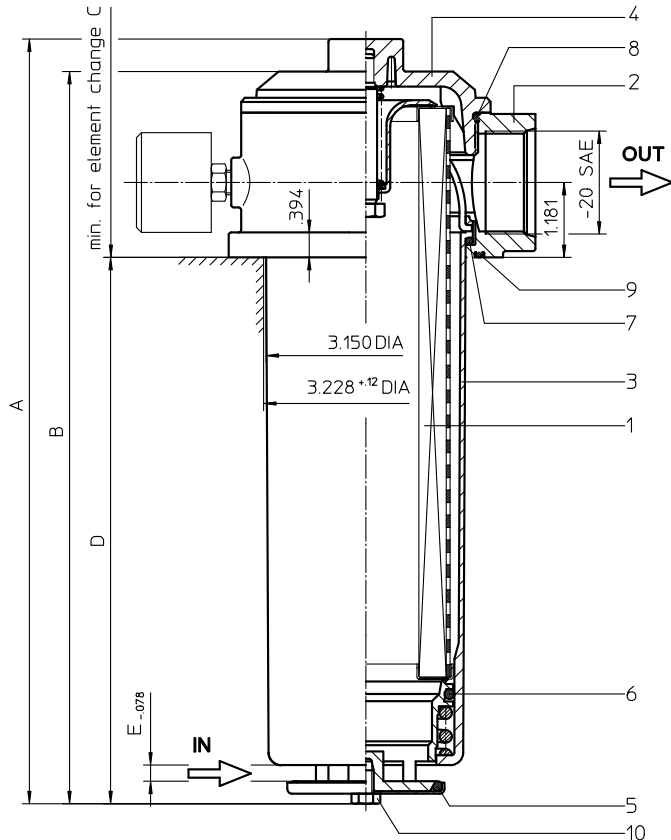
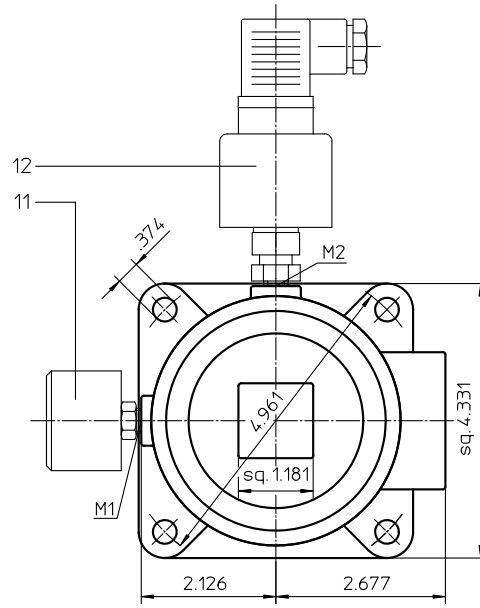


Series TS 210-310



Dimensions:

| type | TS 210 | TS 310 |
|-------------|-----------|-----------|
| connection | - 20 SAE | -20 SAE |
| A | 12.09 | 15.47 |
| B | 11.57 | 14.96 |
| C | 11.42 | 14.76 |
| D | 8.62 | 12.00 |
| E | .26 | .30 |
| weight | 5.10 lbs. | 6.60 lbs. |
| volume tank | .30 Gal. | .40 Gal. |

Dimensions: inches

Designs and performance values are subject to change.



Powering Business Worldwide

Suction Filter

Series TS 210-310

Description:

The TS-filters are directly mounted to the reservoir and connected to the suction-line. The suction inlet connection must be below the oil level.

The filter element consists of star-shaped, pleated filter material, which is supported on the inside by a perforated core tube and is bonded to the end caps with a high-quality adhesive. The flow direction is from outside to inside.

Eaton filter elements are known for a high intrinsic stability and an excellent filtration capability, a high dirt-retaining capacity and a long service life.

For filtration finer than 40 µm use the disposable elements made of microglass. Filter elements as fine as 5 µm(c) are available; finer filter elements on request.

Eaton filter elements can be used for petroleum-based fluids, HW emulsions, water glycols, most synthetic fluids and lubrication fluids. Consult factory for specific fluid applications.

When removing the filter cover, a plate-shaped valve closes the suction-inlet of the filter bowl and prevents dirty oil from flowing into the tank. For cleaning, the filter bowl and the filter element can be taken out of the filter head.

1. Type index:

1.1. Complete filter: (ordering example)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|
| TS. 210. 10VG. - . B. P. - . UG. 6. - . - . O1. E4 | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

- 1 | **series:**
TS = suction filter for vertical tank-mounting
- 2 | **nominal size:** 210, 310
- 3 | **filter-material and filter-fineness:**
80G, 40G, 25G stainless steel wire mesh
25VG, 16VG, 10VG, 6VG, 3VG microglass
10P paper
- 4 | **resistance of pressure difference for filter element:**
- = not specified
- 5 | **filter element design:**
B = both sides open
- 6 | **sealing material:**
P = Nitrile (NBR)
V = Viton (FPM)
- 7 | **filter element specification:**
- = standard
VA = stainless steel
- 8 | **process connection:**
UG = thread connection
- 9 | **process connection size:**
6 = -20 SAE
- 10 | **filter housing specification:**
- = standard
- 11 | **internal valve:**
- = without
S = with by-pass valve Δp 4.1 PSI
- 12 | **clogging indicator at M1:**
- = without
O1 = visual, see sheet-no. 1616
E4 = pressure switch, see sheet-no. 1616
- 13 | **clogging indicator at M2:**
possible indicators see position 12 of the type index

To add an indicator to your filter, use the corresponding indicator data sheet to find the indicator details and add them to the filter assembly model code.

