

Single Component Dispensers & Accessories

Format / Packaging

- **CARTRIDGE**

1. Cleanest and easiest format to use
2. 10oz (1/10 gal) and 30oz (1/4 gal) are the most popular volumes
3. Most expensive format per ounce
4. Require the least expensive tools to dispense



- **SAUSAGE**

1. Less clean and easier to use than cartridge
2. 20oz is the most popular volume
3. Less expensive per ounce compared to cartridge
4. Tools to dispense sausages are more expensive than those for cartridges



- **BULK**

1. Messiest and most difficult to get used to
2. 2 gal and 5 gal are the most popular volumes
3. Least expensive format per ounce
4. Used with 2-part urethanes and color matching
5. Tools to dispense bulk format are typically the most expensive



Dispensers – General Overview

1. Housing

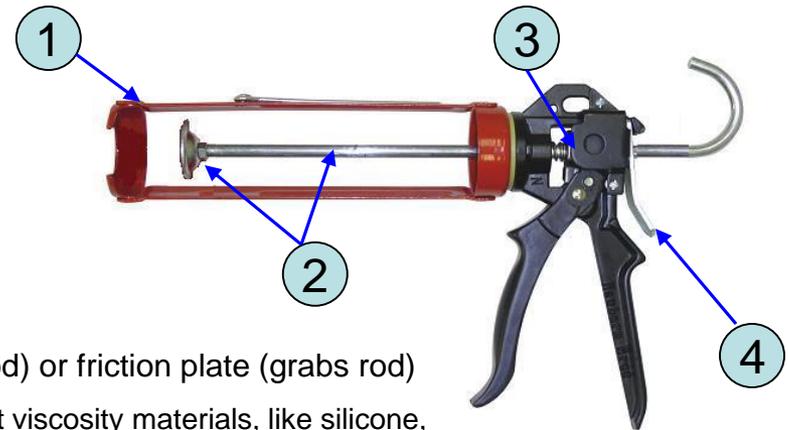
- Where the material is contained during extrusion

2. Drive Rod / Plunger

- Moves forward to engage and extrude the material

3. Drive Mechanism

- Pushes the drive rod forward, i.e., ratchet (toothed rod) or friction plate (grabs rod)
 - In general, a ratcheting mechanism is best for light viscosity materials, like silicone, latex or acrylic, while a friction plate/smooth rod combo works well with all materials, but especially well for high viscosity materials, like urethanes, epoxies or adhesives
- Power of drive mechanism referred to as thrust ratio - for example, 6:1 thrust ratio means for every 1lb of force generated on the trigger, there are 6lbs of force pushing to extrude the material
 - In general, a lower thrust ratio is usually best for light viscosity materials, while a higher thrust ratio works well for high viscosity materials



4. Constant Pressure vs. “Drip-free”

- Constant pressure dispensers have a thumb release, which releases the pressure on the drive rod
 - In general, works well for all materials, but especially well for higher viscosity materials, or when a continuous bead is desired
- “Drip-free” dispensers release pressure on the drive rod / plunger when the trigger is released (no need to press a thumb release)
 - Usually best for light viscosity materials or when a continuous bead is not desired

Dispensers - Details Based on Format

- **CARTRIDGE**

1. Drive rod / mechanism: ratchet or smooth (round, hex, square)
2. Drip-free or constant pressure
3. Frame (skeleton or cradle) or Barrel (fixed or rotates)
4. Extras: Spout/nozzle cutter and seal puncture tool

Note: There are a wide array of cartridge dispensers incorporating different housings, drive rods, drive mechanisms, pressure style (constant or drip-free), etc. Which one to choose depends on the material viscosity, application and mainly preference. The most popular with sealant, waterproofing and restoration specialists is the smooth-round rod, constant pressure, rotating barrel with a minimum thrust ratio of 12:1.



- **SAUSAGE**

1. Drive rod / mechanism: mostly smooth-round, but some ratchet if using bulk gun that converts
2. Constant pressure with thumb release
3. Thrust Ratio: Usually a higher thrust, minimum of 12:1
4. Barrel: Light weight aluminum
5. Extras: Can convert to bulk, accepts ladder hook which replaces T-handle so the gun can be hung

Note: Most sausage dispensers have smooth-round rods, aluminum barrels and incorporate constant pressure with thumb release. The main choice is which thrust ratio to use.



- **BULK**

1. Drive rod / mechanism: just like cartridge dispensers
2. Constant pressure with thumb release
3. Thrust Ratio: Range from 6:1 to 26:1
4. Barrel: Steel (rugged so if it is dropped or banged, it will keep its shape and maintain suction/vacuum)
5. Extras: Can convert to bulk, accepts ladder hook, has multiple thrust ratios

Note: Most bulk dispensers have smooth hex rods or smooth square rods. They also use steel barrels and incorporate constant pressure with thumb release. The main choice is which thrust ratio to use.



Key Accessories

- **Finishing Tools**

- Used to press sealant into joint and ensure good adhesion to substrate
- Several styles depending on preference or application



- **Cones / Nozzles**

- Used with sausage and bulk guns
- Several styles depending on preference or application



- **Follow Plates**

- Used to load bulk guns out of bulk pails (2 and 5 gallon)
- Best with silicone, which “skins” when exposed to air



Key Accessories (continued)

- **Mixers**

- Used to mix 2-part urethanes or color matching in bulk pails



- **Backer Rod Inserter**

- Used to insert backer rod into joints



- **Bucket Scrapers**

- Used to scrape the bottom and inside walls of bulk pails:
 1. Gets all material out when not using a follow plate
 2. Ensures full mixing of 2-part urethanes or color matching
- Scrape excess material off substrates or surfaces



- **Cutout Knives**

- Remove old sealant from joints, etc.
- Manual and electric versions available

