

# **Ventilating Filters**

# L1.0406 · L1.0506 · L1.0706 · L1.0807

Connection up to M60 x 2 / 15/8-12 UN-2A · Nominal flow rate up to 850 l/min / 225 gpm







Ventilating Filter L1.0807

## Description

#### **Application**

Ventilation of tanks for hydraulic and lubrication systems and gearboxes.

#### General

The oil levels in the tanks of hydraulic systems are subject to continuous variation due to temperature changes and the operation of cylinders and pressure vessels.

In order to prevent over pressure in the tanks, an exchange of air with the external atmosphere is necessary. By the use of a ventilating filter, the outside air that is drawn in is filtered and the ingress of dust is therefore prevented.

#### **Special features**

The ventilation openings are designed that dust on the surface of the tank is not drawn in, and that the ingress of spray and rainwater is largely prevented. The use in marine applications presents no problem due to the use of synthetic materials and stainless steel.

## Design

Flow direction bi-directional (air IN/OUT). The star-shaped pleating of the filter material results in:

- large filter surfaces
- ) low pressure drop
- > high dirt-holding capacities
- Iong service life

#### Ordering options / versions

Integrated oil-level dipstick (for all types):

A dipstick can be integrated in the ventilating filter for checking the oil level. Therefore, a separate dipstick or an additional opening in the tank is not required.

Oil separator (L1.0406, L1.0706, L1.0807):

An effective protection against splashing oil in mobile operation.

Double check valves (L1.0506, L1.0807):

By the use of double check valves, the exchange of air between the tank and the environment can considerably be reduced, whereby the ingress of dust is minimized and the lifetime of the ventilating filter can be increased.

With the double check valve, an over-pressure can be created in the tank in order to improve the suction conditions for the pumps. A further advantage is the reduction of spray water entry and the loss of oil through the ventilating filter.

Roll-over protection (L1.0506):

Ventilating filter with safety valve to prevent the hydraulic oil spilling out should the machinery roll or tip over.

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Vandalism proof types (L1.0807):

Ventilating filters in patented vandalism proof version, please see catalog sheet 50.20.

Filling and ventilating filters in standard or patented vandalism proof version, see catalog sheet 50.30.

For lockable ventilating filters for high volume flows, see catalog sheet 50.50.

#### Maintenance

Ventilating filters should be changed at least every 1000 operating hours, or at minimum once a year.

#### **Characteristics**

#### Nominal flow rate

Up to 850 l/min / 225 gpm (see Selection Chart, column 2). The nominal flow rates indicated by ARGO-HYTOS are based on the following criteria:

- Ventilating filters without double check valve:  $\Delta p < 0.03$  bar /  $\Delta p \le 0.44$  psi
- > Ventilating filters with double check valve:  $\Delta p < 0.1$  bar /  $\Delta p \le 1.45$  psi for air IN

#### Connection

Threaded ports according to

> ISO 228, DIN 13 or DIN 20400

Sizes see Selection Chart, column 6 (other port threads on request).

For installation recommendations, see info sheet 00.325.

#### Filter fineness

2 µm

Tested in a single pass test with ISO MTD.

#### **Hydraulic fluids**

Mineral oil and biodegradable fluids (HEES and HETG, see info sheet 00.20).

## Temperature range hydraulic fluid

-30 °C ... +100 °C (temporary -40 °C ... +120 °C) -22 °F ... +212 °F (temporary -40 °F ... +248 °F)

#### Temperature range environment

-30 °C ... +100 °C -22 °F ... +212 °F

#### **Materials**

Cap: Polyamide, GF reinforced

(L1.0506 Polyester, GK reinforced)

Base: Polyamide, GF reinforced
Dipstick: Stainless steel (1.4301)
Gaskets: NBR (FPM on request)
Filter media: Composite, multi-layer

#### Mounting position

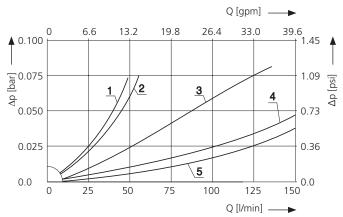
No limitation, position on the tank see section Layout.

Ventilating filters with roll-over protection must be installed vertically.

