

# PRESTO®

## Pressure Canner and cooker

### Instructions and Recipes

Estas instrucciones también están disponibles en español. Para obtener una copia impresa:

- Descargue en formato PDF en [www.GoPresto.com/español](http://www.GoPresto.com/español).
- Envíe un correo electrónico a [contact@GoPresto.com](mailto:contact@GoPresto.com).
- Llame al 1-800-877-0441, oprima 2 y deje un mensaje.



For more canning information and recipes, visit [www.GoPresto.com/recipes/canning](http://www.GoPresto.com/recipes/canning)

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Form 72-720H

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This is a  Listed appliance. The following important safeguards are recommended by most portable appliance manufacturers.

## IMPORTANT SAFEGUARDS

To reduce the risk of personal injury or property damage, basic safety precautions should always be followed, including the following:

1. Read all instructions. Improper use may result in bodily injury or property damage.
2. Always check the vent pipe before use. Hold cover up to light and look through vent pipe to be certain it is clear.
3. Always check the air vent/cover lock to make sure it moves freely before use.
4. Do not fill pressure canner over  $\frac{2}{3}$  full when using for pressure cooking. For soup, grains, and dry beans and peas which expand during cooking, do not fill canner over  $\frac{1}{2}$  full. Overfilling may cause a risk of blocking the vent pipe and developing excess pressure; see food preparation instructions.
5. Do not pressure cook applesauce, cranberries, rhubarb, cereals, pasta, split peas, dried soup mixes, or any dry beans and peas which are not listed in the chart on page 30. These foods tend to foam, froth, and sputter and may block the vent pipe, overpressure plug, and air vent/cover lock.
6. This appliance cooks under pressure. Improper use may result in scalding injury. Make certain pressure canner is properly closed before operating; cover handles must be above the body handles; see “How to Pressure Can foods” instructions.
7. Do not place the pressure canner or attempt to pressure can or cook in a heated oven.
8. **CAUTION!** Do not use pressure canner on any outdoor LP gas burner or a gas range over 12,000 BTU’s. Doing so may result in damage to the pressure canner and/or property damage and personal injury.

9. Extreme caution must be used when moving a pressure canner containing hot liquids. Do not touch hot surfaces. Use the handles or knobs.
10. Do not open canner until internal pressure has been completely reduced, air vent/cover lock has dropped, and no steam escapes when the pressure regulator is removed; see “How to Pressure Can foods” instructions.
11. To ensure safe operation and satisfactory performance, replace the overpressure plug every time you replace the sealing ring or sooner if it becomes hard, deformed, cracked, worn, or pitted. It is recommended that the sealing ring and overpressure plug be replaced at least every three years. Use only genuine Presto® replacement parts.
12. Close supervision is necessary when the pressure canner is used near children. It is recommended that children not use the pressure canner.
13. When operating pressure is reached, gradually lower the heat to maintain the pressure. If the pressure regulator is allowed to rock vigorously, excess steam will escape, causing more liquid to evaporate. Food will scorch and the canner may go dry, resulting in damage to the canner.
14. Do not use this pressure canner for other than intended use.
15. Do not use this pressure canner for pressure frying with oil.

## SAVE THESE INSTRUCTIONS

THIS APPLIANCE IS FOR HOUSEHOLD USE ONLY.

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### Getting Acquainted

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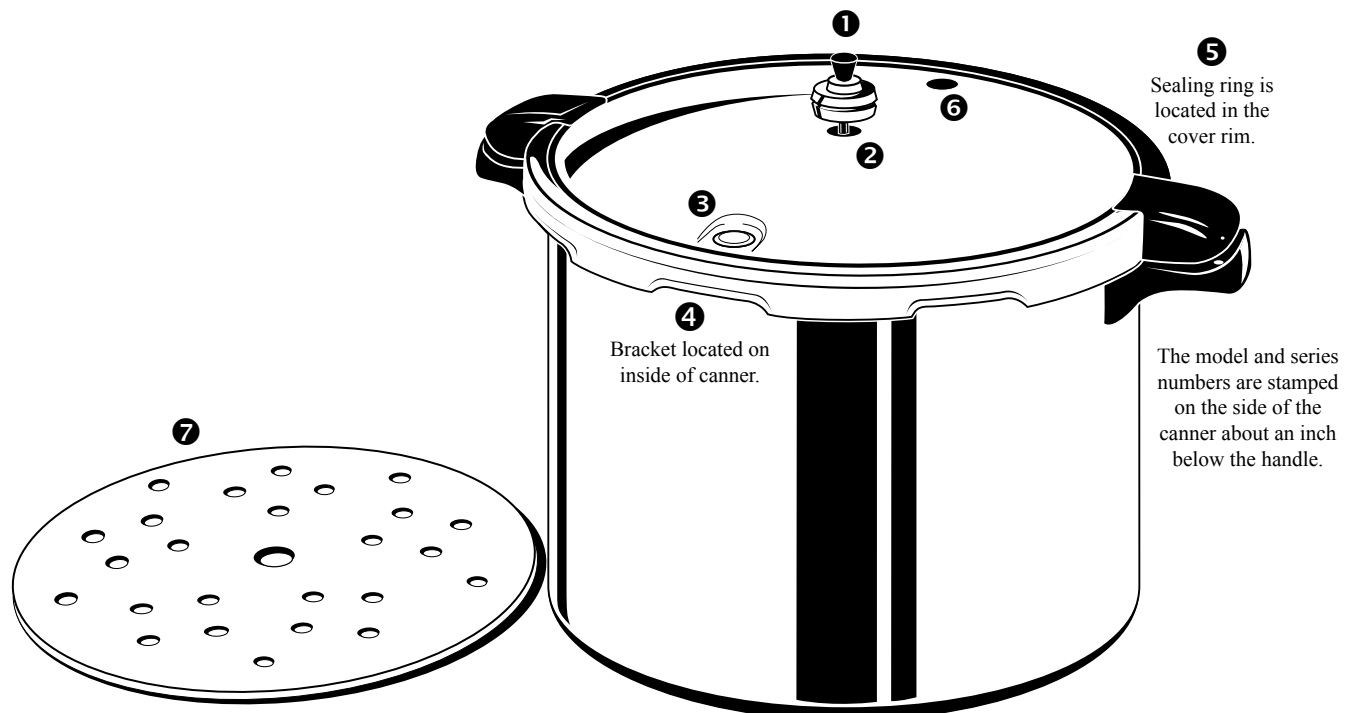
Your canner is a special, large capacity pressure vessel designed for home canning a wide variety of fruits, vegetables, meats, poultry, fish, and seafood.

The canner uses pressure to achieve the high temperatures required for safely processing foods while canning. The United States Department of Agriculture (USDA) recommends the pressure canner as the only safe method for canning low-acid foods: vegetables, meats, poultry, fish, and seafood.

The canner may also be used to pressure cook many of your favorite foods in larger quantities than can be prepared in a conventional size pressure cooker. Pressure cooking saves time and energy by cooking foods 3 to 10 times faster than ordinary methods. Pressure cooking preserves flavor and nutrients and tenderizes tougher cuts of meat. Information for pressure cooking begins on page 23.

Become familiar with the various parts shown on page 3. Do not attempt to use your pressure canner before reading the instructions on pages 6–7.

**Fig. A**



### ❶ 3-Piece Pressure Regulator

**Note:** The pressure regulator is packed in the top foam filler of the carton in a bag identified with the words “Pressure Regulator Enclosed.”

The pressure regulator controls and maintains the pressure in the canner. The regulator will begin rocking once the pressure canner reaches the set pressure.

The regulator can be adjusted to maintain three pressure levels (5, 10, or 15 pounds). Completely assembled, the regulator will maintain 15 pounds pressure. When one ring is removed, the regulator will maintain 10 pounds pressure. With both rings removed, 5 pounds pressure will be maintained (Fig. B).

To remove the weight rings, hold the completely assembled regulator between the first two fingers of your hand. Place your thumb on top of the knob and press down to force the weight rings over the lock ring.

To replace the weight rings, push them down over the lock ring at the top of the regulator body.

### ❷ Vent Pipe

The vent pipe is the primary pressure relief valve and will release pressure in excess of the set pressure. The pressure regulator sits loosely on the vent pipe.

### ❸ Air Vent/Cover Lock

The air vent/cover lock automatically vents or exhausts air from the canner and acts as a visual indication of pressure in the canner. The small gasket must be in place for the air vent/cover lock to seal completely.

### ❹ Locking Bracket

The locking bracket on the inside of the canner body engages with the air vent/cover lock to prevent the cover from being opened when there is pressure in the unit.

### ❺ Sealing Ring

The sealing ring fits into the canner cover and forms a pressure-tight seal between the cover and body during canning and cooking.

### ❻ Overpressure Plug

The black, rubber overpressure plug is located in the canner cover. It will automatically pop out and release steam in case the vent pipe becomes blocked and pressure cannot be released normally through the vent pipe.

### ❼ Canning-Cooking Rack

The canning-cooking rack is placed in the bottom of the canner to hold jars off the bottom of the unit while canning. Always use the rack when canning.

When cooking, the rack is used for steaming foods. It can also be used to hold foods such as vegetables out of the cooking liquid, allowing several foods to be cooked at the same time without an intermingling of flavors. When it is desirable to blend flavors, do not use the rack.

### Replacement Parts

Use only genuine Presto® replacement parts. These parts are available at most hardware stores or they can be ordered directly from Presto; see “Consumer Service Information” on page 35. When ordering parts, please specify the seven digit model number found stamped on the side of the canner body.

Fig. B



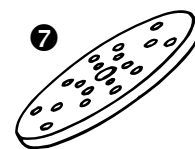
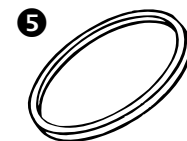
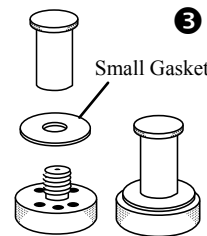
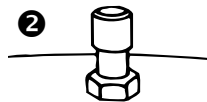
15 pounds pressure



10 pounds pressure



5 pounds pressure



**CAUTION!** Use only the cover that came with the canner when new. Using a different cover may prevent the locking mechanisms from operating properly and may result in property damage and/or personal injury.

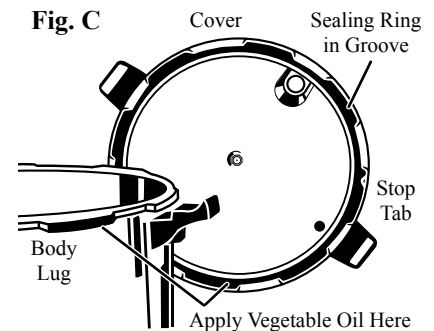
**NOTICE:** Portable burners may not be suitable for canning. They may not have enough wattage to pressurize a fully loaded canner and/or they may not be able to support the weight of a fully loaded canner. Refer to the owner’s manual for your portable heat source for weight restrictions and other information.

The 16-quart canner weighs 15 pounds when filled with 3 quarts of water. When used for pressure canning, a fully loaded canner will weigh up to 35 pounds. When used for the boiling water method, it will weigh up to 41 pounds.

The 23-quart canner weighs 16 pounds when filled with 3 quarts of water. When used for pressure canning, a fully loaded canner will weigh up to 46 pounds. When used for the boiling water method, it will weigh up to 52 pounds.

## ***Before Using the Canner for the First Time***

1. Remove the sealing ring by simply pulling it from the sealing ring groove.
2. Wash the cover, the body, and the sealing ring with hot, soapy water to remove any manufacturing oils. Rinse all parts with warm water and dry.
3. Replace the sealing ring in the sealing ring groove, making certain to fit the ring under the stop tab located on the inside rim of the cover (Fig. C).
4. The sealing ring is prelubricated. The cover should open and close easily when following step 8 on page 6. If necessary, to help make the cover easier to open and close, a very light coating of vegetable oil may be applied to the sealing ring and underside of the body lugs (Fig. C).
5. Check the air vent/cover lock in the canner cover to be sure the two pieces are screwed together securely. If loose, tighten with fingers until a point of resistance is met (finger tight); see page 9.



**Helpful Hint:** To help yourself understand the operation of the pressure canner, pour 4 cups of water into the canner and follow the step-by-step instructions beginning with step 7 on page 6. For actual usage of the canner, follow the complete instructions beginning on page 6 for pressure canning and on page 23 for pressure cooking.

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## **Canning Basics**

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### ***Introduction***

The key to successful canning is to understand the acidity and spoilage factor of the food you wish to can, as well as the acceptable canning methods to process those foods. There are invisible microorganisms present all around us. Fruits, vegetables, and meat contain these microorganisms naturally and yet they are not a problem unless food is left to sit for extended periods of time, causing food spoilage. This is nature's way of telling us when food is no longer fit to eat.

There are four basic agents of food spoilage: enzymes, mold, yeast, and bacteria. Canning interrupts the natural spoilage cycle so food can be preserved safely. Molds, yeast, and enzymes are destroyed at temperatures below 212°F, the temperature at which water boils (except in mountainous regions). Therefore, boiling water processing is sufficient to destroy those agents.

Foods naturally high in acid and acidified foods having a pH of 4.6 or less may be safely processed using the boiling water method.

***Step-by-step instructions for the boiling water method begin on page 21.***

Bacteria, however, are not as easily destroyed. The bacteria *Clostridium botulinum* produces a spore that makes a poisonous toxin which causes botulism. This spore is not destroyed at 212°F. In addition, the bacteria thrive on low-acid foods in the absence of air. According to the USDA, pressure canning is the only safe method of processing low-acid foods (vegetables, meats, poultry, fish, and seafood).

In pressure canning, some of the water in the pressure canner is converted to steam, creating pressure within the canner. As the pressure increases, the temperature increases: 5 pounds pressure—228°F, 10 pounds pressure—240°F, 15 pounds pressure—250°F. This pressurized heat destroys the potentially harmful bacterial spores. ***Step-by-step instructions for the pressure canning method begin on page 6.***

As jars cool after processing (by either the boiling water or pressure canning method) a vacuum is formed, sealing food within and preventing any new microorganisms from entering and spoiling the foods.

### ***Before Beginning***

#### **Selecting a recipe**

To produce home canned food that is safe for storage at room temperature, it is necessary to use a tested canning recipe. Recipes that have been handed down through the years or those found on the web are oftentimes unreliable and usually do not include scientifically tested processing procedures that are vital to a successful and safe canning project. Canning information published prior to 1994 may be incorrect and could pose a serious health risk.

A tested canning recipe has been evaluated to determine the accurate processing method (boiling water canning or pressure canning) as well as the processing time. Always choose recipes from a reliable resource, such as the National Center for Home Food Preservation ([nchfp.uga.edu](http://nchfp.uga.edu)), your local Cooperative Extension Service, or this instruction book.

#### **Selecting Jars**

Glass home canning jars, sometimes referred to as Mason jars, are the only jars recommended for safe home canning. They are available in standard sizes (half-pint, pint, and quart) and will withstand the heat of a pressure canner, time after time. The diameter of Mason jars may vary from one manufacturer to another.

