forede®

# OSC100-SX

## FIXED FLANGE END OSCILLATING DEVICE

Aircraft Hangars / Industries / Marines


QUANZHOU FOREDE FIREFIGHTING EQUIPMENT CO.,LTD.

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www.forede.com

forede®
Firefighting Equipment Manufacturer

# FIXED FLANGE END OSCILLATING DEVICE

## OSC100-SX

## EQUIPPED WITH FOREDE® MONITORS OPTIONAL

The FOREDE® Brand OSC100-SX Water-Powered Oscillating Device provides unparalleled performance with simple, yet rugged design features in a compact construction. The device is designed to provide an oscillating water or foam stream over a pre-set area of protection. The device can be supplied with FOREDE® monitor series, which are available with flow rate from 150 up to 1250 GPM (600 to 4800 LPM) at 50-145 psi (3.5-10 bar) inlet nominal working pressure to the device connection.

### FEATURES

- Large protection area
- Kinds of FOREDE monitor series for optional
- Oscillating angle and oscillating speed could be adjustable
- Water-powered automatic oscillating or manual (to control monitor)
- Complete with test port
- Stainless steel 304 protection cover
- Long service and easy repair
- ➢ Corrosion resistant light aluminum alloy + ss304 construction
- ➢ Flow rate from 160 up to 1250GPM (600 to 4800 LPM)
- ➢ Min. protection area: 30 degree
- ➢ Max. protection area: 165 degree
- ➢ Min. working pressure: 3.5 bar (50 psi)
- ➢ Max. working pressure: 14 bar (200 psi)
- ➢ Weight: 25kg
- ➢ Wooden Case Package: 30kg/65*38*46cm
- ➢ Color: SS304 original color standard

**MAXIMUM FLOW**
**1250 GPM @ 145 PSI**
**(4800 L/min @ 10 BAR)**


## DETAILS DESCRIPTION

❖ Compact construction– 370 mm overall height with mounting base; 630 mm length; 445 mm width.

❖ Simple set-up/adjustment device.

❖ Made in hard anodized aluminum alloy and stainless steel 304 for superior corrosion resistance and wear.

❖ Oscillating speed control lever used for easy and quick manual control oscillation.

❖ Available equipped with FOREDE monitor series. Water monitor or foam monitor (self-educting or non self-educting); Handwheel Control or lever control optional based on requirements.

❖ Superior nozzle reach, since low profile permits nozzle elevation angle that optimizes performance while keeping stream below aircraft or other low-level obstructions.

❖ Suitable for operating pressures from 50 to 145 psi (3.5 to 10 bar), Max. Pressure could meet 200 psi (14bar).

❖ Test port provides to set oscillation mechanism without flow through the monitor.

❖ Angle of oscillation arc infinitely adjustable from 30° to 165°.

❖ Oscillation speed infinitely adjustable from highest speed 10 sec/round to lowest 37 sec/round. Oscillation speed can be set to "OFF" in the event that oscillation is not needed.

❖ Full 360° continuous horizontal rotation in manual mode. Release horizontal lock device of monitor for manual operation.

**(Manual mode means, in the case of don't need oscillation, turn to "OFF", manual control fire monitor by man )*

❖ Elevation angle is infinitely adjustable from -45° to 75°. Release elevation lock device of monitor for manual operation. The actual elevation angle depend on the MONITOR MODEL selected by customer.

