

Since many years SDM manufactures high quality monitors, showing a perfect inside surface finish which allows for superior values of throw.

In addition our range is a very complete one and covers all the requirements for professional fire-fighting systems, including the most sophisticated remote control models.

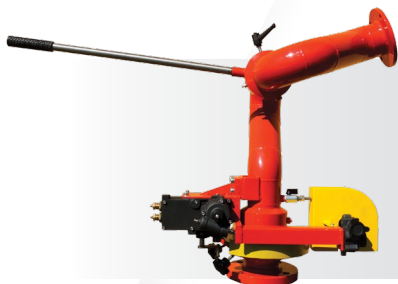
Our range of monitors is shown in the following pages and organized in different groups, by type of monitor operation. Accessories and equipment related to monitors like poles are shown at the end of this section.



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MANUAL CONTROL

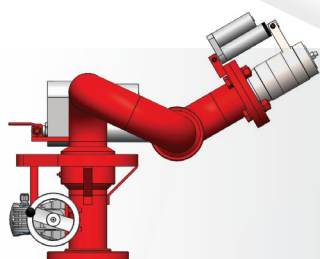
Here lever and wheel operated monitors are shown. They are available in any possible combination



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AUTOMATIC OSCILLATION MONITORS

These models are operated by the classic water turbine device, taken to perfection through years of continuous improvement



PAGE 30

ELECTRIC DRIVE MONITORS

A perfect device, also available as ATEX model and/or fitted with remote control

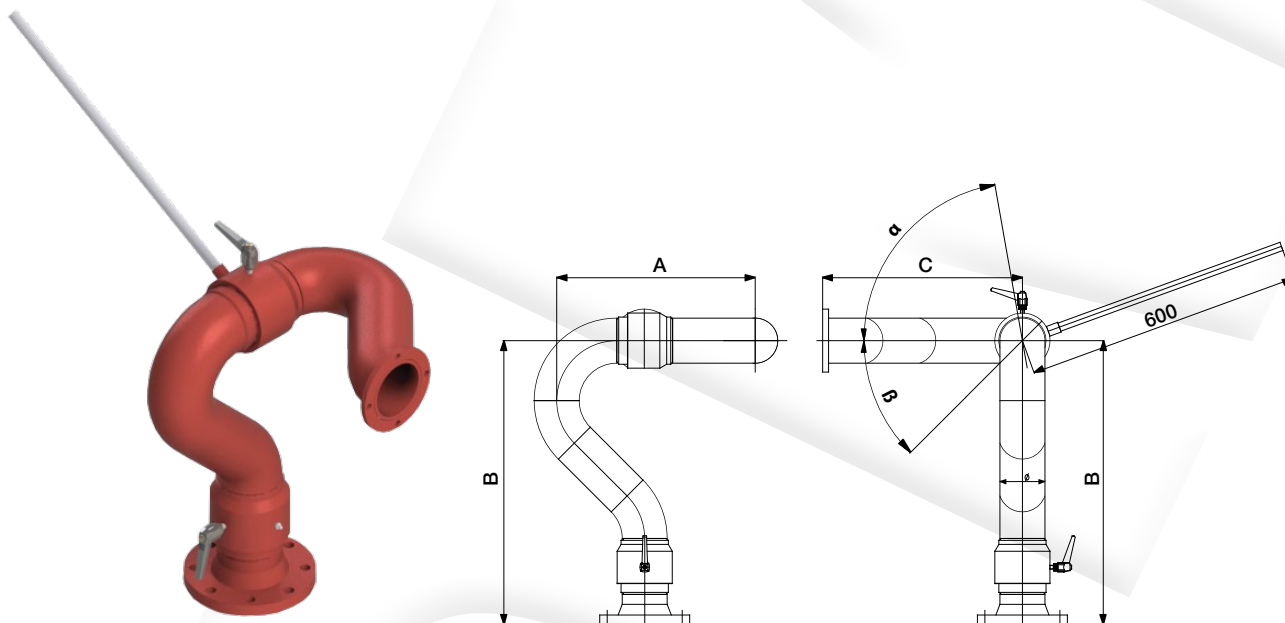
PAGE 31

HYDRAULIC DRIVE MONITORS

A real high class product, including the most modern and proven components, also delivered with remote control.

