

**fluimac**<sup>®</sup>  
pump solution



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**NEPTUNE**  
DRUM PUMPS

Made in  
Italy

## Manual hand pumps

Are always a useful and cost effective alternative to conventional electric or air operated drum pumps when only small quantities of media have to be removed out of canisters or drums or if the customer would use the drum pump only occasionally or rarely.

## Electric or air operated drum and container pumps

Drum and container pumps consist of a high-performance, internally or externally ventilated universal motor, which is also available in an explosion-proof version and a pump tube that is suitable for the application.

The pump tubes of drum pumps are available in PP, PVDF, ALUMINIUM, SS 316.

### POLIPROPYLENE (PP)

Are suitable for neutral, aggressive and hardly combustible liquids.

They are used specifically for pumping aggressive chemicals such as acids, alkalis or detergents.  
Drive shaft: Stainless steel 316 or hastelloy 2,4610.  
Media temperature: max. 50 °C.

### POLYVINYLIDENFLUORIDE (PVDF)

Are especially suitable for highly aggressive liquids such as concentrated acids and bases.

Drive shaft: Hastelloy 2,4610  
Media temperature: max. 90 °C.

### ALUMINIUM (Alu)

Are suitable for neutral and hardly combustible liquids.

With these pump tubes particularly mineral oil products up to a maximum viscosity of 1,000 mPas will be transferred.

Drive shaft: Stainless steel 316  
Media temperature: max. 90 °C.

### STAINLESS STEEL 316 Ti

Are used for all neutral, slightly aggressive liquids such as diluted acids, alkalis or detergents and thin fluid food.

Drive shaft: stainless steel 316.  
Media temperature: max. 90 °C.



ALU



PP



PVDF



SS



N-180



N-280



N-AIR 1



N-460

## PUMP TUBES MADE OF POLYPROPYLENE

**STANDARD TUBE LENGTHS**      700 mm | 1000 mm | 1200 mm



### PP pump tubes

Drive shaft made of stainless steel AISI 316 or hastelloy 2,4610.  
Hose connection 1" included.  
Maximum medium temperature 50 °C.

### POLYPROPYLENE WITH STAINLESS STEEL DRIVE SHAFT AISI 316

Pump tube diameter	Pump tube length	Version	Code
Ø 41 mm	700 mm	Rotor	26410070
Ø 41 mm	1000 mm	Rotor	26410100
Ø 41 mm	1200 mm	Rotor	26410120

### POLYPROPYLENE WITH HASTELLOY DRIVE SHAFT 2,4610

Pump tube diameter	Pump tube length	Version	Code
Ø 41 mm	700 mm	Rotor	21410070
Ø 41 mm	1000 mm	Rotor	21410100
Ø 41 mm	1200 mm	Rotor	21410120

### AXIAL ROTOR

#### Standard in all pump tubes

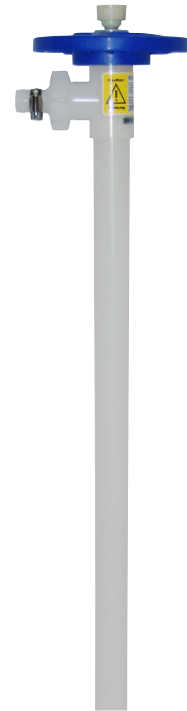
Pump tubes with rotor are used when high capacities and low heads are required.



**SPECIAL LENGTHS ARE AVAILABLE ON REQUEST**

## PUMP TUBES MADE OF PVDF

**STANDARD TUBE LENGTHS**      700 mm | 1000 mm | 1200 mm



### PVDF pump tubes

Drive shaft made of hastelloy 2,4610.  
Hose connection 1" included.  
Maximum medium temperature 90 °C.

### PVDF WITH HASTELLOY DRIVE SHAFT 2,4610

Pump tube diameter	Pump tube length	Version	Code
Ø 41 mm	700 mm	Rotor	23410070
Ø 41 mm	1000 mm	Rotor	23410100
Ø 41 mm	1200 mm	Rotor	23410120

### AXIAL ROTOR

#### Standard in all pump tubes

Pump tubes with rotor are used when high capacities and low heads are required.



