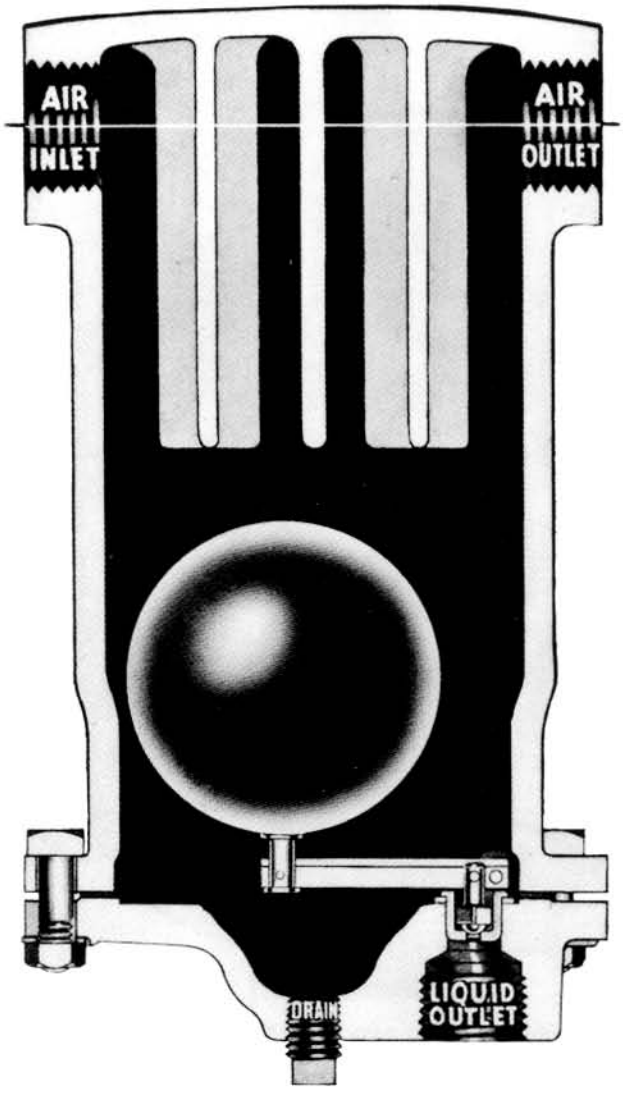
Clark·Reliance®

Section: C100
Bulletin: C100.40
Date: 8/1/96
Supersedes: 206, 207

COMBINATION SEPARATOR TRAPS



Pressures to 200 PSIG (No. 532 and 533)

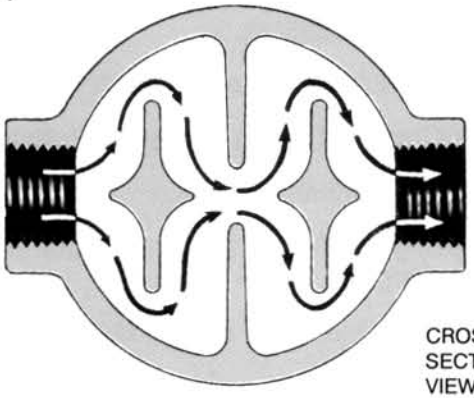
Pressures to 300 PSIG* (No. 534, 535, 536, 537, 538 and 539) *250 PSIG on steam service.

Separator Traps in pipe sizes 1/2" to 3."

Clark-Reliance combination separator traps collect and discharge all entrained moisture and condensate from gas, steam or air lines. The compact design, which combines separation and automatic drainage, simplifies installation, requires fewer pipe fittings.

Highly efficient separator feature assures that air, steam or gas is clean and dry. Line pressure drop is negligible with proper trap sizing.

Trap body is high pressure cast iron (ASTM Class 30). Discs, seats and pins are heat-treated stainless steel. All stainless steel levers, brackets and floats. Air inlet and outlet sizes are 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2" and 3".



CROSS SECTIONAL VIEW (TOP)

TRAP NO.	AIR INLET AND OUTLET	LIQUID DISCHARGE OUTLET	DRAIN OUTLET	DIMENSIONS			ORIFICE DIAMETERS AND CONTINUOS DISCHARGE CAPACITY IN POUNDS PER HOUR AT PRESSURES SHOWN.* (ORIFICE DIAMETER IN FRACTIONS)							
				HEIGHT	DIA.	WT.	30	50	75	125	150	200	250	300
532	1/2	1/2	1/4	9 9/16	5	16	9/64 1050	7/64 810	7/64 975	5/64 600	1/16 415	1/16 470		
533	3/4	1/2	1/4	9 9/16	5	16	9/64 1050	7/64 810	7/64 975	5/64 600	1/16 415	1/16 470		
534	1	1/2	1/4	10 1/8	5 1/2	21	9/64 1050	9/64 1325	9/64 1560	7/64 1200	7/64 1280	5/64 725	5/64 780	1/16 550
535	1 1/4	1/2	1/4	11	6 1/4	26	9/64 1050	9/64 1325	9/64 1560	7/64 1200	7/64 1280	5/64 725	5/64 780	1/16 550
536	1 1/2	1/2	1/4	11	6 1/4	26	9/64 1050	9/64 1325	9/64 1560	7/64 1200	7/64 1280	5/64 725	5/64 780	1/16 550
537	2	1/2	1/4	11	6 1/4	26	9/64 1050	9/64 1325	9/64 1560	7/64 1200	7/64 1280	5/64 725	5/64 780	1/16 550
538	2 1/2	1/2	1/4	11 9/16	7	34	9/64 1050	9/64 1325	9/64 1560	7/64 1200	7/64 1280	5/64 725	5/64 780	1/16 550
539	3	1/2	1/4	11 9/16	7	34	9/64 1050	9/64 1325	9/64 1560	7/64 1200	7/64 1280	5/64 725	5/64 780	1/16 550

*Based upon condensate at 70° F. When ordering, specify: (a) Trap Number, (b) Maximum Inlet Pressure, (c) Type of Service, Air, Steam or Gas.

