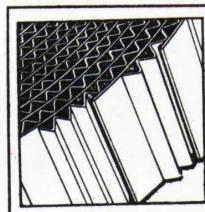
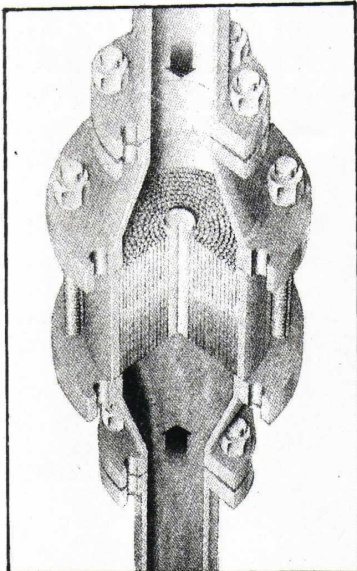


# Atmos<sup>®</sup> Flame Arrestors

**TELEFLO'S New Generation of Flame Arrestors**

• **DETONATION** • **END-OF-LINE DEFLAGRATION** • **IN-LINE DEFLAGRATION**



Fluidyne's precision made crimped metal element

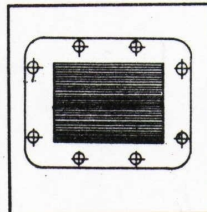
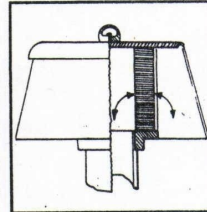
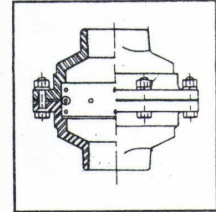


Plate stack type element



End-Of-Line with HOOD



In-Line Threaded/B.W.

## OPERATION:

Flame Arrestors stop the propagation of a flame by absorbing and dissipating heat through the large surface area of the bank sheets. Ignited vapour attempting to pass through the arrester is forced through small passages within the bank assembly. Heat is absorbed, lowering the temperature of the gas below its ignition point and quenching the flame. Flame Arrestors are typically used in the chemical, petrochemical and pharmaceutical industries on applications such as storage tank facilities, flare stacks, incineration systems, storage tank roofs or digester convertor to prevent the propagation of confined and unconfined deflagrations. Detonation flame Arrestors additionally stop the high pressures and velocities that can result in detonations. In case of ignition of vapours they burn harmlessly at the flame arrester, preventing ignition of vapours in the tank and subsequent explosion.

## DESIGN FEATURES:

The main benefits of the TELEFLO ATMOS<sup>®</sup>. Detonation flame Arrester are derived from its unique element design. The large channel openings provide excellent pressure drop to flow and enhanced flow characteristics often resulting in reducing overall size and cost of both Flame arrester and piping. In addition to this the less restrictive nature of the larger channel openings result in less clogging and easier cleaning - both important maintenance considerations. Finally the element enables higher operating pressures to be achieved. The TELEFLO ATMOS<sup>®</sup> Flame Arrester after extensive research has been certified and type tested by FCRI, B.V. and other government agencies, and has also received the most stringent approval for Flame Arrestors, incorporating extended burn time performance, and have acceptance with B.P.C.L., I.O.C.L., H.P.C.L., L & T & B.H.E.L., and many chemical, pharmaceutical and power industries.

## CONFIGURATION:

'FLUIDYNE ATMOS<sup>®</sup>' Flame Arrestors are available for all common gas groupings to IEC or NEC codes, and supplied in range of sizes/materials/options; Net Free Area - three to four times, Bank Assembly - estensible and removable. Special "off-set" housing design is not affected by condensate accumulation, even when installed in horizontal piping. The result is minimal pressure drop, increased flow capacity and heat dissipation. Ordering information given below:-

<b>Size:</b> 1" to 36" Refer graph for sizing.	<b>Location:</b> Within 15' (4.6m) upstream of flame source.	<b>Pressure Drop:</b> Refer graph, should not exceed 1 psi.	<b>Materials:</b> Low copper aluminium, steel, SS 304/316 stainless steel.
<b>Codes:</b> API, ASME, CCE, IS etc.	<b>Tests:</b> Type test, pr. drop, flame propagation, API 2000.	<b>Element:</b> Plate stack or crimped metal	<b>Installation:</b> In-line, end-of-line, inverted, weather hood requirement.

OUR OTHER PRODUCTS : Breather Valves, Emergency Vents, Gauge Hatch, Spark Arrestors



## TELEFLO INDIA CO. PVT. LTD

OFF : 70-D/3, CENTRAL AVENUE, ADJ. "HOTEL GRAND CENTRAL",  
CHEMBUR, MUMBAI 400 071, INDIA.  
Tel : 528 5345, 528 0073, 528 0784 • Fax : (022) 528 0642

# FLAME BANK CAPACITY GRAPH

API - 2000

