

## Flex-Mix

### INLINE MIXER TYPE DAR

#### APPLICATION

The Flex-Mix Inline Mixer type DAR is used for continuous mixing of different liquid combinations, mixing of high viscosity products and other substances and production of emulsions. It is especially suitable for mixing of butter and similar products where a homogeneous, liquid free and blended product is required.

#### CAPACITY

Up to 1585 gal/h (6,000 L/h).

#### OPERATION

The mixer is an inline, multistage rotor/stator mixer. A number of stator rings with holes are placed in a cylinder pipe. The rotor wheels are placed between the stator rings. The rotor wheels comprise a number of pins, which rotate with the shaft. The products are led axially through the holes in the stator rings and at the same time the rotors create a tangential shear by which the products are blended / mixed.

The mixer does not do any pumping and thus a feed pump is required to ensure the liquid flow through the mixer.



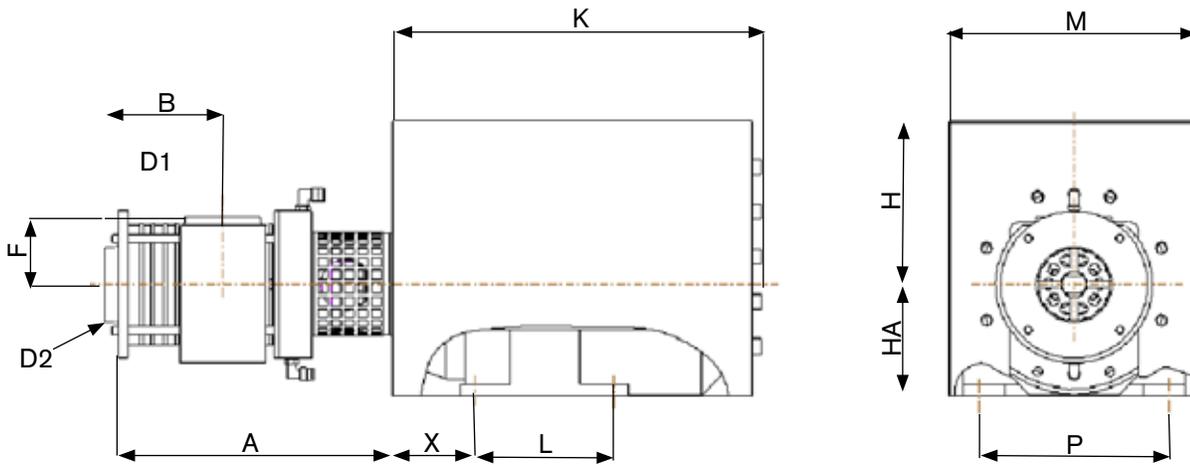
#### STANDARD SPECIFICATION

- All parts in contact with the product are made of stainless steel AISI 316L / DIN1.4404.
- Closed coupled design
- Motor: Totally enclosed according to IEC or NEMA norm, covered by a stainless steel shroud
- Double mechanical, flushed shaft seal made of SiC/Carbon alternatively of SiC/SiC seal ring material (W+ pump seal)
- Seal material: EPDM or FPM (Viton), FDA quality
- Sanitary design and 3-A execution for Clean-In-Place (CIP) cleaning
- Two basic mixer sizes: 3" (76 mm) and 4" (102 mm) rotors (DAR 75 and DAR 100)
- In/outlet dimensions: 1.5" (38 mm), 2.5" (64 mm), 3" (76 mm), and 4" (102 mm) or NV40, 65, 80, and 100
- In/outlet fittings in accordance with required standard, ISO, DIN, etc.
- Delivered with or without console (support)

## TECHNICAL DATA

	DAR 75	DAR 100
MOTOR	4-5 hp (3-4 kW)	4-5 hp (3-4 kW) / 7-10 hp (5.5-7.5 kW)
	1450 rpm @ 50 Hz	1450 rpm @ 50 Hz
LIQUID CAPACITY, MAX.	13 gal/min (3000 l/h)	26 gal/min (6000 l/h)
MAX. TEMPERATURE	284°F (140°C)	284°F (140°C)
SYSTEM PRESSURE, MAX.	362.6 psi (25 bar)	362.6 psi (25 bar)
SERVICE WATER FOR SHAFT SEAL		
CONSUMPTION	0.066 - 0.13 gal/min (15-30 l/h)	0.066 - 0.13 gal/min (15-30 l/h)
PRESSURE, MAX.	101.5 psi (7 bar)	101.5 psi (7 bar)
NUMBER OF ROTORS	4	4
NUMBER OF STATORS	3	3

## DIMENSIONAL SKETCHES



TYPE	DIMENSIONS IN (mm)					MOTOR SIZE (IEC)		WEIGHT LB (KG) (INCL. MOTOR)		MOTOR SIZE (IEC) DIMENSIONS IN (mm)		
	D1*	D2*	F	B	A	112	132	247 (112)	291 (132)			
DAR 75-38/38	1.5 (38)	1.5 (38)	2.3 (58)	4.5 (115)	10.8 (274)	x		112 (51)		HA	4.4 (112)	5.2 (132)
DAR 100-63/63	2.5 (63.5)	2.5 (63.5)	2.7 (68.5)	4.6 (117)	11.4 (289)	x		126 (57)		X	2.8 (70)	3.5 (89)
DAR 100-76/76	3.0 (76.6)	3.0 (76.6)	2.7 (68.5)	4.9 (124)	12.1 (308)	x	x	137 (62)	192 (87)	L	5.5 (140)	7.0 (178)
DAR 100+101/101	4.0 (101.6)	4.0 (101.6)	2.7 (68.5)	5.1 (130)	13.3 (337)	x	x	152 (69)	207 (94)	H	6.4 (163)	7.3 (185)
										K	14.6 (371)	17.6 (446)
										M	10.0 (253)	11.5 (293)
										P	7.5 (190)	8.5 (216)

\* OD dimension

Note: The dimensions are without fittings.

Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) is a multi-industry manufacturing leader. For more information, please visit [www.spxflow.com](http://www.spxflow.com)

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