

## Our Range of Flow Products



Mixproof Valve



Pneumatic Seat Valve



Flow Control Valve



Butterfly Valve



Side Mounted Agitator



Inline Strainer



Rotary Spray Ball



Inline Sight Glass



Non Return Valve



Safety Valve



Stainless Steel Tee & Bends



Stainless Steel Pipes/Tubes



Y Stainer



Plug Valve



Union



Manual BFV

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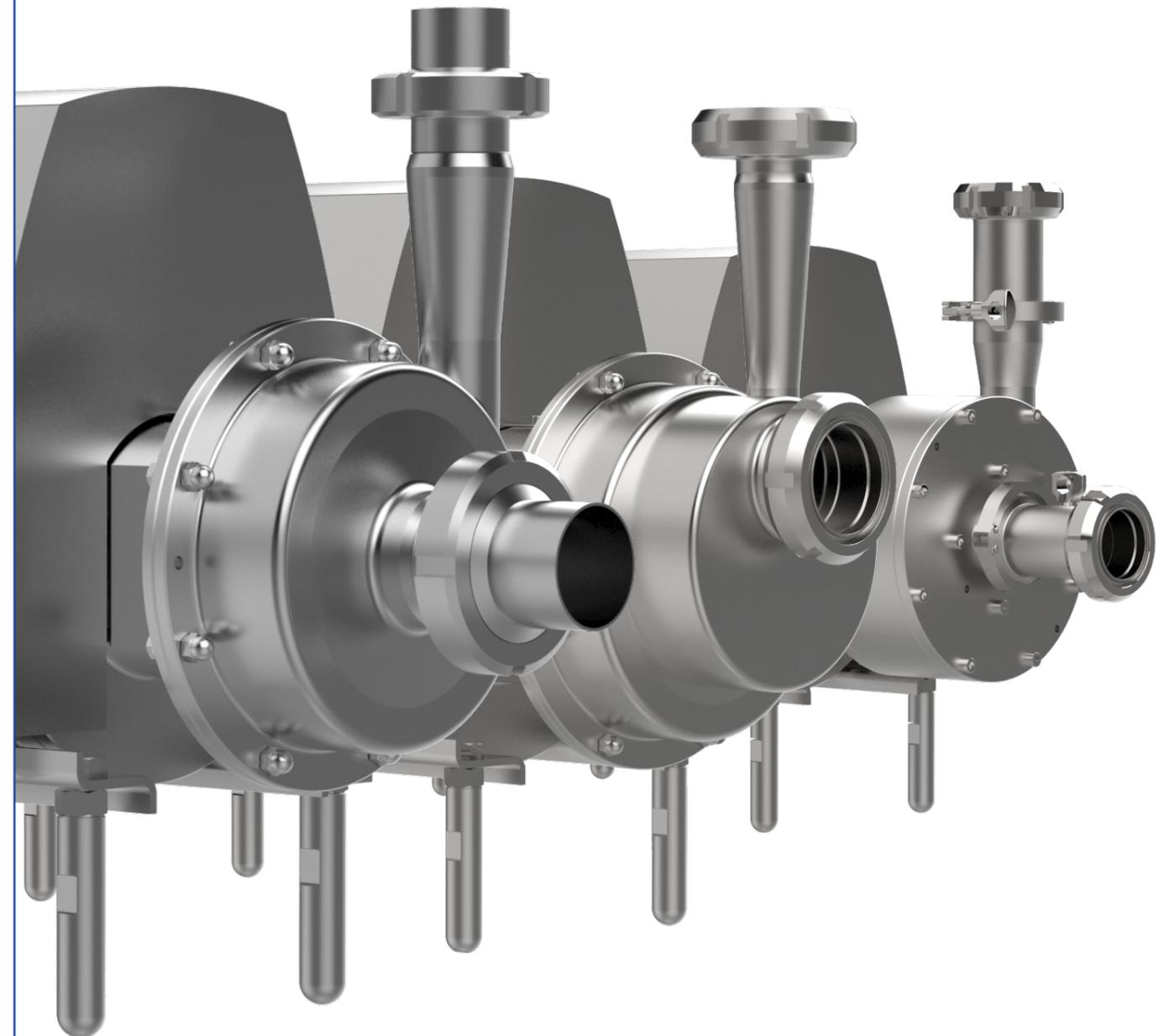


