

# LEE KETTLES

Lee stainless steel kettles are designed to meet all processing requirements. They are built to Standard or ASME Specifications and are available in three jacket styles, various pressure ranges and with a wide range of accessories. Kettles may also be modified or specially built to customer specifications.

## STANDARD FEATURES

**All Styles:** Traditional high polished finish; ASME approved relief valves; Sanitary rolled top rims through 54" diameters, extruded stainless steel wire on larger sizes.

**Outlet:** Exclusive Lee Bottom outlet design which permits a shorter outlet pipe.

**Support:** Epoxy painted pipe legs with fixed flange feet. Stainless steel legs available as extra.

**Trunnion Style:** Free-pouring spout; safety latch, worm gear tilting on style CWD.



## QUALITY BUILT IN THE CRAFTSMAN'S TRADITION

Lee products are being made today with the same care and concern as they have for the past 40 years — precision-built of fine materials by craftsmen who still take pride in all they do. When the product is Lee you're getting the finest.

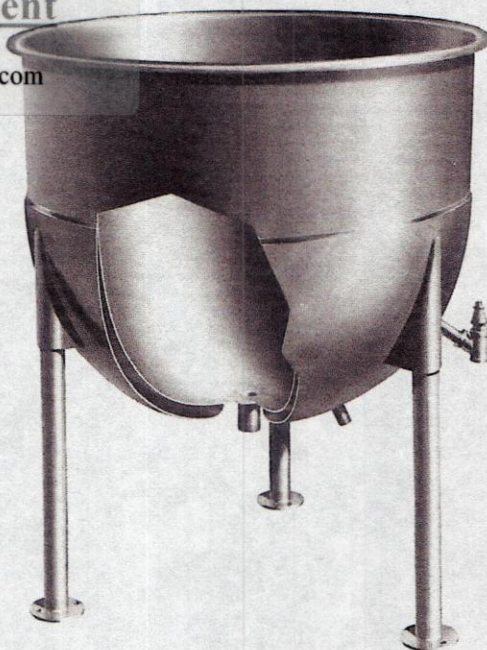
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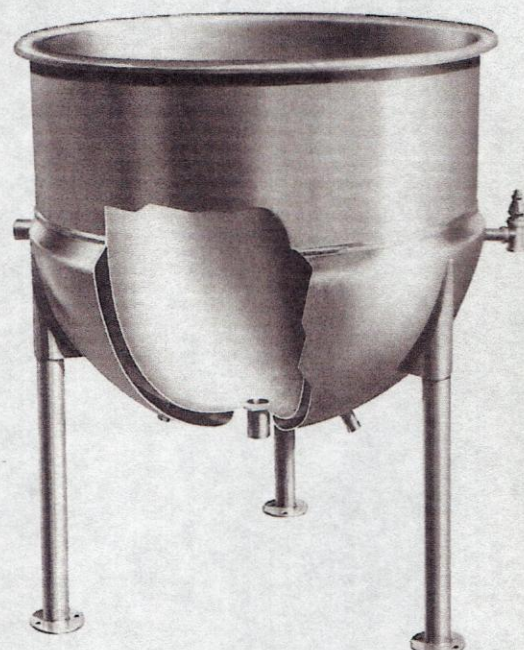


## Style A

### Standard Jacket — Stationary

Style A kettles are designed for general purpose heavy-duty use and have proven to be the most universally-used quality kettle available. The standard jacket covers approximately the surface of the hemisphere and provides efficient and uniform heat for most processing requirements.

