

Fire Pump Annual Test — Independent Analysis



Riverview Medical Plaza · FP-1, Pump Room B1 (model/serial/driver model/controller not specified) · Analysis date: 2026-10-27

PRE-SUBMISSION CHECK — CONTRACTOR

**FIX BEFORE
SUBMITTING**

items to resolve before submitting

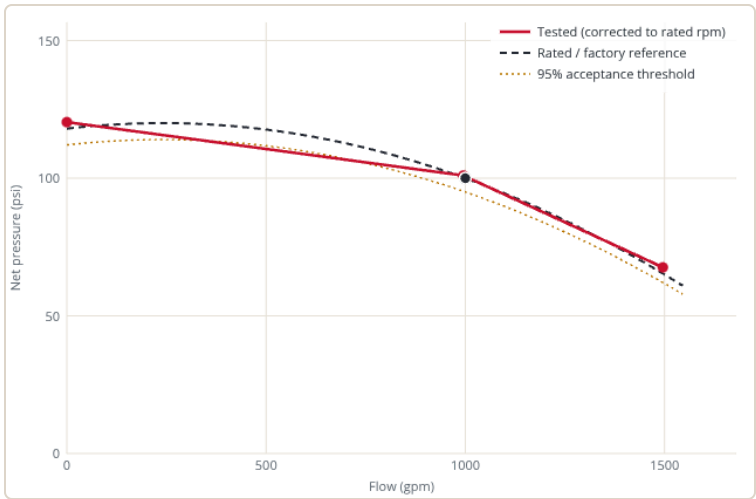
TEST DATE
2026-05-14

CONTRACTOR
Apex Fire Protection Inc.

PUMP
Horizontal split-case, Electric

RATING
1000 gpm @ 100 psi, 1770 rpm

CORRECTED PERFORMANCE VS. RATED



100.6%

of rated
pressure at
100% rated
flow ($\geq 95\%$)

104%

of required
pressure at
150% overload

120%

churn as % of
rated (limit
140%)

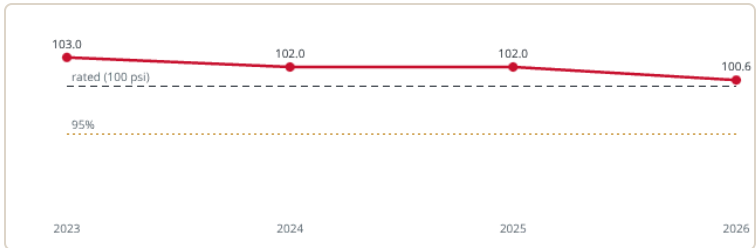
0

items to verify
before
submitting

TEST POINTS (CORRECTED TO RATED SPEED)

Flow	Suct.	Disch.	Net	RPM	Amps	Corr. flow	Corr. net	Pitots
0	62	184	122.0	1782	95	0	120.4	—
1000	55	157	102.0	1779	141	995	101.0	32.5, 30.9
1500	48	116	68.0	1775	166	1496	67.6	33.1, 31.4, 30.6

MULTI-YEAR TREND — NET PRESSURE AT RATED FLOW



FINDINGS (1 TO ADDRESS, 4 NOTES)

DOCUMENTATION No gauge/instrument calibration documentation. Annual calibration ($\pm 1\%$) is required for test gauges; uncalibrated gauges are a leading source of both phantom degradation and phantom passes. Attach current gauge calibration records before submitting.

NOTE Corrected churn 120.4 psi (120% of rated) — within the $\leq 140\%$ NFPA 20 envelope.

NOTE At 150% of rated flow, net pressure is 67.3 psi — 104% of the required 65%-of-rated value.

NOTE Net pressure at rated flow: 100.6 psi — 100.6% of rated. Meets the 95% acceptance criterion (NFPA 25 degraded-performance threshold: 95%).

NOTE Mild decline of 2.3% at rated flow since 2023 — within normal wear; continue monitoring annually.

BEFORE THIS LEAVES YOUR TRUCK

Before this report on the 1000 gpm pump at Riverview Medical Plaza goes to the owner or AHJ, clear the items below: 1 documentation item an AHJ would likely question. Catching these before submission is the difference between a clean record and a rejected report.