

Centro-Matic® Automated Lubrication Systems

Air-Operated (Single Stroke) Grease Pumps



Centro-Matic® Integrated Pumps

All models are air-operated, positive displacement pumps delivering a maximum volume by means of a single stroke of the pump (volumes listed below). Solenoid air valves and adjustable solid-state time controls are integrated into the pump body. All pumps are designed to deliver grease to single-line injectors and include a special high-volume refill fitting. Acrylic reservoirs are available in several sizes. Integrated controls feature LED indicators for “Power On”, “Pump On” and “Alarm,” along with a membrane-type, “Manual Lube” switch.



Model 85434

Model 85434 Integrated Grease Pump

Ratio:	31:1	
Power:	120 VAC	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	240 bar
Maximum Output:	1.4 in ³	18.7 cm ³
Reservoir Capacity:	4.5 lbs.	1.8 kg
Dimensions (LxWxH):	24.70" x 6.52"x 18.11"	627 x 166 x 460 mm

Model 85435 Integrated Grease Pump

Same as Model 85434 except 240 VAC.

Model 85436 Integrated Grease Pump

Same as Model 85434 except with a Ratio of 25:1 and Maximum Output of 2.15 in³ (35.2 cm³).



Model 85442

Model 85442 Integrated Grease Pump

Ratio:	20:1	
Power:	120 VAC	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	240 bar
Maximum Output:	0.45 in ³	7.4 cm ³
Reservoir Capacity:	1 lb.	0.450 kg
Dimensions (LxWxH):	5.25" x 7.24"x 12.02"	133 x 184 x 305 mm

Model 85444 Integrated Grease Pump

Ratio:	20:1	
Power:	120 VAC	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	240 bar
Maximum Output:	0.45 in ³	7.4 cm ³
Reservoir Capacity:	4 lbs.	1.8 kg
Dimensions (LxWxH):	5.25" x 7.24"x 20.75"	133 x 184 x 527 mm

Model 85445 Integrated Grease Pump

Same as Model 85444 except 240 VAC.



Timer and Controller Specifications

On Time	Off Time	Alarm Contacts	Operating Temperature
10 sec or 30 sec	1/2 to 30 min or 30 min to 30 hrs	8 amps @ 250 VAC	-10°F to 150°F -23°C to 65°C

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Air-Operated (Single Stroke) Grease Pumps



Model 82886



Model 83668



Model 82653

Model 82886 Pump

Pump discharges lubricant on air-powered forward stroke and vents on spring-powered return stroke through built-in check/vent valve. Reservoir is translucent with spring-loaded follower. Includes filler fitting for refilling reservoir with Model 81834 or other manual pump equipped with Model 645006 coupler.

Model 83668

Same as Model 82886 except includes larger reservoir.

Model 82653 Bare Pump

Pump uses air for forward and return stroke but dispenses lubricant on forward stroke only. Return stroke vents lubricant pressure through included check/vent valve. Translucent reservoir has spring-loaded follower. Refill through included filler fitting using Model 81834 or other manual pump equipped with Model 645006 coupler.

Model 83834 High Volume Bare Pump

Same as Model 82653 except 25:1 ratio, 2.15 cu. in (35.2 cc) maximum output.

Model 82655 Pump with Controls

Same as Model 82653 except includes Model 84501 solid state timer and 350244 four way electric solenoid valve.

Model 83800 High Volume Pump with Controls

Same as Model 83834 except includes Model 84501 solid state timer and 350244 four way electric solenoid valve.

Model	Lubricant/ Air Ratio	Max. Output	Reservoir Capacity	Reservoir Temp. Range	Air Inlet	Lube Outlet	Lubricant Oper. Pressure		Dimensions HxWxL	Air Valve Required
							Min.	Max.		
82886	20:1	.45 in³ 7.4 cm³	1 lb/.45 kg 30 in³/492 cm³	0°F to 150°F -18°C to 65°C	¼" NPTF(F) (metric ¼" BSPP)	¼" NPTF(F) (metric ¼" BSPP)	1200 psig 82 bar	3500 psig 240 bar	10⅝"x5¼"x6 263x133x152mm	3-way
83668		18½"x5¼"x6 470x133x152mm								
82653	3:1	1.4 in³ 22.9 cm³	4 lb/1.81 kg 120 in³ / 1967 cm³						18½"x5¾"x21 470x146x533mm	4-way
82655										
83834	25:1	2.15 in³ 35.2 cm³								
85393										
83800										

Note: Air consumption @ 100 psi is .15 CFM per stroke.

