

# spirax

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## Universal Balanced Pressure Thermostatic Steam Trap - UBP21CV

### Description :

The UBP21CV is a maintainable balanced pressure steam trap manufactured in Stainless Steel. It is designed for steam pressure up to 21 bar g. When installed with a suitable pipeline connector the UBP21CV can easily and simply removed without breaking into the pipeline thus speeding up trap replacement with minimum system downtime. Pipeline connectors are available with screwed & socket weld connections. The UBP21CV is recyclable. It can be supplied with an inbuilt check valve designated UBP21CV.

### Capsule Operations :

As standard the UBP21CV is supplied with a thermostatic capsule ('E' Fill) which operates approximately 12 °C below steam saturation temperature. It can also be supplied with capsules operating near to steam 4 °C below ('G' Fill) or sub cooled 22 °C below ('F' Fill).

### Size & Pipe Connections :

UBP21CV can be fitted to Pipeline connector- PC01 See the separate Technical Information Sheet for details of connections available on Pipeline Connector.

### Limiting Conditions :

Maximum operating conditions  
 PMO - Max Operating Pressure = 21 bar g  
 TMO - Max Operating Temperature = 285 °C  
 Max Cold hydraulic test pressure = 42 bar g.

**Note :** The model of pipeline connector & connection selected will dictate the maximum operating pressure & temperature of the complete assembly. Consult the specified technical information sheet for this information.

### Installation :

The UBP21CV can be installed on PC01 Pipeline connector in any plane. See separate installation & maintenance instructions for Spirax Marshall PC01 pipeline connector. Remove the protective plastic cover and ensure that both gaskets are clean and undamaged and that the transfer holes are clear. Place the UBP21CV body against the connector gasket face and apply a small amount of anti-seize compound to the threads of the connector screws (13). Tighten screws finger tight and ensure that the trap body is parallel to the connector. Tighten the screws to the recommended torque. Open isolation valves slowly until normal operating conditions are achieved. **Check for leaks.**

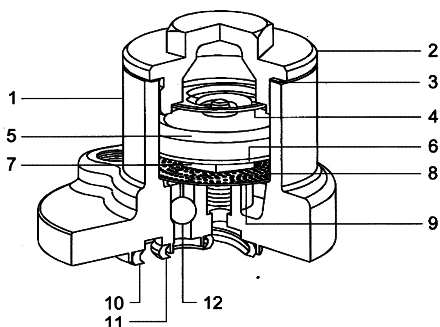


Fig. 1

6.1

### Material :

No.	Item Description	Material Specification
1.	Body	CF8-ASTM A351
2.	Cap	CF8-ASTM A351
3.	Gasket	Stainless steel
4.	Spring	Stainless steel - ASTM A276 302
5.	Capsule	Stainless Steel
6.	Spacer Plate	Stainless steel - ASTM A276 304
7.	Seat	Stainless steel - ASTM A276 431
8.	Screen	Stainless steel - ASTM A276 304
9.	Gasket	Stainless steel
10.	Spiral Gasket-Inner	Stainless Steel / Graphite filler
11.	Spiral Gasket-Outer	Stainless Steel / Graphite filler
12.	Ball	Stainless Steel
13.	Connector screws	Carbon Steel - HT Gr. 8.8

### Maintenance :

Before undertaking any maintenance on the trap it must be isolated from both supply line and return line and any pressure allowed to safely normalize to atmosphere. The trap should then be allowed to cool to ambient temperature. Always ensure that the correct tools, safety procedures and protective equipment are used at all times.

