

### MANUAL DISC FILTERS

#### Working conditions

|                       |                    |
|-----------------------|--------------------|
| Salinity              | < 6000 mg/l        |
| Max. working pressure | 10 bar (145 psi)   |
| Min. working pressure | 0.8 bar (11.6 psi) |
| pH                    | 4 - 11             |
| Water temperature     | ≤ 60 °C (140 °F)   |

#### Filtration degrees (micron)

|     |     |     |     |    |    |    |   |
|-----|-----|-----|-----|----|----|----|---|
| 400 | 200 | 130 | 100 | 50 | 20 | 10 | 5 |
|-----|-----|-----|-----|----|----|----|---|



### DESCRIPTION

Manual disc AZUD HELIX SYSTEM FT DW filter available in Ø2", Ø3", Ø4" and Ø6".

AZUD patents, developments and manufacturing quality control guarantee an excellent filtration quality by optimizing operational costs of the installation where it is integrated. Thermoplastic materials used in the manufacture offer an extraordinary resistance and lifespan of all the components of the equipment, minimizing the tasks of inspection and maintenance, which are carried out easily and with no tools.

**ACS certified AZUD HELIX SYSTEM FT DW for use in applications with drinking water.**

### MAIN FEATURES

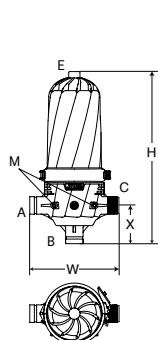
- > **RELIABLE FILTRATION**, thanks to a double effect of centrifugal separation and in-depth 3D filtration with multiple particle retention points.
- > **EXCLUSIVE BUTTERFLY SYSTEM FOR LOCKING THE FILTRATION ELEMENT**, this system allows for an easy decompression of the disc stack to facilitate cleaning.
- > **MINIMUM BACKWASH FREQUENCY**, thanks to the patented anti-clogging deflector AZUD HELIX and an increased filtration area per filter element.
- > **PLUG&PLAY AND MODULAR SOLUTION.**

## HOW DO THEY WORK

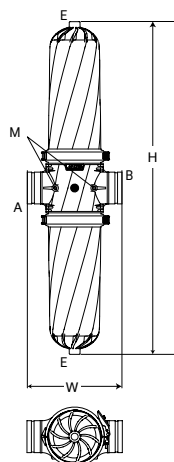
### TECHNOLOGY

- Water flows from the inlet manifold to the inside of the filter, passing through the anti-clogging deflector AZUD HELIX, which throws the heavy particles away from the disc stack, avoiding the quick clogging of the filter and minimizing the backwash frequency.
- Water flows OUT-IN through the disc stack to the outlet manifold while particles bigger than the filtration degree are trapped in the discs.

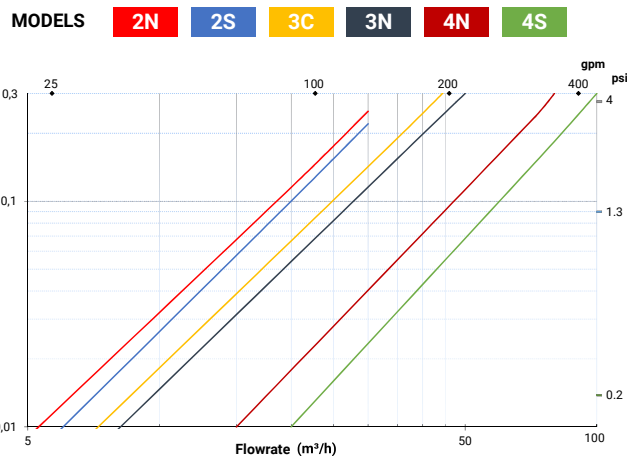
2N, 2S, 3C, 3N



4N, 4S, 6N



## HEAD LOSS



## MATERIALS OF CONSTRUCTION\*

|                        |                           |
|------------------------|---------------------------|
| <b>MG Discs</b>        | Polypropylene             |
| <b>WS Discs</b>        | High density polyethylene |
| <b>Disc support</b>    | Reinforced polypropylene  |
| <b>Base – lid</b>      | Reinforced polyamide      |
| <b>Clamp</b>           | Stainless steel 316L      |
| <b>Sealing o-rings</b> | Nitrile rubber            |

\*Certified materials of construction for use in applications with drinking water.