Before filling Mason jars, test load your canner. It may be necessary to double-deck pint and half-pint jars to reach the maximum capacity of your canner, as indicated in the chart below. To double-deck, stagger the jars by placing one jar on top of two. However, if using the boiling water method, do not double-deck jars. Jars may touch.

The canning rack which accompanied your pressure canner must be placed on the bottom of the canner to prevent jar breakage. Although it is not necessary to use a rack between layers of jars, if you wish to do so, a rack can be ordered from the Presto Consumer Service Department; see page 35.

### *Maximum Mason Jar Capacity*

For 16-quart canners with model numbers beginning with 0174		For 23-quart canners with model numbers beginning with 0178	
Regular jars	Wide mouth jars	Regular jars	Wide mouth jars
13 half-pints	16 half-pints*	26 half-pints*	16 half-pints*
10 pints	8 pints	20 pints*	16 pints*
7 quarts‡	7 quarts‡	7 quarts	7 quarts

\* It will be necessary to double-deck jars to achieve the maximum capacity. To double-deck, stagger the jars by placing one jar on top of two. Jars may touch. For boiling water method, do not double-deck jars.

‡ The 16-quart canner is not large enough to use the boiling water method with quart jars.

### **Canning Lids and Bands**

The two-piece vacuum cap (lid and band) is the recommended closure for home canning. It consists of a flat metal lid with a sealing compound on the outer edge and a separate metal screw band that secures the lid during processing. The flat lid is for one use only while the bands can be used repeatedly if they remain in good condition. Do not use dented or rusty bands. Use only jars, lids, and screw bands in perfect condition so an airtight seal may be obtained.

### **Measuring Headspace**

Headspace is the air space between the top of the food or its liquid and the lid. Leaving too much headspace can result in underprocessing because it may take too long to release the air from the jar. Leaving too little headspace will trap food between the jar and the lid and may result in an inadequate seal. As a general rule, allow ½-inch headspace for fruits and tomatoes and 1-inch for vegetables, meats, poultry, and seafood. All recipes will indicate the amount of headspace necessary for the food being canned.

### **Removing Air Bubbles**

After food has been packed in jars, any air bubbles must be removed. Trapped air bubbles may rise to the top during processing, causing too much headspace. Work quickly to remove air bubbles that have become trapped between pieces of food by moving a clean, nonmetallic spatula around the jar between the food and side of the jar.

### **Preparing Jar Rims and Adjusting Lids**

Immediately wipe the jar rims with a clean, damp cloth to remove any residue. Any food particles, such as seeds, grease, or syrup, on the rim of the jar may prevent the jar from sealing. Place the flat lid on the rim of the jar, making sure the sealing compound is touching the glass. Position a band over the lid and, using your fingertips, screw it onto the jar just until resistance is met. Do not overtighten as air must release from the jars during processing and cooling.

### **Other Special Canning Tips**

To prevent water stains on jars, add 2 tablespoons white vinegar to water in canner.

## ***After Processing***

### **Cooling Jars**

After processing, remove jars to a dry towel on countertop away from drafts. Leave 1 to 2 inches of space between jars to allow for even cooling. Do not retighten bands. Do not invert jars or cover with a cloth. Allow jars to cool naturally. Check seals no earlier than 12 hours, but no later than 24 hours. Bubbles often appear in the jar after removal from the canner because food is still boiling in the jar. Ordinarily bubbles do not appear once the product has been allowed to thoroughly cool.

### **Testing Seals and Storing Canned Food**

After jars have cooled a minimum of 12 hours, but no more than 24 hours, test the jar lids to be sure a vacuum seal has formed. Press down on the center of the flat lid to determine if it is concave (stays down when pressed). Remove the screw band and gently try to lift the lid with your fingertips. If the center does not flex up and down and you cannot lift the lid off, the lid has a good seal. Wipe off any food residue from jars and lids. Date and label jars. Store in a cool, dark, and dry place.

If a jar does not seal, the food can be refrigerated and used within two to three days. Other options include freezing the food or reprocessing for the full amount of time per the canning recipe. If choosing to reprocess, remove the lids and reheat the food and/or liquid. Pack food into clean, heated jars. Remove air bubbles and clean jar rims. Position new lids on jars and secure with bands. **If more than 24 hours have elapsed since completion of canning and the seal is faulty, the food is no longer safe. Discard at once.**

## Detecting Spoilage

If up-to-date instructions and processing times and pressures are followed carefully, spoilage is uncommon. However, it is still recommended to check for signs of spoilage before tasting any canned food. Check for a broken seal, gassiness when opening, mold, sliminess, cloudiness, or unpleasant odors. **If any of these signs are present, discard the food.**

As a safeguard against using canned low-acid and tomato products which may be affected with spoilage that is not readily detected, boil food 10 minutes for altitudes up to 1,000 feet above sea level. Extend the boiling time by 1 minute for each 1,000 foot increase in altitude. Many times odors that cannot be detected in the cold product will become evident by this method. **If, after boiling, food does not smell or look right, discard it without tasting.**

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## How to Pressure Can Foods

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**Important:** Do not attempt to use your canner before carefully reading these instructions. Follow the step-by-step instructions for pressure canning starting below and prepare food according to the processing procedures in the specific recipe.

1. Be sure your canner is thoroughly cleaned and working properly.
  - Check the sealing ring and overpressure plug. Replace both parts at least every 3 years, but immediately replace them when they become hard, deformed, cracked, worn, pitted, or unusually soft. Make sure the overpressure plug is seated properly in the cover (Fig. M, page 9)
  - Check the white gasket on the air vent/cover lock. It should be intact, without cracks or tears. Be sure the two metal parts of the air vent/cover lock are securely fastened (Fig. N, page 9).
2. If canning on an electric smooth-top range, refer to instructions for canning in the owner's manual for your range. Always clean the stovetop with a cooktop polishing cream, according to the range manufacturer's instructions, before and after canner use.

In addition, to avoid scratching the ceramic glass surface of the smooth-top range, check the bottom of the canner to be sure it is clean and free of debris and does not have any nicks or scratches.

3. Check Mason jars for nicks, cracks, and sharp edges. Check screw bands for dents or rust. Use only jars, lids, and screw bands in perfect condition so an airtight seal may be obtained. Wash and rinse jars, lids, and screw bands. Pour hot water into jars and set aside until needed. Follow closure manufacturer's directions for preparing lids.
4. Select fresh, firm food. Sort food according to size. Clean food thoroughly. Prepare according to specific recipe. Fill hot jars promptly with food and liquid to recommended level. Allow ½-inch headspace for fruits and tomatoes. Most vegetables and meats require 1-inch headspace due to expansion during processing.

Work out air bubbles with a clean, nonmetallic spatula. Wipe sealing edge clean with a damp cloth. Adjust screw bands according to closure manufacturer's directions.

5. **Place 3 quarts of hot water** and the canning rack in the canner (Fig. D). For hot packed foods, the water can be heated to 180°F, which is not quite boiling. No matter how many jars are being canned, 3 quarts of water are needed for pressure canning.

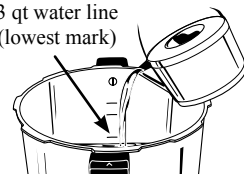
When processing for times in excess of 100 minutes (1 hour 40 minutes), always add an additional quart of water. To prevent water stains on jars, add 2 tablespoons white vinegar to water in canner. Always use canning rack as jars may break if set directly on bottom of canner.

6. Place the jars on the canning rack immediately after each jar is filled.
7. Hold the cover up to the light and look through the vent pipe (Fig. E) to be certain it is clear before placing the cover on the canner. If it is clear, proceed to step 8. If it is blocked, clean the vent pipe and vent pipe nut with a small brush or pipe cleaner (Fig. F and Fig. G).
8. Place the cover on the canner, aligning the **V** mark on the cover with the inverted **V** mark on the body handle (Fig. H). Press down on the cover handles to compress the sealing ring and turn the cover in the direction indicated to close (clockwise) until the cover handles are above the body handles. Do not rotate the cover beyond this point.
9. Position the canner on a level burner and range only. Use on a tilted burner or range may interfere with the operation of the pressure regulator.

For electric coil and smooth-top ranges, use the element that most closely matches the 8-inch diameter of the canner bottom. This is the portion of the canner bottom which comes in contact with the element. Do not use on any outdoor LP gas burner or a gas range over 12,000 BTU's.

**Fig. D**

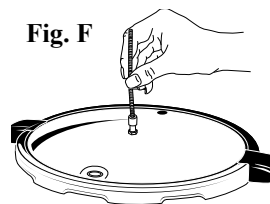
3 qt water line  
(lowest mark)



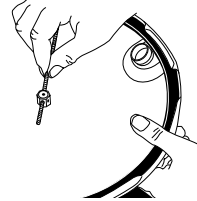
**Fig. E**



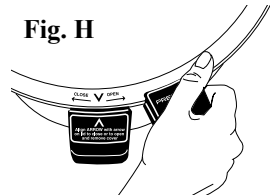
**Fig. F**



**Fig. G**



**Fig. H**



**CAUTION!** Using too large of an element or over 12,000 BTU's may soften the canner and cause the bottom to warp. It may also result in property damage and/or personal injury.

Using a high setting, heat the pressure canner until a steady flow of steam can be seen, heard, or felt coming from the vent pipe (Fig. I). Exhaust air from the canner for 10 minutes by allowing steam to flow from the vent pipe. Reduce heat, if necessary, to maintain a steady, moderate flow of steam.

10. Assemble the pressure regulator (Fig. J) to register the preferred canning pressure; see page 3 for assembly instructions. See the specific canning recipe to determine how many pounds pressure to use.
11. Place the pressure regulator on the vent pipe. If heat was reduced for exhausting, adjust to a relatively high setting and heat canner. As pressure develops in the canner, the air vent/cover lock will lift and lock the cover on the canner.

The air vent/cover lock is a visual indicator of the presence of pressure (Fig. K). When it is in the up position, there is pressure in the canner; when it is in the down position, there is no pressure in the canner. Continue heating the canner until the pressure regulator begins to rock.

12. Processing time begins when the regulator begins to rock gently. Adjust heat to maintain a slow, steady rocking motion. Visit [www.GoPresto.com/ppc/rocking](http://www.GoPresto.com/ppc/rocking) to see a video of a regulator rocking.

13. At the end of the processing time, turn the burner off and remove the canner from the heat source.  
**NOTICE:** Lift the pressure canner to remove it from the burner. Sliding cookware may leave scratches on the stovetop.

14. Let pressure drop of its own accord. **Do not attempt to speed the cooling of the canner, which can cause jar breakage, liquid loss from the jars, and other problems.** Pressure is completely reduced when the air vent/cover lock and overpressure plug have dropped and no steam escapes when the pressure regulator is lifted.

15. When pressure has been completely reduced, remove the pressure regulator from the vent pipe and let the canner cool for 10 minutes. **Do not remove the pressure regulator until pressure is completely reduced and the air vent/cover lock has dropped.** Always remove the pressure regulator before opening the cover.

16. To remove the cover, turn it counterclockwise until it hits the stop tab. The cover handles will be beyond the body handles.

**CAUTION!** If cover seems to stick or is hard to turn, **do not force it open.** Sticking may indicate that there is still pressure inside the canner. If in doubt about pressure being completely reduced, let the canner stand until cool before removing the cover.

17. Lift canner cover toward you to keep steam away from you when opening (Fig. L).
18. Using a jar lifter, remove jars by lifting them straight up. Be careful not to tilt them, which causes liquid to siphon from jars. Place jars upright on a board or dry towel, away from drafts. **Do not retighten bands.** Allow jars to cool naturally. Check seals no earlier than 12 hours, but no later than 24 hours; see pages 5–6 for “After Processing” information.

**NOTICE:** When processing consecutive batches, be sure to check the water level in the canner between batches. Add water, if necessary, to keep water at the 3-quart mark (Fig. D, page 6).

19. When canning is complete, allow canner to cool completely before cleaning.

**Canner Storage:** Store canner in a dry place at temperatures above freezing with the cover inverted on the canner body. Storing the canner with the cover locked on may cause unpleasant odors and deform the sealing ring. Canner must be completely dry before storing.

Fig. I



Fig. J

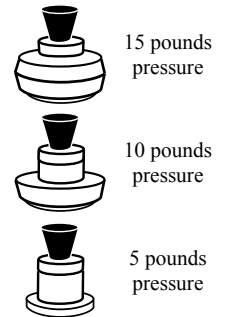
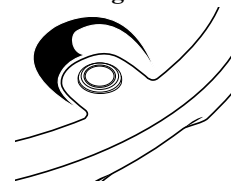
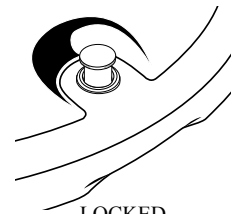


Fig. K

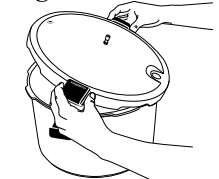


UNLOCKED  
Air vent/cover lock in  
DOWN position. No  
pressure in unit.



LOCKED  
Air vent/cover lock in  
UP position. Pressure  
in unit.

Fig. L



## Troubleshooting

- Bubbles often appear in the jar after removal from the canner because food is still boiling in the jar. Ordinarily bubbles do not appear once the product has been allowed to thoroughly cool.
- If a jar does not seal, refrigerate it and use the food within 2 to 3 days. Otherwise, reprocess or freeze the food within 24 hours. Freeze or repack using new lids. Reprocess for the full recommended processing time.
- Jar breakage during processing is caused by: (1) packing jar too solidly or overfilling; (2) weakened, nicked, or chipped jars; (3) jars touching bottom of canner; (4) failure to tighten screw bands according to manufacturer's directions; or (5) use of jars other than Mason jars.

- Liquid lost from jars during processing is caused by: (1) packing jar too solidly or overfilling; (2) insufficient exhaust period; (3) air was exhausted too vigorously during the 10-minute venting period; (4) variation or sudden reduction of pressure in the canner; or (5) failure to tighten screw bands according to manufacturer's directions.

If liquid is lost during processing, do not open the jar to replace the liquid. Loss of liquid will not cause spoilage, but food above the liquid will discolor. If at least half of the liquid is gone, place the jar in the refrigerator and use the food within 2–3 days.

- Food spoilage or jars not sealing is caused by: (1) failure to follow exact timetables and recipes; (2) failure to wipe sealing edge of jar clean before placing lid on jar; (3) foods, seeds, or grease lodged between lid and jar; (4) jars which are nicked, cracked, or have sharp sealing edges; (5) failure to tighten screw bands according to manufacturer's directions; or (6) turning jars upside down while cooling and sealing.
- Flat sour, a type of food spoilage, is caused by canning overripe food or allowing precooked foods to stand in jar too long before processing. It may be prevented by using fresh products and properly processing, cooling, and storing. Flat sour shows no indication of spoilage until jar is opened. Discard contents.
- Mold can form only in the presence of air. Therefore, jars are not sealed if mold is present. Discard contents.
- The black deposit sometimes found on the underside of a lid is caused by tannins in the food or hydrogen sulfide which is liberated from the food by the heat of processing. This does not indicate spoilage.
- The loss of color from beets during canning is usually due to the variety of beets used. Two varieties that retain color well are Ruby Queen and Detroit Red. To reduce bleeding of color, precook beets with entire root and 1 to 2 inches of stem. Remove stem and root after precooking.
- For more information, visit [www.GoPresto.com/recipes/canning](http://www.GoPresto.com/recipes/canning).

