

APESFEND™ ELECTRONIC-GRADE DI WATER FINE FILTRATION FILTERS

HIGH RETENTION EFFICIENCY, FLOW RATES, AND SURFACE AREA, IDEAL FOR ULTRA-PURE WATER AND DILUTED ACID/BASE FILTRATION

Apesfend™ FDS Series filters are constructed with a high polymer-based asymmetric PES (polyethersulfone) membrane which provides higher contaminant holding capacity and longer service lifetime than typical PES membranes. These filter cartridges provide efficient particle removal to ensure the quality of ultra-pure water, as well as filtration of diluted acid/base liquids.

| FEATURE | BENEFIT |
|--|--|
| Highly asymmetric PES membrane | Combines excellent retention and high flow with lower differential pressures and longer filter lifetime than other typical PES membranes |
| | Ultra-clean performance out-of-box results in faster start up, reduces equipment pre-operation time |
| High membrane surface area | High flow rate and longer life |
| Each filter individually integrity tested | With 100% integrity testing, each filter is guaranteed to perform at installation |
| Each filter flushed with 18mOhm/cm water | High cleanliness and good conductivity recovery saves water and inline flushing time |
| Industry standard connections | Ease of installation and replacement |

SPECIFICATIONS

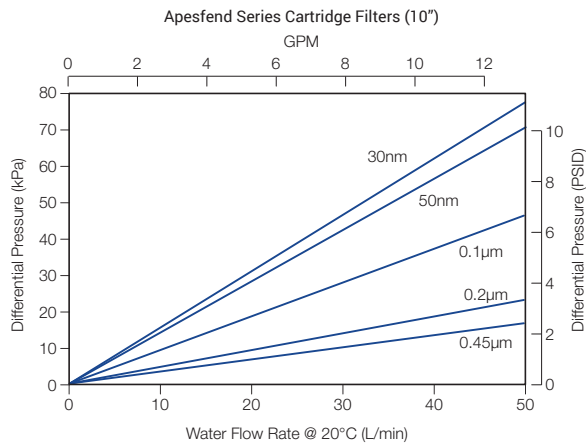
| | |
|------------------------------------|---|
| Filter media | Asymmetric PES membrane |
| Supports/core/cage/end caps | Polypropylene |
| O-rings | FEP encapsulated FKM, EPDM, FKM, Silicone |
| Max. operating temperature | 80°C |
| Max. differential pressure | 0.3 MPa (3.0 bar, 43.5 psi) at 21°C 0.18 MPa (1.8 bar, 26.1 psi) at 80°C |



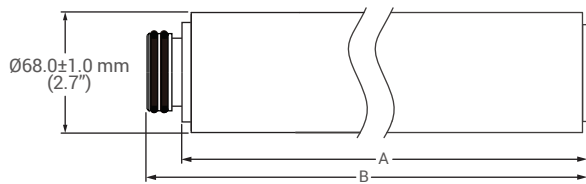
Typical Applications

- UPW post polish fine filtration
- On-tool process rinse water
- Dilute acids/bases
- Hot DI water

CARTRIDGE FLOW RATES

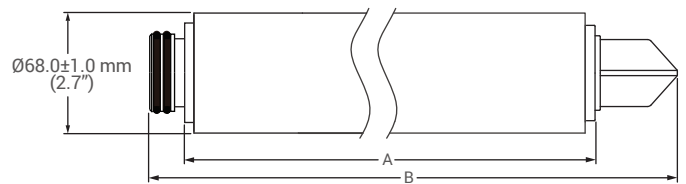


APESFEND CARTRIDGE FILTERS (2-222/FLAT)



| Length Code | A | B |
|-------------|---------------------|---------------------|
| 04 | | |
| 10 | 247.0 ±2 mm (9.2") | 266.5 ±2 mm (10.5") |
| 20 | 489.5 ±3 mm (19.3") | 509.0 ±3 mm (20.0") |
| 30 | 731.5 ±3 mm (28.8") | 751.0 ±3 mm (29.6") |
| 40 | 974.0 ±3 mm (39.3") | 993.5 ±3 mm (39.1") |

APESFEND CARTRIDGE FILTERS (2-222/FIN)



| Length Code | A | B |
|-------------|---------------------|----------------------|
| 04 | | |
| 10 | 249.5 ±2 mm (9.8") | 316.5 ±2 mm (12.4") |
| 20 | 491.5 ±3 mm (19.4") | 558.5 ±3 mm (22.0") |
| 30 | 734.0 ±2 mm (28.9") | 801.0 ±2 mm (31.5") |
| 40 | 976.0 ±3 mm (38.4") | 1043.0 ±3 mm (41.1") |

APESFEND CARTRIDGE ORDERING INFORMATION

EXAMPLE: **FDS0005TF10E** = 50 nm, 222/fin, 10", with EPDM seals

FDS



Removal Rating

0003 = 30 nm
0005 = 50 nm
0008 = 80 nm
0010 = 0.1 µm
0020 = 0.2 µm
0045 = 0.45 µm



End Cap

TC = 222/Flat
TF = 222/Fin



Nominal Length

04 = 4"
10 = 10"
20 = 20"
30 = 30"
40 = 40"



Seal Material

P = FEP
E = EPDM
V = FKM
S = Silicone



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