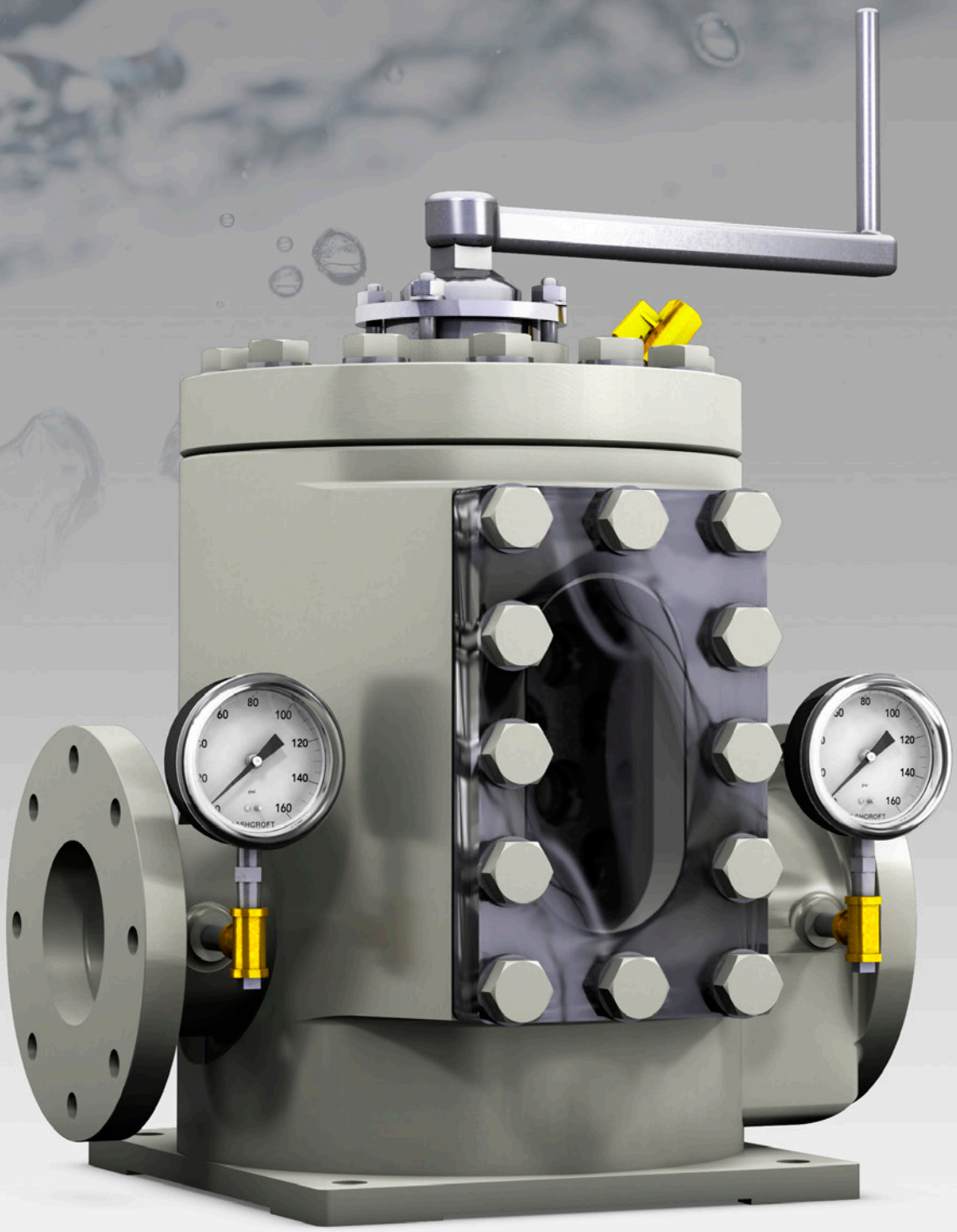
S.P.KINNEY®



manual strainer

Model "AM"

Bulletin 516

S.P. KINNEY MODEL “AM” STRAINER

APPLICATIONS

The Model “AM” is a manual strainer designed for removal of suspended particles from all types of liquids. Applications are in industrial plants using river, lake, well, or sea water for cooling, descaling, bearing lubrication, spraying, quenching, and similar purposes.

