



VIP 4 AIR

VIP 4 AIR - MINIMAL AIR/OIL LUBRICATION SYSTEM

THE VIP4AIR IS THE MOST COMPLETE AND COMPACT MINIMAL AIR/OIL LUBRICATION SYSTEM AVAILABLE TODAY.

Air/Oil Minimal lubrication is a relatively new technology that has been used successfully to substitute costly Oil Re-circulation and non environmentally-sound Mist Systems.

It has provided excellent results both in terms of performance and total system cost.

It is ideal for use on Bearings, High Speed Bearings, Gears and also in certain circumstances on Guides. It is particularly suited to Spindle Lubrication.

In the past, excessive oil has been used often only to ensure that the 'system is working'. This oil generates heat and has to be taken away from the lubrication point.

Dropsa has taken the 'minimal lubrication' concept one step further with the VIP4Air that can achieve ultra-low volume oil discharge and at the same time provide electronic monitoring (using a custom designed differential flow sensor integrated into the unit). This allows true minimal lubrication by applying micro-amounts of lubricants at more frequent intervals whilst giving positive feedback that oil is correctly being injected and mixed into the air stream.

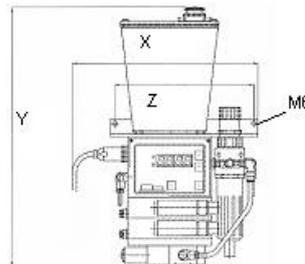
The **VIP4Air** System contains all components necessary to achieve and monitor optimum minimal Air/Oil Lubrication.

PRODUCT FEATURES :

- **1 – 8 Lubrication Points** each with independent monitoring
- **0.005 – 0.030 cm³** (0.0003 – 0.0018 cu.in) of oil per discharge (standard settings 7-15-30 mm³)(0.0004 – 0.0009 – 0.018 cu.in).
- **Tamperproof** adjustment 'rings' avoids end-user modifications.
- Integrated Differential Flow sensor gives **positive feedback** of Air/Oil lubrication.
- Fully Electronic Controls = quick Set-up and interfacing to host.
- **Integrated Mixing Air Pressure Transducer** provides accurate and quick setting of Air Pressure on the electronic display, as well as providing alarms for blocked or broken lubrication lines via high/low air pressure monitoring.
- **Automated Priming Sequence** for quick and easy installation.
- **Integrated & Compact** – Connections are internal to the unit

AIR/OIL MINIMAL LUBRICATION :

Continuous Air Flow:	Cyclic micro-oil Injection:
Provides Cooling	Reduces friction
Provides Transport Medium	Minimal quantities avoid 'churning' and heat generation.
Prevents Contamination and ingress of water or dirt.	No Excess Oil
	Frequent lubrication intervals help thermal stability of system.



Dropsa is a leading international manufacturer of Automatic Lubrication Systems and can assist with a wide range of technical and application advice, systems and components. Contact one of our offices or distributors for more information.



N° Pumps	VIP4Air 24 V DC	VIP4Air 110 V AC
1	3135064	3135065
2	3135055	3135056
3	3135067	3135068
4	3135070	3135071
5	3135073	3135074
6	3135076	3135077
7	3135079	3135080
8	3135082	3135083

Attention: connector not included, to be ordered separately; connector, p/n 1639115 + cable 2 mt

Technical Characteristics VIP4Air Lubrication System	
Voltage	24 V DC 110 V AC
Power	10 W
Air Pressure Inlet	5 ÷ 8 bar (73.5 ÷ 117.6 psi)
Output Signal	Remote Alarm relay: max 250 V 1 A NO / NC
Operating Temperature	-5 ÷ +55 °C (23 ÷ 131°F)
Humidity	90% max
Protection	IP-44
Lubricants	Mineral Oils
Oil Viscosity	32 ÷ 220 cSt (150 ÷ 1018 SUS)
Reservoir capacity	1 lt

Elements	Y	X	Z	Depth
1	331			
2	359			
3	387			
4	415	270	200	125
5	443			
6	471			
7	499			