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## Care and Maintenance

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### Canner Body

- It is normal for the inside of the canner to discolor. This discoloration, which is not harmful, is a result of the various minerals in water and foods interacting with the aluminum. To remove this discoloration, use a solution of 1 tablespoon cream of tartar for every 1 quart of water. Pour enough solution into the canner to cover the discoloration, making sure the canner is not filled more than  $\frac{2}{3}$  full.

Close the cover securely, place the pressure regulator on the vent pipe, and heat until the pressure regulator begins to rock. Remove canner from heat; allow to cool to room temperature. Remove regulator, open canner, and empty contents. Scour thoroughly with a steel wool soap pad; wash, rinse, and thoroughly dry.

- Pitting is caused by the interaction of aluminum with other metals in the presence of moisture. To minimize pitting, wash, rinse, and dry the canner body thoroughly after every use. At least once a year, scour the inside of the canner body with an abrasive cleanser, such as Cameo\* Aluminum & Stainless Steel Cleaner. Always store the canner in a dry area.
- Do not leave an empty canner on a heated burner or allow the canner to boil dry. This can cause damage to the canner bottom and/or the stovetop.
- Do not strike the rim of the canner body with any metal utensil as this will cause nicks which may damage the rim and allow steam to escape.
- Do not pour water into a dry, overheated canner as this may crack the metal.
- If the canner body or cover handles become loose, tighten them with a screwdriver.

### Sealing Ring and Overpressure Plug

- Each time the canner is washed, remove the sealing ring and wash it in warm, soapy water, rinse, and dry. Replace it in cover.
- Before replacing the sealing ring, clean the sealing ring groove with a brush, if necessary.
- The sealing ring and overpressure plug should be replaced at least every three years or sooner if sealing ring becomes hard, deformed, cracked, worn, pitted, or if the canner becomes difficult to open or close. Failure to replace the sealing ring and overpressure plug could result in bodily injury or property damage. Use only genuine Presto® replacement parts.
- Exposure of the sealing ring and overpressure plug to direct high heat, such as a hot burner or stovetop, will cause the sealing ring and overpressure plug to deteriorate rapidly. If this occurs, replace these parts.

\* Cameo is a registered trademark of Armaly Sponge Company, Inc. Presto is not affiliated with Armaly Sponge Company.



- To clean or replace the overpressure plug, push it out of its opening from the top of the cover. After cleaning it, or when replacing it, reinsert the plug by pushing the domed side into the opening from the underside of the cover, until the bottom edge is fully and evenly seated against the underside of the cover.

When properly installed, the word (TOP) will be visible on the overpressure plug when viewed from the outside of the cover (Fig. M).

Fig. M



- If the overpressure plug is ever forced out of the cover due to excess pressure while cooking or canning, it is important to call the Presto Customer Service Department at 1-800-877-0441 for assistance in determining why this happened. **Do not attempt to use the released overpressure plug.**

#### Air Vent/Cover Lock

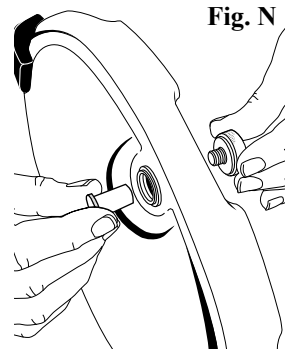
- The air vent/cover lock may be removed for occasional cleaning or for replacing the small gasket. To remove the air vent/cover lock, grasp and securely hold the cup portion on the underside of the cover with your fingers (Fig. N). Using the fingers of your other hand, turn the pin portion of the air vent/cover lock on the top side of the cover counterclockwise until the pin is free of the cup portion.

Lift the pin out of the cover and remove the cup from under the cover. Carefully pull the small gasket off of the threaded shaft on the cup portion. Wash all parts in warm, soapy water. Use a soft cloth or small nylon brush to clean the cover hole.

- To reassemble the air vent/cover lock, place the small gasket over the threaded shaft of the cup portion. Reinsert the cup portion by pushing the threaded shaft through the air vent/cover lock opening from the underside of the cover (Fig. N). Screw the pin portion clockwise onto the threaded shaft until it is finger-tight.

Do not use a wrench to tighten the air vent/cover lock. Overtightening may cause the rubber gasket to wrinkle, which will result in the canner not sealing. When properly installed, the word (TOP) will be visible on the air vent/cover lock when viewing the outside of the cover (Fig. K, page 7). Periodically check to make sure these two pieces are tight.

Fig. N



#### Vent Pipe

- Periodically check the vent pipe nut for looseness. Retighten, if necessary, using a 7/16" wrench.

#### Steam Leakage

- If the canner begins to leak moisture or if steam develops during use, check the following possible causes:
  1. Leakage between the cover and body is usually caused by shrinkage of the sealing ring after prolonged use. Replace both the sealing ring and overpressure plug.
  2. A slight amount of leakage around the air vent/cover lock is normal when canning or cooking first begins. If leakage continues, the cover handles may not be fully aligned with the body handles (see step 8, pages 6). Therefore, the air vent/cover lock cannot engage.
- Do not operate your pressure canner with continual leakage. If the preceding steps do not correct the problem, contact the Presto Consumer Service Department; see page 35 for contact information.

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## Canning Fruits

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Fruits may be safely processed using the pressure canning method (pages 6–7) or the boiling water method (page 21).

### Maintaining Color

Select firm, fully-ripened but not soft fruit. Do not can overripe foods. Some fruit (apples, apricots, nectarines, peaches, and pears) tends to darken while being prepared for canning. To prevent darkening, place the fruit in a solution of 3 grams (3,000 milligrams) ascorbic acid to 1 gallon of cold water. Ascorbic acid is available in different forms:

*Pure Powdered Form:* Use 1 teaspoon of pure powder, which weighs about 3 grams, per gallon of water.

*Vitamin C Tablets:* Buy 500 milligram tablets. Crush and dissolve 6 tablets per gallon of water.

*Commercially Prepared Mixes of Ascorbic and Citric Acid:* Available under different brand names. Use according to manufacturer's directions found on the package.

### Canning Liquids

Although fruit has better color, shape, and flavor when it is canned with syrup, it may be canned in juices (such as apple, white grape, or pineapple) or water as well. White sugar is preferable to brown sugar for canning. Light corn syrup or honey may be used to replace up to one-half the sugar. If you wish to use sugar substitutes, follow the package instructions.

The amount of sugar desirable to use in preparing syrups will depend upon the tartness of the fruit and on family preference. It should be remembered that fruit, when heated, releases some of its juices which will dilute the syrup in proportion to the juiciness of the fruit. Use the syrup chart below as a guideline for preparing the syrup needed for your canning recipe. The syrup recipe may be doubled or tripled depending on the packing method and amount of fruit being canned at one time.

To prepare the syrup, combine the sugar and water in a large pot and bring to a boil. Keep syrup hot while preparing fruit. Use as directed in the tested recipe.

*Syrups for Canning Fruits*

Syrup	Sugar	Water	Yield
Very Light	½ cup	4 cups	4½ cups
Light	1 cup	4 cups	4¾ cups
Medium	1¾ cups	4 cups	5 cups
Heavy	2¾ cups	4 cups	5½ cups

### Altitude Adjustments

The processing times for **pressure canning** given in the specific fruit recipes are for altitudes of 1,000 feet or below. When pressure canning fruit above 1,000 feet, process at 10 pounds pressure. Processing time is the same at all altitudes.

The processing times for **boiling water canning** given in the specific fruit recipes are for altitudes of 1,000 feet or below. When processing at higher altitudes, process according to the chart below.

*Altitude Chart for Boiling Water Canning Fruits*

Altitude	Increase Processing Time
1,001–3,000 feet	5 minutes
3,001–6,000 feet	10 minutes
6,001–8,000 feet	15 minutes

### Canning Recipes: Fruits

**Note:** Your 16-quart canner can be used as a boiling water canner for half-pint and pint jars only. It is not tall enough to allow adequate space for quart jars.

#### Apples

Wash, peel, and core apples. Cut into ½-inch slices. Place apples in an ascorbic acid solution (see above) to prevent darkening during preparation. Drain well.

**Hot Pack:** Add apples and syrup (see above), juice, or water to a large pot; bring to a boil. Boil for 5 minutes, stirring occasionally. Pack hot apples in hot jars, leaving ½-inch headspace. Cover apples with hot syrup, juice, or water, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 5 pounds pressure, pints and quarts 8 minutes. For processing above 1,000 feet altitude, process at 10 pounds pressure for the same amount of time.

**Boiling water canning:** Process pints and quarts 20 minutes. For processing above 1,000 feet altitude, see above for recommended time.

## Applesauce

Wash, peel, core, and slice apples. If preferred, place apple slices into ascorbic acid solution (page 10) to prevent darkening. Drain well. Place slices in a large pot. Add ½ cup water. Heat quickly until apples are tender, stirring occasionally to prevent scorching. Press through food mill or sieve; If chunk style sauce is preferred, omit this step. If preferred, sweeten to taste. Reheat sauce to boiling. Pack into hot jars, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 5 pounds pressure, pints 8 minutes and quarts 10 minutes. For processing above 1,000 feet altitude, process at 10 pounds pressure for the same amount of time.

**Boiling water canning:** Process pints 15 minutes and quarts 20 minutes. For processing above 1,000 feet altitude, see page 10 for recommended time.

## Apricots

Wash well-ripened, firm apricots. If peeled apricots are preferred, dip 1 minute in boiling water, then in cold water and peel. Cut in half and remove pits. Place apricots in an ascorbic acid solution (page 10) to prevent darkening during preparation. Drain well.

**Hot Pack:** Add apricots and syrup (page 10), juice, or water to a large pot; bring to a boil. Pack hot apricots, cut side down, in hot jars, leaving ½-inch headspace. Cover with hot syrup, juice, or water, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Raw Pack:** Pack raw apricots, cut side down, in hot jars, leaving ½-inch headspace. Cover with hot syrup, juice, or water, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** For both jar packs. Process at 5 pounds pressure, pints and quarts 10 minutes. For processing above 1,000 feet altitude, process at 10 pounds pressure for the same amount of time.

### **Boiling water canning:**

**Hot Pack:** Process pints 20 minutes and quarts 25 minutes. For processing above 1,000 feet altitude, see page 10 for recommended time.

**Raw Pack:** Process pints 25 minutes and quarts 30 minutes. For processing above 1,000 feet altitude, see page 10 for recommended time.

## Berries (except strawberries)

Choose ripe, sweet berries with uniform color. Wash 1 or 2 quarts of berries at a time. Drain, cap, and stem if necessary.

**Hot Pack:** Use this method for firmer berries such as blueberries, currants, elderberries, gooseberries, and huckleberries. Heat berries in a large pot with boiling water for 30 seconds and drain. Add ½ cup hot syrup (page 10), juice, or water to hot jars. Pack hot berries into jars, leaving ½-inch headspace. Cover with hot syrup, juice, or water, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 5 pounds pressure, pints and quarts 8 minutes. For processing above 1,000 feet altitude, process at 10 pounds pressure for the same amount of time.

**Boiling water canning:** Process pints and quarts 15 minutes. For processing above 1,000 feet altitude, see page 10 for recommended time.

**Raw Pack:** Use this method for softer berries such as raspberries and blackberries. Add ½ cup hot syrup (page 10), juice, or water to hot jars. Pack raw berries into jars, leaving ½-inch headspace. Gently shake jars while filling to pack firmly without crushing berries. Cover with hot syrup, juice, or water, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 5 pounds pressure, pints 8 minutes and quarts 10 minutes. For processing above 1,000 feet altitude, process at 10 pounds pressure for the same amount of time.

**Boiling water canning:** Process pints 15 minutes and quarts 20 minutes. For processing above 1,000 feet altitude, see page 10 for recommended time.

## Cherries

Stem and wash cherries. Remove pits, if preferred. If pitted, place cherries in an ascorbic acid solution (page 10) to prevent darkening of the stem end. Drain well. If canning whole cherries, prick each cherry with a clean needle to prevent splitting.

**Hot Pack:** Heat cherries in a large pot with ½ cup syrup (page 10), juice, or water per quart of cherries. Cover pot and bring to a boil. Pack hot cherries and cooking liquid in hot jars, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 5 pounds pressure, pints 8 minutes and quarts 10 minutes. For processing above 1,000 feet altitude, process at 10 pounds pressure for the same amount of time.

**Boiling water canning:** Process pints 15 minutes and quarts 20 minutes. For processing above 1,000 feet altitude, see page 10 for recommended time.

## Nectarines and Peaches

Wash fully-ripened but not soft nectarines or peaches. Skin can be left on nectarines. For peaches, loosen skin by dipping them 1 minute in boiling water, then in cold water. Peel. Cut fruit in half and remove pits. Slice if preferred. Place fruit in an ascorbic acid solution (page 10) to prevent darkening during preparation. Drain well.

**Hot Pack:** Add fruit and syrup (page 10), juice, or water to a large pot; bring to a boil. Pack hot fruit, cut side down, in hot jars, leaving ½-inch headspace. Cover with hot syrup, juice, or water, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Raw Pack:** Pack raw fruit, cut side down, in hot jars, leaving ½-inch headspace. Cover with hot syrup, juice, or water, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** For both jar packs. Process at 5 pounds pressure, pints and quarts 10 minutes. For processing above 1,000 feet altitude, process at 10 pounds pressure for the same amount of time.

### Boiling water canning:

**Hot Pack:** Process pints 20 minutes and quarts 25 minutes. For processing above 1,000 feet altitude, see page 10 for recommended time.

**Raw Pack:** Process pints 25 minutes and quarts 30 minutes. For processing above 1,000 feet altitude, see page 10 for recommended time.

## Pears

Wash pears. Peel, cut in half lengthwise, and core. Place pears in an ascorbic acid solution (page 10) to prevent darkening during preparation. Drain well.

**Hot Pack:** Add pears and syrup (page 10), juice, or water to a large pot; bring to a boil. Boil 5 minutes. Pack hot pears in hot jars, leaving ½-inch headspace. Cover with hot syrup, juice, or water, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 5 pounds pressure, pints and quarts 10 minutes. For processing above 1,000 feet altitude, process at 10 pounds pressure for the same amount of time.

**Boiling water canning:** Process pints 20 minutes and quarts 25 minutes. For processing above 1,000 feet altitude, see page 10 for recommended time.

## Plums

Stem and wash firm, ripe plums. If plums are to be canned whole, prick each side with a fork. Freestone varieties may be cut in half and pitted.