1.2. Filter element: (ordering example)

| | | | | | | |
|--------------------------------------|---|---|---|---|---|---|
| 01TS. 210. 10VG. - . B. - . - | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |

- 1 | **series:**
01TS. = suction filter element according to company standard
- 2 | **nominal size:** 210, 310
- 3 | - 5 | / 7 | see type index-complete filter
- 6 | **seling material:**
- = without

Technical data:

| | |
|------------------------|--|
| design temperature: | 14 °F to +212 °F |
| operating temperature: | 14 °F to +176 °F |
| operating medium | mineral oil, other media on request |
| process connection: | thread connection |
| housing material: | Al-casting, glass fiber reinforced polyamide |
| sealing material: | Nitrile (NBR) or Viton (FPM), other materials on request |
| installation position: | vertical |

Classified under the Pressure Equipment Directive 2014/68/EC for mineral oil (fluid group 2), Article 4, Para. 3.
 Classified under ATEX Directive 2014/34/EC according to specific application (see questionnaire sheet-no. 34279-4).

Pressure drop flow curves:

Filter calculation/sizing

The pressure drop of the assembly at a given flow rate Q is the sum of the housing Δp and the element Δp and is calculated as follows:

$$\Delta p_{assembly} = \Delta p_{housing} + \Delta p_{element}$$

$$\Delta p_{housing} = (\text{see } \Delta p = f(Q) \text{ - characteristics})$$

$$\Delta p_{element} (PSI) = Q (GPM) \times \frac{MSK}{1000} \left(\frac{PSI}{GPM} \right) \times \nu (SUS) \times \frac{\rho}{0.876} \left(\frac{kg}{dm^3} \right)$$

For ease of calculation our Filter Selection tool is available online at www.eatonpowersource.com/calculators/filtration/

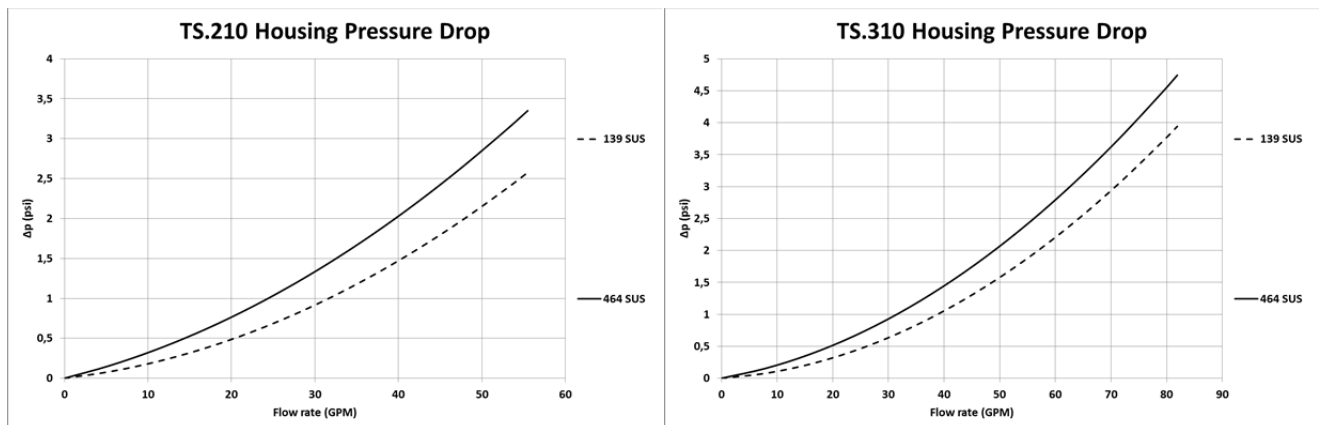
Material gradient coefficients (MSK) for filter elements

The material gradient coefficients in psi/gpm apply to mineral oil (HLP) with a density of 0.876 kg/dm³ and a kinematic viscosity of 139 SUS (30 mm²/s). The pressure drop changes proportionally to the change in kinematic viscosity and density.

