

HP spatter volume [m3]	HP spatter density [kg/m3]	HP spatter mass[kg]	HP DRE density [kg/m3]	HP high density (10% bubbles) [kg/m3]	HP low density (20%bubbles)[kg/m3]
70000	1350	94500000	2850	2565	2280
volume HP conduit @high density (m3)	volume HP conduit @low density (m3)	conduit depth (radius 2,5m) low density	conduit depth (radius 2,5m) high density	velocity high [m/s]	velocity low [m/s]
36842	41447	1877	2112	156	176

LP mass eruption rate [kg/s]	LP foam density [kg/m3]	LP DRE density [kg/m3]	LP foam volumetric eruption rate [m3/s]	LP DRE volumetric eruption rate [m3/s]	LP DRE ascent velocity [m/s]	LP foam ascent velocity [m/s]
1100000	1000	2776	1100	396	56	20
decompression rate [Pa/s]	HP density high [kg/m3]	HP density low [kg/m3]	depth in the conduit equal to 0.82 MPa (h=P/rho g) [m]			
820000	2565	2280	33	37		
decompression rates [Pa/s]	LP foam density [kg/m3]	LP DRE density [kg/m3]	depth in the conduit equal to dP in MPa (h=P/rho g)[m/s]	depth in the conduit equal to dP in MPa (h=P/rho g)[m/s]		
430000	1000	2776	44	16		
480000	1000	2776	49	18		
2150000	1000	2776	219	79		
2490000	1000	2776	254	91		

141	51 average velocities [m/s]
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