Pipe line sizes: 2”- 4.” Liquids other than water, such as chemicals, acids, white water (paper mills), sewage, and ammonia flushing liquor (coke plants) can also be effectively strained.

INSTALLATION

Installation is made on the discharge side of a pump or in any piping system operating under a positive pressure. The minimum working pressure required to effectively clean the straining media is 20 psi. The strainer is compact with small face-to-face width and height dimensions.

DESIGN

The strainer consists of a straight drum with a number of threaded holes containing one of many types of straining media. The drum is supported on a rotating shaft which can be turned manually with a hand crank in a body having a vertical backwash slot opening adjacent to the drum surface.

OPERATION

The liquid to be strained enters the inlet connection located in the lower portion of the body and flows around the outer surface of the drum. The suspended particles are retained in the media pockets, and the clean liquid passes through the media to the inside and bottom opening of the drum. The clean water can then continue through the outlet connection located diametrically opposite the inlet.

BACKWASH

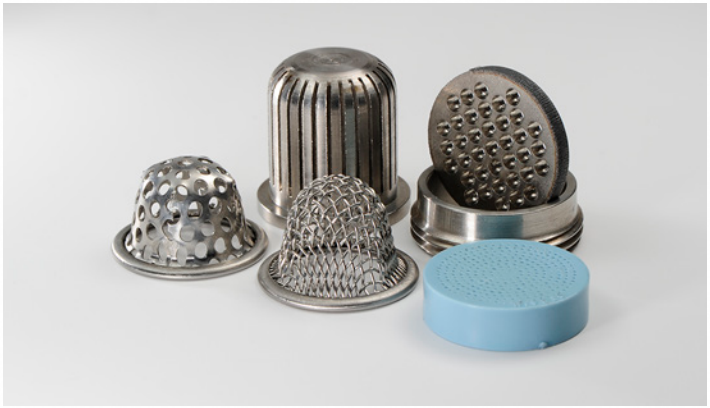
The drum is manually turned, and as each row of straining media passes the backwash slot a reversal of flow occurs, flushing the suspended particles from the media pockets. This reversal of flow is caused by a pressure differential between the interior of the strainer and the atmosphere. The backwash flow rate is exceptionally low and will vary, depending on the amount of suspended particles in the liquid.

BACKWASH CONTROL

A manually operated valve is supplied for installation on the backwash outlet line to permit intermittent backflushing.

ADJUSTMENT AND SHEARING ACTION

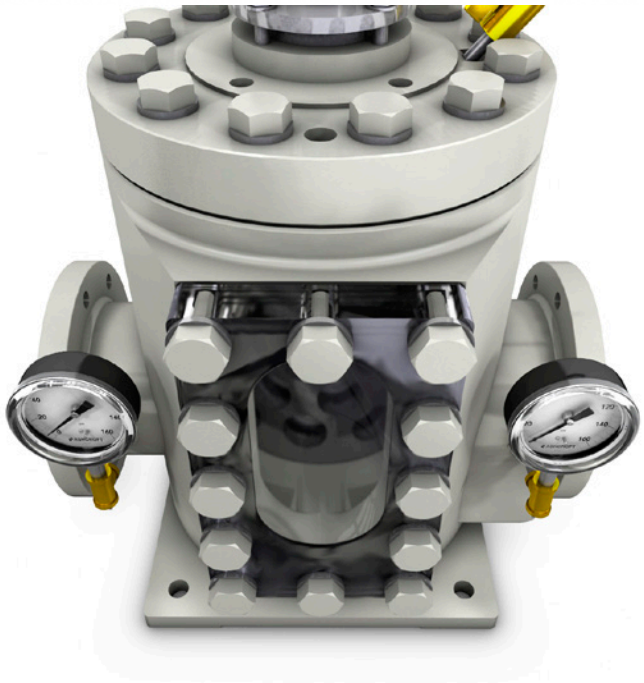
The clearance between the backwash slot and the drum is equal to or smaller than the opening presented in the media. The backwash slot contains a knife-like edge which enables the strainer to shear debris such as wood, shells, fish, and other suspended materials that may extend beyond the surface of the drum – with no resultant damage to the drum or the straining media.