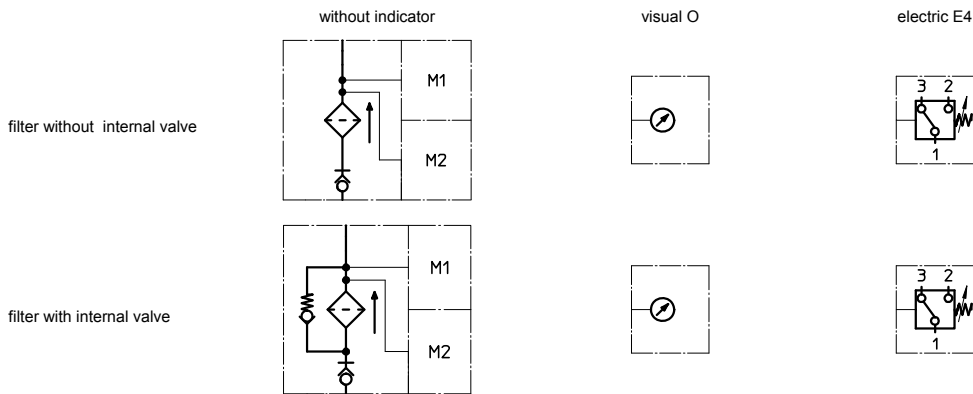
| TS | VG | | | | | G | | | P |
|-----|-------|-------|-------|-------|-------|--------|--------|--------|-------|
| | 3VG | 6VG | 10VG | 16VG | 25VG | 25G | 40G | 80G | 10P |
| 210 | 2.250 | 1.562 | 1.000 | 0.871 | 0.595 | 0.0826 | 0.0612 | 0.0571 | 0.443 |
| 310 | 1.628 | 1.130 | 0.724 | 0.630 | 0.430 | 0.0598 | 0.0443 | 0.0413 | 0.321 |

$\Delta p = f(Q)$ – characteristics according to ISO 3968

The pressure drop characteristics apply to mineral oil (HLP) with a density of 0.876 kg/dm³. The pressure drop changes proportionally to the density.



Symbols:



Spare parts:

| item | qty. | designation | dimension | | article-no. | |
|------|------|----------------------------|-------------|-------------|--------------|--------------|
| | | | TS 210 | TS 310 | | |
| 1 | 1 | filter element | 01TS.210... | 01TS.310... | | |
| 2 | 1 | filter head | | | 304423 | |
| 3 | 1 | filter bowl | | | 304518.1 | |
| 4 | 1 | filter cover | M 90 x 2 | | | |
| 5 | 1 | O-ring | 53 x 4 | | 309143 (NBR) | 332434 (FPM) |
| 6 | 1 | O-ring | 62 x 4 | | 308045 (NBR) | 311472 (FPM) |
| 7 | 1 | O-ring | 75 x 3 | | 302215 (NBR) | 304729 (FPM) |
| 8 | 1 | O-ring | 82 x 3 | | 305191 (NBR) | 305298 (FPM) |
| 9 | 1 | O-ring | 88 x 3 | | 304417 (NBR) | 310266 (FPM) |
| 10 | 1 | sheet metal screw | B 6,3 x 13 | | 316641 | |
| 11 | 1 | clogging indicator, visual | O1 | | 301722 | |
| 12 | 1 | pressure switch, electric | E4 | | 311016 | |

Test methods:

Filter elements are tested according to the following ISO standards:

| | |
|-----------|---|
| ISO 2941 | Verification of collapse/burst resistance |
| ISO 2942 | Verification of fabrication integrity |
| ISO 2943 | Verification of material compatibility with fluids |
| ISO 3723 | Method for end load test |
| ISO 3724 | Verification of flow fatigue characteristics |
| ISO 3968 | Evaluation of pressure drop versus flow characteristics |
| ISO 16889 | Multi-pass method for evaluating filtration performance |

