

# 31 Series *In-Line Filters*



- ▶ Flows up to 40 GPM
- ▶ Up to 6,000 PSI
- ▶ Available in 303, 316 (3K) and 17-4PH (6K)
- ▶ Micron Ratings available from 0.2 to 300-Micron

## IN-LINE FILTERS

### ELEMENT OPTIONS

#### 304 Stainless Steel

10 - 150 Micron Abs.  
-320°F to +550°F  
Re-Cleanable

#### Micro Glass

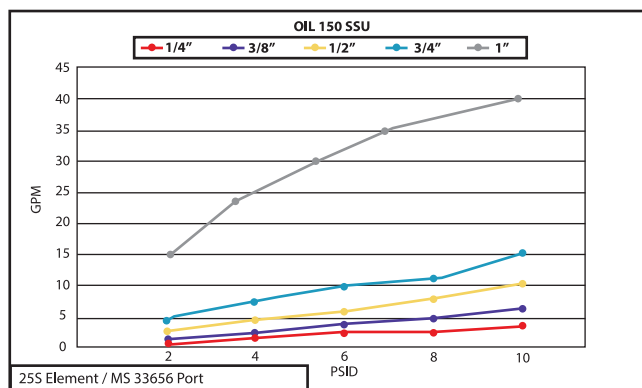
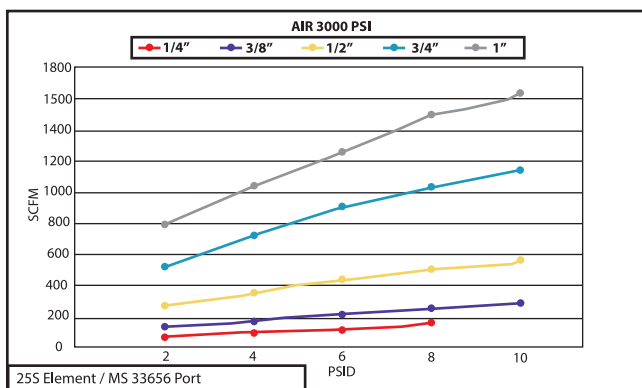
1 - 12 Abs.  
-70°F to +250°F  
Disposable

#### 316 Sintered SSTL

2 - 200 Micron Abs.  
-320°F to +550°F  
Re-Cleanable

### SPECIFICATION CHART

| Replacement Element Number 31E    |      |        | Replacement Element Number 32E    |      |        | Replacement Element Number 33E    |      |        | Replacement Element Number 34E    |      |        | Replacement Element Number 35E     |      |        |
|-----------------------------------|------|--------|-----------------------------------|------|--------|-----------------------------------|------|--------|-----------------------------------|------|--------|------------------------------------|------|--------|
| 1.25" Round                       |      |        | 1.75" Round                       |      |        | 1.75" Round                       |      |        | 2.25" Round                       |      |        | 2.5" Round                         |      |        |
| Threads                           | Size | O.A.L. | Threads                           | Size | O.A.L. | Threads                           | Size | O.A.L. | Threads                           | Size | O.A.L. | Threads                            | Size | O.A.L. |
| NPT                               | 1/8  | 4.81   | NPT                               | 1/8  | 4.75   | NPT                               | 1/4  | 6      | NPT                               | 1/2  | 7.75   | NPT                                | 3/4  | 8.75   |
| MSAE                              | -4   | 4.12   | MSAE                              | -6   | 4.25   | MSAE                              | -8   | 5.5    | MSAE                              | -12  | 8.41   | MSAE                               | -16  | 8.25   |
| FSAE                              | -4   | 4.81   | FSAE                              | -6   | 4.75   | FSAE                              | -8   | 6      | FSAE                              | -12  | 7.75   | FSAE                               | -16  | 8.75   |
| 37° Flare                         | -4   | 4.12   | 37° Flare                         | -6   | 4.25   | 37° Flare                         | -8   | 5.5    | 37° Flare                         | -12  | 7      | 37° Flare                          | -16  | 8.25   |
| AS5202                            | -4   | 4.81   | AS5202                            | -6   | 4.75   | AS5202                            | -8   | 6      | AS5202                            | -12  | 7.75   | AS5202                             | -16  | 8.75   |
| Face Seal                         | -4   | 4.12   | Face Seal                         | -6   | 4.25   | Face Seal                         | -8   | 5.5    | Face Seal                         | -12  | 7      | Face Seal                          | -16  | 8.25   |
| Oil @ 150SSU - 2.5 GPM            |      |        | Oil @ 150SSU - 6 GPM              |      |        | Oil @ 150SSU - 10 GPM             |      |        | Oil @ 150SSU - 16 GPM             |      |        | Oil @ 150SSU - 40 GPM              |      |        |
| Air @ 100psig - 15 SCFM           |      |        | Air @ 100psig - 40 SCFM           |      |        | Air @ 100psig - 75 SCFM           |      |        | Air @ 100psig - 195 SCFM          |      |        | Air @ 100psig - 340 SCFM           |      |        |
| Air @ 3000psig - 155 SCFM         |      |        | Air @ 3000psig - 295 SCFM         |      |        | Air @ 3000psig - 550 SCFM         |      |        | Air @ 3000psig - 1150 SCFM        |      |        | Air @ 3000psig - 1625 SCFM         |      |        |
| Element Area - 11 in <sup>2</sup> |      |        | Element Area - 17 in <sup>2</sup> |      |        | Element Area - 25 in <sup>2</sup> |      |        | Element Area - 63 in <sup>2</sup> |      |        | Element Area - 121 in <sup>2</sup> |      |        |