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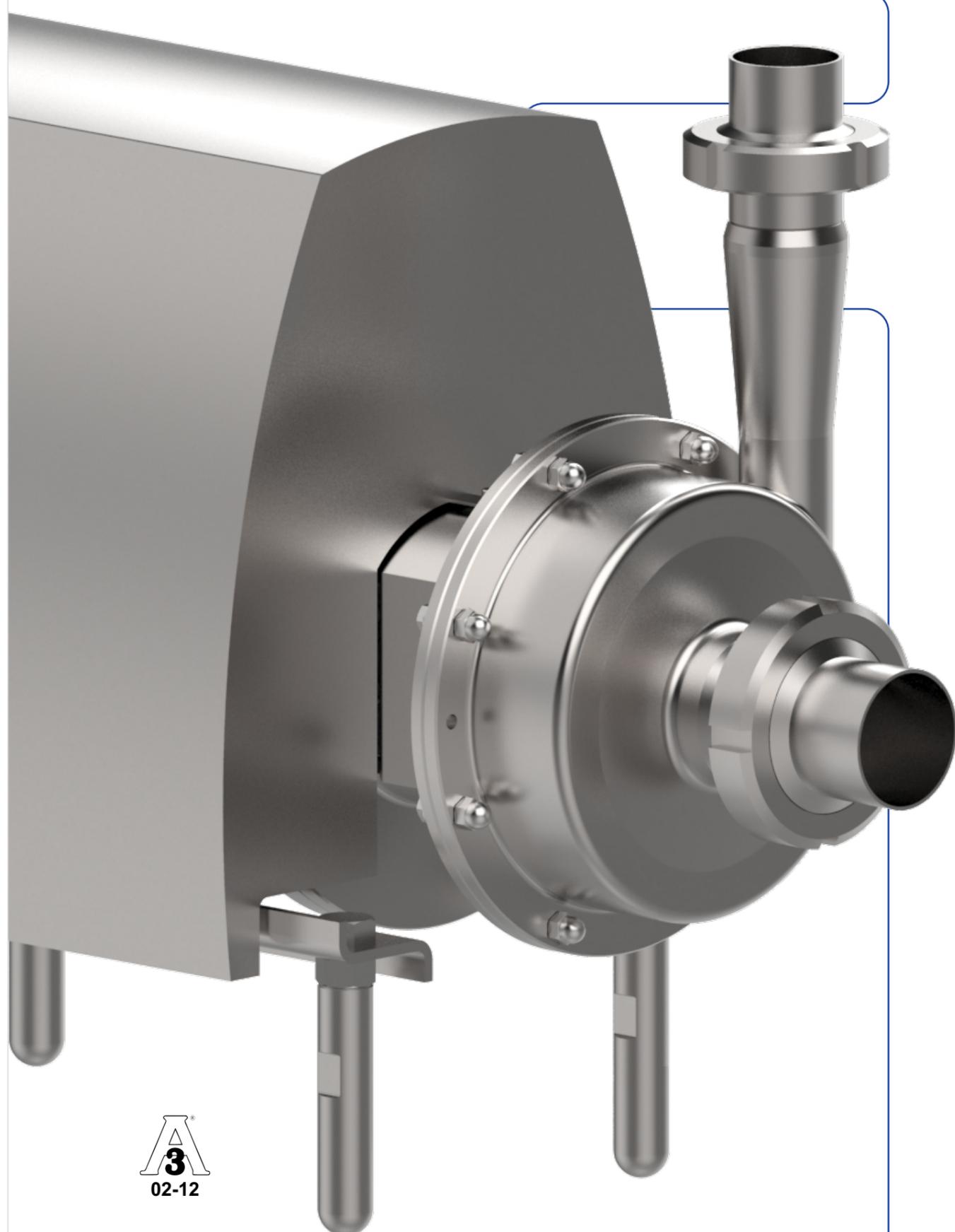


corporate film

# CENTRIFUGAL PUMPS & Inline Mixing Equipment



PROCESSING & PACKAGING **SOLUTIONS**  
TO MAKE **FOOD** SAFE



# Centrifugal Pumps

IDMC CLA series centrifugal pumps have been specifically engineered to meet the most stringent standards for hygienic applications. The open impeller is designed with twisted vanes to achieve zero incidence angle for shockless entry of fluid.

The front-loading shaft seal with multi-springs design exerts uniform pressure, making maintenance fast and easy. It takes just a few minutes to replace the shaft seal. IDMC pumps are equipped with the option of a single or double shaft seal with ease of conversion, providing versatility for various applications.

## Inherent Features

Efficient and economical

The pumps can handle capacities up to 95 m<sup>3</sup>/hour at 50 Hz.

Self-aligned keyless coupled design ensures quick and simple integration with any standard motor

Operate quietly with minimal noise

Durable Shaft seal: The bi-directional design eliminates failure in case of reverse rotation and the balanced design minimizes the risk of seal opening during unforeseen pressure shock.

IDMC centrifugal pumps are fully suitable for CIP and SIP

Ease of maintenance

The pumps are characterized by high efficiency, low energy consumption and minimal operating and maintenance costs

## Technical specifications

### Material and options

Product wetted steel parts (MoC)	1.4404 (AISI 316L Stainless Steel)
Wetted parts surface finish	R <sub>a</sub> up to 0.8 µm/ EP
Other parts & Motor Shroud	1.4301 (AISI 304 Stainless Steel)
Product wetted elastomers	EPDM / FPM
Rotary seal face	Carbon / SiC
Stationary seal face	SiC / SS
End connection	DIN / TC / SMS
Options	Casing drain valve, Flameproof motor

