

# AMIAD Water Systems Ltd.

## 3" TAF-750 FILTERS

|                    |                      |
|--------------------|----------------------|
| Serial number:     | <input type="text"/> |
| Order number:      | <input type="text"/> |
| Catalog number:    | <input type="text"/> |
| Filtration degree: | <input type="text"/> |
| Tested by:         | <input type="text"/> |

## Installation, Operation and Maintenance Instructions

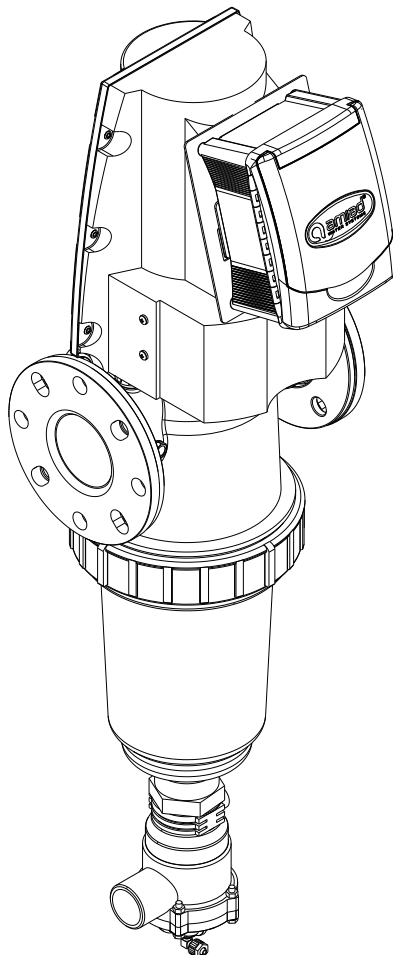
TAF Filters On-Line orders [www.irrigationglobal.com](http://www.irrigationglobal.com)

Ref. 910101-000116 /12.2018

## AMIAD Water Systems Ltd.

### 3" TAF-750 FILTERS

#### Installation, Operation and Maintenance Instructions



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With any inquiry please quote Filter Serial Number, located on the filter housing.

## TECHNICAL SPECIFICATIONS

### General

|                          |                                         |                                                                                       |
|--------------------------|-----------------------------------------|---------------------------------------------------------------------------------------|
|                          | 3"                                      |                                                                                       |
| Maximum flow rate        | 50m <sup>3</sup> /h; 220USgpm           | Consult manufacturer for optimum flow depending on filtration degree & water quality. |
| Min. working pressure    | 1.5 bar; 22psi                          | Or lower if pressure is increased for flushing.                                       |
| Max. working pressure    | 8 bar; 120 psi                          |                                                                                       |
| Filter area              | 700cm <sup>2</sup> ; 110in <sup>2</sup> |                                                                                       |
| Inlet/Outlet diameter    | 80mm; 3"                                | Threads: BSP or NPT<br>Flanges: Standard per request                                  |
| Max. working temperature | 60°C; 140°F                             |                                                                                       |
| Weight                   | 13.0kg; 28.7lb                          |                                                                                       |

### Flushing data

|                           |                                                                            |                    |
|---------------------------|----------------------------------------------------------------------------|--------------------|
| Exhaust valve             | 40mm; 1 1/2"                                                               |                    |
| Flushing cycle time       | 16 seconds                                                                 |                    |
| Wasted water per cycle    | 25 liter; 6.6USgallon                                                      |                    |
| Minimum flow for flushing | 5.7m <sup>3</sup> /h; 25USgpm                                              | at 1.5 bar; 22 psi |
| Flushing criteria         | Differential pressure of 0.5 bar; 7psi, time interval and manual operation |                    |

### Control and electricity

|                         |                            |                                        |
|-------------------------|----------------------------|----------------------------------------|
| Rated operation voltage | 110/220 VAC - Single phase |                                        |
| Electric motor          | 15 Watt                    | 50 / 60 Hz, Gear output 48 / 58 R.P.M. |
| Current consumption     | 0.18 A                     |                                        |
| Control voltage         | 24 VAC                     |                                        |

### Construction materials

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| Filter housing and lid | NYLON                                                        |
| Screens                | St.St. 316 Weave Wire screen with Polypropylene construction |
| Cleaning mechanism     | PP, Delrin                                                   |
| Exhaust valve          | Plastic, Natural rubber                                      |
| Seals                  | NBR                                                          |
| Control                | Brass, Stainless steel, PE, PP                               |

### Standard filtration degrees

|        | Stainless steel screen |     |     |      |     |      |      |      |      |
|--------|------------------------|-----|-----|------|-----|------|------|------|------|
| micron | 500                    | 300 | 200 | 130  | 100 | 80   | 50   | 20   | 10   |
| mm     | 0.5                    | 0.3 | 0.2 | 0.13 | 0.1 | 0.08 | 0.05 | 0.02 | 0.01 |

## SAFETY INSTRUCTIONS

### General

1. Prior to installation or any treatment given to the filter, read carefully the installation and operation instructions.
2. While maintaining the filter all standard safety instructions should be observed in order to avoid danger to the workers, the public or to property in the vicinity.
3. Please note, the filters enter into a flushing mode automatically, without prior warning.
4. No changes or modification to the equipment are permitted without a written notification given by the manufacturer or by its representative, on the manufacturer behalf.

