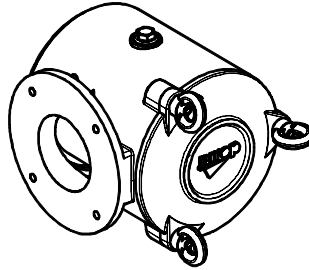
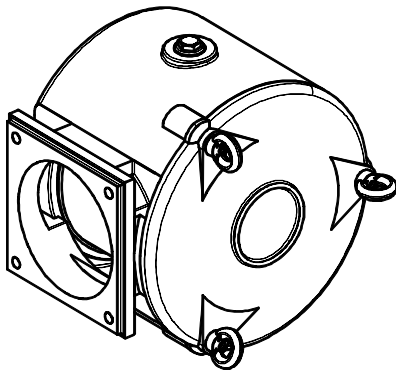


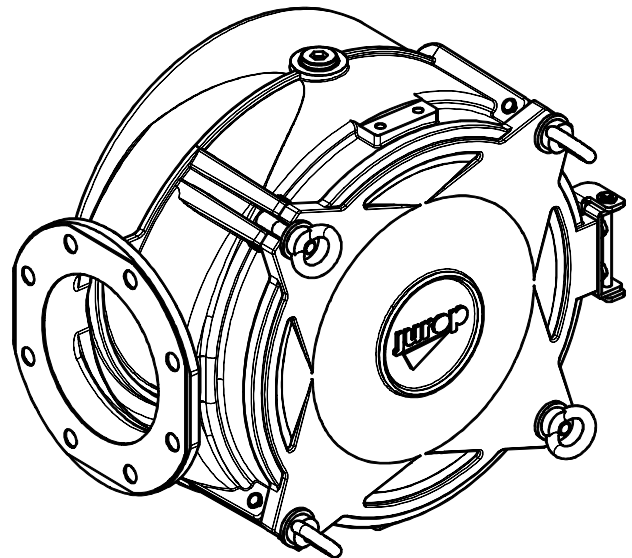
ORIGINAL INSTRUCTIONS



SMALL FILTER



MEDIUM FILTER



LARGE FILTER

TECHNICAL DATA SHEET

CODE 14450 029 00 - 14450 064 00

CODE 14450 032 00 - 14450 065 00

CODE 14450 068 00 - 14450 072 00

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

1. General warnings

This technical data sheet contains technical information concerning air-water filters and the main installation and maintenance instructions.

Complying with the instructions contained in this technical data sheet is crucial for the recognition of warranty against defective parts. Upon receiving the goods, ensure that they are intact and have not been accidentally damaged during transport. In the event parts of the accessory must be replaced, **use only genuine spare parts**.

2. Technical data

The air-water filters are designed to be installed in correspondence of the intake line (in the immediate vicinity of the suction device) of air decompressors or water pumps. The filter prevents foreign bodies (over a certain size) from entering the pumping system. The following figure shows a schematic diagram of an air-water filter, highlighting its preferential flow (operation in vacuum mode).

The air-water filters are available in three versions:

- **Small aluminium alloy air-water filter**, code 14450 029 00 - 14450 064 00 (*);
- **Medium aluminium alloy air-water filter**, code 14450 032 00 - 14450 065 00 (*);
- **Large aluminium alloy air filter**, code 14450 068 00 - 14450 072 00 (*).

(*) with PVT, HELIX, CT and CTH ATEX.

