

SPECIFY YOUR PUMP EARLY

Avoid costly redesigns and improve OEM system performance.

When designing an OEM system, the fluid pump is often the heart of the application. Yet many engineers don't begin evaluating pumps until late in the design process, after critical design decisions have already been made.

Waiting too long to specify a pump can lead to:

- Design revisions
- Increased development costs
- Performance compromises
- Project delays

Selecting the right pump early allows your mechanical, electrical, and system designs to evolve around a proven solution instead of forcing expensive changes later.

8 Key Questions to Answer Before Selecting a Pump



How Much Space is Available?

Confirm the pump's footprint, orientation, and service clearance before finalizing your design.



Will the Pump Need to Self-Prime?

Determine whether your application requires self-priming or flooded suction.



What Flow and Pressure Are Required?

Account for tubing, valves, filters, and other system components that affect performance.



Are the Wetted Materials Compatible?

Ensure wetted materials are chemically compatible with the fluid.



What Fluid Are You Pumping?

Consider viscosity and operating temperatures throughout the application.



How Will the Pump Operate?

Continuous or intermittent duty cycles affect pump life.



What is the Environment Like?

Heat, humidity, airflow, and exposure all influence reliability.



What Power is Available?

Verify the pump matches your available AC/DC power requirements.



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Choosing the Right Pump Supplier

Off-the-Shelf Pumps

- Lower initial cost
- Faster availability
- Ideal when standard performance meets your needs

Custom OEM Pumps

- Optimized for your application
- Better system integration
- Improved long-term reliability
- Reduced maintenance
- Higher return on investment

While custom pumps may require more engineering upfront, they often reduce production issues and lifecycle costs.

Why GRI?

Since 1953, GRI has partnered with OEM engineers to develop fluid pump solutions for applications where standard products aren't enough.

Whether your project requires an off-the-shelf solution or a custom-engineered pump, our engineering team works with you early in the design process to help reduce development risk and improve long-term performance.

INTG9 of the
Integrity Series

Questions to Ask Your Supplier:

- ☐ Do they specialize in OEM applications?
- ☐ Can they customize pump designs?
- ☐ Do they perform engineering, manufacturing, & testing in-house?
- ☐ What quality standards do they follow?
- ☐ Can you speak directly with technical experts?
- ☐ Are they willing to visit your facility?
- ☐ Do they offer proven, original designs—not knock-offs?

Avoid inexpensive copycat pumps that may sacrifice consistency, quality, and long-term reliability.

Ready to Discuss Your Application?

Connect with a GRI Expert

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Contact Form

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