

Cooling System Service Equipment

Cooling System Test & Evacuation Equipment

Mityvac offers the most advanced cooling system test and refill equipment available. In addition to offering a professional pressure tester and AirEvac kit, Mityvac is the first to combine pressure, temperature, and vacuum testing and automatic refill into one kit. Only MV4525 is capable of performing all these tests and functions, replacing up to three different competitive kits. But even more important, it is the first tester designed for testing a vehicle with the engine on or off. Testing with the engine on provides real-time feedback of pressure, vacuum and temperature while the engine warms up through its normal operating cycle, providing the most accurate assessment on how the cooling system is functioning. Using this system, a technician can quickly and easily diagnose cooling system leaks, a blown head gasket, a cracked or damaged head or block, or a faulty thermostat, fan switch/relay, or coolant sensor.

To compliment our testers, Mityvac offers 29 custom designed adapters to fit the radiators, coolant bottles, and caps of virtually every make and model of US, Asian, and European manufactured car and light truck. All adapters are sold separately, and are also available in five cost saving kits.

MV4525* Cooling System Test & Refill Kit

The MV4525 is the most innovative, advanced automotive cooling system test kit ever designed. It is the first and only tester developed specifically to run complete cooling system diagnostics with the engine running and at normal operating temperature and pressure. New patent pending technology combines testing and monitoring of pressure, vacuum and temperature simultaneously, to provide real-time data far beyond the capabilities of a simple pressure tester. This combination of features ensures the most extensive, accurate cooling system diagnosis possible. See pages 39 and 40 for a complete list of available adapters and their applications as well as convenient, cost saving adapter kits. Visit mityvac.com to view a complete updated make/model/year application guide.

Applications:

- Pressure and/or vacuum test for leaks in automotive cooling systems
- Rapidly refill cooling systems without trapping air
- Check proper function of thermostat, cooling sensor, and cooling fan(s)
- Diagnose blown head gasket(s), cracked block, and cylinder head damage
- Cooling system cap pressure testing (additional adapters required)

Features:

- Patent pending coupler saves the expense of up to three separate kits by combining pressure, vacuum and temperature testing capabilities
- Tests cooling system with engine on or off to pinpoint leaks or diagnose blown head gaskets, cracked block, or damaged head(s).
- Refills cooling system in minutes without trapping air that can cause overheating
- Components connect using self-locking quick-disconnects for easy and time saving assembly and breakdown.
- Safety valves prevent discharge of pressure and/or hot fluid in case of accidental disconnect
- Built-in valve allows the rapid, safe release of pressure and fluid without waiting for the system to cool
- Includes four adapters for connecting to the most common radiator and coolant bottle necks found on Domestic, Asian, and European automobiles.
- Additional adapters available for all makes and models of cars and light trucks
- Packaged in custom-molded case with space for additional adapters
- Molded adapter design provides a secure grip during installation or removal

Includes:

- Pressure pump
- 2.5 in. (64 mm) diameter diaphragm style compound gauge with hanging hook
- Venturi vacuum
- Valve coupler
- Temperature probe
- (2x) 30 in. (760 mm) extension hose
- 5 ft. (1.5 m) refill hose
- 5 ft. (1.5 m) drain hose
- Cap wrench
- Hose clip
- MVA100 cooling system adapter (US and foreign cars)
- MVA101 cooling system adapter (Asian cars)
- MVA102 cooling system adapter (Asian cars)
- MVA103 cooling system adapter (US and foreign cars)
- Custom molded case
- User manual (English, French, Spanish)
- Adapter selection guide (English, French, Spanish)

Specifications:

Packaged weight:	10.3 lbs. (4.7 kg)
Packaged size:	20.6 x 18.3 x 4.3 in. (525 x 465 x 110 mm)
Maximum pressure:	30 psi (200 kPa)
Maximum temperature:	400°F (200°C)
Vacuum:	15 in. Hg (51 kPa) @ 60 psi (4.1 bar) inlet pressure 24 in. Hg (81 kPa) @ 90 psi (6.2 bar) inlet pressure 25 in. Hg (85 kPa) @ 120 psi (8.3 bar) inlet pressure
Air inlet size:	¼ in. NPT



MV4525

* **▲ WARNING** California Proposition 65
Cancer and reproductive harm.
www.P65Warnings.ca.gov

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To complement our testers, Mityvac offers a large selection of adapters to fit the radiators and coolant bottles of most makes and models of US, Asian, and European manufactured cars and light trucks. In addition, for each cooling system adapter, we offer an equivalent cap adapter for testing the function of the cooling system cap. The chart below provides a list of available adapters and a brief description of their applications. Visit mityvac.com to view a complete updated make/model/year application guide. The most popular adapters are available in our test kits MV4525, MV4530 and MV4529, but each is available for separate purchase or in special adapter kits shown on page 47.