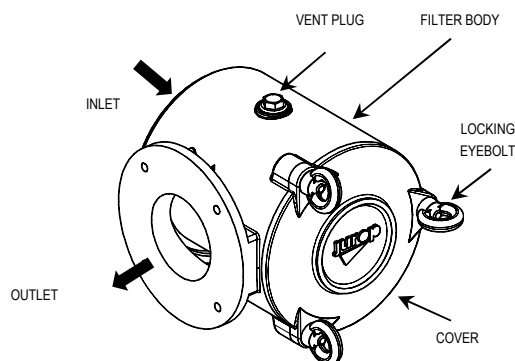
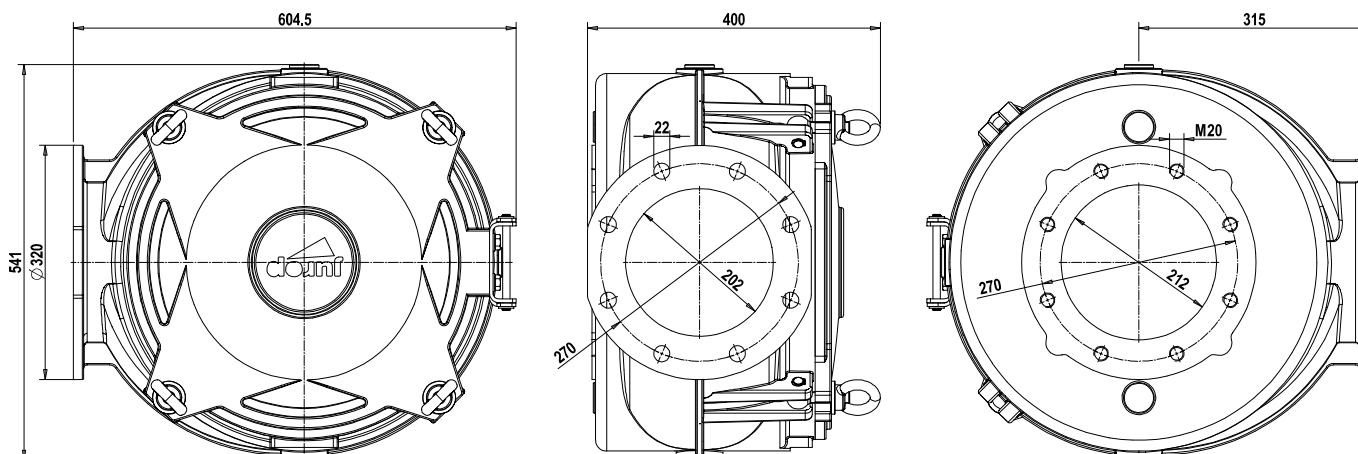
The filter body and cover are made of aluminium alloy (AlSi9Cu1Mg EN AC 46400) through mould casting. The filter cartridge is made of stainless steel 304 (small end medium) and stainless steel 316 (large).

The following table shows the main operating parameters concerning maximum operating pressures (relative), calculation pressure (relative), air and water flow rate, degree of filtration and weight.

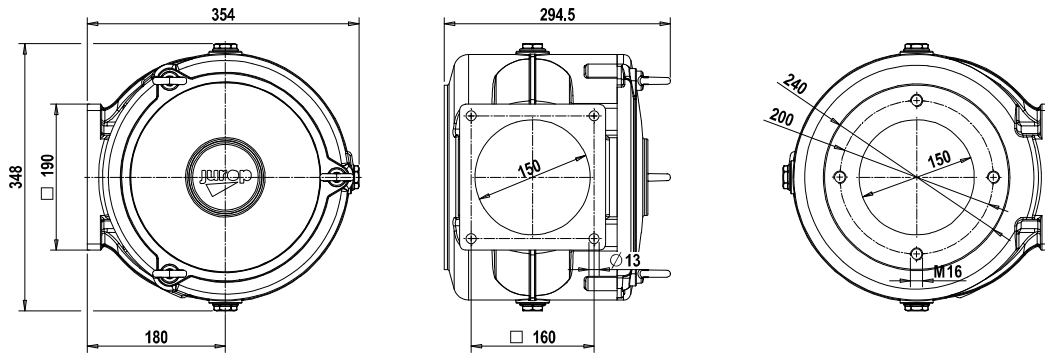
| OPERATING PARAMETERS | | | |
|---|---|------------------------------|------------------------|
| parameter | Small filter | Medium filter | Large filter |
| Maximum operating pressure | -1 / +0,5 bar | -1 / +0,5 bar | -1 / +0,5 bar |
| Calculation pressure | -1 / +4 bar | -1 / +4 bar | -1 / +4 bar |
| Maximum air flow | 1300 m ³ /h | 3600 m ³ /h | 6800 m ³ /h |
| Suitable for pumps with nominal flow up to | 150 l/min (H ₂ O) | 350 l/min (H ₂ O) | - |
| Degree of filtration | MESH 55, mesh hole ø 0.30 mm (at 300 µm) | | |
| Degree of filtration (PVT, HELIX, CT, CTH ATEX) | MESH 120, mesh hole ø 0.13 mm (at 125 µm) | | |
| Weight | 6.3 Kg | 14.1 Kg | 28 Kg |

Note: any presence of oil suspended in the air that flows through the filter reduces the maximum air flow rate.

