



MARSHALL ENGINEERED PRODUCTS CO.

SPECIALTIES

Thermodynamic Disc Trap, Models MD-44, MD-66 & MD-88

APPLICATION

The MEPCO Thermodynamic Disc Trap is designed to efficiently discharge condensate on applications with working pressures to 600 PSI. This compact, lightweight, simple yet rugged trap will provide economical long-term performance on drip legs, tracing and process services.



FEATURES AND BENEFITS

- Easy in-line inspection and maintenance. A simple one piece thermodynamic disc can be inspected, removed or replaced without removing the trap from the line.
- Single moving part. This simple yet effective design utilizes just one moving part for minimal maintenance and long operating life.
- Stainless steel construction is highly resistant to fatigue and corrosion for longer service life.
- High capacities. The optimized porting configuration provides for higher flow capacities than found with other cartridge designs.
- Rugged design that withstands the effects of water hammer, vibration, superheat and corrosive environments.

The MEPCO Thermodynamic trap is available in three sizes; 1/2", 3/4" and 1" for handling pressures ranging from 4 to 600 PSI and temperatures to 800 degrees F and will operate against outlet pressure to 50% of the trap inlet pressure.



SPECIFICATIONS

Capacity Chart - Condensate in Pounds per Hour

Sizes - 1/2", 3/4" and 1"

End Connections - threaded NPT

Materials:

Body: Stainless Steel (ASTM A-743, CA 40)

Cap: Stainless Steel (ASTM A-743, CA 40)

Disc: Stainless Steel (420 degrees F.)

Cartridge: Stainless Steel (420 degrees F.)

Seat: Stainless Steel

Maximum Temperature: 800 degrees F.

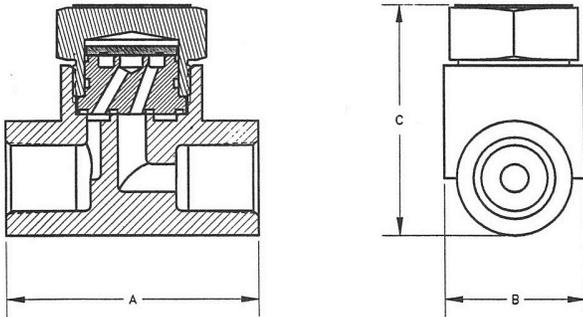
Maximum Pressure: 600 PSI.

Mounting: any position except upside down:
self draining when mounted vertically
downward.

ΔP , psig	1/2"	3/4"	1"
4	180	243	384
10	207	282	435
20	246	336	519
30	279	384	588
50	345	486	720
75	420	600	882
100	486	696	1050
150	600	870	1320
200	684	1002	1560
250	762	1140	1740
300	846	1260	1950
350	918	1350	2100
400	978	1458	2268
450	1038	1560	2412
500	1098	1650	2550
550	1146	1740	2670
600	1200	1830	2820

Note: Capacities are continuous discharge in pounds per hour or condensate at 0 back pressure. Apply safety factor as required by your specific application.

DIMENSIONS



MODEL	SIZE	A	B	C
MD-4	1/2"	2-11/16"	1-17/32"	2-3/8"
MD-6	3/4"	2-13/16"	1-29/32"	2-11/16"
MD-8	1"	3-5/16"	2-1/8"	3-1/16"

