

POOL FILTRATION 01/25

# ZPM - ZETA POTENTIAL MIXER 30

ZPM stands for Zeta Potential Mixer and is a static mixer for the cavitation of water. Manufactured in stainless steel 1.4571, the cavitation reactions help to disinfect water for a lifetime.



## ✓ Technical features

### Upstream of the filter — optimize coagulation and flocculation:

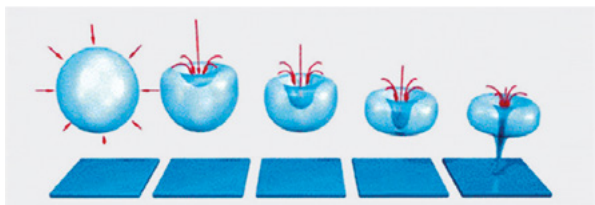
The ZPM amplifies the coagulation and flocculation reactions for the conversion and precipitation of dissolved components into small particles. The cavitation reactions provide the perfect mixing and turbulent environment necessary for coagulation using APF and NoPhos. The ZPM neutralises the electrical charge (Zeta Potential) on dissolved chemicals and small particles to make some positively and some negatively charged. The opposite charges attract and this causes coagulation and flocculation. As the electrical potential drops to neutral, the redox oxidation potential of the water increases by up to 100 mV, effectively the water is beginning to disinfect itself without the use of any chemicals.

Choose the size of the ZPM according to the pressure loss. Pressure loss should be between 1 and 2 mWS (0,1 - 0,2 bar).

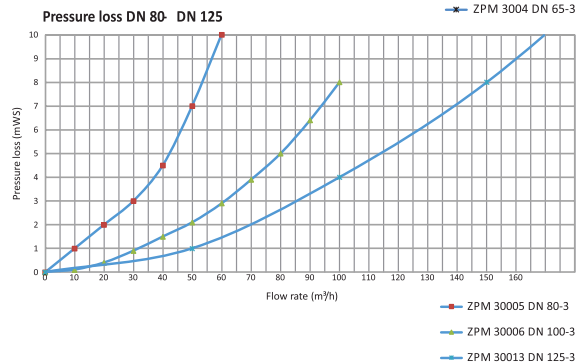
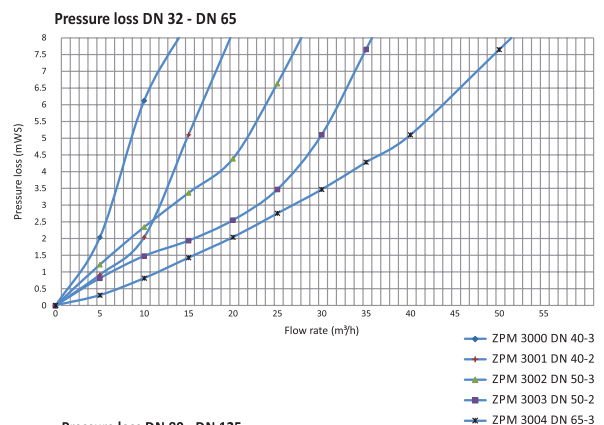
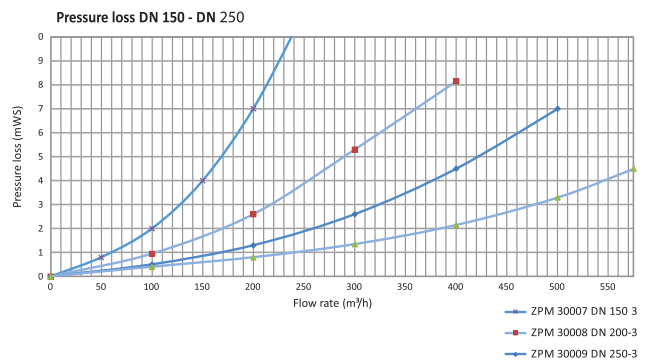
### Downstream of the filter - mechanical disinfection:

The cavitation produce nano-bubbles that disinfect the water. The higher the pressure loss, the better the disinfection performance. Some pathogens (e.g. Cryptosporidium) as well as biofilm protected colonies of bacterium floc are extremely resistant to chlorine. The ZPM breaks these colonies or floc apart and allows chlorine to disinfect the water before it reaches the pool

Choose the size of the ZPM according to the pressure loss. Pressure loss should be between 1 and 5 mWS (0,1 - 0,5 bar)



Imploding nano-bubbles disinfecting water



POOL FILTRATION

## Models

PRODUCT CODE	SIZE	NO. OF FINNS	CONNECTIONS	LENGTH mm	PRESSURE LOSS m <sup>3</sup> /h			PACKING	WEIGHT kg	VOLUME m <sup>3</sup>
					2mWS 0.2 bar	3mWS 0.3 bar	5mWS 0.5 bar			
30000	DN 40	3	1" ET	235	5	6.5	8.5	1	0.75	0.0009
30001	DN 40	2	1½" ET	195	10	12	15	1	0.75	0.0008
30002	DN 50	3	2" ET	300	8.5	13	21.5	1	1.2	0.0014
30003	DN 50	2	2" ET	240	15	23	30	1	1.2	0.0012
30004	DN 65	3	2½" ET	332	20	27	40	1	2.8	0.0023
30005	DN 80	3	3" FL	419.6	20	30	45	1	11.2	0.0036
30006	DN 100	3	4" FL	519.6	50	60	80	1	14.4	0.0079
30013	DN 125	3	5" FL	640	70	85	115	1	21	0.0259
30007	DN 150	3	6" FL	759.6	100	125	170	1	26.8	0.0148
30008	DN 200	3	8" FL	979.6	175	220	290	1	41.2	0.0576
30009	DN 250	3	10" FL	1219.6	260	325	420	1	58.6	0.0956



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