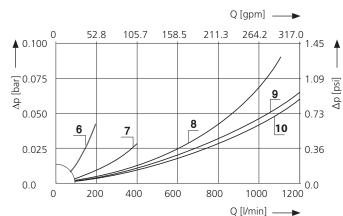
#### **Diagrams**

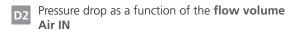
#### ∆p-curves for complete filters in Selection Chart, column 3

Pressure drop as a function of the flow volume
Air IN/OUT

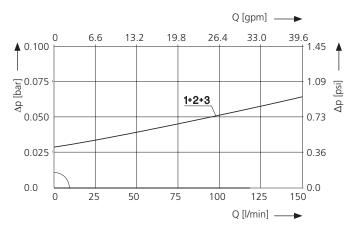


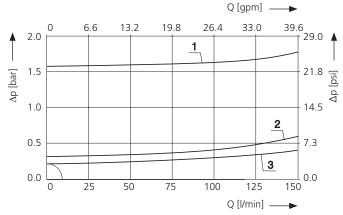
Pressure drop as a function of the **flow volume**Air IN/OUT





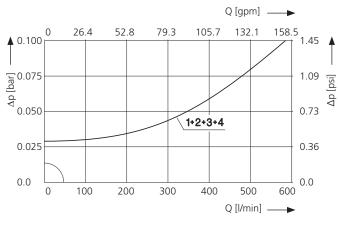
# Pressure drop as a function of the **flow volume** Air OUT

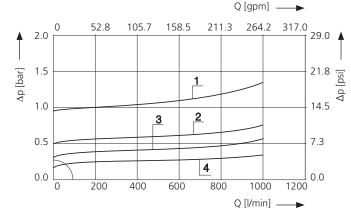




Pressure drop as a function of the **flow volume**Air IN

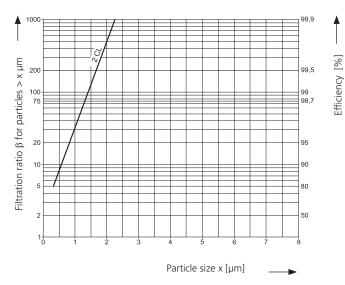
Pressure drop as a function of the **flow volume Air OUT** 





## Filter fineness curves in Selection Chart, column 4

Dx Filtration ratio  $\beta$  as a function of particle size x tested in a single pass test with ISO MTD



The abbreviation represents the following  $\beta\text{-values}$  resp. finenesses:

## 2CL

2 µm Composite
 99.5% efficiency for particles of size 2 µm tested in a single pass test with ISO MTD

For special applications, finenesses differing from these curves are also available by using special composed filter media.