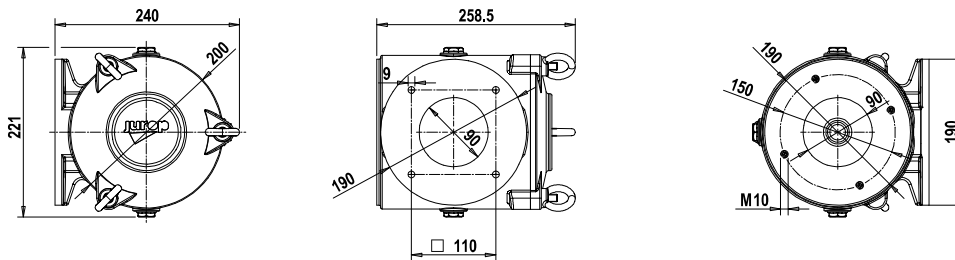
Overall dimensions large filter – code 14450 068 00 / code 14450 072 00



Overall dimensions medium filter – code 14450 032 00 / code 14450 065 00



Overall dimensions small filter – code 14450 029 00 / code 14450 064 00

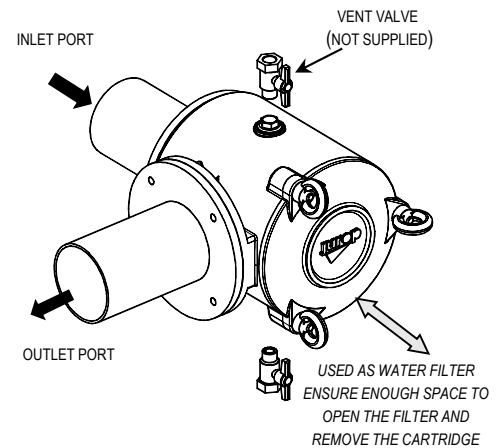


3. Installation

The air-water filter must be installed in correspondence of the intake line of the decompressor or of the water pump. We recommend installing it in the proximity of the unping device with **outlet duct placed on the side**: this prevents dirt from entering inside the pump when replacing/cleaning the filter.

We recommend connecting it to the pump using stainless steel pipes (to prevent wet and dry corrosion, especially when used as water filter). The cartridge cleaning (or replacement) frequency can vary according to its use; this is why we recommend **placing it in an easily accessible location**, to simplify maintenance. Moreover, the 1/2" drain for the smaller version, the 3/4" drain for the medium version, and 1" one for the larger version must also be easily accessible to drain the liquid inside the filter (used as air filter, lower valve) and vent the filter (used as water valve, upper valve).

Should any valves be installed, these must ensure the tightness of the device. During the winter season, the liquid contained in the filter must be drained during downtime.



4. Maintenance

Under ordinary use conditions, we recommend cleaning the filter on a weekly basis. In the event of heavy duty conditions, clean (or replace) the cartridge every time the line performance appears to be compromised.

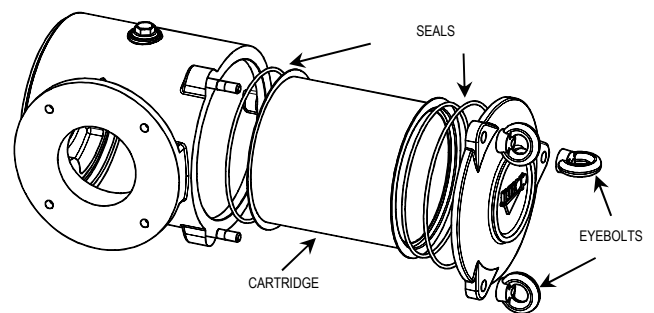
The filter must be cold cleaned.

For routine maintenance proceed as follows:

- Loosen the three eyebolts and remove/open the cover;
- Extract the filtering cartridge (pos. 1) and the relative seals (pos. 4 and the two gaskets pos. 5 for small and medium filter and pos. 8 and the two gaskets pos. 9 for large filter), clean with detergent and blow compressed air until clean;

- Reinstall the previously removed components taking care to place the seals correctly (pos. 4-5 and 8-9).

