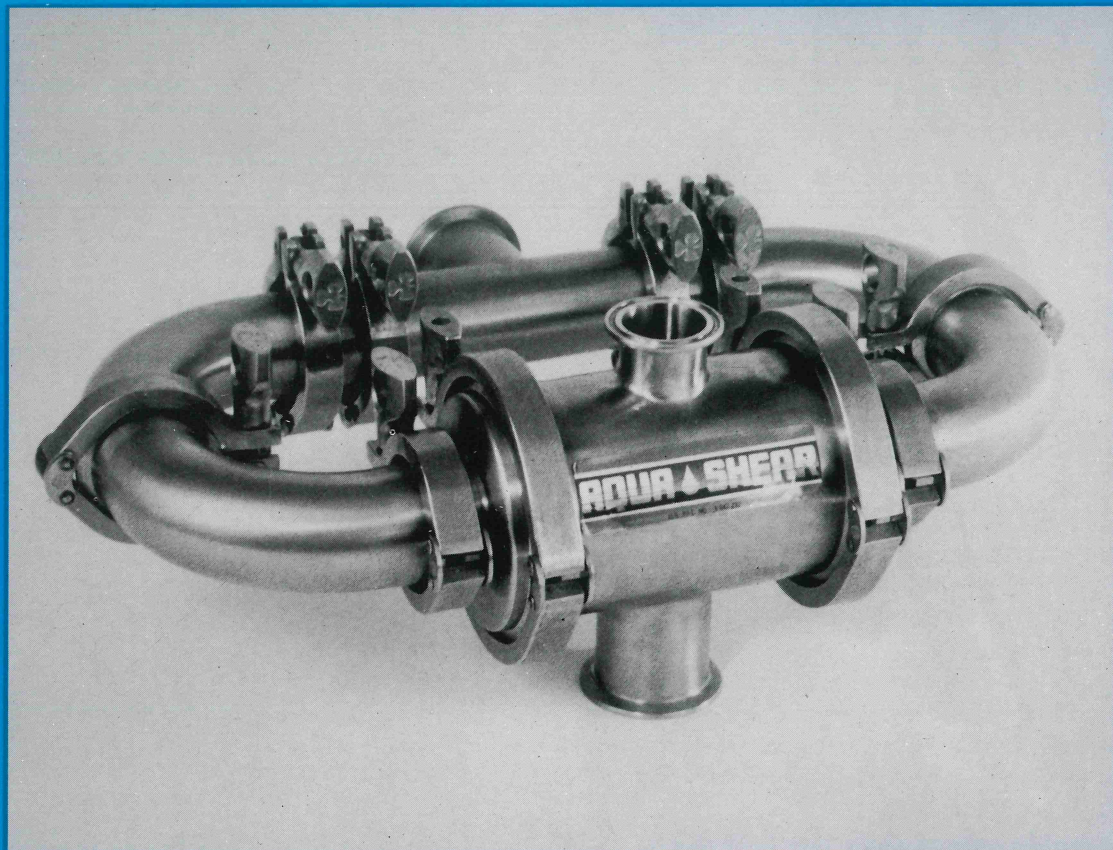
