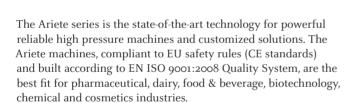


GEA Niro Soavi Technical Datasheet

Homogenizer & High Pressure Pump

Ariete NS3030

From the world leader in high pressure homogenization: absolute quality and reliability with advanced technical solutions for any process need.



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 NanoVALVETM, 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



Power end

- 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

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

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

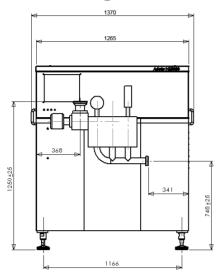
Plungers

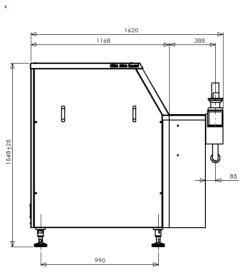
- · Chrome coated stainless steel
- \bullet Tungsten carbide coated stainless steel
- Solid ceramic
- · HCR Chromium Carbide coated stainless steel



Ariete NS3030

Dimensional drawing





Overall dimensions (mm)

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.

· Maximum plunger diameter (Ø): 65 mm

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

Power end

- · Cast iron power frame
- · Forced lubrication with low oil pressure switch and oil cooling
- Polished SS machine casing on 55 frame

Main options on request

- · High pressure pump version
- ullet 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

GEA Mechanical Equipment

GEA Niro Soavi

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PERFORMANCE

Pressure (bar)	Max Flow Rate (I/h)
100	7500
150	6000
200	4200
250	3500
300	2500
400	1700
500	1400
600	1100
700	800
1000	650
1200	500
1500	330

Each line refers to a different machine, which is designed for the specific maximum pressure and the specific maximum capacity.

TECHNICAL DATA

Number of plungers	3
Stroke	80 mm
Absorbed motor power up to	30 kW
Net weight	1300 kg
Gross weight	1595 kg
Lubricating and cooling water	90 l/h
Lubricating oil ISO VG 150	28
Gearbox oil EP 220	91

