



CHARACTERISTICS

- All-inclusive solution
- Control of lubrication cycle
- Air/Oil flow regulation for each point

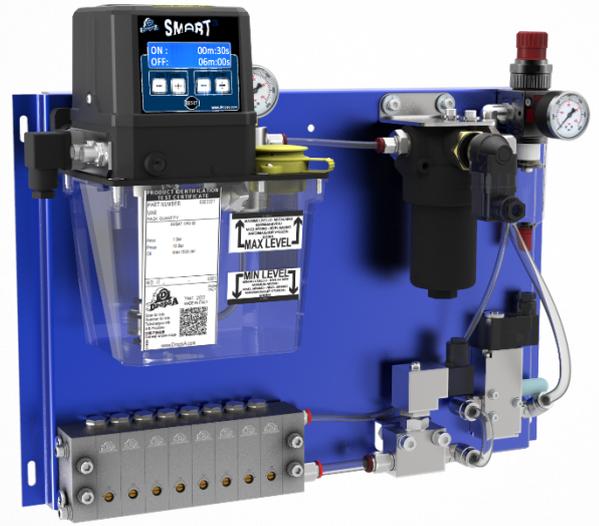
APPLICATIONS

- Machine tools
- Chain
- Bearings
- Gears
- Slideways
- Bushings

AIR-OIL PANEL FOR SPINDLES

DROPSA AIR-OIL PANEL FOR SPINDLES is a new application designed to expand upon DropsA's product capabilities. This application utilizes an excellent and flexible pump such as the **SMART 3 OIL PUMP**, with mixing manifold elements and **6700 SERIES** volumetric metering cartridges.

DROPSA's AIR-OIL PANEL FOR SPINDLES can be used for the **MACHINE TOOL INDUSTRY**, especially **spindle heads** with high-speed applications, **bearings**, and gear **boxes**. The unit can also be used in a wide range of applications where centralized lubrication is required. **Utilizing air-oil lubricant** reduces the environmental impact (compared to oil or grease lubrication) while increasing machine performance.



PRODUCT DETAILS

DropsA SMART 3 PUMP,
available in 2 liter or 3 liter version,
AUTOMATIC or MANUAL configuration.
Features:

- Motor: 24V DC - 55W
110V AC - 50/60Hz
230V AC - 50/60Hz
- Flowrate 180cc/min @2800rpm
220cc/min @3500rpm
- Automatic control available
(Setting cycles and timing, alarm or control the system)

AOB – AIR/OIL INJECTION DISTRIBUTOR BLOCKS
Adjustable air mixing manifold, with oil cartridge valves. Available in 6 different sizes:

- 1) 0.005 cc
- 2) 0.01 cc
- 3) 0.02 cc
- 4) 0.03 cc
- 5) 0.12 cc.
- 6) 0.50 cc

Due to DropsA's interlocking technology, flexibility of the system is available, and the unit can be configured with up to 8 air-oil elements.

OIL FILTER 3µ
available as an **OPTION**.

Electrical clogging indicator (externally controlled) can be also installed on the filter.

AIR FILTER REGULATOR
available as an **OPTION**.

- High performance filter with rolling diaphragm, low load losses.
- Lockable safety knob
- Pressure range: 0-8bar
- Inlet size: G1/4"

SOLENOID VALVE FOR AIR
available as an **OPTION**.

- 3/2 way
- electro-pneumatic coupling
- 1/4" NC monostable
- Min pressure 2.5 bar

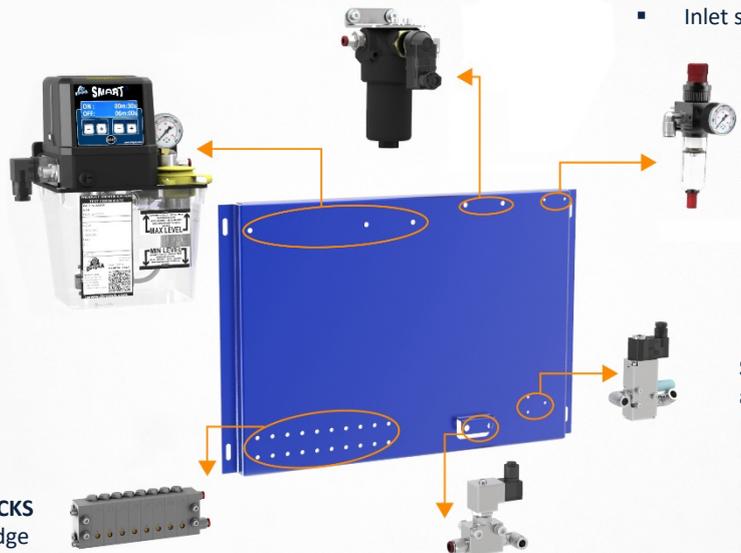
Available with COIL:

- 24V DC
- 110V AC
- 220V AC 50/60Hz

PRESSURE SWITCH for AIR
available as an **OPTION**.