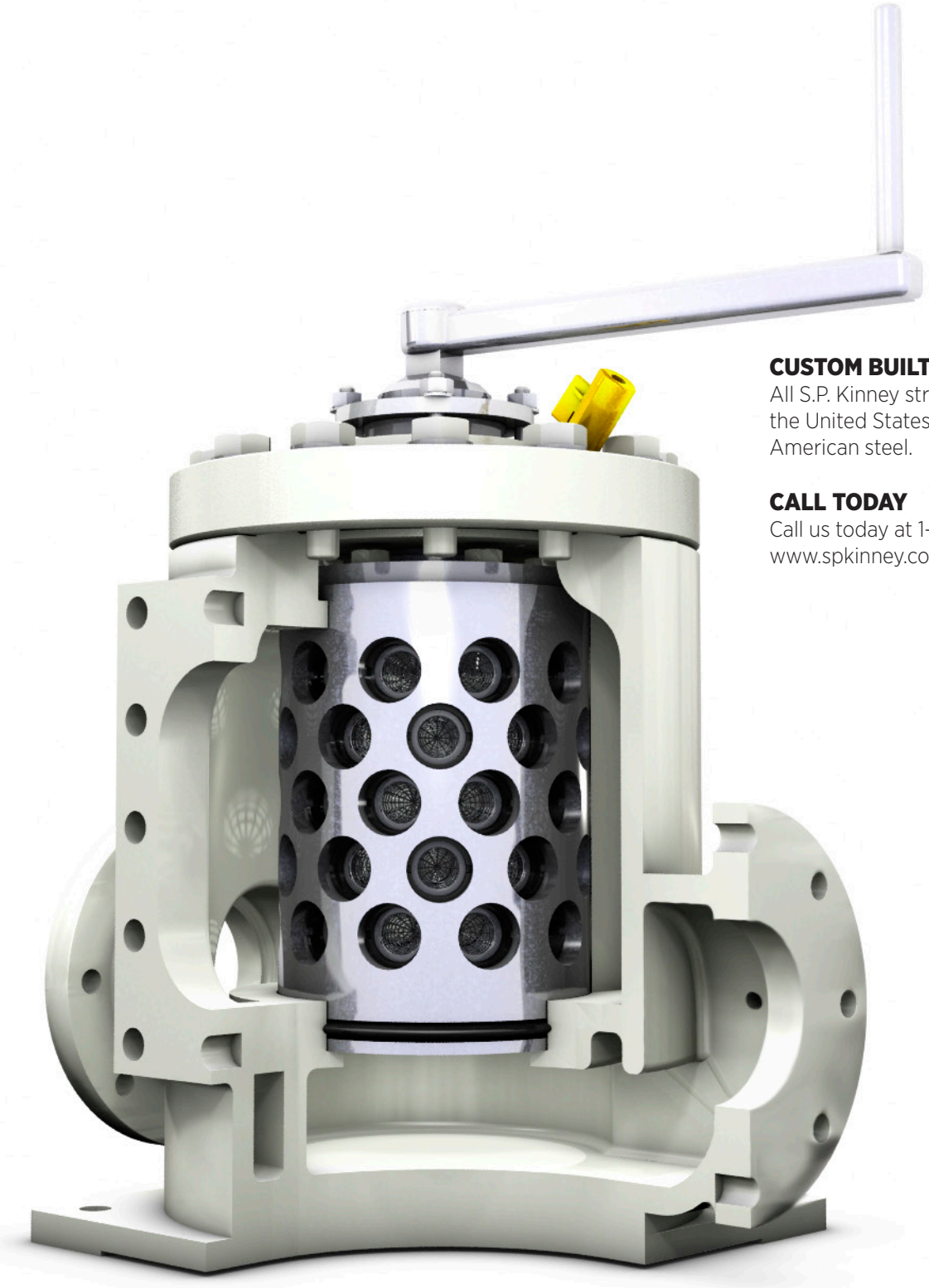


INSPECTION

The Kinney Model “AM” strainer eliminates troublesome disassembly for cleaning and inspection by providing an opening in the side of the strainer body. To inspect the straining media simply remove the cover and manually rotate the drum.

As each row of media passes the inspection opening, easy access to the media is achieved.





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S.P. KINNEY ENGINEERS, INC.
143 FIRST AVE. P.O. BOX 445, CARNEGIE, PA 15106-0445, USA
PHONE: 1-800-356-1118
FAX: (412) 276-6890
WWW.SPKINNEY.COM
INFO@SPKINNEY.COM