### Installation

1. Install the filter according to the installation instructions detailed in this manual.
2. Make sure to leave enough clearance so as to enable easy access for future treatments and safe maintenance operations.
3. Electric wiring should be performed by an authorized electrician only; using standardized and approved components.
4. Install main power disconnect cut-off switch close to the control panel.
5. If the control panel is installed in a location where there is no eye contact with the filter, a power disconnect cut-off switch should be installed near each filter unit.
6. Install the filter so as to avoid water splashing directly on the electrical components or on the control panel.
7. Additional safety devices should be installed on hot water applications to avoid skin burn danger.

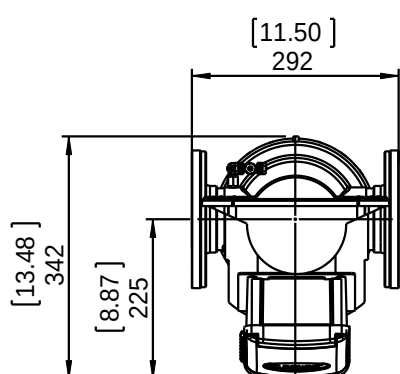
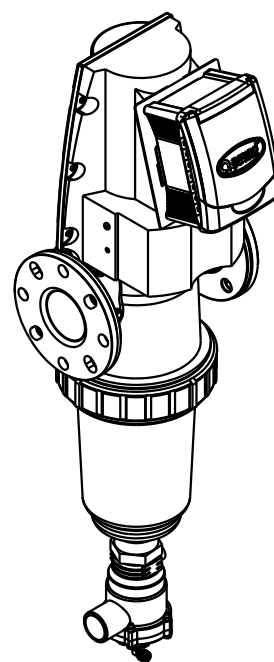
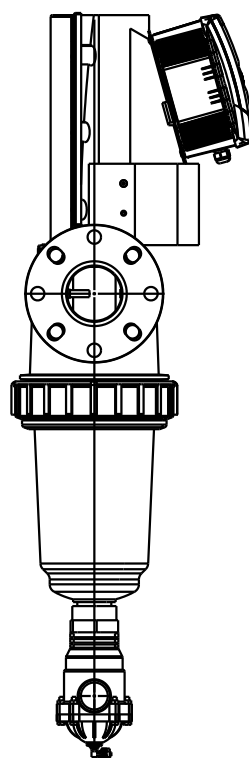
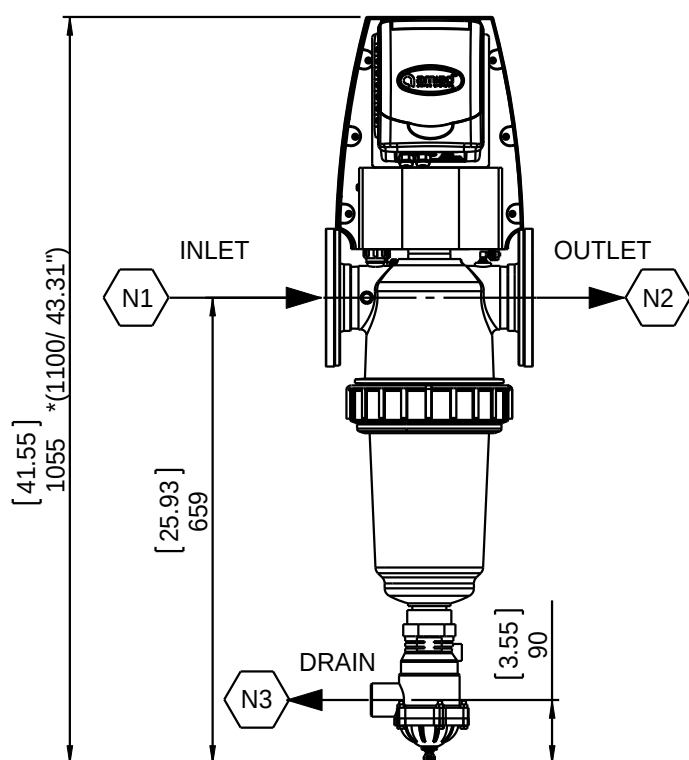
### Operation, Control and Maintenance

1. Disconnect the filter from power supply before maintenance or treatment.
2. Loosening or unscrewing bolts should be done only after the pressure in the filter had been released.
3. Avoid splashing and water leaking so as to minimize slipping, electrocution or damage to the equipment caused by moisture.
4. Always open and close valves slowly and gradually.
5. Remove grease and fat material residues in order to avoid slipping.
6. After treatment has been completed, re-assemble the protection covers of the drive mechanism.
7. Manual cleaning of filter element using high water pressure or steam should be performed in accordance with the cleaning system instructions and without endangering the operator or his vicinity.
8. Manual cleaning of filter element using acid or other chemical agents should be performed in accordance with the relevant material safety instructions and without endangering the operator or his vicinity.

