

date:

16.07.2009

# Safety Instructions

## for the use of CO<sub>2</sub> cylinders



### Hazards for Humans and Environment



Risk of liberating CO<sub>2</sub> due to leakage which may lead to asphyxiation (> 10 %)

Risk of high acceleration of the cylinder due to gas expansion in case of damage of the valve

### Protective Measures and Rules of Behaviour

Always **secure gas cylinders** against tumble over (e.g. with a chain)

Gas cylinders **not in use** should have the **regulator removed** and the **valve taped** by the safety cap

Empty gas bottles should be marked

#### **INSTALLATION**

**Check** that the regulator **sealing surface** and the connector threads are clean and undamaged

**Tighten** the **regulator** to the cylinder using a wrench

#### **USAGE**

**Close** the **regulator** by turning handle **(2)** **counter clockwise**

- counter clockwise, not clockwise as indicated on the regulator

**Open** valve on the **cylinder (1)** slowly **counter clockwise**

until inlet pressure **gauge (a)** shows **700-800 psi**

- when pressure drops to 400 psi the cylinder is close to be empty

Turn **regulator handle (2)** **clockwise** setting **operating**

**pressure** to **4.0 psi** as indicated by outlet **gauge (b)**

- NEVER exceed 4.3 psi: This will damage the valves of the incubator

**Open** the **final valve (3)** **clockwise** for accessing to the gas

#### **FINISH**

**Close** valve on the **cylinder (1)** by turning it clockwise

When **inlet pressure gauge (a)** is at its **minimum**, **close** the

**regulator handle (2)** by turning it **counter clockwise**

**Close** the **final valve (3)**



### In Case of Emergency (Infra Gas: 01800 221 9844)

In case of sudden gas release: Evacuate all non-essential personnel. Stop leak without risk.

Ventilate area. Inform the responsible: Dr. Peter Knauth (☎ 8354)

### First Aid



Remove casualty to fresh air and apply first aid when not breathing.

Eventually call to a physician. Inform the responsible Dr. Peter Knauth (☎ 8354)