

ProMus Series

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 continuously degassed to maintain accuracy. 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.



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

Features & 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

ProMinent®

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Capacity data

		At 60 Hz (1750 rpm)				Capacity at Max. Backpressure		Gear Ratio	Max. Stroke Rate	At 50 Hz (1458 rpm) Capacity at Max. Backpressure				Typical suct./dis. Connection	
		psig	Bar	psig	Bar	U.S.				Stroke/	U.S.	Stroke/	Max.	FNPT/ BSP	MNPT/ BSP
Plunger (in.)		(PVDF)	(PVDF)	(metal)	(metal)	GPH	(l/h)	min.	GPH	(l/h)	min	Bar	(metal)	(PVDF)	
Size 17	3/8"	230	16	3500	241	0.2	(0.87)	100	18	-	-	-	-	-	
	3/8"	230	16	3500	241	0.61	(2.3)	50	35	-	-	-	-	-	
	3/8"	230	16	3500	241	0.76	(2.8)	40	43	0.63	2.45	36	241	1/4	
	3/8"	230	16	3500	241	1.02	(3.8)	30	58	0.85	3.29	48	241	1/4	
	3/8"	230	16	3500	241	2.03	(7.6)	15	115	1.69	6.56	96	241	1/4	
	3/8"	230	16	3500	241	2.44	(9.2)	12.5	138	2.03	7.88	115	241	1/4	
	7/16"	230	16	3500	241	0.83	(3.1)	50	35	-	-	-	-	-	
	7/16"	230	16	3500	241	1.04	(3.9)	40	43	0.87	3.36	36	241	1/4	
	7/16"	230	16	3500	241	1.38	(5.2)	30	58	1.15	4.46	48	241	1/4	
	7/16"	230	16	3500	241	2.77	(10.4)	15	115	2.31	8.94	96	241	1/4	
	7/16"	230	16	3500	241	3.32	(12.5)	12.5	138	2.77	10.72	115	241	1/4	
	Size 30	5/8"	230	16	2080	143	1.8	(6.8)	50	35	-	-	-	-	-
5/8"		230	16	2080	143	2.2	(8.5)	40	43	1.87	7.26	36	143	1/4	
5/8"		230	16	2080	143	3.0	(11.3)	30	58	2.50	9.68	48	143	1/4	
5/8"		230	16	2080	143	6.0	(22.7)	15	115	5.00	19.37	96	143	1/4	
5/8"		230	16	2080	143	7.2	(27.2)	12.5	138	6.00	23.24	115	143	1/4	
13/16"		230	16	1230	85	3.0	(11.5)	50	35	-	-	-	-	-	
13/16"		230	16	1230	85	3.8	(14.3)	40	43	3.17	12.27	36	85	3/8	
13/16"		230	16	1230	85	5.1	(19.1)	30	58	4.22	16.37	48	85	3/8	
13/16"		230	16	1230	85	10.1	(38.2)	15	115	8.45	32.73	96	85	3/8	
13/16"		230	16	1230	85	12.2	(46.1)	12.5	138	10.14	39.28	115	85	3/8	
1-1/8"		230	16	640	44	6.3	(24.0)	50	35	-	-	-	-	-	
1-1/8"		230	16	640	44	7.9	(30.0)	40	43	6.61	25.61	36	44	3/8	
1-1/8"		230	16	640	44	10.6	(40.1)	30	58	8.81	34.14	48	44	3/8	
1-1/8"		230	16	640	44	21.1	(79.8)	15	115	17.62	68.29	96	44	3/8	
1-1/8"		230	16	640	44	25.4	(96.1)	12.5	138	21.15	81.95	115	44	3/8	
Size 40	1-3/4"	230	16	265	18	15.4	(58.2)	50	35	-	-	-	-	-	
	1-3/4"	230	16	265	18	19.2	(72.6)	40	43	15.99	61.97	36	18	3/4	
	1-3/4"	230	16	265	18	25.6	(96.9)	30	58	21.32	82.62	48	18	3/4	
	1-3/4"	230	16	265	18	51.2	(193.8)	15	115	42.64	165.24	96	18	3/4	
	1-3/4"	230	16	265	18	61.4	(232.4)	12.5	138	51.17	198.29	115	18	3/4	
	2"	200	14	200	14	20.1	(76.0)	50	35	-	-	-	-	-	
	2"	200	14	200	14	25.1	(95.0)	40	43	20.89	80.94	36	14	3/4	
	2"	200	14	200	14	33.4	(126.4)	30	58	27.85	107.91	48	14	3/4	
	2"	200	14	200	14	66.8	(252.8)	15	115	55.70	215.83	96	14	3/4	
	2"	200	14	200	14	80.2	(303.5)	12.5	138	66.84	258.99	115	14	3/4	
	2-1/4"	160	11	160	11	25.4	(96.1)	50	35	-	-	-	-	-	
	2-1/4"	160	11	160	11	31.7	(119.9)	40	43	26.43	102.43	36	11	3/4	
	2-1/4"	160	11	160	11	42.3	(160.1)	30	58	35.25	136.58	48	11	3/4	
	2-1/4"	160	11	160	11	84.6	(327.8)	15	115	70.49	273.16	96	11	3/4	
	2-1/4"	160	11	160	11	101.5	(384.2)	12.5	138	84.59	327.79	115	11	3/4	

- not available for 50 Hz operation