

MEFE
MITCHELL ENGINEERING
FOOD EQUIPMENT PTY LTD

Instruction Manual



Vertical Manual Sausage Filler

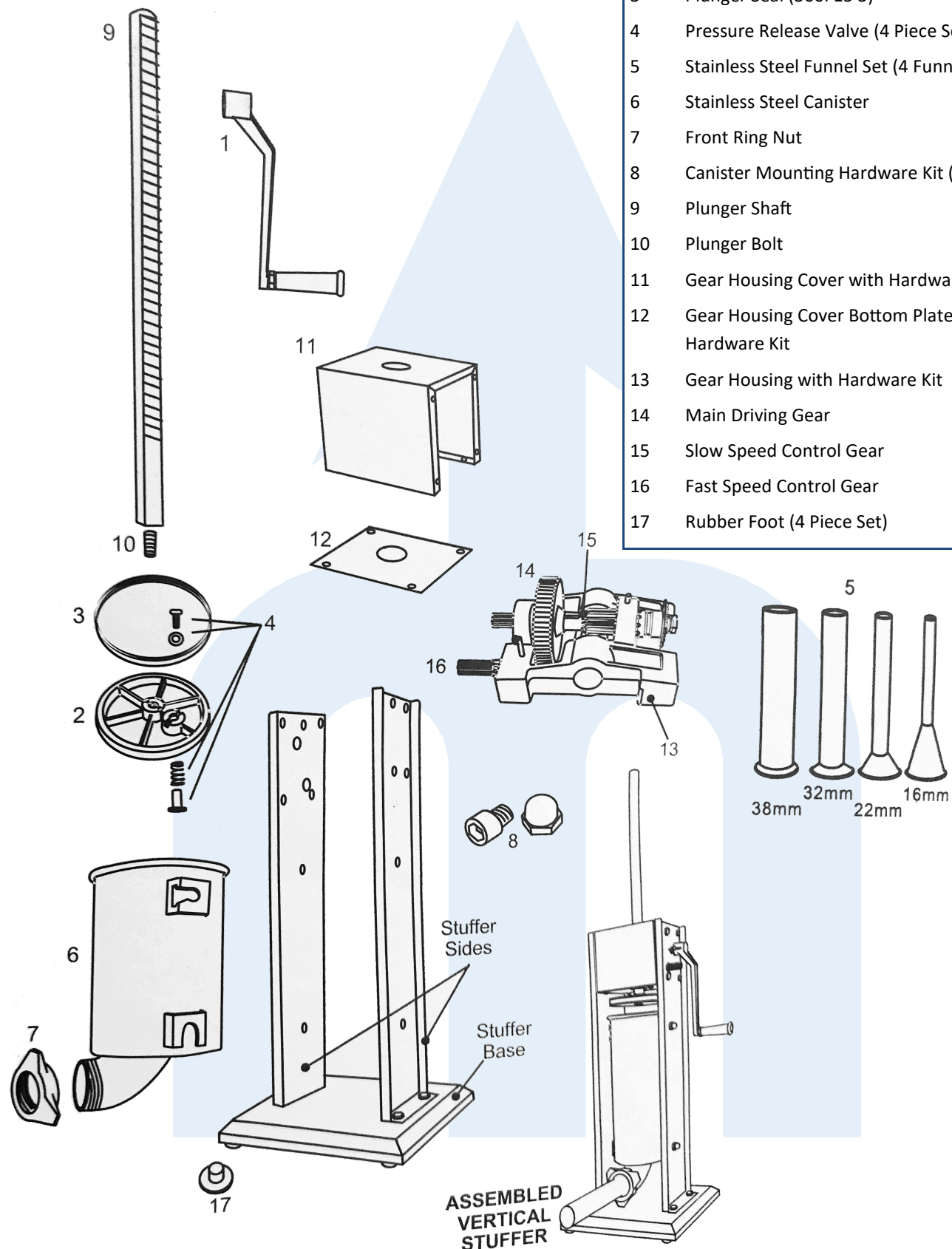
CAT 360F15

Revision 3

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1. Parts Diagram and Components List



Component List

No.	Part Description
1	Handle
2	Plunger
3	Plunger Seal (360F15 3)
4	Pressure Release Valve (4 Piece Set)
5	Stainless Steel Funnel Set (4 Funnels)
6	Stainless Steel Canister
7	Front Ring Nut
8	Canister Mounting Hardware Kit (4 Sets)
9	Plunger Shaft
10	Plunger Bolt
11	Gear Housing Cover with Hardware Kit
12	Gear Housing Cover Bottom Plate with Hardware Kit
13	Gear Housing with Hardware Kit
14	Main Driving Gear
15	Slow Speed Control Gear
16	Fast Speed Control Gear
17	Rubber Foot (4 Piece Set)

2. General Safety Rules



WARNING

READ AND FULLY UNDERSTAND ALL INSTRUCTIONS AND WARNINGS PRIOR TO USING THIS UNIT. YOUR SAFETY IS MOST IMPORTANT! FAILURE TO COMPLY WITH PROCEDURES AND SAFE GUARDS MAY RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE.

