Ariete NS3030

Homogenizer & High Pressure Pump
Technical datasheet

The Ariete series is the state-of-the-art technology for powerful reliable high pressure machines and customized solutions. The Ariete machines, compliant to EU safety rules (CE standards) and built according to EN ISO 9001:2008 Quality System, are the best fit for pharmaceutical, dairy, food & beverage, biotechnology, chemical and cosmetics industries.

Liquid end

- High quality stainless steel and special high wear resistant materials for best mechanical and corrosion resistance performance

- 3-A and electropolished versions available
- Ball (PVB) and poppet valves (PVP) interchangeable into the same block design for maximum product handling flexibility
- Aseptic version compression block available as option, with sterile condensate packing flushing
- Various materials for pumping plungers
- Monoblock construction, up to 600 bar, forged high grade Duplex or Super Duplex SS alloy

Homogenizing valve

- One stage (standard on homogenizers) with pneumatic adjustment from the machine's control panel
- High efficiency homogenizing valve NanoVALVE™, based on advanced fluid dynamics concepts, available as option
- Engineered for easy maintenance and cleaning
- Second homogenizing stage as option
- Wear parts made of tungsten carbide, ceramics as option

engineering for
a better world

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Ariete NS3030

Homogenizer & High Pressure Pump

Available up to 1500 bar, suitable for CIP and SIP, the Ariete machines can be supplied with all necessary customizations for easy integration in any process line, sanitary or aseptic. The wide range of available materials, the low running speed and linear plunger velocity allow Ariete machines to perform at their best also on abrasive and viscous product.

Power end

- Cast iron power frame
- Heavy duty and reliable power frame housing the transmission elements
- AC motor drive
- Forced lubrication with gear pump, low oil pressure switch and oil cooling
- "V" belts drive and gearbox speed reduction unit
- Polished SS machine casing on 55 frame

Casing

- Made of polished stainless steel with sound proof lining
- Easy access and maintenance with removable panels
- Noise reduction execution (≤ 75dB (A)) available as option

Plungers

- Chrome coated stainless steel
- Tungsten carbide coated stainless steel
- Solid ceramic
- HCR Chromium Carbide coated stainless steel

Tools and spare parts

- Ordinary maintenance tools and one set of emergency spare parts supplied with the machine
- O&M manual and spare part list on CD-ROM

Pump valves

- High wear resistant Stellite™ alloy removable seats
- Ball type (PVB) or poppet type (PVP) in solid Stellite™
- Ceramic or tungsten carbide materials available as option
- Start/stop drive control
- Pressure trend diagram visualization
- Built-in safety protection against overpressure

Pressure measurement & control

- Sanitary design analog high pressure gauge
- Pressure transmitters and transducers available as option
- Overpressure relief valve installed on compression block

Product line connections

- DIN 11851, Tri-Clamp™, GEA Tuchenhagen Varivent™
- Others as option upon request

Main options on request

- High pressure pump version
- 2nd stage homogenizing valve
- Electric power board for fixed or variable capacity
- Machine automation and remote controls
- Aseptic execution
- 3-A execution, FDA approved gasket and cGMP documentation

Dimensional drawing
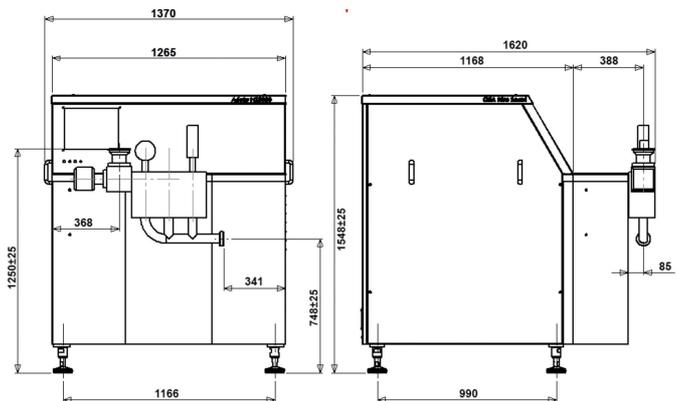
Overall dimensions (mm)

Performance

Pressure (bar)	Max Flow Rate (l/h)	Pressure (bar)	Max Flow Rate (l/h)
100	7500	500	1700
150	6000	600	1100
200	4200	700	800
250	3300	1000	650
300	2500	1200	500
400	1700	1500	330

Design features

Number of plungers	3
Maximum plunger diameter (Ø)	65 mm
Stroke	80 mm
Absorbed motor power up to	30 kW
Net weight	1550 kg
Gross weight	1850 kg
Lubricating and cooling water	90 l/h
Lubricating oil ISO VG 150	28 l
Gearbox oil EP 220	9 l