# SOTRAS

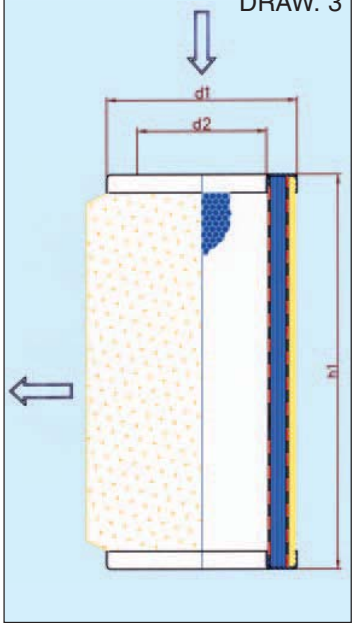
## FILTERS & PRODUCTS FOR VACUUM PUMPS

# DEMISTERS

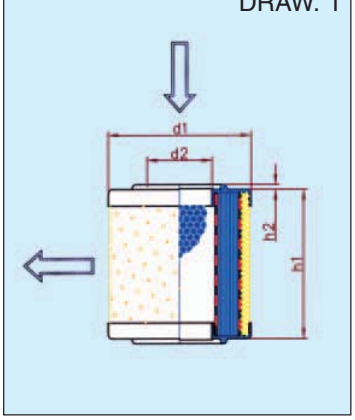
The media used in our separators enables us to obtain excellent air/oil separation rates up to 1-3 mg/m3.
All oil separators are manufactured using materials to withstand high pressures and temperatures and to minimise moisture induced deterioration.

In order to achieve the best possible separation efficiency and long working life of the element it is essential that regular maintenance procedures are followed and joints are applied correctly, as well as the use of good quality air and oil filters.

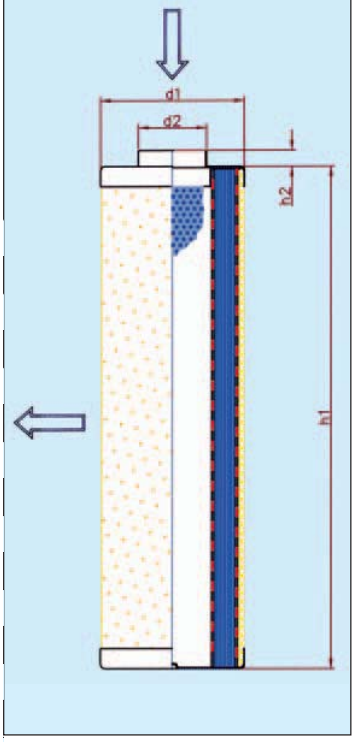
DRAW. 3




DRAW. 1



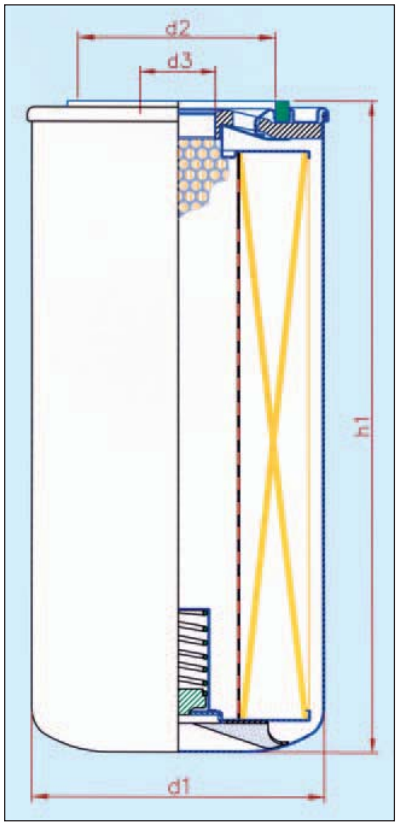

DRAW. 2




| SOTRAS Ref. | d1 (mm) | d2 (mm) | h1 (mm) | h2 (mm) | Drawing | Flow rate (m3/min) |
|---|---|---|---|---|---|---|
| DA 1050 | 54,5 | 25,5 | 68 | 2,5 | 1 | 0,25 |
| DA 1051 | 71,5 | 32,5 | 74 | 2,5 | 1 | 0,4 |
| DA 1022 | 79,5 | 45 | 117,5 | 3,5 | 1 | 0,7 |
| DA 1060 | 72 | 35 | 132 | 8 | 2 | 0,8 |
| DA 1120 | 79 | 46 | 144 | 0 | 3 | 0,9 |
| DA 1013 | 70 | 40 | 175 | 0 | 3 | 0,9 |
| DA 1014 | 70 | 40 | 200 | 0 | 3 | 1,1 |
| DA 1111 | 72 | 35 | 200 | 8 | 2 | 1,2 |
| DA 1015 | 70 | 40 | 255 | 0 | 3 | 1,4 |
| DA 1047 | 72 | 35 | 250 | 8 | 2 | 1,5 |
| DA 1020 | 106 | 72 | 218 | 0 | 3 | 2,2 |
| DA 1048 | 72 | 35 | 375 | 8 | 2 | 2,2 |
| DA 1030 | 106 | 72 | 284 | 0 | 3 | 2,8 |
| DA 1049 | 72 | 35 | 500 | 8 | 2 | 2,9 |

