



## Overview A3

The Caccialanza & C. **A3 type monitors** are light and compact units for high performances, designed to operate in extremely hard conditions and in aggressive environments (refineries, chemical industries, offshore, etc.).



The A3 type monitors are available in following executions:

- manually handlever operated (A3)
- manually handwheels operated (AS3)
- automatic oscillating (water pressure operated) (AU3)
- electric remote controlled (A3-EI)
- hydraulic remote controlled (A3-Hy)

The A3 type monitors can be equipped with following water- and foam pipes and nozzles:

- water pipe and full jet nozzle
- water pipe and adjustable water nozzle for full jet / spray jet
- adjustable foam/water nozzle for full jet / wide fog jet
- combined foam/water pipe
- self priming combined foam/water pipe
- selector valve for foam/water operation with double pipe

Main Technical Data of the A3 type monitors (for all executions):

- flowrate range: 1.000 - 3.000 lt/min
- pressure loss:
  - 0,2 bar at flowrate 1.000 lt/min
  - 0,6 bar at flowrate 1.600 lt/min
  - 0,9 bar at flowrate 2.000 lt/min
  - 1,3 bar at flowrate 2.400 lt/min
  - 2,0 bar at flowrate 3.000 lt/min
- max. operating pressure: 16 bar
- inlet flange: 4" or 3" ANSI 150 lbs RF  
DN 100 or DN 80 DIN PN 16
- body material: seawater resistant light alloy EN AB 42000-Al Si 7 MgTA  
Bronze B ZN 7



## Technical data of the A3 type monitors in the different executions:

### Handlever operated A3 monitor

- operation: manual handlever operation
- locking devices: locking in all positions for horizontal and vertical movement
- rotating devices: horizontal and vertical movements on self-lubricating Lubrifon slide bearings and teflon rings
- lubrication: greasing nipples for horizontal and vertical movement
- rotation: 360° endless
- elevation: +65° / -55°

(general assembly dwg. [52050004](#) for Light alloy and dwg. [52050005](#) for Bronze execution)

### Handwheels operated AS3 monitor

- operation: manual handwheels operation
- locking devices: locking in all positions for horizontal and vertical movement with self-arresting worm gears
- rotating devices: horizontal and vertical movements on self-lubricating Lubrifon slide bearings and teflon rings
- lubrication: greasing nipples for horizontal and vertical movement
- rotation: 360° endless
- elevation: +75° / -55°

(general assembly dwg. [52060503](#) for Light alloy and dwg. [52060504](#) for Bronze execution)

### Automatic oscillating AU3 monitor

- operation: automatic: horizontal oscillating movement by means of stainless steel water piston,  
manual: handlever operation
- locking devices: locking in all positions for the vertical movement
- rotating devices: horizontal and vertical movements on self-lubricating Lubrifon slide bearings and teflon rings
- lubrication: greasing nipples for horizontal and vertical movement
- rotation: automatic: adjustable horizontal swiveling range max. 180° (90° on the right - 90° on the left) with shut off and oscillating speed regulating valve  
manual: 360° endless
- elevation: manual: +65° / -45°
- max. oscillating speed (at 8 bar): ca. 8x180° oscillating movements per minute (ca. 24°/sec.)

(general assembly dwg. [52110008](#) Light alloy execution)



### Electric remote controlled A3-EI monitor

- operation: electric: with electric multiturm actuators IP 67, motors 400V/3 Ph/50 Hz, 0,37 kW, (optionally Ex-proof Eexd IIC T4)  
manual: handwheels operation with automatic disconnecting safety device when the monitor is electrically remote operated
  - locking devices: locking in all positions for horizontal and vertical movement with self-arresting worm gears
  - rotating devices: horizontal and vertical movements on self-lubricating Lubrifon slide bearings and teflon rings
  - lubrication: greasing nipples for horizontal and vertical movement
  - rotation: electric: 360° (adjustable)  
manual: 360°
  - elevation: electric: +75° / -55° (adjustable)  
manual: +75° / -55°
  - electric limit switches: rotation max range 360° (adjustable)  
elevation max range +75° / -55° (adjustable)
  - mechanical protection: torque switches (overload protection) for horizontal and vertical movement
  - motors protection: thermoswitches,
  - remote position control: with potentiometer (optional)
  - speed for electric operation: rotation: ca. 180° in 26 sec. (ca. 7°/sec.)  
elevation: ca. 90° in 12 sec. (ca. 7,5°/sec.)
- (general assembly AC standard version dwg. [52070403](#) for Light alloy and  
dwg. [52070404](#) for Bronze execution)
- (general assembly DC truck version dwg. [52070408](#) for Light alloy and  
dwg. [52070409](#) for Bronze execution)

### Hydraulic remote controlled A3-Hy monitor

- operation: hydraulic: with hydraulic motors  
manual: handwheels operation with selector device for hydraulic remote operation  
local manual operation
  - locking devices: locking in all positions for horizontal and vertical movement with self-arresting worm gears
  - rotating devices: horizontal and vertical movements on self-lubricating Lubrifon slide bearings and teflon rings
  - lubrication: greasing nipples for horizontal and vertical movement
  - rotation: hydraulic: 340° (adjustable)  
manual: 340°
  - elevation: hydraulic: +75° / -55° (adjustable)  
manual: +75° / -55°
  - hydraulic limit switches: rotation max range 340° (adjustable)  
elevation max range +75° / -55° (adjustable)
  - remote position control : with potentiometer (optional)
  - speed for hydraulic operation: rotation: ca. 180° in 24 sec. (ca. 7,5°/sec.)  
elevation: ca. 90° in 12 sec. (ca. 7,5°/sec.)
- (general assembly dwg [52090402](#) Light alloy execution)

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