The following figure shows a schematic diagram of the maintenance procedure.



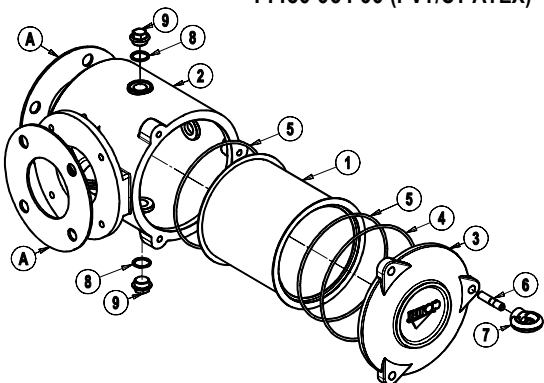
We recommend using non-flammable detergents with passivating and protective properties.

Recover the liquid detergent and dispose of it in compliance with the standards in force.

- Dry the cartridge and the entire filter well;

AIR-WATER SUCTION FILTERS

Small air/water filter 14450 029 00
 14450 064 00 (PVT/CT ATEX) *

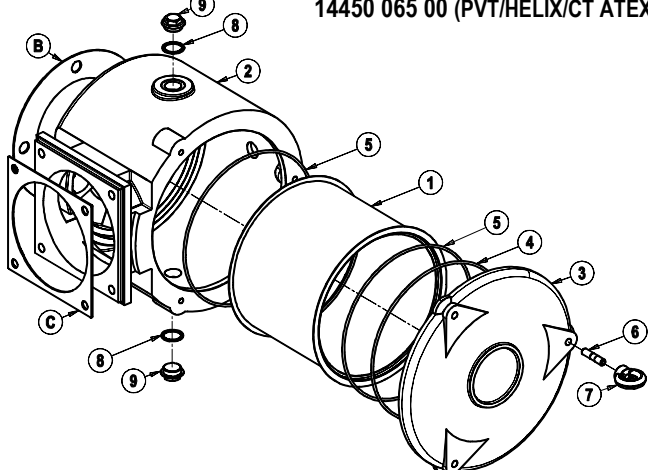


| Pos. | Code | Description | Q.ty |
|------|------------|------------------------------|------|
| 1 | 1545002900 | CARTRIDGE MESH55 | 1 |
| | 15450W7CB0 | CARTRIDGE MESH120 * | 1 |
| 2 | 1612100900 | FILTER HOUSING | 1 |
| 3 | 1640101300 | FILTER COVER | 1 |
| 4 | 4022200245 | O-RING 4675 | 1 |
| 5 | 4022200257 | O-RING 4625 | 2 |
| 6 | 4026171504 | GALV. STUD SCREW 8.8 M10X35 | 3 |
| 7 | 4026191101 | GALV. FEMALE EYELET M10 | 3 |
| 8 | 4026359003 | ALUMINIUM WASHER 21.5X26X1.5 | 3 |
| 9 | 4026904001 | GALV. BLIND COVER 1/2" | 3 |

Accessories available upon request :

| | | | |
|---|------------|-----------------------------|---|
| A | 16807ZSPA0 | ROUND PAPER GASKET DN80 PN6 | 2 |
| 6 | 16720007E0 | STUD SCREW M12-M10 | 3 |

