



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.

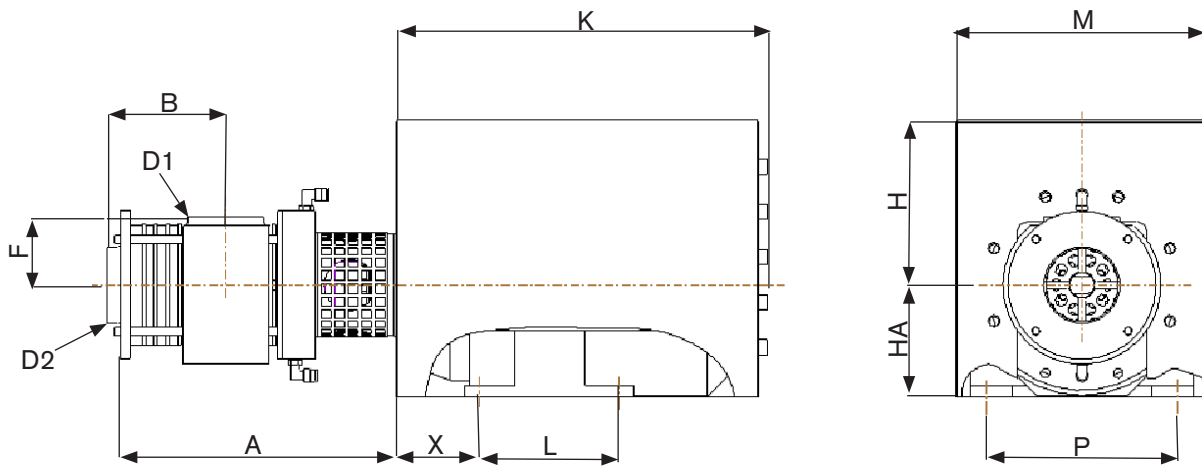
Standard specification

- 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) | |
|-----------------|-----------|-------|------|-----|-----|------------------|-----|---------------------------|-----|
| | D1* | D2* | F | B | A | 112 | 132 | 112 | 132 |
| DAR 75-38/38 | 38 | 38 | 58 | 115 | 274 | x | | 51 | |
| DAR 100-63/63 | 63,5 | 63,5 | 68,5 | 117 | 289 | x | | 57 | |
| DAR 100-76/76 | 76,6 | 76,6 | 68,5 | 124 | 308 | x | x | 62 | 87 |
| DAR 100+101/101 | 101,6 | 101,6 | 68,5 | 130 | 337 | x | x | 69 | 94 |
| | | | | | | | | | |
| | | | | | | | | | |

| Dim. (mm) | Motor size (IEC) | |
|-----------|------------------|-----|
| | 112 | 132 |
| HA | 112 | 132 |
| X | 70 | 89 |
| L | 140 | 178 |
| H | 163 | 185 |
| K | 371 | 446 |
| M | 253 | 293 |
| P | 190 | 216 |

*: OD

Note: The dimensions are without fittings.

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