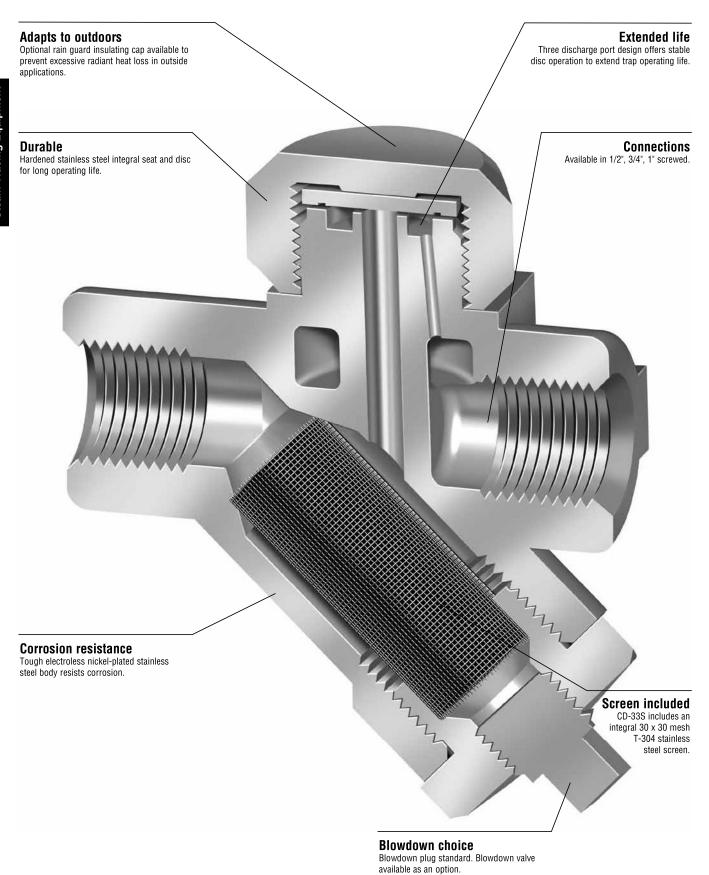


CD-33/CD-33S Controlled Disc Steam Traps



CD-33/CD-33S Controlled Disc Steam Traps



The Armstrong CD-33 is a controlled disc style trap designed to control the trap's cycle rate. By reducing the cycle rate, the Armstrong CD-33 will have a longer service life than typical disc traps. This enhanced performance will ensure that maintenance time is minimized and steam costs are greatly reduced.

The CD-33 is designed with three discharge ports, which offer stable disc operation to extend trap operating life. The capacities of the Armstrong CD-33 have been engineered specifically for the following applications: large steam main drips, process equipment, and HVAC heating equipment on constant pressure. The CD-33L (low capacity) trap is designed for the low capacity applications of steam main drips and steam tracing lines. By ensuring that the capacities are designed to suit the application, and are not oversized, the CD-33 Series will last longer than other disc traps with excessive capacity ratings.

Advantages

- Three discharge port design
 - · Minimum wear with controlled cycling
- Freeze-resistant
- Hardened seat and disc

Specification

Steam trap shall be stainless steel controlled disc type, integral seat design with hardened disc and seating surfaces, and electroless nickel plated finish. When required, trap shall be supplied with an integral Y strainer, integral blowdown valve or rain guard insulating cap. Maximum allowable pressure (vessel design) shall be 63 bar @ 400°C. Maximum operating pressure shall be 42 bar @ 400°C.

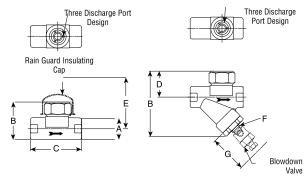




CD-33 Series Controlled Disc Steam Traps

All Stainless Steel

For Pressures to 41 bar...Capacities to 1 130 kg/h



CD-33/CD-33L Series

CD-33S/CD-33SL Series with Integral Strainer

The Armstrong CD-33 is a controlled disc style trap designed to control the trap's cycle rate. By reducing the cycle rate, the Armstrong CD-33 will have a longer service life than typical disc traps. This enhanced performance will ensure that maintenance time is minimized and steam costs are greatly reduced.

