

CHARACTERISTICS

- SEPARATE PRESSURIZED TANK
- SEPARATE AIR OIL SUPPLY
- CONSTANT FLOW RATE INDEPENDENTLY BY THE INLET AND OUTPUT PRESSURE CHANGES
- INDEPENDENT SOLENOID CONTROL
- MONO-TUBE OR COAX POSSIBLE WITH STANDARD PRODUCT
- AIR AND OIL DELIVERY REGULATION FOR EACH SINGLE ELEMENT

APPLICATIONS

- MACHINE TOOLS
- MACHINE FOR SHEET METAL CUT AND FOLD
- STEEL MILLS

BENEFITS

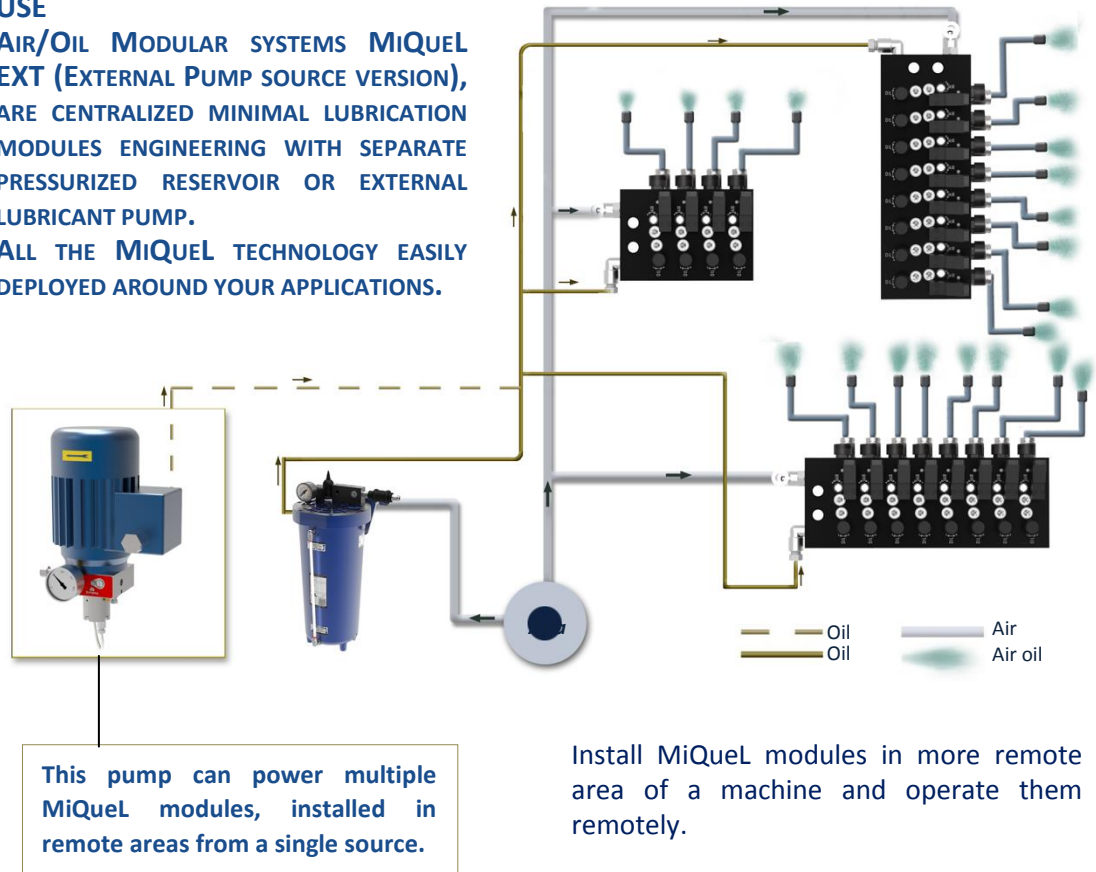
- EASE TO INSTALL ON THE MACHINE
- REDUCING TOOL WEAR
- BETTER FINISH OF THE WORK PIECE
- FINISHED PIECE WITHOUT LUBRICANT RESIDUE
- NO DRIPPING FROM NOZZLES AFTER SHUTDOWN
- HIGH SPRAY DISTANCES (UNTIL 300 MM)
- INCREASED SAFETY AND ENVIRONMENTAL HYGIENE IN THE WORKPLACE.