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|                          | l/min            |              |                                         | cm²                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | bar   | bar                                         | mm                                        | mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | mm                                       |    | g      |                              |  |
| 1                        | 2                | 3            | 4                                       | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6          | 7     | 8                                           | 9                                         | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11                                       | 12 | 13     | 14                           |  |
| L1.0406-12 <sup>1</sup>  | 120              | <b>D1</b> /4 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M18 x 1.5  | -     | -                                           | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 1  | 25     | -                            |  |
| L1.0406-21               | 25               | <b>D1</b> /1 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M18 x 1.5  | -     | -                                           | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 1  | 25     | with labyrinth oil separator |  |
| L1.0406-73               | 25               | <b>D1</b> /1 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M18 x 1.5  | -     | -                                           | 75                                        | 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 55                                       | 1  | 30     | with labyrinth oil separator |  |
| L1.0406-76               | 25               | <b>D1</b> /1 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M18 x 1.5  | -     | -                                           | 80                                        | 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60                                       | 1  | 30     | with labyrinth oil separator |  |
| L1.0406-45               | 25               | <b>D1</b> /1 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M18 x 1.5  | -     | -                                           | 95                                        | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 45                                       | 1  | 35     | with labyrinth oil separator |  |
| L1.0406-69               | 25               | <b>D1</b> /1 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M18 x 1.5  | -     | -                                           | 100                                       | 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 80                                       | 1  | 35     | with labyrinth oil separator |  |
| L1.0406-56               | 25               | <b>D1</b> /1 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M18 x 1.5  | -     | -                                           | 130                                       | 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100                                      | 1  | 35     | with labyrinth oil separator |  |
| L1.0406-03 <sup>1</sup>  | 135              | <b>D1</b> /5 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -     | -                                           | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 1  | 25     | -                            |  |
| L1.0406-87               | 30               | <b>D1</b> /2 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -     | -                                           | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 1  | 25     | with labyrinth oil separator |  |
| L1.0406-60               | 30               | <b>D1</b> /2 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -     | -                                           | 85                                        | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 55                                       | 1  | 30     | with labyrinth oil separator |  |
| L1.0406-79               | 135              | <b>D1</b> /5 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -     | -                                           | 120                                       | 115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 90                                       | 1  | 35     | -                            |  |
| L1.0406-51               | 30               | <b>D1</b> /2 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -     | -                                           | 130                                       | 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                        | 1  | 35     | with labyrinth oil separator |  |
| L1.0406-59               | 30               | <b>D1</b> /2 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -     | -                                           | 130                                       | 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100                                      | 1  | 35     | with labyrinth oil separator |  |
| L1.0406-98               | 30               | <b>D1</b> /2 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -     | -                                           | 180                                       | 175                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 150                                      | 1  | 40     | with labyrinth oil separator |  |
| L1.0406-33               | 30               | <b>D1</b> /2 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -     | -                                           | 250                                       | 235                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 215                                      | 1  | 40     | with labyrinth oil separator |  |
| L1.0406-101              | 16               | <b>D1</b> /3 | 2CL                                     | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | M22 x 1.5  | -     | -                                           | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 1  | 25     | -                            |  |
| L1.0406-102 <sup>1</sup> | 16               | <b>D1</b> /3 | 2CL                                     | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | M22 x 1.5  | -     | -                                           | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 1  | 25     | with labyrinth oil separator |  |
|                          |                  |              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |       |                                             |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |    |        |                              |  |
| L1.0506-73               | 150 <sup>2</sup> | <b>D2</b> /3 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -0.03 | 0.20                                        | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 2  | 55     | -                            |  |
| L1.0506-91 <sup>1</sup>  | 150 <sup>2</sup> | <b>D2</b> /2 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -0.03 | 0.35                                        | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 2  | 55     | -                            |  |
| L1.0506-43               | 150 <sup>2</sup> | <b>D2</b> /1 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -0.03 | 1.60                                        | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 2  | 55     | -                            |  |
| L1.0506-185              | 10               | <b>D2</b> /4 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M22 x 1.5  | -     | -                                           | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 3  | 60     | with roll-over-protection    |  |
| L1.0506-195              | 15               | <b>D2</b> /4 | 2CL                                     | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rd42 x 5.0 | -     | -                                           | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 3  | 75     | with roll-over-protection    |  |
|                          |                  |              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |       |                                             |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |    |        |                              |  |
| L1.0706-03               | 250              | <b>D1</b> /7 | 2CL                                     | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M30 x 1.5  | -     | -                                           | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 1  | 50     | -                            |  |
| L1.0706-02 <sup>1</sup>  | 250              | <b>D1</b> /7 | 2CL                                     | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M42 x 2.0  | -     | -                                           | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 1  | 50     | -                            |  |
| L1.0706-07               | 160              | <b>D1</b> /6 | 2CL                                     | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rd42 x 5.0 | -     | -                                           | -                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                        | 1  | 60     | with labyrinth oil separator |  |

 $<sup>^{1}</sup>$  Preferred type, no minimum order quantity required  $^{2}$   $\Delta p \leq 0.1$  bar / 1.45 psi for air IN  $^{3}$  Double check valve