The CD-33 is designed with three discharge ports, which offer stable disc operation to extend trap operating life. The capacities of the Armstrong CD-33 have been engineered specifically for the following applications: large steam main drips, process equipment, and HVAC heating equipment on constant pressure. The CD-33L (low capacity 1/2" and 3/4" only) trap is designed for the low capacity applications of steam main drips and steam tracing lines. By ensuring that the capacities are designed to suit the application, and are not oversized, the CD-33 Series will last longer than other disc traps with excessive capacity ratings

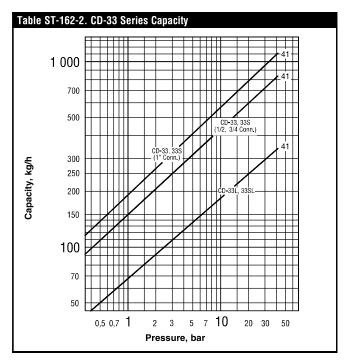
Connections

Screwed BSPT and NPT

Specification

Steam trap shall be stainless steel controlled disc type, integral seat design with hardened disc and seating surfaces, and electroless nickel plated finish. When required, trap shall be supplied with an integral Y strainer, integral blowdown valve or rain guard insulating cap. Maximum allowable pressure (vessel design) shall be 63 bar @ 400°C. Maximum operating pressure shall be 41 bar @ 252°C.

Table ST-162-1. List of Materials	
Name of Part	Material
Body	ASTM A743 Gr. CA40
Cap	ASTM A743 Gr. CA40
Disc	ASTM A276 Gr. 420
Strainer Screen	30 x 30 Mesh T-304 Stainless Steel
Screen Retainer	ASTM A743 Gr. CA40
Blowdown Plug (CD-33S only)	Carbon Steel
Options	
Blowdown Valve	Stainless Steel
Rain Guard Insulating Cap (1/2", 3/4" Sizes Only)	Stainless Steel



Note: CD traps can operate with minimum of 0,15 bar inlet pressure and a maximum of 80% back pressure. However, for best results, inlet pressure should not drop below 0,70 bar and back pressure should not exceed 50% of inlet pressure.

Table ST-162-3. CD-33 Series Trap (dimensions in mm)							
Model No.	CD-33		CD-33S (with strainer)		CD-33L (low capacity)	CD-33SL (with strainer) (low capacity)	
Pipe Connections	15 – 20	25	15 – 20	25	10 – 15 – 20	15 – 20	
«A» Body Diameter	37	44	37	44	37	37	
«B» Height	63	79	108	121	63	108	
«C» Face-to-Face (screwed)	84	100	90	105	84	90	
«D» C to Top of Cap	44	57	44	57	44	44	
«E» Withdrawal Distance Rain Guard Insulating Cap	_	_	76	76	_	76	
«F» Blowdown Connection Size	_	_	1/4" NPT	1/4" NPT	_	1/4" NPT	
«G» Withdrawal Distance Blowdown Valve	_	_	89	89	_	89	
Weight in kg	0,64	1,1	1,0	1,5	0,64	1,0	
Maximum Allowable Pressure	63 bar @ 400°C						
Minimum Operating Pressure	0,24 bar						
Maximum Operating Pressure	41 bar @ 252°C						

All models comply with the article 3.3 of the PED (97/23/EC).

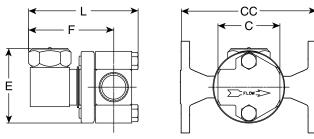
All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

CD-3300 Controlled Disc Steam Trap

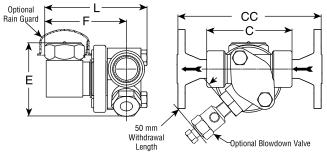
All Stainless with 360° Connector

For Pressures to 31 bar...Capacities to 360 kg/h





CD-3300 with Standard Connector



CD-3300 with IS-2 Connector with Integral Strainer

The Armstrong CD-3300 is a three discharge port design, which provides stable disc operation to extend operating life.

The CD-3300 is piped in-line by a 360° universal connector which allows you to install the trap in virtually any piping configuration. Armstrong's unique standard connector or its IS-2 connector with integral strainer makes the CD-3300 easy to install, easy to renew. You save on labor time and cost because the connector simplifies piping and remains in-line.

