	V–001	V–002
	DESANDER HYDROCYCLONE	ACCUMULATOR VESSEL
DESIGN PRESSURE:	FV–17.7 Barg (FV–256 psig)	FV–17.7 Barg (FV–256 psig)
DESIGN TEMPERATURE:	–10 – 95°C (14–203°F)	–10 – 95°C (14–203°F)
OPERATING PRESSURE:	7–15 Barg (100–217 psig)	7–15 Barg (100–217 psig)
OPERATING TEMPERATURE:	20–90°C (68–194°F)	20–90°C (68–194°F)
MATERIAL OF CONSTRUCTION:	CARBON STEEL	CARBON STEEL
LINER TYPE:	CYCLONIXX (R) XS–51–HC	

SIZING TABLE

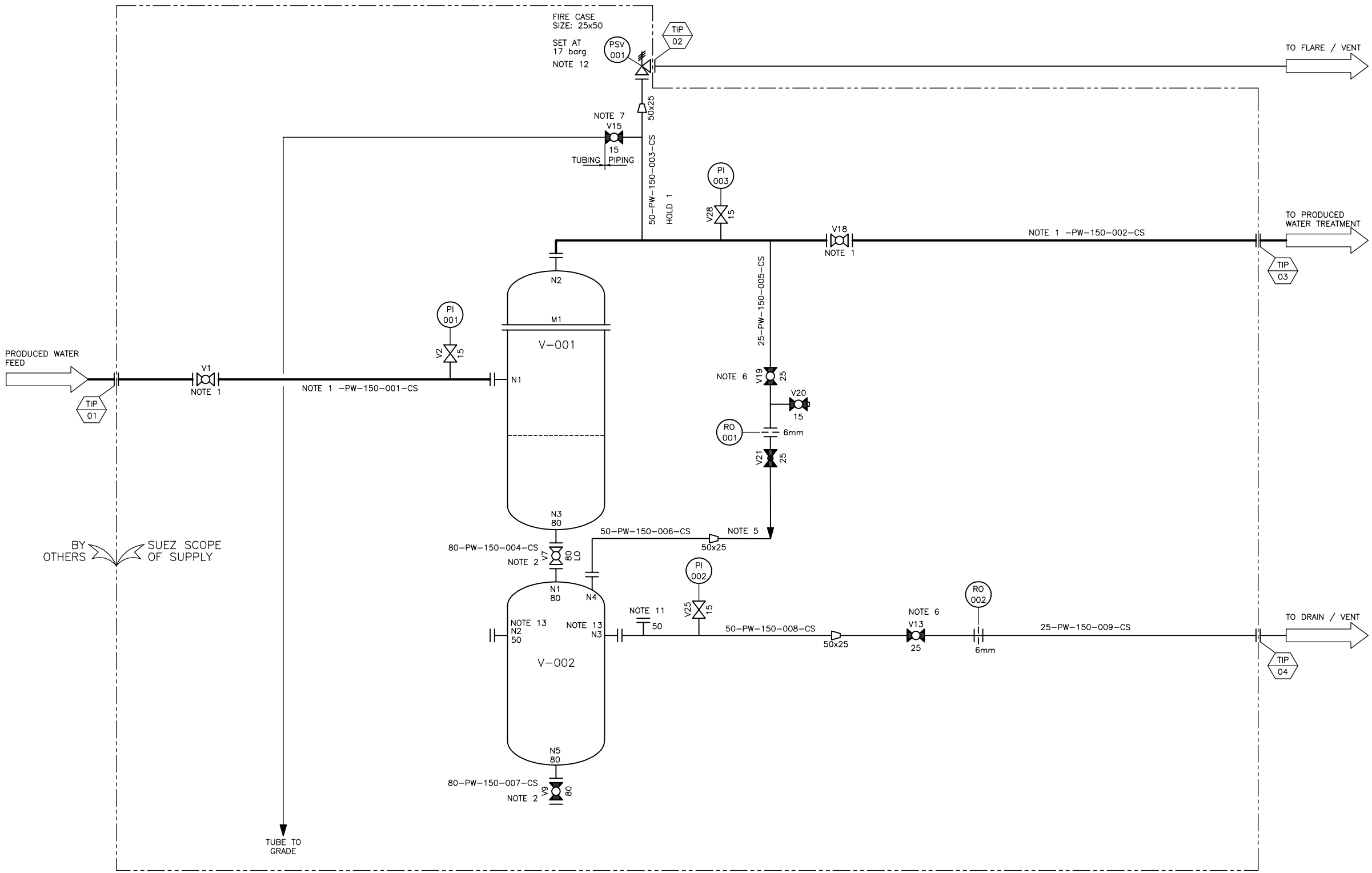
UNIT CAPACITY (NOTE 3)		VALVE / LINE SIZES (NOTE 1)	DESANDER CYCLONE VESSEL SIZING	ACCUMULATOR VESSEL SIZING
BPD	m3/hr		DIA.	DIA. / VOL.
5,000	33	80	300 NB	400 NB / 60 LITERS
		3"	12" NB	16" / 16 gals
10,000	66	100	400 NB	400 NB / 60 LITERS
		4"	16" NB	16" / 16 gals
25,000	166	150	600 NB	600 NB / 150 LITRES
		6"	24" NB	24" / 40 gals
50,000	331	200	900 NB	600 NB / 150 LITRES
		8"	36" NB	24" / 40 gals

NOTES

1. REFER TO SIZING TABLE FOR VALVE/LINE SIZE.
2. METAL SEATED BALL VALVES, FULL BORE.
3. UNIT CAPACITY BASED ON PRESSURE DROP (INLET TO OUTLET) OF MINIMUM 2 BAR (29 PSI).
4. ANSI CLASS 150# SYSTEM DESIGN. NOTE, VESSEL FLANGES SHALL BE ANSI CLASS 300#.
5. REPRESSURIZATION LINE.
6. INSTALLED WITH DEADMAN'S HANDLE.
7. V15 TO BE ABOVE VESSEL.
8. PRESSURE VESSELS SHALL BE DESIGNED ACCORDING TO ASME BVPC SECTION VIII DIV. 1 (2019) AND U–STAMPED.
9. WETTED PARTS TO COMPLY WITH NACE.
10. VALVES SHALL BE FIRE SAFE CERTIFIED AS PER API607.
11. BRANCH FOR ADDITIONAL PSV IF REQUIRED.
12. PSV INLET NOZZLE SHALL BE LOCATED MAXIMUM 1 METRE ABOVE DESANDER HYDROCYCLONE OUTLET NOZZLE (N2).
13. NOZZLE N2 AND N3 TO BE ABOVE MAX SAND LEVEL.

HOLDS

1. PSV–001 INLET LINE SIZE TO BE CONFIRMED BY COMPLETED PSV INLET LINE SIZING CALCULATION.



No.	DATE	REVISION DETAILS	BY	CHK	APPD
A	04-MAY-21	ISSUED FOR PROCESS FREEZE	ST		

REVISION

Allen Tung — Digitally signed by Allen Tung Date: 2021.05.04 14:20:16 +10'00'

CHK | APPD

DIGITAL SIGNATURES

DWG No. | TITLE

REFERENCE DWG'S

CLIENT

ORDER No.

CLIENT DWG No.

SUEZ Oil & Gas Systems

PROJECT REFERENCE :

DWG TITLE

DESANDER HYDROCYCLONE PACKAGE
PRODUCED WATER DESANDER
PIPING & INSTRUMENTATION DIAGRAM

SCALE (A3)	DO NOT SCALE DWG	DWG No.	REV.
		DCS-CS-000-PID-001	A