## MODELS

| FILTER CONFIGURATION                                                                | DIAMETER   | MODEL | Q MAX.<br>130 µm | FILTRATION AREA | CONNECTION |         |         | DIMENSIONS |         |        |
|-------------------------------------------------------------------------------------|------------|-------|------------------|-----------------|------------|---------|---------|------------|---------|--------|
|                                                                                     |            |       |                  |                 | A          | B       | C       | H          | W       | X      |
|  | 2"         | 2NR   |                  |                 | BSP        | BSP     | BSP     |            |         |        |
|                                                                                     |            | 2NA   | 30 m³/h          | 1198 cm²        | NPT        | NPT     | NPT     | 595 mm     | 310 mm  | 133 mm |
|                                                                                     |            | 2NV   | 132 gpm          | 186 in²         | GROOVED    | GROOVED | BSP     | 23.4 in    | 12.2 in | 5.2 in |
|                                                                                     |            | 2NW   |                  |                 | GROOVED    | BSP     | GROOVED |            |         |        |
|                                                                                     | 2" SUPER   | 2SR   |                  |                 | BSP        | BSP     | BSP     |            |         |        |
|                                                                                     |            | 2SA   | 30 m³/h          | 1699 cm²        | NPT        | NPT     | NPT     | 720 mm     | 310 mm  | 133 mm |
|                                                                                     |            | 2SV   | 132 gpm          | 263 in²         | GROOVED    | GROOVED | BSP     | 28.3 in    | 12.2 in | 5.2 in |
|                                                                                     |            | 2SW   |                  |                 | GROOVED    | BSP     | GROOVED |            |         |        |
|                                                                                     | 3" COMPACT | 3CR   |                  |                 | BSP        | BSP     | BSP     |            |         |        |
|                                                                                     |            | 3CA   | 50 m³/h          | 1198 cm²        | NPT        | NPT     | NPT     | 610 mm     | 336 mm  | 147 mm |
|                                                                                     |            | 3CV   | 220 gpm          | 186 in²         | GROOVED    | GROOVED | BSP     | 24 in      | 13.2 in | 5.8 in |
|                                                                                     |            | 3CW   |                  |                 | GROOVED    | BSP     | GROOVED |            |         |        |
|   | 3"         | 3NR   |                  |                 | BSP        | BSP     | BSP     |            |         |        |
|                                                                                     |            | 3NA   | 50 m³/h          | 1699 cm²        | NPT        | NPT     | NPT     | 735 mm     | 336 mm  | 147 mm |
|                                                                                     |            | 3NV   | 220 gpm          | 263 in²         | GROOVED    | GROOVED | BSP     | 28.9 in    | 13.2 in | 5.8 in |
|                                                                                     |            | 3NW   |                  |                 | GROOVED    | BSP     | GROOVED |            |         |        |
|                                                                                     | 4"         | 4NL   | 70 m³/h          | 2396 cm²        | GROOVED    | GROOVED | -       | 950 mm     | 341 mm  | -      |
|                                                                                     |            | 4NB   | 308 gpm          | 371 in²         | FLANGE     | FLANGE  | -       | 37.4 in    | 13.4 in | -      |
|                                                                                     | 4" SUPER   | 4SL   | 100 m³/h         | 3398 cm²        | GROOVED    | GROOVED | -       | 1200 mm    | 341 mm  | -      |
|                                                                                     |            | 4SB   | 440 gpm          | 572 in²         | FLANGE     | FLANGE  | -       | 47.2 in    | 13.4 in | -      |
|                                                                                     | 6"         | 6NB   | 100 m³/h         | 3398 cm²        | FLANGE     | FLANGE  | -       | 1200 mm    | 531 mm  | -      |
|                                                                                     |            |       | 440 gpm          | 572 in²         |            |         |         | 47.2 in    | 20.9 in | -      |

¾" BSP E connection • ¼" BSP M connection