

**MANUALLY HANDWHEELS OPERATED MONITOR AS3 TYPE**

**OPERATING AND MAINTENANCE HANDBOOK**

**TECHNICAL DATA**

Flanged inlet	3" or 4" ANSI 150 lbs RF DN 80 or DN 100 DIN PN 16
Max. working pressure	16 bar
Test pressure (mechanical strength)	24 bar
Test pressure (rotating joints tightness)	20 bar
Flowrate range	1.000÷3.000 lt/min.
Type of operation	manual by handwheels
Horizontal movement	360° endless
Vertical movement	-55° / +70°
Locking device for horizontal movement	yes - self locking worm gear
Locking device for vertical movement	yes - self locking worm gear
Rotating joints	with Lubrifon slide bearings and teflon rings
Greasing nipples	yes - on horizontal and vertical rotating joints
Balancing device	yes - for balancing the pipe's vertical movement
Body material	anodized seawater resistant light alloy G-AlSi9 or bronze Bz N7
Pressure loss in the monitor	0,9 bar at flowrate 2.000 lt/min. / 2 bar at 3.000 lt/min.

**PIPES AND NOZZLES**

- water pipe with internal flow stabilizers and water full jet nozzle in anodized light alloy G-AlSi9
- water pipe with internal flow stabilizers and K type manually adjustable water nozzle for full jet and spray jet in anodized light alloy G-AlSi9 (max.spray angle 30°)
- MS type manually adjustable water nozzle for full jet and fog jet in anodized light alloy G-AlSi9 or bronze BzN7 (max.spray angle 130°)
- A type combined foam/water pipe with nozzle in anodized seawater resistant light alloy G-AlSi9 or bronze Bz N7 and pipe in stainless steel
- AW type self priming combined foam/water pipe with nozzle in anodized seawater resistant light alloy G-AlSi9 or or bronze Bz N7 and pipe in stainless steel
- foam deflector for foam pipes in stainless steel for full jet / flat jet,
- V1 type selector ball valve in anodized light alloy G-AlSi9 for foam/water double pipe operation

## **DESCRIPTION**

Caccialanza monitor AS3 type are light and compact units for high performances, designed to operate in extremely hard conditions and in aggressive environments (refineries, offshore, etc.).

The rotating joints with Lubrifon slide bearings / teflon rings and greasing nipples for the horizontal and vertical movements assure an extremely easy operation and require very little maintenance.

The monitors are manually operated by means of handwheels.

## **OPERATION**

- aim the jet by the handwheels at the fire or objective to be cooled.  
The self locking worm gears assure the stop of the horizontal and vertical movements when leaving the handwheels
- for foam service with self-priming foam/water branchpipe regulate the foam compound admixing valve on the requested percentage.
- for water service with foam/water branchpipe shut the foam compound admixing valve.

After the operation:

- rinse the monitor with clean water, in particular after foam service
- drain the monitor in particular in case of cold weather

## **MAINTENANCE**

- lubricate periodically (at least every 6 months) the rotating joints by means of the greasing nipples and grease the worm gears for the horizontal and vertical movements.

(1.98)