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| Soft.                   | To the line of the |               |     |                 |           |       |      |    |    |    |    |     |                              |  |  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|-----------------|-----------|-------|------|----|----|----|----|-----|------------------------------|--|--|
|                         | l/min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |     | cm <sup>2</sup> |           | bar   | bar  | mm | mm | mm |    | g   |                              |  |  |
| 1                       | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3             | 4   | 5               | 6         | 7     | 8    | 9  | 10 | 11 | 12 | 13  | 14                           |  |  |
| L1.0807-04              | 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>D1</b> /9  | 2CL | 203             | M30 x 1.5 | -     | -    | -  | -  | -  | 1  | 145 | with labyrinth oil separator |  |  |
| L1.0807-11 <sup>1</sup> | 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>D1</b> /9  | 2CL | 203             | M30 x 1.5 | -     | -    | -  | -  | -  | 1  | 140 | with flat gasket             |  |  |
| L1.0807-61 <sup>1</sup> | 550 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>D</b> 3/3  | 2CL | 203             | M30 x 1.5 | -0.03 | 0.35 | -  | -  | -  | 2  | 160 | -                            |  |  |
| L1.0807-07              | 650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>D1</b> /8  | 2CL | 203             | G¾        | -     | -    | -  | -  | -  | 1  | 145 | with labyrinth oil separator |  |  |
| L1.0807-21 <sup>1</sup> | 650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>D1</b> /8  | 2CL | 203             | G¾        | -     | -    | -  | -  | -  | 1  | 140 | -                            |  |  |
| L1.0807-81              | 550 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>D3</b> /4  | 2CL | 203             | G3/4      | -0.03 | 0.20 | -  | -  | -  | 2  | 160 | with flat gasket             |  |  |
| L1.0807-71 <sup>1</sup> | 550 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>D3</b> /3  | 2CL | 203             | G3/4      | -0.03 | 0.35 | -  | -  | -  | 2  | 160 | with flat gasket             |  |  |
| L1.0807-93              | 550 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>D3</b> /2  | 2CL | 203             | G3/4      | -0.03 | 0.50 | -  | -  | -  | 2  | 160 | -                            |  |  |
| L1.0807-63              | 550 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>D3</b> /1  | 2CL | 203             | G3/4      | -0.03 | 1.00 | -  | -  | -  | 2  | 160 | -                            |  |  |
| L1.0807-05              | 850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>D1</b> /10 | 2CL | 203             | M42 x 2.0 | -     | -    | -  | -  | -  | 1  | 145 | with labyrinth oil separator |  |  |
| L1.0807-31 <sup>1</sup> | 850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>D1</b> /10 | 2CL | 203             | M42 x 2.0 | -     | -    | -  | -  | -  | 1  | 140 | -                            |  |  |
| L1.0807-91              | 550 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>D3</b> /4  | 2CL | 203             | M42 x 2.0 | -0.03 | 0.20 | -  | -  | -  | 2  | 160 | -                            |  |  |
| L1.0807-51 <sup>1</sup> | 550 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>D3</b> /3  | 2CL | 203             | M42 x 2.0 | -0.03 | 0.35 | -  | -  | -  | 2  | 160 | -                            |  |  |
| L1.0807-06              | 850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>D1</b> /10 | 2CL | 203             | M60 x 2.0 | -     | -    | -  | -  | -  | 1  | 150 | with labyrinth oil separator |  |  |
| L1.0807-14              | 850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>D1</b> /10 | 2CL | 203             | M60 x 2.0 | -     | -    | -  | -  | -  | 1  | 140 | -                            |  |  |

<sup>&</sup>lt;sup>1</sup> Preferred type, no minimum order quantity required

<sup>&</sup>lt;sup>3</sup> Double check valve

|            | gpm  |              |     | inch <sup>2</sup> |                                          | psi   | psi       | inch | inch | inch |    | lbs  |                              |
|------------|------|--------------|-----|-------------------|------------------------------------------|-------|-----------|------|------|------|----|------|------------------------------|
| 1          | 2    | 3            | 4   | 5                 | 6                                        | 7     | 8         | 9    | 10   | 11   | 12 | 13   | 14                           |
| L1.0406-43 | 32   | <b>D1</b> /1 | 2CL | 5.4               | <sup>1</sup> / <sub>4</sub> -18 NPTF     | -     | -         | -    | -    | -    | 1  | 0.06 | -                            |
|            |      |              |     |                   |                                          |       |           |      |      |      |    |      |                              |
| L1.0506-47 | 40*  | <b>D2</b> /1 | 2CL | 5.4               | 1 <sup>1</sup> / <sub>16</sub> -12 UN-2A | -0.44 | 44 5.08 2 |      | 2    | 0.12 | -  |      |                              |
|            |      |              |     |                   |                                          |       |           |      |      |      |    |      |                              |
| L1.0706-04 | 66   | <b>D1</b> /2 | 2CL | 7.8               | 1 <sup>1</sup> / <sub>2</sub> -UNF-12 2A | -     | -         | -    | -    | -    | 1  | 0.11 | -                            |
|            |      |              |     |                   |                                          |       |           |      |      |      |    |      |                              |
| L1.0807-16 | 170  | <b>D1</b> /3 | 2CL | 31.5              | <sup>3</sup> / <sub>4</sub> -14 NPT      | -     | -         | -    | -    | -    | 1  | 0.31 | use gasket strips            |
| L1.0807-57 | 145* | <b>D3</b> /1 | 2CL | 31.5              | <sup>3</sup> / <sub>4</sub> -14 NPT      | -0.44 | 5.08      | -    | -    | -    | 2  | 0.35 | use gasket strips            |
| L1.0807-08 | 225  | <b>D1</b> /4 | 2CL | 31.5              | 1 <sup>5</sup> / <sub>8</sub> -12 UN-2A  | -     | -         | -    | -    | -    | 1  | 0.32 | with labyrinth oil separator |
| L1.0807-15 | 225  | <b>D1</b> /4 | 2CL | 31.5              | 1 <sup>5</sup> / <sub>8</sub> -12 UN-2A  | -     | -         | -    | -    | -    | 1  | 0.31 | -                            |
| L1.0807-56 | 145* | <b>D3</b> /1 | 2CL | 31.5              | 1 <sup>5</sup> / <sub>8</sub> -12 UN-2A  | -0.44 | 5.08      | -    | -    | -    | 2  | 0.35 | -                            |