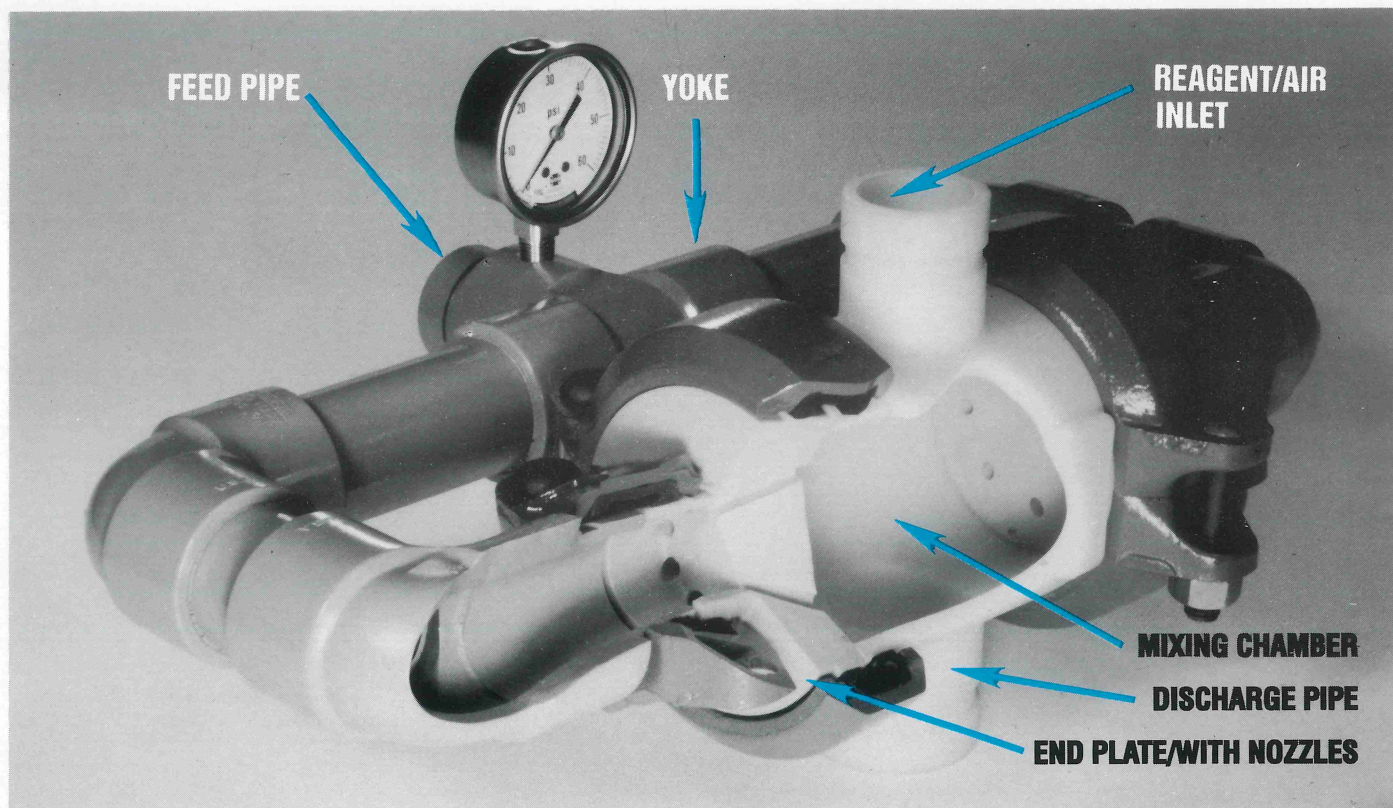


