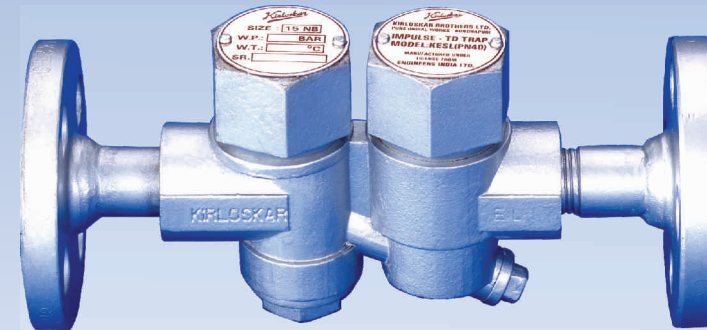




Enriching Lives



KIRLOSKAR
EFFICIENT ENERGY TRAPPING DEVICE (KEST)

As we are constantly endeavouring to improve the performance of our products/equipment, we reserve the right to make alterations from time to time and as such our products/equipment may differ from that detailed in this publication. For latest information you may get in touch with our Regional Sales Office.



Enriching Lives

**KIRLOSKAR
BROTHERS
LIMITED**

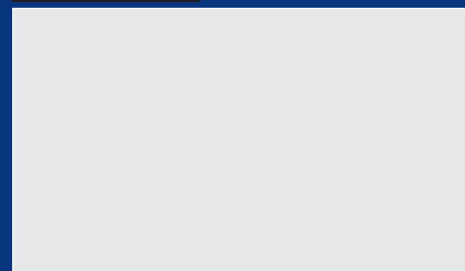
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India: Ahmedabad, Bangalore, Baroda, Bhubaneswar, Chennai, Jaipur, Kochi, Kolkata, Lucknow, Mumbai, Nagpur, New Delhi, Pune, Ranchi, Secunderabad.

Overseas : Ajman, Cairo, Johannesburg, Nairobi, Phnom Penh, UAE, USA, Vientiane



KIRLOSKAR BROTHERS LIMITED



FIRST OF KIND IN THE WORLD..

KIRLOSKAR BROTHERS LIMITED

Kirloskar Brothers Limited presents multi-concept, high energy saving, efficient Impulse cum Thermodynamic Steam Trapping Device

Impulse cum thermodynamic steam trap with two in-built strainers, in high alloy steel construction, best suited for steam tracers, header, main and branch lines, drains and drip legs.

This product has been designed and developed after extensive studies by scientists of Engineers India Limited at their Research & Development Centre, Gurgaon. The field trials for three years were also successfully conducted in refineries under actual conditions.

National Petroleum Management Programme (NPMP) under Ministry of Petroleum, Government of India has conferred an award to Engineers India Limited for excellence in 'Creativity and Innovation' for the year 2001-2002.

Salient Features

- Material of construction is selected to ensure excellent mechanical and corrosion resistant properties.
- The disc and seats are hardened by induction hardening to 45 HRC to enable it to withstand continuous water hammering and pulsating discharge.
- Two Strainer Screens are in-built to ensure long and trouble free operations. This facilitates removal of accumulated dirt, sludge and scales from the trap.

Specialities

- Negligible (zero) live steam loss (upto line pressure 3.5 bar)
- Condensate recovery and steam recovery feasible at the down stream of the trap.
- Discharges condensate consistently without any intermittent failure due to air binding, steam/ vapour lock and cavitation
- Field test results over extended period of time have demonstrated that condensate savings per trap per year for LP and MP steam comes to 23 metric Tonne and 18 metric Tonne respectively, compared to existing thermodynamic types of trap.
- Pulsating / intermittent discharge coupled with fluctuating pressure acting continuously below the disc (second stage) ensures consistent operation of the trap round the clock
- Trap functions at low noise level
- Cost recovery period for replacement is about two months.

