

Overview A4

The Caccialanza & C. **A4 type monitors** are high performance units designed to operate in extremely hard conditions and in aggressive environments (refineries, chemical industries, offshore, etc.), where high foam / water flowrates and long ranges of jet are required.



The A4 type monitors are available in following executions:

- manually handlever operated (A4)
- manually handwheels operated (AS4)
- remote or cab manually handwheels operated (ASC4)
- automatic oscillating (water pressure operated) (AU4)
- electric remote controlled (A4-EI)
- hydraulic remote controlled (A4-Hy)

The A4 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
- with double outlet for foam/water double pipe operation with synchronized butterfly valves
- with double outlet for Twin-agent dry powder/foam double pipe operation

Main Technical Data of the A4 type monitors (for all executions):

- flowrate range: 2.000 - 6.000 lt/min
- pressure loss:
 - 0,2 bar at flowrate 2.000 lt/min
 - 0,3 bar at flowrate 2.400 lt/min
 - 0,6 bar at flowrate 3.000 lt/min
 - 1,0 bar at flowrate 4.000 lt/min
 - 1,6 bar at flowrate 5.000 lt/min
 - 2,2 bar at flowrate 6.000 lt/min
- max. operating pressure: 16 bar
- inlet flange: 4" or 6" ANSI 150 lbs RF
DN 100 or DN 150 DIN PN 16
- body material: seawater resistant light alloy G-Al Si 9
bronze Bz N 7



Technical data of the A4 type monitors in the different executions:

Handlever operated A4 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: +70° / -60°

(general assembly dwg. **52280001** for Light alloy and dwg. **52280002** for Bronze execution)

Handwheels operated AS4 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 ball bearings
- lubrication: greasing nipples for horizontal and vertical movement
- rotation: 360° endless
- elevation: +75° / -60°

(general assembly dwg. **52290701** for Light alloy and dwg. **52290702** for Bronze execution)

(general assembly special version for twin agent model DA dwg. **52850002**)

(general assembly special version for double pipe model VV dwg. **52280102**)

Remote or Cab handwheels operated ASC4 monitor

- operation: manual handwheels operation and transmission rods
- locking devices: locking in all positions for horizontal and vertical movement with self-arresting worm gears
- rotating devices: horizontal and vertical movements on ball bearings
- lubrication: greasing nipples for horizontal and vertical movement
- rotation: 360° endless
- elevation: +80° / -60°

(general assembly dwg. **52290698** for Light alloy and dwg. **52290699** for Bronze execution)



Automatic oscillating AU4 monitor

- operation: automatic: horizontal oscillating movement by means of water piston in stainless steel, 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: +70° / -45°
- max. oscillating speed (at 8 bar): ca. 8x180° oscillating movements per minute (ca. 24°/sec.)

(general assembly dwg. 523300002 Light alloy execution)

Electric remote controlled A4-EI monitor

- operation: electric: with electric multiturn 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 ball bearings
- lubrication: greasing nipples for horizontal and vertical movement
- rotation: electric: 360° (adjustable) manual: 360°
- elevation: electric: +75° / -60° (adjustable) manual: +75° / -60°
- electric limit switches: rotation max range 360° (adjustable) elevation max range +75° / -60° (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 24 sec. (ca. 7,5°/sec.) elevation: ca. 90° in 18 sec. (ca. 5°/sec.)

(general assembly AC standard version dwg. **52310601** for Light alloy and dwg. **52310635** for Bronze execution)

(general assembly DC truck version dwg. **52310645** for Light alloy and dwg. **52310646** for Bronze execution)

(general assembly special version for twin agent model DA dwg. **52310702** and **52850001**)

(general assembly special version for double pipe model VV dwg. **52280101**)

Hydraulic remote controlled A4-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 ball bearings
- lubrication: greasing nipples for horizontal and vertical movement
- rotation: hydraulic: 340° (adjustable)
 manual: 340°
- elevation: hydraulic: +75° / -60° (adjustable)
 manual: +75° / -60°
- hydraulic limit switches: rotation max range 340° (adjustable)
 elevation max range +75° / -60° (adjustable)
- remote position control : with potentiometer (optionally)
- 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. **52320401** Light alloy execution)

(general assembly special version for 360° continuous rotation dwg. **52320501**)