

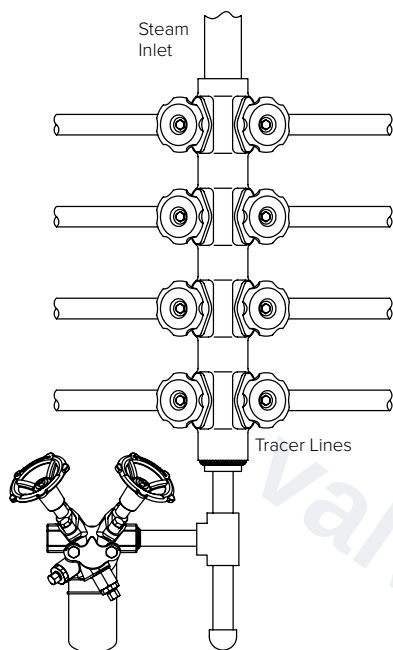
As Steam Distribution Assemblies (MSD/SMSD), the manifolds place all steam supply valves in one location. Standardizing components and centralizing their location simplifies installation while providing cost savings. You also save because routine maintenance is faster. Insulation can also be provided...and can be a major savings in most installations.

## Cost Savings

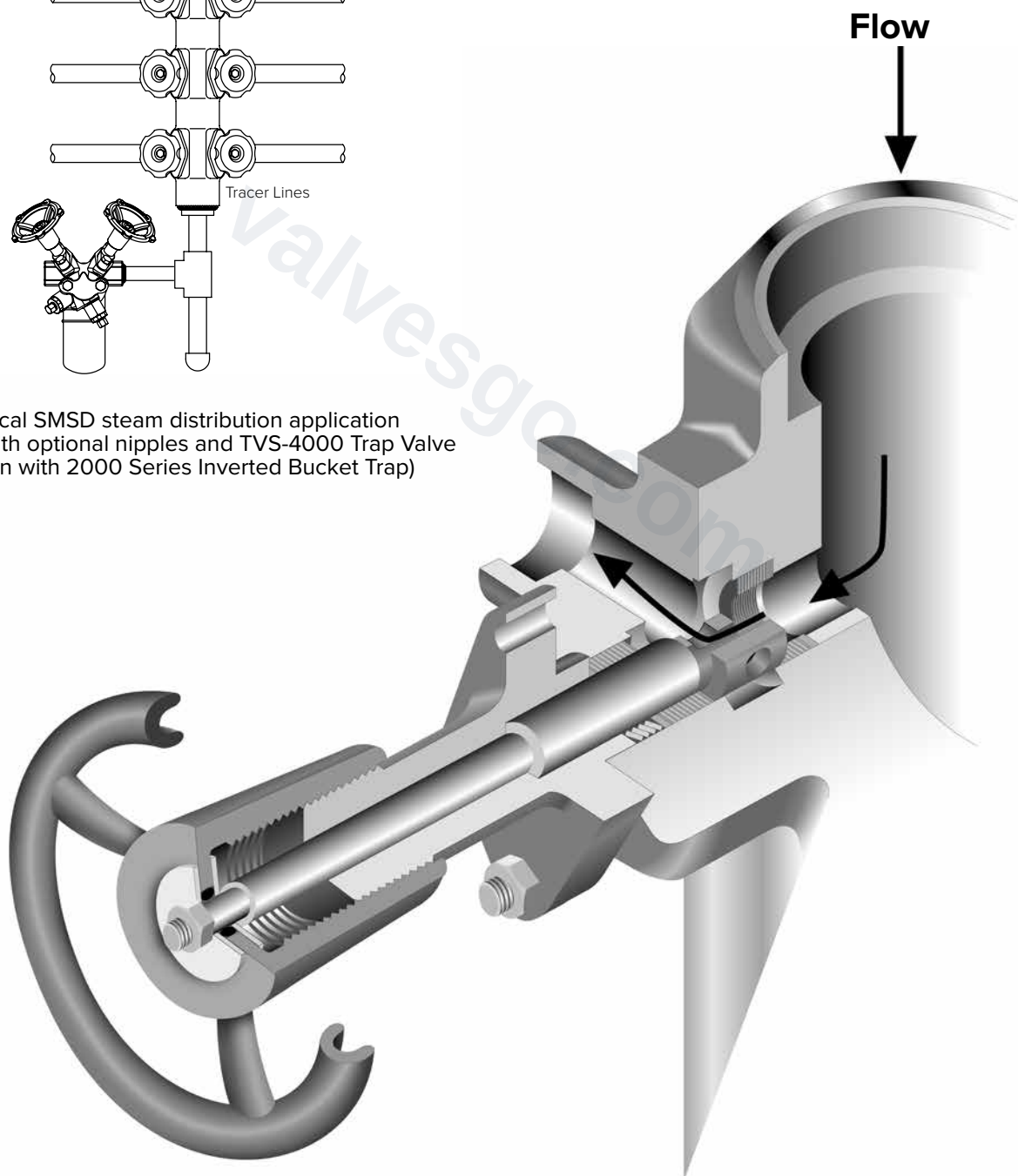
- Reduced design specification costs
- Prefabrication vs. field assembly for easy installation
- Reduced shipping and field handling costs
- Lower long-term maintenance and operating costs
- **3-years guarantee**