Capacity Gallons	Inside Diameter	Inside Depth	Height Overall	Diameter Outlet	Height Outlet to Floor	Diameter Steam Conn.	Weight Crated Pounds
10	18"	14"	34 7/8"	1 1/2"	16 7/8"	3/4"	140
15	18"	16 3/4"	35 5/8"	1 1/2"	15 1/2"	3/4"	140
20	20 1/2"	18"	36 7/8"	1 1/2"	14 7/8"	3/4"	170
25	24"	18"	36 7/8"	1 1/2"	14 7/8"	3/4"	180
30	24"	20"	38 7/8"	1 1/2"	14 7/8"	3/4"	185
40	26"	22"	40 7/8"	1 1/2"	14 7/8"	3/4"	195
50	30"	23"	41 7/8"	1 1/2"	14 7/8"	3/4"	235
60	32"	24"	42 7/8"	1 1/2"	14 7/8"	3/4"	260
75	32"	27 1/2"	46 3/8"	1 1/2"	14 7/8"	3/4"	270
80	36"	25"	44 3/8"	2"	15 3/8"	3/4"	325
100	36"	30"	49 3/8"	2"	15 3/8"	3/4"	375
125	38"	34"	53 3/8"	2"	15 3/8"	3/4"	415
150	42"	34 1/2"	53 3/8"	2"	15 3/8"	1"	490
200	48"	36"	55 3/8"	2"	15 3/8"	1"	605
250	52"	39"	58 3/8"	2"	15 3/8"	1"	730
300	54"	42"	61 3/8"	2"	15 3/8"	1"	790
400	58"	47"	66 3/8"	2"	15 3/8"	1"	1100
500	62"	51"	70 3/8"	2"	15 3/8"	1"	1410



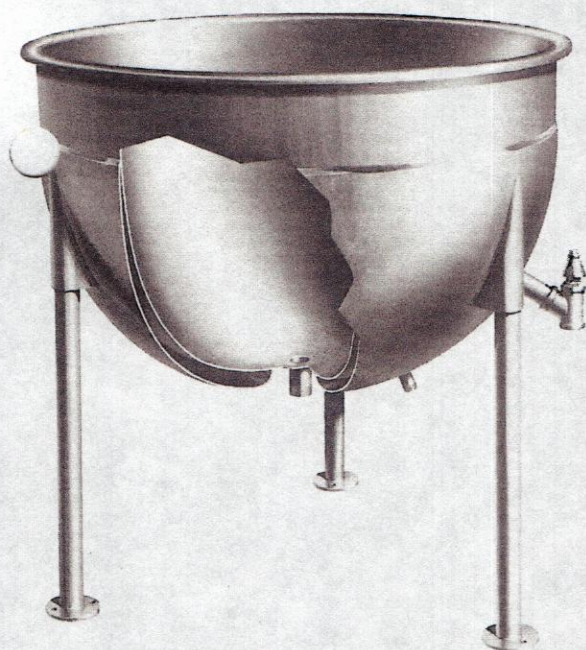
## Style D

### Super-Jacket — Stationary

The Style D super-jacket permits both heating with steam and cooling with water thru separate connections. The "D" jacket has a larger annular space thus offering faster heating and cooling cycles. As a result this style has proven most popular in a wide variety of processing applications. A baffle between jackets is available to provide directional flow of liquid heating or cooling medium.

Capacity Gallons	Inside Diameter	Inside Depth	Height Overall	Diam. Outlet	Height Outlet to Floor	Diam. Steam Conn.	Diam. Water Inlet	Diam. Water Outlet	Weight Crated Pounds
10	18"	14"	34 7/8"	1 1/2"	16 7/8"	3/4"	3/4"	1"	150
15	18"	16 3/4"	35 5/8"	1 1/2"	14 7/8"	3/4"	3/4"	1"	160
20	20 1/2"	18"	36 7/8"	1 1/2"	14 7/8"	3/4"	3/4"	1"	175
25	24"	18"	36 7/8"	1 1/2"	14 7/8"	3/4"	3/4"	1"	195
30	24"	20"	38 7/8"	1 1/2"	14 7/8"	3/4"	3/4"	1"	202
40	26"	22"	40 7/8"	1 1/2"	14 7/8"	3/4"	3/4"	1"	220
50	30"	23"	41 7/8"	1 1/2"	14 7/8"	3/4"	3/4"	1"	245
60	32"	24"	42 7/8"	1 1/2"	14 7/8"	3/4"	3/4"	1"	300
75	32"	27 1/2"	46 3/8"	1 1/2"	14 7/8"	3/4"	1"	1 1/2"	310
80	36"	25"	44 3/8"	2"	15 3/8"	3/4"	1"	1 1/2"	345
100	36"	30"	49 3/8"	2"	15 3/8"	3/4"	1"	1 1/2"	395
125	38"	34"	53 3/8"	2"	15 3/8"	3/4"	1"	1 1/2"	450
150	42"	34 1/2"	53 3/8"	2"	15 3/8"	1"	1 1/2"	2"	550
200	48"	36"	55 3/8"	2"	15 3/8"	1"	1 1/2"	2"	670
250	52"	39"	58 3/8"	2"	15 3/8"	1"	1 1/2"	2"	820
300	54"	42"	61 3/8"	2"	15 3/8"	1"	1 1/2"	2"	900
400	58"	47"	66 3/8"	2"	15 3/8"	1"	1 1/2"	2"	1200
500	62"	51"	70 3/8"	2"	15 3/8"	1"	1 1/2"	2"	1500

