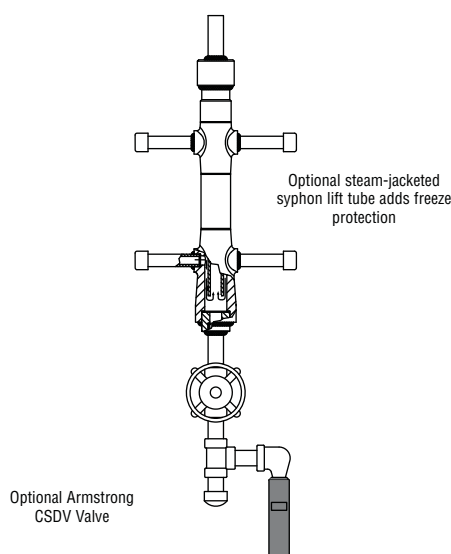




CCA-203-04 with TVS-4000

(shown with optional nipples, drain valve and TVS-4000 with 2000 Series Inverted Bucket all stainless steel steam traps)

Armstrong combines its Trap Valve Stations (TVS) with manifolds into a package called the CCA-203 Condensate Collection Assembly. This prepackaged assembly offers many great benefits – cost savings in assembly, design flexibility and reduced purchasing and design time. The CCA-203 with TVS-4000 or TVS-5000 **guaranteed for 3 years**.

Cost Savings

This preassembled concept offers tremendous savings by reducing multiple component purchases that cause additional purchase order monitoring and shipping costs. Other savings include far less labor time required for field assembly.

This modular forged steel body design provides quick assembly/delivery, reducing overall project costs.

- Eliminates multiple component purchases
- Reduced design specification costs
- Prefabrication vs. field assembly for easy installation
- Reduced shipping and field handling costs
- Lower long-term maintenance and operating costs
- 3-years guarantee

Design Flexibility

Armstrong can meet virtually any design parameter with your choice of socketweld or threaded connections. Inverted bucket, bimetallic, thermostatic bellow, thermostatic wafer or disc steam traps can be provided. If you require a specific piping arrangement, Armstrong can offer the flexibility to meet your specifications.

- All existing steam trap types could be used
- Dimensional consistency
- Space savings
- Freeze protection option
- Insulation jacket available

Materials

Manifold body:

ASTM A105 forged steel
All Stainless Steel 304L available on request

Freeze Protection Package (CCAF) – Optional

A manifold assembly for more efficient condensate return has another benefit – freeze protection. Armstrong's innovative manifold design actually serves as a heat station, heating one or more traps if the steam supply is interrupted or shut off to the traps. The protection is accomplished as long as one trap continues to discharge into the manifold. The manifold's internal syphon tube creates a water seal, which contains the flash steam from the discharge of the live trap. This allows radiant heat to protect shut-off traps from freezing.

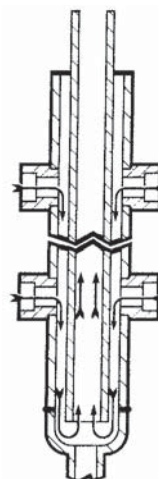
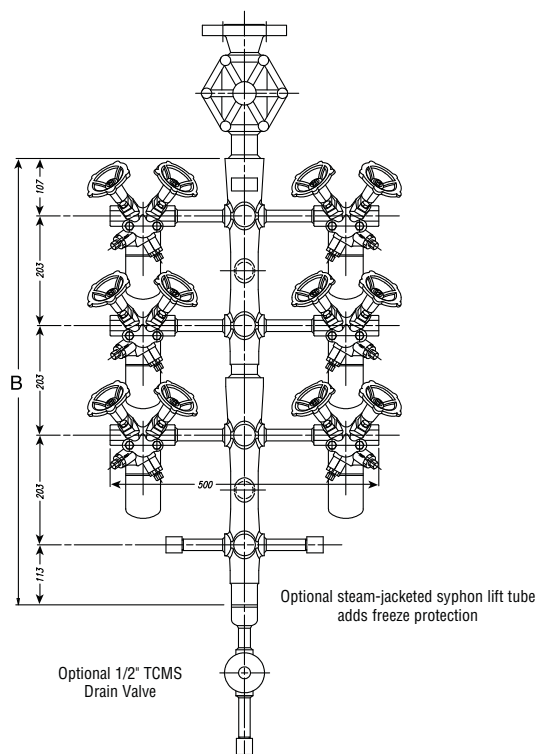
An optional freeze protection valve package senses condensate temperature. When this device opens, it drains condensate from the manifold assembly, thus providing further freeze protection.

Removable Insulation Jackets

A removable insulation jackets are available for all steam and condensate manifolds.

- Inexpensive
- Quick to install
- Removable for maintenance
- Reusable after maintenance
- Weatherproof
- Formed to cover all manifold elements
- Strong, durable cover
- Available to fit all manifold sizes

CCA-203 Condensate Collection Assembly with TVS



Optional Freeze Protection
Improves condensate flow inside of the manifold's body, thus giving better protection against freezing.

**CCA-203-08 with 6 x TVS-4000 Trap Valve Station
with 2000 Series Inverted Bucket Traps**

Table STE-195-1. CCA-203 Condensate Collection Assembly (dimensions in mm)					
Model	CCA-203-04	CCA-203-06	CCA-203-08	CCA-203-10	CCA-203-12
Number of tracers	4	6	8	10	12
"B" Manifold Height (SW)	423	626	829	1 032	1 235
Drain Connection	1 1/2" SW				
Manifold Outlet	1 1/2" SW				
TVS Connection	1/2" and 3/4" – Socketweld and Screwed NPT				
Weight in kg (manifold only)	20	30	40	50	60
Maximum Allowable Pressure	42 bar @ 427°C				

All CCA-203 models are CE Marked according to the PED (97/23/EC). TVS-4000 complies with the Article 3.3 of the same directive. For traps, please check the specific page.

Options

Top Outlet:

- Socketweld
- Flanged DIN or ANSI
- Gate valve 1 1/2" SW or Flanged

Drain:

- 1/2" or 3/4" SW reducer
- TCMS piston valve

Insulation:

- Armstrong Insulation Jacket
- Modular or 1 piece versions
- Insulation jackets could be installed without removing the handwheels

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.