Materials

ASTM A743 CA40 Trap cap: ASTM A276 Gr.420 Trap disc: Trap body: ASTM A276 Gr.420 Standard connector: Stainless steel - 304

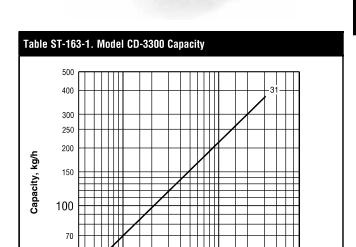
IS-2 connector with

ASTM A351 Gr.CF8 integral strainer:

20 x 20 mesh 304 SS Screen

Connections

Screwed BSPT and NPT Socketweld Flanged DIN or ANSI (welded)



Note: CD traps can operate with minimum of 0,15 bar inlet pressure and a maximum of 80% back pressure. However, for best results, inlet pressure should not drop below 0,70 bar and back pressure should not exceed 50% of inlet pressure.

3

5 Pressure, bar

7 10

30 50

Options

Rain guard insulating cap Blowdown valve - IS-2 connector only

0,5 0,7 1

Model No.	CD-3300					
	Standard Connector	IS-2 Connector w/Integral Strainer				
Pipe Connections	15 – 20 – 25	15 – 20 25				
"C" Face-to-Face (screwed & SW)	60 - 60 - N/A	89	102			
"CC" Face-to-Face (flanged PN40*)	150 – 150 – 160	150	160			
"L" Overall Length	106	106	106			
"H" Overall Height	76	76	89			
"F" C to Body End	86	86	86			
Blowdown Connection Size	_	1/4" NPT	1/4" NPT			
Weight in kg (screwed)	1,6	1,8	2,0			
Weight in kg (flanged PN40*)	3,3 - 3,9 - 4,4	3,5 – 4,1	4,8			
Maximum Allowable Pressure†	50 bar @ 400°C					
Maximum Operating Pressure	31 bar @ 236°C					

^{*} Standard flanges are in carbon steel, stainless steel flanges are optional. Other flange sizes, ratings and face-to-face dimensions are available on request. All sizes comply with the article 3.3 of the PED (97/23/EC).

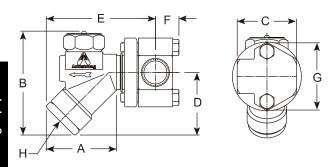
All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

[†] May be derated depending on flange rating and type.



CD-3300S Series Controlled Disc Steam Traps All Stainless Steel with 360 °C Connector

For Pressures to 31 bar...Capacities to 363 kg/h



The Armstrong CD-3300S is a three discharge port design, which provides stable disc operation to extend operating life.

The CD-3300S is piped in-line by a 360° universal connector, which allows you to install the trap in virtually any piping configuration. Armstrong's unique standard connector makes the CD-3300S easy to install, easy to replace. You save on labor time and cost because the connector simplifies piping and remains in-line.

CD-3300S is designed with integral strainer, do not use connector with integral strainer to install the trap but standard connector.

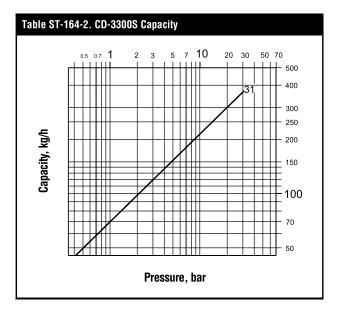
Materials Trap Body ASTM A743 Gr. CA40 Trap Cap ASTM A743 Gr. CA40 ASTM A276 Gr. 420 Disc Screen Retainer ASTM A743 Gr. CA40 Blowdown Plug Carbon steel

How to Order

- Connector: Specify size and connection NPT/BSPT/SW (Flanged Consult Factory)



Table ST-164-1. CD-3300S Disc Trap with standard connector					
Model	CD-3300S with standard connector				
Pipe Size	1/2"	3/4"			
«A»	70				
«B»	105				
«C»	60				
«D»	64				
«E»	111				
«F»	20				
«G»	70				
«H» (Blowdown connector)	1/2" NPT				
Weight (kg)	1,9				
Maximum Operating Pressure	31 bar @ 236 °C				
Maximum Allowable pressure (Vessel Design)	50 bar @ 400 °C				



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