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Brazil

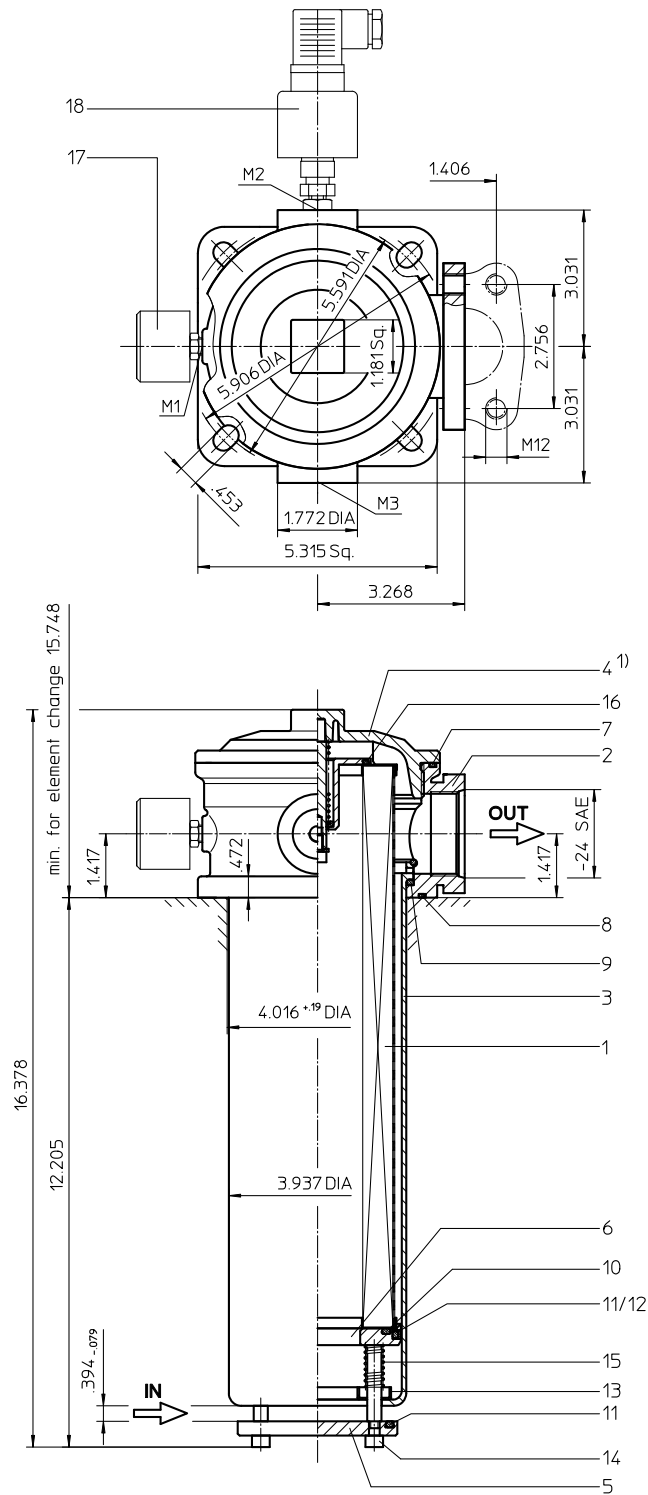
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Series TS 426



¹⁾ The bypass valve is contained in the screw plug. For filters without a by-pass valve, the opening pressure is Δp 14.5 PSI.

Weight: approx. 12.5 lbs.

Dimensions: inches

Designs and performance values are subject to change.

Suction Filter Series TS 426

Description:

The TS-filters are directly mounted to the reservoir and connected to the suction-line. The suction inlet connection must be below the oil level.

The filter element consists of star-shaped, pleated filter material, which is supported on the inside by a perforated core tube and is bonded to the end caps with a high-quality adhesive. The flow direction is from outside to inside.

Eaton filter elements are known for a high intrinsic stability and an excellent filtration capability, a high dirt-retaining capacity and a long service life.

For filtration finer than 40 µm use the disposable elements made of microglass. Filter elements as fine as 5 µm(c) are available; finer filter elements on request.

Eaton filter elements can be used for petroleum-based fluids, HW emulsions, water glycols, most synthetic fluids and lubrication fluids. Consult factory for specific fluid applications.

When removing the filter cover, a plate-shaped valve closes the suction-inlet of the filter bowl and prevents dirty oil from flowing into the tank. For cleaning, the filter bowl and the filter element can be taken out of the filter head.

1. Type index:

1.1. Complete filter: (ordering example)

TS. 426. 10VG. - . B. P. - . UG. 7. - . - . O1. E4. -

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|

- 1 | **series:**
TS = suction filter for vertical tank-mounting
- 2 | **nominal size:** 426
- 3 | **filter-material and filter-fineness:**
80G, 40G, 25G stainless steel wire mesh
25VG, 16VG, 10VG, 6VG, 3VG microglass
10P paper
- 4 | **filter element collapse rating:**
- = not specified
- 5 | **filter element design:**
B = both sides open
- 6 | **sealing material:**
P = Nitrile (NBR)
V = Viton (FPM)
- 7 | **filter element specification:**
- = standard
VA = stainless steel
- 8 | **process connection:**
UG = thread connection
FS = SAE-flange 3000 PSI
- 9 | **process connection size:**
7 = -24 SAE or 1 1/2" SAE
- 10 | **filter housing specification:**
- = standard
- 11 | **internal valve:**
- = without
S = with by-pass valve Δp 4.1 PSI
- 12 | **clogging indicator at M1:**
- = without
O1 = visual, see sheet-no. 1616
E4 = pressure switch, see sheet-no. 1616
- 13 | **clogging indicator at M2:**
possible indicators see position 12 of the type index
- 14 | **clogging indicator at M3:**
possible indicators see position 12 of the type index

To add an indicator to your filter, use the corresponding indicator data sheet to find the indicator details and add them to the filter assembly model code.

1.2. Filter element: (ordering example)

01TS. 425. 10VG. - . B. - . -

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|

- 1 | **series:**
01TS. = suction filter element according to company standard
- 2 | **nominal size:** 425
- 3 | - 5 | / 7 | see type index-complete filter
- 6 | **seling material:**
- = without

Technical data:

| | |
|------------------------|--|
| design temperature: | 14 °F to +212 °F |
| operating temperature: | 14 °F to +176 °F |
| operating medium | mineral oil, other media on request |
| process connection: | thread connection or SAE-flange 3000 PSI |
| housing material: | Al-casting, glass fiber reinforced polyamide |
| sealing material: | Nitrile (NBR) or Viton (FPM), other materials on request |
| installation position: | vertical |
| volume tank: | .70 Gal. |

Classified under the Pressure Equipment Directive 2014/68/EC for mineral oil (fluid group 2), Article 4, Para. 3.
 Classified under ATEX Directive 2014/34/EC according to specific application (see questionnaire sheet-no. 34279-4).

