Customer Need	Design Attributes	Metric	Units	Value
	Provide user with two extra breaths to survive			
Provides air underwater	underwater	Volume	breaths = avg 1.6L	≥ 1
Regulator stays in place on arm	Fixed location on user's arm	Length Displacement	cm	≤2
Regulator stays in place on arm	Fixed direction on user's arm	Angle turned	Degrees	≤ 10°
Not cumbersome on arm	Lightweight	weight	lbs	≤ 2
Not cumbersome on arm	Maximum distance protruding from arm	length	cm	≤ 4
Not cumbersome on arm	Inobtrusive hose diameter	length	cm	≤ 2
Device does not restrict motion	Have full range of motion with product on	Angle of movement lost	Degrees	≤10°
Safe to use	Contains high pressure release	Has check/valve	yes/no	yes
Safe to use	Temperature is safe for lungs	temperature	С	≥ -15
Accessibility	Time to activate mouthpiece	time	seconds	≤ 5
Survives activity	Durable	lifespan	uses	≥ 100
Hands free operation	Breath Activated	Pressure Difference	psi	≤.5
High quality of air	Air is SCUBA certified	Binary	yes/no	yes
Air stays in canister	Pressurized for at least 5 days	leak rate	L/s	≤ 6E-6
Easy to refill	Refillable by SCUBA	Binary	yes/no	yes
Affordability	Affordable	Selling price	Dollars	≤500