



DESCRIPTION

A comprehensive range of magnetically- operated controls of the vertical type in float chambers for external mounting on stem boilers and pressure vessels under the brand ALERT. They are designed to meet all requirements for automatic on/off control of boiler feed pump, burner cut-out or lock- out high and/or low level alarm or a combination of these.

It is important that the controls should be mounted vertically, close to the boiler gauge glasses and with the water leg as short as possible. This will minimise any difference in water level between the gauge glass and the ALERT control float chamber.

HEMKUNT electronics specializes in customizing designs control relays and logics to specific customer needs for a wide range of applications. Please contact us to provide the optimal solution for your specific needs.

CONSTRUCTION

Float Chamber - Fabricated Carbon Steel with boiler flanges.

For Working Pressure - 300 PSI(22kg/cm²) side and bottom entry type and upto 42kg/cm² and side entry type.

Steam and Water Connections - Flanged or Weldable 1" dia.

Blow-down connections - BSP Parallel thread.

Float-and Float Rod - 304 Stainless Steel.

Switch Box - Die-cast aluminum cover and base galvanised steel casting.

Float Chamber Cover - Carbon Steel with stainless steel centre tube.

Conduit entries - 1" B.S. 16 TPI.

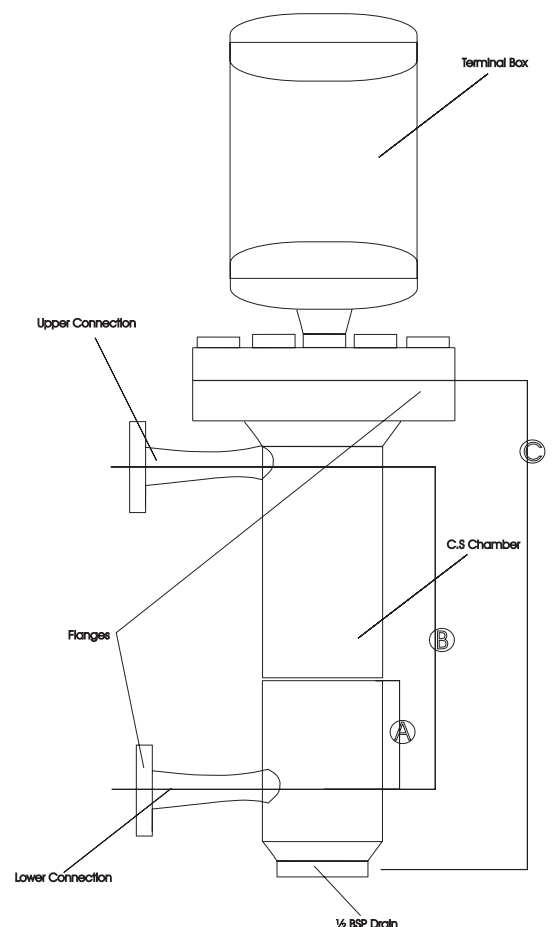
Control Range - 150mm.

Electrical Connections - 1 NO)

Two units

1 NC)

**Two-switch control with high and low level alarm is designed to meet all requirements for automatic ON/OFF control.



HEMKUNT ELECTRONICS

Contact Details : Website- www.hemkuntelectronics.com
Email- hemkuntalert@gmail.com
Address- 4583/13 Jai Mata Market, Tri Nagar, Delhi- 110035
Telephone numbers- 011-27394466 ,+91-9810822092, +91-8800445952

OPERATION

A primary permanent magnet attached to the float rod slides vertically inside a non-magnetic stainless steel center tube and transmits the movement of the float to a secondary magnet in each switch unit .

Self-holding switch units, located on vertical support rods in proximity to the center tube and positioned by clamp screws, have two pairs of contacts which are operated with a snap action and held by repulsion between the secondary and tertiary magnets of the switch unit assembly .