### Motor

3Ø, 2/4 poles, IP55 as per IEC standard, insulation class F, 50 Hz, TEFC

## Operating Data

### Pressure and temperature

Maximum inlet pressure	up to 1000 kPa (10 bar)
Temperature range	-10°C to +140°C

### Double mechanical shaft seal

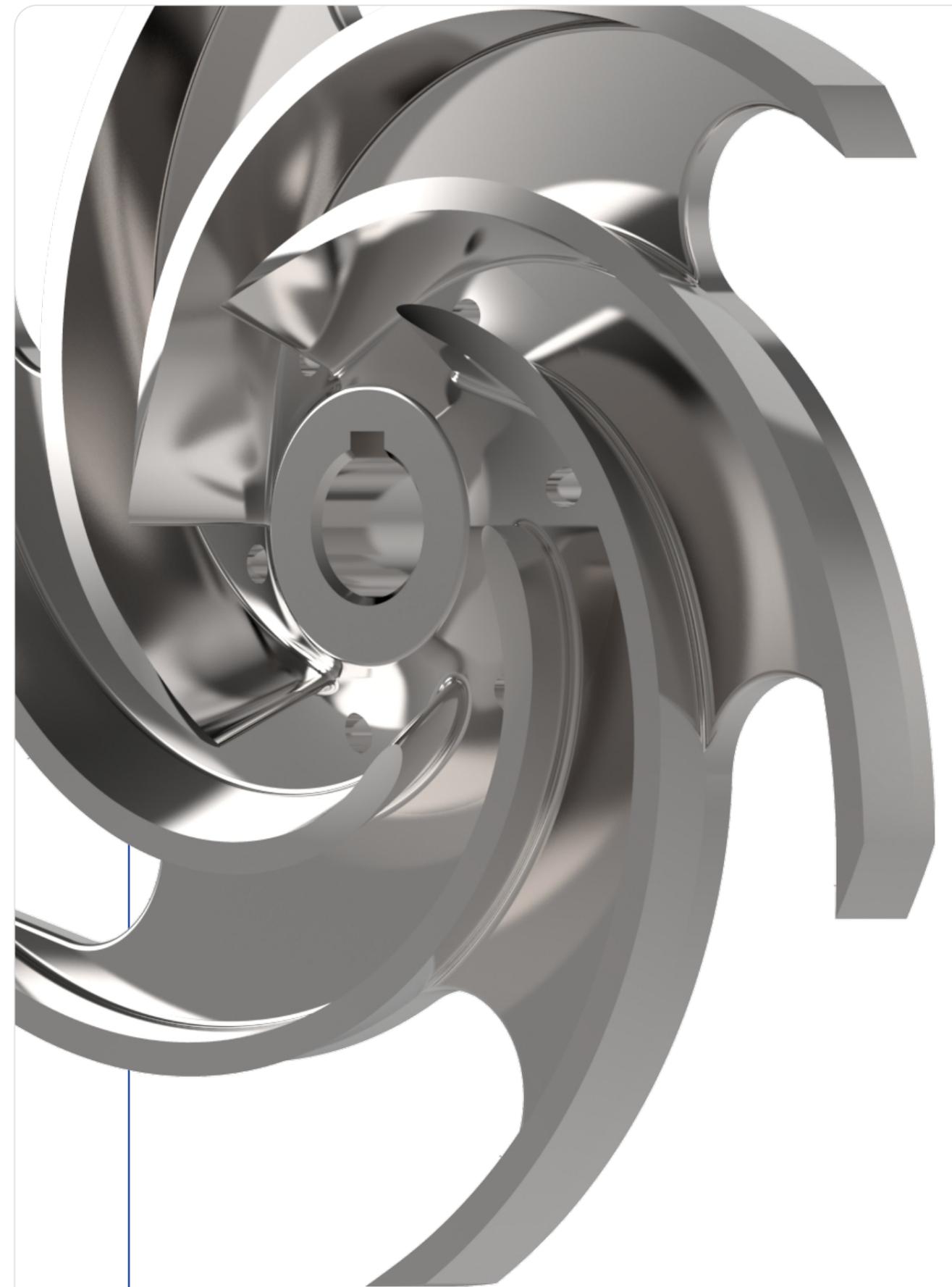
Water pressure inlet	Max. 200 kPa (2 bar)
Water consumption	0.5 - 1 LPM
Connections	Ø6 tube

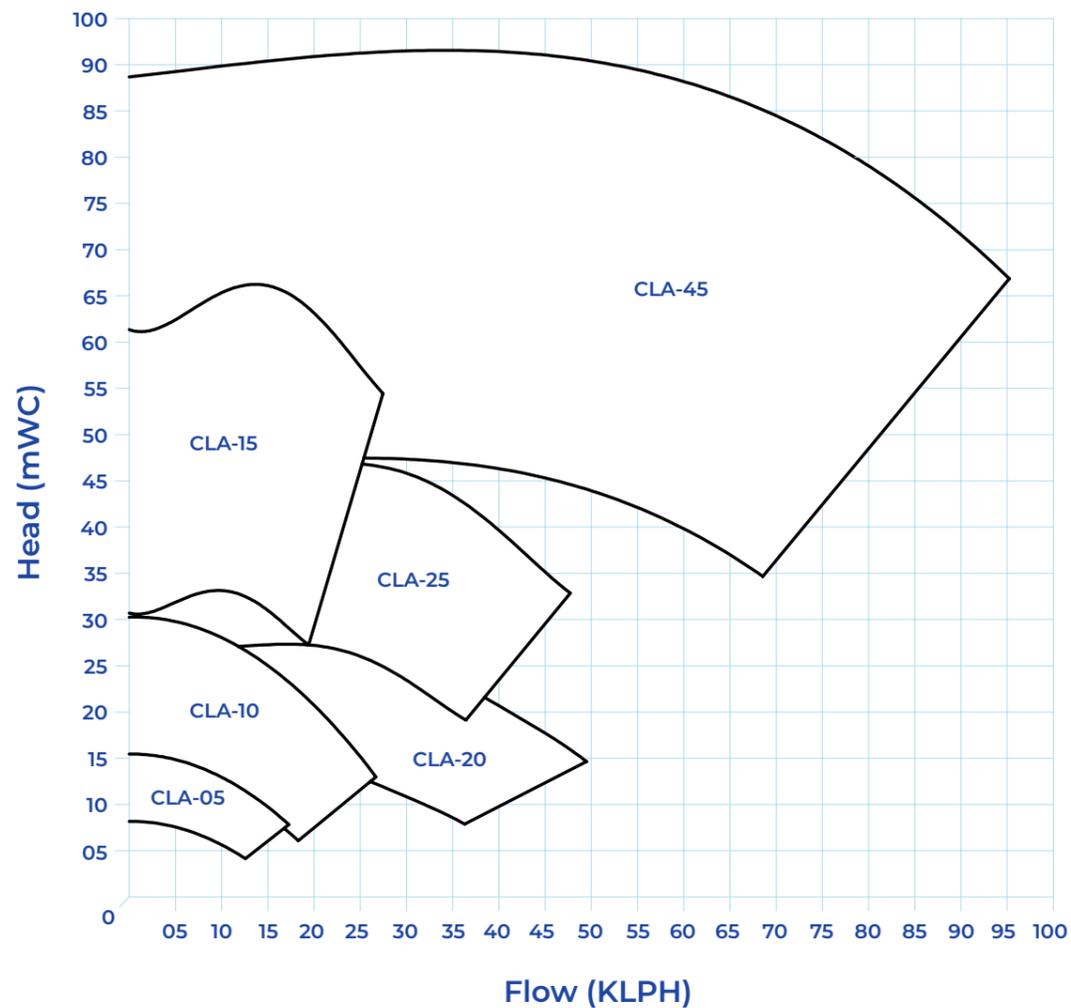
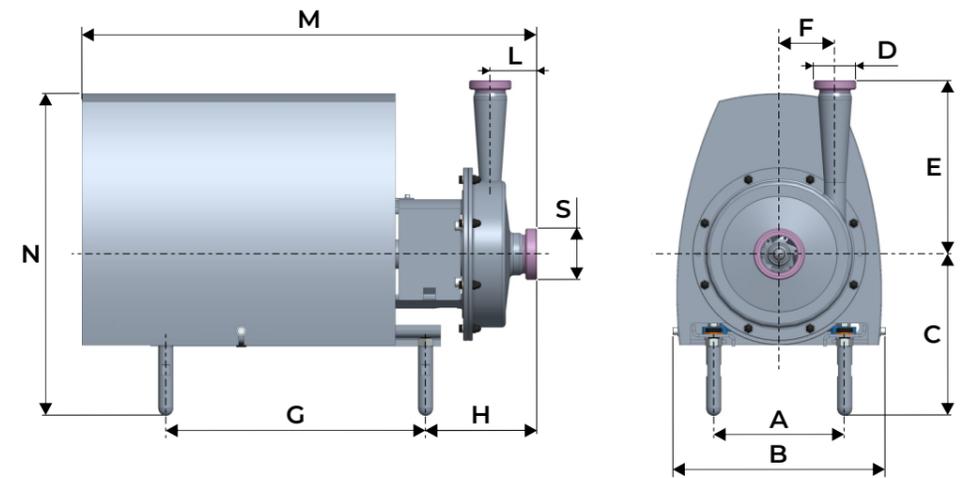
## Application