**(In the case of don't need oscillation, turn to "OFF", manual control fire monitor by man )*

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**DANGER**

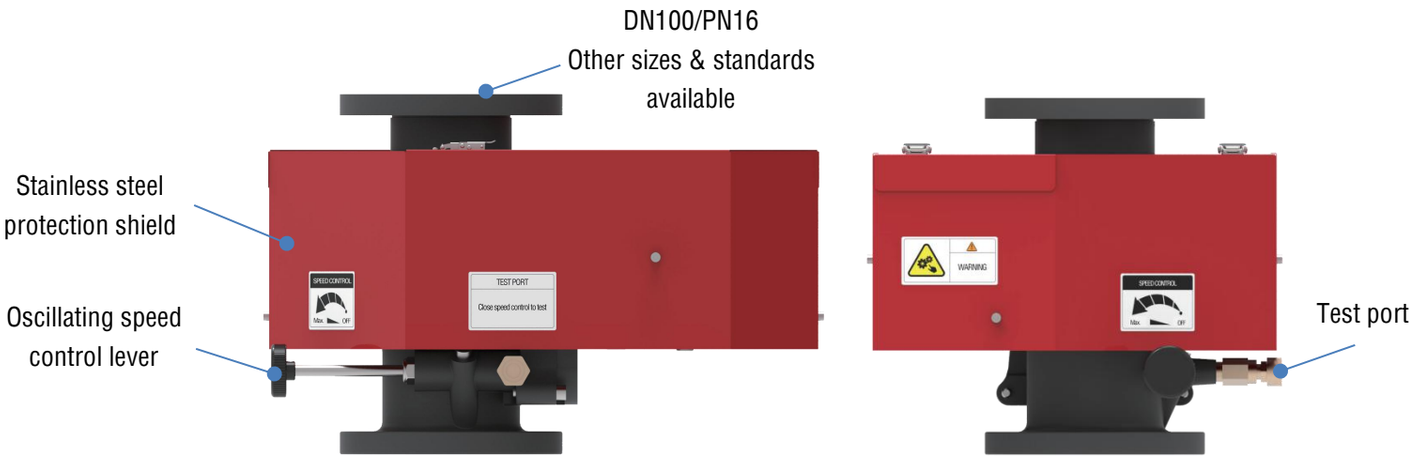
*Understand manual before use. Operation of this device without understanding the manual and receiving proper training is a misuse of this equipment.

*Before using the "TEST PORT", please switch the "OSCILLATING SPEED CONTROL LEVER" to "OFF".

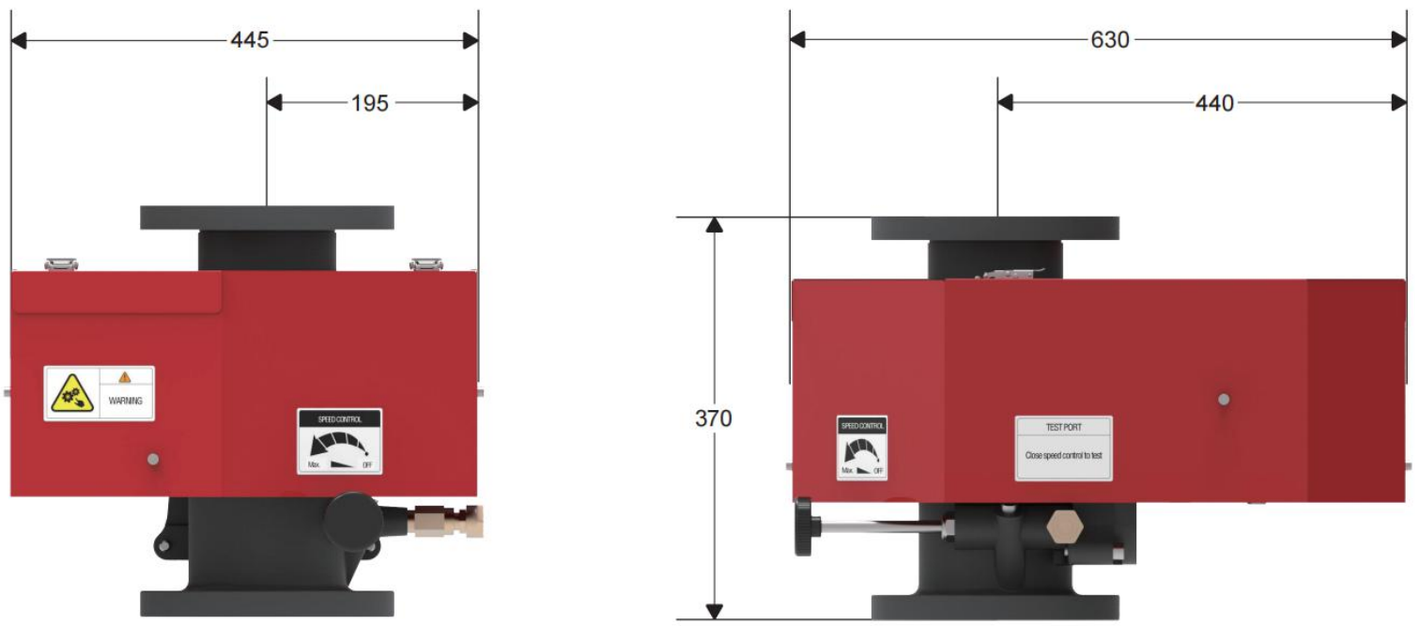
*Before adjusting the oscillating angle, please switch the "OSCILLATING SPEED CONTROL LEVER" to "OFF", then unlatch 2 buckles, open the protection shield to adjust.