Pressure drop flow curves:

Filter calculation/sizing

The pressure drop of the assembly at a given flow rate Q is the sum of the housing Δp and the element Δp and is calculated as follows:

$$\Delta p_{assembly} = \Delta p_{housing} + \Delta p_{element}$$

$$\Delta p_{housing} = (\text{see } \Delta p = f(Q) \text{ - characteristics})$$

$$\Delta p_{element} (PSI) = Q (GPM) \times \frac{MSK}{1000} \left(\frac{PSI}{GPM} \right) \times \nu (SUS) \times \frac{\rho}{0.876} \left(\frac{kg}{dm^3} \right)$$

For ease of calculation our Filter Selection tool is available online at www.eatonpowersource.com/calculators/filtration/

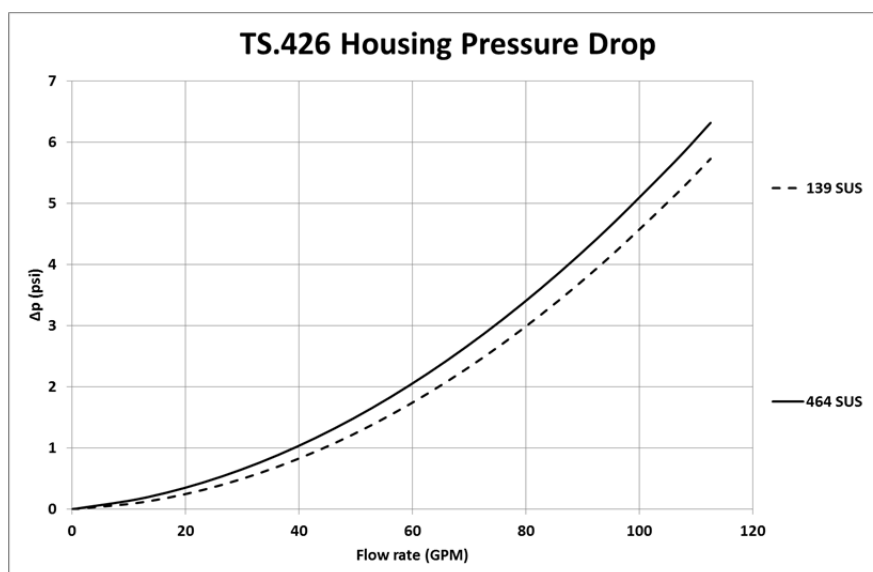
Material gradient coefficients (MSK) for filter elements

The material gradient coefficients in psi/gpm apply to mineral oil (HLP) with a density of 0.876 kg/dm³ and a kinematic viscosity of 139 SUS (30 mm²/s). The pressure drop changes proportionally to the change in kinematic viscosity and density.

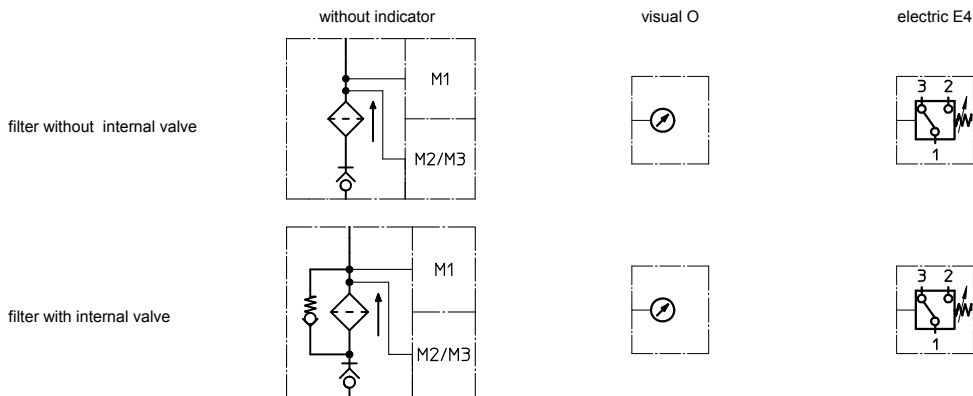
| TS | VG | | | | | G | | | P |
|-----|-------|-------|-------|-------|-------|--------|--------|--------|-------|
| | 3VG | 6VG | 10VG | 16VG | 25VG | 25G | 40G | 80G | 10P |
| 426 | 0.887 | 0.616 | 0.394 | 0.343 | 0.235 | 0.0226 | 0.0211 | 0.0144 | 0.188 |

$\Delta p = f(Q)$ – characteristics according to ISO 3968

The pressure drop characteristics apply to mineral oil (HLP) with a density of 0.876 kg/dm³. The pressure drop changes proportionally to the density.



