

Thermowells: Maximum Fluid Velocity vs. Insertion Length

Thermowell Material	Fluid Type	Insertion Length (Inches)		
		2"	4"	8"
		Maximum Fluid Velocity (Feet per Second)		
Brass	Air/Steam	207	75.5	27.3
	Water	59.3	32.2	19.7
Welded Stainless Steel	Air/Steam	169	61	20
	Water	88	20	10
304 Stainless Steel	Air/Steam	300	109	39.5
316 Stainless Steel	Water	148	82.2	-

Note: The values shown in this table are based on operating temperatures of 350 °F for brass and 1,000 °F for stainless steel. Slightly higher velocities are possible at lower temperatures.