Static Mixer

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EWATER Water Treatment Co., Ltd.
JIEMING International Trading FZCO

What is Static Mixer?

A static mixer is a precision engineered device for the continuous mixing of fluid materials, without moving components.Normally the fluids to be mixed are liquid, but static mixers can also be used to mix gas streams, disperse gas into liquid or blend immiscible liquids. The energy needed for mixing comes from a loss in pressure as fluids flow through the static mixer.

Classification

- **Liquid-liquid mixing**
- **Liquid-gas mixing**
- **Liquid-solid mixing**
- **Gas-gas mixing**
- **Enhancing heat transfer**







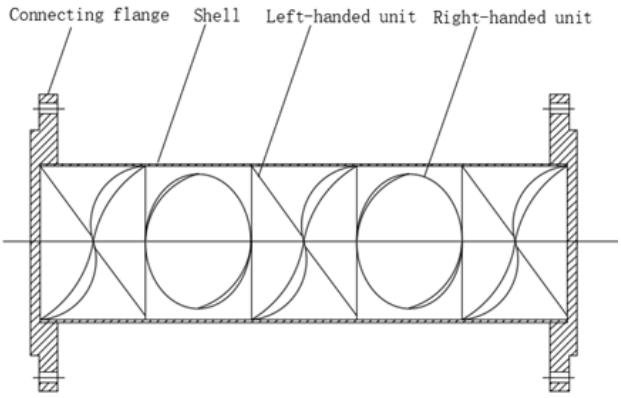
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SK Series

The SK static mixer is also called a single spiral static mixer. Its unit is a spiral plate twisted 180 degrees or 270 degrees, and the adjacent spirals are rotated to the right when installed in the pipe. The SK static mixer is suitable for mixing processes that are not too demanding and mixing-related unit operation processes, and can also be used to enhance heat transfer. Among various types of static mixers, the SK type is the least prone to blockage, so it is suitable for handling dirty materials, and is especially suitable for high-viscosity media with a small flow rate and impurities or a viscosity of ≤106 centipoise.



Model	Dg (Nominal Diameter, mm)	Dh (Unit Hydraulic Diameter, mm)	L (Standard Length, mm)	Q (Flowrate, m^3/h)
EW-SK-5/10	10	5	150	0.15-0.30
EW-SK-7.5/15	15	7.5	300	0.3-0.6
EW-SK-10/20	20	10	500	0.6-1.2
EW-SK-12.5/25	25	12.5	500	0.9-1.8
EW-SK-20/40	40	20	500	2.2-4.5
EW-SK-25/50	50	25	500	3.5-7.0
EW-SK-40/80	80	40	1000	9-18
EW-SK-50/100	100	50	1000	14-28
EW-SK-75/150	150	75	1000	31-64
EW-SK-100/200	200	100	1000	56-110
EW-SK-125/250	250	125	1000	88-177
EW-SK-150/300	300	150	1000	127-255
EW-SK-175/350	350	175	1000	173-346
EW-SK-200/400	400	200	1000	226-452
EW-SK-250/500	500	250	1000	353-706



Structure Drawing

Applications: Chemicals, petroleum, pharmaceuticals, food, fine chemicals, plastic environmental protection, synthetic fibers, injection molding, color matching, papermaking, pulp and chlorine mixing, solvent deasphalting, acid-base neutralization, asphalt, oil blending, industrial naphthalene dephenol, liquid hydrocarbon desulfurization Mixing, color matching and heat transfer of alcohol and polymer materials.

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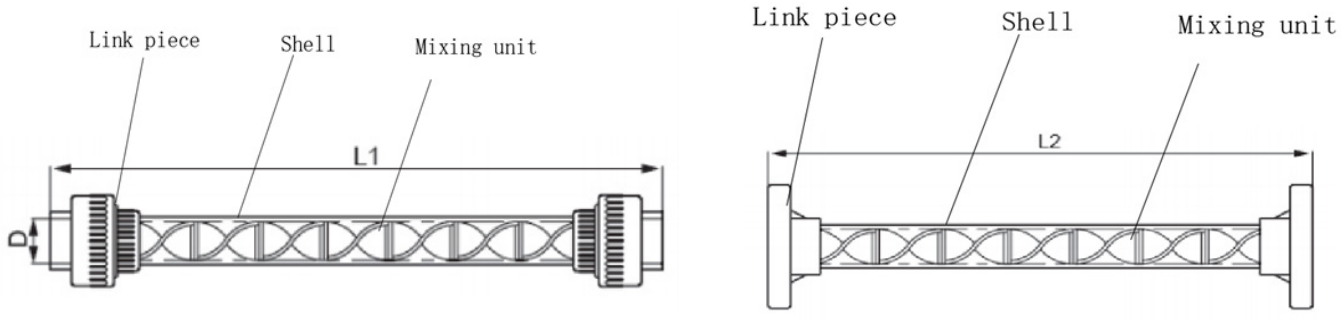
SK686 Series