ELECTRICAL CONNECTIONS

Single pole double throw operation capable of carrying the following currents :-AC

5A at 110V	50Hz
2A at 250V	50Hz
1A at 440V	50Hz

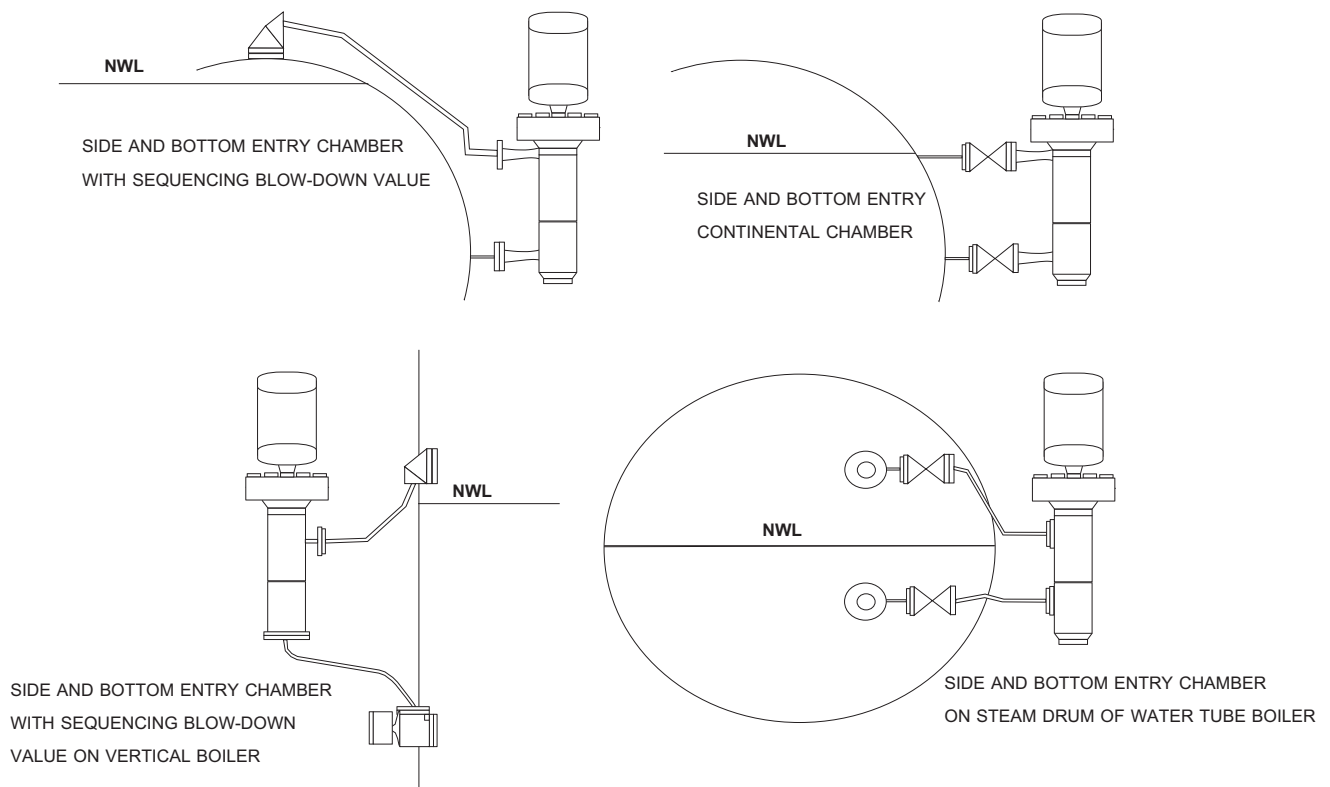
RECOMMENDED STANDARD RANGE TO SUIT

SELECTED APPLICATIONS

<u>Applications</u>	<u>Mechanism</u>	<u>Range</u>
<u>1</u> -For Pump or motorised valve control and low level alarm and burner cut-out.	Dual Operation (2 switches adjustable)	50 to 150mm
<u>2</u> -For high level alarm and pump cut-out if required and low level alarm with burner cut-out or lock-out. (2 switches adjustable)	High & Low Level	

TYPE AVAILABLE

TYPICAL MOUNTING ARRANGEMENTS OF AIR BREAK VERTICAL CONTROLS ON VARIOUS TYPES OF BOILER



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our product should be installed by a qualified personnel only, therefore any use of this application is at the installer's own risk and should be accessed appropriately.

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