EASILY ENGINEER DISTRIBUTED AIR-OIL MQL SYSTEMS WITH MIQUEL-EXT MAINTAINING CONTINUOUS AND PERFECT AIR/OIL

FUNCTIONAL, EFFICIENT, EASY TO USE

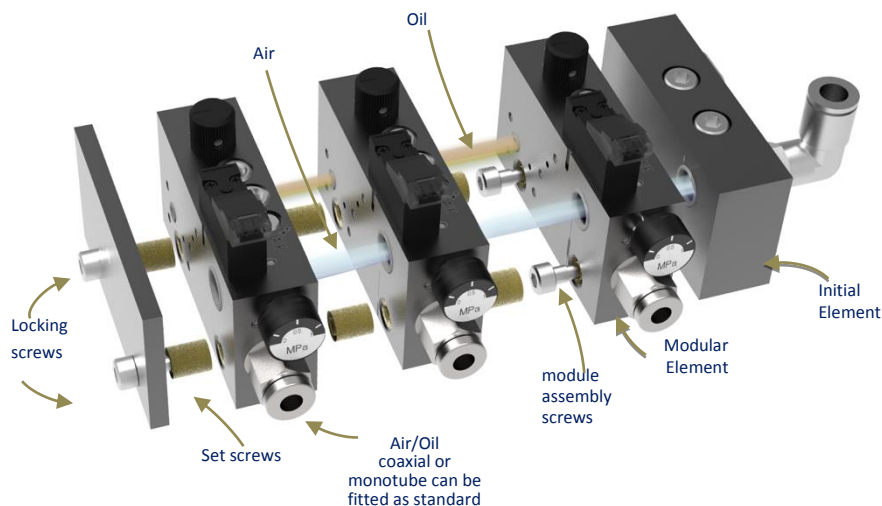
AIR/OIL MODULAR SYSTEMS MIQUEL EXT (EXTERNAL PUMP SOURCE VERSION), ARE CENTRALIZED MINIMAL LUBRICATION MODULES ENGINEERING WITH SEPARATE PRESSURIZED RESERVOIR OR EXTERNAL LUBRICANT PUMP.

ALL THE MIQUEL TECHNOLOGY EASILY DEPLOYED AROUND YOUR APPLICATIONS.



MiQueL EXT, air and oil is fed separately to the modules.

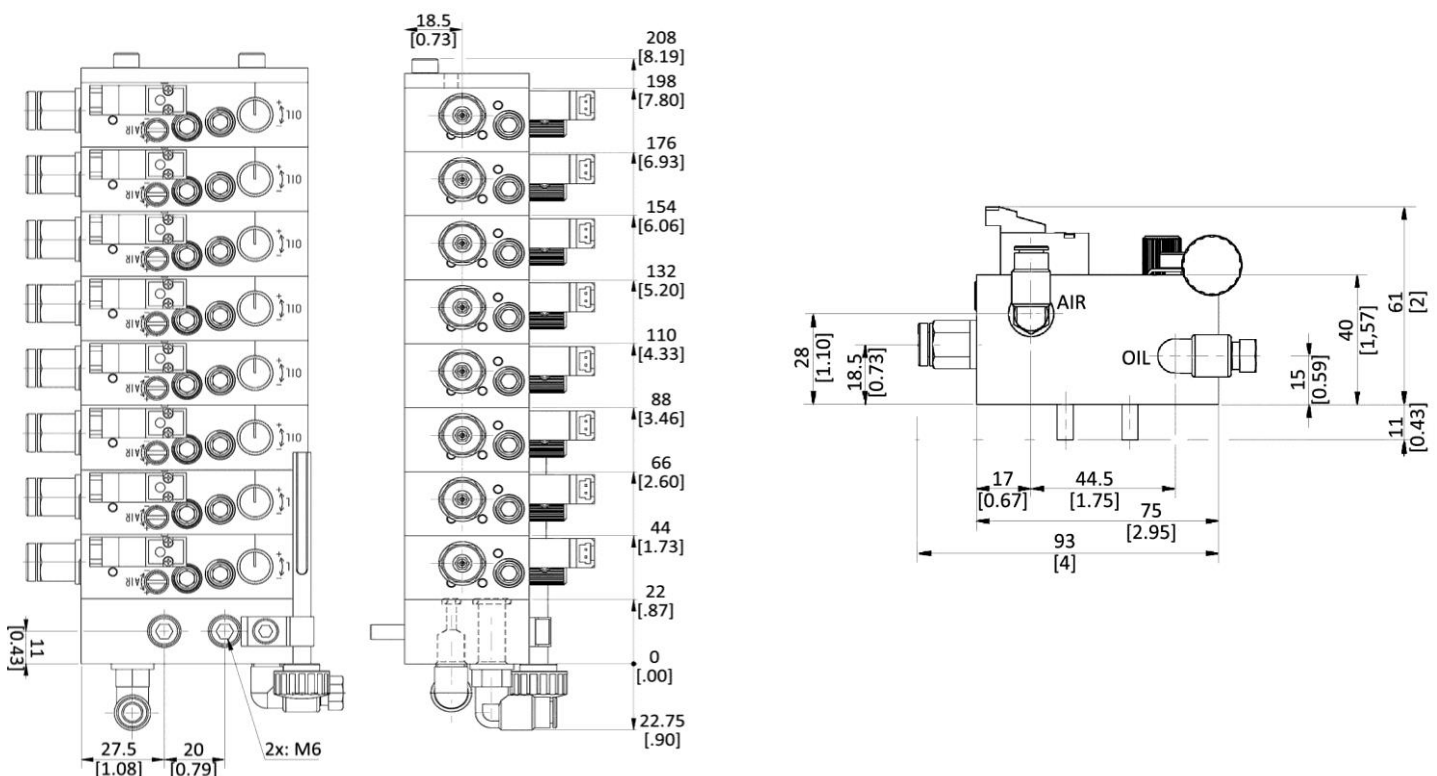
Oil pressure must be higher than the air pressure. The PRO versions will automatically balance oil pressure depending on lubrication point back pressure.



