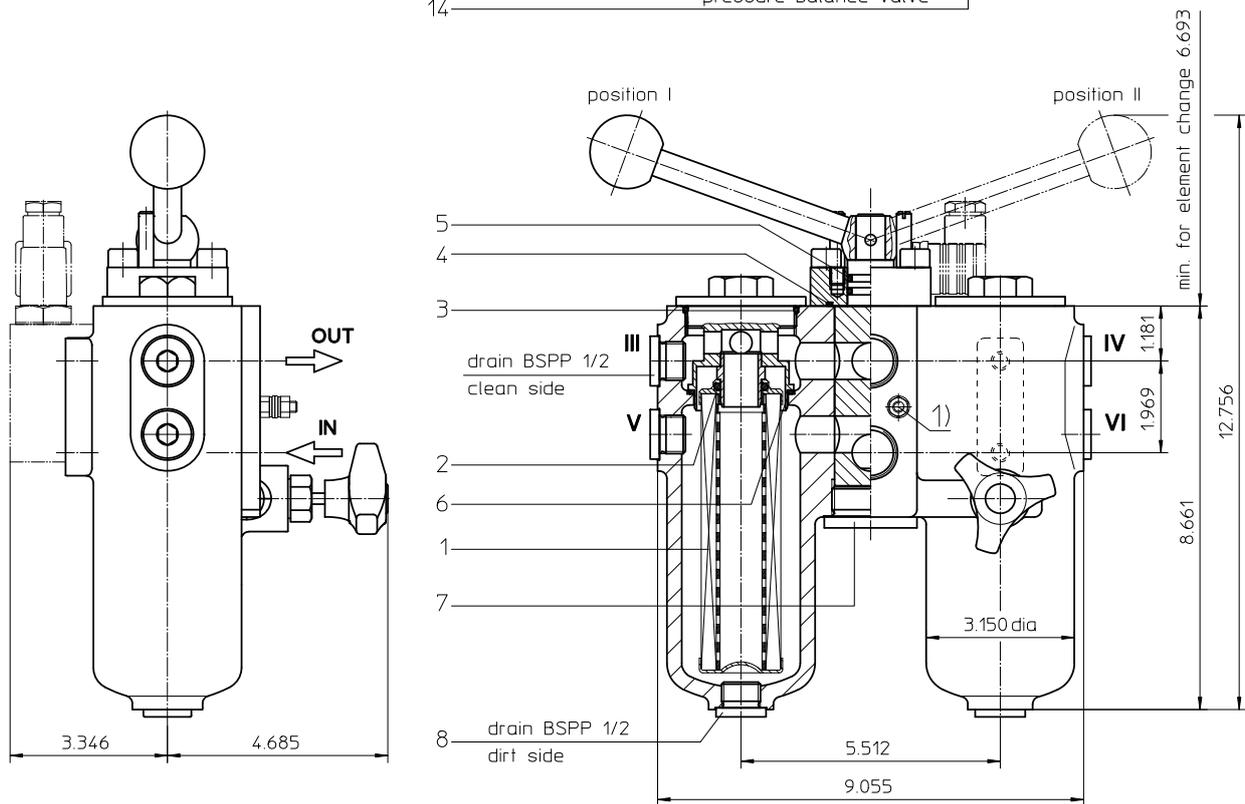
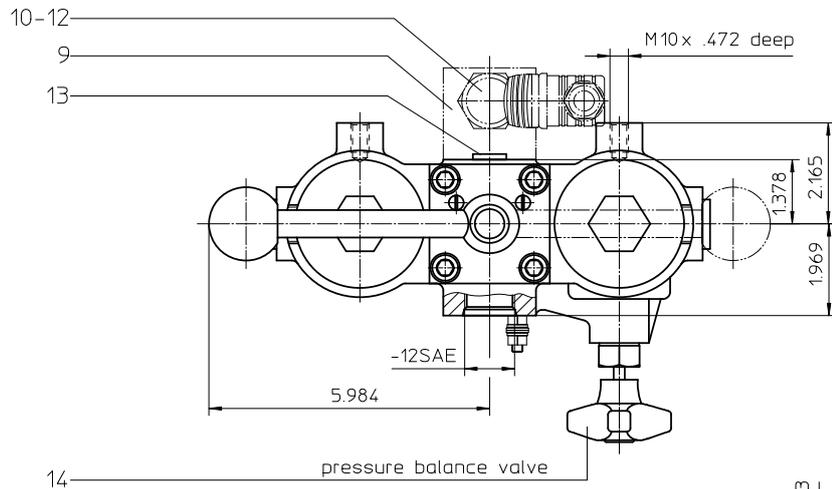


Series DU 63

914 PSI

Position I: Left filter-side in operation
 Position II: Right filter-side in operation



Measuring connection III, IV: Drain BSPP ½ - clean side
 Measuring connection V, VI : Air bleeding, pressure relief BSPP ½ - dirt side

1) Connection for the potential equalization, only for application in the explosive area.

weight: approx. 33 lbs.

