

Nozzle filters are used to prevent contamination from the plastic melt causing blockages or interruptions to the injection process. These contaminates can cause damage to hot runner

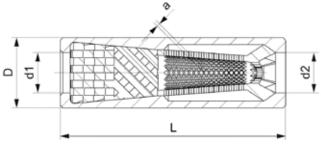
systems resulting in extended downtime and increased maintenance costs.

The design of the voestalpine flow filter X capitalizes on the unique capabilities of 3D printing to integrate a static mixer and filter into a standard form factor, delivering improved performance over traditional injection moulding nozzle filters.

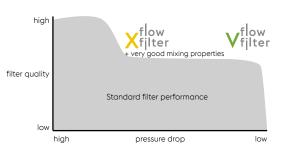
This configuration of in-line static mixer and filter helps prevent feed blockages caused by material impurities, such as those encountered when processing recycled materials and delivers superior mixing properties when using additives.

| article | D [mm] | L [mm] | d1 [mm] | d2 [mm] | a [mm] |
|---------------------|-----------|-----------|------------|------------|-----------|
| flow filter X 14x45 | 14 -0,02 | 45 -0,04 | 8 | 8 | 0,6 |
| flow filter X 20x45 | 20 -0,04 | 45 -0,04 | 14 | 14 | 0,6 |
| flow filter X 25x50 | 25 -0,05 | 50 -0,04 | 19 | 19 | 0,6 |

flow filter X customized



FEATURE COMPARISON



Pressure drop and shear stress can be influenced by many parameters (eg injection material, filler material, temperature, etc).

flow filter X should be selected if improved mixing performance is required in conjunction with high quality filtration.

voestalpine flow filters are not recommended for glass fibre reinforced plastics.

Special care should be taken when installing the flow filter X – please follow the instructions as per the "Mounting Information" datasheet.

CHARACTERISTICS

- » Combines filter and mixer in one single component
- » Large filtration area
- » Small mesh size
- » Good mixing properties
- » Low pressure drop
- » Low shear stress
- » Corrosion resistant
- » Wear resistant

BENEFITS

- » Trouble-free injection molding
- » Lower maintenance and downtime costs
- » Space-saving installation
- » Better part quality
- » Only slight increase in injection pressure
- » Easy cleaning
- » Long lifetime

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