



CRYOGENIC SUBMERGED PUMPS FOR MARINE APPLICATIONS

ARTIKA SERIES

FOR LIQUEFIED NATURAL GAS (LNG)



TECHNICAL FEATURES

- Available in 1 stage or multistages configurations (2, 3, 4 or 6)
- Helical inducer to minimize NPSH requested
- Designed to work submerged in a cryostat/sump or in cryogenic tank
- Integrated motor to be used with inverter/VFD
- Low maintenance due to the absence of elements subject to wear and the continuous LNG lubrication
- Reduced noise (<80 dB)
- Suitable for both continuous and discontinuous use

APPLICATIONS

- Low pressure (10/20 bar) marine engine fuel gas systems
- Stripping and spray applications
- Booster
- Ship to ship bunkering
- Cargo, FSRU, FSU

OPTIONAL ACCESSORIES

- Cryostat/sump equipped with safety valves, liquid and gas drain valves and other accessories
- Double feed through electrical connector
- Mounting bracket for in-tank installations
- Internal cryogenic power cables
- External power cables
- Junction box

TEST AND CHECKS

- Dimensional control of each mechanical component before assembly
- Performance test of each pump with LIN before delivery (with class and with customer)

STANDARDS

Designed according to:

- European Directive Machinery
- European Directive ATEX*
- EIGA/IGC/CGA guidelines
- Marine Class Certifications:
BV, DNV-GL, ABS, RINA, LR, CCS, NK, KR

*ARTIKA pumps and skids are ATEX certified.



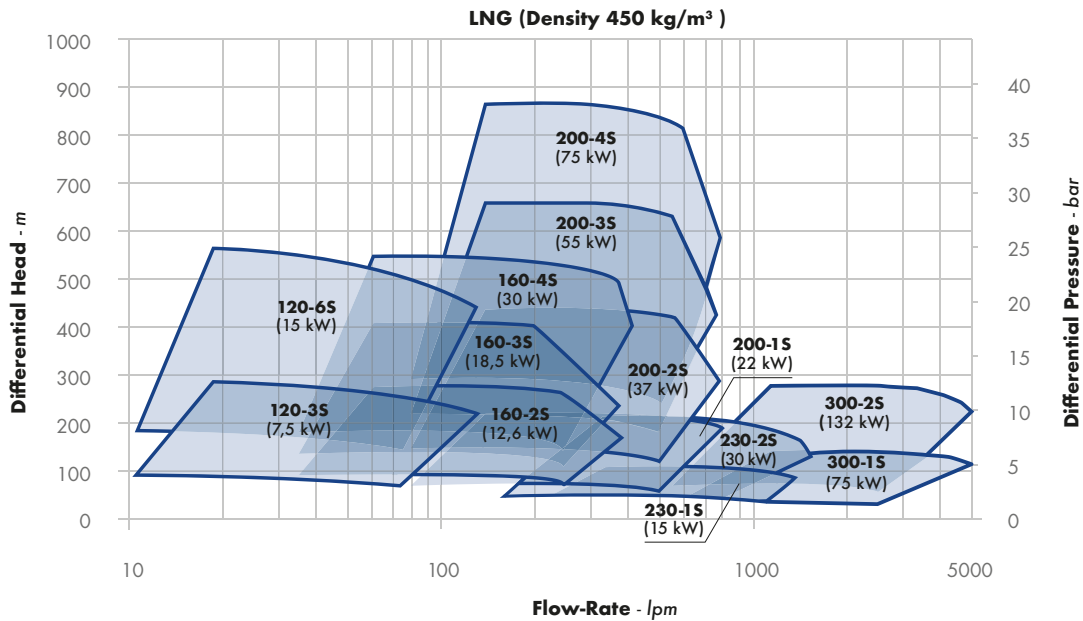
PERFORMANCES

ARTIKA SERIES

Model	N° of stages	Power installed Pm [kW]	Max operating speed rpm	Max frequency F [Hz]	Flow rate min-max (*) Q [lpm]	Max differential Head DH [m]	Maximum allowable working pressure MAWP [bar]	Weight W [kg]
ARTIKA 120	3S	7,5	6900	122	10 - 120	285	30	45
	6S	15	6900	122	10 - 120	570	30	55
ARTIKA 160	2S	12,6	5835	104	40 - 420	270	15	60
	3S	18,5	5820	104	40 - 420	405	22	75
	4S	22 - 30	5845	104	40 - 420	540	30	80
ARTIKA 200	1S	22	6015	104	80 - 880	215	30	135
	2S	30 - 37	6015	104	80 - 880	430	30	135 - 160
	3S	55	6035	104	80 - 880	645	35	180
	4S	60 - 75	6035	104	80 - 880	860	40	190 - 230
	5S	90	6000	104	80 - 880	1075	60	500
	6S	110	6000	104	80 - 880	1290	60	600
ARTIKA 230	1S	15	3665	63	130 - 1450	105	15	140
	2S	30	3650	63	130 - 1450	210	15	175
ARTIKA 300	1S	75	3000	50	550 - 5000	135	15	590
	2S	132	3000	50	550 - 5000	270	15	800

(*) Hydraulic performances

Data can be subjected to change



SUMP CHARACTERISTICS

Model	Volume [litres]	Weight [kg]	Design Pressure [bar]
ARTIKA 120	100	160	20
ARTIKA 160	100	160	20
ARTIKA 200	210	470	20
ARTIKA 230	210	470	20
ARTIKA 300	860	1800	12

Data can be subjected to change



Certified quality management system

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MARINE

