



Low-Level Switches

Low-level switches for modular design reservoirs.

Model	Use with Reservoir #	Switch Type	Electrical Rating
84235	87417, 87418, 87419	SPDT	7 Amps 125 / 250 VAC
84250	87400	SPDT	
84252	87414	SPDT	
87852	87402, 87403, 87406, 87416	SPDT	15 Amps 125 / 250 VAC
83371		SPDT	15 Amps; 125, 250, 480 VAC .5 Amp 125 VDC .25 Amp 250 VDC



Low-Level Switch Assembly Kits for pneumatic and electric reciprocating pumps with self-contained reservoirs.

Model	Use with Pump Model	Switch Type	Electrical Rating
83671	87240, 87228	SPDT	15 Amps; 125, 250, 480 VAC .5 Amp 125 VDC .25 Amp 250 VDC
83696	87239		



High-Pressure Switch

High-pressure switch signals blockage and returns pump output to reservoir.

Model	Pressure Rating - psig / bar	Switch Type	Electrical Rating
87851	1450 / 99	SPDT	15 Amps, 125/250 VAC



Model 87212

Model:	87212
Type:	Hydraulic
Ratio:	5:1
Hydraulic Pressure – Min.:	200 psi / 14 bar
Hydraulic Pressure – Max.:	1000 psi / 68 bar
Lubricant Output/Cycle – Min.:	.010 cu. in. / .164 cc
Lubricant Output/Cycle – Max.:	.060 cu. in. / .983 cc
Cylinder Type:	Double acting
Directional Valve Requirement:	4-Way

Model 87214

Model:	87214
Type:	Air
Ratio:	18:1
Air Pressure – Min.:	60 psi / 4 bar
Air Pressure – Max.:	200 psi / 14 bar
Lubricant Output/Cycle – Min.:	.010 cu. in. / .164 cc
Lubricant Output/Cycle – Max.:	.060 cu. in. / .983 cc
Cylinder Type:	Single acting
Directional Valve Requirement:	3-Way

Note:
Pumps include Buna-N O-rings.



Modular LP-Style Reservoirs

Mount directly to LP pumps. Includes 3000 psig (200 bar) gauge and 900 psig (62 bar) atmospheric indicator. Transparent, polycarbonate construction.

Model	Lubricant Type	Capacity				Air Hydraulic	Lube Outlet	Dimensions - in. / mm			
		lb/pint	kg.	liter	cu. in.			cc	Height	Width	Depth
87402	Grease	3 lb	1.36	—	90	1475	1/8"	1/8"	11.6 / 295	6.78	7.06
87403		5 lb	2.27	—	150	2450			14.6 / 371		
87405	Oil	5 pint	—	2.36	144	2365	(F)	(F)	10.3 / 262		



Model 87240 Air-Operated Reciprocating Pump

Model:	87240
Lubricant Type:	Grease
Lubricant/Air Ratio:	40:1
Output/Min. @ 100 psig Air (cu. in.):	12
Output/Min. @ 100 psig Air (cc):	197
Reservoir Capacity* (lbs.):	12
Reservoir Capacity* (kg):	5.45
Reservoir Capacity* (cu. in.):	360
Reservoir Capacity* (cc):	5900
Air Inlet:	1/8" NPTF(F)
Lube Outlet:	1/4" NPTF(F)
Dimensions (HxWxD) – in:	20.5" x 9" x 16.25"
Dimensions (HxWxD) – mm:	521.3 x 229 x 413 mm

* Transparent Acrylic Reservoir

Model 87239 Air-Operated Reciprocating Pump

Model:	87239
Lubricant Type:	Oil
Lubricant/Air Ratio:	40:1
Output/Min. @ 100 psig Air (cu. in.):	12
Output/Min. @ 100 psig Air (cc):	197
Reservoir Capacity* (pints):	15
Reservoir Capacity* (liter):	7.1
Reservoir Capacity* (cu. in.):	433
Reservoir Capacity* (cc):	7100
Air Inlet:	1/8" NPTF(F)
Lube Outlet:	1/4" NPTF(F)
Dimensions (HxWxD) – in:	20.5" x 9" x 16.25"
Dimensions (HxWxD) – mm:	521.3 x 229 x 413mm

* Transparent Acrylic Reservoir

Note:

Both models require a 3-way air valve.

Atmospheric Indicator Pressure: Model 87240 – 2650 psi/183 bar
Model 87239 – 1450 psi/100 bar

Model 87228 Electric-Operated Reciprocating Pump



Model:	87228
Lubricant Type:	Grease
Electrical Requirements:	220/440, 60 Hz 3 ph
Output/Minute (cu. in.):	18
Output/Minute (cc):	295
Reservoir Capacity* (lbs.):	12
Reservoir Capacity* (kg):	5.45
Reservoir Capacity* (cu. in.):	360
Reservoir Capacity* (cc):	5900
Lube Outlet:	1/4" NPTF(F)
Dimensions (HxWxD) – in:	25.38" x 9.94" x 18.06"
Dimensions (HxWxD) – mm:	645 x 253 x 459 mm
Relief Valve (psig):	3700 psig
Relief Valve (bar):	255 bar

* Transparent Acrylic Reservoir



MCLP Pumps

For natural gas engine/compressor lubrication systems.