REMEMBER: YOUR PERSONAL SAFETY IS YOUR RESPONSIBILITY!

Check for damaged parts. Before using the Sausage Stuffer, check that all parts are operating properly and perform the intended functions. Check for binding of moving parts, mounting and any other conditions that may affect the operation.

Keep children away. Never leave the appliance unattended. This machine is NOT A TOY.

The manufacturer declines any responsibility in the case of improper use of the Stuffer. Improper use of this machine will void the warranty.

NEVER store or leave the sausage stuffer at a temperature lower than 0°C (32°F).

Repair must be done by an authorized dealer. Use only factory original parts and accessories. Modification of the Sausage Stuffer will VOID the warranty.

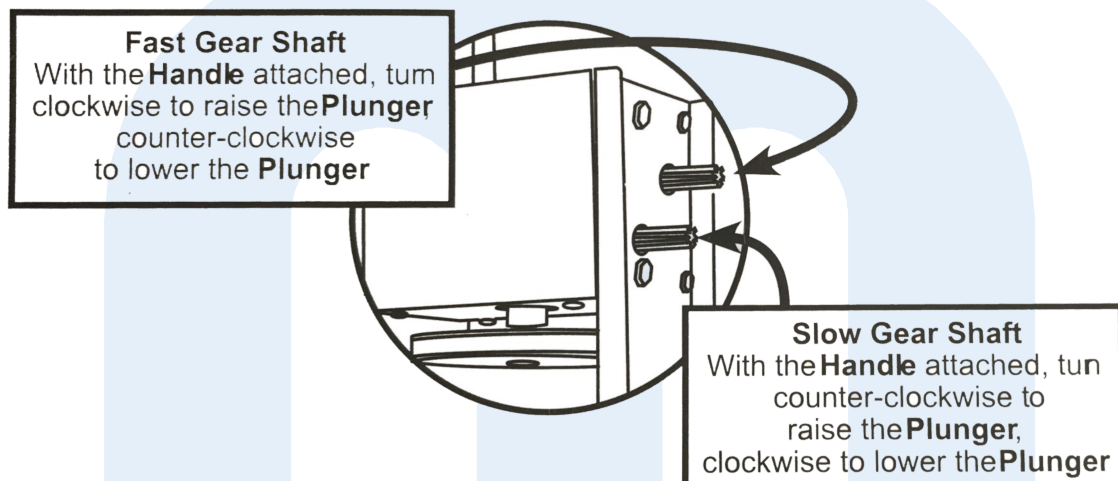
Be sure the Sausage Stuffer is stable during use. All four feet should be secure on a level surface. The machine should not move during operation.

NEVER operate the Sausage Stuffer with the Gear Housing Cover open or removed.

WEAR EYE PROTECTION! Everyday eye glasses are not safety glasses. Safety glasses conform to ANSI Z87.1 requirements. Note: Approved safety glasses have Z87 printed or stamped on them.

DO NOT use while under influence of drugs or alcohol.

