

Centro-Matic® Automated Lubrication Systems

Air-Operated (Single Stroke) Oil 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 fluid lubricants to single-line injectors and are filled via a spring-loaded filler cap and internal filter. Acrylic reservoirs are available in several sizes. Pump Models 85432 and 85433 do not include a reservoir, and are designed for remote or bulk-fill oil applications (80 psi/5.4 bar maximum head pressure). Integrated controls feature LED indicators for “Power On”, “Pump On” and “Alarm,” along with a membrane-type, “Manual Lube” switch.



Model 85430



Model 85432



Model 85438



Model 85440

Model 85430 Integrated Fluid Pump

| | | |
|---|-------------------------|----------------------|
| Ratio: | 20:1 | |
| Power: | 120 VAC | |
| Typical System Operating Pressure: | Min. 750 psig | 52 bar |
| | Max. 1000 psig | 69 bar |
| Maximum Output: | 2.4 in ³ | 39.3 cm ³ |
| Reservoir Capacity: | 4.5 pints | 2.1 liters |
| Dimensions (LxWxH): | 24.70" x 6.52" x 18.11" | 627 x 166 x 460 mm |

Model 85431 Integrated Fluid Pump

Same as Model 85430 except 240 VAC.

Model 85432 Integrated Fluid Pump

Same as Model 85430 except without reservoir.

Model 85433 Integrated Fluid Pump

Same as Model 85432 except 240 VAC.

Model 85438 Integrated Fluid Pump

| | | |
|---|------------------------|---------------------|
| Ratio: | 20:1 | |
| Power: | 120 VAC | |
| Typical System Operating Pressure: | Min. 750 psig | 52 bar |
| | Max. 1000 psig | 69 bar |
| Maximum Output: | 0.45 in ³ | 7.4 cm ³ |
| Reservoir Capacity: | 1.25 pints | 0.6 liters |
| Dimensions (LxWxH): | 5.25" x 7.24" x 12.02" | 133 x 184 x 305 mm |

Model 85440 Integrated Fluid Pump

| | | |
|---|------------------------|---------------------|
| Ratio: | 20:1 | |
| Power: | 120 VAC | |
| Typical System Operating Pressure: | Min. 750 psig | 52 bar |
| | Max. 1000 psig | 69 bar |
| Maximum Output: | 0.45 in ³ | 7.4 cm ³ |
| Reservoir Capacity: | 4.25 pints | 2.0 liters |
| Dimensions (LxWxH): | 5.25" x 7.24" x 20.75" | 133 x 184 x 527 mm |

Model 85441 Integrated Fluid Pump

Same as Model 85440 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 |

Centro-Matic® Automated Lubrication Systems

Air-Operated (Single-Stroke) Oil Pumps



Model 82885



Model 83667



Model 82676

Model 82885

Pump discharges lubricant on air-powered forward stroke and vents on spring-powered return stroke through built-in check/vent valve. Translucent reservoir is refilled through filler cap with strainer.

Model 83667

Same as Model 82885 except includes larger reservoir.

Model 82570

High-volume pump discharges lubricant on air-powered forward stroke and vents through included check/vent valve on air-powered return stroke. Translucent reservoir is refilled through filler cap with strainer.

Model 82573

Air-operated, single stroke oil pump and timer assembly. Same as Model 82570 except includes Model 84501 solid state timer and 350244 four-way electrical solenoid valve. Power requirements: 120 VAC, 60 Hz; 110 VAC, 50 Hz.

Model 82676

Same as Model 82570 except for use with external oil supply through ½" NPT(F) oil inlet (maximum head pressure 80 psi (5.5 bar)).

| Model | Metric Equiv | Lubricant/ Air Ratio | Max Output | Reservoir Capacity | Air Inlet | Lube Outlet | Lubricant Oper. Press. | | Dimensions HxWxL | Air Valve Required | | |
|-------|---|-------------------------|--|--|---------------|---------------|--------------------------|---------------------------|----------------------------------|--------------------|-----------------------------------|-------|
| | | | | | | | Min | Max | | | | |
| 82885 | 85391 | 20:1 | .45 in ³ 7.4 cm ³ | 1¼ pint / 6 liter 36 in ³ / 600cm ³ | ¼" NPTF(F) | ¼" NPTF(F) | 750 psig 52 bar | 1000 psig 69 bar | 10" x 5¼" x 6" 263x133x152mm | 3-way | | |
| 83667 | 4½ pint / 2 liter 123 in ³ / 2000 cm ³ | | (metric ¼" BSPP) | (metric ¼" BSPP) | | | | | 18½" x 5½" x 6" 470x140x152mm | | | |
| 82570 | 2.4 in ³ 39.3 cm ³ | | Remote | | | | | | | | 17" x 5¾" x 18¼" 451x146x464mm | 4-way |
| 82573 | | | | | | | | | | | 18½" x 5¾" x 21" 470x146x533mm | |
| 82676 | | | | | | | | | | | | |

** Air consumption @ 100 psi is .15 CFM per stroke.
Check compatibility when using synthetic oils.

Timer Specifications for Model 82573 Only

| Cycle Time | | On Time | |
|------------|--------|---------|----------------|
| Min | Max | Min | Max |
| 20 Sec. | 24 Hr. | 10 Sec. | 1 Min. 24 Sec. |

Note:

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



Model 283167

Includes 2½" air motor driven pump, vent valve assembly, translucent reservoir with filler cap and strainer and 1200 psi (82 bar) safety unloader.

| | | |
|----------------------------------|------------------|--------------------|
| Model: | 283167 | |
| Lubricant/Air Ratio: | 40:1 | |
| Output/Min @ 100 PSI Air: | 12 cu. in. | 197 cc |
| Reservoir Capacity: | 15 pint | 7.1 liter |
| | 433 cu. in. | 7100 cc |
| Air Inlet: | ½" NPTF (F) | |
| Lube Outlet: | ¾" NPTF (F) | |
| Typical System | Min. 750 psig | 52 bar |
| Operating Pressure: | Max. 1000 psig | 69 bar |
| Dimensions (HxWxL): | 23¼" x 9" x 16¼" | 591 x 229 x 413 mm |
| Air Valve Required: | 3-Way** | |

** Air consumption @ 100 psi is .15 CFM per stroke.

Note: Check compatibility when using synthetic oils.



Model 1826

Consists of Model 2002 PowerMaster pump, Model 85217 vent valve assembly, Model 81675 drum cover, Model 85209 controller, air and lubricant connecting hoses and 1200 psi (82 bar) safety unloader.

| | | |
|--------------------------------|--|---------|
| Model: | 1826 | |
| Lubricant/Air Ratio: | 24:1 | |
| Output @ 75 Cycles/Min: | 462 cu. in. | 7571 cc |
| Drum Size: | U.S. standard 55-gal. refinery drum (removable head) | |
| Air Inlet: | ¾" NPTF (F) | |
| Lube Outlet: | ¾" NPTF (F) | |
| Typical System | Min. 750 psig | 52 bar |
| Operating Pressure: | Max. 1000 psig | 69 bar |
| Controller Electrical | | |
| Requirements: | 120 V 60 Hz, 110V 50 Hz | |

Notes:

1. See System Controls section for detailed controller specifications.
2. See Industrial Pumping catalog for basic pump specification, including air consumption.