**Clark·Reliance**

*QUALITY STEAM SPECIALTIES SINCE 1922*

# ENDURATRAPS: LOW PRESSURE

## STAINLESS STEEL INVERTED BUCKET STEAM TRAPS • PRESSURES TO 500 PSI

### EXTENDED SERVICE LIFE IN HEATING OR PROCESS STEAM SYSTEMS

All Stainless Steel Body And Internals With Easily Renewable Internal Parts

Rugged, Heavy Duty Design In ½" Or ¾" Vertical And Horizontal Models — Threaded Or Socket Weld Connections

Pressures To 500 PSI At Up To 600°F.

The Enduratrap is an advanced version of the highly efficient inverted bucket steam trap. Featuring corrosion-resistant stainless steel in both trap body and internal parts, Enduratraps can provide longer, more trouble-free service than any other trap of its type.

Unique to Enduratraps are the easily renewable stainless steel internals. Readily available from Clark-Reliance, renewable internals allow Enduratraps to remain in service years beyond conventional steel fabricated or cast iron types.

Available in ½" and ¾" vertical and horizontal models, Enduratraps represent maximum steam conservation per steam trap dollar. Manufactured from only premium quality materials, these high performance traps are designed for widespread applications in manufacturing, chemical, food processing, power generating and other major industries.

**Specific Applications** Clark-Reliance Enduratraps should be specified when complete and rapid removal of condensate is essential. Typical equipment installations include steam systems serving steam mains, desuperheaters, autoclaves, cooking kettles, stills, evaporators, water heaters, sterilizers, cylinder or drum dryers, plus numerous applications requiring similar trap performance. Call your Clark-Reliance representative for application assistance.

### RENEWABLE STAINLESS STEEL INTERNALS, EASY SERVICING

Enduratraps are renewed easily and quickly by replacement of internal stainless steel parts. Manufactured to precise original specifications by Clark-Reliance, parts are readily available and easily stocked.

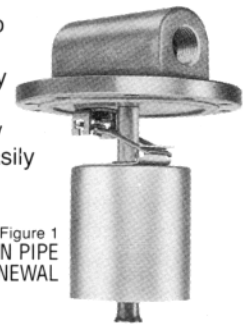


Figure 1
COVER STAYS IN PIPE DURING PARTS RENEWAL

Parts include bucket, lever, seat, disc lock, and bracket. Seat and disc parts are identical for both vertical and horizontal Enduratrap models. All other renewable parts must be specified for specific model types.