### Use of Lifting Equipment

1. While using lifting equipment, make sure that the filter or the lifted part is chained securely and in a safe manner.
2. Do not leave lifted equipment hanging if not necessary. Avoid working below lifted equipment.
3. Wear a safety helmet while using lifting equipment.

## DIMENSIONAL DRAWINGS



\* Approx. Required Height For Maintenance

## DESCRIPTION OF FILTER OPERATION

The "TAF" is a sophisticated yet easy-to-operate automatic electric filter, with a self-cleaning mechanism driven by an electric motor. The filter is designed to work with various types of screens in filtration degrees from 500 to 10 micron.

### Filtering process

The water enters through the inlet pipe into the screen area and flows through the screen from inside out. The "filtration cake" is accumulated on the screen surface and causes head loss to develop.

### Self-cleaning process

The TAF will start the self-cleaning process either when the pressure differential across the screen reaches a pre-set value or after a predetermined lapse of time.

The fine screen filter element is cleaned by the suction scanner whose nozzles spiral across the inner surface of the screen. The filtration cake is "vacuumed" from the screen and expelled out the exhaust valve.

The scanner's spiral motion is achieved by a drive unit which rotates a bi-directional continuous worm shaft.

The exhaust valve is activated for the duration of the cleaning cycle by a 3-way solenoid. Filtered water continues to flow downstream during the flush cycle, which takes approximately 16 seconds.

## INSTALLATION

### Design recommendations

1. The filter requires 5.7m<sup>3</sup>/h (25USgpm) for flushing, in addition to the working flow rate at a minimum pressure of 1.5 bar (22 psi). In the event that the system cannot provide the flushing flow in addition to the working flow, at the minimum required pressure, a hydraulic valve should be installed downstream of the filter. This valve will be closed during the flushing process in order to ensure sufficient cleaning.
2. Do not allow water to flow in opposite direction. In case that there is a chance of back flow a non-return check valve should be installed downstream of the filter.

### Installation instructions

1. Install a manual valve upstream of the filter in order to enable convenient maintenance.
2. The diameter of the inlet pipe must not be smaller than that of the filter inlet.
3. Install the filter in a way that enables convenient approach and enough space to dismantle the filter for maintenance purposes.
4. It is recommended to install the filter horizontally, especially if the water contains sand.
5. Ensure the direction of flow is according to the arrows marked on the filter housing.
6. The exhaust valve can be facing downwards or sideways. Connect a minimum of 1.5" (40 mm) pipe to the exhaust valve using a detachable connector or a flexible pipe. The exhaust pipe should be designed so that it creates minimal resistance to the flow of 5.7m<sup>3</sup>/h (25USgpm).
7. If the system is designed to operate with a working pressure higher than 6 bar (85 psi), it is recommended that a manual valve will be installed on the exhaust pipe, in order to enable regulation of the flushing flow rate.



## START- UP AND FIRST OPERATION

1. Set the controller to 16 seconds flushing time and 2-4 hour intervals.
2. Operate a "dry" flushing cycle. Verify proper operation of the controller, the motor and the solenoid valve.
3. Open the inlet valve to the filter, while the outlet valve remains closed or with an open by-pass valve (This will keep the flow in the filter at a minimum), and operate a flushing cycle by pressing the push-button on the controller panel.
4. Make sure the exhaust valve opens and all stages of the flushing cycle are carried out. Attend to leakage, if any. If necessary, change the time setting to ensure complete up and down motion of the suction scanner.
5. Gradually open the outlet valve and/or close the by-pass valve. Operate the filter at the designed hydraulic conditions.

## MAINTENANCE

**NOTE:** Depressurize the filter before maintenance (Close inlet and then outlet valves).

### Checking the filter

1. Unscrew the filter cover.
2. Extract the screen and clean if necessary. Cleaning is performed by hosing the screen from outside-in, and/or with a nylon brush.
3. Check the Screen O-ring and apply grease, if necessary.
4. Replace the screen.
5. Return the cover and twist to tighten.

### Checking the PD switch connectors

Check the L-Connectors to the PD Switch to make sure that there are no obstructions.

### Winterization

Filter operations should be suspended in climates where the filter is exposed to freezing temperatures.

