

Monitor-inox GP 2500 & 3000 heightened on a pole

DESCRIPTION

Monitor-inox GP 2500 & 3000 on pole, manual vertical and horizontal orientation with handlebar, aimed to protection industrial area.

It is composed of :

- tripod with elbowed inlet with flange
- a rotation bearing
- one or several vertical connecting pipes
- a set of operation cables
- one or several guiding and support pipe bearings
- a **monitor-inox GP 2500 or 3000** with vertical bearing.

Its installation requires a vertical structure for the fixing of the pipe bearings.

CONSTRUCTION

- Tripod in steel protected with red plasticization.
- Rotation bearing, pipe and monitor in 316L stainless steel with electrolytic polishing.
- Handlebar in stainless steel.
- Cable set in stainless steel.
- Pipe bearing in treated steel, finishing with black anodization.

OUTLET EQUIPEMENT

- **TURBOPONS 2000, 3000** nozzle.
- **TURBOMOUSSE 3000.**
- Low expansion foam nozzle of 1500 to 3000 l/min.
- Water nozzle, straight jet from 1200 to 3000 l/min.

CHARACTERISTICS

Tripod

- Inlet flange : ND 100 PN16.
- Outlet flange : ND 100 PN 16.
- Part number : **3465.951.**

Rotation bearing

- Inlet flange : ND 100 PN 16.
- Outlet flange : ND 80 PN 16.
- 360° rotation angle with blocking every 12°.
- Part number : **0003.889PN.**

Connecting pipes

- Flange : ND 80 PN16.
- Inside Ø : 83.
- Length : 6 meters (3 x 6 meters for the maximum height).
- Handlebar with locking every 12°.
- Part number : **3452.8T0600.**

(This reference includes the cable set and the operation device).

Monitor GP 2500 and GP 3000

- Inlet flange : ND 80 PN16
- Outlet thread : Male G2 1/2
- Angle : 120° (+ or - 60°)
- Part number GP 2500 : **3452.829PM**
 GP 3000 : **3452.830PM**



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⚠ CAUTION

Before installing this monitor, check the good conditions of the different parcels and make sure that the product and its components do not have suffered any damage during transport.

The pipes are heavy and bulky, some precautions have to be taken during handling.

Before any installation, control beforehand the inlet flange of the whole set. It is aimed to support the whole weight and the constraints of the monitor mounted on the pole. Do check that this flange is straight. The vertical structure has to support all the efforts created by the recoil effects generated by the monitor.

Complete composition of the monitor on pole : (Fig. A)

- Tripod with flanged inlet (**Rep 1**).
- Rotation bearing (**Rep 2**).
- One or several pipes (depending on the required height). They are different, depending on their function : low pipe (**Rep 3.1**), high (**Rep 3.2**) and intermediary.
- One or several pipe bearings (**Rep 3.3**), one per pipe.
- An operation cable set (**Rep 3.4**).
- A **MONITOR-INOX** (**Rep 4**).

It can be necessary to add some wall brackets that will insure the connection between the pipe bearings (**Rep 3.3**) and the vertical support structure, depending on the required horizontal angle and the constraints by the operation of the handlebar (**Rep 3.14**). These devices have to support the forces generated by the monitor and be adjustable in all degrees of latitude in order to insure the aplomb and alignment of the pipe supports.

Mounting of the rotating bearing (Rep 2) :

Make sure that the inlet flange of the tripod (**Rep 1**) is well designed and horizontal.

Connect the inlet flange to the the feeding pipe with M.16 bolts (not supplied) and do not forget the flange gasket (not supplied).

An isolating stop valve can be installed (not supplied).

Mounting of the pipe bearing(s) and the pipes (Fig. B,C,D)

Measure the height of each component before fixing.

The bearings have to be pre-installed in the most accurate way. The final alignment will be done after installation of the cables (**Rep.3.4**).

The upper face of each bearing (**Rep.3.3**) has to be parallel to the ground and aligned with the flange of the rotating bearing (**Rep 2**) (**Fig. C**).

A wrong alignment will generate an important torque and a premature wear of the rotation bearing.

