

Fig. 14. Velocity diagram in the center of domain at collapse time.

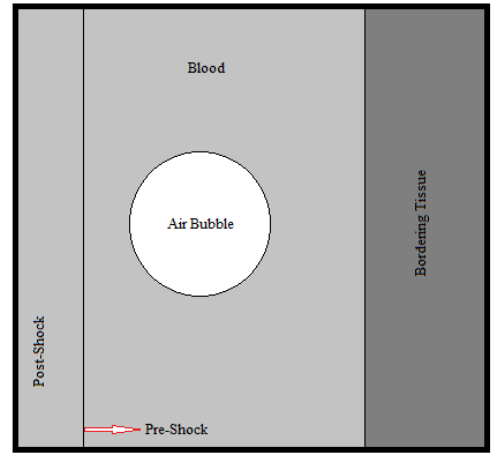


Fig. 15. The schematic of 3-phase shock bubble interaction.

Table 3. Shockwave speed in different shockwave strength.

Post shock pressure	Shock wave strength
$P_s=40$ MPa	$Ma=1.30$
$P_s=60$ MPa	$Ma=1.55$
$P_s=80$ MPa	$Ma=1.75$
$P_s=110$ MPa	$Ma=1.97$

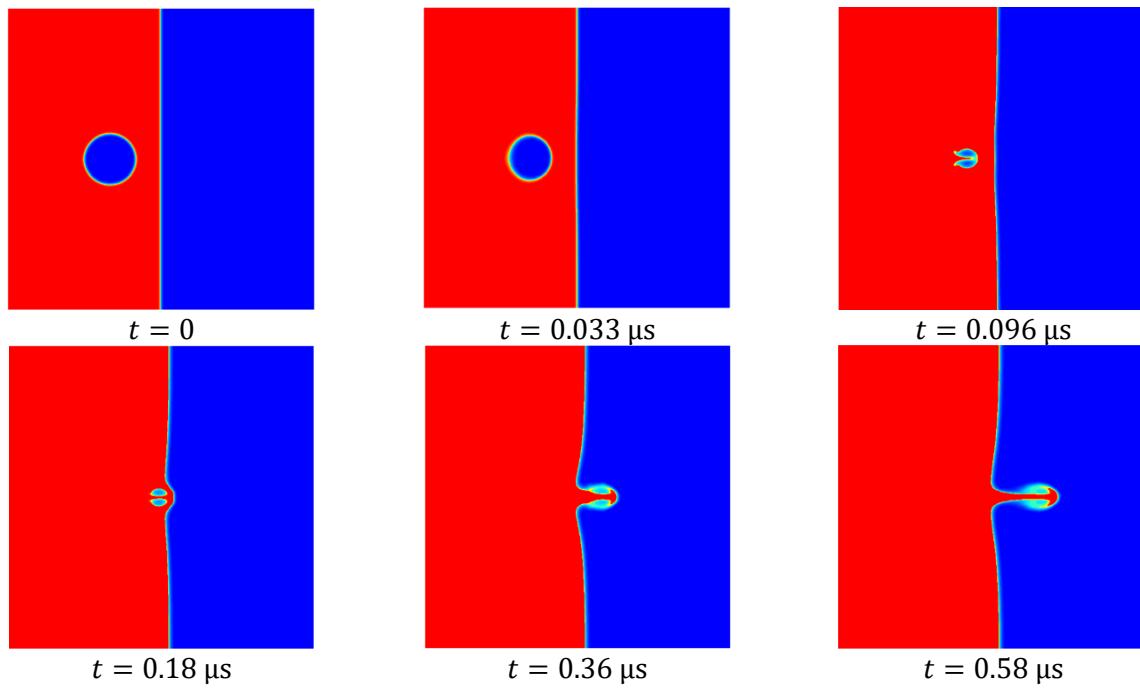


Fig. 16. Volume fraction in different time.