Symbols:



Spare parts:

| item | qty. | designation | dimension | article-no. | |
|------|------|------------------------------|----------------------|--------------|--------------|
| 1 | 1 | filter element | 01TS.425... | | |
| 2 | 1 | filter head | NG 426 | | |
| 3 | 1 | filter bowl | NG 426 | | |
| 4 | 1 | screw plug with by-pass | M 120 x 3 | | |
| | 1 | screw plug without by-pass | M 120 x 3 | | |
| 5 | 1 | valve disc | | 311892 | |
| 6 | 1 | valve bushing | | 307548 | |
| 7 | 1 | O-ring | 128 x 3 | 304602 (NBR) | 308140 (FPM) |
| 8 | 1 | O-ring | 115 x 3 | 303963 (NBR) | 307762 (FPM) |
| 9 | 1 | O-ring | 98 x 4 | 301914 (NBR) | 304765 (FPM) |
| 10 | 1 | O-ring | 70 x 4 | 306253 (NBR) | 310280 (FPM) |
| 11 | 2 | O-ring | 76 x 4 | 305599 (NBR) | 310291 (FPM) |
| 12 | 1 | sliding ring | | 307547 | |
| 13 | 1 | pressure ring | | 307549 | |
| 14 | 1 | fillister head cap screw | M 6 x 60 | 307534 | |
| 15 | 1 | spring | 1,6 x 10 x 53 x 12.5 | 311847 | |
| 16 | 1 | O-ring | 50 x 3 | 307398 (NBR) | 314682 (FPM) |
| 17 | 1 | clogging indicator, visual | O1 | 301722 | |
| 18 | 1 | clogging indicator, electric | E4 | 311016 | |

Test methods:

Filter elements are tested according to the following ISO standards:

| | |
|-----------|---|
| ISO 2941 | Verification of collapse/burst resistance |
| ISO 2942 | Verification of fabrication integrity |
| ISO 2943 | Verification of material compatibility with fluids |
| ISO 3723 | Method for end load test |
| ISO 3724 | Verification of flow fatigue characteristics |
| ISO 3968 | Evaluation of pressure drop versus flow characteristics |
| ISO 16889 | Multi-pass method for evaluating filtration performance |

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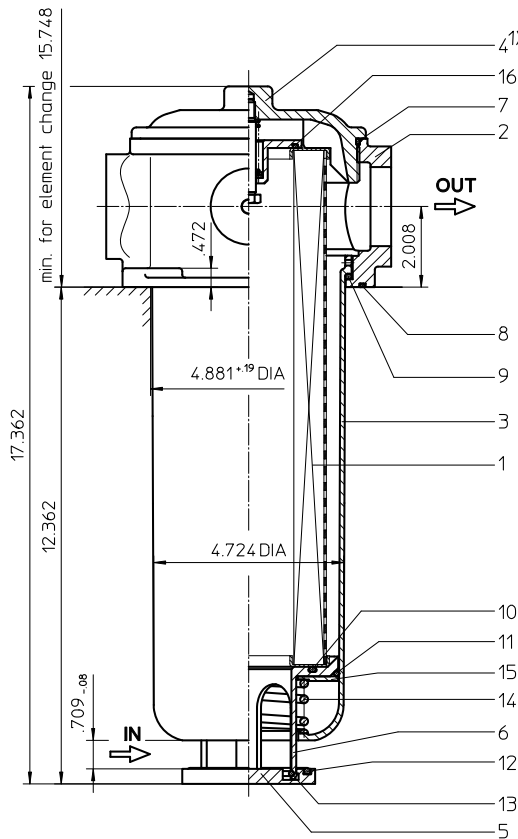
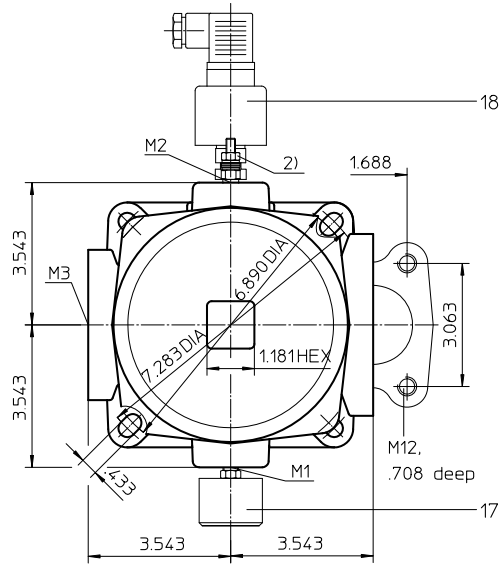
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Series TS 625



¹⁾The bypass valve is contained in the screw plug. For filters without a by-pass valve, the opening pressure is Δp 14.5 PSI.

²⁾ Connect the stand grounding tab to a suitable earth ground point.

Weight: approx. 12.0 lbs.

Dimensions: inches

Designs and performance values are subject to change.



Powering Business Worldwide

Suction Filter Series TS 625

Description:

The TS-filters are directly mounted to the reservoir and connected to the suction-line. The suction inlet connection must be below the oil level.

The filter element consists of star-shaped, pleated filter material, which is supported on the inside by a perforated core tube and is bonded to the end caps with a high-quality adhesive. The flow direction is from outside to inside.