AQUA SHEAR



A *NEW* APPROACH TO
CONTINUOUS INSTANT MIXING

AQUA-SHEAR

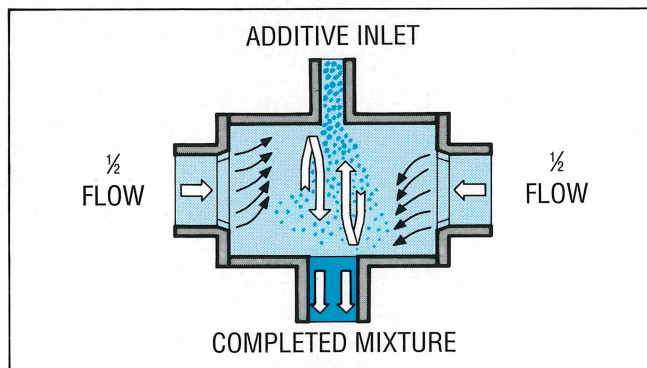


HOW AQUA-SHEAR INSURES COMPLETE AND INSTANTANEOUS MIXING

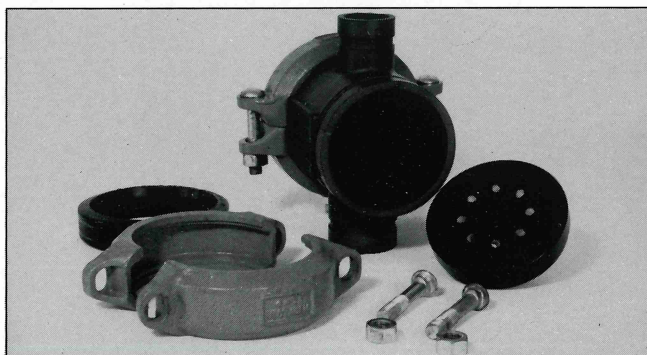
AQUA-SHEAR divides the primary solvent fluid into two equal streams by the use of a yoke. Each stream is directed into the mixing chamber through the end plates containing nozzles. These nozzles are precisely spaced, sized and angled for specific applications and flow rates. The opposing streams collide in the center of the mixing chamber and generate intense concentrated turbulence. The result is instantaneous dispersion and wetting of each and every additive particle, ensuring a smooth and consistent mixture.

The mixed solution flows through the discharge pipe by gravity. The free fall of the discharged mixture creates a negative pressure at the inlet. This allows the AQUA-SHEAR to draw in additives and eliminates dust problems and the need for pressurized feeding.

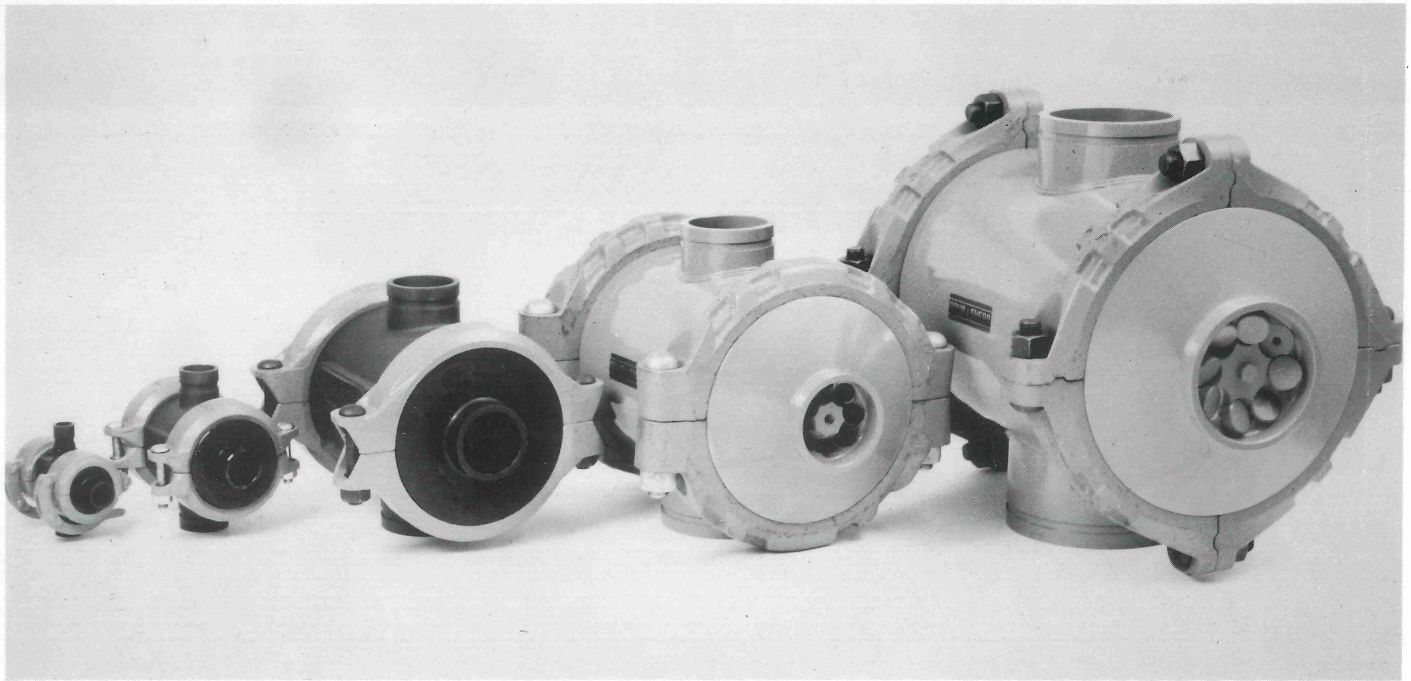
AQUA-SHEAR is recommended for mixing solids, liquids and gases with a variety of primary fluids, and works with in continuous and batch processes.



