

# HyperFormance Chain Pin System

## Automatic Air/Oil Lubrication Kit

### General

The chain pin automatic air/oil system is an economical lubricator package that delivers precise oil droplets to chain pins for improved machine performance.

### Kit Components

Description	Quantity	
	2 Liter	4 Liter
Lubricator	1	1
HyperFormance Air/Oil Mixing Valve	1	1
Air Mixing Valve Solenoid	1	1
5/32" Nylon Tubing (Part #5N25)	10 ft per outlet	10 ft per outlet
Compression Bushing (Part #B1371)	2	1 per outlet
Compression Sleeve (Part #B8272)	2	1 per outlet
Adapter (Part #A2835)	2	1 per outlet
Nozzle (Part #34031-4)	---	1 per outlet
Timer	---	1



### Application

The chain pin automatic air/oil system uses Bijur Delimon's HyperFormance air/oil mixing valve to deliver precise oil droplets to chain pins and other moving mechanisms.

### Operation

Individual programmed air and oil flows are machine controlled and regulated by machine usage. Oil output is related to cycles per unit time. Injector output is preset to a fixed discharge and supply air pressure governs the pump output delivery pressure. Individual air/oil delivery lines from mixing block propel oil droplets to chain's surface.

### Technical Data

Reservoir Capacity	2 liter, 4 liter
Delivery Volume	.025cc per outlet (additional outputs available on request)
Viscosity Range	150-8000 SSU <sup>1</sup>
Normal Cycle Range	Up to 30 cycles/min. maximum <sup>2</sup>
Operating Temperature	32°F to 120°F
Oil Outlet Connection	5/32" diameter tubing
Lubricator Air Connection	5/16" diameter tubing
Air/Oil Pressure Ratio	1:4
Maximum Inlet Pressure	125 psi
Minimum Inlet Pressure	70 psi

<sup>1</sup> Viscosity range at operating temperature may be restricted by internal relief valve (consult Bijur Delimon).

<sup>2</sup> System parameters may affect this rate (consult Bijur Delimon).

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## Electrical Data

Current	Inrush	14.8 VAC (0.12 amp)
	Holding	10.9 VAC (0.09 amp)
Coil	Continuous duty, Encapsulated Class F	
Connection	Connector pin assignment according to DIN 43650 Form A	
Operation Mode	3 way, 2 position, normally closed	
Low Level Switch	0.17 amp at 110 VAC	

## Electrical Data for Timer\*

Power Consumption	1.0 W maximum
Switching Load	1 <sub>max</sub> = 0.5 at supply voltage 110/230V, 50/60 Hz
	1 <sub>max</sub> = 1-5 at supply voltage 24-48V, 50/60 Hz
Cable Outlet	Rotatable in 90° steps
Poles	2-pole and earth ground
Low Level Switch	0.17 amp at 110 VAC

## How to Order

Name	Reservoir	Solenoid Valve	1 Point Part #	2 Points Part #	4 Points Part #
HyperFormance Chain Pin System	2 liter	24 VDC	---	32496-1	---
		110 VAC	---	32562-1	---
	4 liter	24 VDC	36095-1	36095-2	36095-4
		110 VAC	---	36020-2	36020-4

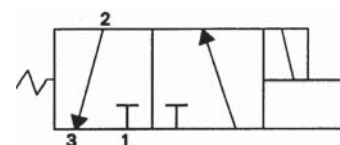
When ordering, specify by name, reservoir, solenoid valve and part number, e.g. HyperFormance Chain Pin System for 2 lubrication points, 2 liter reservoir with 24 VDC solenoid valve, Part #32496-1.

## Service Parts

Item	Description	Part #
1	24 VDC Solenoid Valve	20311-8
	110 VAC Solenoid Valve	20311-9
2	Reservoir Gasket	22205
3	Reservoir, 2 liter	20804-3
	Reservoir, 4 liter	22394-1
4	Level Switch	20256
5	Flow Control Valve	20736
6	Air/Oil Mixing Valve	1 point AVE1A
		2 points AVE2AA
		4 points AVE4AAAA
7	Fill Strainer	22285
8	Timer, 110 Volt*	24476
	Timer, 24 Volt, DC*	24476-24V

\* Only available on 4 liter models.

## Solenoid Schematic



\* Timer only available on 4 liter models.

Note: For additional information on timer and solenoid, see Data Sheet #27122.

See Service Part items in Dimensional Schematics on the following pages.