MONITORS**Manual control**

The monitors shown in this page are built in three different sizes, these monitors are supplied only for manual operation through a lever and can be locked in position by means of locknuts with hand wheel on both bearings. This model is available with a different size for inlet flanges, while the outlet connection is always obtained with an our standard flange.



Code	Body Size inches	Material	A mm	B mm	C mm	α °	β °	Weight kg	Flow Rate (up to) lpm
URA A200 A1x	2.5"	Carbon Steel	292	388	288	70	65	20	2000
URA A300 A1x	3"	Carbon Steel	276	428	322	80	60	30	3000
URA A300 B2x	3"	Stainless Steel	443	583	434	80	60	30	3000
URA A600 A1x	4"	Carbon Steel	460	575	365	80	60	45	6000
URA A600 B2x	4"	Stainless Steel	505	720	507	80	60	45	6000

Materials**Swivel balls**

Stainless steel AISI 304

Inlet Flange

ASTM A 105 – AISI 304/AISI 316

Surface coating

Epoxy primer / Polyurethanic enamel RAL 3000

Technical characteristics

Rotating joints on double balls track

Inlet flange: ANSI 150 RF or UNI – DIN

Suitable for every kind of throwing device, foam or water.

Pressure**Design pressure**

16 bar

Operation pressure

12 bar

*(recommended)***Order code**

To have a precise identification of required product, the order code must be completed with this code:

X A > UNI Inlet flange

B > ANSI Inlet flange

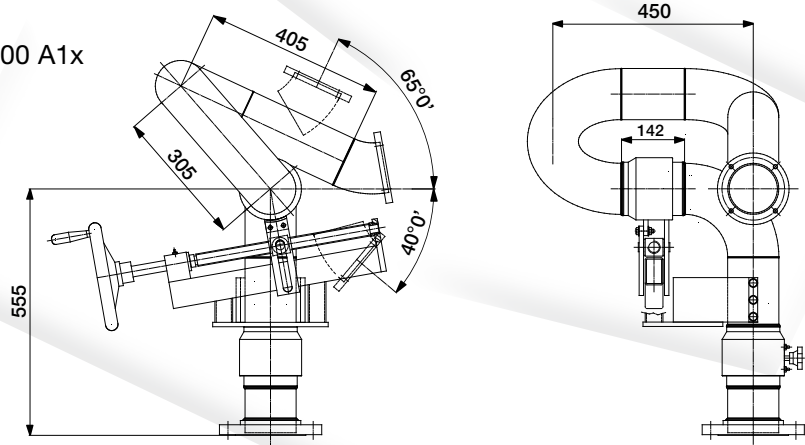
MONITORS

Hand wheel control



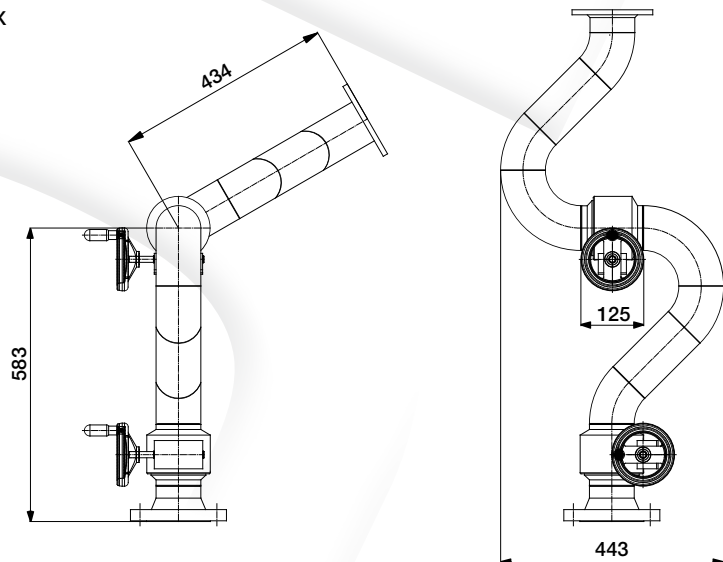
These monitors are supplied only for manual operation through one or two hand wheels.
The model with hand wheel control on elevation only can be locked in any horizontal position by means of a locking handle on the lower bearing.
The outlet connection of these models is always obtained with an our standard flange.

