0.09 - 33 lbs/h (0.04 - 15 Kg/h)

ProMinent® TOMAL® POLYMORE

Experts in Chem-Feed and Water Treatment

In-line polymer makedown system

ProMinent® TOMAL® POLYMORE provides a complete dissolving and dosing system for liquid concentrated emulsion or dispersion polymers.

POLYMORE can be installed in-line, as it dissolves and doses continuously the quantity of polymer corresponding to the process consumption.

The multi-zone mixing chamber gives an outstanding homogenous and activated polymer solution.

ProMinent® TOMAL® POLYMORE

Applications

- Sludge treatment
- Water clarification
- Filter aid

Features and benefits

- Extremely fast and easy field maintenance
- Easy start up by simply connecting water and power supplies
- Space efficient wall mount design
- Wide product range filling numerous needs
- Peristaltic metering pump - less maintenance, no calibration is needed and only one control for pump capacity
- Large non-transparent mixing chamber - long retention time, polymer solution undamaged by UV-light
- Easily accessible liquid polymer injection nipple
- Local or remote (4-20 mA) control standard for all units

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POLYMORE selection guide

When specifying for mechanical sludge dewatering, you should preferably choose a POLYMORE unit with longer retention time. Oversize the unit so that it will not operate at its maximum level. For water treatment plants and sludge thickening it is possible to choose a unit with shorter retention time.

Sample Calculation:

- Sludge amount: 2,119 ft^3/h (60 m3/h)
- Dry Substance (DS) content: 1.2 %
- Polymer requirement per ton DS (100% polymer): 11 lb. (5 kg)

Note: Sludge, DS-content and polymer requirement are always depending on the actual application and type of sludge and polymer. Figures given are only as an example.

Calculation: 2,119 ft^3/h x 0.012 x 11 lb/t = 8 lbs polymer/h
(60 m^3/h x 0.012 x 5 kg/t = 3.6 kg polymer/h)

If only a shorter retention time is needed i.e. in a sludge thickening application, choose a POLYMORE duo 55 - 9 A. If a longer retention time is needed choose a POLYMORE maxi 100 -12 A.

Capacity data

Max. capacity 100% polymer		POLYMORE unit	Concentrated polymer		Preparation water		Retention time max cap. min. cap.	
lbs/h	(kg/h)		gph	(l/h)	gph	(l/h)	(seconds)	
0.09	(0.04)	Mini 2 - 0.08	0.02	(0.08)	31.7	(120)	210	840
0.67	(0.3)	Mini 3 - 0.6	0.16	(0.6)	47.6	(180)	140	840
0.67	(0.3)	Mini 5 - 0.6	0.16	(0.6)	79.3	(300)	84	420
1.32	(0.6)	Mini 5 - 1.2	0.32	(1.2)	79.3	(300)	84	420
1.32	(0.6)	Mini 10 - 1.2	0.32	(1.2)	158.5	(600)	42	210
2.65	(1.2)	Mini 10 - 2.4	0.63	(2.4)	158.5	(600)	42	210
3.31	(1.5)	Mini 30 - 3	0.79	(3.0)	396.3	(1500)	70	210
4.41	(2.0)	Duo 40 - 6	1.06	(4.0)	528.3	(2000)	150	495
8.82	(4.0)	Duo 55 - 9	2.11	(8.0)		(3200)	70	330
6.61	(3.0)	Maxi 65 - 9.0	1.59	(6.0)	792.5	(3000)	100	380
11.02	(5.0)	Maxi 100 - 12	2.64	(10.0)	1320.9	(5000)	105	440
16.53	(7.5)	Maxi 120 - 12	3.17	(12.0)	1585	(6000)	60	285
13.23	(6.0)	Maxi 155 - 19	3.96	(15.0)	1981.3	(7500)	95	450
22.05	(10.0)	Maxi 160 - 24	5.28	(20.0)	2536.1	(9600)	50	250
33	(15.0)	Maxi 175 - 38	7.93	(30.0)	2773.8	(10500)	55	270

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