

# APV Flex-Mix™ In-line Mixer

TYPE DAR

## Application

The in-line mixer type DAR is designed for continuous mixing of different liquid combinations, mixing of high viscosity products and other substances and in-line emulsification. It is especially suitable for mixing of butter and similar products where a homogeneous, liquid free and blended product is required.

### Capacity

Up to 6,000 kg/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 generate any pumping effect and thus a feed pump is required to ensure the liquid flow through the mixer.



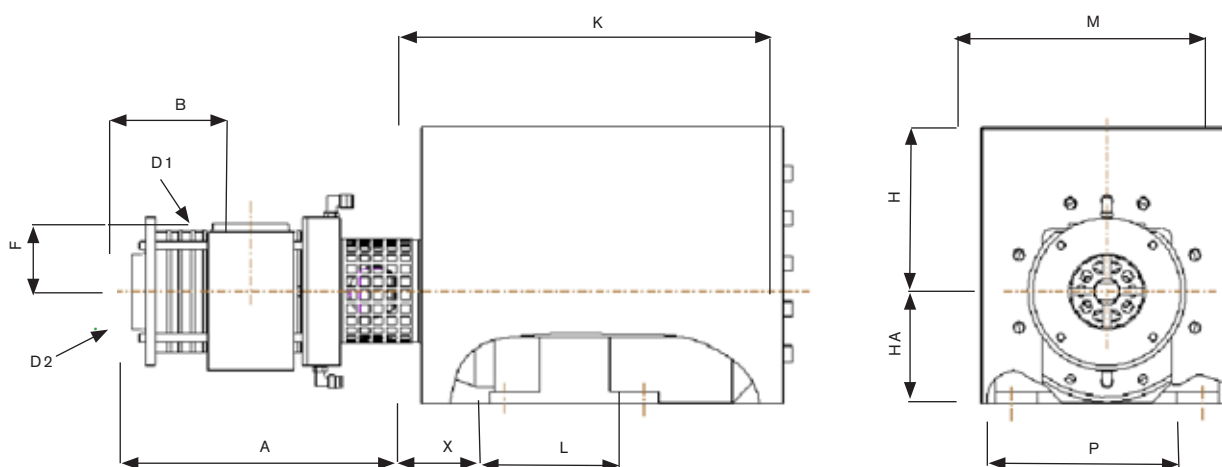
## Standard specification

- All parts in contact with the product are made of stainless steel AISI 316L / DIN1.4404.
- Closed coupled design
- Motor is 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 of EPDM or FPM (Viton), FDA quality
- Sanitary design and 3A execution for CIP cleaning
- Two basic mixer sizes: 3" and 4" rotors (DAR 75 and DAR 100)
- In/outlet dimensions: 1½", 2½", 3", and 4" 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	KW	3-4	3-4 / 5,5-7,5
	RPM @ 50HZ	1450	1450
LIQUID CAPACITY, MAX.	KG/H	3000	6000
MAX. TEMPERATURE	C°	140	140
SYSTEM PRESSURE, MAX.	BAR	25	25
SERVICE WATER FOR SHAFT SEAL			
CONSUMPTION	L/H	15-30	15-30
PRESSURE, MAX.	BAR	7	7
NUMBER OF ROTORS		4	4
NUMBER OF STATORS		3	3

## Dimensional sketches



TYPE	DIM. (MM)					MOTOR SIZE (IEC)		WEIGHT (KG) (INCL. MOTOR)		DIM. (MM)	MOTOR SIZE (IEC)	
	D1*	D2*	F	B	A	112	132	112	132		112	132
DAR 75-38/38	38	38	58	115	274	X		51		HA	112	132
DAR 100-63/63	63,5	63,5	68,5	117	289	X		57		X	70	89
DAR 100-76/76	76,6	76,6	68,5	124	308	X	X	62	87	L	140	178
DAR 100+101/101	101,6	101,6	68,5	130	337	X	X	69	94	H	163	185
										K	371	446
										M	253	293
										P	190	216

\* OD

Note: The dimensions are without fittings.



SPX Flow Technology, Pasteursvej, DK-8600 Silkeborg

P: +45 70 278 278 F: +45 70 278 330

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