

REPLACEMENT & AFTERMARKET

120 VOLT AC ELECTRIC CONVEYOR OILERS



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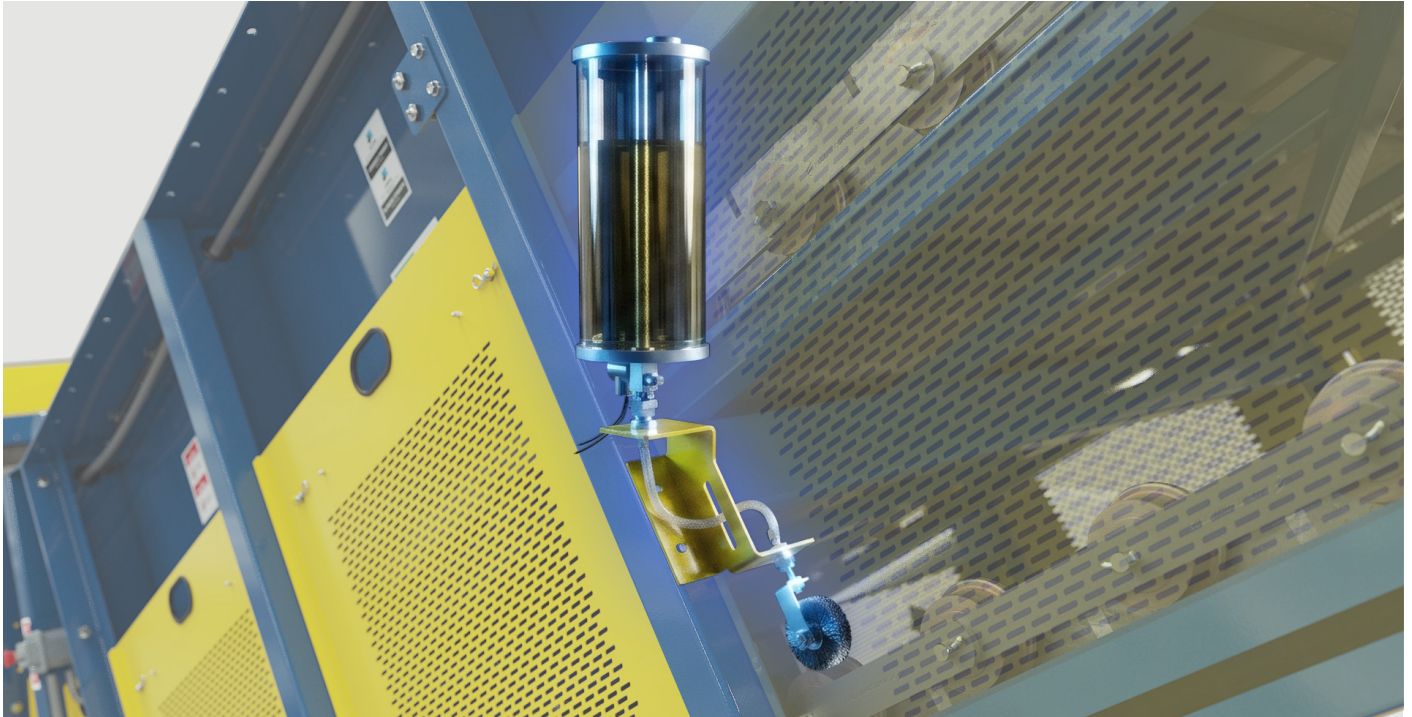
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120 VOLT AC ELECTRIC CONVEYOR OILERS



120 Volt Ac Electric Conveyor Oilers

Roller chain conveyors accumulate abrasive fines, dust, and moisture inside pin and bushing clearances with every revolution, and lubrication that depends on maintenance schedules rarely matches actual chain runtime. Chains oiled too late elongate, run loud, and grind against sprocket teeth until articulation points bind. Every missed lubrication interval compounds into premature chain and sprocket replacement, unplanned line stops, and lost throughput.

120 volt AC electric oilers wire the solenoid coil in parallel with the motor contactor coil, so oil flows only while the conveyor runs and stops the moment the chain does. A normally closed solenoid valve meters oil through an adjustable needle valve with sight feed control, delivered to the chain through nylon or stainless steel brush applicators. Standard configurations cover single feed and multi feed arrangements from 2 to 24 outlets, serving new conveyor builds and retrofit installations on existing equipment. Each unit is matched to chain designation, motor control architecture, and operating environment.