Timer Specifications

Cycle Time		On Time		Power Requirements	Ambient Operating Temp. Range
Min	Max	Min	Max		
20 Sec.	24 Hr.	10 Sec.	1 Min. 24 Sec.	120 VAC, 60 hz 110 VAC, 50 hz	-10°F to +150°F -23°C +65°C

Note:

Refer to System Controls section for detailed timer and solenoid operated air valve specifications.

Centro-Matic® Automated Lubrication Systems

Air-Operated (Reciprocating) Grease Pumps



Model 83167

Includes transparent reservoir, spring-loaded follower, vent valve assembly and filler fitting for refilling of reservoir with 81834 filler pump or other manual pump equipped with Model 645006 coupler.

Model:	83167	
Lubricant/Air Ratio:	40:1	
Output/Min @ 100 PSIG Air:	12 cu. in.	197 cc
Reservoir Capacity:	12 lb. / 5.44 kg	360 cu. in. / 5900 cc
Air Inlet:	1/8" NPTF (F)	
Lube Outlet:	3/4" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Dimensions (HxWxL):	22 1/2" x 9" x 16 1/4"	572 x 229 x 413 mm
Filling Method:	81834 Filler Pump	
Reservoir:	Translucent Acrylic	

Notes: 1. Pump requires 3-way air valve. 2. Air consumption @ 100 psi is .15 CFM per cycle



Model 83599

Same as Model 83167 except includes base mounting kit and metal reservoir with indicator rod for visual check of grease level. Reservoir includes spring-loaded follower.

Model:	83599	
Lubricant/Air Ratio:	40:1	
Output/Min @ 100 PSIG Air:	12 cu. in.	197 cc
Reservoir Capacity:	12 lb. / 5.44 kg	360 cu. in. / 5900 cc
Air Inlet:	1/4" NPTF (F)	
Lube Outlet:	3/4" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Dimensions (HxWxL):	24 3/8" x 9" x 18 3/16"	619 x 229 x 462 mm
Filling Method:	81834 Filler Pump	
Reservoir:	Aluminum	

Notes: 1. Pump requires 3-way air valve. 2. Air consumption @ 100 psi is .15 CFM per cycle

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Air-Operated (Reciprocating) Grease Pumps



Model 1823

Includes 2½" air motor driven pump, vent valve assembly, pump elevator, connecting lubricant and air hoses, and control panel.

Model:	1823	
Lubricant/Air Ratio:	50:1	
Output/Min @ 100 PSIG Air:	30 cu. in.	492 cc
Drum Size:	U.S. standard 120 lb. refinery drum	
Air Inlet:	¾" NPTF (F)	
Lube Outlet:	¾" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Components	Pump & Vent Assembly 282288	
Included:	Controller	85209
	Pump Elevator	83447

Controller Electrical Requirements: 120V, 60 Hz., 110 V, 50hz

Notes: 1. Air consumption @ 100 psi is .42 CFM per cycle.

2. Model 83371 follower plate is available as an optional accessory.



Model 282288

Same specifications as Model 1823 but does not include elevator or controller.

Model 1827 Heavy-Duty Unit

Consists of PowerMaster pump, vent valve assembly with air and lubricant connecting hoses, drum cover and control panel.

Model:	1827	
Lubricant/Air Ratio:	75:1	
Output/Min @ 100 PSIG Air:	161 cu. in.	2638 cc
Drum Size:	U.S. standard 400 lb. refinery drum	
Air Inlet:	¾" NPTF (F)	
Lube Outlet:	¾" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Components	Basic Pump 2004	
Included:	Vent Valve	85215
	Controller	85209
	Drum Cover	81675



Model 1828

Same as Model 1827 except includes Model 2008 pump, 85218 vent valve and Model 84034 drum cover sized for U.S. standard 120 lb. refinery drum. Includes 85209 controller.

Model 1829

Same as Model 1827 except includes Model 2010 pump (50:1 ratio, 231 cu. in./min. (3785 cc) delivery at 100 psig air). Fits U.S. standard 400 lb. refinery drum. Includes 85209 controller and 85215 vent valve.