1. Check that the outlet valve is closed and perform two manual rinses.
2. Close the inlet valve to the filter and release the pressure.
3. Remove all drain lines from the valves, drain, and reconnect.

### Leaks

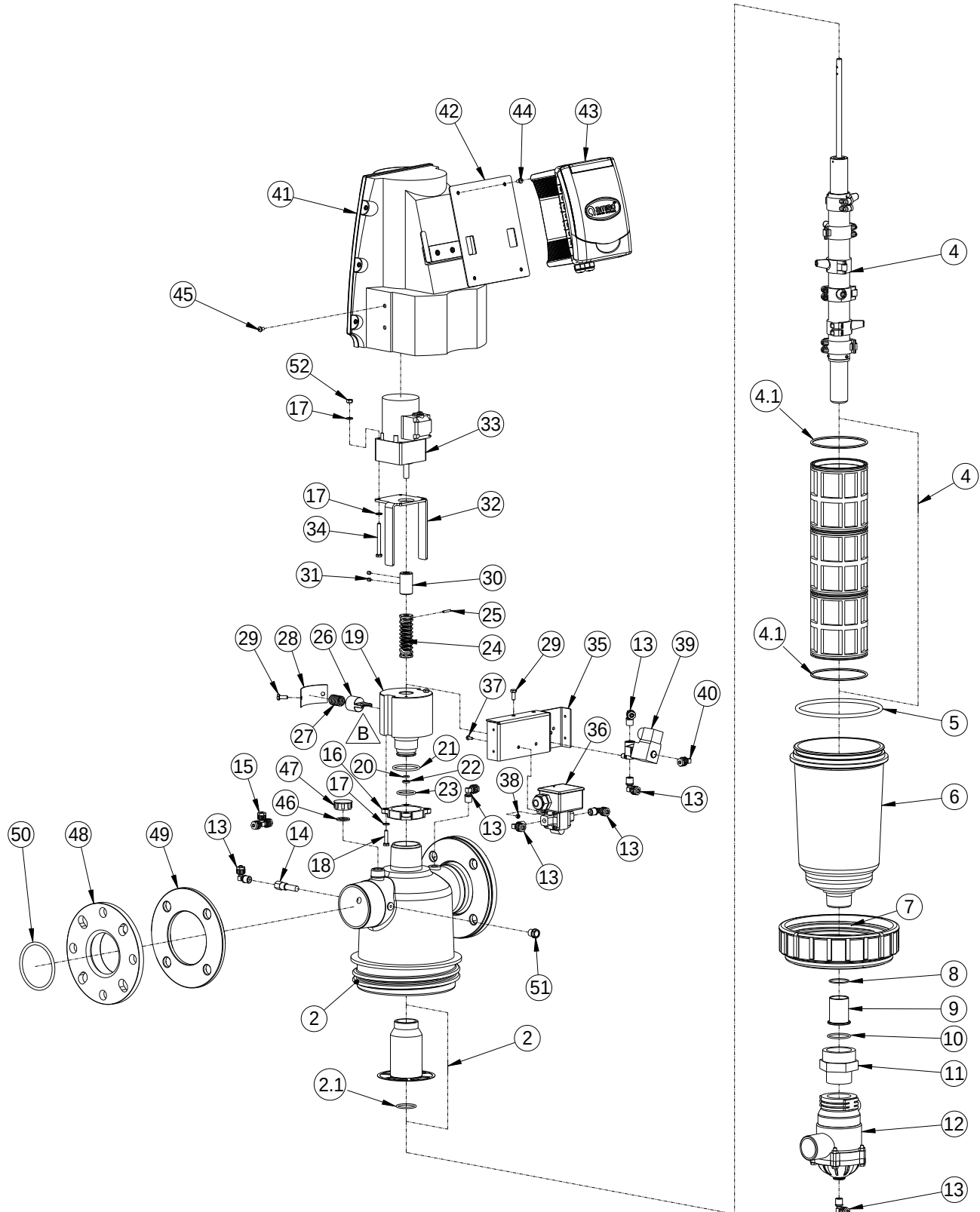
In case of a leak contact Amiad technical support

