C400 EMERGENCY RELIEF VENTS
FOR STORAGE TANKS AND VESSELS

Exposure to an external fire source may result in larger volumes of vapour. A significant amount of heat may be transferred through the tank shell and the volume of vapours generated as a result of this heat input can be substantial. Providing a means of discharging this large volume of vapours and prohibiting an increase of pressure within the tank is defined as emergency venting.

The C400 Emergency Relief Vent (ERV) ensures that tanks and vessels are kept safe during periods of excessive pressure due to or external fire sources and also allows access to the tank for inspection and cleaning purposes.

Safety and standards
Construction:  API 650, API 653, API 2000, EN14015, EEMUA 159 and most end-user standards
Safety:  ATEX, PGS 29
Emissions:  API Chapter 19

C400 ERVs are factory tested and fully certified, based on full compliance with our ISO 9001 quality assurance system. All products are from European origin and available with applicable ATEX, PED or CE certification (certified by Lloyds).

Solutions
• Pressure range 4 mbarg (40 mm WC – water column) to 140 mbarg (1,430 mm WC – water column)
• Size range 10” (250 mm) – 36” (900 mm)
• Flanged as per ANSI or DIN
• Counter balance or screw down
• Lightweight design provides easy handling whilst interchangeable components ensure that standard parts and seats can be easily replaced
• Seating design ensures minimum leakage < 0.03 m³/hour at 90% of set pressure
• Seats designed to ensure that condensate drains away from all seating areas (self-draining)
• Two types of manway which are either a long arm or counter balance for very light settings
C400 EMERGENCY RELIEF VENTS

Construction
Body material: Aluminium, CS or SS 316 (1.4401)
Trim material: SS 316 (1.4401)
Diaphragm: PTFE (Teflon®) or FEP (Fluorinated Ethylene Propylene)

Numerous options are available for special applications. Special materials such as Hastelloy, Monel and various plastics can be supplied to suit the most hazardous environments. Special coatings can also be applied for even more demanding service. For low temperature duties or in services with polymerizing products, internal parts should be PTFE coated to improve operational reliability.

For non-standard applications please contact us for the best possible solution.

PRODUCT DATA

<table>
<thead>
<tr>
<th>C400 CB (Counter Balanced) Emergency relief vent, main dimensions</th>
<th>C400 SD (Screw Down) Emergency relief vent, main dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal size</td>
<td>A</td>
</tr>
<tr>
<td>inches (mm)</td>
<td>mm</td>
</tr>
<tr>
<td>10 (250)</td>
<td>254</td>
</tr>
<tr>
<td>12 (300)</td>
<td>305</td>
</tr>
<tr>
<td>16 (400)</td>
<td>406</td>
</tr>
<tr>
<td>18 (450)</td>
<td>457</td>
</tr>
<tr>
<td>20 (500)</td>
<td>508</td>
</tr>
<tr>
<td>24 (600)</td>
<td>610</td>
</tr>
<tr>
<td>30 (750)</td>
<td>762</td>
</tr>
<tr>
<td>36 (900)</td>
<td>910</td>
</tr>
</tbody>
</table>

Construction
Body material: Aluminium, CS or SS 316 (1.4401)
Trim material: SS 316 (1.4401)
Diaphragm: PTFE (Teflon®) or FEP (Fluorinated Ethylene Propylene)

Numerous options are available for special applications. Special materials such as Hastelloy, Monel and various plastics can be supplied to suit the most hazardous environments. Special coatings can also be applied for even more demanding service. For low temperature duties or in services with polymerizing products, internal parts should be PTFE coated to improve operational reliability.

For non-standard applications please contact us for the best possible solution.

All our product information and specifications are drafted with care but can be subject to change. We reserve the right to change product specifications.

HEAD OFFICE
CTS NETHERLANDS B.V.
Riga 10
2993 LW Barendrecht
The Netherlands
TEL +31 (0)185 313 027
FAX +31 (0)185 313 848
EMAIL netherlands@cts.global
WEB www.cts.global