APPLICATIONS



Recycling & Material Recovery

Material recovery facilities subject roller chain conveyors to glass dust, abrasive fines, and flying debris that attack both the chain and the lubrication equipment itself. Shatterproof acrylic reservoirs rated from -20°F to 160°F withstand impact on sorting lines while the contactor tied solenoid meters oil only during chain movement.



Waste Management

Transfer stations and MSW processing lines run extended shifts with narrow maintenance windows and multiple parallel chains. Multi feed stacking valve configurations distribute oil from a single reservoir to as many as 24 lubrication points.



Scrap Metal & Aggregate

Chains handling scrap metal and aggregate materials generate abrasive particulate that degrades standard bristle materials. Stainless steel brush assemblies maintain structural integrity where nylon bristles would wear prematurely.



Construction & Demolition

C&D processing lines combine heavy chain loads, airborne grit, and chain speeds that push past standard duty limits. Stainless steel bristles handle speeds above 400 RPM while flat brush profiles span wide heavy duty chains.



High Temperature Processing

Conveyors positioned near dryers, furnaces, or hot material discharge exceed the limits of standard reservoir and bristle materials. Pyrex reservoirs rated to 225°F pair with chain driven roto brushes that transfer oil where stationary brushes degrade.



Mobile & High Vibration Equipment

Shredders, grinders, and mobile plant operate under continuous vibration and mechanical shock that cracks rigid reservoir materials. Polycarbonate reservoirs absorb impact while friction locked needle valves hold their drip rate settings.

KEY FEATURES

01

Normally Closed Solenoid Valve:

A 120V AC 60 Hz coil holds the valve closed until the motor control circuit energizes, opening the oil path only while the chain is in motion and drawing under 1 amp through existing control circuits.



02

Sight Feed Valve Assembly:

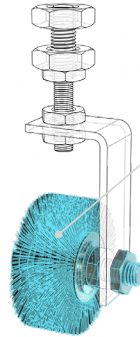
A transparent sight chamber between the reservoir and outlet shows individual oil drops, confirming flow initiation and exposing blockages or depletion without stopping the line.



03

Multi Material Reservoir Construction:

Shatterproof acrylic, high temperature Pyrex, and impact resistant polycarbonate reservoir options span capacities from 2.5 oz to 1 gal in clean view or center post designs.



04

Nylon and Stainless Steel Brush Applicators:

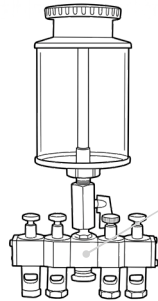
Round, flat, and roto brush profiles carry oil onto the chain, with nylon bristles for standard duty up to 400 RPM and stainless steel bristles for abrasive or high temperature service.



05

Modular Stacking Valve System:

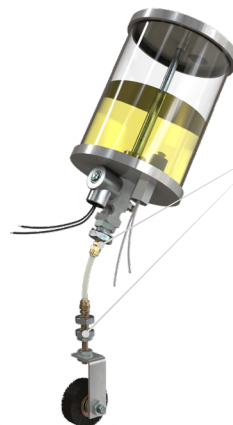
Each feed valve interlocks and seals against the preceding valve in the stack, distributing oil from one central reservoir to as many as 24 independent points with feeds added or removed in the field.



06

Friction Lock Needle Valve:

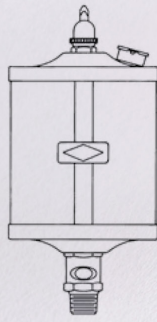
A tapered needle seats into the valve orifice for fine drip rate adjustment, while the friction lock holds the setting against continuous conveyor vibration.



07

NPT Pipe and Remote Thread Mounting:

Male NPT threads from 1/8" to 1/2" install directly to the conveyor frame, while a 5/8"-18 remote thread mount positions the unit offset from space constrained lubrication points.



120 VOLT AC ELECTRIC CONVEYOR OILERS SPECIFICATIONS

Parameter	Standard specification
Voltage input	120V AC @ 60 Hz
Actuation method	Solenoid valve, normally closed
Current draw	Under 1A through existing control circuits
Flow control	Adjustable needle valve with sight feed
Reservoir capacities	2.5 oz, 5 oz, 9 oz, 1 pt, 1 qt, 1/2 gal, 1 gal
Reservoir materials	Acrylic (standard), Pyrex, polycarbonate
Reservoir designs	Center post or clean view
Reservoir diameter	5 1/2" (standard)
Total height	Varies by capacity (16 9/16" for 1/2 gal)
Temperature range	-20°F to 160°F (acrylic), up to 225°F (Pyrex)
Outlet thread sizes	1/8", 1/4", 3/8" female NPT; 1/2" male NPT
Mounting threads	1/8" to 1/2" male NPT; 5/8"-18 remote thread mount
Brush configurations	Round (1/4" to 1 1/2" dia.), flat (2 1/4" to 11 1/4" length), roto (3" dia. × 1" wide)
Bristle materials	Nylon (up to 400 RPM, under 250°F), stainless steel (high temperature, abrasive)
Valve body material	Aluminum alloy
Covers	Aluminum alloy or polypropylene
Seals	Buna-N standard
Conduit connection	1/2" NPT thread
Filter	100 mesh aluminum filter (optional)

Note: Standard configurations shown. Additional capacities, thread sizes, and material combinations available on request.

