

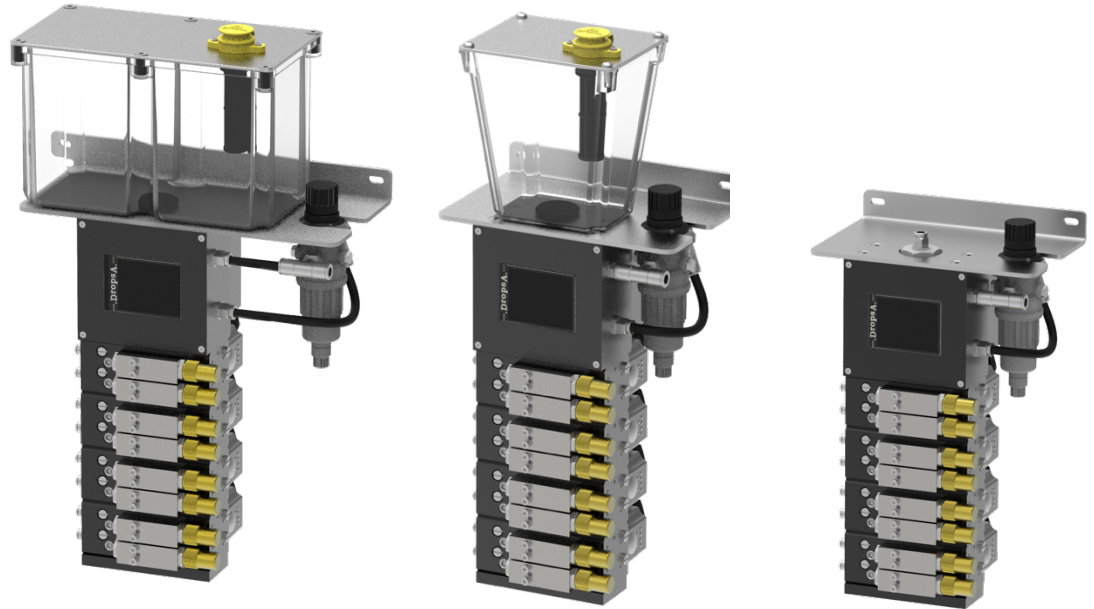
CHARACTERISTICS

- Air/Oil micro-lubrication up to 8 points for industry 4.0 and IoT connectivity.
- Possibility of local management via touch-screen or remote via **PLC**
- Air/Oil granular control on each point.
- Modular, scalable system from 2 to 8 points.
- Micro volumetric Oil dosing pumps 5mmc – 30mmc.
- Advanced dosing control sensor and point-by-point mixing pressure
- Independent command for each outlet: Air and Oil dosage.
- **IO-Link communication** for sensors and commands on each module
- Continuous tank level reading
- **Lubricant: Oil**
- Tank can be installed locally or remotely

APPLICATIONS

- Machine tools
- High speed bearing s and spindles
- Chain and belts

Air/Oil micro-lubrication with advanced diagnostic for industry 4.0 and IoT connectivity



VIPAIR 4.0 is the **Air/Oil system** with **advanced diagnostic** ideal for the micro-lubrication of spindles of the various types of **machine tools**.

The device consists of a main module that manages the cycles of each output in a totally independent way, and communicates the status of the whole system through **IO-Link**. In addition, with IoT connectivity through **DRUCS.NET platform (Dropsa Remote Universal Control System)**.

The main module can manage up to **4 mixing bases (8 mini-pumps/outputs)** and is equipped of a lubricant level sensor, through which it is possible to detect the percentage of liquid present in the tank.

The system can operate in **2 ways**:

- A **completely autonomous**, which allows a stand-alone installation with remote diagnostics via IO-Link and IoT.
- One in **IO-Link mode**, for the management of the entire product **remotely via PLC**.

Through the parameters it is possible to enable lubrication with external pulses. In this modality the system will control the external input, and upon reaching the cycles set will activate the oil supply of the mini-pumps.

The output on the device can also be configured through the parameters and can be set as **“System Status”**, **“Refilling”** or independent management via **IO-Link command**.