**Hot Pack:** Add plums and syrup (page 10), juice, or water to a large pot; bring to a boil. Boil 2 minutes. Cover pot and let stand 20 to 30 minutes. Pack hot plums in hot jars, leaving ½-inch headspace. Cover with hot syrup, juice, or water, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Raw Pack:** Pack raw plums firmly in hot jars, leaving ½-inch headspace. Cover with hot syrup (page 10), juice, or water, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 5 pounds pressure, pints and quarts 10 minutes. For processing above 1,000 feet altitude, process at 10 pounds pressure for the same amount of time.

**Boiling water canning:** Process pints 20 minutes and quarts 25 minutes. For processing above 1,000 feet altitude, see page 10 for recommended time.

## Rhubarb

Trim off leaves. Wash stalks and cut into ½-inch to 1-inch pieces.

**Hot Pack:** Add rhubarb and ½ cup sugar per quart of rhubarb to a large pot. Let stand until juice appears. Heat rhubarb slowly to boiling. Pack hot rhubarb in hot jars, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 5 pounds pressure, pints and quarts 8 minutes. For processing above 1,000 feet altitude, process at 10 pounds pressure for the same amount of time.

**Boiling water canning:** Process pints and quarts 15 minutes. For processing above 1,000 feet altitude, see page 10 for recommended time.

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## Canning Tomatoes and Tomato Products

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Tomatoes and tomato products may be safely processed using the pressure canning method (pages 6–7) or the boiling water method (page 21). For some tomato products, the pressure canning method may result in a more nutritious canned product.

### Acidifying Tomatoes and Tomato Products

Tomatoes have a pH close to 4.6, which means it is necessary to take precautions to can them safely. First, carefully choose the tomatoes for canning. Use only tomatoes that are disease-free, preferably vine-ripened, and firm.

Second, an acid must be added to tomatoes whether they are processed using the boiling water method or pressure canning method. To ensure the safety of whole, crushed, or juiced tomatoes, add 1 tablespoon bottled lemon juice (not natural juice) or ¼ teaspoon citric acid **per pint jar**; add 2 tablespoons bottled lemon juice or ½ teaspoon citric acid **per quart jars**.

### Salt

Tomatoes and tomato products may be canned with or without salt. Salt is used only for flavor, as it is not used in a large enough quantity to prevent spoilage. If salt is used, use only canning or pickling salt. Table salt contains anti-caking agents that may cause cloudiness in the liquid inside the jars. The recommended amount of salt is ½ teaspoon for each pint and 1 teaspoon for each quart.

### Altitude Adjustments

The processing times for **pressure canning** given in the specific tomato recipes are for altitudes of 1,000 feet or below. When pressure canning tomato recipes above 1,000 feet, process at 15 pounds pressure. Processing time is the same at all altitudes.

The processing times for **boiling water canning** given in the specific tomato recipes are for altitudes of 1,000 feet or below. When processing at higher altitudes, process according to the chart below.

*Altitude Chart for Boiling Water Canning Tomatoes*

Altitude	Increase Processing Time
1,001–3,000 ft.	5 minutes
3,001–6,000 ft.	10 minutes
6,001–8,000 ft.	15 minutes

### Canning Recipes: Tomatoes

**Note:** Your 16-quart canner can be used as a boiling water canner for half-pint and pint jars only. It is not tall enough to allow adequate space for quart jars.

#### **Tomatoes, whole or halved (packed raw without added liquid)**

Wash smooth, firm, ripe tomatoes. Loosen skins by dipping tomatoes 1 minute in boiling water, then in cold water. Peel and remove core. Leave whole or halve. Add bottled lemon juice or citric acid to hot jars (see above). Add salt, if using (see above). Fill jars with raw tomatoes, pressing until spaces between them fill with juice. Leave ½-inch head-space. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 10 pounds pressure, pints and quarts 25 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

**Boiling water canning:** Process pints and quarts 85 minutes. For processing above 1,000 feet altitude, see above for recommended time.

#### **Tomatoes, whole or halved (packed in water)**

Wash smooth, firm, ripe tomatoes. Loosen skins by dipping tomatoes 1 minute in boiling water, then in cold water. Peel and remove core. Leave whole or halve, or if using large tomatoes, quarter.

**Hot Pack:** Place prepared tomatoes in a large pot and add just enough water to cover. Bring to a boil and boil gently for 5 minutes. Add bottled lemon juice or citric acid to hot jars (see above). Add salt, if using (see above). Pack hot tomatoes in hot jars, leaving ½-inch headspace. Fill jars with hot cooking liquid, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Raw Pack:** Add bottled lemon juice or citric acid to hot jars (see above). Add salt, if using (see above). Pack prepared tomatoes in hot jars, leaving ½-inch headspace. Fill hot jars with boiling water, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 10 pounds pressure, pints and quarts 10 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

**Boiling water canning:** Process pints 40 minutes and quarts 45 minutes. For processing above 1,000 feet altitude, see above for recommended time.

## Tomato Juice

Wash ripe, juicy tomatoes. Remove stem ends. To prevent juice from separating, quickly cut about 1 pound of tomatoes into quarters and put directly into a large pot. Heat immediately to boiling while crushing. Continue to slowly add and crush freshly cut tomato quarters to the boiling mixture.

Make sure the mixture boils constantly and vigorously while adding more tomatoes. Continue until the pot is three-quarters full. Simmer 5 minutes. If juice separation is not a concern, simply slice or quarter tomatoes into a large pot. Crush, heat, and simmer for 5 minutes before juicing.

Press heated juice through a sieve or food mill to remove skins and seeds. Heat juice again to boiling. Add bottled lemon juice or citric acid to hot jars (page 13). Add salt, if using (page 13). Fill hot jars with hot tomato juice, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 10 pounds pressure, pints and quarts 15 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

**Boiling water canning:** Process pints 35 minutes and quarts 40 minutes. For processing above 1,000 feet altitude, see page 13 for recommended time.

## Tomato Sauce

Prepare and press as for making tomato juice (see recipe above). Heat in large pot until sauce reaches preferred consistency. Simmer until volume is reduced by about one-third for thin sauce or by one-half for thick sauce. Add bottled lemon juice or citric acid to hot jars (page 13). Add salt, if using (page 13). Pour hot sauce into hot jars, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process at 10 pounds pressure, pints and quarts 15 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

**Boiling water canning:** Process pints 35 minutes and quarts 40 minutes. For processing above 1,000 feet altitude, see page 13 for recommended time.

## Salsa

Process salsa using the boiling water method. Refer to page 33 for tested canning recipe.

### Spaghetti Sauce without Meat

30 pounds tomatoes	¼ cup packed brown sugar
1 cup chopped onion	4 tablespoons dried parsley
1 cup chopped celery or green pepper	2 tablespoons dried oregano
1 pound fresh mushrooms, sliced (optional)	4½ teaspoons salt
5 cloves garlic, minced	2 teaspoons black pepper
¼ cup vegetable oil	

**Note:** Do not increase the proportion of onion, pepper, or mushrooms.

Wash tomatoes and dip in boiling water for 30 to 60 seconds or until skins split. Dip in cold water and slip off skins. Remove cores and quarter tomatoes. Boil for 20 minutes, uncovered, in a large pot. Put through food mill or sieve. Sauté onion, celery or pepper, mushrooms (if using), and garlic in vegetable oil until tender. Combine vegetables, tomatoes, sugar, parsley, oregano, salt, and pepper.

Bring to a boil. Simmer, uncovered, stirring frequently until thick enough for serving. At this time, the initial volume will have been reduced by nearly one-half. Fill hot jars with hot sauce, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

*Yield: about 9 pints*

**Pressure canning:** Process at 10 pounds pressure, pints 20 minutes and quarts 25 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

## Spaghetti Sauce with Meat

30 pounds tomatoes	¼ cup packed brown sugar
2½ pounds ground beef or sausage	4 tablespoons dried parsley
1 cup chopped onion	2 tablespoons dried oregano
1 cup chopped celery or green pepper	4½ teaspoons salt
1 pound fresh mushrooms, sliced (optional)	2 teaspoons black pepper
5 cloves garlic, minced	

**Note:** Do not increase the proportion of onion, pepper, or mushrooms.

Wash tomatoes and dip in boiling water for 30 to 60 seconds or until skins split. Dip in cold water and slip off skins. Remove cores and quarter tomatoes. Boil for 20 minutes, uncovered, in a large pot. Put through food mill or sieve. Brown beef or sausage. Add onion, celery or green pepper, mushrooms (if using), and garlic. Cook until vegetables are tender. Combine with tomatoes in large pot. Add sugar, parsley, oregano, salt, and pepper.

Bring to a boil. Simmer, uncovered, stirring frequently until thick enough for serving. At this time, the initial volume will have been reduced by nearly one-half. Fill hot jars with hot sauce, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

*Yield: about 9 pints*

**Pressure canning:** Process at 10 pounds pressure, pints 60 minutes and quarts 70 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

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## Pressure Canning Vegetables

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**Pressure canning is the only safe method for canning vegetables.**

Young, tender, fresh, and slightly immature vegetables are better for canning than those which are overripe. As a rule, vegetables are best when canned immediately after picking, since flavor decreases upon standing and often unpleasant color changes take place. Avoid bruising vegetables because spoilage organisms grow more rapidly on bruised vegetables than on those that are unblemished.

Wash and prepare garden fresh vegetables as you would for cooking. When packing vegetables, always leave 1-inch headspace, or more if directed in recipe, in hot Mason jars.

To hot pack vegetables, precook in boiling water until heated through. Pack precooked vegetables into hot jars and cover with boiling water. Whenever possible, the precooking water should be used as liquid to cover the vegetables after packing into jars. However, there are a few vegetables, such as greens and asparagus, which make the cooking water bitter and undesirable to use.

To raw pack vegetables, simply place the prepared vegetables into hot jars and cover with boiling water.

### Salt

Vegetables may be processed with or without salt. Salt is used only for flavor, as it is not used in a large enough quantity to prevent spoilage. If salt is used, use only canning or pickling salt. Table salt contains anti-caking agents that may cause cloudiness in the liquid inside the jars. The recommended amount of salt is ½ teaspoon for each pint and 1 teaspoon for each quart.

### Altitude Adjustment

The processing times given in the specific vegetable recipes are for altitudes of 1,000 feet or below. When pressure canning above 1,000 feet, process at 15 pounds pressure. Processing time is the same at all altitudes.

### Canning Recipes: Vegetables

#### Asparagus

Wash and drain asparagus. Remove tough ends and scales. Rinse. Leave asparagus whole or cut into pieces.

**Hot Pack:** Cover asparagus with boiling water and boil 2 to 3 minutes. Pack hot asparagus loosely in hot jars, leaving 1-inch headspace.

**Raw Pack:** Pack raw asparagus tightly in hot jars, leaving 1-inch headspace.

Add salt, if using (see above). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 30 minutes and quarts 40 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

### **Beans or Peas, dry**

Sort out and discard any discolored beans. Rehydrate beans or peas using one of the following methods:

- Place dry beans or peas in a large pot and cover with water. Soak 12 to 18 hours in a cool place. Then drain.
- Cover beans with boiling water in a large pot. Boil 2 minutes, remove from heat and soak 1 hour. Then drain.

**Hot Pack:** Cover beans soaked by either method with fresh water and boil 30 minutes. Add salt to hot jars, if using (page 15). Fill jars with beans or peas and cooking water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

Process at 10 pounds pressure, pints 75 minutes and quarts 90 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

### **Beans, fresh Lima**

Shell and wash young, tender beans thoroughly.

**Hot Pack:** Cover beans with boiling water and bring to a boil. Boil 3 minutes. Pack hot beans loosely in hot jars, leaving 1-inch headspace.

**Raw Pack:** Pack raw lima beans loosely in hot jars, leaving 1-inch headspace in pint jars. For quarts, leave 1½-inch headspace if beans are small and 1¼-inch headspace if beans are large.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 40 minutes and quarts 50 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

### **Beans (green, wax, Italian)**

Wash young, tender beans thoroughly. Remove stem and blossom ends or any strings. Leave whole or cut into 1-inch pieces.

**Hot Pack:** Cover beans with boiling water and boil 5 minutes. Pack hot beans loosely in hot jars, leaving 1-inch headspace.

**Raw Pack:** Pack raw beans tightly in hot jars leaving 1-inch headspace.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 20 minutes and quarts 25 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

### **Beets**

Trim tops of young, tender beets, leaving 1 to 2 inches of stem and root to reduce bleeding of color. Wash thoroughly.

**Hot Pack:** Cover beets with boiling water and boil 15 to 25 minutes or until skins slip off easily. Remove skins, stems, and roots. Small beets may be left whole. Cut medium or large beets into ½-inch cubes or slices; halve or quarter very large slices. Pack hot beets in hot jars, leaving 1-inch headspace.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 30 minutes and quarts 35 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

### **Carrots**

Wash thoroughly and peel young, tender carrots. Carrots may be left whole, sliced, or diced.

**Hot Pack:** Cover carrots with water, bring to a boil, and simmer 5 minutes. Pack hot carrots in hot jars, leaving 1-inch headspace.

**Raw Pack:** Pack raw carrots tightly in hot jars, leaving 1-inch headspace.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 25 minutes and quarts 30 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

### **Corn, whole kernel**

Husk and remove silk from young, tender, freshly picked corn; wash ears. Blanch 3 minutes in boiling water. Cut corn from cob at about three-fourths the depth of the kernel. Do not scrape cob.

**Hot Pack:** For each quart of corn, add 1 cup boiling water. Bring to a boil and simmer 5 minutes. Pack hot corn loosely in hot jars, leaving 1-inch headspace.

**Raw Pack:** Pack raw corn loosely in hot jars, leaving 1-inch headspace.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 55 minutes and quarts 85 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.



## Greens

Sort young, tender, freshly picked greens; discard wilted or tough leaves, stems, and roots. Wash greens thoroughly.

**Hot Pack:** Blanch 1 pound of greens at a time, until well wilted (about 3 to 5 minutes). Pack hot greens loosely in hot jars, leaving 1-inch headspace.

Add salt, if using (page 15). Cover with fresh boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 70 minutes and quarts 90 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

## Mushrooms

Trim stems and discolored parts of mushrooms. Soak mushrooms in cold water for 10 minutes to remove soil. Wash in clean water. Leave small mushrooms whole; cut larger ones in half or in quarters.

**Hot Pack:** Cover mushrooms with water and boil 5 minutes. Pack hot mushrooms in hot jars, leaving 1-inch headspace. For better color, add 1/8 teaspoon of ascorbic acid per pint.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, half-pints and pints 45 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

## Okra

Wash and trim young, tender okra pods. Remove stem, without cutting into pods if okra is to be canned whole. If preferred, slice okra into 1-inch pieces.

**Hot Pack:** Cover okra with hot water and boil 2 minutes. Pack hot okra in hot jars, leaving 1-inch headspace.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 25 minutes and quarts 40 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

## Peas, green

Wash and shell young, tender freshly picked green peas. Rinse.

