Hz (1750 rpm)										At 50 Hz (1458 rpm)				Typical suction/discharge Connection	
Capacity at Max. Backpressure										Capacity at Max. Backpressure					
Plunger (in.)		psig (plastic)	Bar (plastic)	psig (metal)	Bar (metal)	U.S. GPH	(l/h)		Stroke/ min.	U.S. GPH	(l/h)	Stroke/ min	Max. Bar	FNPT/BSP (metal)	MNPT/BSP (plastic)
Size 17	3/8" Plunger	230	16	3500	172	0.61	(2.3)	50	35	*	*	*	*	*	*
	3/8" Plunger	230	16	3500	172	0.76	(2.8)	40	43	0.63	2.45	36	241	1/4	1/4
	3/8" Plunger	230	16	3500	172	1.02	(3.8)	30	58	0.85	3.29	48	241	1/4	1/4
	3/8" Plunger	230	16	3500	172	2.03	(7.6)	15	115	1.69	6.56	96	241	1/4	1/4
	3/8" Plunger	230	16	3500	172	2.44	(9.2)	12.5	138	2.03	7.88	115	241	1/4	1/4
	7/16" Plunger	230	16	3500	172	0.83	(3.1)	50	35	*	*	*	*	*	*
	7/16" Plunger	230	16	3500	172	1.04	(3.9)	40	43	0.87	3.36	36	241	1/4	1/4
	7/16" Plunger	230	16	3500	172	1.38	(5.2)	30	58	1.15	4.46	48	241	1/4	1/4
	7/16" Plunger	230	16	3500	172	2.77	(10.4)	15	115	2.31	8.94	96	241	1/4	1/4
	7/16" Plunger	230	16	3500	172	3.32	(12.5)	12.5	138	2.77	10.72	115	241	1/4	1/4
Size 30	5/8" Plunger	230	16	2080	143	1.80	(6.8)	50	35	*	*	*	*	*	*
	5/8" Plunger	230	16	2080	143	2.25	(8.5)	40	43	1.87	7.26	36	143	1/4	1/2
	5/8" Plunger	230	16	2080	143	3.00	(11.3)	30	58	2.50	9.68	48	143	1/4	1/2
	5/8" Plunger	230	16	2080	143	6.00	(22.7)	15	115	5.00	19.37	96	143	1/4	1/2
	5/8" Plunger	230	16	2080	143	7.20	(27.2)	12.5	138	6.00	23.24	115	143	1/4	1/2
	13/16" Plunger	230	16	1230	85	3.04	(11.5)	50	35	*	*	*	*		
	13/16" Plunger	230	16	1230	85	3.80	(14.3)	40	43	3.17	12.27	36	85	3/8	1/2
	13/16" Plunger	230	16	1230	85	5.07	(19.1)	30	58	4.22	16.37	48	85	3/8	1/2
	13/16" Plunger	230	16	1230	85	10.1	(38.2)	15	115	8.45	32.73	96	85	3/8	1/2
	13/16" Plunger	230	16	1230	85	12.2	(46.1)	12.5	138	10.14	39.28	115	85	3/8	1/2
	1-1/8" Plunger	230	16	640	44	6.34	(24.0)	50	35	*	*	*	*		
	1-1/8" Plunger	230	16	640	44	7.93	(30.0)	40	43	6.61	25.61	36	44	3/8	1/2
	1-1/8" Plunger	230	16	640	44	10.6	(40.1)	30	58	8.81	34.14	48	44	3/8	1/2
	1-1/8" Plunger	230	16	640	44	21.1	(79.8)	15	115	17.62	68.29	96	44	3/8	1/2
	1-1/8" Plunger	230	16	640	44	25.4	(96.1)	12.5	138	21.15	81.95	115	44	3/8	1/2
Size 40	1-3/4" Plunger	230	16	265	18	15.4	(58.2)	50	35	*	*	*	*	*	*
	1-3/4" Plunger	230	16	265	18	19.2	(72.6)	40	43	15.99	61.97	36	18	3/4	3/4
	1-3/4" Plunger	230	16	265	18	25.6	(96.9)	30	58	21.32	82.62	48	18	3/4	3/4
	1-3/4" Plunger	230	16	265	18	51.2	(193.8)	15	115	42.64	165.24	96	18	3/4	3/4
	1-3/4" Plunger	230	16	265	18	61.4	(232.4)	12.5	138	51.17	198.29	115	18	3/4	3/4
	2" Plunger	200	14	200	14	20.1	(76.0)	50	35	*	*	*	*	*	*
	2" Plunger	200	14	200	14	25.1	(95.0)	40	43	20.89	80.94	36	14	3/4	3/4
	2" Plunger	200	14	200	14	33.4	(126.4)	30	58	27.85	107.91	48	14	3/4	3/4
	2" Plunger	200	14	200	14	66.8	(252.8)	15	115	55.70	215.83	96	14	3/4	3/4
	2" Plunger	200	14	200	14	80.2	(303.5)	12.5	138	66.84	258.99	115	14	3/4	3/4
	2-1/4" Plunger	160	11	160	11	25.4	(96.1)	50	35	*	*	*	*	*	*
	2-1/4" Plunger	160	11	160	11	31.7	(119.9)	40	43	26.43	102.43	36	11	3/4	3/4
	2-1/4" Plunger	160	11	160	11	42.3	(160.1)	30	58	35.25	136.58	48	11	3/4	3/4
	2-1/4" Plunger	160	11	160	11	84.6	(327.8)	15	115	70.49	273.16	96	11	3/4	3/4
	2-1/4" Plunger	160	11	160	11	101.5	(384.2)	12.5	138	84.59	327.79	115	11	3/4	3/4

* 50:1 gear not available for 50 Hz operation

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