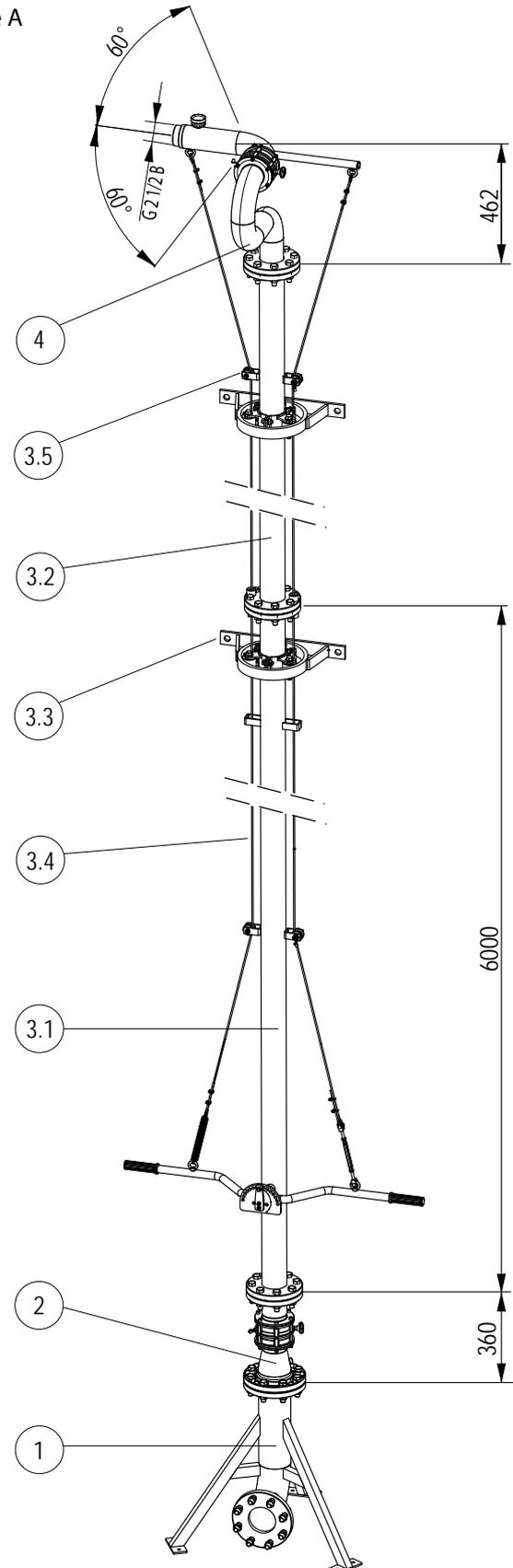
The upper pipe bearing has to be below the cable guide wheels (**Rep. 3.5**) and to a distance of 100mm (**Fig. B**).

The intermediate bearing(s) have to be settled below the flanges and to a distance of 200 mm (**Fig D**).

The pipe can be installed when the pipe bearings are correctly secured and pre-aligned.

The pipes have to be mounted one after another. Screw without blocking the base pipe (**Rep 3.1**) on the rotation bearing (**Rep 2**) with M.16 bolts and adding the flange gasket.

Figure A



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Assemble the 1/3 of collars (**Rep 3.6**) on the pipe with M.10 bolts, the washers and nuts (**Rep 3.7, 3.8, 3.9**) and block them using a product type «thread lock».

Center them correctly and vertically with respect to the support (**Rep 3.3**).

Angularly position in order to avoid the contact of the cable and insure its free operation (**Fig. E,F**).

Tighten.

Repeat this operation for each pipe and bearings.

Mounting of the monitor (Rep 4)

Position the nozzle such as the anchorage rings of the cables (**Rep 4.1**) are aligned with the wheels.

Fix the monitor on the upper flange of the pipe (**Rep 3.2**) with M.16 bolts. Do not forget to add the gasket.

Cable set mounting (Rep 3.4)

Put the cable through the flange cable guide (**Rep 3.10**), (in case of several pipes), through the pipe cable guide (**Rep 3.11**) and through the wheels (**Rep 3.5**) (**Fig F**).

Pass de cable (**Rep 3.4**) and the cable lug (**Rep 3.12**) through the rings (**Rep 4.1**) of the monitor.

Tighten the 2 cable holders, the maximum length of the return cable is 130 mm (**Fig G**).

Block the monitor in horizontal position with the knob (**Rep 4.2**).

Align the flanges and cable guide to catch up with the M.16 bolts wear clearance.

Block the flanges.

Re-aligned correctly the pipe bearings (**Rep 3.3**). The cables should not rub against the cable guide (**Rep 3.10**). An important friction will make the operation difficult and generate a premature wear of the cables.

Position the operation handlebar (**Rep 3.14**) in horizontal position.

Position the pin (**Rep 3.15**) to maintain it.