Clark·Reliance®

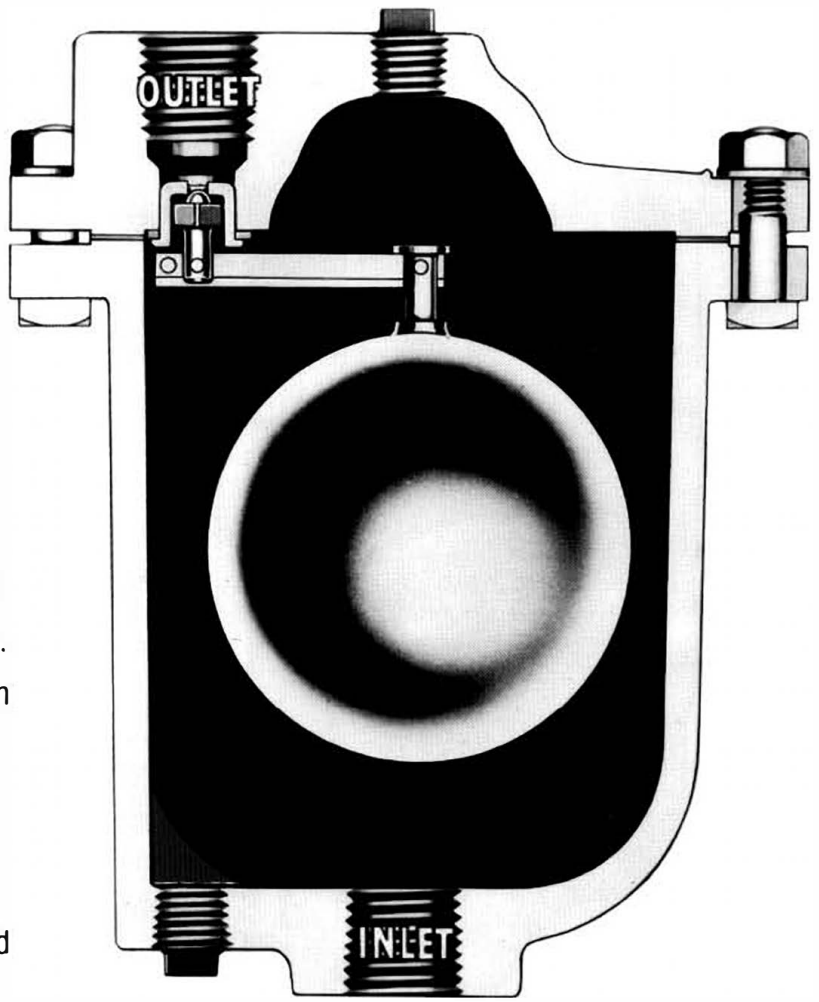
VENTING TRAPS

Pressures to 300 PSIG

Venting Traps In Pipe Sizes 1/2" and 3/4."

Clark-Reliance venting traps automatically discharge air or gas that accumulates at the high points of a liquid system or closed vessel. The venting process is actuated by a float, therefore these traps must be used with a liquid rather than air or other gases.

Operation is direct and positive. Accumulation of air or gas lowers the float, opening the valve. Accumulation of liquid raises the float, closing the valve.



Body is high pressure cast iron (ASTM Class 30) for pressures to 250 PSIG @ 450° F. or 300 PSIG @ 150° F. All internal working parts are stainless steel including discs, seats and floats. Valve points are guided to assure positive closing.

Clark-Reliance Venting Trap Applications:

- Vent air at high points of hot or cold water system.
- Vent air on cooling systems of internal combustion engines and compressors.
- Vent air from fluid lines ahead of meter runs.
- Vent air or gas on discharge of deep well pumps.
- Vent air from hydraulic systems.
- Vent air and gases from gravity lines to pumps and pump discharges.
- Admit air when liquids are drained from tanks.
- As liquid level control by piping liquid into the discharge valve of the trap.

TRAP NO.	AIR INLET AND OUTLET	DRAIN AND EQUAL. CONN.	DIMENSIONS			ORIFICE SIZE AND AIR VENTING CAPACITIES IN CU. FT. OF FREE AIR PER MINUTE AT INDICATED PRESSURE FROM LIQUIDS HAVING A MIN. SPEC. GRAV. = .6									
			HEIGHT	DIA.	WT.	15	30	50	75	100	125	150	200	250	300
245-V	1/2 or 3/4	1/4	6 11/16	5 5/8	11	9/64 7.3	9/64 11	9/64 15.5	9/64 21	7/64 17	7/64 20.6	7/64 24.0	5/64 16.2	5/64 20	1/16 15.2

For additional information, contact your local Clark-Reliance representative

Clark·Reliance®

16633 FOLTZ INDUSTRIAL PARKWAY • STRONGSVILLE, OHIO 44149 • USA
TELEPHONE: (440) 572-1500 • FACSIMILE: (440) 238-8828 • www.clark-reliance.com

ISO 9001 REGISTERED

NOTE: Clark-Reliance shall not be liable for damages of any kind resulting in part from failure to install its products in accordance with all applicable codes and/or state and local regulations, improper application and/or maintenance.

©The Clark-Reliance Corporation, 1996

REPRESENTED BY: YATES & COMPANY, INC. ♦ 1 Hollywood Ave, Unit 22 HoHoKus, NJ 07423
Tel: 201-345-3101 ♦ Email: info@yatesco.net

Printed in USA