## PARTS SCHEDULE - 3" TAF-750 FILTER Section 1

| NO. | Cat. Num.     | Description                                  | QTY | Material  |
|-----|---------------|----------------------------------------------|-----|-----------|
| 1   | 710103-001269 | Housing 3" TAF-750 BSPT Machined             | 1   | NYLON     |
| 1   | 710103-001271 | Housing 3" TAF-750 NPT Machined              | 1   | NYLON     |
| 2   | 700190-001924 | Pressure Balancing Assembly 3" TAF-750       | 1   | Various   |
| 2.1 | 770102-000092 | O-Ring Seal P2-125 Scanner Bearing NBR"S"    | 1   | NBR       |
| 2   | 710103-001271 | Housing 3" TAF-750 NPT Machined              | 1   | NYLON     |
| 3   | SEE TABLE     | Screen TAF-750                               | 1   | Various   |
| 4.1 | 770102-000130 | O-Ring Seal P2-242 (2"/3 Screen) NBR"S"      | 2   | NBR       |
| 4   | 700190-001926 | Suction Scanner 3" TAF-750                   | 1   | Various   |
| 5   | 770102-000169 | O-Ring Seal P2-437                           | 1   | NBR       |
| 6   | 710103-000562 | 2"T-S,3"T Lid PA BSPT                        | 1   | NYLON     |
| 7   | 710103-000544 | Nylon Tightening nut Black (T filters)       | 1   | RPA       |
| 8   | 770102-000069 | O-Ring Rubber Seal P2-028                    | 1   | NBR       |
| 9   | 710103-000704 | Long Bearing For Suction Scanner 2"T         | 1   | Delrin    |
| 10  | 770102-000096 | O-Ring Seal P2-129 NBR                       | 1   | NBR       |
| 11  | 780101-000955 | Connector 11/2"FX11/2"M                      | 1   | ST.37-2   |
| 12  | 730103-000444 | 1-1/2" Exhaust Valve                         | 1   | Various   |
| 13  | 720501-000198 | L-Connector 1/4"X8MM Red/Black               | 7   | NYLON     |
| 14  | 730110-000034 | Finger Filter                                | 1   | Various   |
| 15  | 720501-000228 | T-Connector 8MMX8MMX8MM Black-Red            | 1   | PVC       |
| 16  | 710101-000765 | Motor Connecting Flange 2" TAF NPT           | 1   | NYLON     |
| 16  | 710101-000760 | Flange Adaptor (HYDROTAF)                    | 1   | NYLON     |
| 17  | 760103-000094 | Flat Washer M6 DIN125S/ST316                 | 12  | SST316    |
| 18  | 760101-000445 | Hex Bolt Full Thread M6X25 S/ST316 DIN933    | 4   | SST316L   |
| 19  | 710103-001207 | Endless Worm Shaft Housing TAF               | 1   | Delrin    |
| 20  | 770101-000036 | MM O-RING SEAL ID10MM TH2MM NBR 70 SHORE     | 1   | NBR       |
| 21  | 770101-000051 | O-Ring Seal 3.5X45 TAF Motor Housing NBR     | 1   | NBR       |
| 22  | 710101-000767 | Seal U-Cup (Scanner Shaft) Hydro-TAF         | 1   | NBR       |
| 23  | 770101-000049 | O-Ring Seal 30X3 NBR "S"                     | 1   | NBR       |
| 24  | 710103-001247 | Reversible Worm Shaft TAF                    | 1   | Acetal    |
| 25  | 760105-000029 | Slotted Pin 3x20 DIN1481 S/ST 304            | 1   | S/ST 304  |
| 26  | 710103-001209 | Endless Worm Shaft Tooth S/ST303             | 1   | S/ST 303  |
| 27  | 760107-000065 | Spring Tooth S/ST302                         | 1   | S/ST 302  |
| 28  | 710103-001210 | Tooth Cover TAF                              | 1   | S/ST 316L |
| 29  | 760101-000443 | Hex Bolt Full Thread M6X15 S/ST304 DIN933    | 4   | ST372     |
| 30  | 710103-001216 | Motor Shaft Coupler                          | 1   | S/ST 316L |
| 31  | 760101-000544 | Socket Set Screw M6X6 SST304 DIN916          | 2   | SST304    |
| 32  | 710103-001217 | Drive Unit Basis TAF                         | 1   | S/ST 316L |
| 33  | 720201-000033 | Drive Unit TAF-750 220V AC 1/25              | 1   | Various   |
| 32  | 720201-000032 | Drive Unit TAF-750 110V AC 60HZ 0.015KW 1/25 | 1   | Various   |
| 34  | 760101-000607 | Hex Bolt Full Thread M6X60 S/ST316 DIN933    | 4   | SST316L   |
| 35  | 710103-001212 | Instrumentation Bracket                      | 1   | S/ST 316L |
| 36  | 720104-000029 | PD Switch UE 24-011                          | 1   | Various   |
| 37  | 760101-000529 | Phillips Pan Machine Screw M4X10 316         | 2   | SST316L   |
| 38  | 760102-000083 | Hex Nut M4 S/ST304 DIN934                    | 2   | SST304    |
| 39  | 720103-000187 | 3/2 Nc Solenoid Valve (Type B) 24VAC 50Hz    | 1   | Various   |
| 39  | 720103-000189 | 3/2 NC Solenoid Valve 60HZ NC 24VAC          | 1   | Various   |
| 40  | 720501-000209 | L-Connector 1/8"MX6MM Black-Red              | 1   | PP        |

