

DuoLine FELT

Disposable Needlefelt Filter Bags



DuoLine filter bags have been designed to provide effective filtration for a wide range of applications using a variety of filter media.

They are manufactured using the latest technology to ensure structural integrity and provide greater security during demanding process conditions.

DuoLine PP, PE, NY, NX, TT and UT ranges of filter bags adopt the use of needlefelt type media which provides both surface and depth filtration for maximum dirt capacity.

Product Features

- Polypropylene, PTFE, Polyester, Nylon and Nomex needlefelt media, rated between 1 - 200µm
- Wide chemical compatibility and PTFE version available for aggressive process conditions
- Double integral handles available
- FDA compliant material (PP and PTFE, PE available on request)
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004 (PP and PTFE, PE available on request)



DuoLine XP filter bags are designed to give longer service life, therefore reducing operating costs and process downtime.

The XP bags greater depth provides additional void volume resulting in a greater dirt holding capacity. This provides up to 2-5 times longer life over standard needlefelt materials.

Product Features

- Polypropylene needlefelt media, rated 1 - 200µm
- Double integral handles available
- Extended life
- FDA and EC food contact compliant material

Three bag diameters are available in the DuoLine range, 4¼, 5½ and 7" all fitted as standard with a top ring locator in various materials and styles.

All DuoLine bags are designed to filter from the inside to out leaving the contamination inside the bag for simple disposal. These needlefelt bags can be used for both pre and final filtration duties.

Amazon Filters manufacture a comprehensive range of filter housings for the DuoLine bags. Available in many materials and sizes to suit all flow rates, please consult our sales office for further details of the full range.

Features and Benefits

- Micron ratings available from 1 to 200µm for wide ranging filtration needs
- Extended life XP version available
- PTFE bags are offered with or without PTFE membrane and are ideal for the filtration of corrosive fluids
- Optional moulded polypropylene flange with handles for superior sealing and ease of handling
- FDA and EC food contact compliant materials available
- Wide selection of filter media and support ring materials
- Identification supplied with every bag
- Silicone free for use in automotive paint applications

Industries and Applications

Pharmaceutical	• Bulk transfer, Catalyst removal. Powder trap
Cosmetics	• Creams, Lotions, Gels, Filling head trap filter
Metal Finishing	• Wash solutions, Paints, Resins, Varnishes
Water Treatment	• Membrane protection (Reverse osmosis, nano), Resin trap, Potable water
Automotive	• Cooling fluid, Electrophoretic paints, Degreasing systems, Phosphate filter
Chemical	• Bulk transfer lines, Tanker discharge and loading lines
Petrochemical	• Amine and Glycol systems, Bulk kerosene processing, Solvent transfer lines

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DuoLine Technical Data

Maximum Operating Conditions

Temperature	19PP:	95°C
	19PE:	135°C* ¹
	19NY:	135°C* ¹
	19NX:	190°C* ¹
	19TT/UT:	250°C* ¹

Recommended Maximum Differential Pressure: 4 Bar

*¹ Bags adopting the use of a polypropylene sealing flange have a maximum operating temperature of 95°C.

Amazon Filters recommend that DuoLine Needlefelt bags are changed at a differential pressure of 2.5 Bar in normal service - the operating condition above should be treated as a maximum differential pressure for short term use.

Please note that operating temperatures greater than ambient will reduce the bags' ability to withstand differential pressure and that the bag should be used with caution at elevated temperatures. Product Validation Guide available on request.

Dimensional Data

Bag Size	Length (mm)* ²	Ring Diameter (mm)	Capacity (Litres)	Surface Area (m ²)	Flow Rate (m ³ /hr)* ³
1M (P3)	216	108	1.8	0.069	3
2M (P4)	368	108	3.0	0.118	6
1A	432	140	6.6	0.190	9
2A	788	140	12.1	0.347	18
3A	1118	140	17.3	0.495	28
1G (P1)	433	178	10.7	0.235	12
2G (P2)	825	178	20.5	0.453	25
3G	1194	178	29.7	0.682	40

*² Lengths are nominal *³ The flow rates quoted are our maximum recommended values for each bag type based on water, or liquid of a similar viscosity at ambient temperature. For advice on the filtration of liquids with greater viscosities please contact our sales office.

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