3. Gear Movement



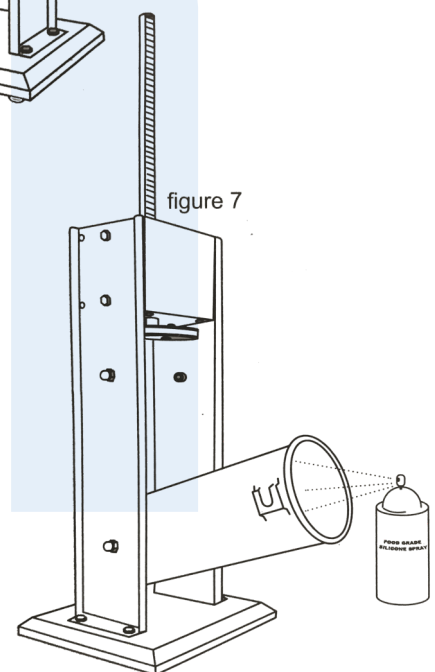
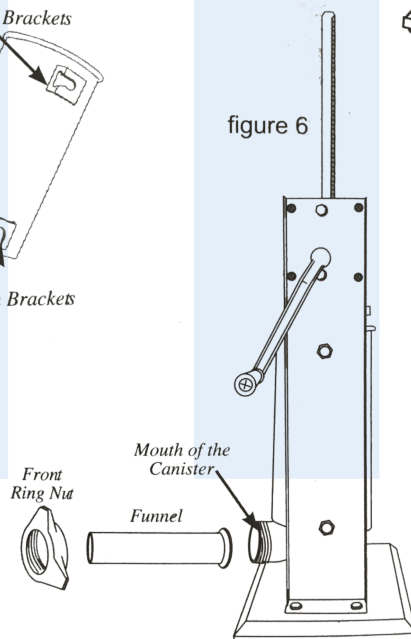
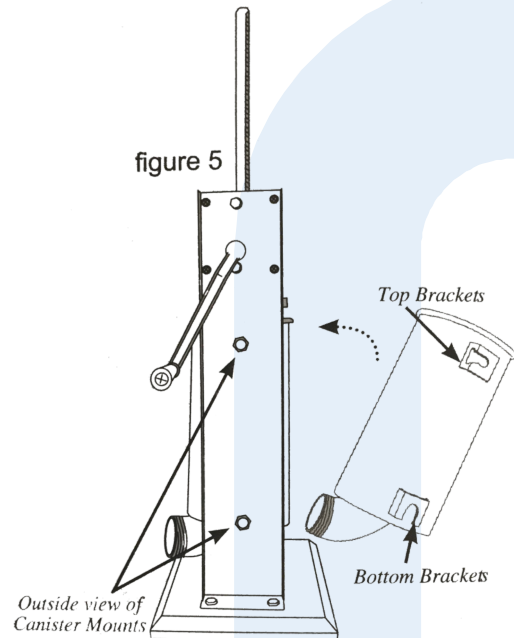
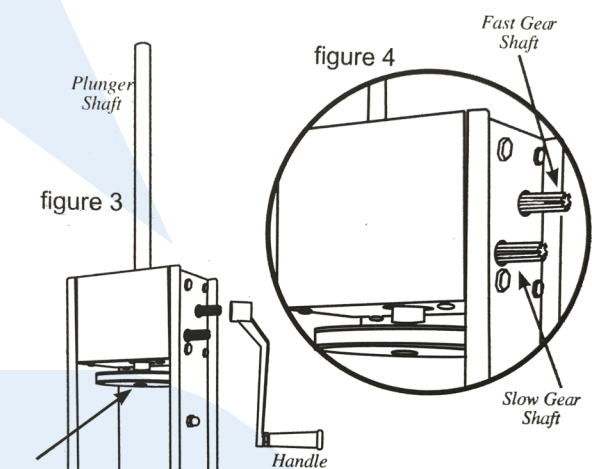
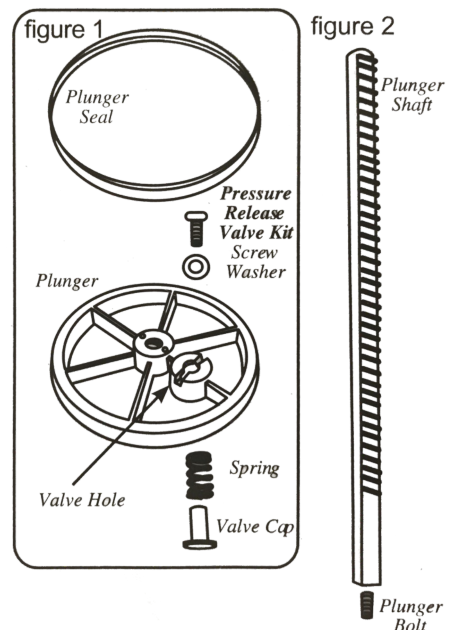
4. Assembly

Plunger Assembly

1. Slide the **Plunger Seal** onto the **Plunger** (figure 1).
2. Assemble the **Pressure Release Valve Kit** onto the **Plunger**. From the top of the **Plunger**, place the **Washer** onto the **Valve Hole**, then insert the **Screw** through the **Washer** and into the **Valve Hole**, then insert the **Spring** onto the end of the **Screw**, then place the **Valve Cap** onto the end of the **Screw** and twist to secure.
3. Screw the **Plunger Bolt** onto the **Plunger Shaft** (figure 2).
4. Place the assembled **Plunger** on the end of the **Plunger Shaft** (figure 3).