Radiators and Coolant Bottles with bayonet style neck

Pressure Cap	System Adapter #	Cap Adapter #	Application(s)
	MVA100*	MVA200	Original large bayonet style used on most early model autos. Still used on many applications through current year.
	MVA101*	MVA201*	Small bayonet applications with 16 mm deep neck. Numerous applications including many Asian autos.
	MVA102	MVA202*	Small bayonet applications with 9 mm deep neck. Numerous applications including many Asian autos.

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Radiators and Coolant Bottles with internal threads on the neck

	MVA106	MVA206	Volkswagen models 1990-1998 with internal thread on coolant bottle.
	MVA108*	MVA208	Volkswagen and Audi models 1998 and later with internal thread on coolant bottle.
	MVA111	MVA211	Toyota MR2 Spyder and Celica 2000 and later.

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Radiators and Coolant Bottles with external threads on the neck

	MVA103*	MVA203*	Numerous domestic applications especially GM beginning in early 1990s through current year. Also some Mercedes, Jaguar, and Ford.
	MVA104	MVA204	Volkswagen and Audi models 1975 through 1993 with external thread on coolant bottle
	MVA105*	MVA205	Peugeot 206/406, Volvo, Land Rover Freelander, Alfa Romeo 164, Renault, Mini, Jeep, Sterling, Saab with external thread on coolant bottle
	MVA107*	MVA207	Porsche, Mercury, Saturn, Saab, Jaguar, Range Rover, Pontiac, Daewoo, Ford
	MVA109	MVA209	Mercedes E-Class 1996 and later, Mercedes with external thread on coolant bottle (except M-Class), Chrysler Crossfire 2004 and later
	MVA110	MVA210	Ford Focus and Escape, Jaguar XK8 and XJ8, Mazda Tribute
	MVA112	MVA207	BMW through 1987, Merkur Scorpio 1987 through 1989
	MVA113*	MVA213	BMW 1998 through 2002 with external thread on coolant bottle, Land Rover Range Rover 1995 through 1997
	MVA114*	MVA214	Mazda 3

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Cooling System Service Equipment



MVA4620
European CS Test Adapter Kit



MVA4640
Extended CS Test Adapter Kit



MVA4610
US/Asian CS Cap Adapter Kit



MVA4630
European CS Cap Adapter Kit



MVA4650
Extended CS Cap Adapter Kit

For the most up-to-date adapter applications, visit www.mityvac.com



MVA360

All of our MVA100 series cooling system adapters and MVA200 series cooling system cap adapters listed on page 39 are available for separate purchase or in conveniently packaged kits. Kits MVA4610 thru MVA4650 listed below include a custom-molded case with space for up to eight adapters.

Cooling System Test Adapter Kits

The most popular of our MVA100 series cooling system test adapters are included with test kits MV4525, MV4530 and MV4529. Adapter kits MVA4620 and MVA4640 contain most of the others.

	MV4525	MV4529	MV4530	MVA4620*	MVA4640*
MVA100*	X	X	X		
MVA101*	X		X		
MVA102	X		X		
MVA103*	X		X		
MVA104				X	
MVA105*				X	
MVA106				X	
MVA107*					X
MVA108*				X	
MVA109				X	
MVA110					X
MVA111					X
MVA112					
MVA113*				X	
MVA114*					X

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Cooling System Cap Test Adapter Kits

All of our MVA200 series cooling system cap test adapters are available for separate purchase or in the convenient kits listed below.

	MVA4610	MVA4630	MVA4650
MVA200	X		
MVA201*	X		
MVA202*	X		
MVA203*	X		
MVA204		X	
MVA205		X	
MVA206		X	
MVA207			X
MVA208		X	
MVA209		X	
MVA210			X
MVA211			X
MVA213		X	
MVA214			X

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MVA360* Cooling System Test Hose

Allows Mityvac hand pressure pumps to be used with any of the MVA100 and MVA200 series cooling system test adapters to test automotive cooling systems and cooling system caps for leaks that can lead to overheating and severe engine damage.

Specifications:

Weight: 5.2 oz. (215 g)

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