

## ENGINEERING

### Optional System Components



#### OVERVIEW

In addition to the main primary equipment, a number of optional system components can be included, depending on the customer specification and technical requirements:

##### Reservoir Level Monitoring

Visual indicators, electrical switches and/or transmitters to alert the operator of low or high oil level, and protect the pump and tank immersion heater(s) from operating when the oil level is too low.

##### Pressure Monitoring

Visual gauges, electrical switches and/or transmitters to alert the operator of low or high pressures in the oil system delivery circuit, and similar pressure differential instruments to monitor the pressure drop across the main supply filter.

##### Temperature Monitoring

Visual gauges, electrical switches and/or transmitters to monitor the reservoir and delivery line oil temperatures.

##### Flow Monitoring

Visual indicators, electric switches and/or transmitters to monitor the oil flow to the friction point(s), oil return to the reservoir and cooling water supply. To support this BDI have developed the DS405 iPM Lubrication Monitor; a highly configurable product that can be used on Oil Recirculation Systems and Total Loss Oil or Grease systems respectively for real-time monitoring of the flow rate of oil, typically through an oval gear flowmeter.

##### Control Valves

Pump relief valves to protect the pump against excessive back pressure, system pressure control valves to control the flow and pressure of the lubricant to the friction point(s), and temperature control valve to either modulate the water flow to the water/oil cooler or by-pass the cooler when fitted in the oil supply line when the oil does not require cooling.

##### Isolation Valves / Check Valves

To isolate the oil or water supply, and prevent the oil from returning to the reservoir.

##### Air Pressure Vessels

Used in large systems to ensure sufficient pressure exists in the system to provide lubrication to all application points during operation and run down of the parent machine in the event of a power cut.

##### Run Down Tanks

To provide lubrication to all application points during run down of the parent machine in the event of a power cut.

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