**SPECIAL LENGTHS ARE AVAILABLE ON REQUEST**

## PUMP TUBES MADE OF ALUMINIUM

**STANDARD TUBE LENGTHS**      700 mm | 1000 mm | 1200 mm



### Aluminium pump tubes

Drive shaft made of stainless steel AISI 316.  
Hose connection 1" included.  
Maximum medium temperature 90 °C.

## ALUMINIUM WITH STAINLESS STEEL DRIVE SHAFT AISI 316

Pump tube diameter	Pump tube length	Version	Code
Ø 41 mm	700 mm	Rotor	24410070
Ø 41 mm	1000 mm	Rotor	24410100
Ø 41 mm	1200 mm	Rotor	24410120

## AXIAL ROTOR

### Standard in all pump tubes

Pump tubes with rotor are used when high capacities and low heads are required.



**SPECIAL LENGTHS ARE AVAILABLE ON REQUEST**

## PUMP TUBES MADE OF STAINLESS STEEL 316

**STANDARD TUBE LENGTHS**      700 mm | 1000 mm | 1200 mm



**Stainless steel = SS pump tubes with Ex approval, outside Ex-areas max. 90 °C**

Drive shaft made of stainless steel 316.

Hose connection 1" included.

 EC type examination certificate number ZELM 09 ATEX 0424X - Ex II 1/2 G c II B T4

Maximum medium temperature 90 °C.

### STAINLESS STEEL AISI 316 TUBE & SHAFT ATEX APPROVAL-ZELM 09 ATEX 0424 X EX III/2 G C II BT4

Pump tube diameter	Pump tube length	Version	Code
Ø 41 mm	700 mm	Rotor	22410070
Ø 41 mm	1000 mm	Rotor	22410100
Ø 41 mm	1200 mm	Rotor	22410120

### AXIAL ROTOR

**Standard in all pump tubes**

Pump tubes with rotor are used when high capacities and low heads are required.



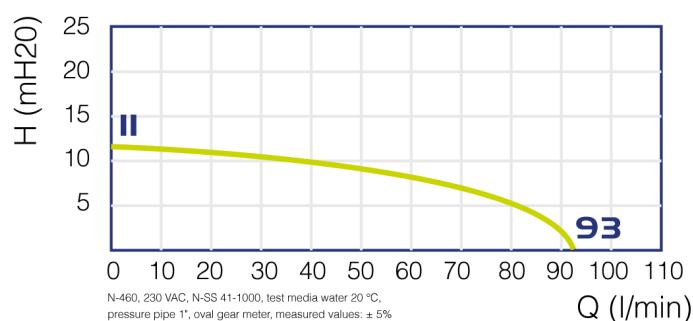
**SPECIAL LENGTHS ARE AVAILABLE ON REQUEST**

# N-180 & N-280

## N-180 230 Volt, 50/60 Hz, 640 Watt, IP 24


230 Volt, 50/60 Hz, 640 Watt, IP 24, double insulation protection class II, over load protection switch with integrated low voltage release. 5 m cable with plug. Speed control as option.

### PERFORMANCE CURVE N-180



### OPERATING DATA

Flow rate	up to 93 l/min
Head	up to 11 m
Viscosity	up to 600 mPas
Density	up to 1,5

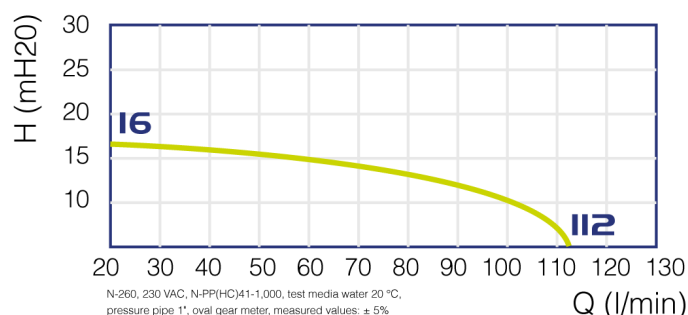
N-180	Version	Voltage	Code
	with LVR	230 V 1~,50/60 Hz, 640 W	1180 2301
	with LVR + SC	230 V 1~,50/60 Hz, 640 W	1180 2303

LVR: Low voltage release SC: Speed control

## N-280 230 Volt, 50/60 Hz, 825 Watt, IP 24,


230 Volt, 50/60 Hz, 825 Watt, IP 24, double insulation protection class II, over load protection switch with integrated low voltage release. 5 m cable with plug. Speed control as option.