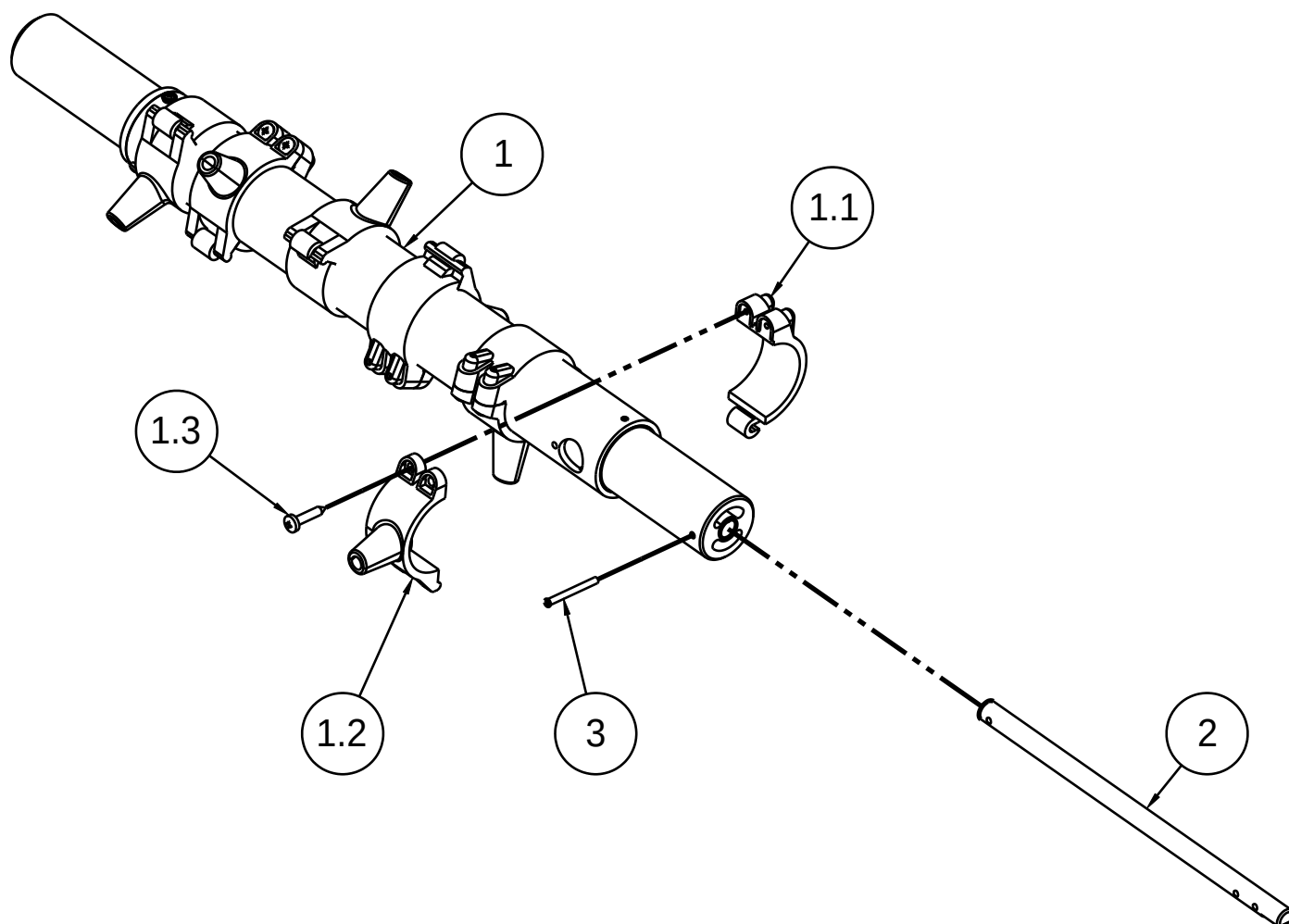
| NO. | Cat. Num.     | Description                                 | QTY | Material  |
|-----|---------------|---------------------------------------------|-----|-----------|
| 41  | 710103-001204 | Drive Unit Cover TAF                        | 1   | Various   |
| 42  | 710103-004837 | Sling For AMIAD Controller AC-DC6_GL-TAF    | 1   | S/ST 304L |
| 43  | 720101-000475 | Electronic Control DC-6V 6-Out 1-In AMC-6   | 1   | Various   |
| 43  | 720101-000476 | Electronic control 110VAC 6-Out 1-In Galcon | 1   | Various   |
| 44  | 760101-000713 | Phillips Pan Machine Screw M5X8 S/ST316     | 4   | SST316L   |
| 45  | 760101-000530 | Phillips Pan Machine Screw M5X8 304         | 4   | SST304    |
| 46  | 770103-000025 | Cap Seal 3/4" NBR                           | 1   | NBR       |
| 47  | 710101-000674 | 3/4" Cap Black                              | 1   | PP        |
| 48  | 710103-000568 | Plastic Flange 3" NPT                       | 2   | PP        |
| 48  | 710103-000566 | Plastic Flange 3" BSPT                      | 2   | PP        |
| 49  | 710105-000041 | Flange Support 3" ASA150                    | 2   | SAE 1020  |
| 50  | 770102-000150 | O-Ring Seal P2-339 (3" Flange)NBR "S"       | 2   | NBR       |
| 51  | 720501-000221 | Plug 1/4"M Black                            | 1   | PA66      |
| 52  | 760102-000085 | Hex Nut M6 S/ST316 DIN934                   | 4   | SST316L   |

