# NLJFILTER PE

**The prefilter for the removal of solid contaminants in gases.**

**Product description:**

The Ultrapoly® prefilter contains the high porous, sintered polyethylene filter medium. Even finest dust particles and other contaminants in compressed air and gases are being removed effectively on the surface and in the depth of the filter medium.

**Characteristics:**

By utilising various filtration mechanisms – such as direct impact and sieve effect – contaminants down to the size of 25 µm particles, are being retained in the filter.

Cross section of the Ultrapoly® prefilter

**Applications:**

The Ultrapoly® prefilter is for example being utilised in the following industries

- Chemical industry
- Petrochemical industry
- Pharmaceutical industry
- Plastic industry
- General machine fabrication
- Food industry
- Beverage industry
- Process industry for instrumentation and control air

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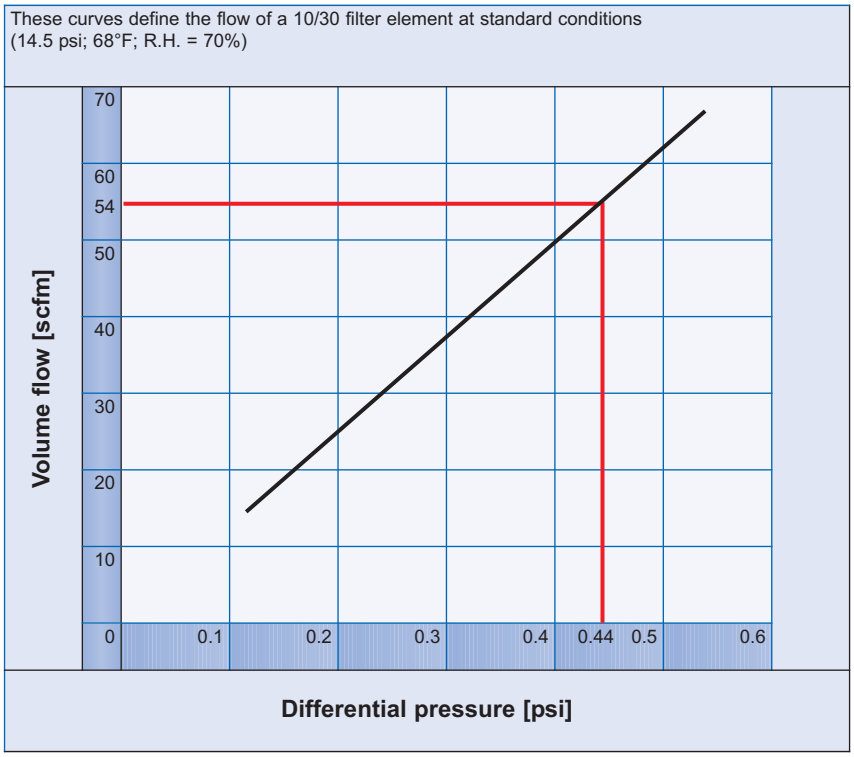
| Features: | Benefits: |
|---|---|
| Permanent temperature range: -4°F up to +176°F | Wide application spectrum |
| Void volume: porosity grade 45% | High dirt holding capacity: lower differential pressure |
| Filter surface: 5.5 sq.in. (02/05) up to 480 sq.in. (30/50) | Appropriate for any application and flow |
| Removal of contaminants down to 25 µm | Guaranteed retention grade |
| Regenerative | Economical, longer service life time |

| Materials: | |
|---|---|
| Filter medium | Pure, high molecular polyethylene |
| Bonding | Polyurethane |
| End caps | Aluminium |
| 2 O-Rings | Perbunan-silicon-free and free of parting compound (standard) |

| Retention rate: |
|---|
| 100% in gases |

| Maximum differential pressure: |
|---|
| 30 psi at 68°F, irrespective of system pressure |

**Performance of PE elements - compressed air**




| Initial differential pressure at nominal flow: | | |
|---|---|---|
| PE | = | 0.44 psi |

| Element-Type | Correction Factor Filter surface KF |
|---|---|
| 02/05 | 0.06 |
| 03/05 | 0.09 |
| 03/10 | 0.12 |
| 04/10 | 0.17 |
| 04/20 | 0.19 |
| 05/20 | 0.25 |
| 05/25 | 0.32 |
| 07/25 | 0.47 |
| 07/30 | 0.68 |
| 10/30 | 1.0 |
| 15/30 | 1.55 |
| 20/30 | 2.10 |
| 30/30 | 3.20 |
| 30/50 | 5.73 |