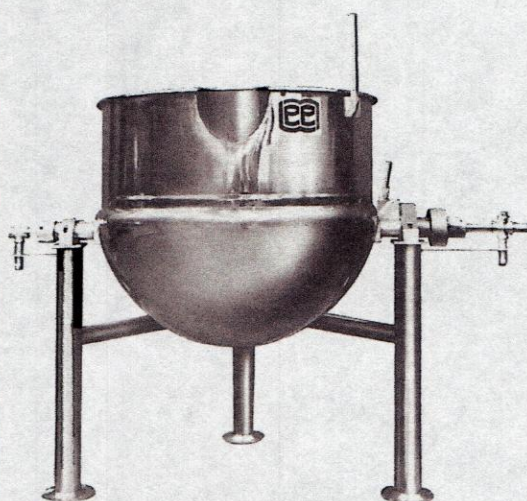




## Style B

### Full Jacket — Stationary

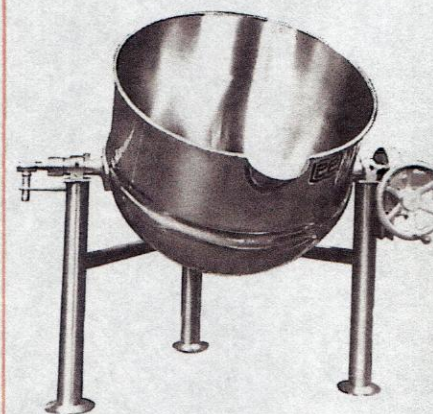
The full jacket covers approximately the entire surface of the kettle hence this style has a much larger diameter to depth ratio than Style A. Full jacket models are designed for use where heating requirements are particularly demanding as these kettles have an exceptionally high ratio of heating surface per unit of volume.



## Style CD

### CD — Super-Jacket — Trunnion Mounted with Manual Tilting

This style has a jacket as described but is trunnion-mounted for tilt-pouring. An outlet or valve may be added to the bottom for drainage or emptying. Plus positive latching to meet Federal safety standards.



## Style CWD

### CWD — Super-Jacket — Trunnion Mounted with Worm Gear Tilting

This is identical with manual tilt models but as this is of larger capacity it is provided with an enclosed worm gear for easier tilting. A safety latch is also standard. Because of the weights involved it is further recommended that trunnion kettles with capacities of 150 gallons and up be tilted hydraulically. (For details, please refer to Bulletin 700).

Capacity Gallons	Inside Diameter	Inside Depth	Height Overall	Diameter Outlet	Height Outlet to Floor	Diameter Steam Conn.	Weight Crated Pounds
10	20½"	11½"	34"	1½"	18½"	¾"	165
15	24"	14"	35½"	1½"	17½"	¾"	190
20	26"	15"	36½"	1½"	17½"	¾"	225
25	28"	16"	37½"	1½"	17½"	¾"	270
30	30"	17"	38½"	1½"	17½"	¾"	305
40	32"	18"	40½"	1½"	18½"	¾"	345
50	36"	19"	41½"	2"	18½"	¾"	410
60	38"	21"	43"	2"	18"	¾"	480
80	40"	21½"	44"	2"	18½"	1"	610
100	42"	26"	48½"	2"	18½"	1"	635
125	48"	26"	48½"	2"	18½"	1"	775
150	52"	28"	50½"	2"	18½"	1"	820
200	56"	31"	53½"	2"	18½"	1"	1000
250	60"	33"	55½"	2"	18½"	1"	1180
300	64"	35"	57½"	2"	18½"	1"	1400