TECHNICAL SPECIFICATIONS

Pumping system	External pump	
Maximum number of modules	8	
Maximum Oil inlet pressure	2,5:1 in relation with air inlet pressure	
Air inlet pressure	4bar ÷ 7bar [87psi ÷ 101,5psi]	
Maximum air consumption at the outlet	~50NI/min (per module)	
Air inlet pipe	Ø8mm	
Oil inlet pipe	Ø6mm	
Air outlet pipe	Ø6mm	
Oil outlet pipe	Ø3mm	
Oil flow rate per element	PRO	0,1 ÷ 2,7 cc/min (Oil 10cSt)
		0 ÷ 1 cc/min (Oil 32cSt)
		0 ÷ 0,2 cc/min (Oil 100cSt)
	BASE	0,3 ÷ 8 cc/min (Oil 10cSt)
		0,1 ÷ 3 cc/min (Oil 32cSt)
		0 ÷ 0,6 cc/min (Oil 100cSt)
	CART	cc/min = (P x 8,16)/V P = Operating pressure in [bar] V = viscosity [Engler] at operating temperature
Lubricant	10cSt ÷ 100cSt	
Protection grade of module “-i”	Standard	IP 00
	On request (special)	IP 65
Element solenoid valve power supply	24Vdc	
Operating temperature	+5°C ÷ +50°C	
Storage temperature	-10°C ÷ +80°C	
Max relative humidity without operating condensate	90%	
Sound level pressure	< 70 db (A)	


DIMENSIONS





ORDERING INFORMATION

VERSION	DESCRIPTION	MODULES	CODE
MiQueL PRO	Air/Oil modular minimal system with compensation valve without a solenoid valve for independent control N(1-8) modules	1	3135581
		2	3135582
		3	3135583
		4	3135584
		5	3135585
		6	3135586
		7	3135587
		8	3135588
MiQueL PRO - <i>ē</i>	Air/Oil modular minimal system with compensation valve with a solenoid valve for independent control N(1-8) modules	1	3135591
		2	3135592
		3	3135593
		4	3135594
		5	3135595
		6	3135596
		7	3135597
		8	3135598
MiQueL BASE	Air/Oil modular minimal system without compensation valve without a solenoid valve for independent control N(1-8) modules	1	3135601
		2	3135602
		3	3135603
		4	3135604
		5	3135605
		6	3135606
		7	3135607
		8	3135608
MiQueL BASE - <i>ē</i>	Air/Oil modular minimal system without compensation valve with a solenoid valve for independent control N(1-8) modules	1	3135611
		2	3135612
		3	3135613
		4	3135614
		5	3135615
		6	3135616
		7	3135617
		8	3135618
MiQueL EXT - BASE - <i>ē</i> - IP65	Air/Oil modular minimal system without compensation valve with solenoid valve for independent control	1	3135391
		2	3135392
		3	3135393
		4	3135394
		5	3135395
		6	3135396
		7	3135397
		8	3135398
MiQueL EXT - CART - <i>ē</i>	Air/Oil modular minimal system without compensation valve and oil adjustment with solenoid valve for independent control	1	3135631
		2	3135632
		3	3135633
		4	3135634
		5	3135635
		6	3135636
		7	3135637
		8	3135638

MiQueL EXT - CART -  - no EV	Air/Oil modular minimal system without compensation valve and oil adjustment without solenoid valve for independent control with valves	1	3135651
		2	3135652
		3	3135653
		4	3135654
		5	3135655
		6	3135656
		7	3135657
		8	3135658

ACCESSORIES AND SPARE PARTS

CODE	DESCRIPTION	CODE	DESCRIPTION
1525446	Module solenoid valve connector (-i)with 600mm cable	3084672	Swivel push-in 90° Ø8 pipe
1525476	Module solenoid valve connector (-i)with M8 connector	3084566	Swivel push-in 90° Ø6 pipe
3133561	Pressurized Reservoir for MiQueL EXT – 1lt	5717232	Outlet oil Ø3 tube
3133560	Pressurized Reservoir for MiQueL EXT – 3lt	5717301	Ø6 AIR outlet pipe
3133558	65° Coaxial nozzle – flat cone	3226664	Oil MK 150 20 lt.
3133564	FULL cone monotube nozzle	3226665	Oil MK 100 25 lt.
3133565	65° monotube nozzle flat cone	3226666	Oil MK High Performance 29 lt.
1525050	Monotube nozzle for 50mm BLADE	3225465	Oil MK Stainless 20 lt
1525051	Monotube nozzle for 70mm BLADE	3133455	Coaxial nozzle - Narrow Cone Pattern
1525475	Device to remove Ø3 tube		

Reservoir for MiQueL EXT (optional)