### PERFORMANCE CURVE N-280



### OPERATING DATA

Flow rate	up to 112 l/min
Head	up to 16 m
Viscosity	up to 1,000 mPas
Density	up to 1,9

N-280	Version	Voltage	Code
	with LVR	230 V 1~,50/60 Hz, 825 W	1280 2301
	with LVR + SC	230 V 1~,50/60 Hz, 825 W	1280 2303

LVR: Low voltage release SC: Speed control

# N-AIR 1 & N-460

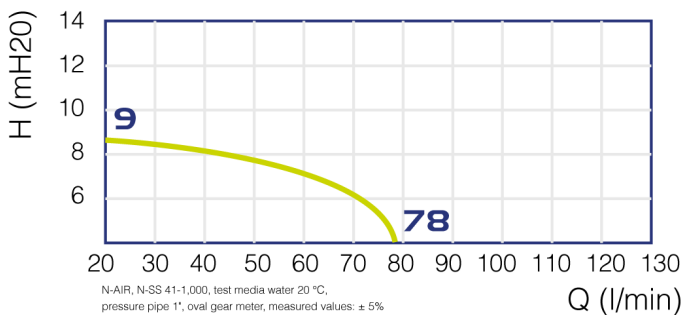
## N-AIR 1

**300 Watt at max 6 bar operating pressure, IBEX U05 ATEX B007 X**



300 Watt at max 6 bar operating pressure, with silencer and a brass ball valve for control compressed air. This regulates speed of the motor and varies pumping capacity.

### PERFORMANCE CURVE N-AIR 1





### OPERATING DATA

Flow rate	up to 78 l/min
Head	up to 9 m
Viscosity	up to 400 mPas
Density	up to 1,3



IBEX U05 ATEX B007 X

N-AIR 1	Voltage	Code
 	300 Watt at max. 6 bar operating pressure Air consumption under load 13 l/sec.	3001 0300

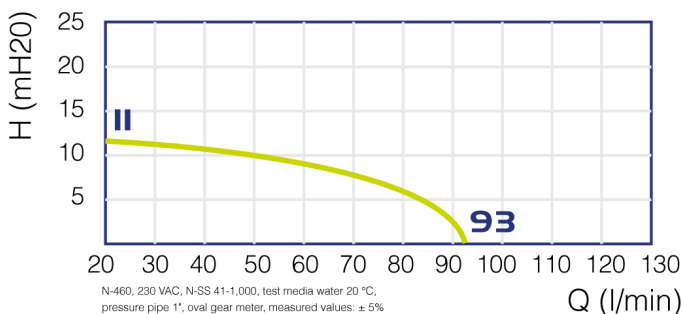
## N-460

**230 Volt, 50/60 Hz, 640 Watt, IP 55, II 2G Ex db IIC T6 Gb**



230 Volt, 50/60 Hz, 640 Watt, protection class II 2G Ex db IIC T6 Gb, IP 55, with integrated low voltage release, 5 m cable without plug. Optional with Ex-plug.

### PERFORMANCE CURVE N-280





### OPERATING DATA

Flow rate	up to 93 l/min
Head	up to 11m
Viscosity	up to 600 mPas
Density	up to 1,5



II 2G Ex db IIC T6 Gb

N-460	Version	Voltage	Code
 	with LVR	230 V 1~,50/60 Hz, 640 W	1460 2301

LVR: Low voltage release



# MANUAL PUMPS

Code



## N-04

Pump material: Polypropylene  
Shaft: Polypropylene  
Seals: depending on the media  
Flow rate: ca. 0,3 l/stroke\*  
Hose connection: 3/4"  
The telescopic suction tube is adjustable from 500 to 950 mm and has a diameter of max. 34 mm.

## APPLICATION

For acids (yellow), mineral oil products (blue), alkaline solutions (red) and thin liquid food (blue/white).

N-04 YELLOW	FKM	6004 0000
N-04 RED	EPDM	6004 0001
N-04 BLUE	NBR	6004 0002
N-04 BLUE/WHITE	PTE	6004 0003



## N-08

Pump material: PVDF  
Seals: PTFE  
Flow rate: 0.3 l/rotation\*  
Suction tube length: 3 x 35 cm  
Pump complete with discharge arc and drum adapter G 2".  
Regular PTFE lubrication required.