Dairy, Food, Beverage, Brewery, Personal care and Pharma

## Input for pump selection

Flow rate (LPH), Head (mWC), Viscosity (cP), Density (Kg/m<sup>3</sup>), Product Temperature and applications detail e.g. hazardous, abrasive, crystalize undissolved particle percentage.





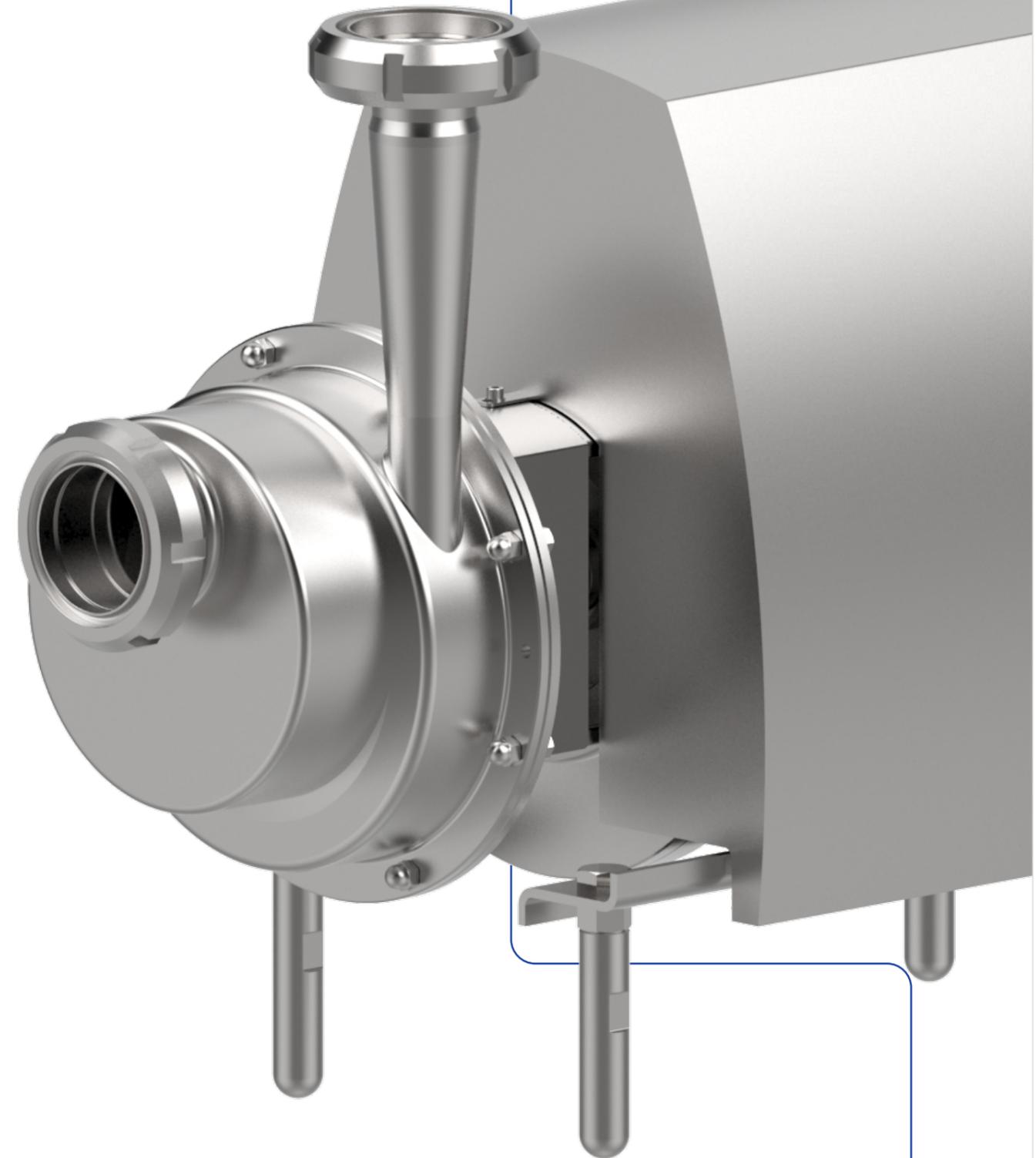
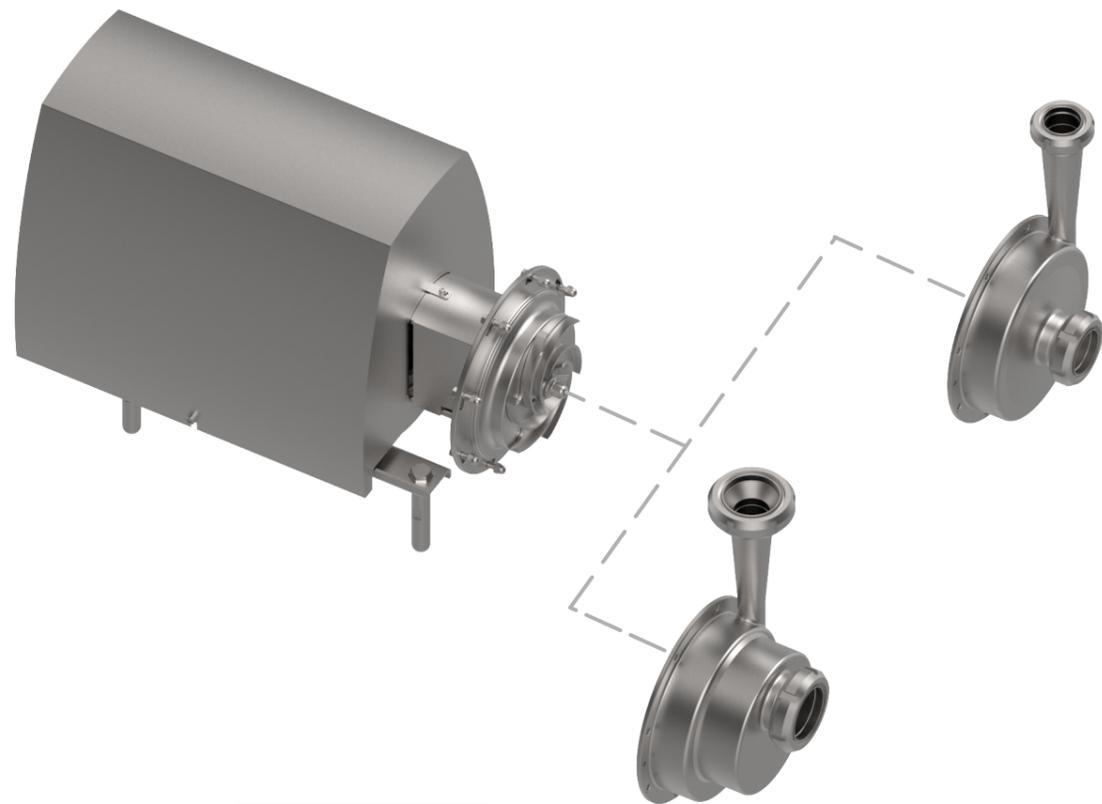
### Standard Dimensions