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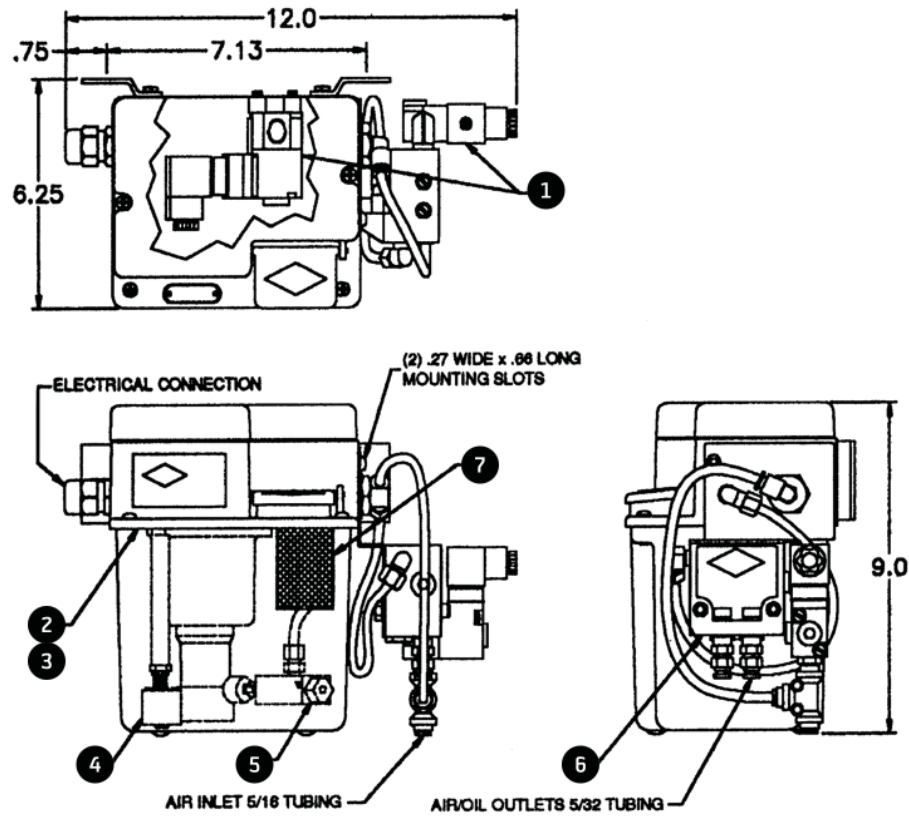
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## Dimensional Schematics

### 2 Liter Reservoir

Measurements shown in inches.



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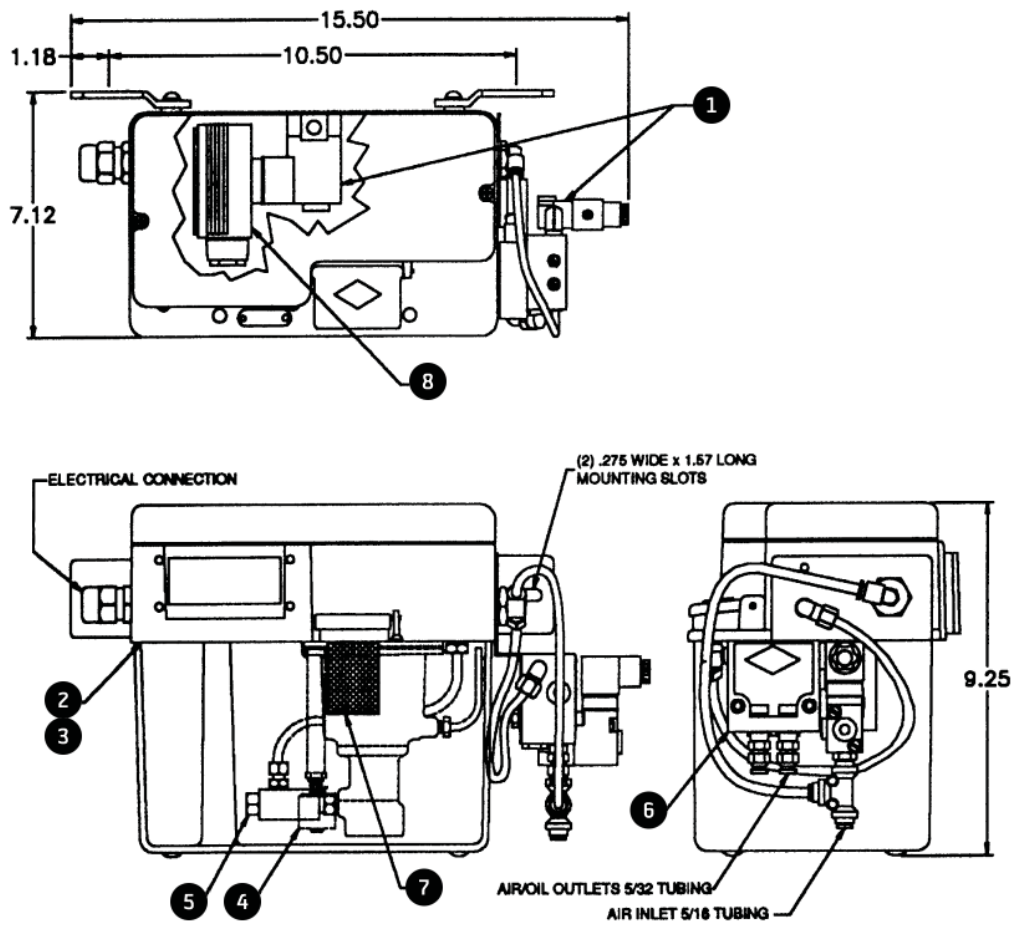
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## Dimensional Schematics

### 4 Liter Reservoir

Measurements shown in inches.



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