

# HELA-FLOW LATERALS

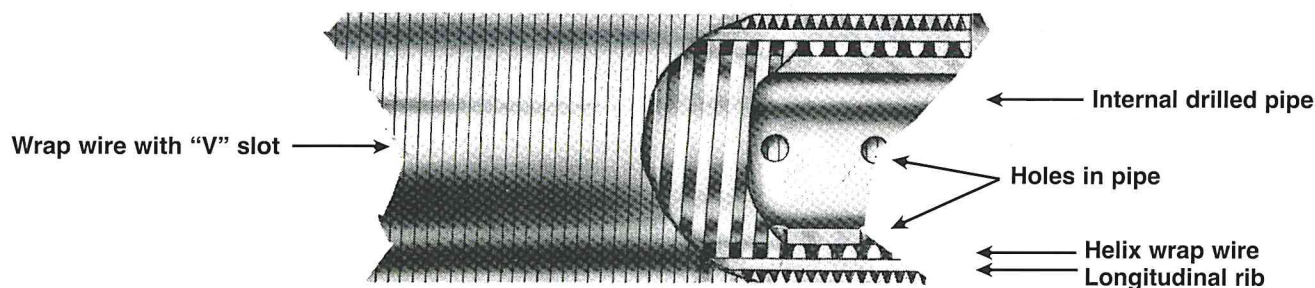
## 1. General

Hela-Flow laterals are designed to be used for media retention. They typically function as a collector during onstream cycles and a distributor during backwash cycles. Often, however, Hela-Flow laterals are used as distributors to improve the distribution pattern of incoming fluid as well as to prevent loss of media (which in some systems becomes fluidized during backwash) as the media rises to the level of the distributors during backwash. In the backwash cycles the distributors may thus serve as collectors.

Starting from the inside out, Hela-Flow screens offer

custom drilled hole patterns in the plastic pipe base to suit distribution requirements. Then the first plastic wire wrap is cemented in a helix around the pipe base with large spacings to form a continuous helical flow channel. Next, a longitudinal layer of support ribs is added to form longitudinal flow channels. The third wrap (outer wrap) is applied to form a continuous helix with an inward opening "V" slot. The outer wrap can be applied to give slot openings of .006" and up, to satisfy all media retention requirements. The "V" shaped plastic wire is nominally .130" on the top and .100" on the bottom with a thickness of .070".

## HELA-FLOW CONSTRUCTION



## 2. Materials of Construction

Our standard materials of construction are:

PVC (Polyvinyl Chloride) Good physical and chemical properties. Maximum service temperature of 140°F. Most commonly used.

CPVC (Chlorinated Polyvinyl Chloride) Physical and chemical properties similar to or generally better than PVC. Maximum service temperature of 210°F. More expensive than PVC.

Special See information about PVDF and Metal+PVC on back page.

## 3. Standard Sizes

Standard construction is of Schedule 80 materials in 1/2" through 4" nominal pipe size. See EXHIBIT I for dimensions.

Construction may also be of Schedule 40 materials or a combination of Schedule 40 & Schedule 80.

## 4. Typical Constructions

Details of typical constructions are shown in EXHIBIT I,

EXHIBIT II and EXHIBIT III. Many other constructions are possible.

## 5. Applications

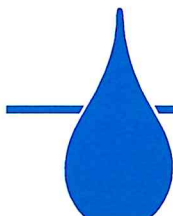
Water and waste water treatment  
Highly corrosive processes

## 6. Pricing

Since Hela-Flow laterals must be designed to satisfy each application (flow rate, slot size, volume, etc.), pricing must be developed for each job. Pricing is normally much lower than stainless or special alloys.

## 7. Design Assistance

We can assist in the design of Hub-Lateral or Header-Lateral systems if we have the vessel and header or hub dimensions, flow rates and desired pressure drop specifications. The size, number and orientation of holes in the laterals is crucial for optimum performance.

