



I Applications

The MS pump is a multi-impeller centrifugal pump. This type of pumps is used for pumping fluids at low output and high pressure, thereby achieving a much higher performance than single-stage centrifugal pumps. Their applications include processes in the dairies and beverage industries, such as filter feeding, filling systems and feeding of exchangers. They can also be used to pump drinking or process water, CIP cleaning systems, and in the textile industry.

I Operating principles

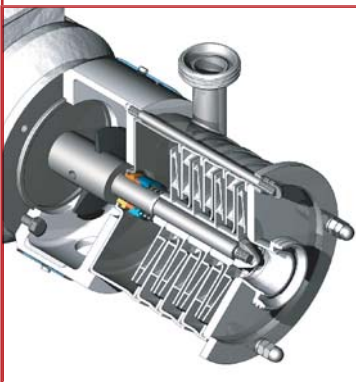
The MS pump consists of an inlet body and outlet body, and between the inlet and the outlet one to six successive stages can be added. Each stage consists of a casing and an impeller.

The first impeller receives the pumped material from the inlet area of the pump, and every next impeller receives the material from the preceding impeller, until the last impeller drives the product through the outlet of the pump.

Each stage impels to the fluid an amount of pressure according to the power of the impeller, and the differential pressure of the pump is the sum of the pressure added by each of the successive stages.

I Design and features

- Close-coupled pump without shroud
- Cold-formed bodies and covers
- DIN connections (standard)
- Cold-formed close impellers
- Motor approved according to IEC. B34 constructive design
- Single internal mechanical seal according to DIN 24960 L1K



I Materials

Parts in contact with pumped media:	AISI 316L
Lantern and bearing support	GG-22
Gaskets (standard)	EPDM (FDA)
Mechanical seal (standard)	SiC/SiC/EPDM

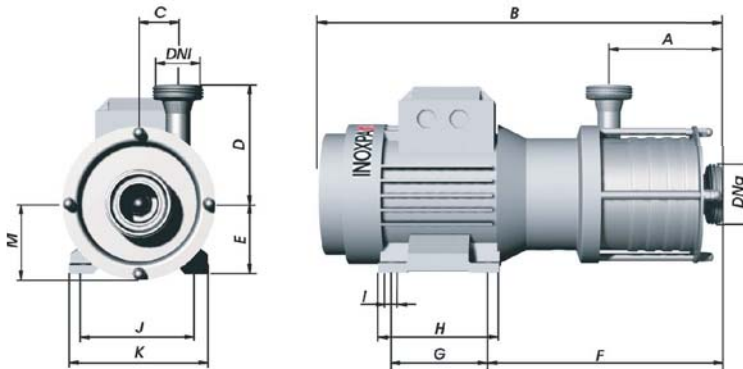
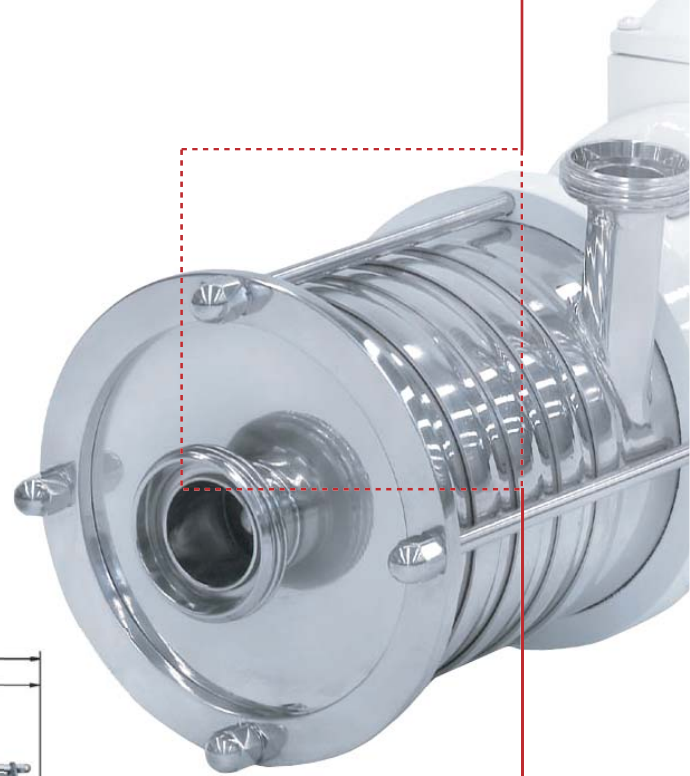
I Options

- Motor shroud and base plate in AISI 304L.
- Mechanical seal in SiC/C.
- Gaskets in FPM (Vitón[®]) and/or NBR.
- Motors with additional protection.
- Trolley with switchboard.



I Technical specifications

Max. flow	24 m ³ /h / 106 GPM
Max. head	110mcl / 360 ft
Max. suction pressure	4 bar / 58 PSI
Max. operating pressure	15 bar / 218 PSI
Max. working temp.	95 °C / 203°F
Max. speed	3600 min ⁻¹



PUMP TYPE	Motor		DNa	DNi	A	B	C	D	E	F	G	H	φ	J	K	L
	Size	KW														
MS-0/1	71	0,37	40	25	62	327	40	120	71	164	90	110	7	112	136	74
MS-0/2		0,55														
MS-0/3	80	0,75			99	406			80	231	100	125	10	125	154	
		1,1														
MS-0/4	90	1,5			118	424			90	265	125	150	140	170		
MS-0/5		2,2													136	
			508	302												
MS-0/6		155	526													

PUMP TYPE	Motor		DNa	DNi	A	B	C	D	E	F	G	H	φ	J	K	L
	Size	KW														
MS-1/2	90	1,5	40	25	91	438	58	122	90	252	100	150	10	140	170	91
MS-1/3		2,2														
MS-1/4	100	3			143	552			100	320	172	160	197			
MS-1/5	112	4												169	608	
MS-1/6					195	634										



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