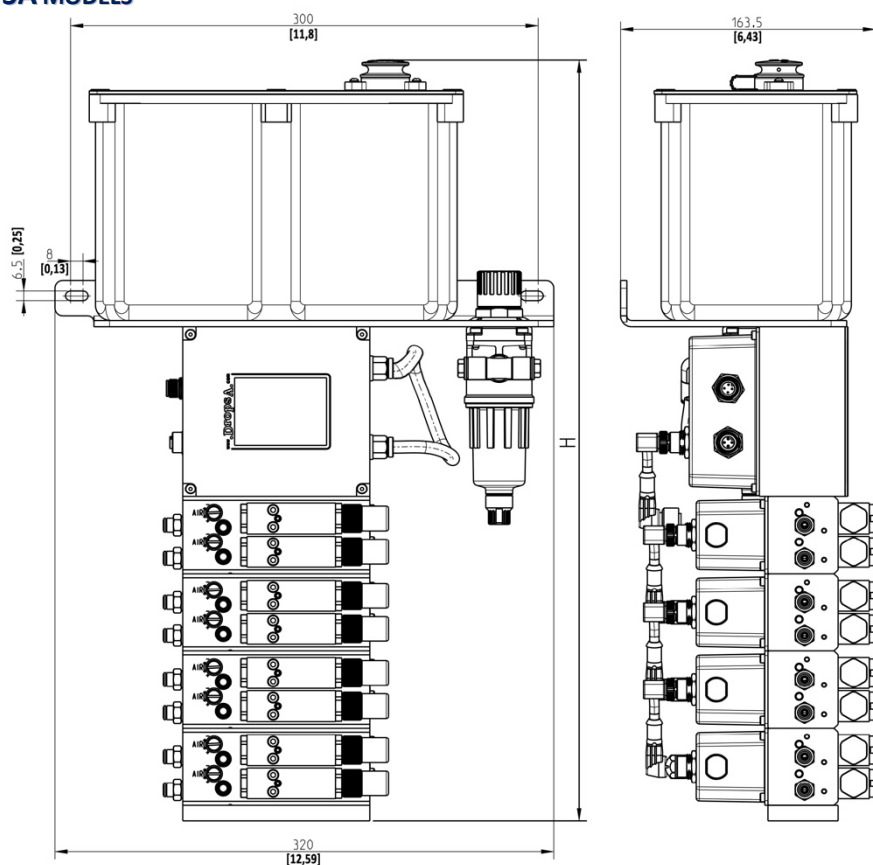


TECHNICAL CHARACTERISTICS

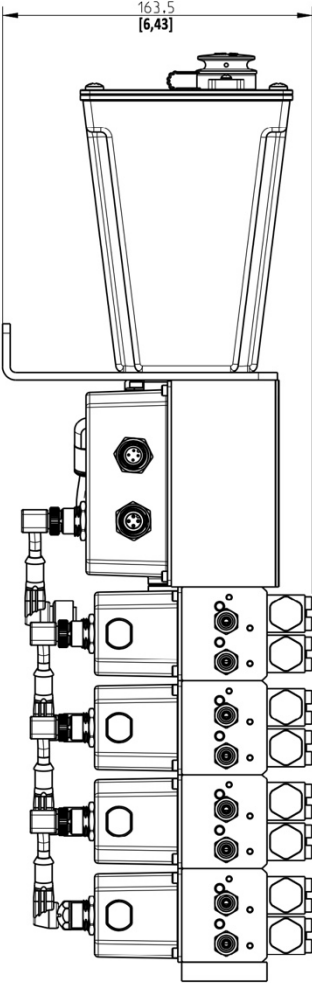
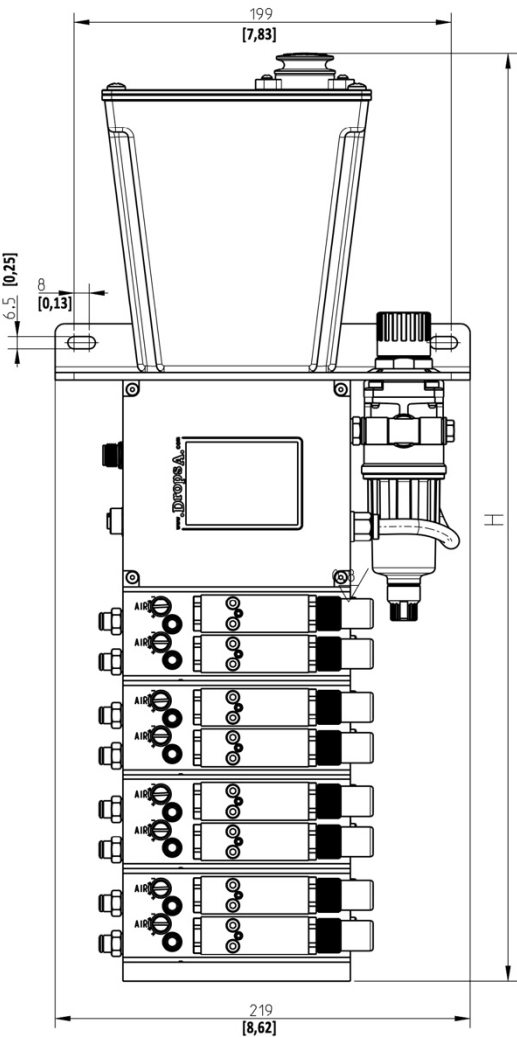
TECHNICAL FEATURES		
Working voltages	VDC	24 \pm 10%
Supply air pressure	bar	5 \div 8
Operating temperature	°C [°F]	-5 \div +50 [23 \div +122]
Operating humidity	%	Max 90
Degree of protection	IP	65
Lubricants		Oil
Oil viscosity at working pressure	cSt	32 \div 220
Storage temperature	°C [°F]	-20 \div 65 [-4 \div +149]
Air supply		Tube Ø8
Air/Oil outputs		Tube Ø4
Digital inputs	N°	1
Digital outputs	N°	1
Power connector		M12x1 – 4 Male Pin
Signals connector		M12X1 – 4 Female Pin
TECHNICAL CHARACTERISTICS IO-LINK SIGNALS		
Hardware features		Protection from polarity inversion on the power supply
INPUT - Signals		Independent command for each air outlet Independent command of Oil delivery Alarms cancellation (Reset) Command of output signal
OUTPUT – Tank level	%	0 \div 100
OUTPUT – Pressure Air outlet	Bar	0 \div 10 (\pm 1% FS)
OUTPUT - Signals		System status Solenoid valve status Signal for Oil delivery

