SSP-MT Pneumatic Minimal Quantity Oil & Air Lubricator

SSP-MT

System instructions regarding external minimal quantity lubrication (MQL):

A pneumatically actuated, positive displacement micropump with adjustable and precise metered quantity control is the clean, economical, energy-efficient and reliable alternative to wet machining and the ideal supplement to dry machining and can be used in many areas : machining - Sawing, drilling, tapping, milling, drawing, cutting, punching, stamping, components assembling and lubrication of conveyor chain and so on.

Advantage:
1.Exact adjustment of delivery rate saves lubricant: 0.003~0.03 c.c./cycle.
2.Less lubricant – as much as needed, as little as possible: approximately consumption 2.5~5.0 c.c./hr.
3.Improving production efficiency: better machining performance due to better speed characteristics.
4.Long tool life: reducing the loss mainly when high-frequency machining is involved.
5.Cost effective: reducing consumption of energy and power and high efficiency with low wear and long service.
6.Intended use: ideal for use in the areas without electricity.
7.Greater safety and environment friendly at the workplace: no mist, clean air to breath.
8.Higher machining performance: better surface finish thanks to lower (friction-induced) temperature.

Information regarding system installation:
1.Add new lubricant without any foreign particles to avoid the damge in the systems. Used lubricant is banned.
2.Minimal quantity lubrication unit with up to 3 outlets and each distance up to 1 meter max. from the nozzle to the friction area.
3.Pneumatic pulse generator and electric solenoid must be away from any air or fluid polution and air venting outlet keeps clear.
4.Permissible viscosity range: 10~68 cSt.
5.Reservoir 2L and 800 c.c. available. Consult iSHAN for other sizes of capacity.
6.Pressurized air control valve with air filter and water separator is required to install and filter precision 3 μm.
7.Stardard nozzle of SP-00 is attached for delivery.

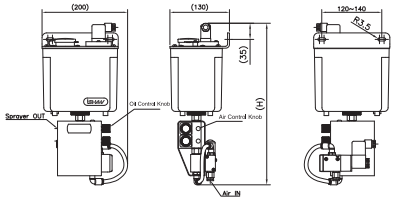
Model		SSP-MT (Solenoid)	SSP-MT
Number of Outlet		1~3	
Air Inlet		Ø8 (Air)	
Outlet Diameter	Oil	Ø4 (Oil)	
	Air	Ø8 (Air)	
Reservoir		2L	800c.c.
Discharge (c.c./cycle)		Approx. 0.003 ~ 0.03 (Adjustable)	
Cycle Number (Sec.)		Approx. 5~20 (Adjustable)	
Viscosity (cSt)		10 ~ 68	
Air Operating Pressure (kgf/cm²)		3 ~ 8	
Air Flow Adjustable		O	
Oil Refilling Filter		O	
Solenoid		O (DC24V)	X
Float Switch		O	X



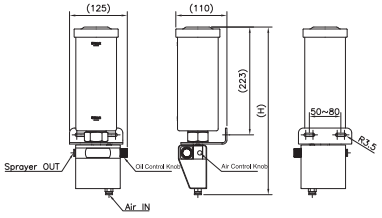
SSP-MT2 2L



SSP-MT1 800 c.c.



SSP-MT (2L)



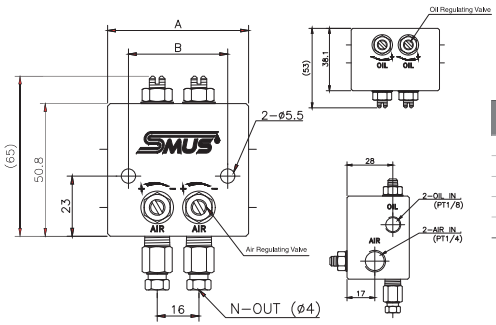
SSP-MT (800cc)

Distributor and Sprayer for Oil + Air Lubrication Systems

MIS-R



MIS-R-06



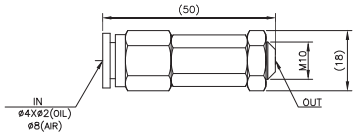
MIS-R-02

Number of Outlet	A	B
2	54	38
3	70	54
4	86	70
5	102	86
6	118	102

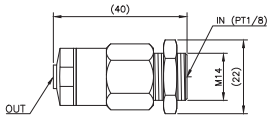




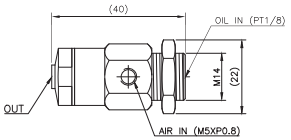




SP-00



SP-C



SP-E

MIS-R

1.Adjustable air + oil mixers with fine regulating vavles.
2.Oil and air flow volume can be adjusted to fine tune the spray to your specific needs.
3.Suitable to install resistant type lubricator with gear pump.
4.Design to reduce oil reverse flow for the stability of oil + air performance.
5.The regulating valves are adjusted and screwed in and fixed by washer.
6.Can be assembled up to a maximum of 6 outlets.
7.Ideal for the field of cooling and lubrication of machining.
8.Required compresed air supply : 3 to 7 kg/cm².
9.Installing SP series nozzles to improve oil + air performance.

SP-00

1.SP-00 is precise nozzle of micro lubrication spray.
2.Design of inside filter to lift the effective of lubrication spray.
3.Required compresed air supply : 3 to 7 kg/cm².
4.Standard tube connection : air inlet of quick connector, Ø8
5.Support mounting of M10-1.0 screw to fasten.
6.Averiage mircrodroplet size about 40μm.
7.Angle of spray : ca. 40°
8.Suitable to install SSP-MT pnumatic lubricator.
9.Great effective of atomization and cooling due to fast and forcely thrust.

SP-C

1.Bi-fluid nozzle ideal for small space of installation.
2.An air flow conducted through the coaxial tube at Ø8 is swirled at the lubricant outlet zone.(lubricant coming out from the capillary tube at Ø4).
3.Suitable to install SSP-MT pnumatic lubricator.
4.Support mounting of M14-1.0 screw to fasten.
5.To ensure stability of lubricant being transported separately and effective of tomization, the required operating pressure of lube pump must be min. 5 kgf/cm². (the value varies with different conditions)

SP-E

1.Bi-fluid nozzle ideal for small space of installation.
2.Individual air & fluid tubes design ideal for single line resistance lubrication systems or positive displacement injector lubrication systems for continuous or interval spray over small or large areas.
3.Suitable to install YET & YA series electric lubricators.
4.Support mounting of M14-1.0 screw to fasten.
5.To ensure stability of lubricant being transported separately and effective of tomization, the required operating pressure of lube pump must be min. 5 kgf/cm². (the value varies with different conditions)

Series

Because of continuous improvements, above specifications are subject to change without prior notice.

1. Dimension is in "mm".
2. Option of the Ø6 outlet is available.