*This Instruction Manual is intended to maintenance personnel with the operation, servicing, and safety procedures associated with the portable monitor. This manual should be kept available to all operating and maintenance personnel.

## OUTLINE DESCRIPTION




## OVERALL SIZE



## PARAMETER DATA

| Model | OSC100-SX | Material |
|---|---|---|
| Working Pressure | 50 to 145 psi (3.5 to 10 bar) | Device Body: Hard anodized aluminum alloy<br>Protection Shield: Stainless Steel 304<br>Test Port: Brass |
| Max. Working Pressure | 200 psi (14 bar) | |
| Min. Flow Rate | 160 GPM (600 LPM) | |
| Max. Flow Rate | 1250 GPM (4800 LPM) | |
| Oscillating Angle | 30°, 60°, 90°, 120°, 140°, 165° | |
| Oscillating Speed | ＞ 3 round/min | |
| Inlet&Outlet | DN100/PN16 BS Flange, other sizes & standards available | |
| Surface Finished | SS304 original color standard, others available<br>Corrosion resistant | |

## OPERATING & BRIEF INSTRUCTIONS

### OSCILLATING SPEED CONTROL

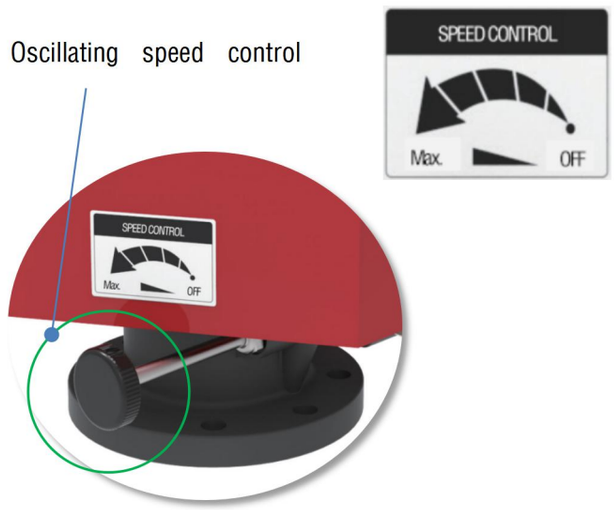
The Oscillating speed control lever is to adjust the device/monitor automatic sweep speed. There are 2 patterns to control the speed and an "OFF" to stop oscillating if not needed:

1. Rotation the knob of lever to far left, Max speed is 10 second/round.
2. Rotation the knob of lever close to far right, the speed is 37 second/round.
3. Rotation the knob of lever to far right "OFF" to stop the device

According to the actual requirements, adjust the speed to achieve the ideal fire extinguishing effect; if required to extinguish the fixed fire source, please refer **3** to control the device

**WARNING: When commissioning speed of device, make sure there is no people stand on device protection area to avoid injury.**