MODEL	POWER	FRAME	A	B	C	E	F	G	H	L	M	N	S	D	Wt (Kgs.)
CLA-05-110	0.75	71	112	238	200	181	58	230	143	59	483	362	2"	1.5"	25
	1	80	125	250	205	181	58	230	148	59	481	361	2"	1.5"	29
	1.5	80	125	250	205	181	58	230	148	59	481	361	2"	1.5"	32
CLA-10-146	1.5	80	125	250	205	190	75	230	182	68	548	370	2"	1.5"	42
	2	90S	140	250	225	190	75	310	171	68	598	390	2"	1.5"	45
CLA-15-205	3	90L	140	250	225	190	75	310	146	68	600	390	2"	1.5"	49
	3	90L	140	286	225	262	97	310	190	74	671	431	2"	1.5"	64
	4	100	160	286	255	262	97	375	207	74	696	451	2"	1.5"	86
	5	100	160	286	255	262	97	375	207	74	696	451	2"	1.5"	87
	5.5	112	190	305	247	262	97	375	214	74	736	486	2"	1.5"	89
CLA-20-150	7.5	132S	216	339	267	262	97	430	185	74	781	528	2"	1.5"	117
	10	132S	216	339	267	262	97	430	185	74	781	528	2"	1.5"	121
	2	90S	140	266	225	226	73.5	310	164	79	611	415	2.5"	2"	53
	3	90L	140	266	225	226	73.5	310	164	79	611	415	2.5"	2"	57
CLA-25-190	4	100	160	286	255	226	73.5	375	181	79	644	440	2.5"	2"	79
	5	100	160	286	255	226	73.5	375	181	79	644	440	2.5"	2"	80
	5.5	112	190	320	247	226	73.5	375	181	79	684	490	2.5"	2"	82
CLA-45-250	4	100	160	286	255	286	92	375	206	78	669	451	2.5"	2"	84
	5	100	160	286	255	286	92	375	206	78	669	451	2.5"	2"	85
	5.5	112	190	305	247	286	92	375	214	78	736	486	2.5"	2"	87
	7.5	132S	216	339	267	286	92	430	185	78	781	532	2.5"	2"	115
CLA-45-250	10	132S	216	339	267	286	92	430	185	78	781	532	2.5"	2"	120
	7.5	132S	216	354	267	373	118.6	430	235	90.5	795	532	3"	2.5"	129
	10	132S	216	354	267	373	118.6	430	235	90.5	795	532	3"	2.5"	134
	12.5	160LM	254	448	299	373	118.6	628	194	90.5	944	650	3"	2.5"	194
	15	160LM	254	448	299	373	118.6	628	194	90.5	944	650	3"	2.5"	197
	20	160LM	254	448	299	373	118.6	628	194	90.5	944	650	3"	2.5"	205
	25	160LM	254	448	299	373	118.6	628	194	90.5	944	650	3"	2.5"	223
	30	180M	279	509	319	373	118.6	641	194	90.5	998	727	3"	2.5"	265
40	200L	318	548	339	373	118.6	653	194	90.5	1104	777	3"	2.5"	322	

## Self-Priming Pumps

Centrifugal Self-Priming Pumps (CLA-SP series) are used in the food industry mainly as CIP return pumps.