## Design Flexibility

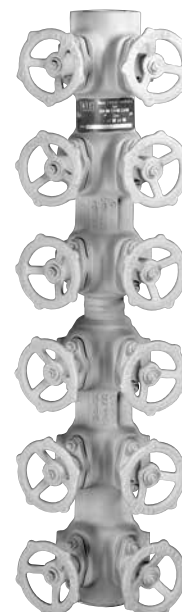
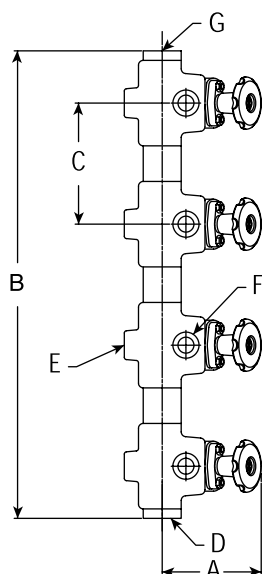
- Dimensional consistency
- Space savings
- Insulation package available



Typical SMSD steam distribution application  
(shown with optional nipples and TVS-4000 Trap Valve Station with 2000 Series Inverted Bucket Trap)



# MSD & SMSD Manifolds for Steam Distribution



**Table STE-203-2. MSD and SMSD List of Materials**

| Name                | Material                                              |
|---------------------|-------------------------------------------------------|
| Manifold Body       | ASTM A105 Forged Steel                                |
| Handwheel           | Ductile Iron                                          |
| Bonnet              | ASTM A105 Forged Steel                                |
| Spring Washer       | Stainless Steel                                       |
| Bolts and Nuts      | Bolts: ASTM A193 grade B7<br>Nuts: ASTM A194 grade 2H |
| Piston & Stem       | 17% Chrome Stainless Steel                            |
| Valve Sealing Rings | Expanded Graphite & Stainless Steel                   |
| Bushing, Valve      | Stainless Steel                                       |

## Options

### Top Inlet:

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

### Drain:

- 1/2" or 3/4" SW reducer
- TCMS piston valve
- TVS-4000 with 2011 steam trap (horizontal or vertical piping)

### Insulation:

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

**Table STE-203-2. MSD and SMSD Steam Distribution Manifolds (dimensions in mm)**

| Model                                         | MSD Series                                 |       |       | SMSD Series                                |        |        |
|-----------------------------------------------|--------------------------------------------|-------|-------|--------------------------------------------|--------|--------|
|                                               | MSD04                                      | MSD08 | MSD12 | SMSD04                                     | SMSD08 | SMSD12 |
| Number of tracers                             | 4                                          | 8     | 12    | 4                                          | 8      | 12     |
| "A" Open Position                             | 118                                        | 118   | 118   | 118                                        | 118    | 118    |
| "B" Manifold Height (SW)                      | 272                                        | 596   | 920   | 240                                        | 480    | 720    |
| "C" $\varnothing$ to $\varnothing$            | 162                                        | 162   | 162   | 120                                        | 120    | 120    |
| "D" Drain Connection                          | 1-1/2" SW                                  |       |       | 1-1/2" SW                                  |        |        |
| "E" Number of Holes for Mounting (1/2 - 14 M) | 2                                          | 4     | 6     | 2                                          | 4      | 6      |
| "G" Inlet                                     | 1-1/2" SW                                  |       |       | 1-1/2" SW                                  |        |        |
| "F" Outlet to tracer                          | 1/2" and 3/4" – Socketweld and Screwed NPT |       |       | 1/2" and 3/4" – Socketweld and Screwed NPT |        |        |
| Weight in kg (SW)                             | 10                                         | 21    | 30    | 9                                          | 18     | 27     |
| Maximum Operating Pressure                    | 32 bar @ 400°C                             |       |       |                                            |        |        |

All MSD and SMSD models are CE Marked according to the PED (2014/68/UE). For TVS and traps, please check the specific page.

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