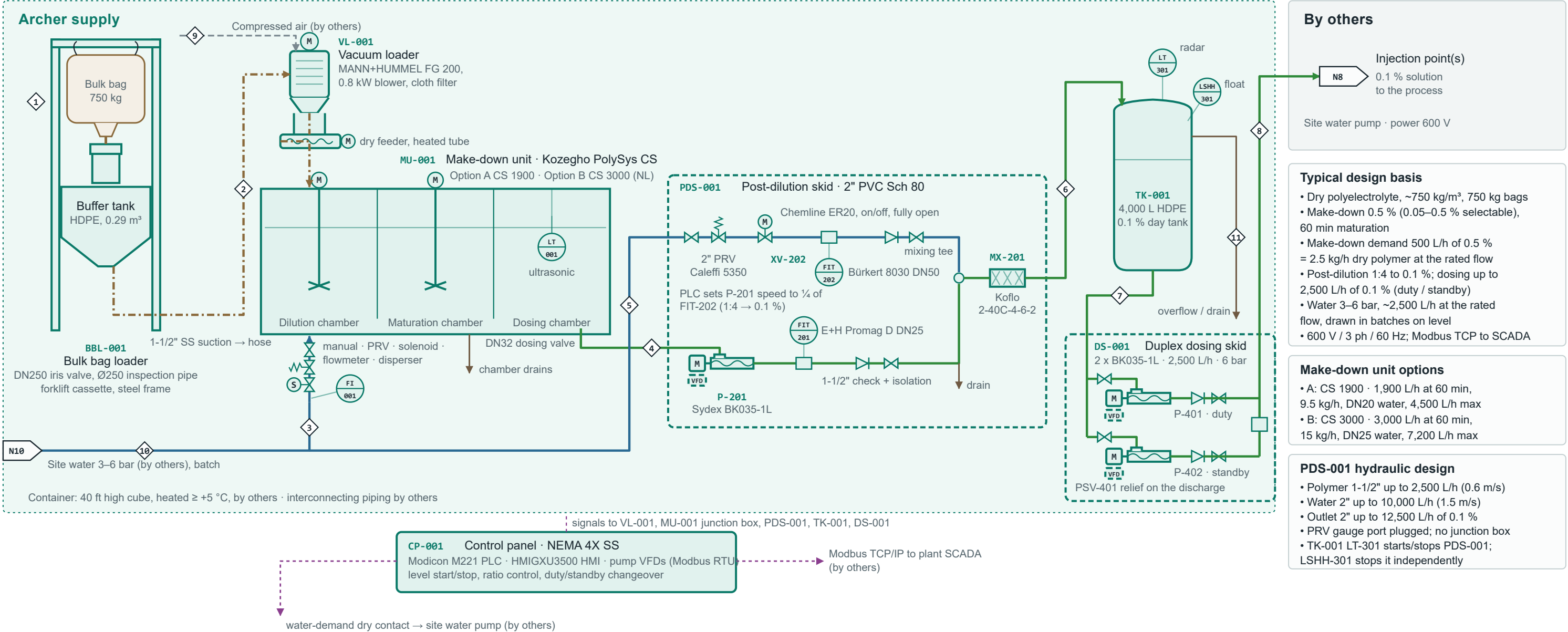




STREAMS						
NO.	STREAM	FROM → TO	FLUID	CONC.	FLOW	
1	Dry polymer from the bulk bag	Bulk bag → BBL-001 buffer tank	powder	–	750 kg bag, batch	
2	Dry polymer conveying	BBL-001 → VL-001 → MU-001 dry feeder	powder	–	2.5 kg/h at rated (VL 100–250 kg/h)	
3	Make-down water	Site water → MU-001 dilution chamber	water	–	500 L/h at rated (A 4,500 / B 7,200 L/h max)	
4	Matured polymer solution	MU-001 dosing chamber → PDS-001 P-201	polymer solution	0.5 %	500 L/h at rated (skid up to 2,500 L/h)	
5	Dilution water	Site water → PDS-001 (XV-202, FIT-202)	water	–	2,000 L/h at rated (skid up to 10,000 L/h)	
6	Diluted polymer to the day tank	PDS-001 MX-201 → TK-001	polymer solution	0.1 %	2,500 L/h at rated (up to 12,500 L/h)	
7	Day tank to dosing pumps	TK-001 → DS-001 suction	polymer solution	0.1 %	up to 2,500 L/h	
8	Polymer dosing to the process	DS-001 (P-401 / P-402) → injection point(s)	polymer solution	0.1 %	up to 2,500 L/h, 6 bar max	
9	Compressed air, filter cleaning	By others → VL-001	air	–	intermittent	
10	Site water supply	Site water pump (by others) → N10	water	–	~2,500 L/h at rated, 3–6 bar, batch	
11	Overflow and drains	TK-001, MU-001 chambers, PDS-001 → drain / sump	solution / water	≤ 0.5 %	intermittent	

LEGEND

Archer supply Skid boundary By others Dry polymer Polymer solution Water

Compressed air Signal Drain / overflow

Typical arrangement. Complete dry polymer system, Archer Separation supply. Flows at the rated duty; skid hydraulic maxima shown where larger. Every system is designed to its own basis. Not for construction.



TITLE

Dry polymer make-down and dosing system

Process flow diagram · 40 ft high cube container

DRAWING NO.

DPS-PFD

SIZE

Tabloid 11×17

DATE

2026-10-31

SCALE

NTS

REV

A

BY

Venkatesh Narayan, P.Eng.