Dimensions: inches

Designs and performance values are subject to change.



Powering Business Worldwide

Pressure Filter, change over Series DU 63 914 PSI

Description:

Pressure filter change over series DU63 have a working pressure up to 914 PSI. Pressure peaks can be absorbed with a sufficient safety margin.

A rotary slide valve integrated in the middle of the housing makes it possible to switch from the dirty filter-side to the clean filter-side without interrupting operation. These filters can be installed as suction filters.

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.

For cleaning the stainless steel mesh element or changing the filter element, remove the cover and take out the element. The mesh elements are not guaranteed to maintain 100% performance after cleaning.

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 are available upon request.

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.

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

The bypass valve is integrated in the filter cover. After reaching the bypass pressure setting, the bypass valve will send unfiltered partial flow around the filter.

Ship classifications available upon request.

Type index:

Complete filter: (ordering example)

DU. 63.	10VG.	30.	E.	P.	-.	UG.	4.	-.	-.	-.	AE
1	2	3	4	5	6	7	8	9	10	11	12 13

1 | series:

DU = pressure filter, change over

2 | nominal size: 63

3 | filter-material:

80G, 40G, 25G stainless steel wire mesh
25VG, 16VG, 10VG, 6VG, 3VG microglass
25API, 10API microglass according to API
10P paper

4 | filter element collapse rating:

30 = Δp 435 PSI

5 | filter element design:

E = single end open

6 | sealing material:

P = Nitrile (NBR)
V = Viton (FPM)

7 | filter element specification:

- = standard
VA = stainless steel
IS06 = for HFC application, see sheet-no. 31601

8 | process connection:

UG = thread connection

9 | process connection size:

4 = -12 SAE

10 | filter housing specification:

- = standard

11 | pressure vessel specification.

- = standard (PED 2014/68/EU)

12 | internal valve:

- = without
S1 = with bypass valve Δp 51 PSI

13 | clogging indicator or clogging sensor:

- = without
AOR = visual, see sheet-no.1606
AOC = visual, see sheet-no.1606
AE = visual-electric, see sheet-no.1615
VS5 = electronic, see sheet-no.1619

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

Filter element: (ordering example)

01NL. 63.	10VG.	30.	E.	P.	-
1	2	3	4	5	6 7

1 | series:

01NL. = standard filter element according to DIN 24550, T3

2 | nominal size: 63

3 | - 7 | see type index complete filter

Accessories:

- gauge port and bleeder connection, see sheet-no. 1650
- drain- and bleeder connection, see sheet-no. 1659

Technical data:

operating temperature:	+14°F to +212°F
operating medium:	mineral oil, other media on request
max. operating pressure:	914 PSI
test pressure:	1827 PSI
process connection:	thread connection
housing material:	EN-GJS-400-18-LT
sealing material:	Nitrile (NBR) or Viton (FPM), other materials on request
installation position:	vertical
measuring connections:	BSPP ½
drain- and bleeder connections:	BSPP ½
volume tank:	2x 0.17 Gal.

Classified under the Pressure Equipment Directive 2014/68/EU for mineral oil (fluid group 2), Article 4, Para. 3.
 Classified under ATEX Directive 2014/34/EU 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/

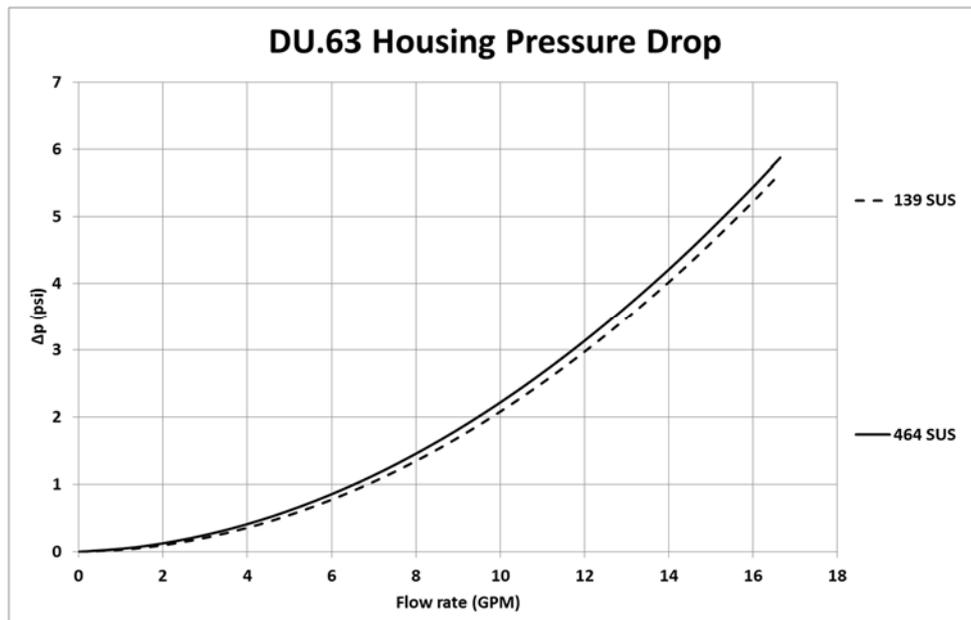
Material gradient coefficients (MSK) for filter elements

