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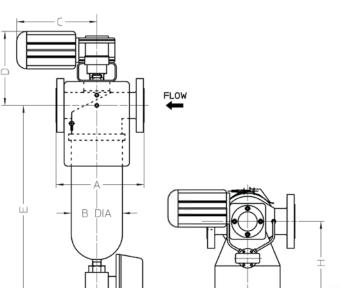
### Benefits of Self-Clean Filters

- Provides an efficient filtration solution for virtually any fluid with viscosity from a thick viscous resin and adhesive to water.
- Element cleaning without interrupting flow or losing system pressure or any fluid loss.
- Fully enclosed system with no operator contact with the fluid therefore ideal for hazardous or sensitive applications and also no chance of externally introduced contamination into the product.
- · Cleaner and safer operating area.
- · Manual or fully automated operation.
- Reduces labour cost associated with more traditional filtering methods such as strainers and bag filters and also minimises any production down time.

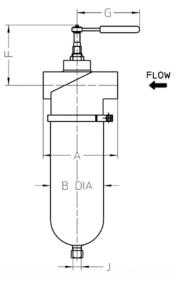




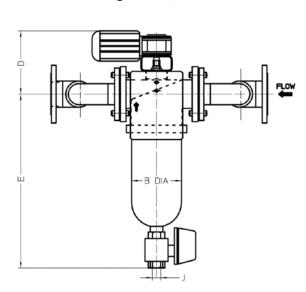
#### Flanged Filter, automated

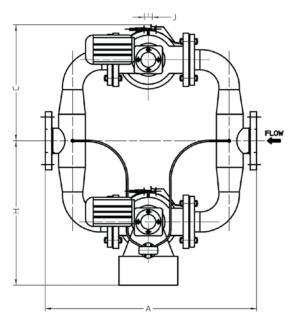


#### Threaded Filter, manual



#### Manifold DN100, flanged unit, automated





| Bore   | Flanged | Threaded | Common Dimensions (mm) |     |     |     |     |     |     | Mass (dry) kg |        |          |        |      |
|--------|---------|----------|------------------------|-----|-----|-----|-----|-----|-----|---------------|--------|----------|--------|------|
| Size   | Filters | Filters  |                        |     |     |     |     |     |     | Flanged       |        | Threaded |        |      |
|        | Α       | Α        | В                      | С   | D   | E   | F   | G   | Н   | J             | Manual | Auto     | Manual | Auto |
| DN40   | ,       |          |                        |     |     |     |     |     |     |               |        |          |        |      |
| DN50   | 270     | 220      | 157                    | 260 | 245 | 555 | 150 | 185 | 250 | 3/4"          | 24     | 35       | 18     | 29   |
| DN65   | J       |          |                        |     |     |     |     |     |     |               |        |          |        |      |
| DN80   | 299     | -        | 192                    | 260 | 255 | 645 | 190 | 185 | 250 | 1.5"          | 50     | 65       | -      | -    |
| DN100  | 430     | -        | 280                    | 350 | 380 | 880 | 295 | 510 | 300 | 1.5"          | 85     | 129      | -      | -    |
| DN100M | 825     | -        | 190                    | 450 | 255 | 645 | 190 | 185 | 570 | 1.5"          | 220    | 240      | -      | -    |

M = Manifold unit

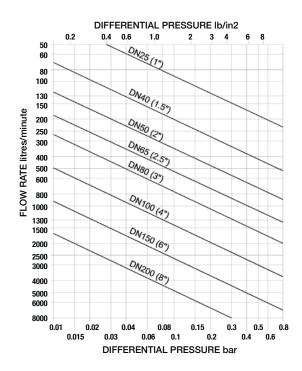
### Range

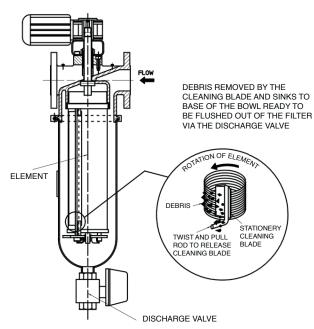
- 316 stainless steel wedge wire or perforated elements with filtration level from a coarse 6mm down to 50 micron and on some models 25 micron
- Available in cast iron, carbon steel or stainless steel. Other materials offered but not stocked
- Working pressure to 14 Barg (200psi) for the lower pressure range and up to 50 barg (725psi) for the higher pressure range\*
- Manually cleaned by simply turning a ratchet handle or fully automated so no operator involvement is required
- High viscosity unit can feature reinforced elements and isolated pressure switch and heating jackets if required
- Unique twist and pull cam assembly so cleaning blades and element can be quickly and easily changed without tools

\*Pressure stated at 50C. Pressure reduces with increasing temperature. We do not recommend the use of cast iron above 100C. For any application above 100C talk to our technical sales team. Max pressure on high pressure range specified to order.