Medium air-water filter 14450 032 00
 14450 065 00 (PVT/HELIX/CT ATEX) *

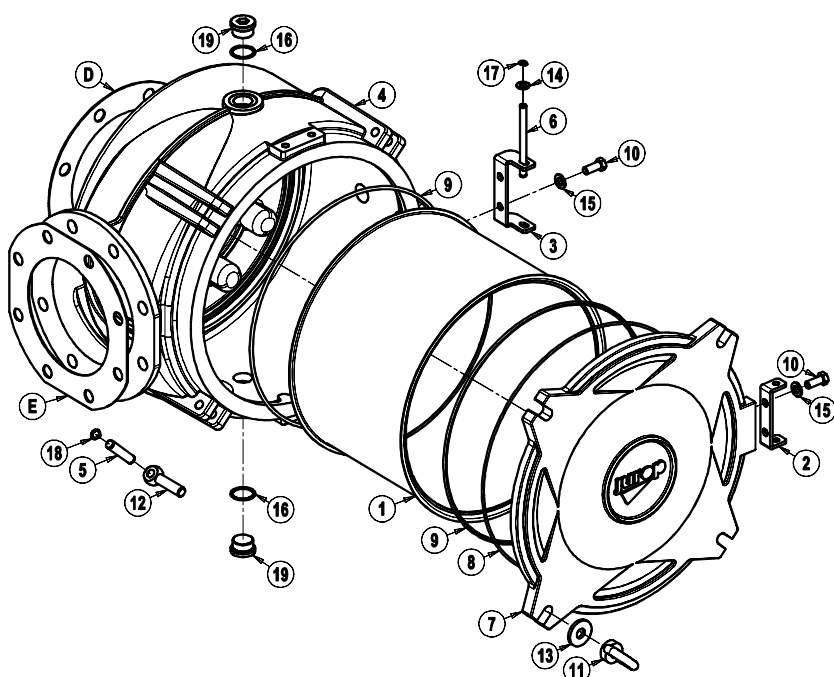


| Pos. | Code | Description | Q.ty |
|------|------------|-----------------------------|------|
| 1 | 1545002700 | CARTRIDGE MESH55 | 1 |
| | 15450W7DB0 | CARTRIDGE MESH120 * | 1 |
| 2 | 1612101000 | FILTER HOUSING | 1 |
| 3 | 1640100500 | FILTER COVER | 1 |
| 4 | 4022200243 | O-RING 4975 | 1 |
| 5 | 4022200262 | O-RING 4950 | 2 |
| 6 | 4026171506 | GALV. STUD SCREW 8.8 M10X45 | 3 |
| 7 | 4026191101 | GALV. FEMALE EYELET M10 | 3 |
| 8 | 4026359000 | ALUMINIUM WASHER 32X26X1.5 | 3 |
| 9 | 4026904002 | GALV. BLIND COVER 3/4" | 3 |

Accessories available upon request :

| | | | |
|---|------------|--------------------|---|
| B | 1680609500 | NBR ROUND SEAL | 1 |
| C | 1680609600 | SQUARE SEAL | 1 |
| 6 | 16720007E0 | STUD SCREW M12-M10 | 3 |

Large air filter 14450 068 00
 14450 072 00 (PVT/HELIX/CT/CTH ATEX) *



| Pos. | Code | Description | Q.ty |
|------|------------|---------------------------|------|
| 1 | 15450EDGB0 | CARTRIDGE MESH55 | 1 |
| | 15450W7EB0 | CARTRIDGE MESH120 * | 1 |
| 2 | 16120Z8LB0 | HINGE 1 FILTER D400 | 1 |
| 3 | 16120Z8MB0 | HINGE 2 FILTER D400 | 1 |
| 4 | 1612102100 | FILTER HOUSING D400 | 1 |
| 5 | 16220Z8JB0 | PIN 1 FILTER D400 | 4 |
| 6 | 16220Z8KB0 | PIN 2 FILTER D400 | 1 |
| 7 | 1640102800 | FILTER COVER D400 | 1 |
| 8 | 4022200611 | O-RING 41700 | 1 |
| 9 | 4022200612 | O-RING 61600 | 2 |
| 10 | 4026103002 | SCREW TE 8,8 M12X30 ZINC. | 4 |
| 11 | 4026191103 | GALV. FEMALE EYELET M16 | 4 |
| 12 | 4026191210 | GALV.EYELET M16X70 | 4 |
| 13 | 4026353805 | WASHER D.17X45 SP.5 | 4 |
| 14 | 4026357006 | GALV. FLAT WASHER M10 | 2 |
| 15 | 4026357007 | GALV. FLAT WASHER M12 | 4 |
| 16 | 4026359001 | WASHER 40X33,5X1,5 AL. | 3 |
| 17 | 4026510108 | SEEGER RING E 10 | 2 |
| 18 | 4026510112 | SEEGER RING E 14 | 8 |
| 19 | 4026701605 | GALV. BLIND COVER 1" | 3 |

Accessories available upon request :

| | | | |
|---|------------|-----------------------|---|
| D | 16807026C0 | GASKET DN175 PN10 | 1 |
| E | 1680711800 | GASKET DN175 PN10 SM. | 1 |