

# OIL FLUSHING SKIDS

## EQUIPMENT DATA SHEET

Reliable Industrial Group has a range of specialized oil flushing skids designed to efficiently remove particulate contamination from lubrication and hydraulic oil systems. RIG's oil flushing skids combine pump, filter and heater into one compact unit. This allows for a small footprint and the ability to set up close to the system being worked on.

Cleaning oil systems by using an external flushing skid such as RIG's all-in-one units allows systems to achieve the required cleanliness specification in much shorter durations.



Figure 1. RIG HVOF Flushing Skid—OFS-600

### FLUSHING EQUIPMENT OVERVIEW

#### PUMP

The pump on the flushing skid is designed to deliver a higher flow rate than the permanent equipment pump of the system being cleaned. The higher velocity in the piping allows for shorter cleaning durations than if the system pump is used.

#### FILTERS

RIG oil flushing skids are equipped with high efficiency filters to capture particulate as small as 1 micron. The differential pressure across the filters is monitored during the flush as an indication of the quantity of particulate being removed from the system. At a predetermined differential pressure the filters are changed out.

#### HEATER

Heating the flushing oil will lower its viscosity and allow for a better cleaning effect during the flush. RIG oil flushing skids have temperature controllable fluid heaters to maintain the flushing oil at optimum temperature during the cleaning.

## APPLICATIONS

Foreign contaminants in hydraulic and lubrication oil can cause premature failure of the system. A high velocity oil flush utilizes turbulent flow to pick up and carry foreign material out of the lubrication system. A high velocity flush is required during pre-commissioning activities, major turnarounds and when a failure that distributes wear metals into the lubrication system occurs.

RIG's Oil Flushing Skids remove microscopic particulate to achieve oil cleanliness. Plant reliability services performed with these skids include:

- High Velocity Hot Oil Flushes (HVOF)
- Lube Oil Flushing
- MHC & EHC Turbine Oil Flushing
- Hydraulic Oil Flushing

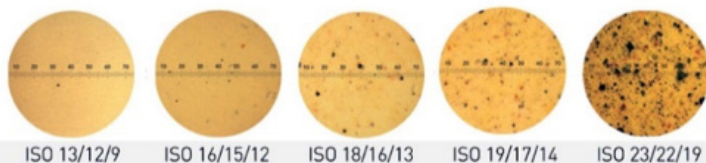


Figure 2. Example of ISO 4406 Contamination Levels



Figure 3. 700 GPM Oil Flushing Skid with Pump, Filter and Heater

## FLUSHING SKID TECHNICAL SPECIFICATIONS

All oil flushing skids have a variable flow pump, oil heater and filter combined into one compact unit.

Equipment Name	Flow Rate	Max Pressure	Weight	Height	Depth	Width	Power Requirements	Heater
OFS-100	100 gpm	50 psig	2400 lbs	84"	48"	68"	480V 60 Amps 3 Phase	36 kW
OFS-150	150 gpm	90 psig	2200 lbs	78"	48"	96"	480V 80 Amps 3 Phase	50 kW
OFS-200	200 gpm	100 psig	3255 lbs	65"	41"	85"	480V 77 Amps 3 Phase	40 kW
OFS-350	350 gpm	100 psig	3800 lbs	68"	48"	96"	480V 80 Amps 3 Phase	32 kW
OFS-600	600 gpm	100 psig	4200 lbs	68"	60"	96"	480V 140 Amps 3 Phase	60 kW
OFS-700	700 gpm	70 psig	4200 lbs	68"	60"	96"	480V 150 Amps 3 Phase	72 kW
OFS-1000	1000 gpm	100 psig	5200 lbs	83"	60"	100"	480V 175 Amps 3 Phase	40 kW

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RIG works across many industrial service disciplines. These include Hydrolazing, steam/air blows, chemical cleaning, varnish mitigation and oil flushing. Contact us for more information:

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