# 31 Series How to Order

Example Part Number

|                                |                                           |            | A          | B    | C | D  | E  | F | G | H |     |   |
|--------------------------------|-------------------------------------------|------------|------------|------|---|----|----|---|---|---|-----|---|
|                                |                                           |            | 31         | S    | - | 2  | P  | 2 | P | - | 10S | V |
| Section A                      | Description                               | Code       |            |      |   |    |    |   |   |   |     |   |
| Filter Series                  | In-Line Filters                           | 31         | 31         |      |   |    |    |   |   |   |     |   |
| Section B                      |                                           |            |            |      |   |    |    |   |   |   |     |   |
| Housing Material<br>& Pressure | 303 SS - 3,000 PSI                        | S          |            | S    |   |    |    |   |   |   |     |   |
|                                | 17-4 PH SS - 6,000 PSI                    | P          |            | P    |   |    |    |   |   |   |     |   |
|                                | 316 SS - 3,000 PSI & up - Consult Factory | T          |            | T    |   |    |    |   |   |   |     |   |
| Section C                      |                                           |            |            |      |   |    |    |   |   |   |     |   |
| Inlet Port Size                | 1/8"                                      | 2          |            |      |   | 2  |    |   |   |   |     |   |
|                                | 1/4"                                      | 4          |            |      |   | 4  |    |   |   |   |     |   |
|                                | 3/8"                                      | 6          |            |      |   | 6  |    |   |   |   |     |   |
|                                | 1/2"                                      | 8          |            |      |   | 8  |    |   |   |   |     |   |
|                                | 3/4"                                      | 12         |            |      |   | 12 |    |   |   |   |     |   |
|                                | 1"                                        | 16         |            |      |   | 16 |    |   |   |   |     |   |
| Section D                      |                                           |            |            |      |   |    |    |   |   |   |     |   |
| Inlet Port Type                | Male SAE                                  | M          |            |      |   | M  |    |   |   |   |     |   |
|                                | Male NPT                                  | N          |            |      |   | N  |    |   |   |   |     |   |
|                                | Female NPT                                | P          |            |      |   | P  |    |   |   |   |     |   |
|                                | Female SAE J1926                          | S          |            |      |   | S  |    |   |   |   |     |   |
|                                | 37° Flare                                 | T          |            |      |   | T  |    |   |   |   |     |   |
|                                | AS5202                                    | A          |            |      |   | A  |    |   |   |   |     |   |
|                                | AS1098                                    | C          |            |      |   | C  |    |   |   |   |     |   |
| Section E                      |                                           |            |            |      |   |    |    |   |   |   |     |   |
| Outlet Port<br>Size            | 1/8"                                      | 2          |            |      |   |    | 2  |   |   |   |     |   |
|                                | 1/4"                                      | 4          |            |      |   |    | 4  |   |   |   |     |   |
|                                | 3/8"                                      | 6          |            |      |   |    | 6  |   |   |   |     |   |
|                                | 1/2"                                      | 8          |            |      |   |    | 8  |   |   |   |     |   |
|                                | 3/4"                                      | 12         |            |      |   |    | 12 |   |   |   |     |   |
|                                | 1"                                        | 16         |            |      |   |    | 16 |   |   |   |     |   |
| Section F                      |                                           |            |            |      |   |    |    |   |   |   |     |   |
| Outlet Port<br>Type            | Male SAE                                  | M          |            |      |   |    |    | M |   |   |     |   |
|                                | Male NPT                                  | N          |            |      |   |    |    | N |   |   |     |   |
|                                | Female NPT                                | P          |            |      |   |    |    | P |   |   |     |   |
|                                | Female SAE J1926                          | S          |            |      |   |    |    | S |   |   |     |   |
