Calcular $L = \lim\limits_{\substack{x \to 1 \\ y \to 1}} \dfrac{\sqrt[3]{xy} - 1}{\sqrt{xy} - 1}$.

$$L = \lim_{\substack{x \to 1 \\ y \to 1}} \frac{\left(\sqrt[3]{xy} - 1\right)\left(\sqrt{xy} + 1\right)}{xy - 1} = \lim_{\substack{x \to 1 \\ y \to 1}} \frac{\cancel{\left(\sqrt[3]{xy} - 1\right)}\left(\sqrt{xy} + 1\right)}{\cancel{\left(\sqrt[3]{xy} - 1\right)}\left(\sqrt[3]{x^2 y^2} + \sqrt[3]{xy} + 1\right)} = \boxed{\frac{2}{3}}$$

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