## PARTS DRAWING - 3" TAF-750 FILTER Section 1

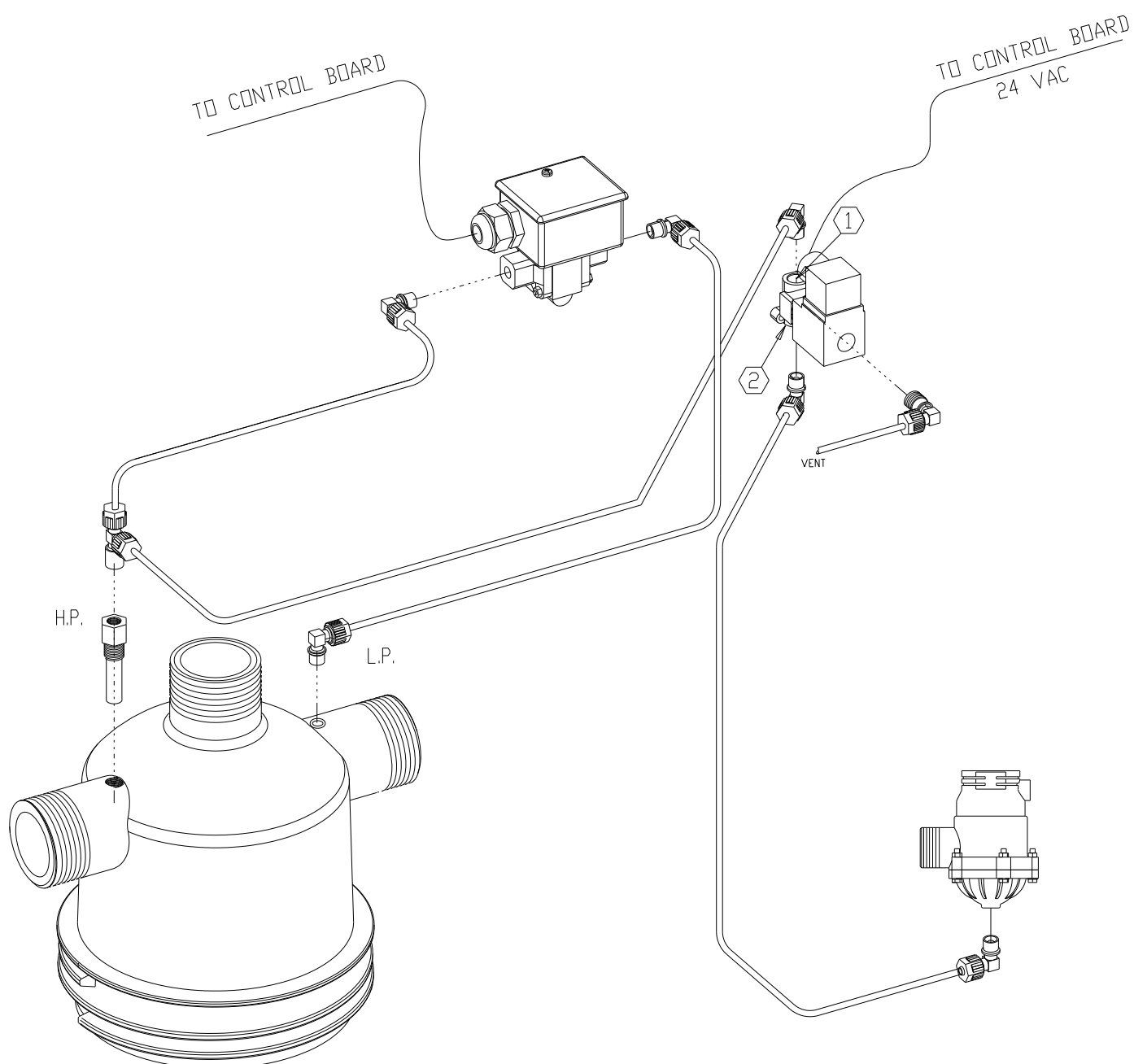


## PARTS SCHEDULE & DRAWING 3" TAF-750 FILTER Section 2

| NO. | Cat. Num.       | Description                            | QTY | Material  |
|-----|-----------------|----------------------------------------|-----|-----------|
| 1   | 700190-001935   | Suction Scanner W/O Shaft (2"S/3" TAF) | 1   | Various   |
| 1.1 | 710101-000751-1 | 2"-4" Suction Scanner Nozzle No.1      | 6   | PP        |
| 1.2 | 710101-000751-2 | 2"-4" Suction Scanner Nozzle No.2      | 6   | PP        |
| 1.3 | 760101-000537   | Phillips Pan Tap Screw PT4x20 S/ST316  | 12  | S/ST 316  |
| 2   | 710103-001275   | Suction Scanner Shaft 3" TAF           | 1   | S/ST 316L |
| 3   | 760105-000033   | Slotted Pin 3x30 DIN1481 S/ST 304      | 1   | S/ST 304  |



## CONTROL DRAWING



## Amiad Limited Warranty

This certificate applies to Amiad Products purchased by You from Amiad or an Amiad authorized Distributor ("**Distributor**"). This limited warranty extends only to the original purchaser, and is not transferable to anyone who subsequently purchases, leases, or otherwise obtains the Product from the original purchaser.

1. Amiad hereby warrants that the Products are and will be free from defects in material and workmanship under normal use and service. Amiad warrants that it will correct manufacturing defects in the Products, in accordance with the conditions set out in this warranty.
2. This warranty is enforceable for a period of 12 months after the date Bill of Lading or equivalent (the "**Warranty Period**").
3. In the event that during the Warranty Period the Distributor discovers a defect in material and/or workmanship in any Product or part (the "**Defective Product**"), it shall submit a written complaint to Amiad using Amiad's standard customer complaint form. For the receipt of the customer complaint form, the submission of the complaint or any questions please contact your customer service representative.
4. Upon written demand by Amiad the Distributor shall return the Defective Products – or a sample thereof – to Amiad, at Amiad's cost. If the customer ships any such Product, Amiad suggests the customer package it securely and insure it for value, as Amiad assumes no liability for any loss or damage occurring during shipment. Provided however that in the event Amiad determines that the warranty does not apply to such Product, Distributor shall promptly reimburse Amiad for such cost (including freight and customs). Any returned Product or part must be accompanied by the warranty certificate and the purchase invoice. It is clarified that the Distributor may not return the Defective Product unless such return was coordinate and approved by Amiad in advance.