Opposing streams collide producing fast and thorough mixing.



With few parts, none of which move, AQUA-SHEAR is easy to maintain.



APPLICATIONS

AQUA-SHEAR provides instantaneous mixing of the additive at the point of maximum fluid turbulence within the mixing chamber. This prevents clogging of the nozzles and permits generation of high viscosity end-product solutions.

It is not necessary to form a "slurry" before introducing powders into the solvent liquid. Mixing is virtually instantaneous and confined to the region of maximum concentrated turbulence.

A low pressure (sub atmospheric) zone is inherent at the point of the introduction of the additive, resulting in very limited to virtually no dust. Frictional losses are minimal and power is efficiently utilized to produce concentrated turbulence.

With no moving parts and simplified construction, the AQUA-SHEAR mixer reduces maintenance and facilitates easy cleaning.

STARCH MIXING

Eliminates dusting and "Jelly Bean" or "Fish Eye" formation

WATER TREATMENT

Optimizes additive activity and promotes aeration

ACID MINE WATER TREATMENT

Increases solubility rate, reduces reagent consumption

pH CONTROL

Instantaneous pH adjustment with no time lag

ADHESIVE PROCESSING

Prevents viscosity-generated pressure losses and clogging problems

DRILLING FLUID PREPARATION

Reduces the amount of additive required by improved "wetting" efficiency

FOOD AND BEVERAGE PROCESSING

3A Authorized Sanitary Construction

AERATION AND GASIFICATION

Provides wide range modulation control

CHEMICAL PROCESSING

Improves mixing efficiency

FEATURES

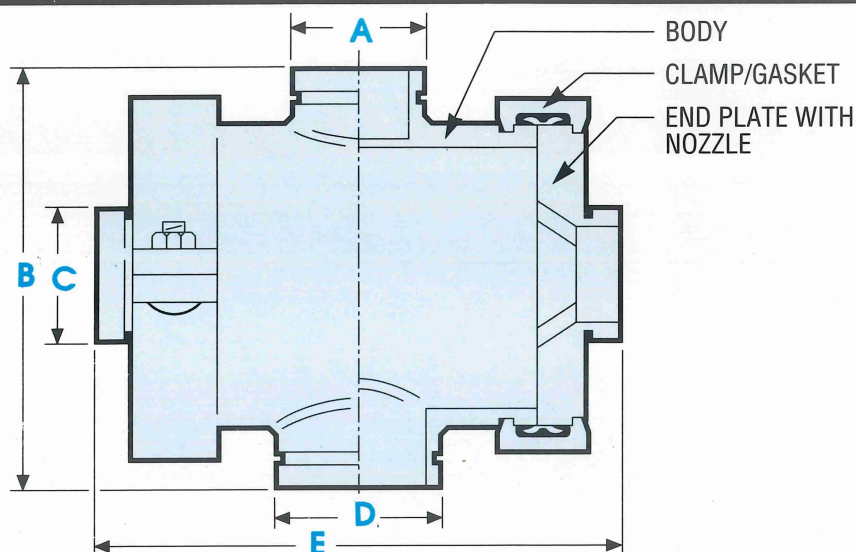
- NON-ELECTRIC
- NO MOVING PARTS
- SIMPLE AND RUGGED CONSTRUCTION
- FAST, COMPLETE MIXING
- EASY TO MAINTAIN
- NEEDS ONLY 3 PSI MINIMUM TO OPERATE
- PARTIAL AERATION IF NEEDED
- LOW OPERATING COST
- NON-CLOGGING DESIGN
- SLURRY PREPARATION ELIMINATED, ADD POWDERS DIRECT
- WIDE PRESSURE AND TEMPERATURE RANGE
- MIXING VERSATILITY: SOLID/LIQUID, LIQUID/LIQUID, GAS/LIQUID
- SANITARY CONSTRUCTION AVAILABLE **

