

Mechanical overflow prevention system

Improves worker safety by avoiding overfilling

Available as factory fit
or retrofit option



LINCOLN

Helps prevent hazards associated with reservoir overfilling

The Lincoln mechanical overflow prevention system was developed to improve worker safety by helping to prevent hazards associated with reservoir overfilling. 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 overfilling that can cause slip-and-falls, fire hazards or other concerns.

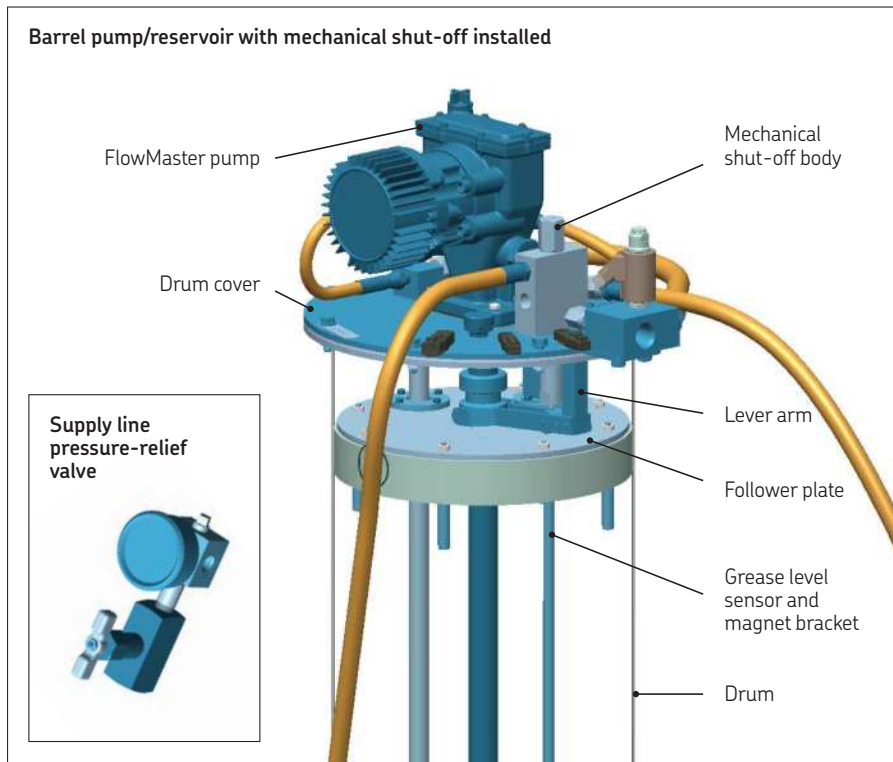
Technical data

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:

- For easier ordering factory fit FlowMaster models are available
- 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



Factory fit ordering guide

Order numbers		Description	Power	Reservoir size		Level sensor
FlowMaster w/o MSO	FlowMaster w/ MSO*			lb	kg	
85728	85728MSO	Electric FlowMaster pump with mechanical shut-off device and reservoir	24 V DC	60	27	Mechanical
85712	85712MSO		24 V DC	60	27	N/A
85763	85763MSO		24 V DC	60	27	Magnetic
85729	85729MSO		24 V DC	90	41	Mechanical
85762	85762MSO		24 V DC	90	41	Magnetic
85730	85730MSO		24 V DC	120	54	Mechanical
85878	85878MSO		24 V DC	120	54	Mechanical, magnetic
85722	85722MSO	Hydraulic FlowMaster pump with mechanical shut-off device and reservoir	Hydraulic	60	27	Mechanical
85725	85725MSO		Hydraulic	90	41	Mechanical
85727	85727MSO		Hydraulic	120	54	Mechanical
84050	84050MSO	Pneumatic Barrel Pump with mechanical shut-off device and reservoir	Pneumatic	60	27	N/A
85460	85460MSO		Pneumatic	90	41	Mechanical

* Other configurations available upon request, supply line pressure-relief valve not included (→page 4)

Retrofit parts list

Required parts				
Order numbers	Description	Use with	Reservoir size	
			lb	kg
279197	Pivot arm assembly			
278668	Mechanical shut-off body, 1/2 in NPT ports			
279590	Supply line pressure-relief valve			
279595	Drum cover ¹⁾	FlowMaster, FlowMaster I, Flowmaster II electric pumps	60 / 90	27 / 41
279596	Drum cover ¹⁾	Pneumatic barrel pumps, FlowMaster, FlowMaster I, Flowmaster II hydraulic pumps	60 / 90	27 / 41
279594	Drum cover ¹⁾	FlowMaster, FlowMaster I, Flowmaster II hydraulic or electric pumps	120	54
		Pneumatic barrel pumps		
249355	Drum cover gasket ²⁾	FlowMaster, FlowMaster I, Flowmaster II electric or hydraulic pumps	60 / 90	27 / 41
271944	Drum cover gasket ²⁾	Pneumatic barrel pumps		
		FlowMaster, FlowMaster I, Flowmaster II electric or hydraulic pumps	120	54
		Pneumatic barrel pump		
276496	Flat follower kits	FlowMaster, FlowMaster I electric or hydraulic pumps	60 / 90	27 / 41
278094	Flat follower kits	FlowMaster, FlowMaster I electric or hydraulic pumps	120	54

¹⁾ Select one drum cover
²⁾ Select one drum cover gasket

Optional parts				
Order numbers	Description	Use with	Reservoir size	
			lb	kg
279608	Supply line pressure-relief valve, 1/4 turn, spring loaded.	Use in place of 279590.		
278092	Magnetic level sensor	Flat follower plates on FlowMaster and FlowMaster I pumps and	90 / 120	41 / 54
277654	Magnetic level sensor	Pneumatic barrel pumps		
277659	Magnetic level sensor	2 in (51 mm) foam follower plates on FlowMaster II pumps and	90 / 120	41 / 54
279614	Level sensor magnet bracket kit	Pneumatic barrel pumps		
		2 in (51 mm) foam follower plates on FlowMaster II pumps and	60	27
		pneumatic barrel pumps		
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 kit ¹⁾			
279613	Level sensor drum cover block-off plate kit ²⁾			
276892	Level sensor follower block-off plate kit ²⁾			

¹⁾ Required if hose assembly is not already present.
²⁾ Required if no level sensor is used in retrofit.