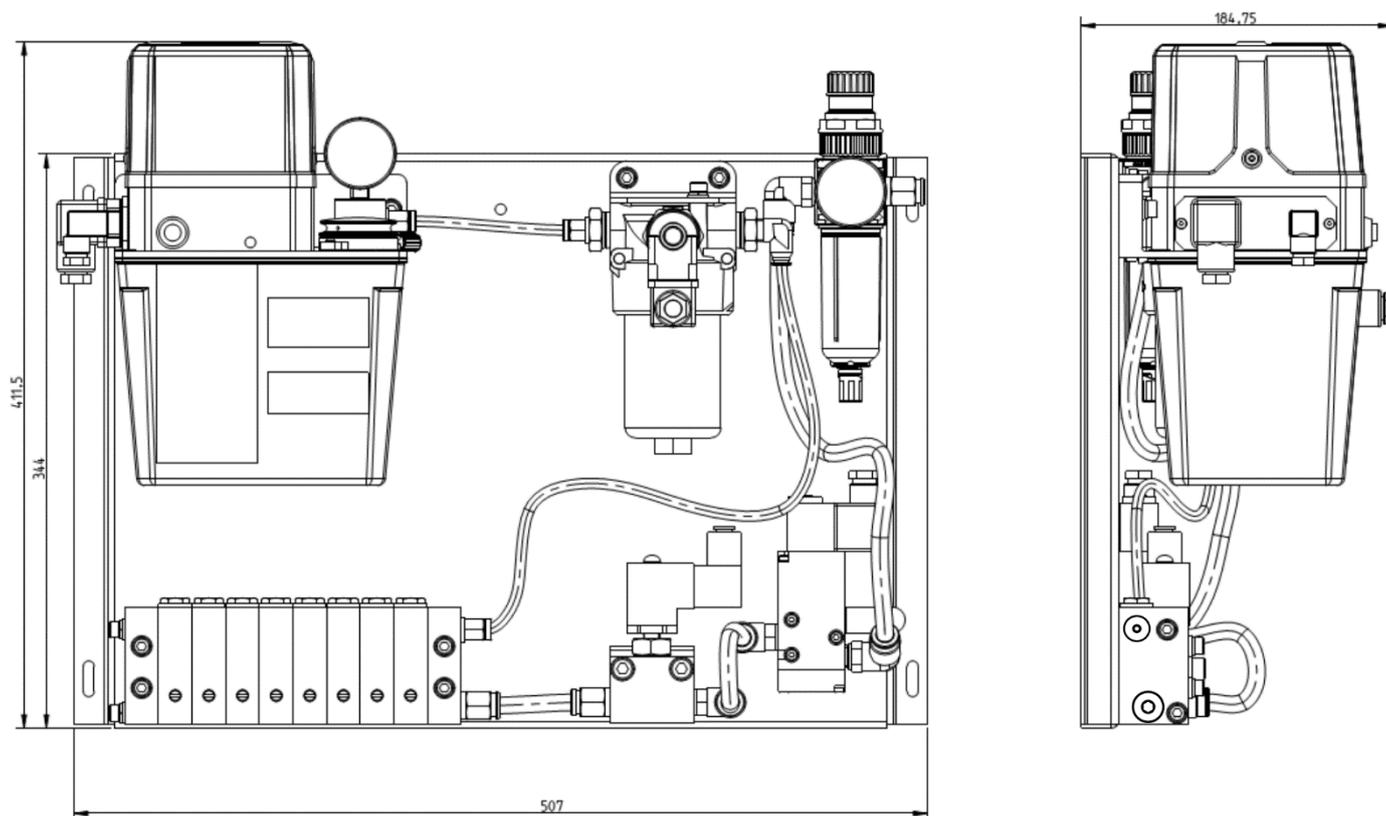
Adjustable setting micro-switch diaphragm pressure switch.

Operative range: 0.5-10 bar





DIMENSIONS



Compared to a standard VIP4 system, this unit is an all-inclusive solution with control options (using the **SMART3 automatic controller**), air regulation, filtration, oil filtration, air pressure, and flow control.

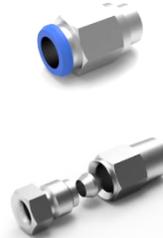
The **NEW** mixing system use **6700 series metering cartridges** which are installed in mixing elements with air regulation. At each point the mixture can be adjusted increasing or decreasing the amount of air.



ADDITIONAL COMPONENTS

MIXING VALVES OUTLET:

FITTING TYPE	PIPE DIAMETER	CODE
PUSH-IN 1/8BSP	Ø6	3084578
PUSH IN (AIR LINE INLET) – 1/4 BSP	Ø10	3084702
TERMINAL WITH CONE – 1/8 BSP	Ø6	0092080
TERMINAL WITH RING – 1/8 BSP	Ø6	0091951



OIL IN AIR SENSOR:

OIL IN AIR SENSOR is an optical sensor that detects the oil inside the air, and it is mainly used for MINIMAL lubrication air-oil application.

This sensor is placed directly on the air-oil outlet line monitoring the correct presence of lubricant in the air stream, ensuring the proper operation of the system.



PIPE DIAMETER	CODE
OIL IN AIR SENSOR	1655765

PIPES:

FITTING TYPE	PIPE DIAMETER	CODE
NYLON PIPE	Ø6	5717203
NYLON PIPE AIR LINE	Ø10	5717205



CLIPS (1 FIXING POINT):

PIPE DIAMETER	CODE
Ø6	0111201
Ø10	0111301



CLIPS (1 FIXING POINT):

PIPE SIZE	CODE
Ø4 – 4 TUBES	0111154
Ø4 – 6 TUBES	0111156
Ø4 – 8 TUBES	0111158

