

Annexure 1: Technical specifications of constant flow piston pump

The indent is being raised to procure constant flow, piston pumps for routine laboratory use in various R&D activities. The detailed technical specifications are provided below.

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| Type | Constant flow piston pump |
| Features | <ul style="list-style-type: none">• Double (parallel) piston/cylinder arrangement to minimize pulsation• Display of operating pressure by using an in-built pressure sensing or a pressure estimation mechanism pressure• User settable trip pressure to ensure safe operation |
| MoC of wetted parts | SS 316/ PEEK or any other material suitable for nitric acid (up to 5 N) and organic solvents. The vendor must specify the MoC of the wetted parts. |
| Flow rate range | 0.1 mL/min to 50 mL/min. Up to $\pm 20\%$ variation in maximum flow rate is acceptable |
| Flow rate accuracy | $\pm 2\%$ FS or better |
| Flow rate repeatability | $\pm 0.5\%$ FS or better |
| Flow rate resolution | 0.1 mL/min or better |
| Pressure range | Up to 25 bar @ 1 mL/min volumetric flow rate of water |
| Inlet-outlet connections (end connection) | 1/16 th inch to 1/8 th inch |
| Display type | LCD/LED |
| Display parameters | Flow rate, operating pressure |
| Accessories for end connections | 1/16 th inch to 1/8 th inch |
| Quantity | 6 Nos. |

Note: Detailed product brochure should be submitted along with the quotations.