5. Amiad's obligation under this warranty shall be limited to, at its option, the repair or exchange, free of charge, of the Product or any part which may prove defective under normal use and service during the Warranty Period. The provision of a repaired or replacement Product during the Warranty Period will result in an extension of the Warranty Period by an additional period of 12 months, provided that the total accumulated Warranty Period shall in any event be no more than 18 months from the original Bill of Lading.
6. This warranty is valid on the condition that the Products are installed according to Amiad's instructions as expressed in Amiad's instruction manuals and according to the technical limitations as stipulated in Amiad's literature or as stated by a representative of Amiad.
7. This warranty will not apply to damaged or defective Products resulting from or related to:
  - (i) Fire, flood, power surges or failures or any other catastrophe/and or unforeseen occurrence, such as but not limited to those for which the customers are customarily insured;
  - (ii) Fault, abuse or negligence of the customer;
  - (iii) Customer's responsibilities, including the failure of the intake water to meet the agreed standards, as set forth in a written document, approved by Amiad or improper storage.
  - (iv) Improper or unauthorized use of the Product or related parts by the customer, including the customer's failure to operate the Product in conformity with the recommendations and instructions of Amiad, as set forth in Amiad's manuals and other written materials, the operation of the Product other than by a trained and qualified operator, or improper installation of the Product by a third party not authorized by Amiad;
  - (v) Performance by the customer of maintenance and other services other than by a trained and qualified advanced operator, or other than in conformity with the recommendations and instructions of Amiad, or other than in accordance with procedures defined in the literature supplied for Products;
  - (vi) Any alteration, modification foreign attachment to or repair of the Products, other than by Amiad or its authorized technical representatives.
8. In no event shall Amiad be liable to the customer or any third party for any damages, including indirect, special, exemplary, punitive or consequential damages, or lost profits arising out of or in connection with this warranty, or arising out of or in connection with the Product's performance or failure to perform, even if it has been advised of the possibility of such damages.
9. Amiad will be excused for failure to perform or for delay in performance hereunder if such failure or delay is due to causes beyond its reasonable control or force majeure preventing or hindering performance.
10. The limited warranty set forth herein is the only warranty given by Amiad and is provided in lieu of any other warranties created by any documentation, packaging or otherwise.
11. Amiad makes no warranty whatsoever in respect of accessories or parts not supplied by Amiad. In the event that Amiad is required to correct a defective Product or product not covered by this warranty, it will do so solely in consideration for additional fees.