NOTICE With the reduction lid, the pressing down is absolutely necessary to have the knife insert reaching its end position and locking into place. Do not use the gravity lid when filling the grinding container outside the device, since the knife insert in combination with the gravity lid will not lock during insertion!

⇨ Close the hood (**F**).

6.8 Closing the Grinding Container

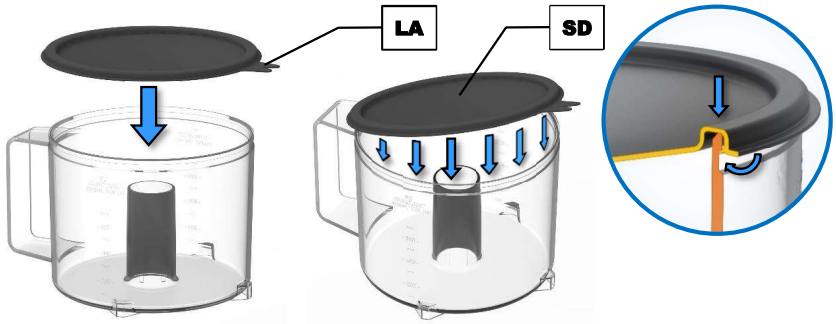

Fig. 5: Closing the grinding container with the standard lid

The standard lid (**SD**) fits all available grinding containers. The standard lid is clamped on the edge of the container and can be released again with the lug (**LA**).

⇨ Press the standard lid (**SD**) from the top diagonally across the opening of the grinding container (**MB**).

⇨ Check the tight clamping of the standard lid on the grinding container.

For the GM 200 various lids are available from the Retsch GmbH. The different lid-grinding container combinations allow for an optimum adjustment to the individual tasks.

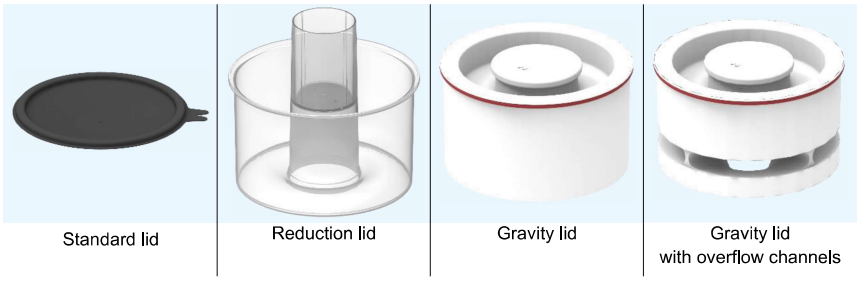

Fig. 6: Lids for the GM 200

NOTICE The feed volume depends on the properties of the sample material or the lid used. Do not exceed the recommended feed volume listed in the following table!

Type of lid	Application and feed volume
Standard lid	– for larger quantities of small-sized materials – feed volume: 300 ml to max. 700 ml – suitable for all grinding containers

Reduction lid	– for smaller quantities of small-sized materials – feed volume: max. 300 ml (grinding chamber reduction to 0.5 l) max. 200 ml (grinding chamber reduction to 0.3 l) – only for the plastic container
Gravity lid	– for smaller quantities of dry materials – feed volume: max. 300 ml – available in two versions: for the plastic container for the glass or stainless steel container
Gravity lid with overflow channels	– for smaller quantities of aqueous materials – feed volume: max. 300 ml – available in two versions: for the plastic container for the glass or stainless steel container

The reduction lid is held down by the hood (**F**) during the grinding process.

The gravity lid allows for an exact adjustment of the usable volume to the respective feed volume. It moves downwards during the grinding and optimises the grinding chamber volume.

NOTICE

N15.0053

Cryogenic grinding
Grinding with liquid nitrogen (LN_2)

– When grinding with liquid nitrogen, breakage of the grinding set and damage to the device can occur!

- **Grinding with liquid nitrogen is not permitted!**

6.9 Full-Metal Knife

NOTICE Only use a stainless steel grinding jar and an full-metal stainless steel cutter as cooling components for embrittling the sample material when grinding using dry ice! The plastic components on the standard blade insert and the plastic grinding jars may become brittle and break under these conditions.

Fig. 3: Stainless steel grinding jar with lid

NOTICE Always fill the grinding jar outside of the machine when grinding using dry ice. Do not leave the grinding jar in the machine; remove it again directly on completing the grinding process so as to avoid damage to the equipment.

Fig. 4: Correct filling when grinding using dry ice and sample

⚠ WARNING W5.0000

Cryogenic grinding
Grinding with liquid nitrogen (LN_2)

- When grinding with liquid nitrogen, breakage of the grinding set and damage to the device can occur!
- **Grinding with liquid nitrogen is not permitted!**