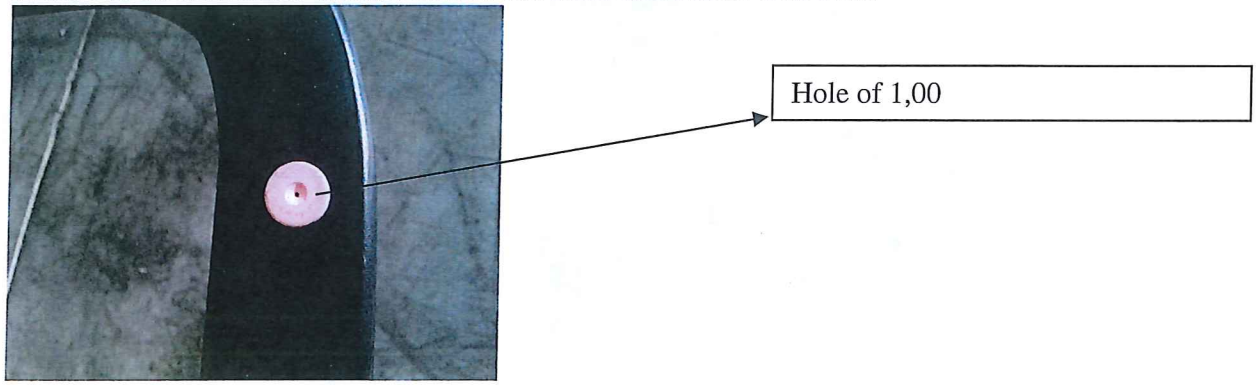
HOW TO KNOW THE FLOW RATE ON THE PNEUS SYSTEM (VENTURI)

As we well know the CIMA sprayers have the flow rate calibration but after a discussion with our technical department and the check on the caliber of CIMA, we consider our solution the best and precise one.

In fact the flow rate on our sprayers are determined from the hole on the nozzle and it allows to the operator a uniform spray at the flow rate he desire.
Picture of the hole of the ceramic nozzle mounted on PNEUS SYSTEM



i.e. this is a standard 1,00 hole . to know how much water we spray on field you consider the spray label hereby

HOLE Ø (mm)	DISC Ø (mm)	COD		l/min (Portata) l/min (Flow rate) 1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	15 bar	20 bar
0,8	15	HP15008	FAN FLOW	0,48	0,67	0,83	0,95	1,07	1,17	1,26	1,35	1,43	1,51	1,84	2,13
	18	HP18008													
	30	HP30008	OPPOSITE FLOW	0,38	0,53	0,65	0,75	0,84	0,92	0,99	1,06	1,13	1,19	1,46	1,68
1,0	15	HP15010	FAN FLOW	0,62	0,86	1,08	1,24	1,39	1,52	1,65	1,76	1,87	1,97	2,41	2,78
	18	HP18010													
	30	HP30010	OPPOSITE FLOW	0,48	0,68	0,84	0,97	1,08	1,18	1,28	1,37	1,45	1,53	1,87	2,16
1,2	15	HP15012	FAN FLOW	1,02	1,45	1,77	2,04	2,29	2,50	2,71	2,89	3,07	3,23	3,96	4,57
	18	HP18012													
	30	HP30012	OPPOSITE FLOW	0,80	1,13	1,39	1,60	1,79	1,96	2,12	2,27	2,41	2,54	3,11	3,59
1,5	15	HP15015	FAN FLOW	1,46	2,07	2,54	2,93	3,27	3,59	3,87	4,14	4,39	4,63	5,67	6,55
	18	HP18015													
	30	HP30015	OPPOSITE FLOW	1,01	1,43	1,75	2,03	2,26	2,48	2,68	2,86	3,04	3,20	3,92	4,53
1,8	15	HP15018	FAN FLOW	2,20	3,11	3,82	4,41	4,93	5,40	5,83	6,23	6,61	6,97	8,53	9,85
	18	HP18018													
	30	HP30018	OPPOSITE FLOW	1,57	2,22	2,73	3,15	3,52	3,85	4,16	4,45	4,72	4,98	6,09	7,04
2,0	15	HP15020	FAN FLOW	2,57	3,64	4,46	5,14	5,75	6,30	6,81	7,27	7,72	8,13	9,96	11,50
	18	HP18020													
	30	HP30020		1,76	2,49	3,05	3,52	3,94	4,31	4,66	4,98	5,28	5,57	6,82	7,88