■ One hand wheel model - URA B400 A1x



Body size: 4"
Flow rate: up to 4000 lpm
Approximate weight: 50 kg

■ Two hand wheels model - URA C300 A1x



Elevation: Rotation by hand wheels
Vertical adjustment: Virtually unlimited
Rotating gear: Bronze – AISI 304/AISI 316
Body size: 3"
Flow rate: up to 3000 lpm
Approximate weight: 30 kg

FOR BOTH MODELS:

Materials

Body	Carbon Steel or stainless steel AISI 304/AISI 316
Inlet Flange	ASTM A 105 – AISI 304/AISI 316
Surface coating	Epoxy Primer / Polyurethanic enamel RAL 3000
Stainless steel version	Brushed surface finish

Technical characteristics

Rotating joints on double balls track
Inlet flange: ANSI 150 RF or UNI – DIN
Suitable for every kind of throwing device, foam or water.

Pressure

Design pressure	16 bar
Operation pressure (recommended)	12 bar

Order code

To have a precise identification of required product, the order code must be completed with this code:

- X** A > UNI Inlet flange
B > ANSI Inlet flange

MONITORS

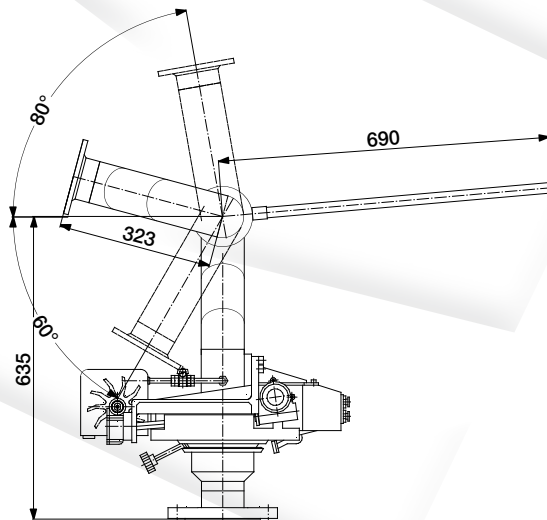
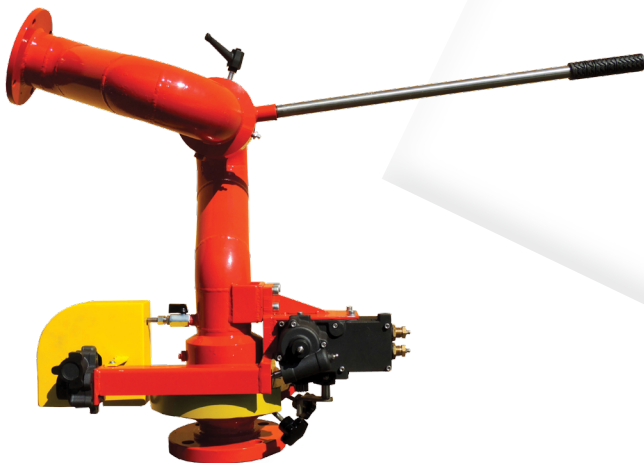
Automatic oscillation monitors



URA D300 A1x

These monitors are built with a water self swinging system which provides movement in the horizontal plane and an adjustable upper joint with a lever for elevation control.

The outlet connection of these models is always obtained with an our standard flange.



Rotating gear: AISI 304/AISI 316

Body size: 3"

Flow rate: up to 3000 lpm

Approximate weight: 40 kg

Materials**Body**

Carbon Steel or stainless steel AISI 304/AISI 316

Inlet Flange

ASTM A 105 – AISI 304/AISI 316

Surface coating

Epoxy Primer / Polyurethanic enamel RAL 3000

Technical characteristics

Rotating joints on double balls track

Inlet flange: ANSI 150 RF or UNI – DIN

Adjustable swinging field from 0° to 350°

Light alloy gear box

Pressure**Design pressure**

16 bar

Operation pressure

12 bar

(recommended)