Put the spring (**Rep 3.16**) through the ring on the left side of the handlebar (**Rep 3.14**).

Pass the cable (**Rep 3.4**) and the lug (**Rep 3.2**) through the spring (**Rep 3.16**).

Tighten the spring in order to stretch it out of 65 mm approximately.

Tighten the 2 cable clamps, the maximum length of the return of the cable is 130mm.

Pass the tensioner (**Rep 3.17**) through the ring on the right side of the handlebar (**Rep 3.14**).

Loosen it completely.

Pass the cable (**Rep 3.14**) and the lug (**Rep 3.12**) through the tensioner (**Rep 3.17**).

Tighten the cable.

Tighten the 2 cable clamps, the maximum length of the return of the cable is 130mm.

Unscrew the knob (**Rep 4.2**) of the vertical bearing of the monitor.

Slightly tighten the tensioner (**Rep 3.17**) so the spring (**Rep 3.16**) is always stretched out of approximately 65 mm.

The assembling is finished. Control the good clamping of all the fixing devices.

Figure B

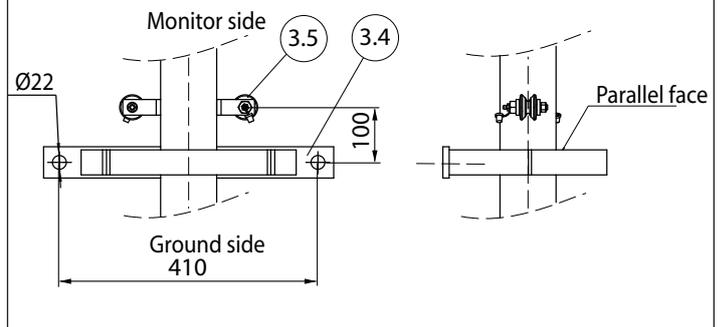


Figure C

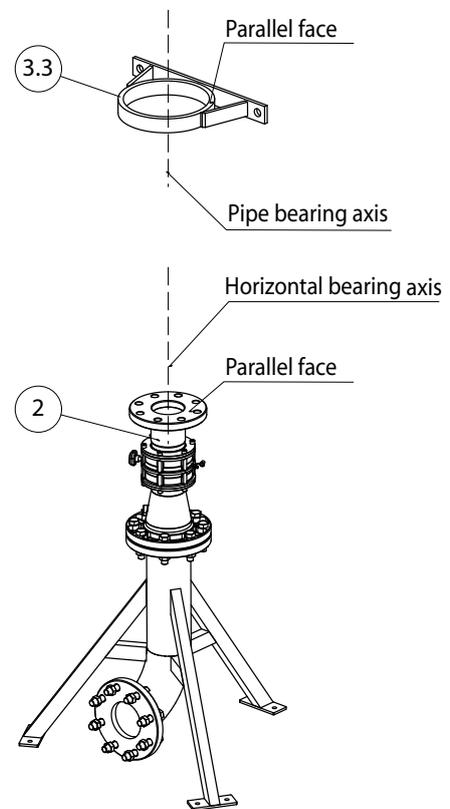
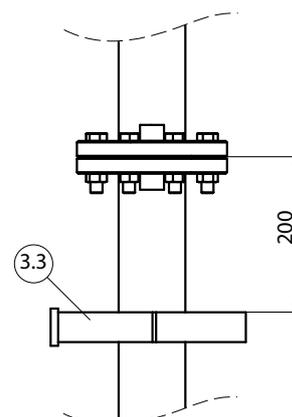


Figure D



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USE

Screw the diffusion device (**TURBOPONS** nozzle etc....) to the outlet of the monitor.

Before the use with water, move vertically and horizontally the monitor, until its maximum angles, in order to make sure that nothing is stopping the movements and that everything works on well.

Progressively open the water supply and insure not to overpass the hydraulic performances of the Monitor-inox indicated on the sticker (**max flow rate = 2500 l/min at 6 bar for the GP 2500 and 3000 l/min at 8 bars for the GP 3000**).

At the end of the operation, block the horizontal bearing and pin the handlebar in the required position.

MAINTENANCE

Control operation to be regularly done:

Note : the control operations have to be done regularly (based on the frequency of use of the monitor).

Check the conditions of the different components (corrosion, abnormal wear etc...).

Check the cleanliness of the whole set and the bearing parts.

Check the vertical and horizontal good operations.

Check the good rotation of the pulleys of the 1/3 collars (**Rep 3.6**) during the horizontal operation. In case of blocking, dismount the M.12 bolt then lubricate the inside of the pulley.