Stuffer Assembly

5. Attach the **Handle** by sliding it onto either the **Fast** of the **Slow Gear** (figure 4).
6. Crank the **Handle** to bring the **Plunger** to the top of the **Stuffer**.
7. Rest the **Canister's Bottom Brackets** onto the **Canister Mounts** inside the **Housing** of the **Stuffer**. Pivot the bottom of the **Canister** into the **Stuffer Housing**. Pivot the **Canister** fully into the **Stuffer Housing**, snapping the **Top Brackets** into the **Canister Mounts** (figure 5).
8. Insert the **Stuffing Funnel** of choice through the **Front Ring Nut**. Screw the **Front Ring Nut** and **Stuffing Funnel** onto the mouth of the **Canister** until snug. DO NOT overtighten the **Front Ring Nut**, as it may damage the **Funnel** (figure 6).
9. Thoroughly coat the inside of the **Canister** with a food-grade lubricant prior to use (figure 7).



5. Disassembly and Cleaning

1. Remove the Stuffing Funnel by unscrewing the Front Ring Nut, and pulling the Funnel out.
2. Turn the Handle until the Plunger comes up and out of the Canister.
3. Pivot the Canister outward, then pull the Canister up to remove the Canister from the Stuffer Housing.
4. Unscrew the Plunger from the Plunger Shaft. Disassemble the Pressure-Release Valve from the Plunger. Remove the Plunger Seal from the Plunger.
5. Wash all parts that have come in contact with meat in hot soapy water. **BE SURE TO CLEAN THE PARTS IMMEDIATELY AFTER USE.** Rinse and thoroughly dry all parts immediately. Sterilize as needed.
6. Fully lubricate the Shaft, Canister, Pressure-Release Valve components and the Front Ring Nut with a food-grade lubricant before and after each use.

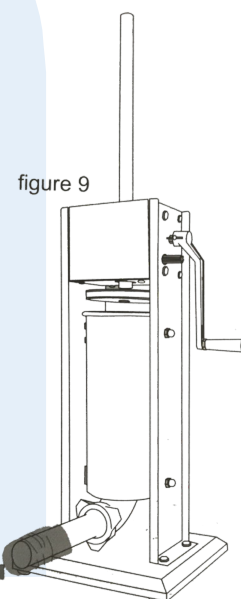
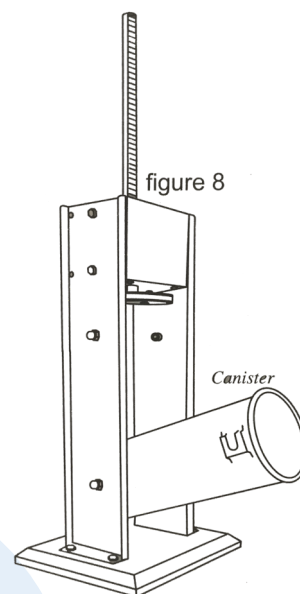
6. Stuffing Instructions



CAUTION!! When the Plunger is pulled out of the Canister, **RELEASE THE HANDLE SLOWLY!** Pressure or gravity could cause the Handle to spin back slightly and cause injury.

NOTE: Apply a food-grade lubricant to the inside of the Canister before filling with the meat mixture.

1. Tilt out the Canister.
2. Fill the Canister with the meat and seasoning mixture (figure 8)
3. Press the mixture down into the Canister firmly to release any trapped air.
4. Pivot the Canister back into the upright position and snap the Top Brackets onto the Canister Mounts.
5. Turn the Handle until the Plunger comes in contact with the meat and the mixture is ready to extrude out the end of the Stuffing Funnel.
6. Slip a casing on the end of the Stuffing Funnel until the entire casing has slid onto the Funnel (figure 9).
7. Tie, twist or hog ring the end of the casing to seal it.
8. Turn the Handle to extrude the mixture into the casing. For best results, apply pressure around the casing, close to the end of the Stuffing Funnel. This will hold the casing tight and will cause the mixture to pack firmly into the casing.
9. When the end of the casing has been reached, tie, twist or hog ring the end of the casing to seal the contents inside.



STUFFING TIPS: The following are suggestions to help reduce the resistance when stuffing with the 13mm Stuffing Funnel.