Order code

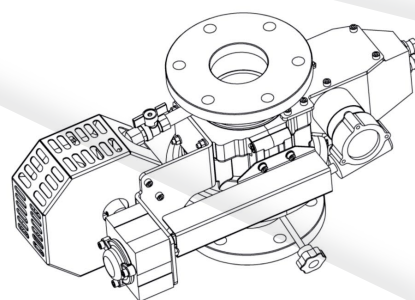
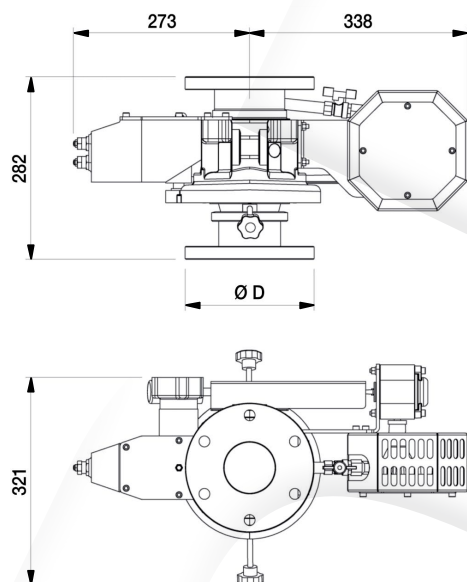
To have a precise identification of required product, the order code must be completed with this code:

- X** A > UNI Inlet flange
 B > ANSI Inlet flange

Our self swinging unit is based onto the classical design where a water driven turbine wheel supplies the energy to rotate the monitor through a gear train.

Our long experience, which has been built over thousands of units supplied in the last thirty years, makes it possible to reach a very high degree of reliability in operation together with the very good resistance to weather conditions obtained by the choice of the best quality materials and surface treatment.

This unit can be retro fitted to each one of our standard hand control monitors in order to change it into a self swinging one, or can be disassembled from a self swinging one in case of malfunction still leaving the monitor fully available albeit with hand control.



Materials

Body (pipes and joints)

AISI 316 stainless steel

Swivel balls

Phosphorus bronze

Inlet flange

DIN ND16 Carbon steel (AISI 316 / ANSI 150 as an option)

Surface coating

Epoxy / Polyurethane red RAL 3000

Specification

Design pressure

16 bar

Operation pressure

12 bar

(recommended)

Water requirement (7 bar)

20 lpm

Rotation rate (7 bar)

5° per second

Rotation range

15° to 360°

Weight

18 kg

Maximum water capacity (7 bar)

5.000 lpm

Inlet flange

3" / 4"

Many optional designs are available, like monitors with an elevation joint only, or with hand lever control, whose specifications are available to our customers upon request.

MONITORS

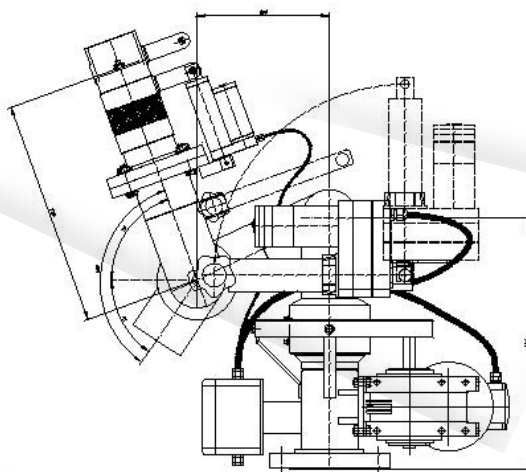
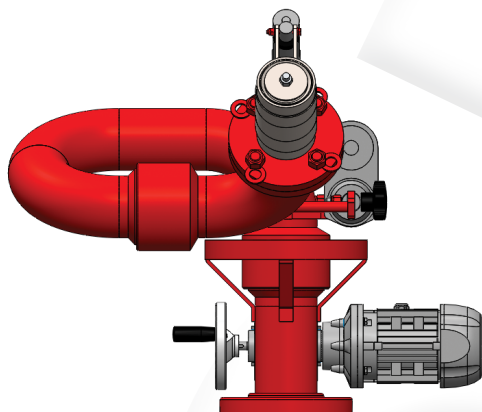
Electric drive monitors

URA H700 A1x

This monitor is fitted with two electric motors which provide movement to the direction and elevation swivel joints, allowing therefore complete remote control for the monitor.

Both electric drive units are fitted with an emergency hand wheel in case of malfunction.

The outlet connection of these models is always obtained with an our standard flange.