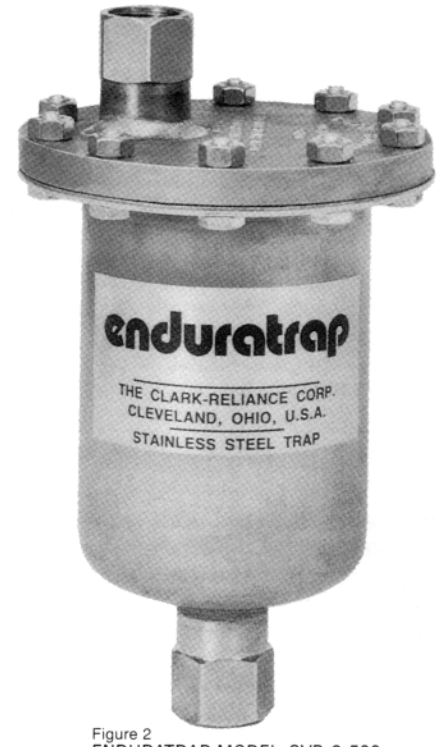



Figure 2
ENDURATRAP MODEL SVB-2-500

Figure 3
ENDURATRAP MODEL SHB-3-500

**TABLE I: ENDURATRAP MODELS FOR LOW PRESSURE**

| MODEL NUMBER | SIZE CONN. | MAXIMUM PRESSURE | MAXIMUM TEMPERATURE* | CAPACITY RANGE (PPH) | NET WEIGHT |
|---|---|---|---|---|---|
| Vertical: | | | | | |
| SVB-2-500 | ½" (15mm) | 500PSI (3400kPa) | 600° F (315° C) | 1600/2700 | 3.5 lb. (1.58kg) |
| SVB-3-500 | ¾" (20mm) | 500PSI (3400kPa) | 600° F (315° C) | 1600/2700 | 3.5 lb. (1.58kg) |
| SVB-2-S/W | ½" (15mm) | 500PSI (3400kPa) | 600° F (315° C) | 1600/2700 | 3.7 lb. (1.67kg) |
| SVB-3-S/W | ¾" (20mm) | 500PSI (3400kPa) | 600° F (315° C) | 1600/2700 | 3.7 lb. (1.67kg) |
| Horizontal: | | | | | |
| SHB-2-500 | ½" (15mm) | 500PSI (3400kPa) | 600° F (315° C) | 1600/2700 | 4.5 lb. (2.03kg) |
| SHB-3-500 | ¾" (20mm) | 500PSI (3400kPa) | 600° F (315° C) | 1600/2700 | 4.5 lb. (2.03kg) |
| SHB-2-S/W | ½" (15mm) | 500PSI (3400kPa) | 600° F (315° C) | 1600/2700 | 4.7 lb. (2.12kg) |
| SHB-3-S/W | ¾" (20mm) | 500PSI (3400kPa) | 600° F (315° C) | 1600/2700 | 4.7 lb. (2.12kg) |

## ENDURATRAP OPERATING FEATURES INCREASE EFFICIENCY, PERFORMANCE

VERTICAL MODELS:
SVB SERIES

HORIZONTAL MODELS:
SHB-500 SERIES

**Duo-Step Leverage** is an exclusive Clark-Reliance feature employing *two trap lever fulcrums.* This design produces added force to "crack" trap valves and also allows the extended travel required to open orifices fully — preventing wire drawing. Duo-Step Leverage allows larger discharge orifices without increasing trap size.

**Inlet Stand Pipe** improves Enduratrap reliability by preventing the loss of trap prime.

**Center Guide Tube** directs flow of water to bottom of trap, minimizing water hammer. Guide tube also assures proper alignment of operating parts, prohibiting bucket from touching trap walls and allowing positive closing of trap valve. Trap performance is greatly improved, particularly in light duty situations.

**Drain Port** facilitates periodic removal of drain sediment and dirt from horizontal Enduratrap models. Drain ports are standard features on only strainer-equipped models – optional on horizontal models.

**Valve Assembly** features heat treated seat and disc for superior wear resistance and extended service life. All Valve Assembly components are renewable.

