

Mechanical overflow prevention system

Improves worker safety by avoiding overfilling



Helps prevent hazards associated with reservoir overflowing

The Lincoln mechanical overflow prevention system was developed to improve worker safety by helping to prevent hazards associated with reservoir overflowing. It also minimizes environmental concerns caused by this type of spill.

The easy-to-install system is simple to use and reduces the manpower needed for reservoir filling, freeing personnel for other tasks. Because it operates mechanically, the system requires no electricity to function. In addition, the mechanical overflow prevention system is compatible with any pump using a Lincoln FlowMaster reservoir.

Featuring heavy-duty, all-steel construction with anti-corrosion plating, the system can withstand harsh environments. It is available with a high-pressure, 1/2-inch NPT inlet/outlet connection. The system can be operated with or without a Lincoln grease level sensor and filter and can be connected to a grease level gauge at the fill station or in the cab.

The mechanical overflow prevention system is suitable for mining, aggregate and industrial applications, as well as for use on off-road construction equipment.

Lincoln mechanical overflow prevention system advantages:

- Improves worker safety by preventing spills that can cause slip-and-falls, fire hazards or other concerns
- Reduces manpower needed for reservoir filling
- Helps avoid cleanups and potential fines
- Can be used with wide range of supply/filling pumps
- Compatible with any pump using a FlowMaster reservoir
- Mechanical operation; requires no electricity to function



The mechanically operated, easy-to-install overflow prevention system is compatible with any pump using a Lincoln FlowMaster reservoir.



Example of reservoir overflowing that can cause slip-and-falls, fire hazards or other concerns.

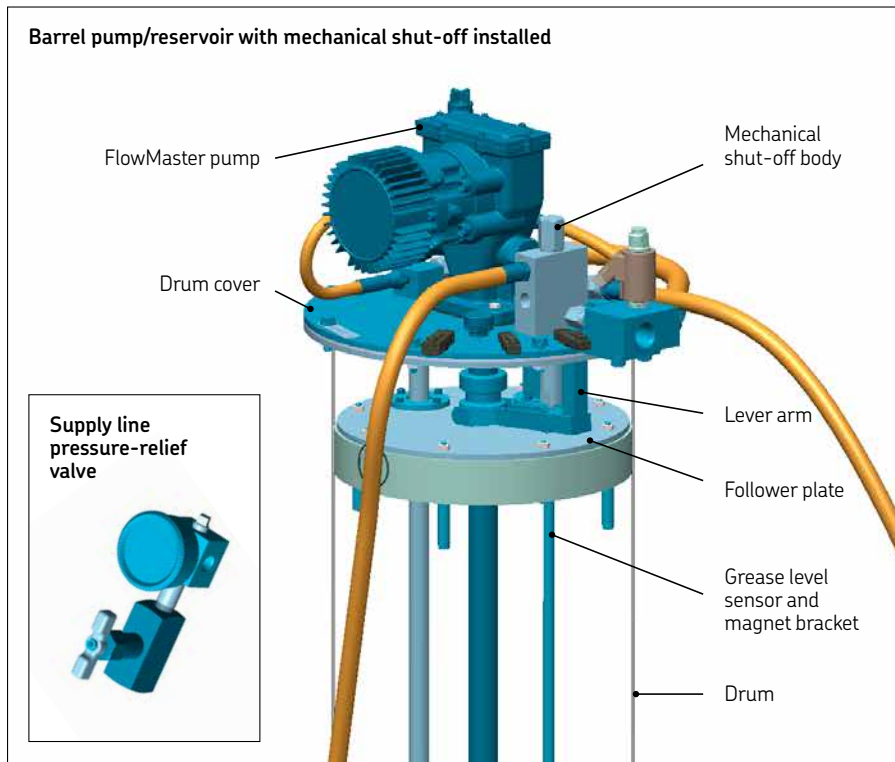
Technical data

Operating pressure	7 500 psi (517 bar) max.
Operating temperature range	-40 to +150 °F (-40 to +65,5 °C)
Inlet/outlet connection	High-pressure, 1/2 in NPT
Materials	Heavy-duty steel with anti-corrosion plating

Lincoln mechanical overflow prevention system features:

- Integrates into new FlowMaster II reservoirs or retrofits into existing FlowMaster I reservoirs
- Operates with or without Lincoln grease level sensor and filter; connects to a grease level gauge at fill station or in cab
- Optional components available for customized installation for FlowMaster I and FlowMaster II reservoirs
- Supply line relief can vent grease externally to a catch container