**Hot Pack:** Cover peas with boiling water and bring to a boil. Boil 2 minutes. Pack hot peas loosely in hot jars, leaving 1-inch headspace. Do not shake or press down.

**Raw Pack:** Pack peas loosely in hot jars, leaving 1-inch headspace. Do not shake or press down.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints and quarts 40 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

## Peppers, hot or sweet (including bell, chile, jalapeño, and pimiento)

*Preparation of chile peppers:* Cut two or four slits in each pepper. Blister using one of the following methods:

- Oven or broiler method: Place chile peppers in a 400°F oven or broiler for 6 to 8 minutes until skins blister.
- Range-top method: Cover hot burner, either gas or electric, with heavy wire mesh. Place chiles on wire mesh for several minutes until skins blister.

Allow peppers to cool. Place in a pan and cover with a damp cloth. After several minutes, peel peppers. Remove stems and seeds.

*Preparation of other peppers:* Remove stems and seeds; blanch 3 minutes.

**Hot Pack:** Small peppers may be left whole. Large peppers may be quartered. Pack peppers loosely in hot jars, leaving 1-inch headspace.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 35 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

## Potatoes, sweet

Wash small to medium size sweet potatoes.

**Hot Pack:** Boil or steam sweet potatoes just until partially soft (15 to 20 minutes). Remove skins and cut into pieces of uniform size. **CAUTION!** Do not mash or purée potatoes as processing time may not be adequate for mashed or puréed product. Pack hot sweet potatoes in hot jars, leaving 1-inch headspace.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 65 minutes and quarts 90 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

## Potatoes, white

Wash, peel, and rinse new potatoes 1 to 2 inches in diameter. If preferred, cut into ½-inch cubes. Place in ascorbic acid solution (1 teaspoon ascorbic acid to 1 gallon water) to prevent darkening. Drain.

**Hot Pack:** Cover potatoes with hot water and bring to a boil. Boil whole potatoes for 10 minutes, cubes for 2 minutes. Pack hot potatoes in hot jars, leaving 1-inch headspace.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 35 minutes and quarts 40 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

## Pumpkin and Winter Squash

Wash and remove seeds from small size pumpkins or squash. Cut into 1-inch slices and peel. Cut flesh into 1-inch cubes.

**Hot Pack:** Boil cubes in water for 2 minutes. **CAUTION!** Do not mash or purée as processing time may not be adequate for puréed product. Pack hot pumpkin or squash cubes loosely in hot jars, leaving 1-inch headspace.

Add salt, if using (page 15). Cover with boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process at 10 pounds pressure, pints 55 minutes and quarts 90 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

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## Pressure Canning Meat, Game, and Poultry

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**Pressure canning is the only safe method for canning meat, game, and poultry.**

Meat, game, and poultry should be handled carefully to avoid contamination. Keep it as cool as possible during preparation for canning, handle rapidly, and process as soon as it is packed. Use good quality product that has been trimmed of gristle, fat, and bruised spots. The hot pack is recommended for the best liquid cover and quality during storage.

To make broth, place bony pieces in a large pot and cover with cold water. Simmer until meat is tender. Discard fat. Add boiling broth to hot jars packed with precooked meat or poultry.

### Salt

Meat, game, and poultry may be canned with or without salt. Salt is used only for flavor, as it is not used in a large enough quantity to prevent spoilage. If salt is used, use only canning or pickling salt. Table salt contains anti-caking agents that may cause cloudiness in the liquid inside the jars. The recommended amount of salt is ½ teaspoon for each pint and 1 teaspoon for each quart.

### Altitude Adjustment

The processing times given in the specific meat and poultry recipes are for altitudes of 1,000 feet or below. When pressure canning above 1,000 feet, process at 15 pounds pressure. Processing time is the same at all altitudes.

### *Canning Recipes: Meat*

#### **Cut-up Meat (strips, cubes, or chunks of bear, beef, pork, lamb, veal, and venison)**

Remove excess fat. Soak strong-flavored wild meats for 1 hour in brine containing 1 tablespoon of salt per quart of water. Rinse. Remove large bones and cut into preferred pieces.

**Hot Pack:** Precook meat until rare by roasting, stewing, or browning in a small amount of oil. Do not use flour. Pack hot meat loosely in hot jars, leaving 1-inch headspace. Add salt, if using (see above). Cover meat with boiling broth, water, or tomato juice (especially with wild game) leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Raw Pack:** Add salt, if using (see above) to hot jars. Pack raw meat loosely in hot jars, leaving 1-inch headspace. **DO NOT ADD LIQUID.** Clean jar rims. Position lids and secure with bands.

Process at 10 pounds pressure, pints 75 minutes and quarts 90 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

## Ground Meat (bear, beef, pork, lamb, veal, and venison)

Grind fresh meat in a food processor or meat grinder. For venison, add one part high quality pork fat to three or four parts venison before grinding. For sausage, use freshly made sausage seasoned with salt and cayenne pepper; do not use sage as it may cause a bitter flavor.

**Hot Pack:** Shape ground meat or sausage into patties or balls. Cook until lightly browned. Ground meat may also be cooked without shaping. Drain to remove excess fat. Pack hot meat loosely in hot jars, leaving 1-inch headspace. Add salt, if using (page 18). Cover meat with boiling water, broth, or tomato juice, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

Process at 10 pounds pressure, pints 75 minutes and quarts 90 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

### *Canning Recipes: Poultry*

#### **Chicken, Duck, Goose, Turkey**

Cut poultry into serving size pieces. If preferred, remove bone.

**Hot Pack:** Precook poultry until two-thirds done by baking, boiling, or steaming. Pack hot poultry loosely in hot jars, leaving 1¼-inch headspace. Add salt, if using (page 18). Cover poultry with hot broth, leaving 1¼-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Raw Pack:** Add salt, if using (page 18) to hot jars. Pack raw poultry loosely in hot jars, leaving 1¼-inch headspace. **DO NOT ADD LIQUID.** Clean jar rims. Position lids and secure with bands.

Process at 10 pounds pressure	<u>With Bone</u>	<u>Without Bone</u>
Pints	65 minutes	75 minutes
Quarts	75 minutes	90 minutes

For processing above 1,000 feet altitude, use 15 pounds pressure.

#### **Rabbit**

Soak dressed rabbits 1 hour in water containing 1 tablespoon of salt per quart of water. Rinse. Use preparation procedures and processing times for poultry (see above), omitting salt.

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## **Pressure Canning Fish and Seafood**

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**Pressure canning is the only safe method for canning fish and seafood.** Only fresh fish should be canned and these should be bled and thoroughly cleaned of all viscera and membranes when caught, or as soon as possible. To prevent spoilage, keep fish and shellfish refrigerated or on ice to maintain a temperature of 40°F or below.

### **Altitude Adjustment**

The processing times given in the specific fish recipes are for altitudes of 1,000 feet or below. When pressure canning above 1,000 feet, process at 15 pounds pressure. Processing time is the same at all altitudes.

### *Canning Recipes: Fish and Seafood*

#### **Clams, whole or minced**

Keep clams on ice until ready to can. Scrub shells thoroughly and rinse.

**Hot Pack:** Steam 5 minutes and open. Remove clam meat. Collect and save clam juice. Wash clam meat in salted water using 1½ to 3 tablespoons of salt per gallon of water. Rinse. Cover clam meat with boiling water containing 2 tablespoons of lemon juice or ½ teaspoon of citric acid per gallon. Boil 2 minutes and drain.

To make minced clams, grind clams with a meat grinder or food processor. Heat reserved clam juice to boiling. Pack clams loosely in hot jars, leaving 1-inch headspace. Add hot clam juice and, if needed, boiling water, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

Process at 10 pounds pressure, half-pints 60 minutes and pints 70 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

### **Fish (salmon, trout, steelhead, and other fish except tuna)**

Remove head, tail, and fins. Wash fish in cold water.

**Raw Pack:** Split fish lengthwise and then cut into lengths that fit the jar size being used. Bones can be left in and skin left on, if preferred. For halibut, remove the bones and skin. Pack fish tightly in hot jars, leaving 1-inch headspace. Add ½ teaspoon canning salt to each half-pint jar, 1 teaspoon to each pint jar, if using. **DO NOT ADD LIQUID.** Clean jar rims. Position lids and secure with bands.

Process at 10 pounds pressure, half-pints and pints 100 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

### **Tuna**

Remove viscera and clean fish thoroughly. Tuna may be canned either raw or precooked. Precooking removes most of the strong-flavored, natural oils.

**Hot Pack:** Place tuna belly-side down on a rack in the bottom of a large baking pan. Bake at 350°F for 1 hour. Refrigerate cooked fish overnight to firm the meat. Remove skin. Cut meat away from bones; cut out and discard bone, fin bases, and dark flesh. Quarter the pieces; cut quarters crosswise into lengths that fit the jar size being used.

Add ½ teaspoon canning salt to each half-pint jar, 1 teaspoon to each pint jar, if using. Pack fish into hot jars, pressing down gently to make a solid pack, leaving 1-inch headspace. Add water or oil to jars, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Raw Pack:** Remove skin. Separate the meat into quarters by cutting the meat away from bones. Cut out and discard bone, fin bases, and dark flesh. Cut quarters crosswise into lengths that fit the jar size being used. Add ½ teaspoon canning salt to each half-pint jar, 1 teaspoon to each pint jar, if using. Pack fish into hot jars, pressing down gently to make a solid pack, leaving 1-inch headspace. Do not add liquid. Clean jar rims. Position lids and secure with bands.

Process at 10 pounds pressure, half-pints and pints 100 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

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## **Pressure Canning Stock and Soup**

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**Pressure canning is the only safe method for canning stock and soup.** Stock and soup are quickly and easily canned. Generally, vegetable soups are more satisfactory if the stock and vegetables are canned separately and combined at the time of serving.

### ***Canning Recipes: Stock and Soup***

#### **Beef Stock**

Saw or crack fresh trimmed beef bones to enhance extraction of flavor. Rinse bones.

**Hot Pack:** Place bones in a large pot and cover with water. Cover pot and simmer 3 to 4 hours. Remove bones. Cool broth; skim off and discard fat. Remove bits of meat from bones and add to broth, if preferred. Reheat broth to boiling. Fill hot jars with hot broth, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

Process at 10 pounds pressure, pints 20 minutes and quarts 25 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

#### **Chicken Stock**

**Hot Pack:** Place large carcass bones in a large pot; add enough water to cover bones. Cover pot and simmer 30 to 45 minutes or until meat can be easily removed from bones. Remove bones. Cool broth; skim off and discard fat. Remove bits of meat from bones and add to broth, if preferred. Reheat broth to boiling. Fill hot jars with hot broth, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

Process at 10 pounds pressure, pints 20 minutes and quarts 25 minutes. For processing above 1,000 feet altitude, use 15 pounds pressure.

## Soups (vegetable, dried bean or pea, meat, poultry, or seafood)

Choose your favorite vegetables, dried beans or peas, meat, poultry, or seafood ingredients for soup as long as those ingredients have their own individual canning recommendations. Do not use ingredients for which there are no canning recommendations.

**CAUTION!** In accordance with USDA guidelines, do not add noodles or other pasta, rice, flour, cream, milk, or other thickening agents to home canned soups as processing time may not be adequate.

**Hot Pack:** Prepare vegetables, meat, poultry, and seafood as described in the hot pack directions for the individual ingredients. If dried beans or peas are used, they must be fully rehydrated before adding to other ingredients (page 16). Combine solid ingredients with meat broth, tomatoes, or water to cover.

Boil 5 minutes. Salt to taste. Fill jars halfway with solid ingredients and then add soup liquid, leaving 1-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands.

**Pressure canning:** Process pints 60 minutes and quarts 75 minutes. If soup contains seafood, process pints and quarts 100 minutes.

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## How to Can Foods Using the Boiling Water Method

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**Note:** Your 16-quart canner can be used as a boiling water canner for half-pint and pint jars only. It is not tall enough to allow adequate space for quart jars.

If using your 23-quart canner on a smooth-top range and using the boiling water method of canning for quart jars, consult with the range/cooktop manufacturer for any weight restrictions. The filled canner weight is over 50 pounds.

1. Place cooking/canning rack on bottom of canner. Fill canner halfway with water.
2. Remove overpressure plug and pressure regulator from canner cover and set aside.
3. Preheat water to 140°F for raw-packed foods and to 180°F for hot-packed foods.
4. Use jar lifter to place filled jars, with lids and bands fastened according to manufacturer's directions, on the rack in canner.
5. Check water level. Add more boiling water, if needed, so the water level is at least 1 inch above jar tops.
6. Look through the vent pipe on the canner cover to be certain it is clear before placing cover on canner. To clean the vent pipe, draw a pipe cleaner or small brush through the opening; see page 6.
7. Place cover on canner, aligning the **V** mark on the cover with the inverted **V** mark on the body handle (Fig. H, page 6). Lock securely by turning in the direction indicated to close the cover (clockwise). Cover handles must be above body handles. Do not force beyond this position.
8. Turn heat on stove to its highest setting until water boils vigorously.
9. Set a timer for the minutes required for processing the food based on tested canning recipe.
10. Lower the heat setting to maintain a gentle boil throughout processing.
11. Add more boiling water, if needed, to keep the water level above the jars.
12. When jars have been processed for the recommended time, turn off the heat and remove the canner cover. Let the canner cool for 5 minutes.
13. Using a jar lifter, remove jars by lifting them straight up. Be careful not to tilt them, which causes liquid to siphon from jars. Place jars upright on a board or dry towel, away from drafts. Do not retighten bands. Allow jars to cool naturally. Check seals no earlier than 12 hours, but no later than 24 hours; see pages 5–6 for "After Processing" information.
14. When canning is complete, allow the canner to cool completely before cleaning.

### **Canning Recipes: Boiling Water Method**

*The recipes on pages 22–23 are safely canned by the boiling water method. Do not pressure can these recipes because the food quality would be unacceptable.*

**Important:** Jars used for the three preserve recipes (marked with a ♦) will need to be sterilized because the processing time is less than 10 minutes. To sterilize the jars, boil them for 10 minutes. If you live at an altitude of 1,000 feet or more, boil an additional minute for each 1,000-foot increase in altitude. If preferred, instead of sterilizing the jars, you can increase the processing time to 10 minutes. The additional processing time is not harmful to most gels.

**Reminder:** If your altitude is above 1,000 feet, the processing time needs adjustment; see pages 10 and 13.

For boiling water method processing procedures for fruits and tomatoes, refer to pages 10–14.

