

	Client Number: 28C3-D-4IN-DSH-034-3302-01-ME-403	Rev
Class: FA	Document Number: 12002-D-ME-DSH-303-DWT-403	Client
	Library Code: 303-E03-0000-00-ME-DSH-403-00	00
	Document Title: Data Sheet for Flocculant Package-Dewatering Area	00
		Date: 08/19/2025
		Page 2 of 8

Tabulation of Revised Page

Sheet	Revisions						Sheet	Revisions						
	00	01	02	03	04	05		00	01	02	03	04	05	
1	X						31							
2	X						32							
3	X						33							
4	X						34							
5	X						35							
6	X						36							
7	X						37							
8	X						38							
9							39							
10							40							
11							41							
12							42							
13							43							
14							44							
15							45							
16							46							
17							47							
18							48							
19							49							
20							50							
21							51							
22							52							
23							53							
24							54							
25							55							
26							56							
27							57							
28							58							
29							59							
30							60							

	Client Number: 28C3-D-4IN-DSH-034-3302-01-ME-403	Rev		Date: 08/19/2025
Class: FA	Document Number: 12002-D-ME-DSH-303-DWT-403	Client	Vendor	Page 3 of 8
	Library Code: 303-E03-0000-00-ME-DSH-403-00	00	00	
	Document Title: Data Sheet for Flocculant Package-Dewatering Area			

TABLE OF CONTENTS

1. DOSING PUMP DATA SHEET	4
---------------------------------	---

	Client Number: 28C3-D-4IN-DSH-034-3302-01-ME-403	Rev	Date: 08/19/2025
Class: FA	Document Number: 12002-D-ME-DSH-303-DWT-403	Client	Vendor
	Library Code: 303-E03-0000-00-ME-DSH-403-00	00	00
	Document Title: Data Sheet for Flocculant Package-Dewatering Area		Page 4 of 8

1. DOSING PUMP DATA SHEET

No.	Description	Units	Value
1	General data		
1-1	Quantity	#	1 Operational & 1 Standby
1-2	Tag No. / Location (indoors/ outdoors)	-	PU 3-34-1506- 3~4/Indoor
1-3	Application Description	-	Dosing pumps flocculant Package
Process / Operating Conditions			
2	Material Processed		
2-1	Ore Type	-	Copper ore
2-2	Fluid Type	-	Flocculant
2-3	Ore specific gravity	t/m ³	4.0
2-4	Feed top size (F100)	micron	90
2-5	Feed F80	micron	20
2-6	Dosage	g/t	10 (VTC)
3	Operating conditions		
3-1	Service Type	-	Continuous
3-2	Configuration	-	horizontal
3-3	Duty (from– to)	-	Receiving tank to Cu thickener
3-4	solids feed rate per pump (design)	g/h	931.2
3-5	solid feed rate per pump (nominal)	g/h	807.04
3-6	Slurry flowrate (design)	m ³ /h	1.86
3-7	Slurry flowrate (nominal)	m ³ /h	1.61

	Client Number: 28C3-D-4IN-DSH-034-3302-01-ME-403	Rev	Date: 08/19/2025
Class: FA	Document Number: 12002-D-ME-DSH-303-DWT-403	Client	Vendor
	Library Code: 303-E03-0000-00-ME-DSH-403-00	00	00
	Document Title: Data Sheet for Flocculant Package-Dewatering Area		
			Page 5 of 8

No.	Description	Units	Value
3-8	Discharge pressure	Bar	7 (VTC)
3-9	NPSH Available	m	(VTS)
3-10	Suction head (at 60% and 80% levels)	m	10
3-11	Power absorbed (mechanical)	KW	1.5 (VTC)
3-12	Efficiency at the design point	%	VTS
mechanical information			
4	Technical specs		
4-1	Manufacturer/Model	-	As per AVL
4-2	Model	-	VTS
4-3	Type	-	<i>Screw pump</i>
4-4	Design pump operating speed	rpm	(VTS)
4-5	Max pump operating speed	rpm	(VTS)
4-6	Inlet diameter	mm	(VTS)
4-7	Discharge diameter	mm	(VTS)
4-8	Flange specification	-	ASME B 16.5
4-9	Number of Sliding Shoes	mm	VTS
4-10	Sealing arrangement	-	VTS
5	Materials of construction/wear protection		
5-1	Pump housing	-	Cast-iron (VTC)
5-2	Pump Hose	-	PE (VTC)
5-3	Liner	-	Rubber
5-4	Rotor	-	SS. 304 (VTC)