Mechanical shut-off example applications



FlowMaster pump identification

**FlowMaster II
crankcase**
Rectangular
mounting flange



**FlowMaster and
FlowMaster I
crankcase**
Square mounting
flange



**Bill of Materials
Electric FlowMaster I
with 90 lb (41 kg) drum**
no hose assembly or level sensor

Order no.	Description
279197	Pivot arm assembly
278668	Mechanical shut-off body 1/2 in NPT ports
279590	Supply line pressure-relief valve
279595	Drum cover
249355	Drum cover gasket
276496	Flat follower kit
279557	Vent valve to pump hose conversion kit
279613	Level sensor drum cover block-off plate kit
276892	Level sensor follower block-off plate kit

**Bill of Materials
Pneumatic bucket pump
with 120 lb (54 kg) drum**
with hose assembly; no level sensor

Order no.	Description
279197	Pivot arm assembly
278668	Mechanical shut-off body 1/2 in NPT ports
279590	Supply line pressure-relief valve
279594	Drum cover
271944	Drum cover gasket
279613	Level sensor drum cover block-off plate kit
276892	Level sensor follower block-off plate kit

**Bill of Materials
Hydraulic FlowMaster II
with 240 lb (109 kg) drum**
with hose assembly and level sensor

Order no.	Description
279197	Pivot arm assembly
278668	Mechanical shut-off body 1/2 in NPT ports
279590	Supply line pressure-relief valve
279602	Drum cover
277110	Drum cover gasket
277654	Level sensor, for use with 2 in (51 mm) foam follower plates

Available models

Order no. Description

Required parts

279197 Pivot arm assembly
278668 Mechanical shut-off body, 1/2 in NPT ports
279590 Supply line pressure-relief valve

Drum covers (select one)

279595 Use with FlowMaster, FlowMaster I and Flowmaster II electric pumps and pneumatic pumps, 60 and 90 lb (27 and 41 kg) reservoir
279596 Use with FlowMaster, FlowMaster I and Flowmaster II hydraulic pumps, 60 and 90 lb (27 and 41 kg) reservoir
279594 Use with FlowMaster, FlowMaster I and Flowmaster II hydraulic or electric pumps and pneumatic pumps, 120 lb (54 kg) reservoir
279602 Use with FlowMaster I and Flowmaster II hydraulic pumps, 240 lb (109 kg) reservoir

Drum covers – Caterpillar only (select one)

279552 Use with all FlowMaster electric pumps and pneumatic pumps, 60 and 90 lb (27 and 41 kg) reservoir
279553 Use with all FlowMaster hydraulic pumps, no level sensor, 60 and 90 lb (27 and 41 kg) reservoir
279593 Use with all FlowMaster hydraulic pumps, with level sensor, 60 and 90 lb (27 and 41 kg) reservoir
279601 Use with all FlowMaster electric and hydraulic pumps and pneumatic pumps, 120 lb (54 kg) reservoir
279554 Use with FlowMaster II hydraulic pumps, 400 lb (181 kg) reservoir

Drum cover gasket (select one)

249355 Use with FlowMaster, FlowMaster I and Flowmaster II electric or hydraulic pumps and pneumatic pumps, 60 and 90 lb (27 and 41 kg) reservoir
271944 Use with FlowMaster, FlowMaster I and Flowmaster II electric or hydraulic pumps and pneumatic pumps, 120 lb (54 kg) reservoir
277110 Use with FlowMaster I and Flowmaster II hydraulic pumps, 240 lb (109 kg) reservoir

Flat follower kits – required only for FlowMaster and FlowMaster I

276496 For 60 and 90 lb (27 and 41 kg) reservoir
278094 For 120 lb (54 kg) reservoir

Optional parts

279608 Supply line pressure-relief valve, 1/4 turn, spring loaded. Use in place of 279590.
274524 Level sensor – use with flat follower plates on FlowMaster and FlowMaster I electric and hydraulic pumps and pneumatic pumps, 60 lb (27 kg) reservoir
278092 Level sensor – use with flat follower plates on FlowMaster and FlowMaster I pumps and pneumatic pumps, 90 and 120 lb (41 and 54 kg) reservoir
277654 Level sensor – use with 2 in foam follower plates on FlowMaster I hydraulic pumps, 240 lb (109 kg) reservoir; FlowMaster II pumps, 90, 120 and 240 lb (41, 54 and 109 kg) reservoir; pneumatic pumps, 90 and 120 lb (41 and 54 kg) reservoir
277659 Level sensor – use with 2 in (51 mm) foam follower plates on FlowMaster II pumps and pneumatic pumps, 60 lb (27 kg) reservoir
279614 Level sensor magnet bracket kit
279558 High pressure quick connection – coupler, female, 3/8 NPT connection
279559 High pressure quick connection – nipple, female, 3/8 NPT connection
279557 Vent valve to pump hose conversion kit¹⁾
279613 Level sensor drum cover block-off plate kit²⁾
276892 Level sensor follower block-off plate kit²⁾

¹⁾ Required if hose assembly is not already present.

²⁾ Required if no level sensor is used.