



Overview Powder and Twin Agent (powder and foam mix) Monitors

The Caccialanza & C. **powder monitors** can be supplied as powder only execution (A3 PL monitor family) as well as in two guns execution for the independent operation with powder or foam premix (A4DA monitor family).

The Caccialanza & C. **A3PL 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 A3PL type monitors are available in following executions:

- manually handlever operated (A3PL)
- manually handwheels operated (AS3PL)
- electric remote controlled (A3PL-EI)
- hydraulic remote controlled (A3PL-Hy)

The A3 type monitors can be equipped with following powder pipes:

- stainless steel powder pipe 20 kg./ sec
- stainless steel powder pipe 40 kg./ sec

Main Technical Data of the A3PL type monitors (for all executions):

- flowrate range: 20 – 40 kg./ sec.
- pressure loss: 0,4 bar at flowrate 40 kg./ sec.
- max. operating pressure: 12 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 A3PL type monitors in the different executions:

Handlever operated A3PL 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. [52180910](#))

Handwheels operated AS3PL 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. [52180920](#))



Electric remote controlled A3PL-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 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: thermostwitches,
- 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 dwg [52180940](#))



Hydraulic remote controlled A3PL-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 52180970)



The Caccialanza & C. **A4DA 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 A4DA type monitors are available in following executions:

- manually handlever operated (A4DA)
- manually handwheels operated (AS4DA)
- electric remote controlled (A4DA-EI)
- hydraulic remote controlled (A4DA-Hy)

The A4DA type monitors can be equipped with following water- and foam pipes and nozzles:

- combined foam/water pipe
- self priming combined foam/water pipe

The A4DA type monitors can be equipped with following powder pipes:

- stainless steel powder pipe 20 kg./ sec
- stainless steel powder pipe 40 kg./ sec

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

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|--|--|
| - flowrate range(foam operation): | 2.000 - 6.000 lt/min |
| - pressure loss(foam operation): | 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(foam operation): | 16 bar |
| - flowrate range(powder operation): | 20 – 40 kg./ sec. |
| - pressure loss(powder operation): | 0,4 bar at flowrate 40 kg./ sec. |
| - max. operating pressure(powder operation): | 12 bar |
| - inlet flange: | 4" or 6" ANSI 150 lbs RF
DN 100 or DN 150 DIN PN 16 |
| - body material: | seawater resistant light alloy
EN AB 42000-Al Si 7 MgTA
Bronze B ZN 7 |



Technical data of the A4DA type monitors in the different executions:

Handlever operated A4DA 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. 52859906)

Handwheels operated AS4DA 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. 52859905)

Electric remote controlled A4DA-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 dwg. 52859908)



Hydraulic remote controlled A4DA-Hy monitor

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|----------------------------------|------------|---|
| - 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. 52859907)

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