Capacity Gallons	Inside Diameter	Inside Depth	Height to Top of Kettle	Width Overall Style "C"	Width Overall Style "CD"	Diameter Steam Conn.	Weight Crated Pounds
5	16"	10½"	28¼"	37"	39"	¾"	225
10	18"	14"	32"	39"	41"	¾"	240
15	18"	16¾"	35¼"	39"	41"	¾"	250
20	20½"	18"	36¾"	42"	44"	¾"	255
25	24"	18"	36¾"	45"	47"	¾"	270
30	24"	20"	39"	45"	47"	¾"	300
40	26"	22"	41"	47"	49"	¾"	335
50	30"	23"	43"	51"	53"	¾"	390
60	32"	24"	44½"	53"	55"	¾"	430
75	32"	27½"	48"	53"	55"	¾"	440
80	36"	25"	45½"	57"	59"	¾"	520
100	36"	30"	50½"	57"	59"	¾"	530

Capacity Gallons	Inside Diameter	Inside Depth	Height to Top of Kettle	Size of Steam Conn.	Ship Weight Pounds
80	36"	25"	45½"	¾"	54
100	36"	30"	50½"	¾"	58
125	38"	34"	55"	¾"	60
150	42"	34½"	56½"	1"	73
200	48"	36"	59"	1"	98
250	52"	39"	62"	1"	120
300	54"	42"	65"	1"	142

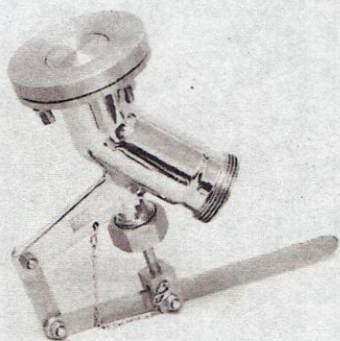
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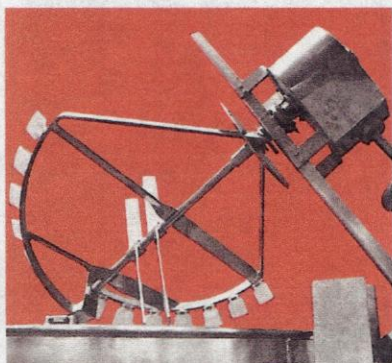
## OPTIONAL AND ACCESSORY EQUIPMENT



Plug Type



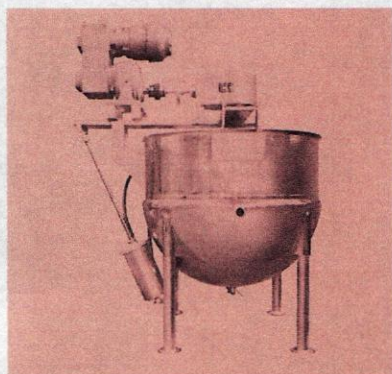
Ball Type



Typical Lee Agitator

**Flush-type Sanitary Valves** Both are exclusive Lee designs with sanitary features and flush style which assures complete product processing. Air Actuators are available for remote operation. Both valves are USDA approved.

**Agitators** Nine (9) types are available all with Lee's unique offset construction which assures complete coverage of all mixing areas. Refer to Bulletin 200C for details.

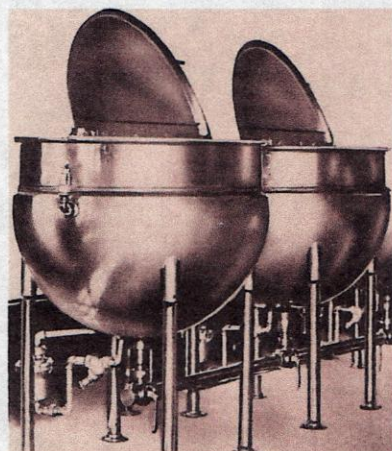


Agitator Kettle with Hydraulic Cylinder

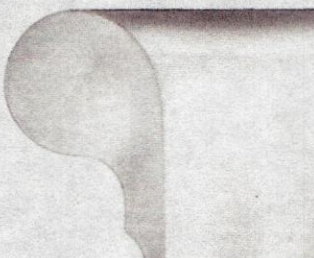
**Hydraulic Cylinders** Hydraulic cylinders are available for lifting agitators or tilting kettles. Either water or oil cylinders are available. (Refer to Bulletin 700)

**Covers** Both hinged and lift-off types are available.

**Exclusive #492 Top Wire** This special extruded stainless steel wire is available on all kettles and is standard on 56" diameter and over. The wire assures greater rigidity and adds an important sanitary feature.



