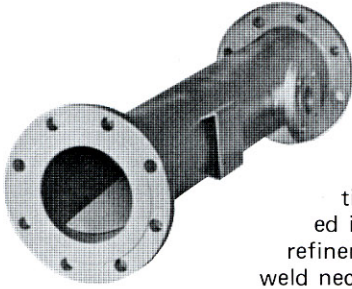
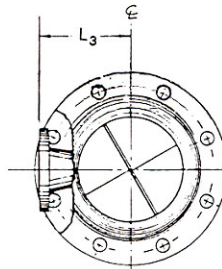
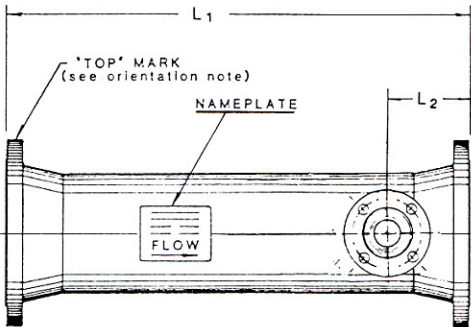


KOMAX "CT" SERIES INLINE STATIC/MOTIONLESS MIXERS



Komax Custody Transfer or CT mixers are installed upstream of the sampling point in a crude oil transfer line. They assure that the bottom sediment and water — B,S & W — is thoroughly dispersed throughout the crude oil stream. An even water droplet size and distribution occurs over a wide flow range. This means that a truly representative sample is taken by the automatic sampler. Komax CT mixers are installed in petroleum product transfer lines such as ship and tank truck terminals or refinery transfers in combination with a LACT unit. CT mixers are supplied with weld neck flanges or ends prepared for welding. For ease of installation Komax CT mixers are supplied complete with two inch flanged port for the automatic sampler connection. Dimensions for this style and model numbers are listed below.



HOUSING

CARBON STEEL - A106 Grade B or equal
Schedule 40 for units up to 10" size
Standard Wall (3/8") for 12" size & larger

FLANGES

CARBON STEEL - A105 ANSI B 16.5
Raised Face Weld Neck 150 lb. and 300 lb.

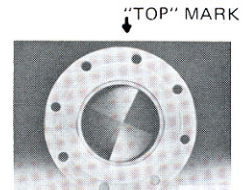
ELEMENTS

CARBON STEEL - A36 or equal

- L₁ DIMENSION IS IDENTICAL FOR ALL END CONFIGURATIONS. L₂ AND L₃ ARE BASED ON 300 LB. FLANGES
- SIDE PORT IS TWO INCH RFWN FLANGE ON ALL SIZES.
- ALL DIMENSIONS ± 1/8"

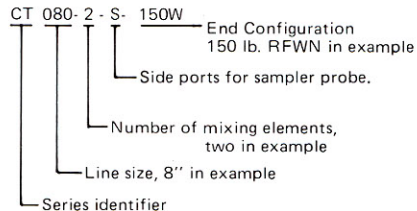
ORIENTATION NOTE

WHEN CT MIXERS ARE MOUNTED HORIZONTALLY, THE "TOP" MARK MUST BE UPPERMOST TO ENSURE THAT THE B,S & W IS LIFTED FROM THE BOTTOM OF THE PIPELINE AND PROPERLY DISPERSED BY THE SPECIAL FIRST MIXING ELEMENT. SEE BULLETIN 104



LINE SIZE NPS	L ₁ in.	L ₂ in.	L ₃ in.	SHIPPING WEIGHT lb.		
				Weld Prep	150 lb.	300 lb.
3	25	5 1/2	4 5/16	36	56	72
4	29	5 1/2	4 7/8	50	80	106
6	39	6	6	98	146	188
8	48	6 1/2	7 1/8	168	246	308
10	57	7	8 1/8	328	432	516
12	67	8	9 1/8	384	544	670
14	73	8 1/2	9 3/4	461	681	827
16	82	9	10 3/4	588	868	1094
18	92	9 1/2	11 3/4	738	1038	1384
20	101	10	12 3/4	896	1256	1702
24	119	10	14 3/4	1261	1781	2427

"CT" SERIES MODEL NUMBERS

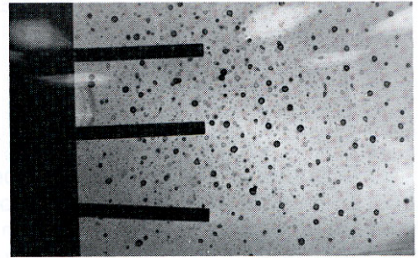


END CONFIGURATIONS

150W - 150 lb. raised face weld neck flanges

300W - 300 lb. raised face weld neck flanges

This photograph was taken of clear mineral oil having the same viscosity and density as medium crude. 1% dyed water was added. The picture shows the trailing edge of a CT mixer element that has been fitted with three 750 micron diameter wires to allow estimates to be made of water droplet size. Note that the water droplets are uniform in size and distribution. They are typically less than one tenth the size of a sampling probe orifice guaranteeing that a truly representative sample can be taken. The test velocity is 2 ft/sec. At higher velocities, uniform water droplets of a smaller size are produced.



Note: Stable emulsions will be produced at velocities above 20 ft/sec.

LINE SIZE	LENGTH	SHIPPING WEIGHT IN lb.		
		Weld Prep.	150 lb.	300 lb.
3	9	10	30	40
4	12	18	48	68
6	18	43	91	127
8	24	82	158	216
10	30	142	246	324
12	36	205	365	485
14	39	246	466	606
16	45	323	603	823
18	51	410	710	1050
20	57	508	868	1308
24	69	734	1254	1894

WHEN SIDE PORTS ARE NOT REQUIRED
USE THE FOLLOWING MODEL NUMBERS

CT 080-2-150W End Configuration 150 lb. RFWN in example.

└─ Number of mixing elements, two in example.

└─ Line size, 8" in example

└─ Series identifier

END CONFIGURATIONS

150W - 150 lb. raised face weld neck flanges

300W - 300 lb. raised face weld neck flanges

11 - Ends prepared for welding

NOTE: Small units 3/4 inch NPS through two inch NPS
are available with threaded ends.

