



# Radiator Caps

The Tridon radiator cap range has been developed to operate within original equipment manufacturer's specifications. Photographs and technical specifications are shown for each Tridon part number.

The Tridon radiator cap range contains 74 part numbers available in metal or plastic design suitable for use on sealed, recovery vehicle cooling systems or open, non recovery vehicle cooling systems.

As the radiator cap must be compatible with the vehicle cooling system, always refer to the vehicle application list to ensure the correct part number is selected.

# TRIDON



# Radiator Caps

The radiator cap is designed to seal the cooling system to prevent coolant loss, maintain pressure within the cooling system and raise the boiling point of the coolant. Radiator caps are manufactured to a predetermined pressure rating, utilising either metal or plastic design, and are suitable for use on sealed recovery or open non recovery vehicle cooling systems.

## Recovery Caps (double seal)

In a sealed or recovery cooling system the recovery radiator cap (double seal) allows coolant to flow to and from the recovery or expansion tank, maintaining the integrity of the cooling system. In a correctly operational recovery cooling system, coolant checks are only required at OEM recommended service intervals as the coolant is maintained within the system.

## Non Recovery Caps (single seal)

The open or non recovery cooling system does not have a recovery or expansion tank; the non recovery radiator cap (single seal) allows the release of coolant and the return of air to the cooling system. The non recovery cooling system requires regular coolant checks and replacement to ensure the system does not run dry.

**NOTE:** A recovery radiator cap (double seal) may be used on a non recovery system, however a non recovery radiator cap cannot be used on a recovery cooling system.

## Safety Lever Radiator Caps

Safety Lever Caps are suitable for both performance and mining applications preventing scalding and burns during cap removal.

This cap has an inbuilt lock where the lever must be lifted prior to turning to enable the cap to be removed. Safety lever caps feature a stainless body and brass pin to conform to mining requirements. The cap contains no aluminium components.

All lever caps are recovery style covering standard bayonet and small bayonet Japanese (CA, CB series). There are 7 part numbers available in lever style caps (refer to page 95 for range and pressures).



# Selection

The Tridon radiator cap range has been developed to operate within original equipment manufacturer's specifications. As the radiator cap must be compatible with the vehicle cooling system, always refer to the vehicle application list to ensure the correct part number is selected. Failure to use the correct radiator cap may result in severe engine damage.

Always check the following prior to installing a new radiator cap:

- Radiator cap style (Recovery or Non Recovery)
- Radiator cap dimensions
- Correct operating pressure

Additional vehicles and applications may have been introduced after the time of catalogue printing. For complete, up to date vehicle application listings refer to the Tridon website [www.tridon.com.au](http://www.tridon.com.au) (or [www.tridon.co.nz](http://www.tridon.co.nz)) and go to Tridon Part Finder.

## Pressure Rating

Always replace the cap with the same pressure rating as recommended by the vehicle manufacturer. Each additional pound of pressure above the specified pressure increases the boiling point of the coolant by 1.4°C or 2.5°F. Generally caps are designed from 4PSI (30kPa) to 30PSI (205kPa).

Pressure Conversion	
PSI	kPa
4	30
7	50
10	70
13	90
14	95
15	100
16	110
17	120
18	125/130
19	130
20	135/140
21	145
22	150
30	200/205

# Function

In the normal position both the pressure and vacuum valves of the Tridon cap remain closed (Figure 1). The pressure in the cooling system rises as the temperature rises. When the pressure begins to exceed the caps rated pressure, the pressure valve opens (Figure 2) releasing pressurised coolant from the radiator into the recovery or expansion tank.

The pressure valve closes as the excess cooling system pressure reduces. The cycle of opening and closing the pressure valve continues, maintaining the appropriate system pressure and protecting cooling system components from over pressurisation.

As the system cools down cooling system pressure reduces, creating negative cooling system pressure. Negative pressure can cause radiator tanks and hoses to collapse leading to damage to the cooling system.

