

ZUWA

Series N2001 & U2001 Drill Driven Impeller Pumps

Aluminum or 316L SS, Flows to 60 LPM (16 GPM), Pressure to 4 Bar (58 PSI)

DESCRIPTION

The pump series N & U, manufactured in Germany, are driven with a drill. The shaft is fixed to the chuck of a regular electric or cordless drill equipped with a depth stop. The pump head is supplied with an adaptor that is secured to the drill depth stop rod to prevent the pump from spinning.

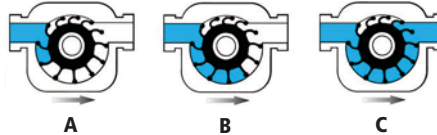
Series U is an aluminum housed multi-purpose pump designed for transferring clean or contaminated liquids. It is not suitable for handling abrasive or corrosive fluids.

Series N is a high quality 316L stainless steel pump with numerous applications in industrial plants and production facilities. It is the appropriate choice for transferring corrosive fluids.



PRINCIPAL OF OPERATION:

Flexible impeller pumps are displacement pumps. The rotor with flexible vanes is mounted concentrically in a circular housing which has a flattened area at one side. This provides the eccentric path for the impeller, thereby squeezing the flexible blades on this side.



A) The impeller rotation and the straightening of the vanes upon leaving the cam creates a vacuum on the suction side drawing the fluid into the pump chamber.

B) The rotating impeller transfers the liquid from the inlet to the outlet port of the pump.

C) The squeezing of the vanes against the cam causes pressure at the delivery side and the fluid is pressed out in continuous operation.



Impeller Materials	
*NBR (Perbunan®, Buna-N®)	water, antifreeze, heat transfer fluid, vegetable oil, grease
EPDM (Keltan®, Buna EP®)	high temperatures, for acids and bases
**CR (Neoprene®, Bayprene®)	useful for food industry applications
FKM (Viton®, Fluorel®)	oil, diesel, fuel oil, palm oil, soy bean oil, oil emulsives
Plastics (Desmopan®) (60°C Max.)	mineral and vegetable oils, diesel fuel, heat transfer fluid
*Most common with Aluminum Pumps **Most common with 316 SS Pumps	

SPECIFICATIONS

Technical Data	Models			
	U2001-A	U2001-B	N2001-A	N2001-B
Pump Housing	Aluminum (AlMgSi1)	Aluminum (AlMgSi1)	316L SS	316L SS
Pump Shaft	316L SS	316L SS	316L SS	316L SS
Impeller	NBR, EPDM FKM, CR or Plastic			
Flow	30 LPM (8 GPM)	60 LPM (16 GPM)	30 LPM	60 LPM
Max Pressure	4 Bar (58 PSI)			
Connections	3/4" NPTM	1" NPTM	3/4" NPTM	1" NPTM
Min. Drive Power	500 W	700W	500 W	700W
Max. RPM	2900			
Max. Temperature	90°C (194°F)			
Weight	0.6 kg	0.8 kg	1.5 kg	2 kg

Order Information	
Model	Description
U2001A-(N, E, C, F, P)	Alum. Pump/Drill Adaptor (NBR, EPDM, CR, FKM, Plastics Rotor)
U2001B-(N, E, C, F, P)	Alum. Pump/Drill Adaptor (NBR, EPDM, CR, FKM, Plastics Rotor)
N2001A-(N, E, C, F, P)	316 SS Pump/Drill Adaptor (NBR, EPDM, CR, FKM, Plastics Rotor)
N2001B-(N, E, C, F, P)	316 SS Pump/Drill Adaptor (NBR, EPDM, CR, FKM, Plastics Rotor)
11012300	Spare Part- Pump Drill Adaptor

-Dry Self Priming: Impeller pumps are dry self priming from a depth of three metres. Pre-filling is required for a suction depth of three metres and more. The maximum suction depth is 7 metres. Pumps can run dry for 60 seconds.

-Pulsation Free

-Versatile: Useful for many different fluids and applications. Materials of impellers, seals and pump housings can be selected according to the individual needs

-Easy Maintenance: For cleaning and maintenance work the pumps are quickly and easily disassembled. Replacement parts can be ordered individually. Low operation costs!

Typical Applications	
Series U	Series N
filling solar collectors	clean tanks
irrigation	cleaning ponds
rain water harvesting	delivering
domestic water supply	filtering
decanting barrels	dosing
draining waste oil	decanting
sewerage disposal	draining
car wash	chemicals
tank draining	acids
cooling lubricants	bases