## Quick Fresh-Pack Dill Pickles

8 pounds 3- to 5-inch pickling cucumbers  
2 gallons water  
1¼ cups canning or pickling salt (divided)  
1½ quarts vinegar (5% acidity)  
¼ cup sugar

2 quarts water  
2 tablespoons whole mixed pickling spice  
3 tablespoons whole mustard seed (1 teaspoon per pint jar)  
14 heads of fresh dill (1½ heads per pint jar) OR  
4½ tablespoons dill seed (1½ teaspoons per pint jar)

Wash cucumbers. Cut 1/16-inch slice off blossom end and discard, but leave ¼-inch of stem attached. Dissolve ¾ cup salt in 2 gallons water. Pour over cucumbers and let stand 12 hours. Drain. In a large pot combine vinegar, ½ cup salt, sugar, and 2 quarts water. Add mixed pickling spices tied in a clean, white cloth. Heat to boiling.

Fill hot jars with cucumbers. Add 1 teaspoon mustard seed and 1½ heads fresh dill per pint. Cover with boiling pickling liquid, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process pints 10 minutes and quarts 15 minutes.

*Yield: about 7–9 pints*

## Apple Butter ♦

Recommended apples include Jonathan, Winesap, Stayman, Golden Delicious, and McIntosh.

8 pounds apples  
2 cups apple cider  
2 cups vinegar  
2¼ cups white sugar

2½ cups packed brown sugar  
2 tablespoons ground cinnamon  
1 tablespoon ground cloves

Wash apples. Remove stems, quarter, and core fruit. Cook apples slowly in apple cider and vinegar until soft. Press fruit through a colander, food mill, or strainer. Cook fruit pulp with sugar and spices, stirring frequently. To test for doneness, remove a spoonful and hold it away from steam for 2 minutes. It is done if the butter remains mounded on the spoon.

Another way to determine when the butter is cooked adequately is to spoon a small quantity onto a plate. When a rim of liquid does not separate around the edge of the butter, it is ready for canning. Ladle hot butter into hot jars, leaving ¼-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process half-pints and pints 5 minutes.

*Yield: 8–9 pints*

Apple Butter recipe adapted from the "Complete Guide to Home Canning," Agriculture Information Bulletin No. 539, USDA, revised 2009. National Center for Home Food Preservation.

## Rhubarb Strawberry Jam ♦

1 cup cooked red-stalked rhubarb (about 1 pound rhubarb and ¼ cup water)  
2½ cups crushed strawberries (about 1½ quarts)

6½ cups sugar  
1 pouch liquid pectin

*To prepare fruit:* Wash rhubarb and slice thin or chop; do not peel. Add water, cover, and simmer until rhubarb is tender, about 1 minute. Sort and wash fully ripe strawberries; remove stems and caps. Crush berries.

*To make jam:* Measure prepared rhubarb and strawberries into a large pot. Add sugar and stir well. Place on high heat and, stirring constantly, bring quickly to a full rolling boil that cannot be stirred down. Boil hard for 1 minute, stirring constantly. Remove from heat and stir in pectin. Skim foam, if necessary. Immediately ladle hot jam into hot jars, leaving ¼-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process half-pints and pints 5 minutes.

*Yield: about 7–8 half-pints*

## Grape Jelly ♦

5 cups grape juice (about 3½ pounds grapes and about 1 cup water)

1 package powdered pectin  
7 cups sugar

*To prepare juice:* Sort, wash, and remove stems from fully ripe grapes. In a large pot, crush about 3½ pounds of grapes and add just enough water to cover grapes, about 1 cup. Cover and bring to boil on high heat. Reduce heat and simmer for 10 minutes. Pour contents of pot into a damp jelly bag and suspend the bag to drain the juice into a large bowl. Allow juice to drain undisturbed overnight in a cool place. Strain through two thicknesses of damp cheesecloth to remove any crystals that have formed.

*To make jelly:* In a large pot combine juice and pectin; stir well. Place on high heat and, stirring constantly, bring quickly to a full rolling boil that cannot be stirred down. Add sugar, continue stirring, and heat again to a full rolling boil. Boil hard for 1 minute. Remove from heat; skim off foam quickly. Immediately ladle hot jelly into hot jars, leaving ¼-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process half-pints and pints 5 minutes.

*Yield: about 8 half-pints*

Rhubarb Strawberry Jam and Grape Jelly adapted from "How to Make Jellies, Jams, and Preserves at Home," Home and Garden Bulletin No. 56. Extension Service, United States Department of Agriculture. National Center for Home Preservation, June 2005.

## Tomato Salsa

This recipe works best with paste tomatoes, such as Roma. Slicing tomatoes, such as Plum or Beefsteak, require a much longer initial cooking time to achieve a desirable consistency.

7 quarts peeled, cored, chopped paste or plum tomatoes	2 tablespoons salt
5 cups chopped onion	1 tablespoon black pepper
4 cups seeded, chopped long green chiles	<i>Optional ingredients:</i>
½ cup seeded, finely chopped jalapeño peppers	3 tablespoons oregano leaves
6 cloves garlic, finely chopped	2 tablespoons ground cumin
2 cups bottled lemon or lime juice	2 tablespoons fresh cilantro

**CAUTION!** Wear plastic or rubber gloves and do not touch your face while handling or cutting hot peppers. If you do not wear gloves, wash hands thoroughly with soap and water before touching your face or eyes.

The jalapeño peppers do not need to be peeled. The skin of the long green chiles may be tough.

If you choose to peel chiles, wash and dry them and then slit each pepper along the side to allow steam to escape. Blister skins by placing peppers in a hot oven (400°F) or under a broiler for 6 to 8 minutes until skins blister. After blistering skins, place peppers in a pan and cover with a damp cloth. Cool several minutes; peel off skins. Discard seeds and chop.

Wash tomatoes and dip in boiling water for 30 to 60 seconds or until skins split. Dip in cold water, slip off skins, and remove cores. Combine all ingredients except oregano, cumin, and cilantro in a large pot and bring to a boil, stirring frequently, then reduce heat and simmer 10 minutes. Add oregano, cumin, and cilantro, if using, and simmer for another 20 minutes, stirring occasionally.

Ladle hot salsa into hot jars, leaving ½-inch headspace. Remove air bubbles. Clean jar rims. Position lids and secure with bands. Process pints 15 minutes.

*Yield: about 16 to 18 pints*

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**This completes the canning information.**

For additional information, visit [www.GoPresto.com/content/canning](http://www.GoPresto.com/content/canning).

The information on pages 23–33 is for pressure cooking foods in your pressure canner.

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## How to Pressure Cook Foods in Your Pressure Canner

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To assure the very best results every time, carefully follow these step-by-step instructions for pressure cooking. You may find it helpful to refer back to the parts diagrams on pages 2–3.

1. Prepare ingredients according to the directions in the selected pressure cooking recipe. Pour liquid into the canner body, as specified in the recipe or timetable. This liquid is usually water. However, some recipes will call for other liquids, such as broth, juice, or wine.
2. Place the cooking rack in the canner, if called for in the recipe; see helpful hints on page 25 for guidance on when to use.
3. **Important:** Look through the vent pipe to make certain that it is clear (Fig. E, page 6). Refer to the safety information on page 24. Also check that the overpressure plug is seated properly in the cover (Fig. M, page 9) and the two metal pieces of the air vent/cover lock are securely fastened (Fig. N, page 9).
4. Place cover on canner, aligning the **V** mark on the cover with the inverted **V** mark on the body handle (Fig. H, page 6). Press down on the cover handles to compress the sealing ring and turn the cover in the direction indicated to close (clockwise) until the cover handles are above the body handles. Do not rotate the cover beyond this point.
5. Position the canner on a level burner and range only. Use on a tilted burner or range may interfere with the operation of the pressure regulator. For electric coil and smooth-top ranges, use the element that most closely matches the 8-inch diameter of the canner bottom. This is the portion of the canner bottom which comes in contact with the element. Do not use on any outdoor LP gas burner or a gas range over 12,000 BTU's.

**CAUTION!** Using too large of an element or over 12,000 BTU's may soften the canner and cause the bottom to warp. It may also result in property damage and/or personal injury.

6. Place the complete 3-piece pressure regulator on the vent pipe. Using a high setting, heat the canner until the pressure regulator begins to rock. Adjust heat to maintain a slow, steady rocking motion. Visit [www.GoPresto.com/ppc/rocking](http://www.GoPresto.com/ppc/rocking) to see a video of a regulator rocking.

If the pressure regulator is allowed to rock vigorously, excess steam will escape. Therefore, too much liquid will evaporate and food may scorch. **Never leave your pressure canner unattended at high heat settings.** It could boil dry and overheat excessively, causing possible warping.

- The cooking time begins when the pressure regulator begins to rock gently. Cook for the length of time specified in the recipe or cooking chart. When cooking time is completed, turn off gas burner or remove canner from electric burner. **NOTICE:** Lift pressure canner to remove it from burner. Sliding cookware can leave scratches on stovetop.
- Reduce pressure according to recipe. If the recipe states “let pressure drop of its own accord,” set the canner aside to cool until pressure is completely reduced. If the recipe states “cool canner at once,” cool the pressure canner under a running water faucet or pour cold water over it.

**NOTICE:** Do not set hot canner directly on bottom of a molded sink as it could damage the sink. Instead, place canner on a cooling rack in sink.

Pressure is completely reduced when the air vent/cover lock has dropped. If the air vent/cover lock remains in its raised position, there is still pressure inside the canner. Continue to cool until the air vent/cover lock drops.

- After pressure has been completely reduced, remove the pressure regulator. **Always remove the pressure regulator before opening the cover.**
- To open the cover, turn it counterclockwise until the inverted **V** mark on the body handle aligns with the **V** mark on the cover. Then, lift the cover toward you to keep any steam away from you. **CAUTION!** If the cover seems to stick or is hard to turn, there may still be some pressure in the canner. **Do not force the cover off.** Continue cooling the canner until the air vent/cover lock has dropped and the cover turns easily.
- Remove food and serve. Let the canner cool completely before cleaning.

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## Important Safety Information

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Cooking under pressure enables you to prepare food both quickly and deliciously. If used properly, your pressure canner is one of the safest appliances in your kitchen.

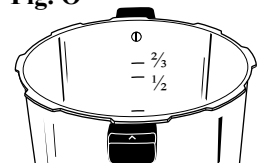
**WARNING!** To ensure safe operation, make sure you always observe the following simple rules whenever you use the pressure canner. Failure to do so could result in bodily injury or property damage.

- Never overfill the pressure canner.** The pressure regulator is designed to maintain cooking pressures at a safe level. It relieves excess pressure through the vent pipe as it rocks back and forth. Many foods tend to expand when cooked. If the canner is overfilled, expansion of food may cause the vent pipe to become blocked. If the vent pipe becomes blocked, it cannot relieve excess pressure.

There are a few foods such as rice, grains, dry beans and peas, and soups which expand so much or foam and froth while cooking that the canner should never be filled above the  $\frac{1}{2}$  fill line. For other foods, never fill the canner above the  $\frac{2}{3}$  fill line.

For your convenience, both the  $\frac{2}{3}$  and  $\frac{1}{2}$  full levels are marked by indentations on the side of the pressure canner body (Fig. O). The top marking indicates the  $\frac{2}{3}$  full level and the middle marking the  $\frac{1}{2}$  full level. The lowest marking is the 3-quart water level marking used for pressure canning.

**Fig. O**



In addition, in each section of the recipes you will find instructions on the maximum fill level for each type of food.

- Always add cooking liquid.** If an empty pressure canner is left on a hot burner or if a canner boils dry and is left on a heated burner, the canner will overheat excessively causing possible discoloration and/or warping of the canner and potential damage to the stove.
- Always look through the vent pipe before using the canner to make sure it is clear.** If the vent pipe is blocked, it cannot function as it should and thus cannot relieve excess pressure. Pressure may then build to unsafe levels. To clean the vent pipe, draw a pipe cleaner or small brush through the opening. Also clean the vent pipe nut as shown (Fig F and Fig G, page 6).
- Always fully close the pressure canner.** The canner is fully closed when the cover handles are above the body handles. Your pressure canner has specially designed lugs on the cover and body which lock the cover in place when the canner is fully closed. However, if the canner is not fully closed, the lugs cannot lock the cover onto the body. Therefore, it is possible that pressure could build inside the canner and cause the cover to come off and result in bodily injury or property damage. Always be sure the cover handles are above the body handles. Do not turn past handle alignment.
- Never open the canner when it contains pressure.** The air vent/cover lock provides a visual indication of pressure inside the canner. When it is up, there is pressure. When it is down, there is no pressure and the canner can be opened. If the canner is opened before all of the pressure is released, the contents will erupt and could cause bodily injury or property damage.
- Replace the sealing ring and overpressure plug if they become hard, deformed, cracked, worn, pitted, or soft and sticky.** Always replace the overpressure plug when replacing the sealing ring. Both the sealing ring and overpressure plug are made of rubber, and when new, are soft and pliable. Over time, depending on the frequency and type of use, rubber becomes hard and inflexible. Replace the sealing ring and overpressure plug at least every 3 years.



The overpressure plug is a secondary pressure relief valve designed to relieve excess pressure by releasing from the canner cover in the event that the vent pipe becomes blocked. When hard and inflexible, the overpressure plug loses its ability to act as a secondary pressure relief valve. It should be replaced immediately.

Should the overpressure plug ever be forced out of the cover due to excess pressure while cooking, call the Presto Customer Service Department at 1-800-877-0441 for assistance in determining why this happened. **Do not attempt to use the released overpressure plug.**

7. **Always follow the special procedures found in the instruction book when pressure cooking dry beans and peas.** During cooking, dry beans and peas tend to froth and foam and could cause the vent pipe to become blocked. Therefore, they need to be soaked and cooked according to the instructions beginning on page 30 to minimize frothing and foaming during cooking.
8. **Never pressure cook applesauce, cranberries, rhubarb, cereals, pasta, split peas, dried soup mixes, or dry beans and peas which are not listed in the chart on page 30.** These foods expand so much as a result of foaming and frothing that they should never be cooked under pressure.

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## Helpful Hints for Pressure Cooking

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- Your favorite recipes may be adjusted for cooking in the canner by following the general directions in this book for the particular type of food being cooked. Decrease the length of cooking time by two-thirds, since pressure cooking is much faster than ordinary cooking methods.

Because there is little evaporation from the canner, the amount of liquid should be decreased. Add about 2 cups more liquid than preferred in the finished product. There must always be water or some other liquid in the bottom of the canner to form the necessary steam.

- Use the cooking rack when it is desirable to cook foods out of the cooking liquid. When foods are pressure cooked out of the liquid, flavors will not intermingle. Therefore, it is possible to cook several foods at once, as long as they have similar cooking times. If it is desirable to blend flavors, do not use the cooking rack.
- When the body of your canner is heated, the metal expands. Therefore, it may be difficult to close the cover on a heated body. When this happens, allow the canner to cool slightly and then place the cover on the body.
- Foods are quickly cooked in the canner. Therefore, to prevent overcooking, it is important to accurately time the cooking period.
- If your cooked food has more liquid than you desire, simmer to evaporate the excess liquid.
- When pressure cooking at high altitudes, the cooking time needs to be increased 5% for every 1,000 feet above the first 2,000 feet. Following this rule, the times would be increased as follows:

3,000 ft. ... 5%	5,000 ft. ... 15%	7,000 ft. ... 25%
4,000 ft. ... 10%	6,000 ft. ... 20%	8,000 ft. ... 30%

- If you have questions on recipes or timetables, contact the Test Kitchen by calling 1-800-368-2194, or email us via our website at [www.GoPresto.com](http://www.GoPresto.com).