To prevent damage, Tridon radiator caps have an additional vacuum valve to allow coolant or air to return to the radiator as the pressure reduces (Figure 3). This serves a dual purpose of allowing the cooling system pressure to equalise as well as allowing coolant to return to the radiator.

## Radiator Cap Test Procedure

For correct radiator cap testing a commercial type radiator cap and coolant system tester is required. For details on cooling system and radiator cap testers see service tools section page 117, including Toledo and Sykes Pickavant cooling systems and cap pressure testers.

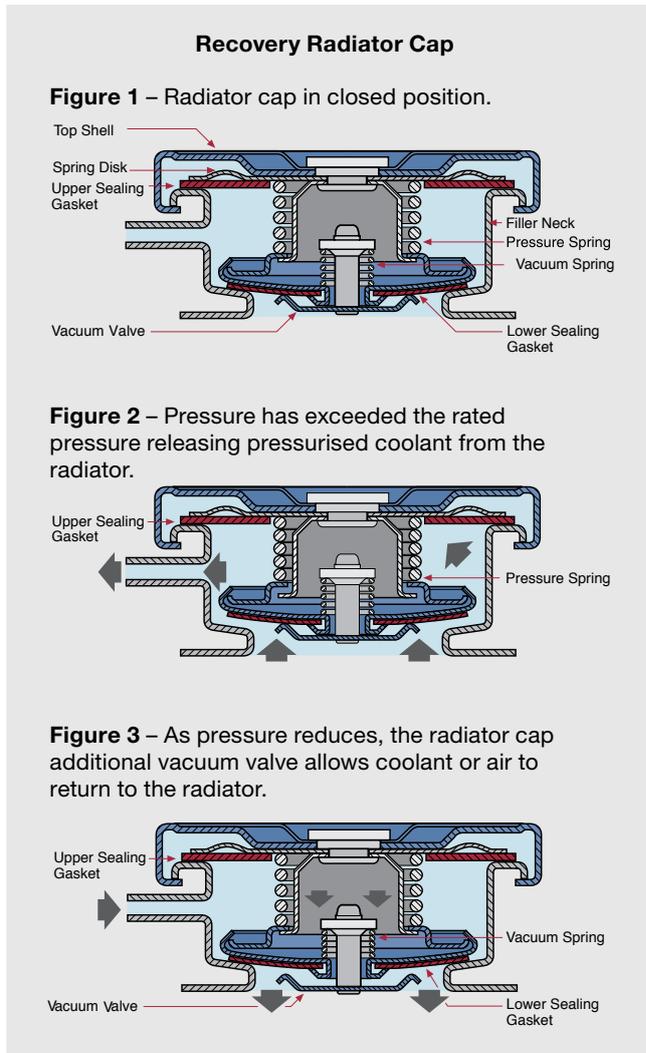
**Step 1** Select the hand pump gauge assembly.

**Step 2** Select cap adaptor if required and attach to pump.

**Step 3** Moisten seals and connect cap to adaptor or pump.

**Step 4** Pump to exceed cap nominated pressure by 30%. Cap should blow off and return to nominated pressure.

**Step 5** Pressure should hold at the nominated pressure.



**Note:** There is a tolerance of 1-2PSI either side of the nominated pressure rating. Retest cap to verify results.

The cap should be replaced if:

1. The pressure is exceeded and it does not fall back to the nominated pressure tolerance of 1-2PSI.
2. The cap does not hold any pressure, i.e. needle on pump immediately returns to zero.
3. The cap falls outside the 1-2 PSI tolerance in holding pressure.