Typical Hinged Cover



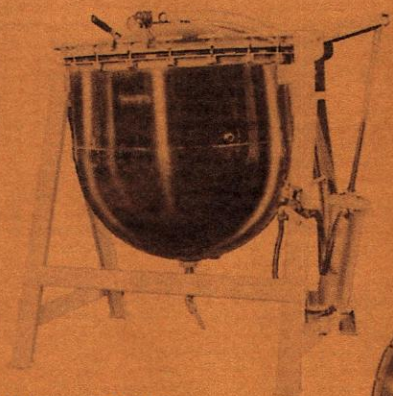
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## PRESSURE KETTLES AND COOKERS



Pressure Kettle



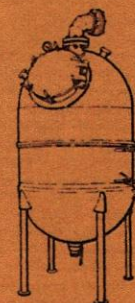
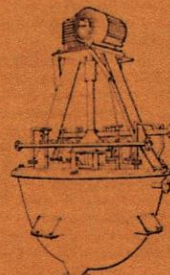
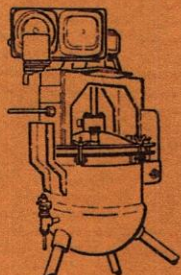
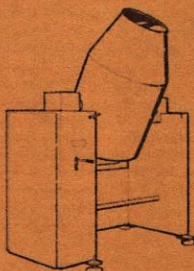
Pressure Cooker

These special vessels were specifically designed for the rapid cooking of meat and poultry; the kettle has also proven popular for other types of processing. Both have removable stainless steel baskets with perforations and trap doors, with a 2" space between the basket and the kettle inner wall for maximum circulation. Holes in the kettle basket are  $\frac{3}{16}$ " on  $\frac{3}{8}$ " centers; those in the cooker basket  $\frac{1}{2}$ " on 1" centers. The cooker basket also has a larger trap door and the basket is positioned lower within the vessel.

Both vessel types have additional features that add to their cooking efficiency. ASME approved safety valves, and temperature and pressure gauges. The cooker also has a sight glass and a second draw-off valve at the top for draining fat and lowering the broth. Covers on both types are sealed with a 1" neoprene gasket and both are supplied with a hydraulic cylinder lift. Covers on the kettle and cooker are secured by hand wheels.

Capacity		40	60	75	100	125	150	200
I.D.	K	26"	32"	32"	36"	38"	42"	48"
	C	26"	32"	32"	36"	38"	42"	48"
Inside Depth	K	22"	24"	27 $\frac{1}{2}$ "	30"	34"	34 $\frac{1}{2}$ "	36"
	C	28"	30"	33 $\frac{1}{2}$ "	36"	40"	40 $\frac{1}{2}$ "	42"
Floor Space	K	31x52	35x58	35x58	40x56	42x57	47x61	52x77
	C	31x52	35x58	35x58	40x56	42x57	47x61	52x77
Height to Vessel Top	K	55"	49"	49"	52"	56"	57 $\frac{1}{2}$ "	58"
	C	61"	55"	55"	58"	62"	63 $\frac{1}{2}$ "	64"
Height Cover Raised	K	92"	94"	94"	102"	107"	111"	120"
	C	98"	100"	100"	108"	113"	117"	126"
Diam. Outlet	K	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2"	2"	2"	2"
	C	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2"	2"	2"	2"
Distance Outlet to Floor	K	23 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	12"	12"	12"	12"	12"
	C	23 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	12"	12"	12"	12"	12"
Steam Conn.	K	$\frac{3}{4}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "	1"	1"
	C	$\frac{3}{4}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "	1"	1"
Weight Crated Pounds	K	984	1163	1180	1351	1483	1686	1950
	C	1072	1271	1288	1467	1612	1834	2112

## Traditionally Fine Processing Equipment



### LEE METAL PRODUCTS COMPANY

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