The feature of negative suction is achieved in our CLA series pumps by a simple modification of only replacing the casing and the CLA pump gets converted into CLA-SP. This pump can lift the liquid from a negative suction. Thanks to the design of the casing with an eccentric inlet with an inbuilt reservoir which maintains a liquid ring inside the pump after the initial priming. This feature guarantees the presence of liquid within the pump even during dry suction lift, thereby preventing seal failure.



## Technical specifications

### Material and options

Product wetted steel parts (MoC)	1.4404 (AISI 316L Stainless Steel)
Wetted parts surface finish	R <sub>a</sub> up to 1.6 µm
Other parts & Motor Shroud	1.4301 (AISI 304 Stainless Steel)
Product wetted elastomers	EPDM / FPM
Rotary seal face	Carbon / SiC
Stationary seal face	SiC / SS
End connection	DIN / TC / SMS

### Motor

3Ø, 2 poles, IP55 as per IEC standard, insulation class F, 50 Hz, TEFC

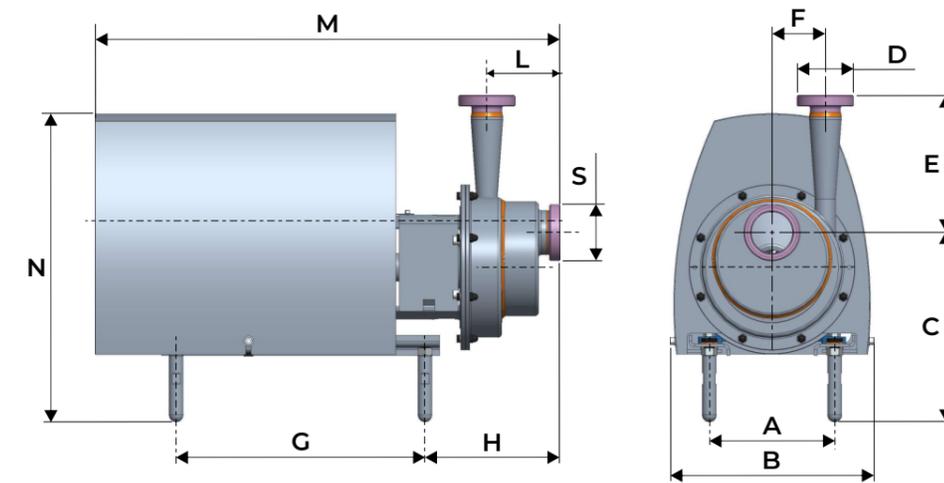
## Operating Data

### Pressure and temperature

Maximum inlet pressure	up to 1000 kPa (10 bar)
Temperature range	-10°C to +140°C

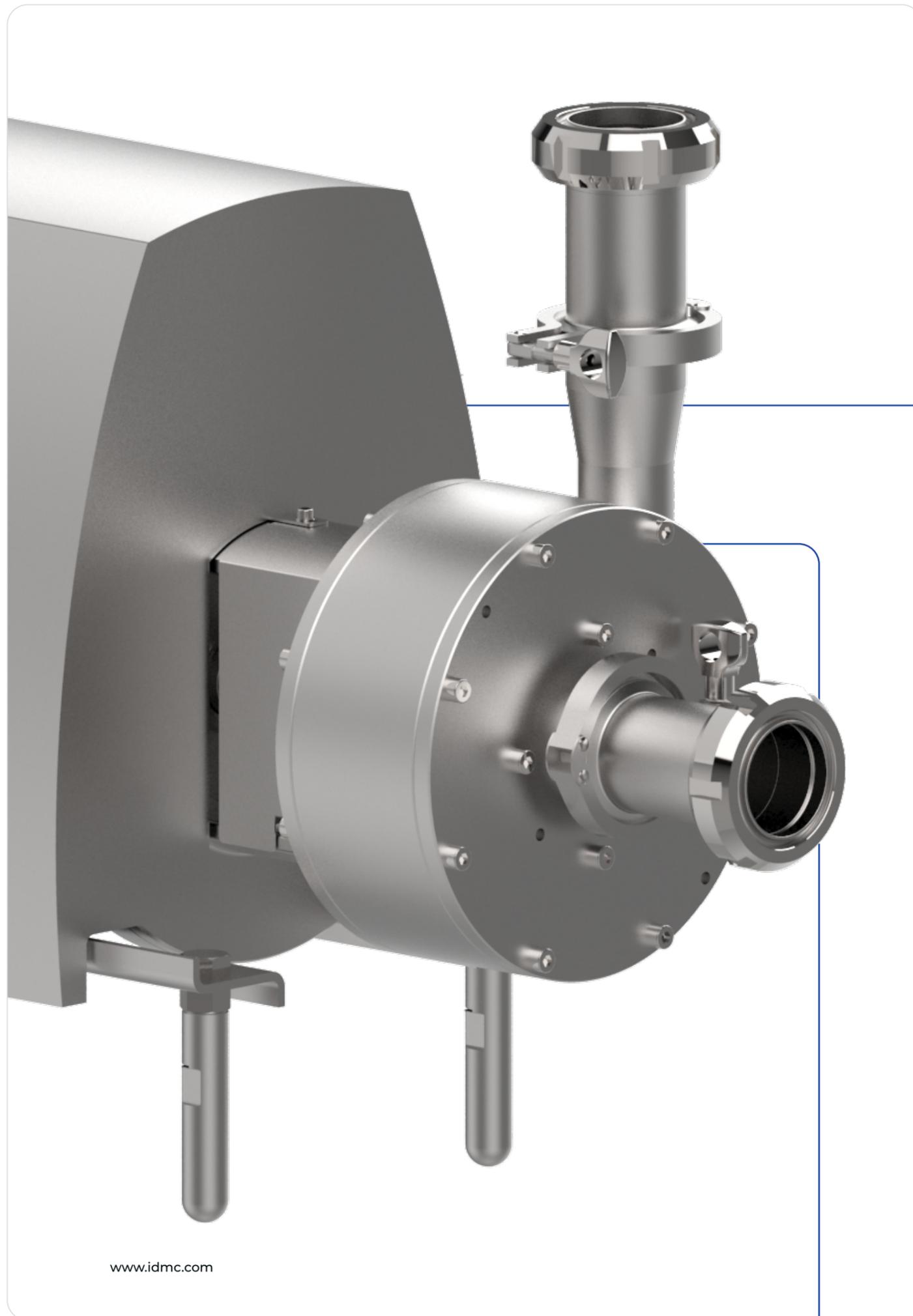
## Application

CIP return application at Dairy, Food, Beverage, Brewery, Personal care and Pharma



## Standard Dimensions

MODEL	POWER	FRAME	A	B	C	E	F	G	H	L	M	N	S	D	Wt (Kgs.)
	hp	Size													
CLASP-10-146	1.5	80	125	250	250	145	75	230	216	102	554	370	2"	2"	43
	2	90S	140	250	270	145	75	310	204.5	102	604	390	2"	2"	46
	3	90L	140	250	270	145	75	310	179.5	102	604	390	2"	2"	50
CLASP-20-150	2	90S	140	266	279	172	73.5	310	245.5	159	692	415	2.5"	2"	55
	3	90L	140	266	279	172	73.5	310	245.5	159	692	415	2.5"	2"	59
	4	100	160	286	309	172	73.5	375	263	159	725	440	2.5"	2"	81
	5	100	160	286	309	172	73.5	375	263	159	725	440	2.5"	2"	82
CLASP-25-190	5.5	112	190	320	301	172	73.5	375	270	159	765	490	2.5"	2"	84
	4	100	160	286	315	237	92	375	255	126	717	451	3"	3"	86
	5	100	160	286	315	237	92	375	255	126	717	451	3"	3"	87
	5.5	112	190	305	307	237	92	375	262	126	757	486	3"	3"	89
	7.5	132S	216	339	327	237	92	430	233	126	802	532	3"	3"	117
