

Air / Gas Connection Diagram (Gas cylinder → Machine)

Applicable models: FL-LCW (laser welding machine) / FL-CLC (laser cleaning machine) — SUNMAX LASER

Regulator

Inlet: W22-14 thread (right-hand), cap nut →
to gas cylinder

Outlet: Rc1/4

Reference model: Yutaka GF1-2506-RX-V



Socket coupler [for female-thread mounting]

Thread size: R1/4 (mates with Rc1/4)

Reference model: SM20-Steel



One-touch coupler [for urethane hose]

Mating hose size: OD 10 mm / ID 6.5 mm

Reference model: PN65-steel



Urethane hose, 10 cm

OD 10 mm / ID 6.5 mm

Reference model: U2-4-10×6.5-5



Reducing one-touch fitting

10 mm × 6 mm

Reference model: MPG10-6



Urethane tube → to the
machine

OD 6 mm / ID 4 mm

Reference model: UB0640-5-C



LCW / CLC

Machine-side connection: On the **CLC**, the 6 mm urethane tube connects to the filter regulator / mist separator on the machine body (SMC AC20D-02G-D — included with the CLC). On the **LCW**, insert the tube into the air inlet port (one-touch fitting) on the rear of the machine. The LCW is designed for gas operation, so the filter regulator unit is not included. This is an English translation of the Japanese original. In case of any discrepancy, the Japanese original shall prevail.



Assembly example on a gas cylinder