

# SPECIFICATIONS

# TPS™

MK3 VERSION	
Length	7.5 m
Diameter	0.4 m
Volume	28.000 cuin
Weight in water	645 kg
Weight in air, flooded	1320 kg
Shackles	3/4 inch
Operating pressure	600-1000 psi
Max slope @10 m depth	1.0 BarM/msec
SPL (Zero to Peak) @10 m	238 dB re $\mu$ PaM
SPL (peak to Peak) @10 m	240 dB re $\mu$ PaM
Bubble frequency @10 m	2.8 Hz
Minimum length of the float	14 m
Recommended number of near field Hydrophones and positions	2 minimum (over/under)
Recommended number of depth sensors on the sub array	1 minimum
Depth variation*	$\pm$ 0.5 m
Pressure variation	$\pm$ 50 psi
Pressure drop test**	100 psi over 10 min
Warm up shots How many warm up shots are needed	< 30 shots
Vessel speed in sea	3 mini knots minimum 6 knots maximum

\*in good weather condition

\*\*as an example 2400 cuin chambers

NB : if you wish to calculate the air flow required for the TPS or want to obtain an acoustic signature of the source, please [contact us](#).

FLOW RATE TABLE (cfm)							
Inlet Pressure = 1000 psi (69 bars)		Umbilical length (m)					
		100	200	300	400	500	600
Umbilical diameter (inch)	D = 1,00	2,6	1,9	1,6	1,3	1,1	1,0
	D = 1,25	3,5	2,9	2,5	2,2	1,9	1,7
	D = 1,5	4,2	3,7	3,4	3,0	2,7	2,4
Inlet Pressure = 1250 psi (86 bars)		Umbilical length (m)					
		100	200	300	400	500	600
Umbilical diameter (inch)	D = 1,00	4,5	3,4	2,8	2,4	2,1	1,9
	D = 1,25	6,1	4,8	4,2	3,7	3,4	3,0
	D = 1,5	6,7	6,1	5,2	4,8	4,5	4,2
Inlet Pressure = 1500 psi (103 bars)		Umbilical length (m)					
		100	200	300	400	500	600

REFILL TIME (sec)							
Inlet Pressure = 1000 psi (69 bars)		Umbilical length (m)					
		100	200	300	400	500	600
Umbilical diameter (inch)	D = 1,00	26	35	43	51	59	66
	D = 1,25	19	23	27	31	36	40
	D = 1,5	16	18	20	22	25	28
Inlet Pressure = 1250 psi (86 bars)		Umbilical length (m)					
		100	200	300	400	500	600
Umbilical diameter (inch)	D = 1,00	15	20	24	28	32	35
	D = 1,25	11	14	16	18	20	22
	D = 1,5	10	11	13	14	15	16
Inlet Pressure = 1500 psi (103 bars)		Umbilical length (m)					
		100	200	300	400	500	600
Umbilical diameter (inch)	D = 1,00	12	16	20	23	26	28
	D = 1,25	8	10	12	14	16	17
	D = 1,5	8	9	10	11	12	13

Note: Sercel reserves the right to change its specifications without prior notice.  
All specifications are typical at 25°C.

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