

SPECIFICATIONS

TPS™

Max length	8.01 m
Diameter	0.4 m
Chamber Diameter	0.305 m
Volume	28000 cuin
Approx weight in water*** (unflooded / 1025kg/m³ seawater)	950kg
Max weight in air & flooded (1025 kg/m³ seawater)	~2120kg
Operating pressure	500-1000 psi
Slope @1000 psi	1.0 BarM/msec
SPL (Zero to Peak) @8 m	238 dB re µPaM
SPL (peak to Peak) @8 m	240 dB re µPaM
Bubble frequency @8 m	2.8 Hz
Acceptable depth variation*	± 0.75 m
Acceptable pressure variation*	± 100 psi
Pressure drop test	100 psi over 10 min
Warm up shots How many warm up shots are needed	< 30 shots
Minimum vessel water speed	Recommended 4 - 6.5 knots**

*Contract dependent

**Vessel speed and refill time modeling upon request

***Rigging weight not included

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: HOU_TPS_Support@sercel.com



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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	2600	1900	1600	1300	1100	1000
	D = 1.25	3500	2900	2500	2200	1900	1700
Inlet Pressure = 1250 psi (86 bars)		Umbilical length (m)					
		100	200	300	400	500	600
Umbilical diameter (inch)	D = 1.00	4500	3400	2800	2400	2100	1900
	D = 1.25	6100	4800	4200	3700	3400	3000
Inlet Pressure = 1500 psi (103 bars)		Umbilical length (m)					
		100	200	300	400	500	600
Umbilical diameter (inch)	D = 1.00	5600	4200	3400	2900	2600	2400
	D = 1.25	8400	6700	5600	4800	4200	3900
Inlet Pressure = 2000 psi (138 bars)		Umbilical length (m)					
		200	400	600	800	1000	
Umbilical diameter (inch)	D = 1.00	6204	4550	3791	3250	2967	
	D = 1.25	8530	7583	6204	5249	4875	

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
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
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
Inlet Pressure = 2000 psi (138 bars)		Umbilical length (m)					
		200	400	600	800	1000	
Umbilical diameter (inch)	D = 1.00	11	15	18	21	23	
	D = 1.25	8	9	11	13	14	

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

SERCEL - FRANCE

16 rue de Bel Air - B.P. 30439 - 44474 CARQUEFOU Cedex
 Téléphone : (33) 2 40 30 11 81
 E-mail : sales.nantes@sercel.com
 SAS au capital de 25 000 000 €
 Siège Social : 16 rue de Bel Air - 44470 CARQUEFOU
 378.040.497 R.C.S. Nantes Code APE 2651B

SERCEL INC. - U.S.A.

17300 Park Row
 Houston, Texas 77084
 Telephone : (1) 281 492 6688
 E-mail : sales.houston@sercel.com

sercel.com