Technical Specifications (As per ISO 6552)

Operating Pressure	Upto 31.64 bar (450 psig)
Operating Temperature	Upto 450 deg. C (842 deg.F)
Hydraulic Test Pressure	63 Bar (900 psig)
Maximum Operating Back Pressure	80% of upstream pressure
Minimum inlet pressure for satisfactory operation	0.25 bar (3.5 psig)

Sizes

15/20/25 mm DN (1/2", 3/4", 1"DN)

Piping Connection

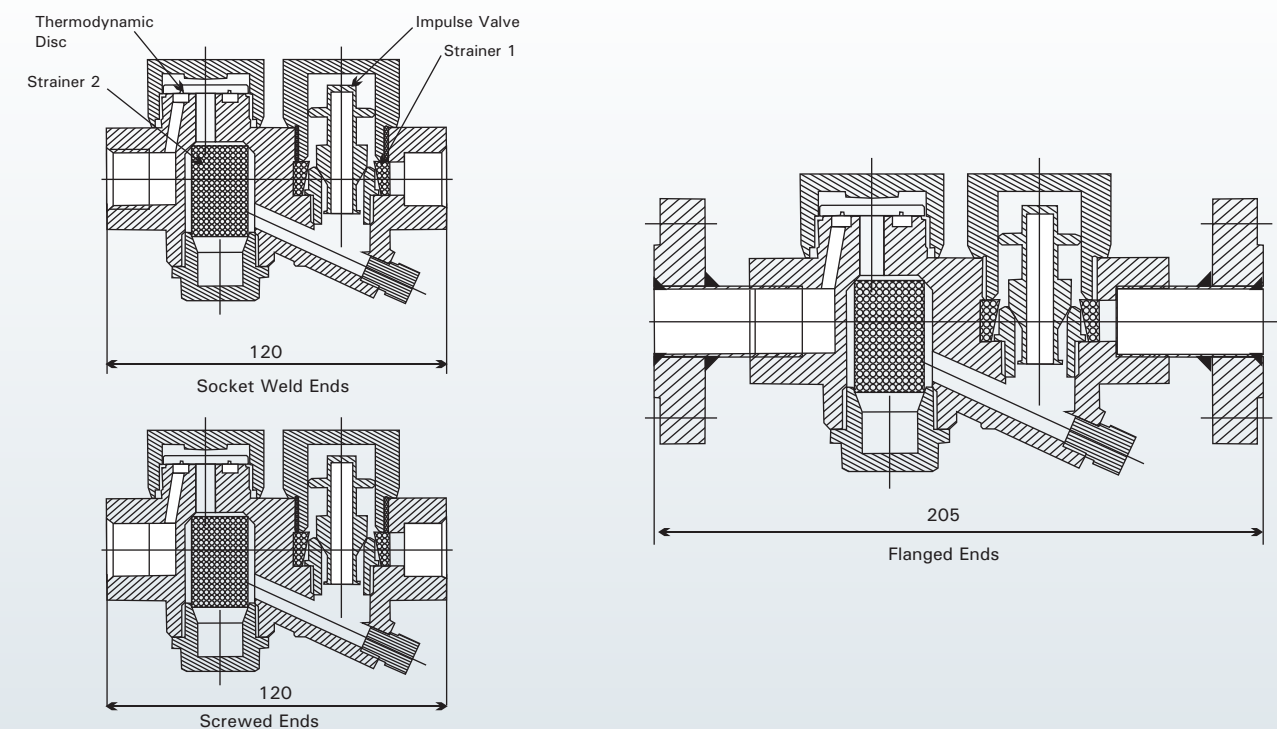
Screwed (BSP, BSPT, NPT), Socket weld, butt weld, flanged
*(ANSI B 16.5 class 150#, 300# and 600#

*Weld on flanges of forged carbon steel as per ASTM A105

Installations

Trap can be installed in any orientation / position such as horizontal (upright / down) or in vertical.

Typical dimension of 15 mm (1/2") Steam Trapping Device : (Dimensions in mm)



Material of Construction for models KESL and KESM

Item	Material
Body, Cap, Plug	ASTM A 743 Gr. CA40 / CA40F
Impulse Valve, Seat, Disc	AISI 420
Strainer	AISI 304