- A. Add water to the meat mixture—up to 1-1/2 cups (~0.4L) of water per every 5lb (2.3kg) of seasoned meat.
- B. Add 1/4 cup (60ml) of vegetable or olive oil per every 5 lb (2.3kg) of seasoned meat for better flow.

7. Recipes

U.S. VOLUME CONVERSIONS	
1 tsp	5 ml
1 Tbsp	15 ml
1/8 cup or 1 fl oz	30 ml
1/4 cup or 2 fl oz	60 ml
1/3 cup	80 ml
1/2 cup or 4 fl oz	120 ml
2/3 cup	160 ml
3/4 cup or 6 fl oz	180 ml
1 cup or 8 fl oz or 1/2 pint	240 ml
1 1/2 cup or 12 fl oz	350 ml
2 cups or 16 fl oz or 1 pint	475 ml
3 cups or 1 1/2 pints	700 ml
4 cups or 2 pints or 1 qt	950 ml
4 quarts or 1 gal	3.8 L

U.S. WEIGHT CONVERSIONS	
1 oz	28 g
1/4 lb or 4 oz	113 g
1/3 lb	150 g
1/2 lb or 8 oz	230 g
2/3 lb	300 g
3/4 lb or 12 oz	340 g
1 lb or 16 oz	450 g
2 lb	900 g

FRESH ITALIAN SAUSAGE—

MILD/HOT

5 tsp salt
3 tsp crushed hot peppers
2 tsp coarse black pepper
1 pint cold water
1 tsp sugar
1 tsp cracked fennel seed
10 lb boneless pork butt
2 tsp caraway seeds
1 tsp coriander
(Omit cracked fennel seed if making mild)

VENISON SAUSAGE

6 lbs venison
1/2 tsp cayenne pepper
2 tsp pepper
6 lbs lean pork
2tsp salt
sausage casings
1/2 tsp sage
1/2 cup honey

**** NOTE:** If grinding meat for sausage, grind the meat through the coarse grinding plate, add seasonings, then re-grind through a fine grinding plate.

8. Food Safety



CAUTION! It is important to follow the “Food Safety” guidelines outlined in this manual. For the most up to date instruction visit the [USDA website](https://www.usda.gov).

There are basic rules to follow when handling food.

COOK

It's crucial to cook food to a safe internal temperature to destroy bacteria that is present. The safety of hamburgers and other foods made with ground meat has been receiving a lot of attention lately, and with good reason. When meat is ground, the bacteria present on the surface is mixed throughout the ground mixture. If this ground meat is not cooked to at least 160°F to 165°F (71°C to 74°C), bacteria will not be destroyed and there is a good chance that you will get sick.

Solid pieces of meat like steaks and chops don't have dangerous bacteria like E. coli on the inside, so they can be served more rare. Still, any beef cut should be cooked to an internal temperature of at least 145°F (63°C) (medium rare). The safe temperature for poultry is 180°F (82°C) and solid cuts of pork should be cooked to 160°F (71°C). Eggs should be thoroughly cooked too. If you are making a meringue or other recipe that uses uncooked eggs, buy specially pasteurized eggs or use prepared meringue powder.

SEPARATE

Foods that will be eaten uncooked and foods that will be cooked before eating **MUST ALWAYS** be separated. Cross-contamination occurs when raw meats or eggs come in contact with foods that will be eaten uncooked. This is a major source of food poisoning. Always double-wrap raw meats and place them on the lowest shelf in the refrigerator so there is no way juices can drip onto fresh produce. Then use raw meats within 1-2 days of purchase, or freeze for longer storage. Defrost frozen meats in the refrigerator, not on the counter.

When grilling or cooking raw meats or fish, make sure to place the cooked meat on a clean platter. Don't use the same platter you used to carry the food out to the grill. Wash the utensils used in grilling after the food is turned for the last time on the grill, as well as spatulas and spoons used for stir-frying or turning meat as it cooks.

Make sure to wash your hands after handling raw meats or raw eggs. Washing hands with soap and water, or using a pre-moistened antibacterial towelette is absolutely necessary after you have touched raw meat or raw eggs. Not washing hands and surfaces while cooking is a major cause of cross contamination.

CLEAN

Wash your hands and work surfaces frequently when you are cooking. Washing with soap and warm water for at least 15 seconds, then dry with a paper towel.

