



STEAM SPECIALTIES
SUPER TRAP CARTRIDGE
Series 60 Thermostatic Steam Trap
(VAC. - 250 PSIG)

Features

- Super Sensitive Phosphor Bronze Bellows
- Super Durable Stainless Steel Valve & Seat
- Super Strong Stainless Steel Housing
- Factory Calibrated & Tested
- Large Air and Condensate Capacities
- Easy On-Line Repair
- Tested to More than 10,000,000 Cycles
- Available in 1/2", 3/4" & 1" Pipe Sizes for Angle, Vertical and Combination Configurations
- Standard Stainless Steel Strainer Screen



Applications

Radiators - Main Drips - Platen Presses - Air Handlers - Steam Kettles
Fin Tube - Heat Exchangers - Tracer Lines - Sterilizers - Laundry Equipment

Description

The MEPCO Series 60 Super Trap Cartridge is designed to provide instantaneous removal of air and condensate without the loss of live steam. The Series 60 Super Trap Cartridge is a balanced pressured thermostatic steam trap with a super sensitive hydraulically formed bellows that closely follows the saturated steam curve and has an ascending capacity curve for steam pressures ranging from vacuum to 250 PSIG.

The Series 60 Super Trap Cartridge sensitivity allows for fast acting response to the presence of steam, water, air, and non-condensable gasses and is rugged enough to withstand the most extreme environments and operating conditions.

The actuating element is a one-piece, self-contained unit that is factory calibrated and tested under live steam to insure uniform operation. The actuating element is removable for ease of testing and on-line repair, eliminating the need to take the trap body off-line, significantly reducing equipment down time.

Operation

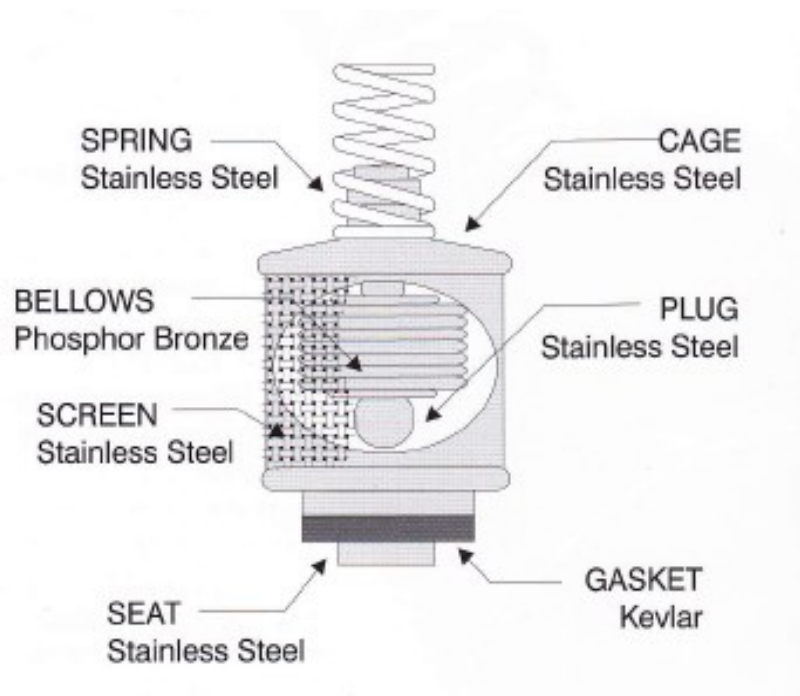
The Series 60 Super Trap Cartridge has a balanced-pressure actuating element, which uses vapor pressure within a highly sensitive bellows to open and close a valve in a modulating manner, depending on the saturated steam temperature surrounding it. The thermostatic element is normally open to quickly expel large amounts of air and condensate. As saturated steam surrounds the thermostatic element, the volatile liquid in the element flashes into vapor, creating an internal pressure equal to the surrounding steam pressure. This equalization of pressures allows the element to expand to its natural length or closed position, preventing live steam from passing. The presence of condensate will cool the element and condense the vapor, reinstating the internal vacuum, causing the element to retract to its normally open position allowing the condensate to drain from the trap into the return line.

Engineering Specifications

Gross Capacities LBS./HR.

	Pressure Differential (psig)														
Pattern	5	10	15	20	40	50	60	80	100	125	150	175	200	225	250
ALL	1,150	1,540	1,700	1,910	2,370	2,960	3,260	3,670	4,050	4,350	4,975	5,200	5,500	5,820	5,950

Capacities are 10° F below saturated steam temperature and are the result of an extensive testing program conducted in accordance with ANSI/ASME PTC.39.1 1980 Condensate Removal Devices for Steam Systems. Greater capacities are realized when condensate temperatures are cooler than 10° F below saturation temperature.



MEPCO Series 60 Super Trap Cartridges are available to upgrade thermostatic and float and thermostatic steam traps from most manufacturer's including Danham-Bush, Barnes and Jones, ITT Hoffman, Nicholson, Spirax-Sarco, Trane, Yarway, Warren Webster as well as our own MEPCO Traps. Contact the factory for part numbers and pricing.