Eaton filter elements are known for a high intrinsic stability and an excellent filtration capability, a high dirt-retaining capacity and a long service life.

For filtration finer than 40 µm use the disposable elements made of microglass. Filter elements as fine as 5 µm(c) are available; finer filter elements on request.

Eaton filter elements can be used for petroleum-based fluids, HW emulsions, water glycols, most synthetic fluids and lubrication fluids. Consult factory for specific fluid applications.

When removing the filter cover, a plate-shaped valve closes the suction-inlet of the filter bowl and prevents dirty oil from flowing into the tank. For cleaning, the filter bowl and the filter element can be taken out of the filter head.

1. Type index:

1.1. Complete filter: (ordering example)

TS. 625. 10VG. - . B. P. - . FS. 8. - . - . O1. E4. -

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|

- 1 | **series:**
TS = suction filter for vertical tank-mounting
- 2 | **nominal size:** 625
- 3 | **filter-material and filter-fineness:**
80G, 40G, 25G stainless steel wire mesh
25VG, 16VG, 10VG, 6VG, 3VG microglass
10P paper
- 4 | **filter element collapse rating:**
- = not specified
- 5 | **filter element design:**
B = both sides open
- 6 | **sealing material:**
P = Nitrile (NBR)
V = Viton (FPM)
- 7 | **filter element specification:**
- = standard
VA = stainless steel
- 8 | **process connection:**
FS = SAE-flange 3000 PSI
- 9 | **process connection size:**
8 = 2"
- 10 | **filter housing specification:**
- = standard
IS11 = for filter head and filter cover, see sheet-no. 40530
- 11 | **internal valve:**
- = without
S = with by-pass valve Δp 4.1 PSI
- 12 | **clogging indicator at M1:**
- = without
O1 = visual, see sheet-no. 1616
E4 = pressure switch, see sheet-no. 1616
PA = ground connection
- 13 | **clogging indicator at M2:**
possible indicators see position 12 of the type index
- 14 | **clogging indicator at M3:**
possible indicators see position 12 of the type index

1.2. Filter element: (ordering example)

01TS. 625. 10VG. - . B. - . -

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|

- 1 | **series:**
01TS. = suction filter element according to company standard
- 2 | **nominal size:** 625
- 3 | - 5 | / 7 | see type index-complete filter
- 6 | **seling material:**
- = without

Technical data:

| | |
|----------------------------|--|
| design temperature: | 14 °F to +212 °F |
| operating temperature: | 14 °F to +176 °F |
| operating medium | mineral oil, other media on request |
| process connection: | SAE-flange 3000 PSI |
| housing material standard: | filter head, filter cover AL / filter bowl glass fibre reinforced polyamide |
| housing material IS11: | filter head, filter cover GG / filter bowl carbon fibre reinforced polyamide |
| sealing material: | Nitrile (NBR) or Viton (FPM), other materials on request |
| installation position: | vertical |
| volume tank: | 1.0 Gal. |

Classified under the Pressure Equipment Directive 2014/68/EC for mineral oil (fluid group 2), Article 4, Para. 3.
 Classified under ATEX Directive 2014/34/EC according to specific application (see questionnaire sheet-no. 34279-4).

Pressure drop flow curves:

Filter calculation/sizing

The pressure drop of the assembly at a given flow rate Q is the sum of the housing Δp and the element Δp and is calculated as follows:

$$\Delta p_{assembly} = \Delta p_{housing} + \Delta p_{element}$$

$$\Delta p_{housing} = (\text{see } \Delta p = f(Q) \text{ - characteristics})$$

$$\Delta p_{element} (PSI) = Q (GPM) \times \frac{MSK}{1000} \left(\frac{PSI}{GPM} \right) \times v (SUS) \times \frac{\rho}{0.876} \left(\frac{kg}{dm^3} \right)$$

For ease of calculation our Filter Selection tool is available online at www.eatonpowersource.com/calculators/filtration/

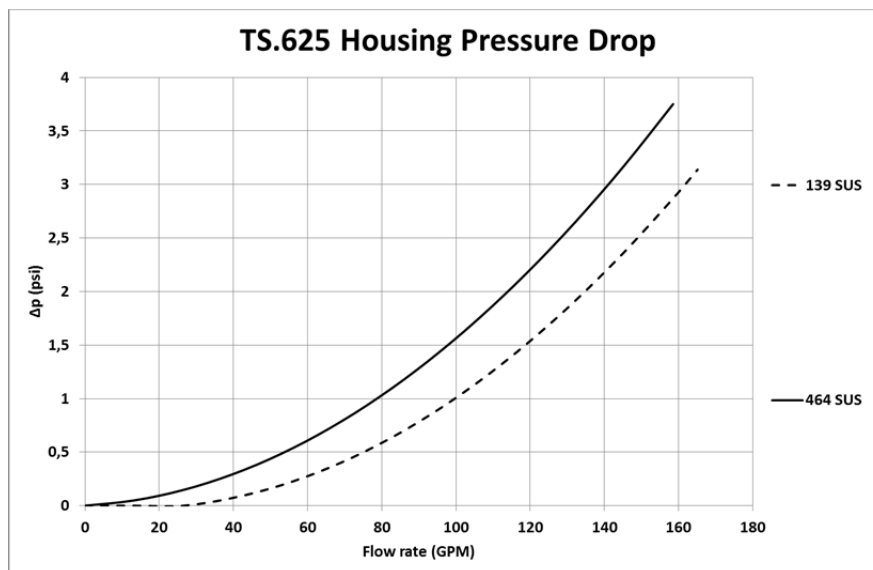
Material gradient coefficients (MSK) for filter elements