<sup>\*</sup>  $\Delta p \leq 0.1$  bar / 1.45 psi for air IN

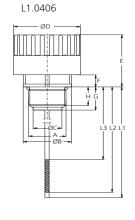
## Remarks:

- > The ventilating filters listed in this chart are standard filters. If modifications are required, we kindly ask for your request.
- > Ventilating filters in Vandalism Proof design see catalog sheet 50.20.
- > Ventilating filters with filling filters see catalog sheet 50.30.
- > Ventilating filters for water adsorption see catalog sheet 50.40.
- > For lockable ventilating filters for high volume flows, see catalog sheet 50.50.

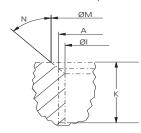
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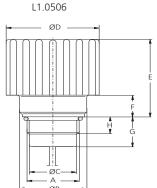
 $<sup>^2</sup>$   $\Delta p \le 0.1$  bar / 1.45 psi for air IN

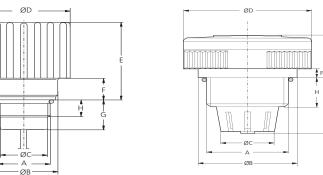
# **Dimensions**



## Recommended port sizes



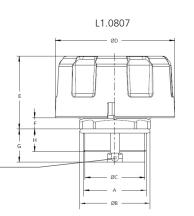




Spanner size: L1.0807



Version with thread M42 x 2 and  $1^{5}/_{8}$ -12 eye R2.5 / hole Ø 2 mm / 0.08 inch Fixing chain (length 17 cm / 6.69 inch) on request ARGO-HYTOS Part No. S0.0512.1302



L1.0706

## Measurements in mm

| Туре    | A <sup>1</sup>                       | В        | С            | D        | Е        | F            | G            | Н            | I         | К            | M          | N          |
|---------|--------------------------------------|----------|--------------|----------|----------|--------------|--------------|--------------|-----------|--------------|------------|------------|
| L1.0406 | M18 x 1.5, M22 x 1.5                 | 31.5     | 16           | 37       | 33.5     | 7.5          | 16.5         | 13.5         | -         | -            | as A       | 45°        |
| L1.0506 | M22 x 1.5<br>Rd42 x 5.0 <sup>2</sup> | 29<br>50 | 19.5<br>35.0 | 46<br>46 | 47<br>44 | 13.0<br>10.5 | 17.5<br>28.0 | 10.5<br>28.0 | -<br>35.5 | -<br>min. 28 | as A<br>45 | 45°<br>45° |
| L1.0706 | M30 x 1.5                            | 51       | 20.5         | 66       | 26.5     | 6            | 35           | 18           | -         | -            | as A       | 45°        |
|         | M42 x 2.0                            | 51       | 28           | 66       | 26.5     | 6            | 35           | 18           | -         | -            | as A       | 45°        |
|         | Rd42 x 5.0 <sup>2</sup>              | 51       | 28           | 66       | 26.5     | 6            | 35           | 28           | 35.5      | min. 28      | 45         | 45°        |
| L1.0807 | M30 x 1.5                            | AF 47    | 27           | 80       | 50       | 7            | 17           | 13.5         | -         | -            | as A       | 45°        |
|         | G¾                                   | AF 33    | 24           | 80       | 50       | 7            | 17           | 13.5         | -         | -            | as A       | 45°        |
|         | M42 x 2.0                            | AF 47    | 40           | 80       | 50       | 7            | 22           | 15           | -         | -            | 48         | 45°        |
|         | M60 x 2.0                            | AF 47    | 56.4         | 80       | 52       | 11           | 18           | 15           | -         | -            | as A       | 45°        |

<sup>&</sup>lt;sup>1</sup> The thread dimensions do not exactly conform to the DIN ISO standard thread (functioning with the DIN ISO standard thread is guaranteed)