**CA Series**

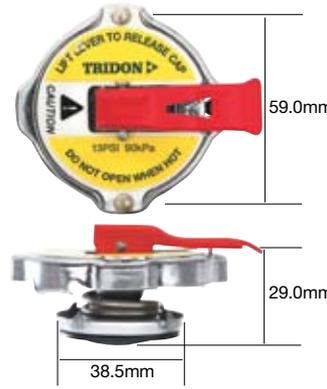
**Type** Recovery cap  
**Style** Standard bayonet



Pressure		Part No.
PSI	kPa	
7	50	CA0750
13	90	CA1390
14	95	CA1495
15	100	CA15100
16	110	CA16110
18	125	CA18125
20	135	CA20135
22	150	CA22150

**CA Series with Safety Lever**

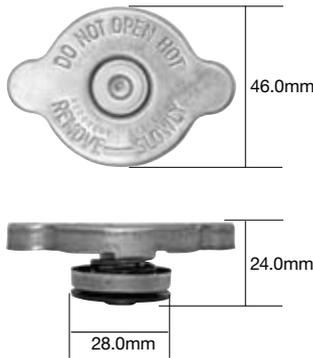
**Type** Recovery cap  
**Style** Standard bayonet



Pressure		Part No.
PSI	kPa	
7	50	CA0750L
13	90	CA1390L
15	100	CA15100L
16	110	CA16110L
20	135	CA20135L

**CB Series**

**Type** Recovery cap  
**Style** Small Japanese bayonet



Pressure		Part No.
PSI	kPa	
13	90	CB1390
15	100	CB15100
16	110	CB16110
17	120	CB17120
18	125	CB18125

**CB Series with Safety Lever**

**Type** Recovery cap  
**Style** Small Japanese bayonet



Pressure		Part No.
PSI	kPa	
13	90	CB1390L
16	110	CB16110L

**CC Series**

**Type** Recovery cap  
**Style** Extra small Japanese bayonet



Pressure		Part No.
PSI	kPa	
13	90	CC1390
16	110	CC16110

**CD Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M48)



Pressure		Part No.
PSI	kPa	
20	135	CD20135

**CE Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M52)



Pressure		Part No.
PSI	kPa	
18	125	CE18125

**CF Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M45)



Pressure		Part No.
PSI	kPa	
10	70	CF1070
14	95	CF1495
20	135	CF20135

**CG Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M45)



Pressure		Part No.
PSI	kPa	
14	95	CG1495

**CH Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M52)



Pressure		Part No.
PSI	kPa	
16	110	CH16110

**CJ Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M45)



Pressure		Part No.
PSI	kPa	
16	110	CJ16110
18	125	CJ18125
20	140	CJ20140

**CK Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M58)



Pressure		Part No.
PSI	kPa	
18	125	CK18125

**CL Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M53)



Pressure		Part No.
PSI	kPa	
20	135	CL20135
30	205	CL30205

**CM Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M52)



Pressure		Part No.
PSI	kPa	
16	110	CM16110

**CN Series**

**Type** Non recovery cap  
**Style** Standard bayonet



Pressure		Part No.
PSI	kPa	
4	30	CN0430
7	50	CN0750
10	70	CN1070
13	90	CN1390
15	100	CN15100
20	135	CN20135