## ENDURATRAP VERTICAL SVB SERIES

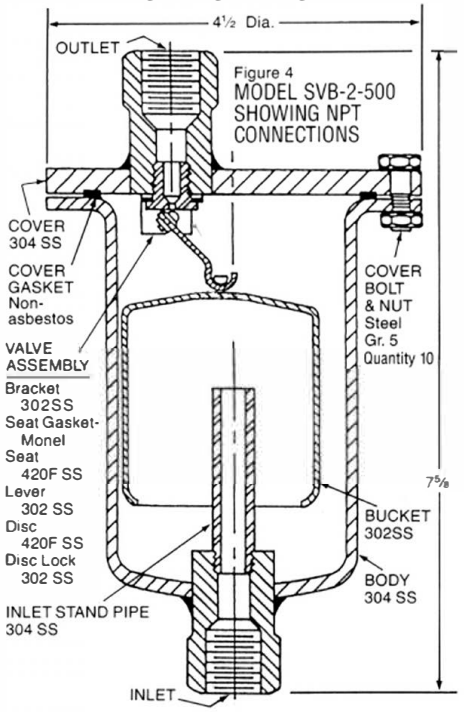



Figure 4
MODEL SVB-2-500
SHOWING NPT
CONNECTIONS

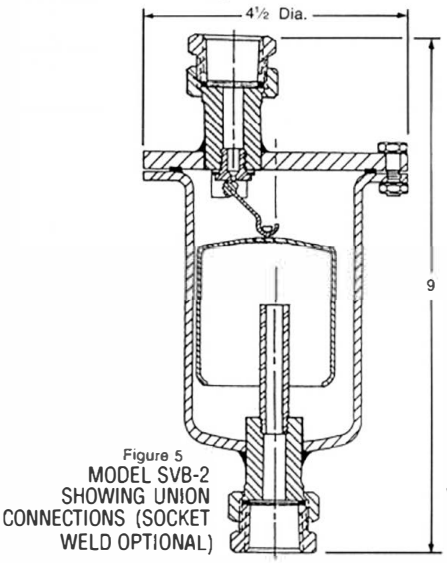
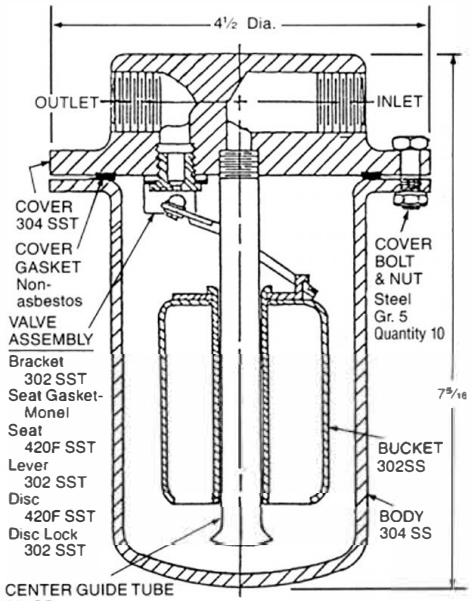



Figure 5
MODEL SVB-2
SHOWING UNION
CONNECTIONS (SOCKET
WELD OPTIONAL)

## ENDURATRAP HORIZONTAL SHB-500 SERIES

Figure 6
MODEL SHB-2-500
SHOWING NPT
CONNECTIONS



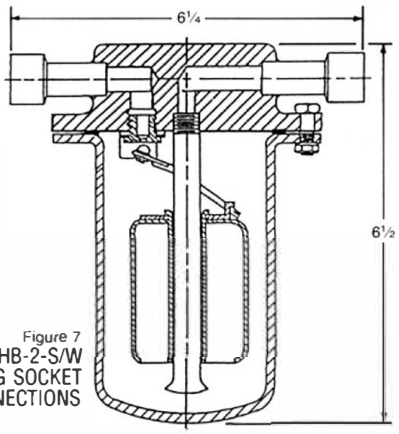




Figure 7
MODEL SHB-2-S/W
SHOWING SOCKET
WELD CONNECTIONS

**TABLE II: CONTINUOUS DISCHARGE CAPACITIES IN POUNDS PER HOUR • ENDURATRAP SVB & SHB-500 SERIES**

| | 30 | 50 | 80 | 100 | 125 | 150 | 180 | 200 | 250 | 300 | 400 | 500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½" MODELS | 2200 | 2350 | 2510 | 2430 | 2700 | 1700 | 1800 | 1880 | 1720 | 1800 | 2000 | 1600 |
| ¾" MODELS | 2200 | 2350 | 2510 | 2430 | 2700 | 1700 | 1800 | 1880 | 1720 | 1800 | 2000 | 1600 |
| ORIFICE DIA. | 19/64" | 9/32" | 7/32" | 13/64" | 13/64" | 5/32" | 5/32" | 5/32" | 1/8" | 1/8" | 1/8" | 7/64" |

*For additional information, contact your local Clark-Reliance representative*

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