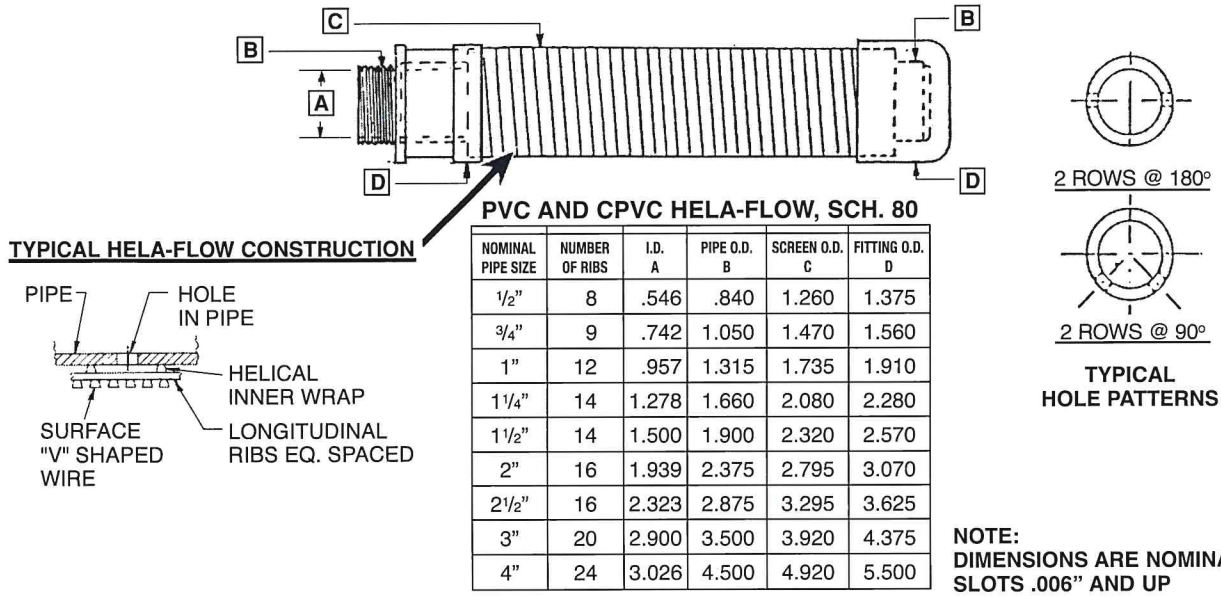


## LEEM / LSS Filtration

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# EXHIBIT I

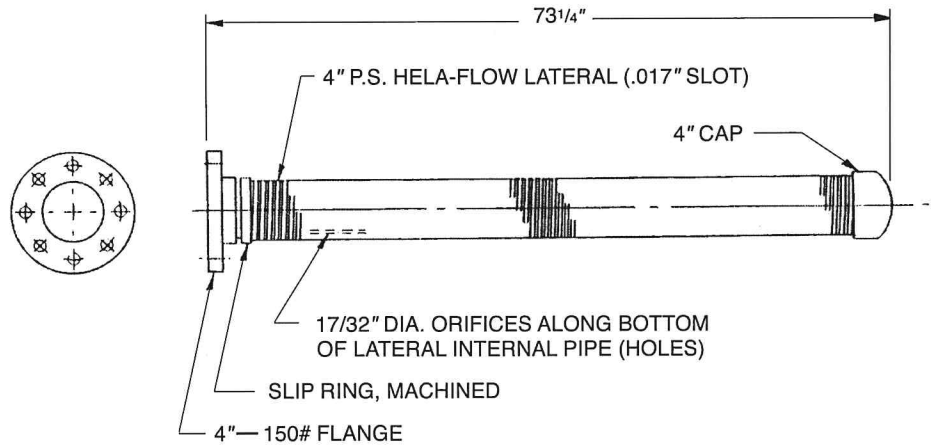
## Range of Typical Lateral Configurations



# EXHIBIT II

Large (4" Pipe Size) Lateral With Flange End

PVC OR CPVC SCHEDULE 80



# EXHIBIT III

Typical "Tee" Type Lateral

PVC OR CPVC SCHEDULE 80

