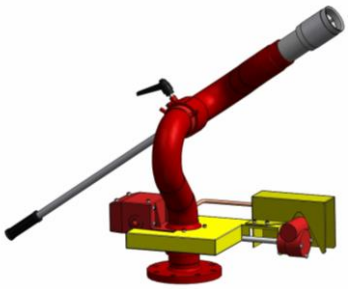
REMOTE MONITORS

Model AG-SO
Self oscillating monitor
AG-SO3, AG-SO4, AG-SO3I & AG-SO4I



PRODUCT DESCRIPTION

The monitor model AG-SO can be used with either water or any type of foam solutions. It is a simple and reliable design. Its construction is in welded carbon steel or stainless steel single waterway with a low friction loss.

Mounted on double ring of spheres with graser and locking device.

Can be supplied with foam branchpipes, water branchpipe and full/fog jet nozzles.

It is designed to prevent the jet reaction forces in the horizontal and vertical position.

Computer designed guide vanes cast into the body reduce turbulence and spin in the water stream lowering pressure loss and improving jet reach. Flow rate is dependent on nozzle choice. For technical details of nozzles see separates data sheet.

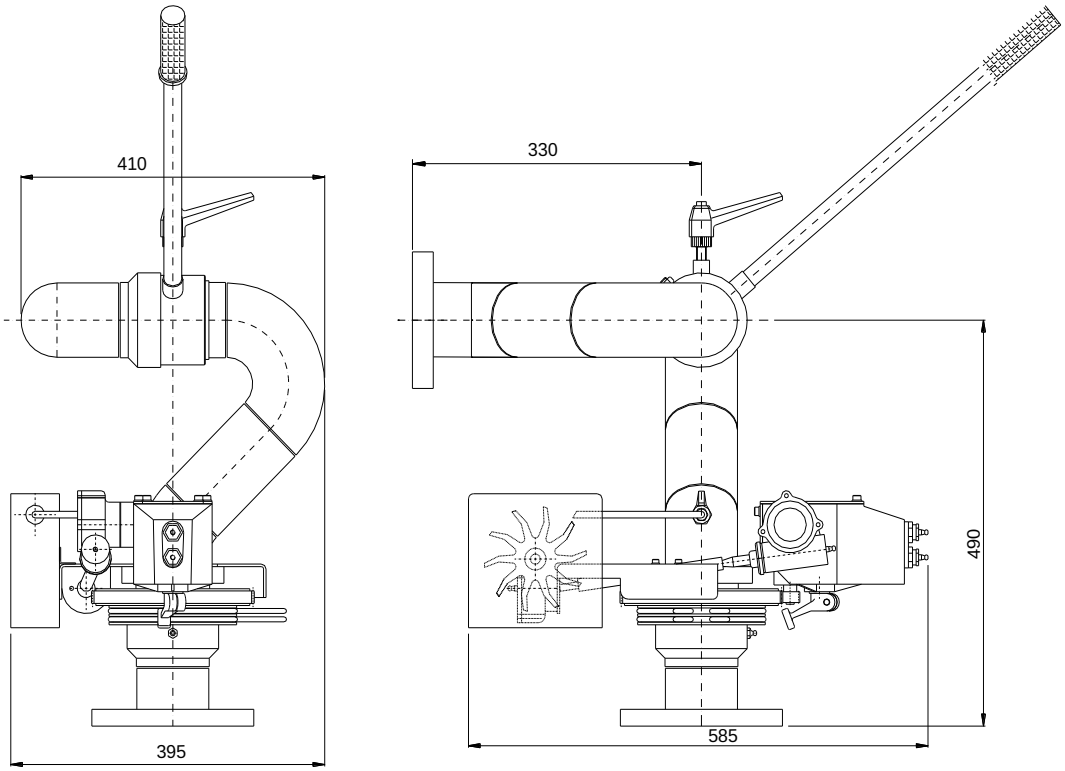
The nozzle can be manufactured for safe area IP65 or EEXD.