	10	132S	216	339	327	237	92	430	233	126	802	532	3"	3"	122



## Shear Pump

IDMC Shear pumps are efficient and rapid in operation and are capable of disintegrating the particles in fluids. The requirement of particle size reduction is achieved with the use of rapidly interchangeable workheads.

It is effectively used to break curd for making butter milk/drinking yoghurt, in circulation.

### Inherent Features

Interchangeable workheads

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Hygienic construction

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Easy maintenance

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Lower power requirements

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Reduces particle size

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Rapidly dissolves solids

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Options of both, single as well as double mechanical seals with ease of interchangeably

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Can be connected with feed pump for milk powder reconstitution

## Technical specifications

### Material and options

Product wetted steel parts (MoC)	1.4404 (AISI 316L stainless steel)
Wetted parts surface finish	R <sub>a</sub> up to 0.8 µm
Other parts & Motor Shroud	1.4301 (AISI 304 stainless steel)
Product wetted elastomers	EPDM / FPM
Rotary seal face	Carbon / SiC
Stationary seal face	SiC / SS

### Motor

3Ø, 2 poles, IP55, insulation class F, 50 Hz

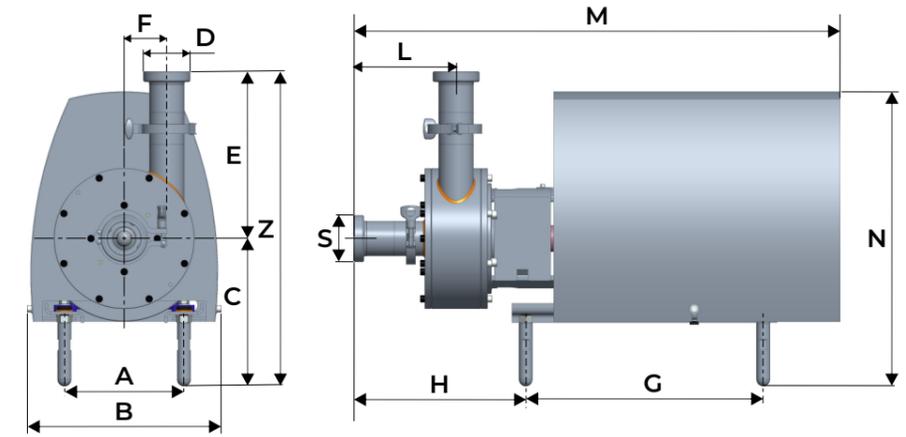
### Operating Data

Particle Size Reduction	up to 30 µm
Temperature range	-10°C to +140°C



### Double mechanical shaft seal

Water pressure inlet	Max. 200 kPa (2 bar)
Water consumption	0.5 - 1 LPM
Connections	Ø6 tube
End connection	DIN / TC / SMS



MODEL	POWER hp	FRAME Size	A	B	C	E	F	G	H	L	M	N	Z	S	D	Wt. (Kgs.)
SMP-0734 / 0736	7.5	132S	216	351	267	302	77	430	312	186	881	532	570	2.5"	2.5"	132
SMP-1034 / 1036	10	132S	216	351	267	302	77	430	312	186	881	532	570	2.5"	2.5"	137



# Inline Shear Mixer

This is effectively used for blending dry powder into water or any other liquid.