This series is ideal for instantaneous mixing of treated water and various medicaments. It has a very good effect on the addition of various coagulants, coagulants, ozone, liquid chlorine and acid-base neutralization, and gas-water mixing systems.

This series has characteristics of fast and efficient mixing, simple structure, energy saving, and small size. The water flow passes through 6 to 8 mixing units and crosses each other to achieve a good mixing effect instantly, and the mixing efficiency is as high as 90-95%.



Model	DN (Nominal Diameter, mm)	D (Outer Diameter, mm)	L1 (Standard Length, mm)	L2 (Standard Length, mm)	Q (Flowrate, m^3/h)	Connetion Type
EW-SK-68615	15	20	265	367	0.4-1	Socket, Thread, Flange
EW-SK-68620	20	25	335	385	0.6-1.8	Socket, Thread, Flange
EW-SK-68625	25	32	430	485	1-3.2	Socket, Thread, Flange
EW-SK-68632	32	40	505	580	1.4-6	Socket, Thread, Flange
EW-SK-68640	40	50	585	665	2.2-10	Socket, Thread, Flange
EW-SK-68650	50	63	717	807	3.5-20	Socket, Thread, Flange
EW-SK-68665	65	75	1000	935	10-60	Socket, Flange
EW-SK-68680	80	90	1018	872	15-80	Socket, Flange
EW-SK-686100	100	110	990	995	30-120	Socket, Flange
EW-SK-686150	150	160	955	962	90-190	Socket, Flange
EW-SK-686200	200	225	1020	912	150-340	Socket, Flange



Structure Drawing

Applications: This series has a very good effect on the addition of various coagulants, coagulants, ozone, liquid chlorine and acid-base neutralization, gas-water mixing systems, etc.

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SV Series

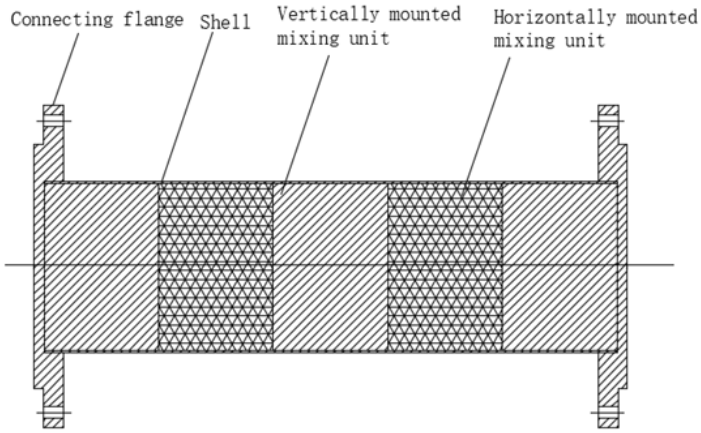
The internal unit of the SV static mixer is assembled by carefully designed corrugated sheets, which enables different fluids to flow in a zigzag shape in a three-dimensional space, and each is dispersed in each other. The SV series is with the best mixing effect.



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Model	Dg (Nominal Diameter, mm)	Dh (Hydraulic Diameter, mm)	Q (Flowrate, m^3/h)	L (Length, mm)	DN (mm)
EW-SV-2.3/20	20	2.3	0.9~1.8	500	20
EW-SV-2.3/25	25	2.3	1.4~2.9	500	25
EW-SV-3.5/32	32	3.5	2.2~4.5	500	32
EW-SV-3.5/40	40	3.5	2.2~4.5	500	40
EW-SV-3.5/50	50	3.5	3.5~7	500	50
EW-SV-5/80	80	5.0	9.0~1.8	500	80
EW-SV-5/100	100	5.0	14~28	1000	100
EW-SV-5~7/125	125	5.0	30~60	1000	125
EW-SV-5~7/150	150	5.0	30~60	1000	150
EW-SV-5~20/200	200	5.0	56~110	1000	200
EW-SV-5~30/300	300	5.0	125~250	1000	300
EW-SV-7~30/400	400	7.0	240~400	2000	400
EW-SV-7~30/500	500	7.0	353~706	3000	500
EW-SV-7~30/600	600	7.0	680~900	3000	600
EW-SV-7~30/700	700	7.0	850~1200	3000	700
EW-SV-7~30/800	800	7.0	1100~1500	3000	800
EW-SV-7~30/1000	1000	7.0	1413~2826	3000	1000