SPECIFICATIONS

- CAPACITIES FROM 2 TO 2000 GPM
- PRESSURES FROM 3 TO 500 PSIG
- TEMPERATURES TO 300° F

** Authorized by 3A Sanitary Standards for Continuous Blenders Number 35-00.

TECHNICAL SPECIFICATIONS



SERIES	DIMENSIONS - PLASTIC MODELS *					CAPACITY GAL./MIN.
	A	B	C	D	E	
200	¾" PIPE	5 ⅝"	1" PIPE	1" PIPE	7 ¼"	5 - 15 +
300	1 ¼" PIPE	7 ¼"	1 ¼" PIPE	1 ½" PIPE	8 ⅜"	11 - 38 +
400	1 ½" PIPE	8"	1 ½" PIPE	2" PIPE	9 ¼"	20 - 75 +
600	2 ½" PIPE	10 ¼"	2 ½" PIPE	3" PIPE	14 ¼"	47 - 180 +
800	3" PIPE	12"	3" PIPE	4" PIPE	15 ½"	100 - 350 +
1000	4" PIPE	15"	4" PIPE	6" PIPE	22"	350 - 700 +
1400	6" PIPE	20"	6" PIPE	8" PIPE	26 ½"	800 - 1400 +
SERIES	DIMENSIONS - CARBON & 304 STAINLESS STEEL *					CAPACITY GAL./MIN.
	A	B	C	D	E	
200	1" PIPE	5 ⅝"	1" PIPE	1" PIPE	7 ¼"	5 - 15 +
300	1 ¼" PIPE	7 ¼"	1 ¼" PIPE	1 ½" PIPE	8 ⅜"	11 - 38 +
400	1 ½" PIPE	7 ¾"	1 ½" PIPE	2" PIPE	10"	20 - 75 +
600	2 ½" PIPE	10 ¼"	2 ½" PIPE	3" PIPE	14 ¼"	47 - 180 +
800	4" PIPE	12"	4" PIPE	4" PIPE	16 ¼"	100 - 350 +
1000	6" PIPE	15"	6" PIPE	6" PIPE	20 ½"	350 - 700 +
1400	8" PIPE	19"	8" PIPE	8" PIPE	27 ½"	800 - 1400 +
SERIES	MATERIALS OF CONSTRUCTION **					SANITARY CONST. 3-A
	304 STAINLESS STL.	POLYURETHANE	CPVC	CARBON STEEL	PVC	
200	X	X	X	X	X	X
300	X	X	X	X	X	
400	X	X	X	X	X	X
600	X		X	X	X	
800	X	X	X	X	X	
1000	X		X	X	X	
1400	X		X	X	X	

* Dimensions are approximate. Capacities are for vertical discharge to atmosphere & may be significantly higher for in-line operations.
A variety of feed & discharge fittings are available.

** Optional materials are available inclusive of Polypropylene, UHMW Polyethylene, Kynar, 316 Stainless Steel

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