## Applications — Just a Few Examples

- Filtration of highly viscous epoxy and polyester resins during the manufacturing process
- Protection of a heat exchanger on sea water used for cooling
- Filtration of paints and varnishes replacing open sieves which can be subject to product contamination
- Replacing and extending the lift of filter bags and cartridges in an ink manufacturing facility
- Replacing a basket strainer used for the filtration of flushing water on mechanical seals on pumps in the paper and pulp industry







#### Flow Chart for Blade Type Self-Clean Filters

The chart is for water (1cSt) flowing through a filter with an element coarser than 1000 microns. Multiply the pressure drop by the following factors for different element micron ratings and different viscosities.

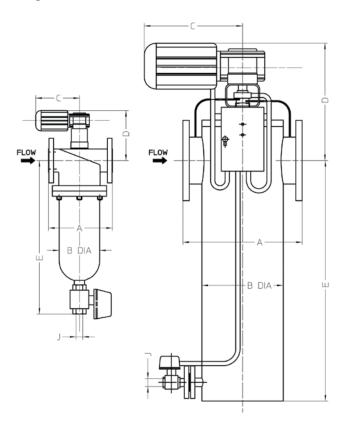
| Viscosity<br>(Centistokes) | Filtration Rating (microns) |      |      |      |      |  |  |  |
|----------------------------|-----------------------------|------|------|------|------|--|--|--|
| (connectiones)             | 50                          | 100  | 200  | 500  | 1000 |  |  |  |
| 1                          | 1.5                         | 1.2  | 1.13 | 1.08 | 1.0  |  |  |  |
| 50                         | 3.6                         | 2.75 | 2.4  | 2.2  | 1.75 |  |  |  |
| 200                        | 5                           | 3.67 | 3.16 | 2.84 | 2.1  |  |  |  |
| 500                        | 6.2                         | 4.5  | 3.8  | 3.35 | 2.4  |  |  |  |
| 1000                       | 7.6                         | 6    | 5    | 3.9  | 3.6  |  |  |  |
| 5000                       | 34                          | 27   | 22   | 18   | 17   |  |  |  |



### The High Pressure Range

The higher pressure range is dimensionally and functionally similar to the low pressure range up to and including the DN80 model but features a flanged closure. Maximum pressures are specified to order.

#### High Pressure Filter, automated



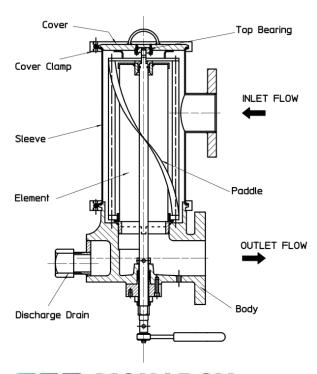
| Bore  |      | Comm | Mass (dry) kg |     |      |        |        |      |
|-------|------|------|---------------|-----|------|--------|--------|------|
| Size  | Α    | В    | С             | D   | E    | J      | Manual | Auto |
| DN50  | 325  | 157  | 260           | 245 | 555  | 3/4"   | 30     | 36   |
| DN80  | 360  | 190  | 260           | 255 | 645  | 1.1/2" | 50     | 55   |
| DN100 | 550  | 280  | 345           | 380 | 880  | 1.1/2" | 285    | 385  |
| DN150 | 550  | 406  | 345           | 560 | 1170 | 1.1/2" | 380    | 480  |
| DN200 | 870  | 700  | 345           | 560 | 1170 | 1.1/2" | 850    | 1050 |
| DN250 | 1000 | 800  | 345           | 560 | 1170 | 1.1/2" | 1340   | 1640 |
| DN300 | 1100 | 865  | 345           | 560 | 1170 | 1.1/2" | 1830   | 2230 |

S = Threaded connections M = Manifold unit

### The LPH Range

The LPH self-clean filter is ideally suited to those applications where regular stirring of fluid is beneficial and very low product loss is essential.

- Lift-out element and blade assembly for quick and easy change-over or cleaning
- Paddle stirs the fluid on the 'dirty' side of the element allowing agitation of the product and restricting build up of solids on the bowl
- Paddle directs the debris towards the discharge valve
- Optional paddle to stir the fluid on the 'clean' side of the element
- Self-draining at the end of a batch, minimising product losses
- · Optional heating jacket
- · High Pressure version available





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