

ZPM

Product ID:

Name:	Dryden Aqua ZPM - Zeta Potential Mixer
Usage:	Homogenize injected coagulants and flocculants during contact filtration. Enhance water oxidation
Unique Features:	Cavitates the water and increases oxidation potential. Two injection points for liquids and gases; flanges directly into the pipework



Main Benefits:

- The only cavitating static mixer available in the market
- Increase oxidation potential by up to 100 mv, therefore initiating disinfection without chemicals
- Injection point for coagulants, flocculants, chlorine, ozone, or any gas
- Improves coagulation/flocculation by at least 30%
- 100% 316 grade stainless steel, or MDPE plastic & titanium for marine applications
- Flanges directly into the pipework

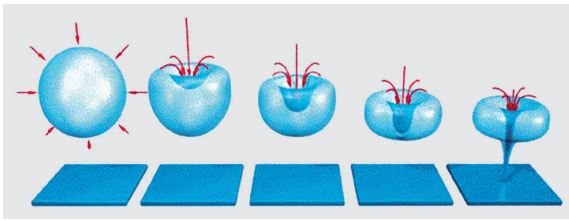
About Dryden Aqua ZPM:

Manufactured by Dryden Aqua, the ZPM is a cavitating static mixer used for the injection of coagulants and flocculants prior to media filtration by sand or Dryden Aqua AFM® (Activated Filter Media), for potable water as well as wastewater

It cavitates the water and increases the oxidation potential by over 100 mv with no addition of chemicals. The cavitation perfectly homogenizes the dosed chemical into the water. ZPM neutralizes the electrical charge (zeta potential) on the dissolved chemical & colloids, and therefore enhances the coagulation / flocculation process.

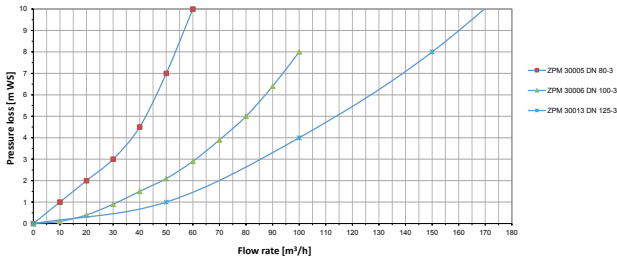


ZPM Working Mechanism

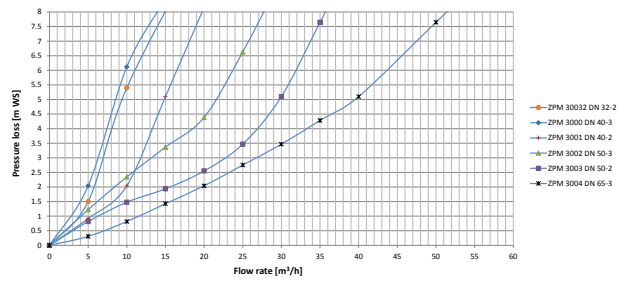


Nano-bubble implosion formed by ZPM

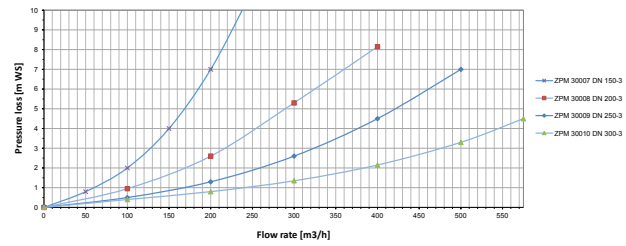
Pressure loss DN 80 - DN 125



Pressure loss DN 32 - DN 65



Pressure loss DN 150 - DN 300



ZPM Product Sheet

article	size / no of fins / conn.	length / weight	Pressure loss		
			2 mWS 0.2 bar	3 mWS 0.3 bar	5 mWS 0.5 bar
30032	ZPM DN 32-2 / 1" ET	140 mm / 0.35 kg	6 m ³ /h	7 m ³ /h	9.5 m ³ /h
30000	ZPM DN 40-3 / 1" ET	235 mm / 0.75 kg	5 m ³ /h	6.5 m ³ /h	8.5 m ³ /h
30001	ZPM DN 40-2 / 1½" ET	195 mm / 0.75 kg	10 m ³ /h	12 m ³ /h	15 m ³ /h
30002	ZPM DN 50-3 / 2" ET	300 mm / 1.2 kg	8.5 m ³ /h	13 m ³ /h	21.5 m ³ /h
30003	ZPM DN 50-2 / 2" ET	240 mm / 1.2 kg	15 m ³ /h	23 m ³ /h	30 m ³ /h
30004	ZPM DN 65-3 / 2½" ET	332 mm / 2.8 kg	20 m ³ /h	27 m ³ /h	40 m ³ /h
30005	ZPM DN 80-3 / 3" FL	419.6 mm / 11.2 kg	20 m ³ /h	30 m ³ /h	45 m ³ /h
30006	ZPM DN 100-3 / 4" FL	519.6 mm / 14.4 kg	50 m ³ /h	60 m ³ /h	80 m ³ /h
30013	ZPM DN 125-3 / 5" FL	640 mm / 21.0 kg	70 m ³ /h	85 m ³ /h	115 m ³ /h
30007	ZPM DN 150-3 / 6" FL	759.6 mm / 26.8 kg	100 m ³ /h	125 m ³ /h	170 m ³ /h
30008	ZPM DN 200-3 / 8" FL	979.6 mm / 41.2 kg	175 m ³ /h	220 m ³ /h	290 m ³ /h
30009	ZPM DN 250-3 / 10" FL	1219.6 mm / 58.6 kg	260 m ³ /h	325 m ³ /h	420 m ³ /h
30010	ZPM DN 300-3 / 12" FL	1496 mm / 77.2 kg	385 m ³ /h	475 m ³ /h	500 m ³ /h