|                                | 37° Flare                                 | T          |            |      |   |    |    | T |   |   |     |   |
|                                | AS5202                                    | A          |            |      |   |    |    | A |   |   |     |   |
|                                | AS1098                                    | C          |            |      |   |    |    | C |   |   |     |   |
| Section G                      |                                           |            |            |      |   |    |    |   |   |   |     |   |
|                                | Material                                  | Micron/Nom | Micron/Abs |      |   |    |    |   |   |   |     |   |
| Micron Rating/<br>Material     | 316 Sintered SSTL                         | 0.2        | .2P        |      |   |    |    |   |   |   |     |   |
|                                | 316 Sintered SSTL                         | 0.7        | .7P        |      |   |    |    |   |   |   |     |   |
|                                | 316 Sintered SSTL                         | 2          | 2P         |      |   |    |    |   |   |   |     |   |
|                                | 316 Sintered SSTL                         | 5          | 5P         |      |   |    |    |   |   |   |     |   |
|                                | Microglass 3250 PSID                      | 1          | 1M         |      |   |    |    |   |   |   |     |   |
|                                | Microglass 3250 PSID                      | 3          | 3M         |      |   |    |    |   |   |   |     |   |
|                                | Microglass 3250 PSID                      | 6          | 6M         |      |   |    |    |   |   |   |     |   |
|                                | Microglass 3250 PSID                      | 12         | 12M        |      |   |    |    |   |   |   |     |   |
|                                | 304 SSTL 4500 PSID                        | 2          | 10         | 10S  |   |    |    |   |   |   |     |   |
|                                | 304 SSTL 4500 PSID                        | 5          | 18         | 18S  |   |    |    |   |   |   |     |   |
|                                | 304 SSTL 4500 PSID                        | 10         | 25         | 25S  |   |    |    |   |   |   |     |   |
|                                | 304 SSTL 4500 PSID                        | 20         | 40         | 40S  |   |    |    |   |   |   |     |   |
|                                | 304 SSTL 4500 PSID                        | 40         | 75         | 75S  |   |    |    |   |   |   |     |   |
|                                | 304 SSTL 4500 PSID                        | 100        | 150        | 150S |   |    |    |   |   |   |     |   |
| Section H                      |                                           |            |            |      |   |    |    |   |   |   |     |   |
| O-Ring<br>Material             | Buna                                      | N          |            |      |   |    |    |   |   |   |     |   |
|                                | Viton®                                    | V          |            |      |   |    |    |   |   |   |     |   |
|                                | EPR                                       | E          |            |      |   |    |    |   |   |   |     |   |
|                                | Teflon® (Consult Factory)                 | T          |            |      |   |    |    |   |   |   |     |   |
|                                | Kalrez®                                   | K          |            |      |   |    |    |   |   |   |     |   |
|                                | Teflon Encapsulated Viton                 | S          |            |      |   |    |    |   |   |   |     |   |

## Replacement Element

|                  |                                               |             | See Chart | 2 | G     | H |
|------------------|-----------------------------------------------|-------------|-----------|---|-------|---|
|                  |                                               |             | 31        | E | - 25S | N |
| <b>Section A</b> | <b>Description</b>                            | <b>Code</b> |           |   |       |   |
| Element Size     | Replacement Element - See Specification Chart | 31          |           |   |       |   |
|                  |                                               |             |           |   |       |   |
|                  |                                               |             |           |   |       |   |
|                  |                                               |             |           |   |       |   |
| <b>Section G</b> |                                               |             |           |   |       |   |
| Micron Rating    | See Section G Above For Code                  |             |           |   |       |   |
| <b>Section H</b> |                                               |             |           |   |       |   |
| O-Ring           | See Section H Above For Code                  |             |           |   |       |   |



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