The Inline Shear Mixer (ISM) effectively forces powder into the liquid stream. This not only allows it to disperse and hydrate large volumes of powders but also can be used at higher temperature and with higher viscosity mixes.

## Inherent Features

Rapid powder mixing rate of up to 3 tons/hour

Hopper volume: 100 Liters

Produces agglomerate-free product consistently ensuring uniform mixing every time

Suitable for high-temperature operations with exceptional performance

Minimum aeration for uniform product quality

Modular construction offers versatility for various applications and batch sizes

Low power requirement without the need for additional pumps in case of short suction/distance. Connected power is similar to that of Shear Pump

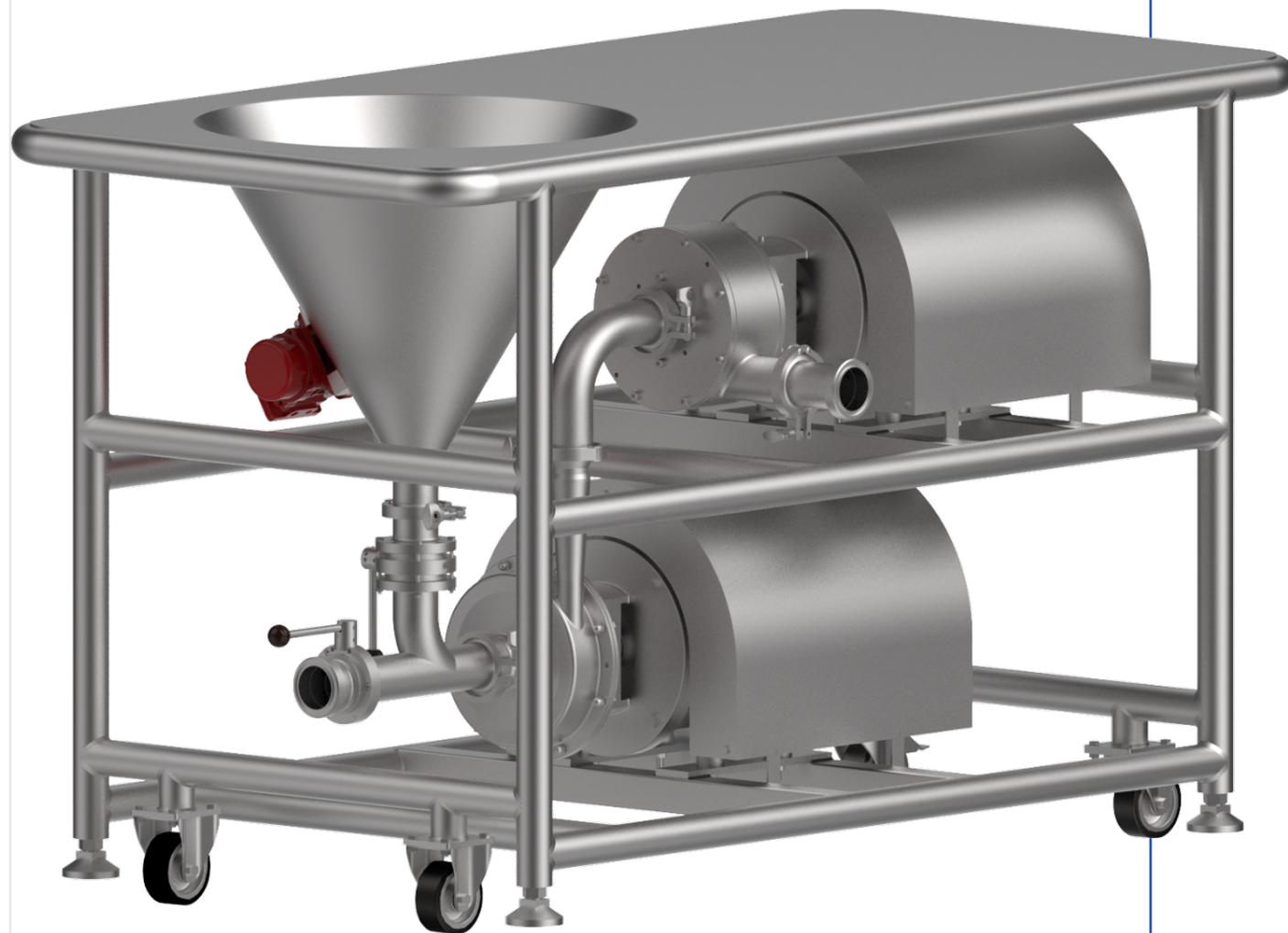
Parts in contact with the product AISI 316L (1.4404). Other steel parts AISI 304 (1.4301). Gaskets in contact with the product EPDM/FPM

Easy to install, operate and clean

## Dimension

1354mm (L) x 804mm (W) x 1209mm (H)





## Table Blender

IDMC table blender is used to dissolve dry/powders in recirculated liquids. It has got a centrifugal pump and Shear pump in series connected to powder hopper from where the powder is sucked into the liquid.

It is widely used for the reconstitution or stabilization of milk in the production of dairy products, and dissolution of sugar for the production of syrup and also for making Pectin Solution in the beverage industries.

### Inherent Features

Rapid powder incorporation rates of up to 3 tons/Hour

Hopper volume : 50 Liters

Magnetic grill and also vibratory motor can be provided on the hopper optionally

Produces agglomerate-free product consistently ensuring uniformity every time

Suitable for high-temperature operations with exceptional performance

Minimum aeration for uniform quality

Parts in contact with the product AISI 316L (1.4404). Other steel parts AISI 304 (1.4301). Gaskets in contact with the product EPDM/FPM

### Dimension

1815 mm (L) x 865 mm (W) x 1085 mm (H)