

1. Accuracy (Flow Reproduction.)

In case that water is used to measure flow reproductions, throughout the specified pump speed (1~120r.m.p. in HYSB), the flow reproductions are within $\pm 0.1\%$.

Depending on operating conditions, the flow reproduction can be as good as $\pm 0.1\%$ or less.

■ Data 1

□ Model : HYSB-40

□ Liquid : Water

NO.	Liquid Temp. (°C)	Discharge Pressure (MPa)	Pump Speed (rpm)	Weight (g)	Hours (minute)	Specific Gravity	Discharge Quantity (ml)	Theoretical Volume (ml)	Volumetric Efficiency (%)
1	14	0.5	45.00	58645.02	10	1.0000	58645.02	59376.1050	98.77
2	14	0.5	45.00	58643.16	10	1.0000	58643.16	59376.1050	98.77
3	14	0.5	45.00	58643.50	10	1.0000	58643.50	59376.1050	98.77
4	14	0.5	45.00	58647.47	10	1.0000	58647.47	59376.1050	98.77
5	14	0.5	45.00	58640.26	10	1.0000	58640.26	59376.1050	98.76
6	14	0.5	45.00	58647.73	10	1.0000	58647.73	59376.1050	98.77
7	14	0.5	45.00	58648.56	10	1.0000	58648.56	59376.1050	98.77
8	14	0.5	45.00	58638.33	10	1.0000	58638.33	59376.1050	98.76
9	14	0.5	45.00	58643.44	10	1.0000	58643.44	59376.1050	98.77
10	14	0.5	45.00	58642.57	10	1.0000	58642.57	59376.1050	98.76
11	14	0.5	45.00	58643.62	10	1.0000	58643.62	59376.1050	98.77
12	14	0.5	45.00	58642.17	10	1.0000	58642.17	59376.1050	98.76
13	14	0.5	45.00	58647.86	10	1.0000	58647.86	59376.1050	98.77
14	14	0.5	45.00	58638.41	10	1.0000	58638.41	59376.1050	98.76
15	14	0.5	45.00	58640.67	10	1.0000	58640.67	59376.1050	98.76

Max. weight(Data 7) – Min. weight(Data 8) = 10.23g(Deviation)

$10.23\text{g(Deviation)} \div 58,643.52\text{g(Average weight)} \times 100 = 0.017\%$