### CO Series

**Type** Recovery cap

**Style** 4 ear bayonet

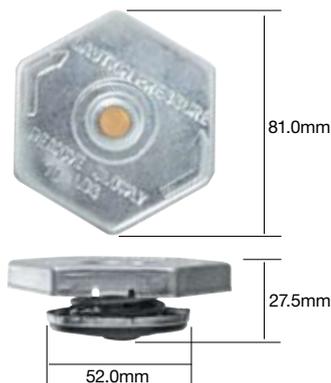


Pressure		Part No.
PSI	kPa	
18	125	CO18125

### CP Series

**Type** Non recovery cap

**Style** Large bayonet



Pressure		Part No.
PSI	kPa	
4	30	CP0430
7	50	CP0750
10	70	CP1070

### CR Series

**Type** Non recovery cap

**Style** Standard bayonet

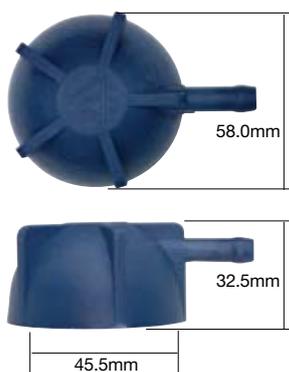


Pressure		Part No.
PSI	kPa	
4	30	CR0430
7	50	CR0750
10	70	CR1070
13	90	CR1390

### CS Series

**Type** Recovery cap

**Style** Plastic screw (suits M48)



Pressure		Part No.
PSI	kPa	
16	110	CS16110

### CT Series

**Type** Recovery cap

**Style** Plastic screw (suits M63)



Pressure		Part No.
PSI	kPa	
22	150	CT22150

### CU Series

**Type** Recovery cap

**Style** Plastic screw (suits M53)



Pressure		Part No.
PSI	kPa	
17	120	CU17120
20	135	CU20135

### CV Series

**Type** Recovery cap

**Style** Plastic screw (suits M45)



Pressure		Part No.
PSI	kPa	
16	110	CV16110
19	130	CV19130

### CW Series

**Type** Recovery cap

**Style** Plastic screw (suits M55)



Pressure		Part No.
PSI	kPa	
16	110	CW16110
18	125	CW18125

### CX Series

**Type** Recovery cap

**Style** Plastic screw (suits M53)



Pressure		Part No.
PSI	kPa	
18	125	CX18125

**CY Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M52)



Pressure		Part No.
PSI	kPa	
18	125	CY18125

**CZ Series**

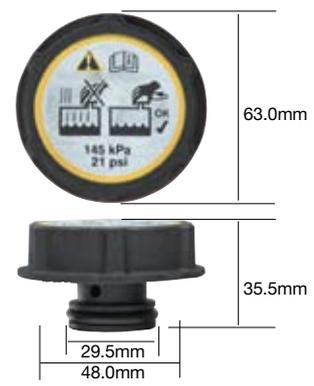
**Type** Recovery cap  
**Style** Plastic screw (suits M53)



Pressure		Part No.
PSI	kPa	
20	140	CZ20140

**DA Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M50)



Pressure		Part No.
PSI	kPa	
21	145	DA21145

**DB Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M62)



Pressure		Part No.
PSI	kPa	
20	140	DB20140

**DC Series**

**Type** Recovery cap  
**Style** Plastic (suits M45)



Pressure		Part No.
PSI	kPa	
20	140	DC20140

**DD Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M53)



Pressure		Part No.
PSI	kPa	
17	120	DD17120

**DE Series**

**Type** Recovery cap  
**Style** Plastic bayonet



Pressure		Part No.
PSI	kPa	
20	140	DE20140

**DF Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M53)



Pressure		Part No.
PSI	kPa	
20	140	DF20140
30	200	DF30200

**DG Series**

**Type** Recovery cap  
**Style** Plastic screw (suits M38)



Pressure		Part No.
PSI	kPa	
20	140	DG20140

**DH Series**

**Type** Recovery cap

**Style** Plastic screw (suits M62)



Pressure		Part No.
PSI	kPa	
18	130	<b>DH18130</b>

**DJ Series**

**Type** Recovery cap

**Style** Plastic screw (suits M44)



Pressure		Part No.
PSI	kPa	
18	130	<b>DJ18130</b>

**TRC Series – Small**

**Type** Blanking cap

**Style** Small metal bayonet



Pressure		Part No.
PSI	kPa	
Nil	Nil	<b>TRC11</b>

**TRC Series – Standard**

**Type** Blanking cap

**Style** Standard metal bayonet



Pressure		Part No.
PSI	kPa	
Nil	Nil	<b>TRC10</b>

**TRC Series – Large**

**Type** Blanking cap

**Style** Large metal bayonet



Pressure		Part No.
PSI	kPa	
Nil	Nil	<b>TRC32</b>