The material gradient coefficients in psi/gpm apply to mineral oil (HLP) with a density of 0.876 kg/dm³ and a kinematic viscosity of 139 SUS (30 mm²/s). The pressure drop changes proportionally to the change in kinematic viscosity and density.

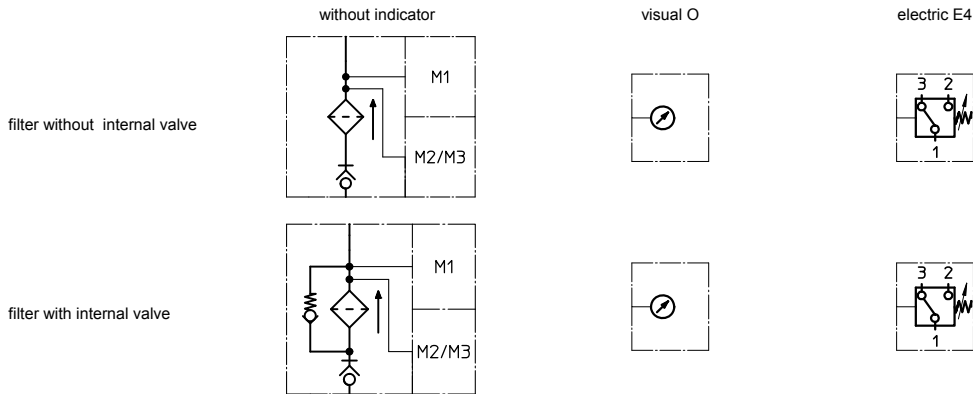
| TS | VG | | | | | G | | | P |
|-----|-------|-------|-------|-------|-------|--------|--------|--------|-------|
| | 3VG | 6VG | 10VG | 16VG | 25VG | 25G | 40G | 80G | 10P |
| 625 | 0.733 | 0.509 | 0.326 | 0.284 | 0.194 | 0.0170 | 0.0159 | 0.0109 | 0.160 |

$\Delta p = f(Q)$ – characteristics according to ISO 3968

The pressure drop characteristics apply to mineral oil (HLP) with a density of 0.876 kg/dm³. The pressure drop changes proportionally to the density.



Symbols:



Spare parts:

| item | qty. | designation | dimension | article-no. | |
|------|------|----------------------------------|----------------------|--------------|--------------|
| 1 | 1 | filter element | 01TS 625... | | |
| 2 | 1 | filter head | NG 625 | | |
| 3 | 1 | filter bowl | NG 625 | | |
| 4 | 1 | screw plug with by-pass valve | M 140 x 3 | | |
| | 1 | screw plug without by-pass valve | M 140 x 3 | | |
| 5 | 1 | valve disc | | 318740 | |
| 6 | 1 | valve bushing | | 318739 | |
| 7 | 1 | O-ring | 135 x 3,5 | 318386 (NBR) | 318387 (FPM) |
| 8 | 1 | O-ring | 140 x 3 | 304604 (NBR) | 307514 (FPM) |
| 9 | 1 | O-ring | 120 x 4 | 305300 (NBR) | 307991 (FPM) |
| 10 | 1 | O-ring | 76 x 4 | 305599 (NBR) | 310291 (FPM) |
| 11 | 1 | O-ring | 104,37 x 3,53 | 304339 (NBR) | 304390 (FPM) |
| 12 | 1 | O-ring | 70 x 4 | 306253 (NBR) | 310280 (FPM) |
| 13 | 1 | snap ring | B 55 | 311976 | |
| 14 | 1 | spring | 5,0 x 70 x 117 x 3,5 | 318742 | |
| 15 | 1 | disc | | 318741 | |
| 16 | 1 | O-ring | 56 x 3 | 307398 (NBR) | 314682 (FPM) |
| 17 | 1 | clogging indicator, visual | E4 | 311016 | |
| 18 | 1 | clogging indicator, electrical | O1 | 301722 | |

Test methods:

Filter elements are tested according to the following ISO standards:

| | |
|-----------|---|
| ISO 2941 | Verification of collapse/burst resistance |
| ISO 2942 | Verification of fabrication integrity |
| ISO 2943 | Verification of material compatibility with fluids |
| ISO 3723 | Method for end load test |
| ISO 3724 | Verification of flow fatigue characteristics |
| ISO 3968 | Evaluation of pressure drop versus flow characteristics |
| ISO 16889 | Multi-pass method for evaluating filtration performance |

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