TECHNICAL DATA

Models	AG-SO3 / AG-SO3I AG-SO4 / AG-SO4I
Inlet connection	Flange 3″ DN80 or 4″ DN100 UNI or ANSI (AG-SO3 / AGSO3I) Flange 4” DN100 or 6” DN 150 UNI or ANSI (AG-SO4 / AGSO4I)
Waterway	3” DN80 (AG-SO3 / AGSO3I) and 4” DN100 (AG-SO4 / AGSO4I)
Discharge connection	Thread 3” or 4” BSP (Male or Female) Flange 3” or 4” UNI or ANSI
Maximum flow	AG-SO3 / AG-SO3I: 3510 lpm (1060 gpm) AG-SO4 / AG-SO4I: 6510 lpm (1720 gpm)
Maximum service pressure	12 bar (175 psi)
Elevation	70 Deg. above horizontal & 45 Deg. below horizontal
Rotation	340 Deg. continuous
Materials	AG-SO3 & AG-SO4: Carbon steel AG-SO3I & AG-SO4I: Stainless steel
Weight (Approx.)	AG-SO3: 41 kg AG-SO3I: 30,5 kg AG-SO4: 51 kg AG-SO4I: 40,5 kg
Finish	Red RAL 3000
Optional	Ex

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DIMENSIONS



Dimensions are approximate and subject to change.

NOZZLE THRUST REACTION

Nozzle thrust reaction (kg) = Flow (lpm) X √Pressure (kg/sq.com) X 0,0228

PRESSURE DROP AT 10 bar

PRESSURE DROP bar (psi)	**DELIVERY** lpm (gpm)	
	AG-SO3 / AG-SO3I	**AG-SO4 / AG-SO4I**
0,2 (2,9)	1010 (266,8)	4010 (1059,4)
0,8 (11,6)	2010 (531)	5010 (1323,6)
1,86 (26,9)	3510 (1060)	6510 (1720)

INSTALLATION, TESTING AND MAINTENANCE

The monitor must be installed, inspected and tested by a qualified and trained person.

It must be inspected regularly for possible damage or dirt around the moving parts. If any abnormal conditions are observed such as poor discharge, excessive wear, water leak, corrosion effect, damage etc., then monitor must be taken out of service and repaired by qualified technician or replaced.

Before assembly of the monitor to the supply piping, thoroughly flush the piping with water to avoid sand, residue, welding slag or other debris hindering the proper functioning of the monitor.

After few initial successful tests, an authorized person must be trained to perform the inspection and testing of the monitor.

The monitor should be ready for use. To achieve this condition, scheduled inspection and maintenance operation should be performed and it must be recorded in the maintenance register book indicating the requirement or recommendation. The recommended maintenance, procedure must be followed as given in the manual and also as per the local authority having jurisdiction.

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It is recommended to carry out weekly physical inspection of the monitor. The inspection should verify that no damage has taken place to any component and the monitor is ready for use.

Carry out functional test every month for the flow, regular rotation in horizontal and vertical plane for the entire operating range to observe any leakage.

Periodic proper greasing through grease nipple provided on bearing, worm wheel and worm shaft must be ensured. Use water resistant low friction synthetic grease. Lubrication is required for smooth operation.

The owner is responsible for maintenance of the nozzle in proper operating condition.

After use with foam, it is necessary to flush it with fresh water.

CAUTION

A trained personnel for fire fighting, with appropriate guidance & training must use the product to reduce the risk or injury. The nozzle must be fixed to the monitor carefully. The mismatched or damaged threads may cause leakage or uncouple the nozzle during operation.

The piping must be able to with stand the horizontal reaction force. Serious injury to personnel and equipment can result from improper installation.

When installing monitor it is very essential that flange bolts be tightened uniformly to prevent cocking of the monitor relative to the flange or valve.

Before supplying water from monitor, check that all personnel are out of stream path and stream direction will not cause avoidable property damage.

Application of water or foam on an electric appliance can cause serious injury by electrocution, as water is a conductor of electricity.

The water supply to the nozzle must be gradual. Sudden surge of water supply must be avoided. The monitor mounting must be supported properly to support the nozzle reaction force.

ORDERING INFORMATION

WATER FLOW	MATERIAL	
	CARBON STEEL	STAINLESS STEEL
4010 lpm	AG-SO3	AG-SO3I
6010 lpm	AG-SO4	AG-SO4I

Specify:

Monitor Model	
Quantity	
Material	
Inlet flange size	
Discharge connection	

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