As you can see the flow rate lt/min that a nozzle, of 1,00 hole dimension at 4 bar, sprays is constantly 1,24 lt/min. This is only possibility to be sure about the flow rate.
Even CIMA is using the nozzle inside and the flow rate is determined by the hole of the nozzles.

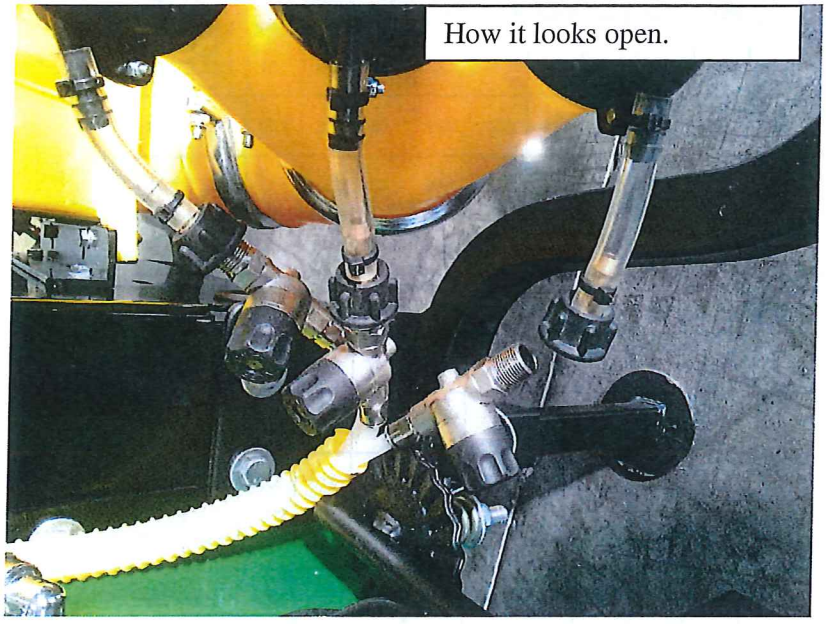
HOW TO CHANGE THE NOZZLES INSIDE

1st step

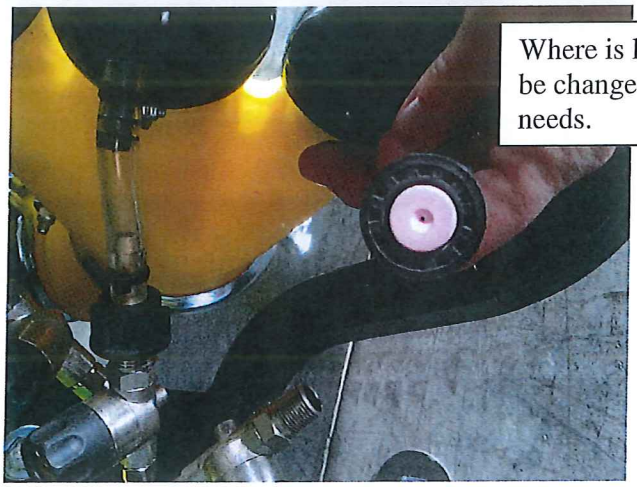
Taps to open and close the spray nozzles. Not water is coming out when closed

Place where is located the ceramic nozzles.

2 step



How it looks open.



Where is located the nozzle that can be changed based on customer needs.