# Measurements in inch

| Туре    | <b>A</b> <sup>3</sup>                             | В     | С    | D    | Е    | F    | G    | Н    | I    | K         | M    | N   |
|---------|---------------------------------------------------|-------|------|------|------|------|------|------|------|-----------|------|-----|
| L1.0406 | <sup>1</sup> / <sub>4</sub> -18 NPTF <sup>4</sup> | 1.24  | 0.63 | 1.46 | 1.32 | 0.30 | 0.65 | 0.53 | -    | -         | as A | 45° |
| L1.0506 | 1 <sup>1</sup> / <sub>16</sub> -12 UN-2A          | 1.42  | 0.95 | 1.81 | 1.52 | 0.32 | 0.98 | 0.70 | -    | -         | 1.08 | 45° |
|         | Rd42 x 5.0                                        | 1.97  | 1.38 | 1.77 | 1.73 | 0.41 | 1.10 | 1.10 | -    | -         | 1.77 | 45° |
| L1.0706 | 1 <sup>1</sup> / <sub>2</sub> -UNF-12 2A          | 2.01  | 0.81 | 2.60 | 1.04 | 0.24 | 1.34 | 0.71 | -    | -         | 1.5  | 45° |
|         | Rd42 x 5.0                                        | 2.01  | 1.10 | 2.60 | 1.04 | 0.24 | 1.38 | 1.10 | 1.40 | min. 1.10 | 1.77 | 45° |
| L1.0807 | 1⁵/ <sub>8</sub> -12 UN-2A                        | 47 mm | 1.50 | 3.15 | 1.97 | 0.28 | 0.87 | 0.59 | -    | -         | 1.71 | 45° |
|         | <sup>3</sup> / <sub>4</sub> -14 NPT <sup>4</sup>  | 33 mm | n.a. | 3.15 | 1.97 | 0.28 | -    | 0.87 | -    | -         | -    | 45° |

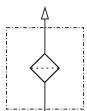
<sup>&</sup>lt;sup>3</sup> The thread dimensions do not exactly conform to the ANSI standard thread (functioning with the ANSI standard thread is guaranteed)

<sup>&</sup>lt;sup>2</sup> Round thread according to DIN 20400, not conforming to thread depth standards (functioning with the DIN standard thread is guaranteed)

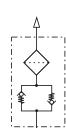
<sup>&</sup>lt;sup>4</sup> For NPT threads we recommend the use of gasket strips

#### **Symbols**

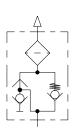
1



2



3



# Layout

#### **Sizes**

The determining factor for selecting the size is the maximum over / under pressure allowed in the container.

For versions without double check valves, the initial pressure drop with a clean air filter should not exceed 0.03 bar / 0.44 psi. For versions with double check valves, the initial pressure drop for air IN with a clean air filter should not exceed 0.1 bar / 1.45 psi.

#### Filter fineness

In the ideal case, the fineness of the ventilating filter matches the fineness of the system filter (see also CETOP RP 98 H). By the use of filter fineness 2 CL the ingress of dust into the tank is effectively reduced.

#### Mounting

The ventilating filter should be mounted in a low-dust area of the machine and not in depressions in which water can collect. For mobile use, the ventilating filter is to be mounted on the tank such that neither splashing oil from the inside nor spray water from the outside can reach the area of the ventilation opening.

#### **Double check valves**

By the use of double check valves, the exchange of air between the tank and the environment can considerably be reduced, whereby the ingress of dust is minimized and the lifetime of the ventilating filter is increased.

With the double check valve, a predefined level of pressure can be created in the tank in order to improve the suction conditions for the pumps.

The valve opening pressure required for the ventilating filter can be approximately determined with the ideal gas equation depending on the following system characteristics:

- > differential volume
- > volume of oil in the system
- volume of air in the tank
- operating temperatures

Calculation tool available.

## **Quality Assurance**

## Quality management according to DIN EN ISO 9001

To ensure constant quality in production and operation, ARGO-HYTOS filter elements undergo strict controls and tests according to the following ISO standards:

ISO 2941 Verification of collapse / burst pressure rating
 ISO 2942 Verification of fabrication integrity (Bubble Point Test)
 ISO 2943 Verification of material compatibility with fluids
 ISO 3968 Evaluation of pressure drop versus flow characteristics
 ISO 16889 Multi-Pass-Test (evaluation of filter fineness and dirt-holding capacity)
 ISO 23181 Determination of resistance to flow fatigue using high viscosity fluid

Various quality controls during the production process guarantee the leakfree function and solidity of our filters.

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