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.

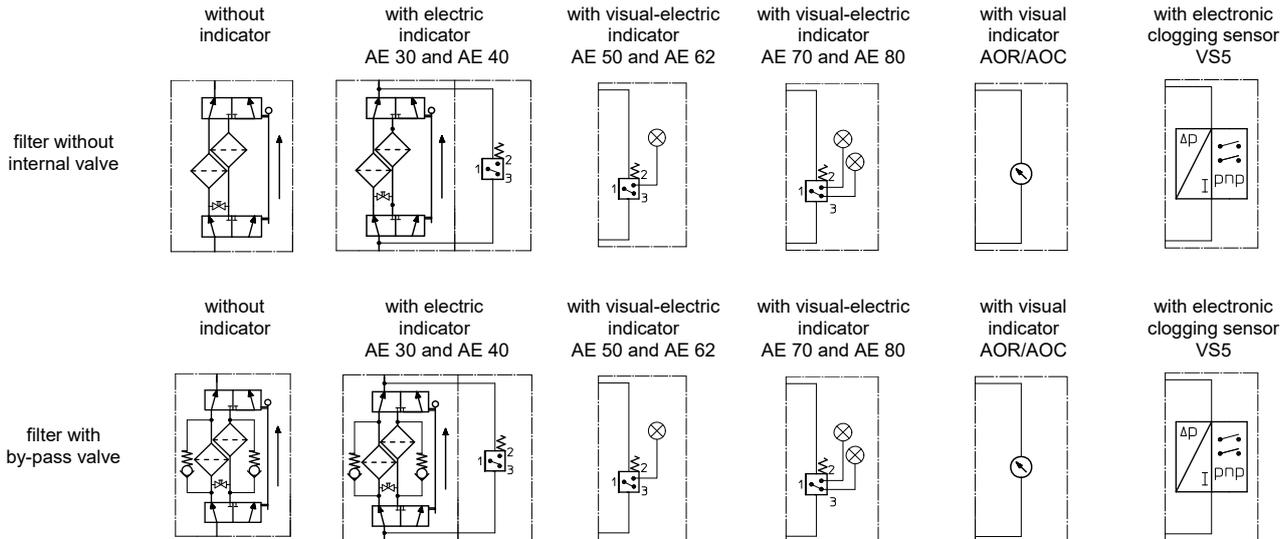
DU	VG					G			P	API	
	3VG	6VG	10VG	16VG	25VG	25G	40G	80G	10P	10API	25API
63	4.214	2.926	1.873	1.631	1.114	0.1131	0.1056	0.0723	0.946	0.993	0.455

$\Delta p = f(Q)$ – 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	2	filter element	01NL.63...		
2	2	O-ring	22 x 3,5	304341 (NBR)	304392 (FPM)
3	2	O-ring	56 x 3	305072 (NBR)	305322 (FPM)
4	1	O-ring	42,52 x 2,62	304352 (NBR)	304393 (FPM)
5	2	O-ring	18 x 3	304359 (NBR)	304399 (FPM)
6	2	O-ring	48 x 3	304357 (NBR)	304404 (FPM)
7	1	screw plug	BSPP 1 ¼	308530	
8	6	screw plug	BSPP ½	304678	
9	1	adapter		314110	
10	1	clogging indicator, visual	AOR or AOC	see sheet-no. 1606	
11	1	clogging indicator, visual-electric	AE	see sheet-no. 1615	
12	1	clogging sensor, electronic	VS5	see sheet-no. 1619	
13	2	screw plug	BSPP ¼	306329	
14	1	pressure balance valve	3/8"	305000	

item 13 execution only without clogging indicator or clogging sensor

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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