

The Caccialanza & C. <u>powder monitors</u> 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. <u>A3PL type monitors</u> 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-El)
- hydraulic remote controlled (A3PL-Hy)

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

- stainless steel powder pipe 20 kg./ sec

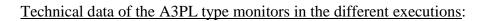
- stainless steel powder pipe 40 kg./ sec

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

- flowrate range:
- pressure loss:
- max. operating pressure:
- inlet flange:
- body material:

20 – 40 kg./ sec. 0,4 bar at flowrate 40 kg./ sec. 12 bar 4" or 3" ANSI 150 lbs RF DN 100 or DN 80 DIN PN 16 seawater resistent light alloy EN AB 42000-Al Si 7 MgTA Bronze B ZN 7





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

mana meens operated most i	
- 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)

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Electric remote controlled A3PL-El monitor

- operation:	electric: with electric multiturn actuators IP 67,	
operation.	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	
6	movement with self-arresting worm gears	
- rotating devices:	horizontal and vertical movements on self-lubricating	
8	Lubrifon slide bearings and teflon rings	
- lubrication:	greasing nipples for horizontal and vertical movement	
- rotation:	electric: 360° (adjustable)	
	manual: 360°	
- elevation:	electric: $+75^{\circ}/-55^{\circ}$ (adjustable)	
	manual: $+75^{\circ} / -55^{\circ}$	
- electric limit switches:	rotation max range 360° (adjustable)	
	elevation max range $+75^{\circ}$ / -55° (adjustable)	
- mechanical protection:	torque switches (overload protection) for horizontal and	
r in r	vertical movement	
- motors protection:	thermoswitches,	
- remote position control:	with potentiometerr (optional)	
- speed for electric operation:	rotation: ca. 180° in 26 sec. (ca. 7°/sec.)	
1 I	elevation: ca. 90° in 12 sec. (ca. 7,5°/sec.)	

(general assembly dwg 52180940)

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Hydraulic remote controlled A3PL-Hy monitor

- operation:	hydraulic: manual:	with hydraulic motors handwheels operation with selector
	manual.	device for hydraulic remote operation
		local manual operation
- locking devices:	•	positions for horizontal and vertical
	movement w	ith self-arresting worm gears
- rotating devices:	horizontal and vertical movements on self-lubricating	
	Lubrifon slide bearings and teflon rings	
- lubrication:	greasing nipp	oles 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 $+75^{\circ}$ / -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 A4DA type monitors are available in following executions:

- manually handlever operated (A4DA)
- manually handwheels operated (AS4DA)
- electric remote controlled (A4DA-El)
- 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:

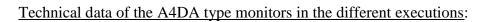
- stainless steel powder pipe 20 kg./ sec
- stainless steel powder pipe 40 kg./ sec

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

- flowrate range(foam operation):
- pressure loss(foam operation):
- max. operating pressure(foam operation):
- flowrate range(powder operation):
- pressure loss(powder operation):
- max. operating pressure(powder operation):
- inlet flange:
- body material:

2.000 - 6.000 lt/min 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 16 bar 20 - 40 kg./ sec. 0,4 bar at flowrate 40 kg./ sec. 12 bar 4" or 6" ANSI 150 lbs RF DN 100 or DN 150 DIN PN 16 seawater resistent light alloy EN AB 42000-Al Si 7 MgTA Bronze B ZN 7





Handlever o	perated A4DA monitor

Tundle ver operated TTDTT monitor			
- operation:	manual handlever operation		
- locking devices:	locking in all positions for horizontal and vertical		
C	movement		
- rotating devices:	horizontal and vertical movements on self-lubricating		
- Totating devices.	0		
1.1.4.7	Lubrifon slide bearings and teflon rings		
- lubrication:	greasing nipples for horizontal and vertical movement		
- rotation:	360° endless		
- elevation:	+70° / -60°		
(general assembly dwg. 528599	906)		
Handwhaals operated ASADA mon	itor		
Handwheels operated AS4DA mon			
- 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°		
	+75 7 -00		
Electric remote controlled A4DA-E			
- operation:	electric: with electric multiturn actuators IP 67, motors 400V/3 Ph/50 Hz, 0,37 kW, (optionally Ex-proof Eexd IIC T4) 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		
	0		
- lubrication:	greasing nipples for horizontal and vertical movement		
- rotation:	electric: 360° (adjustable)		
	manual: 360°		
- elevation:	electric: $+75^{\circ} / -60^{\circ}$ (adjustable)		
	manual: $+75^{\circ} / -60^{\circ}$		
- electric limit switches:	rotation max range 360° (adjustable)		
credure mine switches.			
	elevation max range $+75^{\circ}$ / -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.)		
- I	elevation: ca. 90° in 18 sec. (ca. 5° /sec.)		

(general assembly dwg. 52859908)

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Hydraulic remote controlled A4DA-Hy monitor

If yuruune remote controlled A+D1	<u>I Hy monitor</u>	
- 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 w	ith 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:	$+75^{\circ}$ / -60° (adjustable)
	manual:	+75° / -60°
- hydraulic limit switches:	rotation max range 340° (adjustable)	
-	elevation ma	x range $+75^{\circ}$ / -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)

Caccialanza & C. reserves the right to change or modify without previous notice any data or specification due to changes or modification in order to improve the products presented.