CHILL

Chilling food is very important. The danger zone where bacteria multiply is between 40°F and 140°F (4°C and 6°C). Your refrigerator should be set to 40°F (4°C) or below; your freezer should be 0°F (-17°C) or below. Use chafing dishes or hot plates to keep food hot while serving. Use ice water baths to keep cold foods cold. Never let any food sit at room temperature for more than 2 hours –1 hour if the ambient temperature is 90°F (32°C) or above.

NOTE: Special consideration must be made when using venison or other wild game, since it can become heavily contaminated during field dressing. Venison is often held at temperatures that could potentially allow bacteria to grow, such as when it is being transported.

8. Sausage Information

MEAT SELECTION FOR SAUSAGE MAKING

Sausage making has evolved over many years and generations, and as a result there are countless types of sausage you can make using the basic ingredients of meat, fat and a few carefully blended spices. Following are a few simple guidelines that will help you make the best tasting sausage possible.

Any type of meat can be used making sausage: pork, beef, bison, moose and caribou, even antelope make great sausage. It is important when preparing venison or other red game meats to trim all the fat from the meat, as red game tallow will turn rancid in as few as five days. Replace the fat with either pork or beef fat, depending on the type of product you are making, at a ratio of 1 pound (0.5kg) of fat for every 4 pound (1.8kg) of game meat.

The fat content of your sausage will affect the taste, texture, cooking characteristics and shelf life of your product. Most commercially made sausage has a fat content of about 20%. Using less than 12% fat will result in a very dry tasting sausage, while using more than 20% may result in a sticky flavourless sausage that will be difficult to cook.

CURING

It is important to properly cure meats to preserve meat and poultry, and to destroy undesirable microorganisms on the meat surfaces that cause spoilage and food born illness. There are many steps that help in the process, including smoking, cooking, drying, chilling and the addition of cure ingredients. The oldest means of accomplishing this is by introducing salt into the meat. The resistance of bacteria to salt varies widely among different types of bacteria. The growth of some bacteria is inhibited by salt concentrations as low as 3%, e.g., Salmonella, whereas other types are able to survive in much higher salt concentrations, e.g., Staphylococcus. Fortunately, the growth of many undesirable organisms normally found in cured meat and poultry products is inhibited at low concentrations of salt.

Modern curing is based on Nitrates and is very scientific. The best way to ensure proper curing is to purchase one of the many commercially available curing agents from either a grocery store or your local butcher. A very common cure is Prague Powder, which is available in two types (#1 and #2).

CASING

There are many different types of casings available, the right choice depends on personal preference as well as the type of sausage you wish to make. For most sausages, your choices are natural or collagen. Don't let the names fool you; collagen casings are not a synthetic product. They are made from beef skin and other tissues. Collagen casings are uniform in size and texture and require almost no preparation. "Natural" casings are the intestines of lamb, sheep, hogs or beef. They are less uniform in size and require substantial preparation. For those reasons, more than 75% of commercially made sausage is made with collagen casing. There are also fibrous non-edible casings that are used for some varieties of smoked sausages and bolognas.

TYPES OF SAUSAGE

Most sausages fall into one of four categories: Fresh, Smoked, Cooked or Dried. All sausages, except dried, require refrigerated storage. There is also a sub-category of uncooked smoked sausages.

Among the fresh and uncooked smoked sausages, you will find such flavours as kielbasa or Polish sausage, Italian sausage, breakfast sausage and many others. Both fresh and uncooked smoked sausage require cooking before eating and also require refrigerated storage.

Smoked and cooked sausages include salami, bologna, the ever-popular hot dogs and many others. Proper smoking requires a smokehouse or smoker. These can be simple home-built structures made from metal drums or even old refrigerators or they can be elaborate manufactured units. Most smoked sausages are warmed before serving. Many people think that a smoked sausage will last much longer without spoilage, but this is not true. Smoked sausages should be treated the same as fresh sausage in terms of storage.

Dried sausages require the longest processing time, as they are air dried over a long period of time. Some types of dry sausages are pepperoni, prosciutto and a variety of ham products, just to name a few. The conditions under which the meat is dried are very exacting; temperature, time and humidity must all be carefully monitored for a safe and delicious product.

STORAGE

It is important to remember that sausage will lose its flavour the longer that it is stored. It is recommended that you only make as much sausage as you will need for 4-6 weeks. Even frozen sausage will begin to lose flavour noticeably after 6 weeks. Frozen sausage should be thawed slowly in the refrigerator before cooking or serving. Quick thawing of the product will degrade the taste as well.