

Gas Particulate Filters

GP-146



Dollinger GP-146 Particulate Filters

The Dollinger series GP -146 high efficiency filters are designed to remove final traces of dirt, pipe scale and other solid contaminants from process air and other gases.

Unlike conventional multi-candle filters, the Dollinger element design concept maximises the effective filtration area for a given vessel size resulting in lower differential pressure and extended service life. In addition to the standard range of filters, Dollinger is able to offer customised filter designs and capacities to suit the particular process / application demands of the customer.

HOUSING DESIGN AND CONSTRUCTION

As standard, the Dollinger GP-146 filter housing is designed and constructed in accordance with the ASME VIII, Division I Pressure Vessel construction code. In addition, Dollinger can also provide full design services to other pressure vessel codes e.g. BS5500, Stoomwezen, AD Merkbblätter, CODAP and AS 1210.

MATERIALS OF CONSTRUCTION

The majority of our filters are constructed in Carbon Steel or Stainless Steel. However, we can also offer Duplex, Super Duplex and other high quality materials where required.

Special requirements for low temperature applications and/or for NACE specifications can also be accommodated.

FILTER ELEMENT

The Dollinger GP-146 Filter incorporates the efficient radial fin element design which provides the largest filtration area for a given element size. This increases dirt holding capacity, minimises pressure drop and results in an extended service life.

The filter element support structure is constructed from steel suitable for the particular application. Standard element design ensures its integrity up to differential pressures of 3.45 bar and beyond, with special bespoke designs available where required.

FILTER MEDIA

Dollinger offers an extensive range of synthetic and natural fibre filter media, suitable for use with most process gases. In addition, stainless steel mesh media can be incorporated into the existing element design for more demanding applications. In most instances, the Dollinger filter element can be cleaned and re-used many times. This feature is especially beneficial in applications having high levels of contaminant.

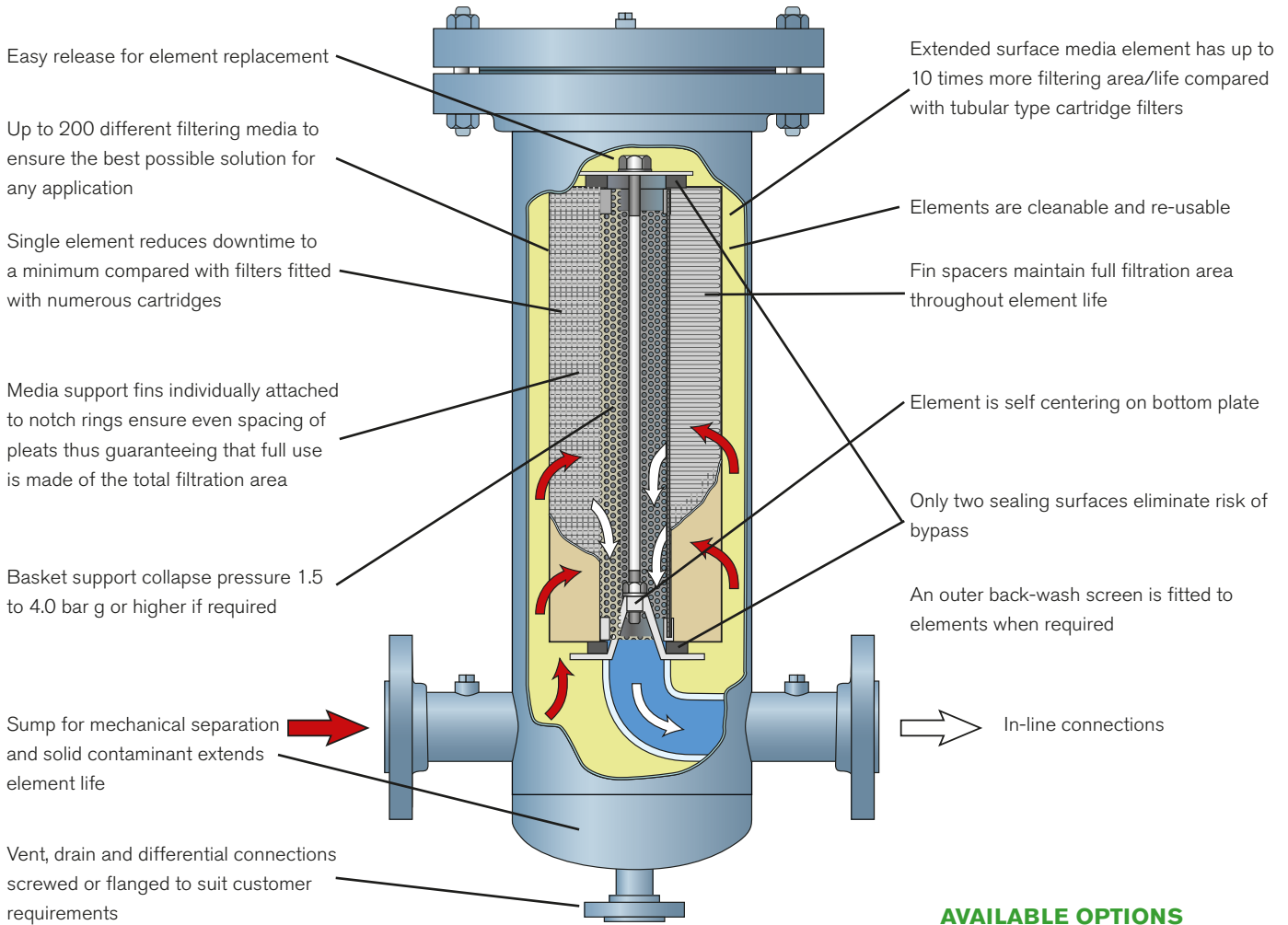
INTER-CHANGEABILITY

In the event of changing process conditions following installation, it is possible to interchange elements to vary the degree of filtration.



Dollinger Design Concept

The Dollinger design concept combined with the radial finned element gives you these benefits :



Up to 200 different filter media enable the ultimate material to be selected for the filter application taking into account the degree of filtration, temperature, chemical compatibility, differential pressure etc. These include natural and synthetic materials with retentions down to 99.97% efficiency at 0.3 microns such as polyester, dacron, nomex, nylon, glass fibre (both woven and needle felted), teflon, cotton and metallic mesh.

AVAILABLE OPTIONS

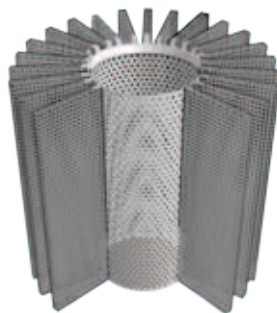
- Quick opening closures complete with pressure interlock device
- Davit assembly
- Support legs / brackets
- Weld neck flanged connections
- Earthing boss
- Customised paint specification

ELEMENT CONSTRUCTION



BASKET

Standard collapse pressure 1.5-4.0 Bar.
Higher available when required.



NOTCH RING AND WIRE

Used to form extended surfaces.
Full use of filtration area and structural integrity



MEDIA

Wide range to meet all service requirements.
Positive sealing surface - minimum sealing area. Eliminate contaminant by-pass

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SPX reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit www.dollinger-spx.com and www.spx.com.

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