Body size: 4"

Flow rate: up to 7000 lpm

Approximate weight: 90 kg

Materials

Body	Carbon Steel or AISI 304/AISI 316
Inlet Flange	Carbon Steel or AISI 304/AISI 316
Rotation gear box	AISI 316 L
Surface coating	Epoxy Primer / Polyurethanic enamel RAL 3000
Stainless steel version	Brushed surface finish

Technical characteristics

Inlet flange: ANSI 150 RF or UNI – DIN

Rotating joints on double balls track

Continuous rotation field of 355°

Elevation with reduction gear IP65 or Ee-XD

Rotation with reduction gear IP65 or Ee-XD

Electric adjustable nozzle IP65 or Ee-XD

Suitable for every kind of throwing device, foam or water.

Pressure

Design pressure 16 bar

Operation pressure 12 bar
(recommended)

Order code

To have a precise identification of required product, the order code must be completed with this code:

- X** A > UNI Inlet flange
B > ANSI Inlet flange

MONITORS

Hydraulic drive monitors

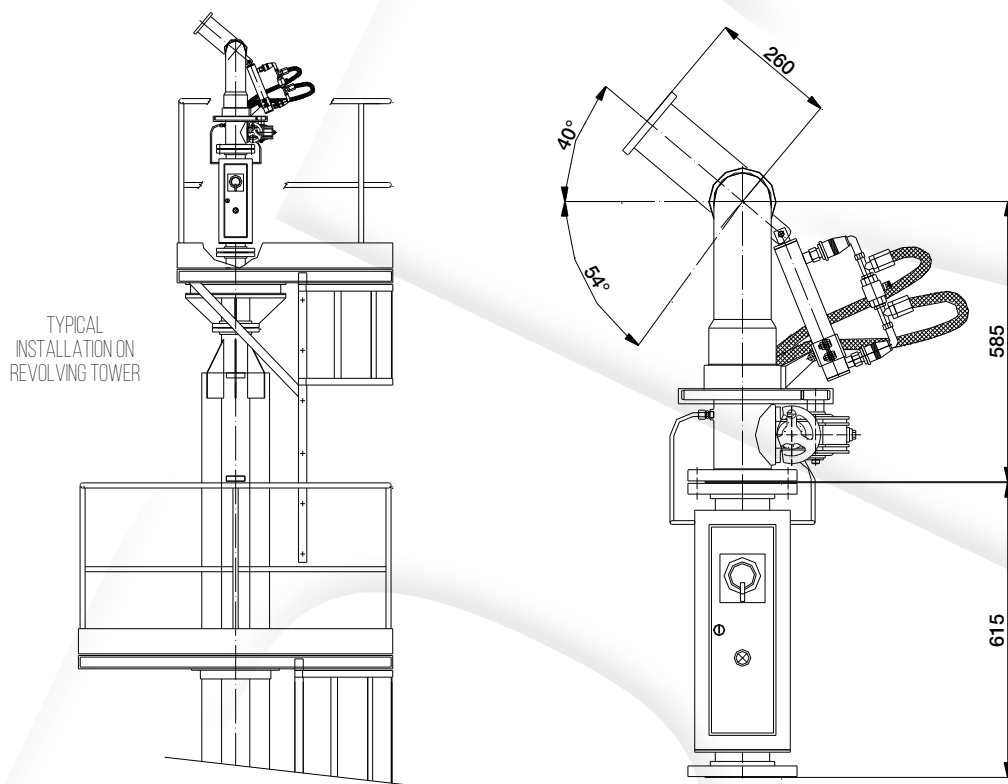


URA N500 A1x

This monitor is fitted with two hydraulic motors which provide movement to the direction and elevation swivel joints, allowing therefore complete remote control for the monitor.

Both hydraulic drive units are fitted with an emergency hand wheel in case of malfunction.

The outlet connection of these models is always obtained with an our standard flange.



Body size: 4"

Flow rate: up to 5000 lpm

Approximate weight: 80 kg

Materials

Body:

Carbon Steel or AISI 304/AISI 316

Inlet Flange:

Carbon Steel or AISI 304/AISI 316

Rotation gear box:

AISI 316 L

Surface coating:

Epoxy Primer / Polyurethanic enamel RAL 3000

Stainless steel version:

Brushed surface finish

Technical characteristics

Inlet flange: ANSI 150 RF or UNI – DIN

Rotating joints on double balls track

Continuous rotation field of 360°

Complete with power pack on board

Suitable for every kind of throwing device, foam or water.

Pressure

Design pressure

16 bar

Operation pressure

12 bar

(recommended)

Order code

To have a precise identification of required product, the order code must be completed with this code:

X A > UNI Inlet flange

B > ANSI Inlet flange