

## Ultra-Micro Output PurgeX® Adjustable Air Operated, with 1/8" Piston

Oil-Rite Corporation is pleased to announce its **NEW PurgeX** air operated pump that features ultra-micro output. Engineered and precision manufactured in the U.S.A. to meet the demands of industries we serve. The patented 1/8" version will help preserve our oil supplies, dispense high cost synthetic lubricants more efficiently and aid in pollution prevention. Along with this simplistic design, the PurgeX® method completely purges all entrained air and impurities with each stroke. The system is self priming.

PurgeX® with ultra micro output can be used with a wide range of liquids or chemicals that demand critical flow control. It can be used for dispensing precise quantities of liquid for food additives, applying adhesives in production, inks, dyes, special lubricants for oven conveyors, etc. Industries such as food, medical, printing, chemical, agricultural, plastic, marine, industrial machinery, packaging and conveyors are only a few which will greatly benefit by utilizing PurgeX® 1/8" injector pump.

Operation is simple. Liquid is pulled from a reservoir to the PurgeX® injector pump due to vacuum generated by pump. Reservoir location is not critical since each PurgeX® pump is a self-contained pump that can operate in any orientation. With ultra-fine adjustability, the single piece 1/8" piston allows precise metering of very small volumes of liquid, maximum output is .0012 cubic inches/.00066 ounces. Each clockwise turn of the integral calibration ring reduces output by .00026 cubic inches/.00014 ounces. High output pressures can be achieved due to a 25 to 1 ratio from air inlet to liquid outlet. Pressures of 3000 PSI output can be achieved with 120 PSI air. The minimum air pressure required is 40 PSI. In lab test, the PurgeX pump has over 360,000,000 cycles which have been achieved without appreciable wear. Oil-Rite "The First Time™"

© 2003

### The PurgeX Pump Features

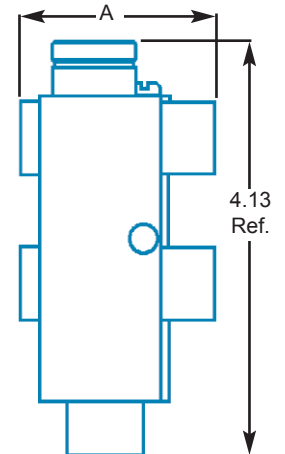
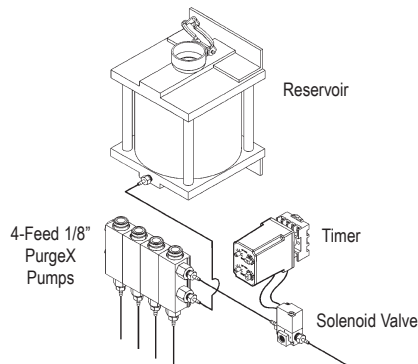
- No Priming Necessary-Positive Inlet Suction
- Operates in any position
- Purges entrained air - Will not vapor lock
- Suck-Back feature (no after drip) from outlet
- Vacuum of 20"-25" Hg generated on fluid inlet
- Less than 1/1000th ml per cycle achievable

### SPECIFICATIONS

Body	Anodized aluminum alloy (other material available)
Seals	Buna-N and Viton® (other seals available)
Temperature	-15° F to 180° F
Air pressure	40 PSI Minimum
Piston ratio	25:1
Piston diameter and stroke	.125. dia. by .100 stroke (in.)
Grease type	Grade 00, 0, 1, 2

### Typical Installation

Simplicity of design, installation, and maintenance are the trademarks of PurgeX. Each unit is an independent pump, the basic requirements include only a lubricant reservoir, 3-way solenoid valve, timer or sequence signal, tubing, and fittings. The illustration in the figure below, shows a basic system with 4 lubricant feed points.



Patent Number 6,099,270 5,984,652  
4,784,578

### SELECTION CHART

When Ordering Specify:  
•Catalog Number

Determine number of lubrication points and select corresponding PurgeX pump model with the correct number of feeds. Select appropriate reservoir capacity. Select 3-way solenoid operated air valve to turn lubrication cycle on/off. Select timer or use machine controls to signal solenoid valve. Request a catalog.

BUNA-N SEALS	VITON® SEALS	NO. OF FEEDS	DIM. (IN.) A
B3583-101	B3583-301	1	2
B3583-102	B3583-302	2	3-1/4
B3583-103	B3583-303	3	4-1/2
B3583-104	B3583-304	4	5-3/4
B3583-105	B3583-305	5	7
B3583-106	B3583-306	6	8-1/4
B3583-107	B3583-307	7	9-1/2
B3583-108	B3583-308	8	10-3/4
B3583-109	B3583-309	9	12
B3583-110	B3583-310	10	13-1/4
B3583-111	B3583-311	11	14-1/2
B3583-112	B3583-312	12	15-3/4

© Viton is a registered trademark of Dupont Dow Corp.

Litho USA