# SPIN-ON OIL FILTERS

Thanks to its experience in the hydraulic sector, SOTRAS has developed a range of oil filters, especially suitable for screw and vane compressor applications, “bearing in mind,, that these filters will have to endure sudden changes and extreme limits in pressure and temperature. The oil filters that SOTRAS offers are usually of the spin-on type and can be provided with a by pass valve, if it is not already to be found on the heads or in the lubrication circuit.
Generally the most commonly used filtering media is made of cellulose, however fibreglass and metallic mesh versions are available on request.
Every batch undergoes stringent laboratory performance tests in terms of resistance to cyclic and maximum working pressure.


| SOTRAS Ref. | d1 (mm) | d2 (mm) | d3 | h1 (mm) | Non-return Valve-(bar) | by pass Valve (bar) | Nominal flow rate (l/min) | Max. operating Pressure(bar) |
|---|---|---|---|---|---|---|---|---|
| SH 8118 | 76 | 62 | 3/4" 16-UNF | 95 | 0,12 | 2,5 | 15 | 14 |
| SH 8196 | 93 | 62 | 3/4" 16-UNF | 58 | 0,12 | 0,8 | 15 | 14 |
| SH 8113 | 76 | 62 | 3/4" 16-UNF | 125 | 0,12 | 2,5 | 20 | 14 |
| SH 8152 | 76 | 62 | 3/4" 16-UNF | 140 | - | 3,5 | 20 | 35 |
| SH 8153 | 93 | 62 | 3/4" 16-UNF | 97 | - | 2,5 | 25 | 25 |
| SH 8112 | 93 | 62 | 3/4" 16-UNF | 143 | 0,12 | 2,5 | 40 | 14 |
| SH 8119 | 93 | 62 | 1" 12-UNF | 143 | 0,12 | 2,5 | 40 | 14 |
| SH 8154 | 93 | 62 | 3/4" 16-UNF | 144 | - | 2,5 | 40 | 25 |
| SH 8155 | 93 | 62 | 1" 12-UNF | 172 | - | 2,5 | 40 | 25 |
| SH 8143 | 96 | 62 | 3/4" G | 146 | - | - | 40 | 14 |
| SH 8146 | 93 | 62 | 1" 12-UNF | 170 | 0,12 | 2,5 | 45 | 14 |
| SH 8130 | 96 | 62 | 3/4" G | 193 | - | - | 55 | 14 |
| SH 8147 | 93 | 62 | 1" 12-UNF | 210 | 0,12 | 2,5 | 70 | 14 |
| SH 8149 | 108 | 62 | 1" 12-UNF | 210 | 0,12 | 1,2 | 70 | 14 |
| SH 8107 | 93 | 62 | 1" 12-UNF | 210 | - | 2,5 | 70 | 14 |
| SH 8110 | 93 | 62 | 1" 12-UNF | 212 | - | 2,5 | 70 | 25 |
| SH 8150 | 93 | 62 | M 20x1,5 | 212 | - | 2,5 | 70 | 30 |
| SH 8144 | 127 | 98 | 1" 1/4 G | 182 | - | - | 80 | 14 |
| SH 8114 | 136 | 99 | 1" 1/2 16-UN | 177 | - | - | 95 | 20 |
| SH 8108 | 108 | 93 | 1" 1/8 -16 UN | 260 | 0,12 | 2,5 | 100 | 14 |
| SH 8145 | 127 | 98 | 1" 1/4 G | 228 | - | - | 150 | 12 |
| SH 8109 | 136 | 100 | 1" 1/2 16-UN | 302 | - | 2,5 | 180 | 20 |

# VACUUM AIR FILTERS

Sotras offers a wide range of filters to suit most requirements in this field and the elements are usually interchangeable with those produced by other leading manufacturers.
Steel housings are treated with a special protective coating thereby guaranteeing a longer durability. They also undergo thorough tests to ensure the seals withstand high vacuum levels.
The elements have high dust retention and are available with paper media (having a normal filtration rate of 5 microns) as well as glassfibre media for special applications.