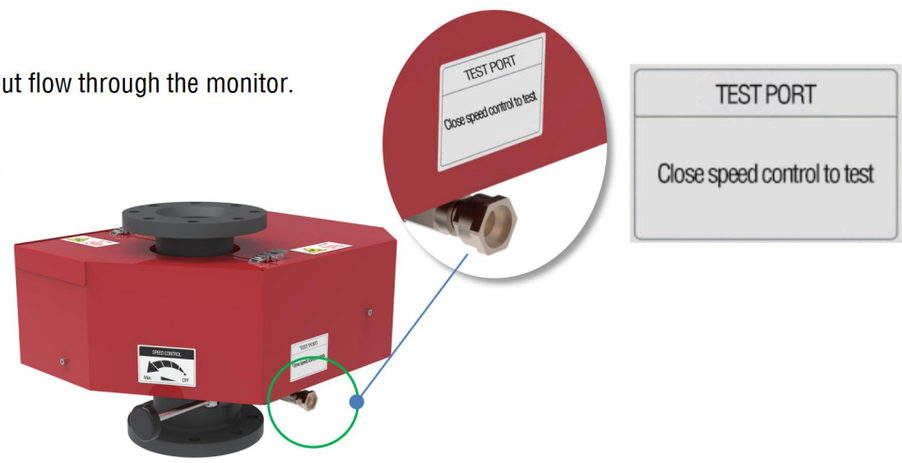
Oscillating speed control




### TEST PORT

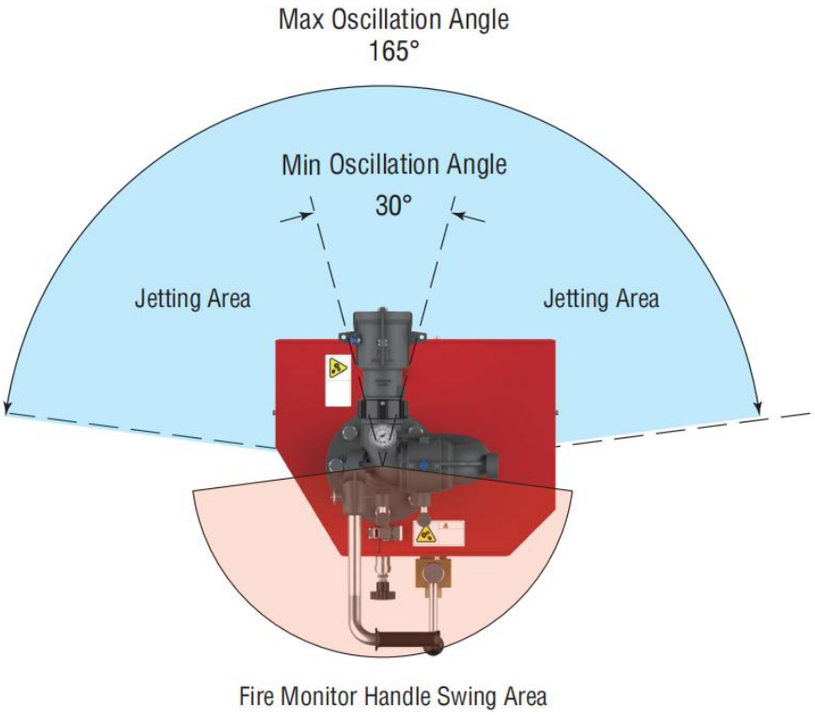
The test port provides means to set oscillation device without flow through the monitor.

**WARNING: Before using the test port, must rotation the knob of lever to far right "OFF" to stop the device**



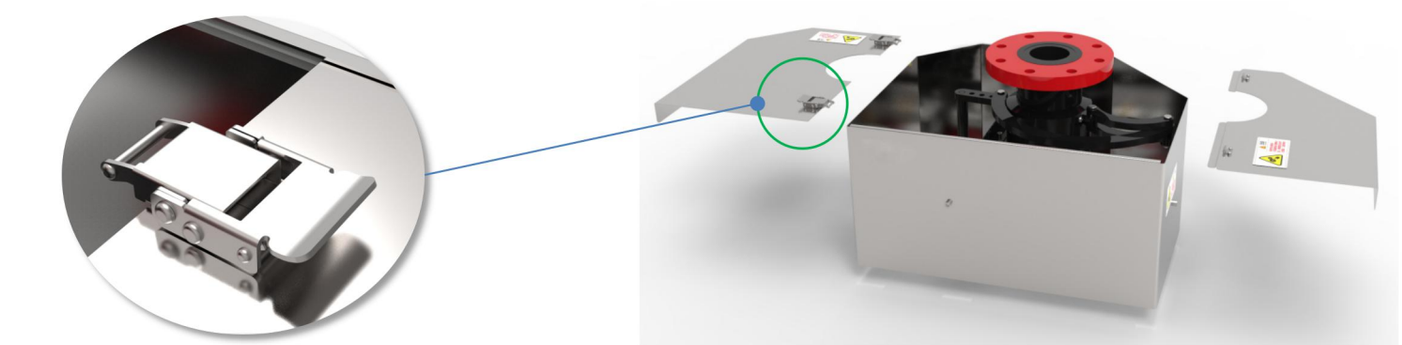
## HORIZONTAL OSCILLATING SWEEP ANGLE

The oscillating sweep angle device is inside of the protection shield. It used for adjusting the device/monitor protection area.
The oscillating angle from Min. Angle 30° to Max. Angle 165°.