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## Pressure Cooking Meat

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Savory, tender meat is easily prepared in the canner. An important step is to sear meat to a crispy brown on all sides to seal in natural juices. Meat and entree recipes are cooked at 15 pounds pressure.

Cooking time depends on the amount and distribution of fat and bone, toughness, size and thickness of cut, grade and cut of meat, and the manner in which the meat fits into the canner. Rolled roasts require a longer cooking time per pound than roasts with bone. Short, chunky roasts take longer to cook than long, flat roasts. Because of the difference in thickness, a small, thick roast requires a longer cooking time per pound than a heavier, flat roast.

After pressure cooking time is completed, serving size pieces of meat may be quick cooled. However, when cooking a roast cut of meat, pressure must drop of its own accord to be sure that pressure is reduced both within the roast and the canner.

### DO NOT FILL CANNER OVER ¾ FULL!

*The following recipes are intended for pressure cooking and should not be canned.*

### Cooking Recipes: Meat

#### Beef Stew

4 pounds beef, cut into 1-inch cubes	3 cups tomatoes
3 tablespoons vegetable oil	Salt and pepper
12 potatoes, halved	2 cups water
4 onions, sliced	*****
12 carrots, halved	3 tablespoons flour
3 cups green beans	¾ cup water

Heat oil in canner over medium heat and brown meat. Add potatoes, onions, carrots, green beans, and tomatoes. Season to taste with salt and pepper. Add water. Close cover securely. Place pressure regulator on vent pipe and cook 8 minutes at 15 pounds pressure. Let pressure drop of its own accord. Make a paste of flour and ¾ cup water and stir into stew to thicken.

*15–18 servings*

#### Beef Pot Roast

9 pounds beef shoulder or rump roast	Salt and pepper
3 tablespoons vegetable oil	2 onions, sliced
4 cups water	2 bay leaves

Heat oil in canner over medium heat. Brown roast well on all sides; remove roast. Pour water into canner. Place cooking rack and roast in canner. Season roast with salt and pepper. Add onions and bay leaves. Close cover securely. Place pressure regulator on vent pipe and cook 45 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*15–18 servings*

#### Braised Beef

9 pounds boneless beef, round or rump roast	1 cup diced turnips
3 tablespoons vegetable oil	1 cup diced carrots
Salt and pepper	3 onions, chopped
4 cups water	1 cup chopped celery

Heat oil in canner over medium heat. Brown roast well on all sides. Season roast with salt and pepper. Add water, turnips, carrots, onions, and celery. Close cover securely. Place pressure regulator on vent pipe and cook 40 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*15–18 servings*

#### Italian Beef

9 pounds rump or chuck roast	3 bay leaves
3 tablespoons vegetable oil	1 tablespoon salt, or to taste
3 onions, chopped	3 6-ounce cans tomato paste
2 cups diced celery	2½ cups beef broth
3 carrots, chopped	1½ cups red wine
2 cups sliced mushrooms	

Heat oil in canner over medium heat. Brown roast well on all sides. Add onions, celery, carrots, mushrooms, bay leaves, and salt. Blend tomato paste with broth and wine. Pour over meat. Close cover securely. Place pressure regulator on vent pipe and cook 35 minutes at 15 pounds pressure. Let pressure drop of its own accord. Thicken gravy, if preferred.

*15–18 servings*

## Pork Chops with Vegetables

15 pork chops, $\frac{3}{4}$ inch thick	15 potatoes
3 tablespoons vegetable oil	15 carrots
Salt and pepper	4 cups water

Heat oil in canner over medium heat. Brown pork chops on both sides. Season with salt and pepper. Add potatoes, carrots, and water. Close cover securely. Place pressure regulator on vent pipe and cook 10–12 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*15 servings*

## Short Ribs of Beef

10 pounds beef short ribs, cut into serving pieces	2 cups tomatoes
3 tablespoons vegetable oil	1 tablespoon salt, or to taste
3 onions, chopped	1 teaspoon black pepper
1 cup chopped celery	4 cups water
1 green pepper, chopped	

Heat oil in canner over medium heat. Brown ribs on all sides. Add onions, celery, green pepper, tomatoes, salt, pepper, and water. Close cover securely. Place pressure regulator on vent pipe and cook 40 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*15–18 servings*

## Swiss Steak

12 pounds round steak, 1 inch thick, cut into serving pieces	2 onions, chopped
3 tablespoons vegetable oil	1 green pepper, chopped
Salt and pepper	4 cups tomato juice

Heat oil in canner over medium heat. Brown meat on both sides. Add salt, pepper, onions, green pepper, and tomato juice. Close cover securely. Place pressure regulator on vent pipe and cook 15 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*24 servings*

## Pork Roast

6 pounds pork roast	2 onions, sliced
2 tablespoons vegetable oil	4 cups water
Salt and pepper	

Heat oil in canner over medium heat. Brown roast well on all sides. Season with salt, pepper, and sliced onion; add water. Close cover securely. Place pressure regulator on vent pipe and cook 60 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*12–15 servings*

## Spareribs and Sauerkraut

6 pounds spareribs, cut into serving pieces	3 quarts sauerkraut
3 tablespoons vegetable oil	3 tablespoons packed brown sugar
Salt and pepper	4 cups water

Heat oil in canner over medium heat. Brown ribs on both sides. Season with salt and pepper. Place sauerkraut over ribs and sprinkle with brown sugar. Add water. Close cover securely. Place pressure regulator on vent pipe and cook 15 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*12 servings*

## Spareribs with Barbecue Sauce

10 pounds spareribs, cut into serving pieces	1 cup vinegar
Salt and pepper	2 tablespoons Worcestershire sauce
Paprika	1 teaspoon chili powder
3 tablespoons vegetable oil	1 teaspoon celery seed
4 onions, sliced	1 cup water
2 cups ketchup	

Season spareribs with salt, pepper, and paprika. Heat oil in canner over medium heat. Brown ribs on all sides. Add onion. Combine ketchup, vinegar, Worcestershire sauce, chili powder, celery seed, and water; pour over meat in canner. Close cover securely. Place pressure regulator on vent pipe and cook 15 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*12–15 servings*

### Spaghetti Meat Sauce

- |                                |                              |
|--------------------------------|------------------------------|
| 6 pounds ground beef           | 3 quarts tomato juice        |
| 4 onions, chopped              | 3 12-ounce cans tomato paste |
| 2 cups chopped celery          | ¼ cup sugar                  |
| 2 green peppers, diced         | 2 tablespoons dried oregano  |
| 4 cloves garlic, minced        | ½ teaspoon cayenne pepper    |
| 1 tablespoon salt, or to taste |                              |

Heat canner and brown beef. Add onions, celery, green peppers, garlic, salt, tomato juice, tomato paste, sugar, oregano, and cayenne pepper. Close cover securely. Place pressure regulator on vent pipe and cook 10 minutes at 15 pounds pressure. Let pressure drop of its own accord. Serve sauce over spaghetti and sprinkle with parmesan cheese.

*20–24 servings*

### Chili con Carne

- |                                     |   |
|-------------------------------------|---|
| 6 pounds ground beef                | 2 tablespoons chili powder                              |
| 4 onions, chopped                   | 1 tablespoon salt, or to taste                          |
| 2 green peppers, chopped            | ½ teaspoon cayenne pepper                               |
| 2 cloves garlic, minced             | 2 cups water  |
| 3 14- to 15-ounce cans tomatoes     | *****   |
| 1 14- to 15-ounce cans tomato sauce | 3 14- to 15-ounce cans kidney beans, drained and rinsed |

Heat canner and brown beef. Add onions, green pepper, and garlic and brown lightly. Add tomatoes, tomato sauce, chili powder, salt, cayenne pepper, and water. Close cover securely. Place pressure regulator on vent pipe and cook 15 minutes at 15 pounds pressure. Let pressure drop of its own accord. Stir in kidney beans and heat through.

*18–20 servings*

### New England Boiled Dinner

- |                     |                          |
|---------------------|--------------------------|
| 4 pounds ham shank  | 12 onions, halved        |
| 4 cups water        | 12 carrots, halved       |
| *****               | 1 cabbage, cut in wedges |
| 12 potatoes, halved | ½ teaspoon black pepper  |

Place ham and water in canner. Close cover securely. Place pressure regulator on vent pipe and cook 20 minutes at 15 pounds pressure. Let pressure drop of its own accord. Add potatoes, onions, carrots, cabbage, and pepper. Close cover securely. Place pressure regulator on vent pipe and cook 8 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*12 servings*

### Meat Cabbage Rolls

- |                                |                          |
|--------------------------------|--------------------------|
| 2 large heads cabbage          | 3 cups cooked rice       |
| Hot water                      | 3 cups milk              |
| 3 pounds ground beef           | ⅓ cup packed brown sugar |
| 1 tablespoon salt, or to taste | 4 cups water             |
| ¾ teaspoon black pepper        |                          |

Dip cabbage leaves in hot water. Dry leaves on towel. Combine meat, salt, pepper, cooked rice, and milk. Place a tablespoon of meat mixture onto each leaf; roll leaf around meat and fasten with toothpick. Place cooking rack and cabbage rolls in canner. Sprinkle with brown sugar and add water. Close cover securely. Place pressure regulator on vent pipe and cook 10 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*12–15 servings*

### Pork Hocks with Sauerkraut and Potatoes

- |                         |                     |
|-------------------------|---------------------|
| 9 pounds pork hocks     | 2 quarts sauerkraut |
| 4 cups water            | 12 potatoes, halved |
| ½ teaspoon black pepper | 2 onions, chopped   |
| *****                   |                     |

Place hocks, water, and pepper in canner. Close cover securely. Place pressure regulator on vent pipe and cook 45 minutes at 15 pounds pressure. Let pressure drop of its own accord. Add sauerkraut, potatoes, and onions. Close cover securely. Place pressure regulator on vent pipe and cook 10 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*12–15 servings*

## Corned Beef

12 pounds corned beef  
4 cups water

3 cloves garlic  
3 bay leaves

Cut garlic cloves in small pieces and insert in beef with a sharp knife. Place meat and water in canner. Add bay leaves. Close cover securely. Place pressure regulator on vent pipe and cook 40–50 minutes at 15 pounds pressure. Let pressure drop of its own accord.  
*20–24 servings*

## Lamb Stew

6 pounds breast of lamb, cut into 1-inch cubes  
3 tablespoons vegetable oil  
Salt and pepper  
12 carrots, cut in half

8 onions, diced  
3 green peppers, diced  
2 tablespoons Worcestershire sauce  
4 cups water

Heat oil in canner over medium heat. Brown lamb well on all sides. Season with salt and pepper. Add carrots, onions, green peppers, Worcestershire sauce, and water. Close cover securely. Place pressure regulator on vent pipe and cook 8 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*12 servings*

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## Pressure Cooking Poultry

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Poultry recipes are cooked at 15 pounds pressure. Try the following suggested recipes and enjoy tasty poultry in a variety of sauces. Or, prepare your own favorite poultry dishes. When you wish to seal the natural juices into the poultry, sear to a crispy brown prior to pressure cooking. When it is desirable to intermingle food flavors during cooking, it is best not to brown poultry; just cook it in the liquid indicated in the recipe.

### DO NOT FILL CANNER OVER ¾ FULL!

*The following recipes are intended for pressure cooking and should not be canned.*

### Cooking Recipes: Poultry

#### Chicken Imperial

9 pounds chicken, cut into serving pieces  
3 tablespoons vegetable oil  
1 teaspoon salt, or to taste  
½ teaspoon black pepper  
½ cup minced onion

1 cup slivered almonds  
4 4-ounce cans mushrooms  
2 cups chicken broth  
1 cup white wine

Heat oil in canner over medium heat. Brown chicken. Season with salt and pepper. Add onion, almonds, mushrooms with liquid, chicken broth, and wine. Close cover securely. Place pressure regulator on vent pipe and cook 10 minutes at 15 pounds pressure. Let pressure drop of its own accord. Remove chicken from canner, thicken gravy. If preferred, serve chicken on bed of hot rice, top with gravy and toasted almonds.

*15–18 servings*

#### Braised Whole Chicken

1 3- to 5- pound chicken  
3 tablespoons vegetable oil

Salt and pepper  
3 cups water

Heat oil in canner over medium heat and brown chicken on all sides. Season with salt and pepper. Remove chicken. Pour water into canner. Place cooking rack and chicken in canner. Close cover securely. Place pressure regulator on vent pipe and cook 10 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*15–18 servings*

#### Chicken Marengo

9 pounds chicken, quartered  
1 tablespoon coarse black pepper  
1 cup flour  
1 teaspoon salt, or to taste  
3 tablespoons vegetable oil

1 pound mushrooms, sliced  
2 28-ounce cans tomatoes  
2 cloves garlic, minced  
2 cups dry white wine

Rub chicken with pepper. Dredge in flour and season with salt. Heat oil in canner over medium heat. Brown chicken. Add mushrooms, tomatoes, garlic, and wine. Close cover securely. Place pressure regulator on vent pipe and cook 10 minutes at 15 pounds pressure. Let pressure drop of its own accord. Remove chicken from canner. Thicken cooking liquid, if preferred.

*15–18 servings*

## Cornish Hens in White Wine

8 Cornish hens  
3 tablespoons vegetable oil  
1 teaspoon salt  
½ teaspoon black pepper

2 cups white cooking wine  
2 teaspoons instant chicken bouillon  
1 tablespoon chopped parsley  
1 teaspoon dried thyme

Heat oil in canner over medium heat and brown hens. Season with salt and pepper. Combine cooking wine, bouillon, parsley, and thyme and pour over hens. Close cover securely. Place pressure regulator on vent pipe and cook 8 minutes at 15 pounds pressure. Let pressure drop of its own accord.

8–12 servings

## Hunter's Turkey

9 pounds turkey, cut into serving pieces  
3 tablespoons vegetable oil  
Salt and pepper  
3 onions, chopped  
3 8-ounce cans tomato sauce

3 cups chicken broth  
1 tablespoon Worcestershire sauce  
2 bay leaves  
1 teaspoon dried thyme  
1 teaspoon dried marjoram

Heat oil in canner over medium heat and brown turkey. Season with salt and pepper. Add onion, tomato sauce, chicken broth, Worcestershire sauce, bay leaves, thyme, and marjoram. Close cover securely. Place pressure regulator on vent pipe and cook 10 minutes at 15 pounds pressure. Let pressure drop of its own accord.

15–18 servings

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## Pressure Cooking Dry Beans and Peas

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The pressure canner is ideal for preparing dry beans and peas quickly. However, dry beans and peas have a tendency to froth and foam during cooking, which could cause the vent pipe to become blocked. Therefore, it is necessary to follow these instructions when pressure cooking dry beans and peas:

- Never fill the canner over the ½ full line (this includes beans, ingredients, and water).
- Add 1 tablespoon vegetable oil for cooking.
- Allow pressure to drop of its own accord.

