

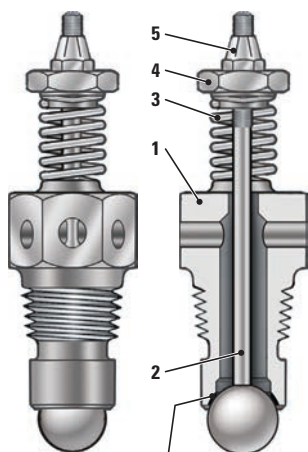
ACCESSORIES

VACUUM BREAKERS

Vacuum breakers should be installed wherever vacuum is created in pipelines or other equipment to ensure trouble free operation such as in heating coils for uninterrupted production and elimination of freezing.

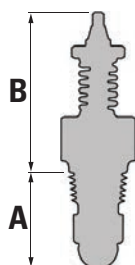
The units are factory set to operate at 5 inHg (mercury) (0.17 barg) vacuum but can easily be reset to suit plant conditions.

Other applications include: unit heaters, cooking kettles, blast coils, and air-conditioning equipment.



Seating face hardfaced with CoCr alloy and lapped with ball.

ENGINEERING DATA



SIZE NPT THREAD NPS/DN	ORIFICE in/mm	A in/mm	B in/mm	WEIGHT oz/g
1/2 15	1/2 13	1 1/2 38	2 3/8 60	4 112
3/4 20	5/8 16	1 11/16 43	2 3/4 70	8 224
1 25	3/4 19	2 3/16 56	2 3/4 70	11 308

STANDARD MATERIALS

PART	MATERIALS	SPECIFICATION
A Body	Stainless steel	BS 970-410S21
B Stem and ball	Stainless steel	Stem: BS 970-410S21 Ball: AISI 440C
C Compression spring	Stainless steel	BS 970-303S21
D Adjusting nut	Stainless steel	BS 970-410S21
E Self locking nut	Stainless steel	BS 970-304S15

THERMOMETER

The Velan thermometer is actuated by a bimetallic helix shaped strip, which is enclosed in stainless steel. Its strong design will withstand adverse conditions and combines reliability with accuracy. The thermometer can be recalibrated on the spot and can be supplied with the following scales and ranges of operation:

32° – 572°F (0° – 300°C)

Case diameter: 1 3/4" (45 mm)
Length: 1 1/2" (38 mm)
Screw connection: 1/4" NPT

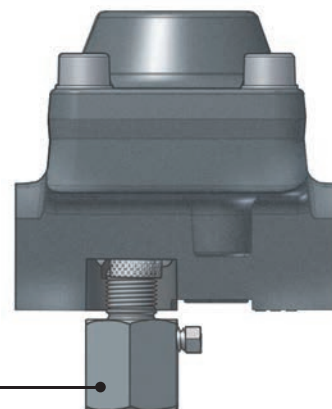
32° – 932°F (0° – 500°C)

Case diameter: 2 3/4" (70 mm) Length: 3 3/4" (95 mm)
Screw connection: 1/4" NPT



STRAINER BLOWDOWN VALVE

A rugged stainless steel blowdown valve can be installed below the strainer in Velan steam traps as an optional extra. Body and valve are both stainless steel hardened. A forged steel globe, stop or needle valve can be fitted for high pressure operation or where greater integrity is required.



Blowdown valve

Connections:

Inlet: NPS 3/8 (DN 10) male screwed NPT
Outlet: NPS 1/4 (DN 6) female screwed NPT

TEMPERATURE CONTROLLER

Available for SSF, SPF, SF and SP

Velan steam traps are factory set to discharge condensate below saturated steam temperature, to save energy up to 30% and no further adjustment is required provided the trap is properly selected based on capacity.

To change the discharge temperature you must turn the regulating nut of the temperature controller towards the bottom of the trap to increase the differential temperature or away from the bottom of the trap to decrease the differential temperature. The movement of the regulating nut is transferred directly without friction to the trap valve and the free movement of the valve is increased or decreased accordingly. The result of the setting can be determined by checking the condensate's temperature with a Velan thermometer installed on the trap.

Other uses for the temperature controller are:

- excessive back pressure can be compensated for by turning the controller away from the trap bottom,
- if condensate is backed up, a faster rate of discharge is obtained by turning the controller away from the trap bottom, increasing the valve clearance,
- if the trap leaks steam, and the seating faces are not dirty or damaged, turning the controller towards the trap bottom will reduce the valve clearance thus slowing the trap response time, preventing steam loss.

