

VIPAIR 4.0-SMODULE

AIR/OIL MICRO-LUBRICATION



VIPAIR 4.0-SMODULE

VipAir 4.0-SModule represents the new generation of air-oil volumetric micro-dosing modules that allows the regulation and control of micro-amounts of oil typically used on high-speed spindles, chains and belts.

The device consists of independent modules containing two volumetric micro-pumps, that are managed through IO-Link communication and can be managed independently of each other.

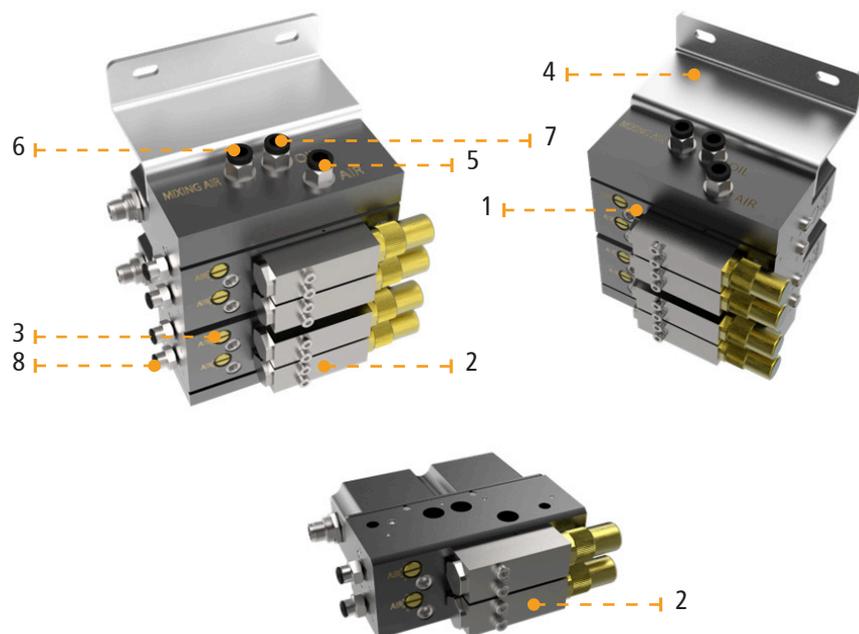
The high level of control is ensured by the presence of a cycle sensor, that verify the effective delivery of oil, and the pressure sensors at the outlet, that verify the correct air leakage. The pressure and cycle values are read and managed via IO-Link interface.

In addition, it gives the possibility to install up to 4 mixing bases.

ADVANTAGES

In a single ultra-compact module is it possible to manage two lubrication points and read the lubrication and air control independently through a single cable thanks to IO-Link interface.

STANDARD SYSTEM PARTS



CHARACTERISTICS

IO-LINK COMMUNICATION FOR SENSOR AND CONTROLS ON EACH MODULE.

GRANULAR AIR AND OIL CONTROL ON EACH POINT

MICRO VOLUMETRIC OIL METERING PUMP 5MMC – 30MMC.

MODULAR SYSTEM SCALABLE FROM 2 TO 8 POINTS.

INDEPENDENT CONTROL FOR EACH OUTLET: AIR AND OIL DOSAGE

STANDARD PARTS

1	Sub-base	5	Minipump air inlet - Ø8 hose
2	Minipump	6	Additional air inlet - Ø8 hose
3	Air flow adjustment	7	Oil inlet - Ø8 hose
4	Support bracket	8	Air/oil inlet - Ø4 hose



TECHNICAL FEATURES

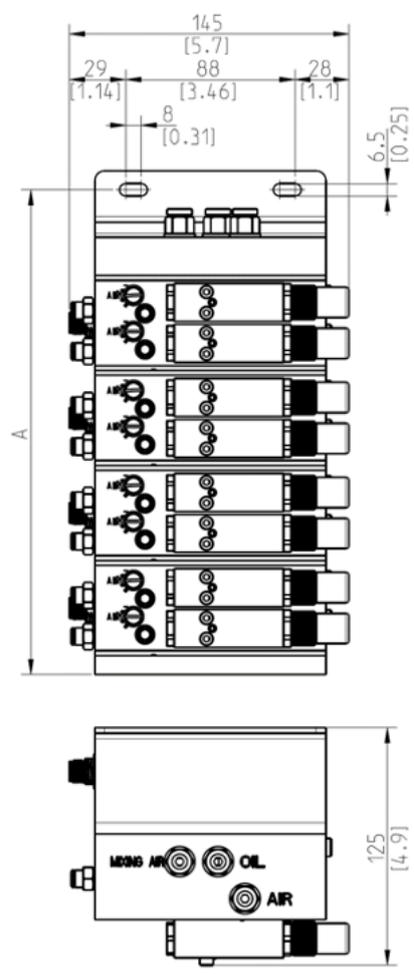
Supply air pressure	bar	5 - 8
Maximum oil supply pressure	bar	1
Minipump flow rate (2)	mm ³ /cycle	7 - 15 - 30
Operating temperature	°C [°F]	-5 - +50 [23 - +122]
Operating voltages	VDC	24 ±10%
Operating humidity	%	90 max
Degree of protection	IP	65
Lubricants (1)		Oil
Oil viscosity at working temperature	cSt	32 - 220
Storage temperature	°C [°F]	-20 - 65 [-4 - +149]

TECHNICAL SPECIFICATIONS IO-LINK SIGNALS

Hardware features		Reverse polarity protection on power supply Protection against power supply disturbances (Spike)
INPUT - Signals		Independent command for each air outlet Independent oil supply command Deactivation of the solenoid valves in the absence of communication with the PLC
OUTPUT - Air outlet pressure	Bar	0 - 10 (±1% FS)
OUTPUT - Signals		Keep alive signal Signal of oil supply completed

Note: Specifications refer to an operating temperature of +20°C (+68°F)

OVERALL DIMENSIONS



N° SUB-BASES	A
1	105 [4.1]
2	155 [6.1]
3	205 [8]
4	255 [10]

C2374PE - WK 08/24

ORDERING INFORMATION

STANDARD VERSION

# MODULES	CODE
1	3135901
2	3135902
3	3135903
4	3135904

DESCRIPTION	CODE
1 metre IO-Link PUR cable	UE-CVPR054
2 metres IO-Link PUR cable	UE-CVPR055

SPARE PARTS

Use Original Spare parts when replacing the pump parts.

When purchasing spare parts always mentioned the pump model and serial number (this information is found on the identification plate) as well as the spare part code.

SPARE PART DESCRIPTION	CODE
Minipump	3103015
Cover	6770209

DropsA S.p.A. cannot be held liable for any deterioration in pump performance or damage caused to it due to the use of non-original spare parts.