**Soaking Beans and Peas:** All beans and peas, except lentils and black-eyed peas, should be soaked for even cooking and to remove water-soluble, gas-producing starches. Use one of these two methods:

*Traditional Method:* Clean and rinse beans; cover with three times as much water as beans. Soak 4 to 8 hours. Drain.

*Quick Method:* Clean and rinse beans; cover with three times as much water as beans. Bring beans to a boil and boil for 2 minutes. Remove from heat, cover, and let stand for 1 to 2 hours. Drain.

**Cooking Beans and Peas:** After soaking, rinse beans and remove any loose skins. Place beans in pressure canner. Add fresh water to just cover the beans and add 1 tablespoon vegetable oil. Close cover securely. Place pressure regulator on vent pipe and cook at 15 pounds pressure according to the times in the chart below.

For more firm beans for salads and side dishes and when cooking less than 2 cups of beans or peas, use the shorter time. For soups and stews, use the longer time. After cooking is complete, allow pressure to drop of its own accord.

**DO NOT FILL CANNER OVER ½ FULL!**

### *Dry Beans and Peas Timetable*

Soak beans and peas, except lentils and black-eyed peas, according to information above. Add 1 tablespoon vegetable oil to cooking liquid. **Do not cook split peas.**

Beans and Peas	Cooking Time	Beans and Peas	Cooking Time
Adzuki	1–3 minutes	Lima Beans (large)+	0–1 minutes
Anasazi	1–3 minutes	Lima Beans (baby)+	1–3 minutes
Black Beans	2–4 minutes	Navy Beans (pea)	1–3 minutes
Black-Eyed Peas	2–4 minutes*	Peas (whole yellow, green)	6–9 minutes
Chickpeas (garbanzo)+	7–10 minutes	Pinto Beans	3–6 minutes
Great Northern Beans	2–5 minutes	Red Beans	3–6 minutes
Kidney Beans	1–3 minutes	Soy Beans (beige)	8–11 minutes
Lentils (brown, green)	3–5 minutes*		

+ Add ½ to 1 teaspoon salt to soaking and cooking water to keep bean skins intact.

\* Cooking time is for unsoaked beans.

The following recipes are intended for pressure cooking and should not be canned.

### Cooking Recipes: Dry Beans

#### Boston Baked Beans

6 cups dried beans	1 cup ketchup
1 pound salt pork or bacon, diced	4 onions, diced
½ cup packed brown sugar	Water
2 teaspoons dry mustard	*****
1 cup molasses	Salt, to taste

Soak beans according to instructions on page 30. Drain and discard liquid. Heat canner and sear salt pork or bacon. Remove excess drippings. Add beans, brown sugar, dry mustard, molasses, ketchup, onions, and enough water to well cover beans. **Do not fill canner over ½ full.** Close cover securely. Place pressure regulator on vent pipe and cook 35 minutes at 15 pounds pressure. Let pressure drop of its own accord. Season to taste with salt.

12–15 servings

#### Savory White Beans

4 cups navy beans	2 small bay leaves
6 cups chicken broth	¾ teaspoon dried thyme
2 cups chopped onion	½ teaspoon dried rosemary
2 cups sliced carrots	½ teaspoon black pepper
1½ tablespoons minced garlic	*****
2 tablespoons vegetable oil	Salt, to taste

Soak beans according to instructions on page 30. Drain and discard liquid. Add beans, chicken broth, onion, carrots, garlic, vegetable oil, bay leaves, thyme, rosemary, and pepper to canner. Close cover securely. Place pressure regulator on vent pipe and cook 2 minutes at 15 pounds pressure. Let pressure drop of its own accord. Season to taste with salt.

12–15 servings

#### Lima Beans with Bacon

6 cups dried lima beans	*****
1 pound bacon, diced	Salt, to taste
Water	

Soak beans according to instructions on page 30. Drain and discard liquid. Heat canner and brown bacon. Add beans and enough water to well cover beans. **Do not fill canner over ½ full.** Close cover securely. Place pressure regulator on vent pipe and cook 3 minutes at 15 pounds pressure. Let pressure drop of its own accord. Season to taste with salt.

12–15 servings

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## Pressure Cooking Soups and Stocks

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Make homemade soups the easy way in your canner. If you wish to prepare your family's favorite soup, use the following recipes as guides. Soup recipes are cooked at 15 pounds pressure.

If adding dry beans and peas, they must first be soaked according to the directions on page 30. **Do not pressure cook soups containing barley, rice, pasta, split peas, grains, dry beans and peas which are not listed in the chart on page 30, and dried soup mixes** because they have a tendency to foam, froth, and sputter and could block the vent pipe.

Cooked barley, rice, grains, pasta, dry beans and peas which are not listed in the chart on page 30, and dried soup mixes should be added to the soup after pressure cooking.

The canner quickly transfers natural flavor and nutrients from the meat into the broth. Prepare either the Brown Beef Stock or the Chicken Stock according to the recipe. Remove the pieces of meat. If preferred, cut into small pieces and use in soup recipes. Strain through several layers of cheesecloth. Once the stock is prepared, serve it as a consommé or use it to prepare delicious soups.

**DO NOT FILL CANNER OVER ½ FULL!**

*The following recipes are intended for pressure cooking and should not be canned.*

### **Cooking Recipes: Soups and Stocks**

#### **Clam Chowder**

1 pound salt pork, cubed	Salt and pepper
6 cups water	*****
12 cups diced potatoes	4 quarts clams, minced
4 onions, minced	4 quarts hot milk
4 cups corn	½ cup butter

Heat canner and brown salt pork. Add water, potatoes, onions, corn, salt, and pepper. Close cover securely. Place pressure regulator on vent pipe and cook 5 minutes at 15 pounds pressure. Let pressure drop of its own accord. Add clams and boil, without cover, for 2 minutes; additional cooking will toughen clams. Add milk and butter.

*16 servings*

#### **Vegetable Soup**

4 pounds soup meat	4 cups canned or fresh tomatoes
2 quarts water	2 cups frozen lima beans
6 carrots, diced	1 cup diced celery
6 potatoes, diced	1 tablespoon salt, or to taste
4 onions, sliced	

Place meat, water, carrots, potatoes, onions, tomatoes, beans, celery, and salt in canner. Close cover securely. Place pressure regulator on vent pipe and cook 20 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*12–15 servings*

#### **Navy Bean Soup**

4 cups dried navy beans	2 cups tomato sauce
3 pounds ham bone or shank	2 whole cloves
2 onions, chopped	3 quarts water
4 carrots, sliced	*****
4 ribs celery, sliced	Salt and pepper, to taste
¼ cup minced green pepper	

Soak beans according to instructions on page 30. Drain and discard liquid. Place beans, ham bone, onions, carrots, celery, green pepper, tomato sauce, cloves, and water in canner. Close cover securely. Place pressure regulator on vent pipe and cook 30 minutes at 15 pounds pressure. Let pressure drop of its own accord. Season to taste with salt and pepper.

*12–15 servings*

#### **Chicken Stock**

4 pounds chicken, cut into serving pieces	1 cup diced carrots
4 quarts water	2 onions, chopped
1 cup diced celery	1 tablespoon salt, or to taste

Place chicken, water, celery, carrots, onions, and salt in canner. Close cover securely. Place pressure regulator on vent pipe and cook 10 minutes at 15 pounds pressure. Let pressure drop of its own accord. Strain stock.

*12–15 servings*

#### **Brown Beef Stock**

4 pounds beef, cubed	1 cup chopped celery
3 tablespoons vegetable oil	1 cup diced turnips
3 quarts water	2 tablespoons dried parsley
1 cup sliced onion	1 bay leaf
1 cup diced carrots	1 tablespoon salt, or to taste

Heat oil in canner over medium heat and brown beef. Add water, onion, carrots, celery, turnips, parsley, bay leaf, and salt. Close cover securely. Place pressure regulator on vent pipe and cook 20 minutes at 15 pounds pressure. Let pressure drop of its own accord. Strain stock.

*12–15 servings*



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## Pressure Cooking Desserts

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Your canner offers a shortened method for preparing steamed breads and desserts. Actually, the cooking time can be counted in minutes instead of hours. You will find, too, that your canner is easier to use than the ordinary steamer because its pressure regulator acts as a means of measurement to assure constant heat to produce uniform, even-textured products. Consult specific recipes for cooking pressure.

Best results are obtained when 1- to 1½-quart molds are used. Any type of mold is satisfactory (metal, glass, earthenware, tin food cans). Remember, never fill molds over ⅔ full; this extra top-space is to allow ample space for rising. Cover molds securely with aluminum foil shaped to the sides of the mold. If the recipe calls for a steaming period before pressure cooking, pour 3 quarts of water into the canner. Adjust heat to allow a moderate flow of steam from the vent pipe.

### DO NOT FILL CANNER OVER ⅔ FULL!

*The following recipes are intended for pressure cooking and should not be canned.*

#### Cooking Recipes: Desserts

##### Brown Betty

2 cups dry bread crumbs	9 apples, peeled, cored, and sliced
½ cup sugar	½ cup melted butter
1 teaspoon ground cinnamon	1 quart water
1 lemon, juice and rind	

Combine crumbs, sugar, cinnamon, lemon juice, and grated rind. Place alternate layers of apples and crumb mixture in buttered bowl that may be set loosely in canner. Pour melted butter over top. Cover firmly with aluminum foil. Place water, cooking rack, and bowl in canner. Close cover securely. Place pressure regulator on vent pipe and cook 20 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*12 servings*

##### English Plum Pudding

1 cup sifted all-purpose flour	½ cup currants
1 teaspoon baking powder	½ cup chopped nuts
½ teaspoon salt	1 egg
½ teaspoon ground allspice	½ cup sugar
½ teaspoon ground cinnamon	½ cup ground suet
½ teaspoon ground nutmeg	⅓ cup milk
¼ teaspoon ground cloves	3 quarts water
½ cup raisins	

Sift flour with baking powder, salt, allspice, cinnamon, nutmeg, and cloves. Add raisins, currants, and nuts. Beat egg; add sugar, suet, and milk. Combine liquid and dry ingredients; mix well. Pour into buttered 1-quart mold. Cover mold firmly with aluminum foil. Place water, cooking rack, and mold in canner. Close cover securely. Allow steam to flow from vent pipe 20 minutes. Place pressure regulator on vent pipe and cook 50 minutes at 10 pounds pressure. Let pressure drop of its own accord.

##### Bread Pudding

4 cups cubed dry bread	1 cup raisins
4 cups hot milk	1 cup chopped nuts
½ teaspoon salt	4 eggs
1 cup packed brown sugar	1 teaspoon vanilla
1 teaspoon ground cinnamon	1 quart water
2 tablespoons butter	

Combine bread, hot milk, salt, brown sugar, cinnamon, butter, raisins, nuts, eggs, and vanilla. Turn into a buttered bowl that may be set loosely in canner. Cover bowl firmly with aluminum foil. Place water, cooking rack, and bowl in canner. Close cover securely. Place pressure regulator on vent pipe and cook 20 minutes at 15 pounds pressure. Let pressure drop of its own accord.

*12 servings*

##### Brown Bread

2 cups graham flour	1½ cups light molasses
2 cups corn meal	4 cups milk, sweet or sour
2 cups rye meal	2 cups raisins
2 teaspoons salt	3 quarts water
2 teaspoons baking soda	

Mix flour, corn meal, rye meal, salt, and baking soda. Add molasses, milk, and raisins. Beat well. Pour into 6 buttered molds (pint size). Cover firmly with aluminum foil. Place water, cooking rack, and molds in canner. Close cover securely. Allow steam to flow from vent pipe 20 minutes. Place pressure regulator on vent pipe and cook 25 minutes at 10 pounds pressure. Let pressure drop of its own accord.

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## Consumer Service information

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If you have any questions regarding the operation of your Presto® canner or need parts for your canner, contact us by any of these methods:

- Call 1-800-877-0441 weekdays 8:00 AM to 4:00 PM (Central Time)
- Email us through our website at [www.GoPresto.com](http://www.GoPresto.com)
- Write National Presto Industries, Inc., Consumer Service Department, 3925 N. Hastings Way, Eau Claire, WI 54703-3703

Inquiries will be answered promptly by telephone, email, or letter. When emailing or writing, please include a phone number and a time when you can be reached during weekdays, if possible. When contacting the Consumer Service Department or when ordering replacement parts, please specify the model and series numbers found stamped on the side of the canner body. Please record this information:

Model \_\_\_\_\_ Series \_\_\_\_\_ Date Purchased \_\_\_\_\_

Any maintenance required for this canner, other than that described in the “Care and Maintenance” section of this book (pages 8–9), should be performed by our Factory Service Department. **Note:** We recommend that you call our Consumer Service Department at 1-800-877-0441 prior to sending your canner in for repair. Be sure to indicate your full name, phone number, date of purchase, and a description of the problem when sending a canner for repair. Send canners for repair to:

Canton Sales and Storage Company, Presto Factory Service Department, Attn: Repair, 555 Matthews Drive Canton, MS 39046-3251

### ***Product Registration***

**Important:** Please go online and register this product within ten days of purchase. Proper registration will serve as proof of purchase in the event your original receipt becomes misplaced or lost. Registration will not affect warranty coverage, but it may expedite the processing of warranty claims.

The additional information requested will help us develop new products that best meet your needs and desires. To register the product, visit [www.GoPresto.com/registration](http://www.GoPresto.com/registration) or simply scan this QR code. If you do not have computer access, contact the Consumer Service Department at 1-800-877-0441.



### ***Presto® Limited Warranty (applies only in the United States)***

This quality Presto® appliance is designed and built to provide many years of satisfactory performance under normal household use. Presto pledges to the original owner that should there be any defects in material or workmanship during the first twelve (12) years after purchase, we will repair or replace it at our option.

Our pledge does not apply to normal wear and tear including scratches, dulling of the polish, or staining; the repair or replacement of moving and/or perishable parts such as the pressure regulator, sealing ring, overpressure plug, or air vent/cover lock gasket; or for any damage caused by shipping. ***Outside the United States, this limited warranty does not apply.***

To obtain service under the warranty, please call our Consumer Service Department at 1-800-877-0441. If unable to resolve the problem, you will be instructed to send your Presto® appliance to the Presto Factory Service Department for a quality inspection; shipping costs will be your responsibility. When returning an appliance, please include your name, address, phone number, and the date you purchased the appliance as well as a description of the problem you are encountering with the appliance.

We want you to obtain maximum enjoyment from using this Presto® appliance and ask that you read and follow the instructions enclosed. Failure to follow instructions, damage caused by improper replacement parts, abuse, misuse (including overheating and boiling the unit dry), disassembly, alterations, or neglect will void this pledge.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This is Presto’s personal pledge to you and is being made in place of all other express warranties.

**National Presto Industries, Inc., Eau Claire, WI 54703-3703**