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Structure Drawing

Applications: Processes of liquid-liquid, liquid-gas, gas-gas mixing, emulsification, reaction, absorption, extraction, heat transfer enhancement, etc., with a viscosity of ≤102 centipoise. It is suitable for the mixing process of various low, medium and high pressure equipment. Suitable for gasoline, diesel, oil blending, salt water neutralization, acid-base neutralization, gas mixing.

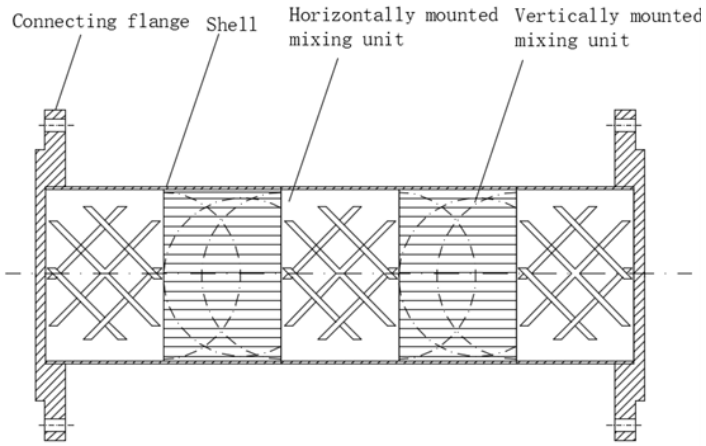
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SX Series

SX series is efficient mixing equipment with no moving parts. It has the advantages of simple process, compact structure, low energy consumption, low investment, large operating flexibility, no maintenance, and good mixing performance. The internal unit of the SX static mixer is composed of intersecting horizontal bars, and the horizontal bars are at 45 degrees to the axis of the tube shell. The mixing effect of SX type is between SV type and SK type.



Model	Dg (Nominal Diameter, mm)	Dh (Unit Hydraulic Diameter, mm)	L (Standard Length, mm)	Q (Flowrate, m^3/h)
EW-SX-12.5/50	50	12.5	500	3.5-7.0
EW-SX-16.25/65	65	16.25	1000	6-12
EW-SX-20/80	80	20	1000	9-18
EW-SX-25/100	100	25	1000	14-28
EW-SX-31.25/125	125	31.25	1000	22-44
EW-SX-37.5-150	150	37.5	1000	30-60
EW-SX-50/200	200	50	1000	56-110
EW-SX-62.5/250	250	62.5	1000	88-176
EW-SX-75/300	300	75	1000	125-250
EW-SX-87.5/350	350	87.5	1000	173-346
EW-SX-100/400	400	100	1000	226-452
EW-SX-125/500	500	125	1000	353-706



Structure Drawing

Applications: Process of polymer mixing, light ketone-benzene dewaxing oil, paper pulp chlorinated bleaching, crude oil alkali injection.

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SL Series

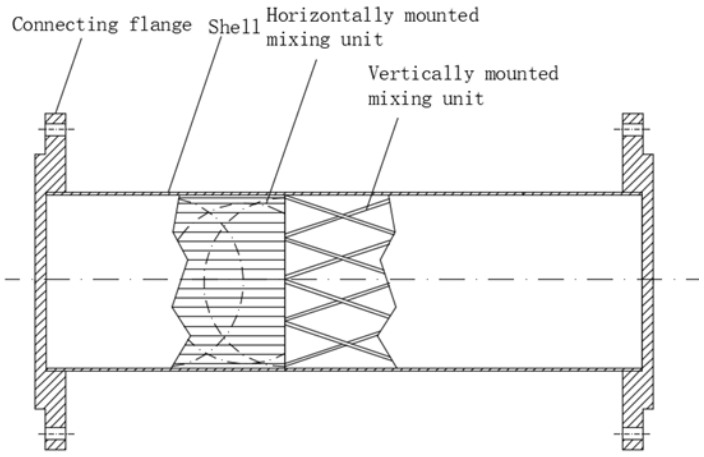
The unit is composed of a single X-shaped unit with crossed bars according to a certain rule. The technical characteristics are liquid-liquid, liquid-solid phase mixing, and the non-uniformity coefficient s X ≤ 5%.



