

High-Velocity Oil Flushing Services

Turnkey contamination removal for hydraulic, lubrication, turbine, and industrial oil systems.

 www.pfpusa.com



Precision Filtration Products
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Turnkey Flushing Services Before Startup, After Failure, and During Critical Maintenance

One provider for flushing equipment, temporary flow paths, on-site operation, contamination monitoring, and final project documentation.

Precision Filtration Products provides complete high-velocity oil flushing (HVOF) services for industrial hydraulic, lubrication, and oil circulation systems in many industries. Each project is configured around the system layout, fluid properties, required flow conditions, contamination level, and target cleanliness specifications.

PFP can support the project from initial planning through final cleanliness verification. Our extensive rental fleet and experienced field personnel allow us to mobilize temporary pumping, heating, filtration, and monitoring equipment for planned commissioning work, maintenance outages, equipment failures, and urgent contamination events.

Emergency & Urgent Applications

PFP can quickly mobilize a turnkey HVOF solution for applications that require immediate support & contamination control. For urgent needs, please contact us at **(888) 679-6645**.



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WHEN & WHY PERFORM HVOF?



Applications We Support

PFP offers turnkey flushing solutions for a wide variety of HVOF applications in various industries and environments.

We are capable of rapidly mobilizing high-velocity flushing equipment, auxiliary equipment, & on-site support when contamination threatens critical operations and systems.

To discuss your unique application, please contact our specialists at (888) 679-6645.

Pre-Commissioning



New hydraulic and lubrication systems can contain metal shavings, weld spatter, grinding debris, dirt, water, and other contaminants left behind during fabrication and installation. A high-velocity oil flush performed before startup helps remove this built-in contamination before it reaches pumps, bearings, valves, and other critical components. Pre-commissioning is one of the most important—and frequently overlooked—times to perform an HVOF.

Recommissioning



Equipment returning to service after an extended shutdown or storage period may contain settled contamination, moisture, or corrosion products. When the system is restarted, those contaminants can become mobilized and circulate through gears, bearings, pumps, and valves. Flushing before recommissioning helps restore system cleanliness before normal operation resumes.

Preventative Maintenance



A planned oil flush can be incorporated into a broader lubrication and reliability program to remove contamination that routine filtration may not fully address. The appropriate interval should be based on OEM guidance, oil-analysis results, system criticality, operating conditions, and contamination history.

Filter & Component Failure



When a filter, pump, bearing, gearbox, or other critical component fails, debris can be released and distributed throughout the lubrication system. Metal particles, damaged filter media, and other contaminants may collect in piping, reservoirs, coolers, and low-flow areas. After the failed component has been repaired or replaced, a high-velocity oil flush helps remove residual contamination and protects the replacement equipment from immediate recontamination.



How Does PFP Perform High-Velocity Oil Flushing?

Every HVOF performed by PFP is tailored specifically to the system being cleaned, the fluid in service, and the required cleanliness target. Our experts evaluate every factor before prescribing a solution.

From start to finish, PFP provides a complete turnkey flushing solution built around the unique demands of each application.

Our Step-by-Step Process

1

System Assessment & Planning

Review piping, fluid properties, restrictions, target cleanliness, and available connection points.

2

Temporary Flow-Path Configuration

Install hoses, manifolds, and jumpers to bypass sensitive components and direct flow through targeted circuits.

3

Equipment Setup & Inspection

Connect pumps, heaters, filter vessels, temporary reservoirs, and monitoring equipment.

4

High-Velocity Flushing

Establish turbulent flow through each circuit to mobilize contamination

5

Filtration & Cleanliness Monitoring

Capture debris, monitor differential pressure, and track particle counts throughout the project.

6

Final Verification & Reporting

Confirm the required cleanliness level and document project conditions and results.