Lubricate annually through the greasings of the bearings of the handlebar (**Rep 3.14**) and the wheels (**Rep 3.5**).

Figure E

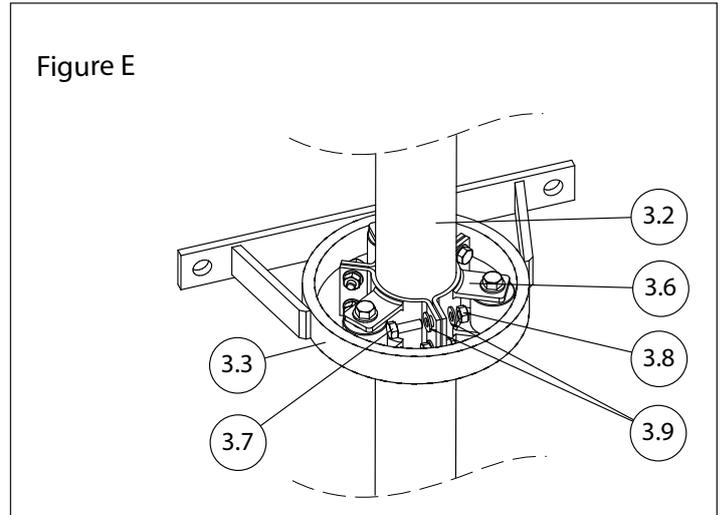


Figure F

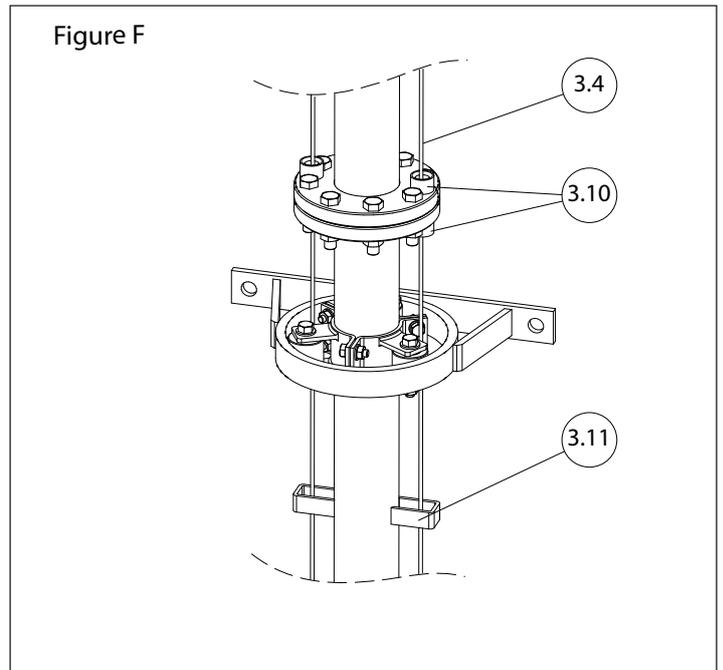


Figure G

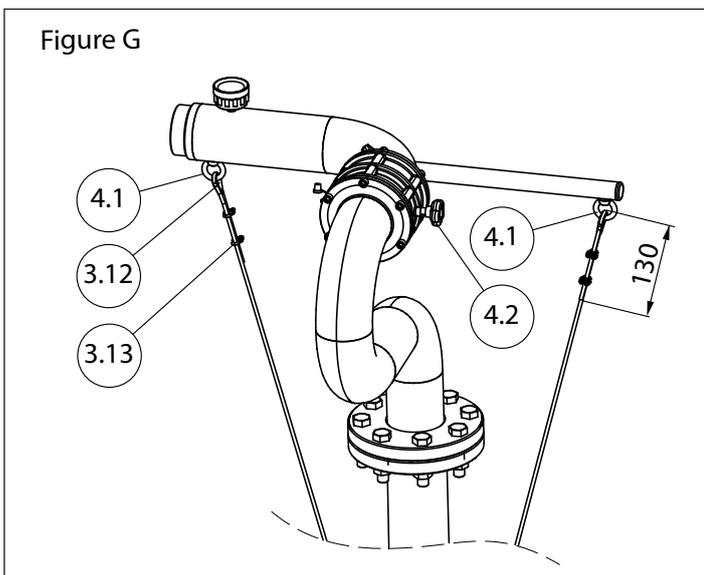


Figure H