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Model	Dg (Nominal Diameter, mm)	Dh (Unit Hydraulic Diameter, mm)	L (Standard Length, mm)	Q (Flowrate, m^3/h)
EW-SL-12.5/25	25	12.5	500	0.7-1.4
EW-SL-16/32	32	16	500	1.4-2.9
EW-SL-20/40	40	20	500	2.3-4.6
EW-SL-25/50	50	25	500	3.5-7
EW-SL-40/80	80	40	1000	9-18
EW-SL-50/100	100	50	1000	14-28
EW-SL-75/150	150	75	1000	32-64
EW-SL-100/200	200	100	1000	56-110
EW-SL-125/250	250	125	1000	88-176
EW-SL-150/300	300	150	1000	127-255
EW-SL-175/350	3850	175	1000	173-346
EW-SL-200/400	400	200	1000	226-452
EW-SL-250/500	500	250	1000	353-706
EW-SL-300/600	600	300	1000	410-814

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Structure Drawing

Applications: Sewage treatment, high polymer mixing, heat transfer reaction, heat exchanger.

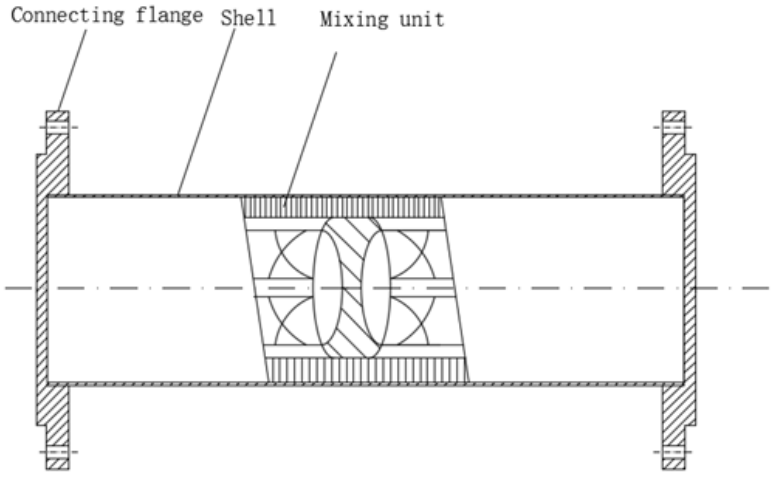
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SH Series

SH Series is composed of double channels, in which spirals are placed, the orientation of the double channels of adjacent units is misaligned by 90°, and fluid redistribution chambers are arranged between the units. The technical characteristics are: the highest degree of dispersion is: 1-2μm, and the unevenness of liquid-liquid phase is: σ X ≤1~5%.



Model	Dg (Nominal Diameter, mm)	Dh (Unit Hydraulic Diameter, mm)	L (Standard Length, mm)	Q (Flowrate, m^3/h)
EW-SH-3/15	15	3	500	0.1-0.2
EW-SH-4.5/20	20	4.5	500	0.2-0.4
EW-SH-5/25	25	5	500	0.5-1.1
EW-SH-7/32	32	7	500	0.9-1.8
EW-SH-9/40	40	9	1000	1.6-3.2
EW-SH-12/50	50	12/	1000	2.3-4.6
EW-SH-19/80	80	19	1000	4.0-8.0
EW-SH-24/100	100	24	1000	6.5-13.0
EW-SH-36/150	150	36	1000	31-63
EW-SH-49/200	200	49	1000	54-108
EW-SH-74/300	300	74	1000	124-248
EW-SH-124/500	500	124	1000	174-348



Structure Drawing

Applications: For the mixing of fluids in fine chemical, plastics, synthetic fibers, mining and metallurgy industries, emulsification, color matching, injection molding, spinning, heat transfer and other processes, it is especially suitable for clean media with low flow and high mixing requirements of medium and high viscosity ≤ centipoise.

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