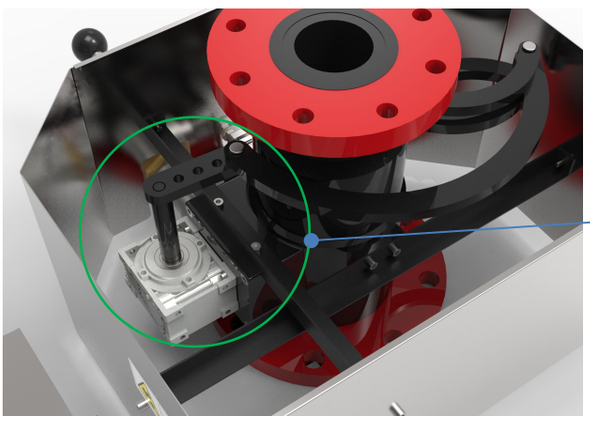


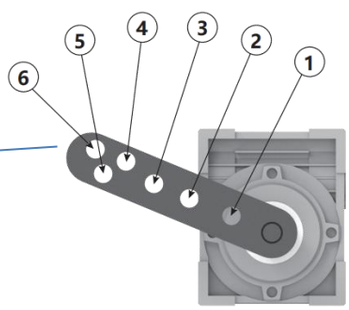

**WARNING: Before opening the protection shield, please check if cut off water, and stopped the device oscillating status to avoid hand injury.**

1. Make sure the device stopped, then unlatch 2 buckles, open the protection shield carefully.



2. Adjust angle according to below.






| NO. | Max. Oscillating Angle |
|---|---|
| 1 | 30° |
| 2 | 60° |
| 3 | 90° |
| 4 | 120° |
| 5 | 140° |
| 6 | 165° |

3. Put on the protection shield back and latch 2 buckles.

### ELEVATION STREAM RANGE

Different fire monitor has own elevation angle, the actual elevation angle depends on the MONITOR MODEL customer select.
FOREDE® brand with various of monitors for selection. For more information about FOREDE® monitor series, Please view our website to contact our sales team - **www.forede.com**

## OPERATIONAL REQUIREMENTS & PRECAUTIONS

- The personnel operating the fire monitor must be trained in operation and be familiar with the relevant operation process.
- The inlet pressure of water shall not be higher than the working pressure of the monitor.
- Before using the fire monitor, all personnel in front of the muzzle should be evacuated to avoid danger.
- When operating, it should be jetted downwind as far as possible to increase the range.

## MAINTENANCE

*The maintenance of OSC100-SX device/fire monitors should be handled by dedicated personnel.

- The fire monitor should be kept clean. After use, the nozzle should be tilted to pour out the remaining liquid in the cavity, and the exterior should be cleaned with clean water and wiped off the water stains. Dual-purpose monitor(water/foam), the interior must be rinsed with clean water, and then the accumulated water must be released.
- The device/fire monitor should be maintained regularly, and all fasteners of them should be inspected after use and every six months.
- The meshing part of the worm gear and other rotating parts should be filled with grease for half a year to ensure flexible rotation.
- All parts should be kept in good condition. If the fasteners are found to be loose and other accessories are damaged, they should be repaired in time.
- When not in use, cover it with a rain-proof cloth. The unit should be stored in a normal temperature, dry and non-corrosive place.
- When the working pressure of the device/fire monitor is found to be too high or the shooting range is short, check whether there is any blockage at the nozzle, and clear it in time.
- If there is leakage at each connection part of the device/fire monitor, check whether the seal is intact, and replace the seal in time if damaged.
- The rotating part of the fire monitor is not flexible, the operation is difficult, or the angle adjustment cannot reach the expected range, grease should be applied to the rotating part or the parts should be replaced in time.
- In cold areas, take measures to prevent cold and frost, such as drainage and heat preservation.

## ORDERING GUIDE

- Model Number
- Inlet Connection way, size and standard.
- Order Quantity
- Shipping/Transportation Way

***Other special requirements please contact FOREDE SALES TEAM.**

**Tips: for more related products or other firefighting equipment, please forward to our website, www.forede.com**