120 VOLT AC ELECTRIC CONVEYOR OILERS

Multi feed configurations (2 to 24 feeds)

Parameter	Specification
Feed outlets	2 to 24 independent feeds
Distribution	Modular stacking valve system from central reservoir
Feed adjustment	Independent needle valve with friction lock at each outlet
Typical application	Wide conveyors over 48" chain centers, multiple parallel chains, distributed lubrication zones

SAE oil grade selection

SAE Grade	Temperature Range	Enviroment
SAE 10	-20°F to +80°F	Cold
SAE 20	+10°F to +110°F	Moderate
SAE 30	+20°F to +130°F	Warm
SAE 40	+30°F to +140°F	Hot
SAE 50	+40°F to +150°F	High temperature

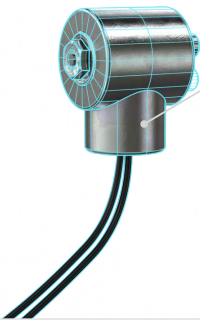
Note: Specify nondetergent oil for roller chain applications. Detergent additives interfere with oil penetration into pin and bushing clearances.

THE ENGINEERING ADVANTAGE

This section outlines the electrical integration and reservoir construction methodology behind 120 volt AC electric oilers, covering contactor wiring, VFD compatibility, and sealing design to ensure correct fit within existing motor control architecture.

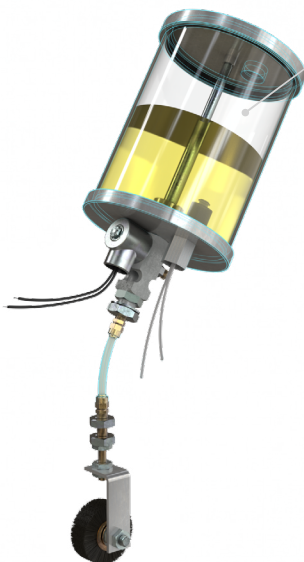
Motor Contactor Parallel Wiring:

The solenoid coil wires in parallel with the motor contactor coil, so both energize from the same control circuit and lubrication tracks conveyor runtime automatically.



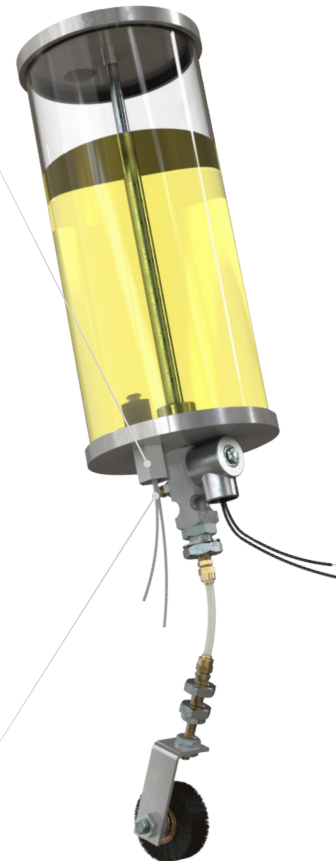
Gasket Free Reservoir Bonding:

The clean view design replaces the center tie rod and gasketed joints with a permanent bond, removing leak points and leaving unobstructed sight lines to oil level and condition.



Timer Relay Control Configuration:

Wiring the solenoid through timer relay contacts produces intermittent lubrication cycles independent of motor runtime, suited to variable duty cycles where continuous flow delivers excess oil.



VFD Auxiliary Contact Integration:

On variable frequency drive installations, the solenoid wires from upstream line voltage through VFD auxiliary contacts, isolating it from output voltage and frequency that vary with speed.

CONTACT INFORMATION

OUR ENGINEERS WILL SPEC THE EXACT PART FOR YOUR SYSTEM

For product specifications, engineering support, or order inquiries, please contact our team using the information provided below. Our specialists are available to ensure accurate recommendations and efficient service for your application requirements.

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