## APPLICATION

Hand-crank rotary pump for chemicals.  
The pump is suitable for thin fluid, highly aggressive media such as acids and alkalies.

6008 0000



## N-13

Material: pump housing made of cast iron  
Seals: NBR  
Flow rate: 0,25 l/rotation\*  
Pump tube diameter: 53 mm  
Suction tube length: 1000 mm; therefore suitable for smaller containers and 200 liter drums  
Pump complete with discharge arc and drum adapter G 2".

## APPLICATION

Metal hand crank rotary pump.  
The pump is suitable for diesel, heating oil, oils (up to SAE 90) and all other self-lubricating, non-aggressive and non-flammable media.

6013 0000



## N-16

Execution for fire brigade with flexible suction hose instead of a rigid tube.  
Suction hose DN 19 x 4; 1,5 m  
Discharge hose DN 19 x 4; 1,5 m  
Flow rate: app. 0,25 l/stroke\*  
In pump housing integrated drum adapters with M 64x4 and G 2" enable an easy fixing in drum.

## APPLICATION

Fire brigade hand pump  
ATEX compliant, single-acting hand pump that can be used for following media of hazard classes A I-III:  
Diesel, heating oil, fuel, petroleum, anti freezing liquid for cooler (undiluted), thin fluid mineral oils and rapeseed methyl ester.

6016 0000

## Code

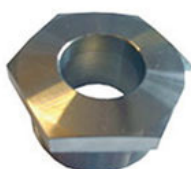


### Barrel adapter made of polypropylene

(PP and PVDF pump tube) for fixing the barrel pump in the bung hole of a drum, diameter of pump tube 41 mm, G 2"

Ø 41

9001



### Barrel adapter made of stainless steel

For secure fixing of drum pump in bung hole of a drum, diameter of pump tube 41 mm, G 2"

Ø 41

9002



### Emission proof drum adapter

For pump tube diameter 41 mm  
FKM-seals prevent emission of harmful gases and vapours out of the drum. A vacuum in drum is equalized by a valve.

made of polypropylene

made of brass

made of stainless steel 316.

9024

9025

9026



### Bounding ground set

Set consisting of 4 cables with connection clamps.

These ground wires with connection clamps are absolute necessary when pumping flammables or for use in hazardous areas.

This set can be used as an electric conductive connection between the drum pump and the container for earthing and balancing out the energy resources.

9003



### Strainer

For protection the barrel pump when abrasive particles are present.

Polypropylene. Size of slots 1,5 x 12 mm, tube-Ø 40, 41 or 42 mm

Stainless steel 316. Size of slots 1,5 x 20 mm, tube-Ø 41 mm

PP

9011

SS

9012

PVDF

9230

# ACCESSORIES

## Code



### Nozzle made of polypropylene

Housing and internal parts in polypropylene  
 Valve seat and seals made of FKM or EPDM  
 Rotatable hose connection  
 Flow rate: 80 l/min  
 Viscosity: 800 mPas  
 Operating pressure: 3 bar  
 Weight: 210 g

FKM	1"	9103
EPDM	1"	9106



### Nozzle made of PVDF

Housing and internal parts in PVDF  
 Valve seat and seals made of FKM  
 Rotatable hose connection  
 Flow rate: 80 l/min  
 Viscosity: 800 mPas  
 Operating pressure: 3 bar  
 Weight: 210 g

FKM	1"	9109
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### Nozzle made of stainless steel 316

Housing and internal parts in SS 316  
 Valve seat and seals made of PTFE  
 Hose connection 1"  
 Flow rate: 80 l/min  
 Viscosity: 900 mPas  
 Operating pressure: 4 bar  
 Medium temperature: max. 80 °C  
 Weight: 1 kg

	1"	9013
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### Nozzle made of aluminium

Housing and internal parts in ALU  
 Valve seat and seals made of NBR  
 Hose connection 1"  
 Flow rate: 60 l/min\*  
 Hose connection ALU

	1"	9032
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### Electronic flow meter FM I20

Turbine gear meter  
 are suitable for low viscous, water-like media and are  
 available in PP, PVDF and stainless steel.

PP	9020
PVDF	9021
SS	9008

