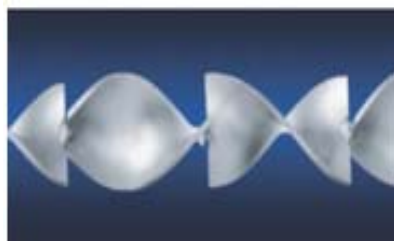


STATIC MIXERS

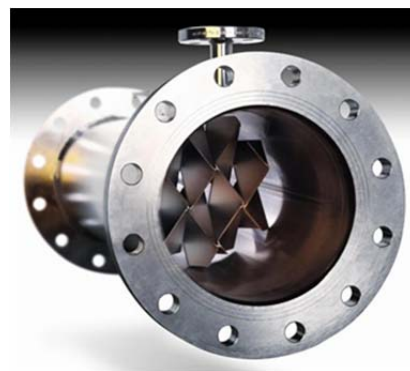
The static mixer is the most simple and economical device for obtaining intimate mixing of two or more components. The purpose is simply achieved by fluid patterns deviation and creation of turbulence. The main applications are in the field of water and smokes treatment and preparation of products in chemical and food industry.

Selection is based on the ratio of the flow rates, viscosities and densities of the fluids to be mixed. Function of Fluid regime and material of construction, GREC design and manufacture different types and configurations of mixing elements.

Kind of mixing elements manufacturer by GREC:

VM Elements for laminar regime		HY Elements sanitary finish for turbulent regime	
BM Elements for gas-liquid mixing		TM Elements for turbulent regime	

Sanitary application **HY**,
DIN connection
with additive inlet

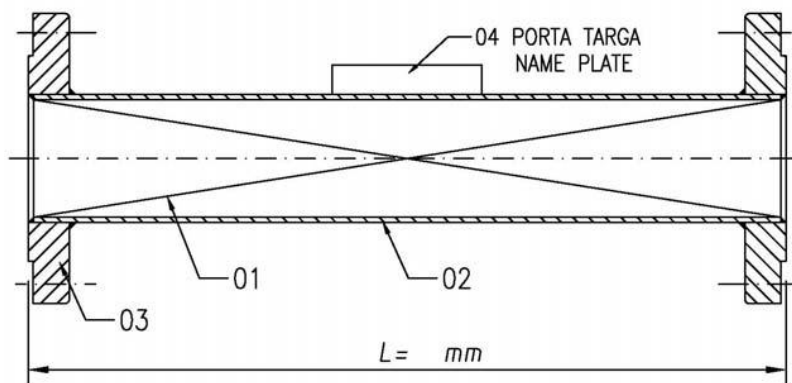


High viscosity application **BM** flange
connection with additive inlet

STATIC MIXER SERIES TM – TURBULENT REGIME

Model: TM4/6-DN25 ÷ 80PN16

Rev	Date	BY	Verif	Appr.
0	01/10/12	MF	MM	MM



POS	Q.ty	Description	Material
01	4 / 6	MIXING ELEMENTS TIPE TM DN	AISI 304
02	1	PIPE DN	AISI 304
03	2	FLANGE DN	AISI 304
04	1	NAME PLATE SUPPORT	AISI 304
05	1	NAME PLATE	AISI

Design code	ASME VIII Div 1	Design temperature	-20°+150°C
Connection	EN1092-1	Design pressure	12 bar
Length (L)	See table L (mm)	Material	SS 304
Efficiency	➤ 95%	Pressure drop	Max 0,5 bar

Note:

PROCESS DATA

No. Mixing elements	Viscosity ratio μ_1 / μ_2	Density ratio SG1/SG2	Flow rate ratio Q1/Q2
4	< 1:2000	< 1:10	< 1:250
6			< 1:1000

PIPE	FLOW RATE		LENGHT L (mm)				Note
DN	Q min (m³/h)	Q max (m³/h)	4 EL	CODE	6 EL	CODE	
25	0,25	4	180		260		
40	0,45	9	260		390		
50	1,2	15	330		490		
65	1,5	22	420		620		
80	1,8	33	515		760		