DIMENSIONS (DRAWINGS NOT IN SCALE)

SA MODELS

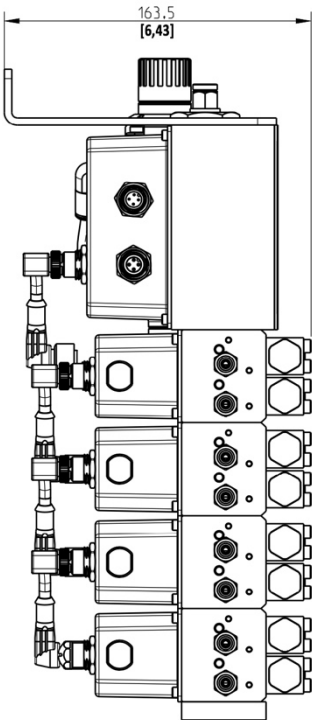
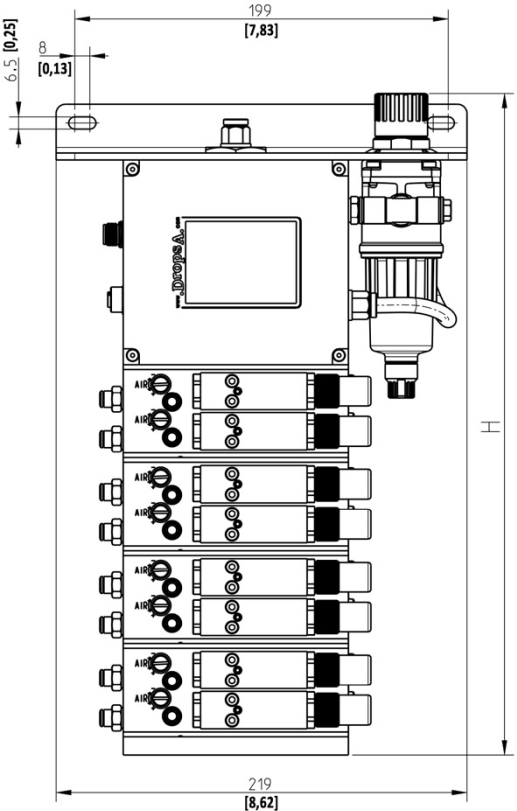


"H" Height
344 [13.5]
394 [15.5]
444 [17.5]
494 [19.4]



"H" Height
343 [13.5]
393 [15.5]
443 [17.4]
493 [19.4]

DIMENSIONS (DRAWINGS NOT IN SCALE)
RM-SA MODEL



"H" Height
206 [8.1]
256 [10]
306 [12]
356 [14]



ORDERING INFORMATION

Description	Code	Tank
Vip Air 4.0 – 2 Points-1L-SA	3135921	1 LITRE
Vip Air 4.0 – 4 Points-1L-SA	3135922	1 LITRE
Vip Air 4.0 – 6 Points-1L-SA	3135923	1 LITRE
Vip Air 4.0 – 8 Points-1L-SA	3135924	1 LITRE
Vip Air 4.0 – 2 Points-3L-SA	3135926	3 LITRE
Vip Air 4.0 – 4 Points-3L-SA	3135927	3 LITRE
Vip Air 4.0 – 6 Points-3L-SA	3135928	3 LITRE
Vip Air 4.0 – 8 Points-3L-SA	3135929	3 LITRE
Vip Air 4.0 – 2 Points-RM-SA	3135931	NOT INCLUDED – REMOTE MOUNT
Vip Air 4.0 – 4 Points-RM-SA	3135932	NOT INCLUDED – REMOTE MOUNT
Vip Air 4.0 – 6 Points-RM-SA	3135933	NOT INCLUDED – REMOTE MOUNT
Vip Air 4.0 – 8 Points-RM-SA	3135934	NOT INCLUDED – REMOTE MOUNT