Model 130201BCC

MCLP Pump complete with pump heads.

Model:	130201BCC
Type Drive:	Rotary
Shaft Description:	Left-hand end, long shaft
Gear Ratio:	2:1
Decimal Gear Ratio:	.5
Cam:	Single lobe
Pump Heads: (Model 130335)	10 mm (2 each)
Performance Indicator:	7300 psig / 500 bar



Model 130200GEE

Model:	130200GEE
Type Drive:	Rotary
Shaft Description:	Left-hand end
Gear Ratio:	8:1
Decimal Gear Ratio:	.125
Cam:	Single lobe
Pump Heads (Max of 2):	Order separately
Performance Indicator:	Dependent on pump head

Model 130200KEE

Model:	130200KEE
Type Drive:	Rotary
Shaft Description:	Left-hand end
Gear Ratio:	21.5:1
Decimal Gear Ratio:	.047
Cam:	Single lobe
Pump Heads (Max of 2):	Order separately
Performance Indicator:	Dependent on pump head

Model 130200DEE

Model	130200DEE
Type Drive:	Rotary
Shaft Description:	Left-hand end
Gear Ratio:	4:1
Decimal Gear Ratio:	.25
Cam:	Single lobe
Pump Heads (Max of 2):	Order separately
Performance Indicator:	Dependent on pump head

Model 130300GEE

Model:	130300GEE
Type Drive:	Rotary
Shaft Description:	Right-hand end
Gear Ratio:	8:1
Decimal Gear Ratio:	.125
Cam:	Single lobe
Pump Heads (Max of 2):	Order separately
Performance Indicator:	Dependent on pump head



Model 130300KEE

Model:	130300KEE
Type Drive:	Rotary
Shaft Description:	Right-hand end
Gear Ratio:	21.5:1
Decimal Gear Ratio:	.047
Cam:	Single lobe
Pump Heads (Max of 2):	Order separately
Performance Indicator:	Dependent on pump head

Notes:

1. Recommended camshaft speed (RPM) for all pumps is: 12 to 75 rpm.
 2. MCLP output (per pump) = Input speed x decimal ratio x pump output factor* = pints per day
- * See MCLP pump head chart for pump output factor



MCLP Pump Heads

Model	Piston Diameter	Max. Working Pressure psig/bar	Pump Output Factor		Max. Inlet Pressure psig/bar	Pump Inlet	Pump Outlet	Performance Indicator psi/bar
			Min 1 Turn	Max 5 Turns				
130332	7mm	8000/544	.10	.731	50	3/8"	1/4"	5500/374
130335	10mm	3500/238	.213	1.491	3.5	NPTF(F)	NPTF(F)	3250/221

Flow Restrictor

Flow restrictor for LP Pumps with high air or hydraulic supply pressure.



Model	For Pressure Exceeding - psig / bar		Connections
	Pneumatic	Hydraulic	
15104	100 / 7	500 / 34	1/8" NPTF(F) x 1/8" NPTF(M)

MCLP Pump Inlet Filters



Model	Pump Heads Served	Filter Size	Inlet	Max. Inlet Pressure psig / bar
130067	2	10 Micron	1" NPTF(F)	50 / 3.5

In-Line Lubricant Filters

Remove solid contaminants before delivering lubricants to the supply line.



Part No.	Element Size micron	Maximum Pressure	Connections in.	Hex Body Size - in.
* 84239	10	6000 psig / 414 bar	1/4 NPTF (F)	1 1/4

* In-line filter with fluoroelastomer seal.

Filler Pump

Manual pump for system purging and troubleshooting.



Model	Max. Press. Gauge Reading psig / bar	Reservoir Capacity	Outlet Adapters
130117	3000 / 207	16 oz.	5/16" - 24 UNF(M), 7/16" - 20 UNF(M), 1/8" NPTF(M), 1/4" NPTF(M)

No-Flow Valves

MCL pump no-flow valves shut down engine or signal fault if oil flow is interrupted.



Model	Signal Type	Max. Operating Pressure psig / bar	Oil Viscosity Range	Inlet/Outlet		Air Supply	Electrical Rating	3rd Party Approvals
				Air	Oil			
87862	Pneum.	6000 / 414	60 SSU- 3000 SSU	1/8" NPTF(F)	1/4" NPTF(F)	150 psi max	—	—
87601	Electric					—	1 amp, 115 VAC .5 amp, 32 VDC	CSA Class I, Group D Class II, Group E, F & G

Notes:

1. Minimum flow rate .060 cu. in./minute with time delay setting of 90 seconds.
2. Includes fluoroelastomer oil seals.