No.	Description	Units	Value
-----	-------------	-------	-------

	Client Number: 28C3-D-4IN-DSH-034-3302-01-ME-403	Rev	Date: 08/19/2025
Class: FA	Document Number: 12002-D-ME-DSH-303-DWT-403	Client	Vendor
	Library Code: 303-E03-0000-00-ME-DSH-403-00	00	00
	Document Title: Data Sheet for Flocculant Package-Dewatering Area		Page 6 of 8

5-5	Shaft	-	SS 304 (VTC)
5-6	Wear ring	-	VTs
6	Drive specifications		
6-1	Drive gearbox		Yes (VTC)
6-2	Cooling		VTs
7	Bearing details		
7-1	Motor end bearing type		VTs
7-2	Pump end bearing type		VTs
7-3	Lubrication type		OIL (VTC)
8	Piping details		
8-1	Static head	m	VTs
8-2	Total pipe length	m	VTs
8-3	90 deg bends	qty	VTs
8-4	45 deg bends	qty	VTs
8-5	T pieces	qty	VTs
9	masses		
9-1	Empty mass (complete HC manifold)	kg	VTs
9-2	Operating mass (complete HC manifold)	kg	VTs
10- I&C information			
10-1	Temperature sensor & transmitter	#	VTs
10-2	Vibration sensor & Transmitter	#	VTs
11- ELECTRICAL CHARACTERISTICS			
11-1	Drive type	-	DIRECT
11-2	Drive gearbox	-	NA
11-3	Cooling	-	NA
11-4	Install Power	KW	VTs

	Client Number: 28C3-D-4IN-DSH-034-3302-01-ME-403	Rev	Date: 08/19/2025
Class: FA	Document Number: 12002-D-ME-DSH-303-DWT-403	Client	Vendor
	Library Code: 303-E03-0000-00-ME-DSH-403-00	00	00
	Document Title: Data Sheet for Flocculant Package-Dewatering Area		Page 7 of 8

11-5	Power supply	ϕ , V, Hz	3 Phase, 400 $\pm$ 10% V, 50 $\pm$ 5% Hz
11-6	Motor speed	RPM	1440@50HZ (VTC)
11-7	Insulation Grade	-	F
11-8	Temp. Class:	-	B
11-9	IEC Motor Protection	-	IP55
11-10	Motor Type	-	Squirrel cage
11-11	Manufacturer	-	VTs
12- PROCESS DATA FOR TANKS			
12-1	Tank Type:	-	VERTICAL
12-2	Storage Volume	Liter	VTs
12-3	Operating Pressure	barg	Atmospheric
12-4	Operating Temperature	°C	Ambinet
12-5	Maximum inflow rate	lit/hr	VTs
12-6	Maximum outflow rate	lit/hr	Gravity Drain Flow
12-7	Fluid Density	kg/m3	VTs
12-8	Fluid Viscosity	cp	VTs
13- MIXER DATA			
13-1	Tag No.		AG-3-34-2401-03 AG-3-34-2401-04 AG-3-34-2401-05
13-2	MFR/Model	-	VTs
13-3	Operating Temperature	°C	AMB
13-4	Operating Pressure	barg	ATM
13-5	Liquid Handled	-	FLOCCULANT
13-6	Density at Oper. Temp	. kg/m3	VTs
13-7	Material of Shaft and Impeller	-	VTs
13-8	Coating	-	VTs
13-9	Type	-	Vertical
13-10	Impeller Diameter	mm	VTs

	Client Number: 28C3-D-4IN-DSH-034-3302-01-ME-403	Rev	Date: 08/19/2025
Class: FA	Document Number: 12002-D-ME-DSH-303-DWT-403	Client	Vendor
	Library Code: 303-E03-0000-00-ME-DSH-403-00	00	00
	Document Title: Data Sheet for Flocculant Package-Dewatering Area		Page 8 of 8

13-11	Volume of Liquid	lit	VTs
13-12	Motor Power	KW	VTs
13-13	Motor Speed	RPM	VTs
13-14	Ingress Protection	-	VTs
13-15	Insulation Class	-	F
13-16	Temperature Rise	-	B