

JESSBERGER JP-280/JP-300

**Electrical Drum-
and Container-
pumps**

**with Seal - less
Pump Tubes**



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JP-280 / JP-300

Description

The electric drum and container pumps JP-280 and JP-300 consist of a non exproofed, internally ventilated (JP-280) alternatively an externally ventilated (JP-300) universal motor and a pump tube suitable for the application.

They are lightly, handy and powerful devices for all fluid or lightly viscous media.

The mobile and stationary applicable pumps are particularly suitable for intermittent use. A well engineered, technical clear construction assures a rational and reliable performance.

Different motors and pump tubes can be combined without any problems.

Flow rate can be adjusted over a speed control.

Example of Liquids

Hydrochlorid acid, soda lye, sulphuric acid, formic acid, sal ammoniac, photo developer, lime potash, fixing baths, acetic acid, phosphoric acid, fruit acids, nitrous acid, hydrofluoric, bleaching solution, water, lactic acid, boric acid, chromic acid, oils, soap solutions and a wide range of other liquids.

Operating datas JP-280 and JP-300

Delivery rate:	up to 180 l/min*
Delivery head:	up to 14 m (Rotor)* up to 28 m (Impeller)*
Temperature of liquid:	up to 120°C*
Viscosity:	up to 800 mPas*(JP-300) up to 1.000 mPas*(JP-280)

Universalmotor JP-280

230 Volt, 50Hz, 825 Watt, overload switch, on-/off switch, 5 m cable with shock-proof plug, splash-proof according to IP 24 (formerly IP 44), with or without low voltage release. Also available in 115 Volt, 50/60 Hz.

Universalmotor JP-300

230 Volt, 50Hz, 825 Watt, overload switch, on-/off switch, 5 m cable with shock-proof plug, splash-proof according to IP 54, totally enclosed fan cooled motor for use in corrosive environments, with or without low voltage release. Also available in 115 Volt, 50/60 Hz.



Electronic speed regulation

Via a hand-knob on the handle, the motor speed of the JP-280 and JP-300 can be electronically regulated according to the individual need. The electronic speed regulation is available as an option.



Order - No. 230 V :

JP-280	1280 2300	JP-300	1300 2300
230 V 1~, 50 Hz, 500 W without low voltage release		230 V 1~, 50 Hz, 825 W without low voltage release	
JP-280	1280 2301	JP-300	1300 2301
230 V 1~, 50 Hz, 825 W with low voltage release		230 V 1~, 50 Hz, 825 W with low voltage release	
JP-280	1280 2302	JP-300	1300 2302
230 V 1~, 50 Hz, 825 W with speed control without low voltage release		230 V 1~, 50 Hz, 825 W with speed control without low voltage release	
JP-280	1280 2303	JP-300	1300 2303
230 V 1~, 50 Hz, 825 W with speed control with low voltage release		230 V 1~, 50 Hz, 825 W with speed control with low voltage release	

Order - No. 115 V :

JP-280	1280 1150	JP-300	1300 1150
115 V 1~, 50/60 Hz, 825 W without low voltage release		115 V 1~, 50/60 Hz, 825 W without low voltage release	
JP-280	1280 1151	JP-300	1300 1151
115 V 1~, 50/60 Hz, 825 W with low voltage release		115 V 1~, 50/60 Hz, 825 W with low voltage release	
JP-280	1280 1152	JP-300	1300 1152
115 V 1~, 50/60 Hz, 825 W with speed control without low voltage release		115 V 1~, 50/60 Hz, 825 W with speed control without low voltage release	

*The physical values given are maximum values. The capacity of the respective pumps refers to water at 18°C and free flow, without hose barb.

Seal-less Pump Tubes

For different applications depending on the liquids, pump tubes are available in Polypropylene (PP), Stainless steel (SS 316Ti), Aluminium (Alu) and Polyvinylidenfluorid (PVDF).

The tubes are available in the standard lengths of 700, 1.000, 1.200, 1.500 and 1.800 mm. **Special lengths are available on request.**

The Pump tubes are connected to the motor via a hand-wheel and can be fitted and removed with a few rotations fast and easy without the need of any special tools.

Drum Pumps with useful accessories

The pump tube made of Polypropylene is available with a shaft in Hastelloy C 276 or in stainless steel 316Ti. All pump tubes will be delivered with a complete hose connection and hose barb 1". Further more up to a pump tube length of 1.200 mm we will supply a wall hanger to keep the drum pump in safe and stable custody.

Pump Tube lengths

in different measurements are making JESSBERGER pumps versatile. Most receptacles like canister, drum, tank or balloon with pump tubes up to 3.000 mm tube length can be handled without problems. We supply pump tubes in Polypropylene, stainless steel and Alu up to 3.000 mm and PVDF up to 1.800 mm.

Mixing Pump Tubes

With the functions mixing and pumping. Seal-less pump tubes made of PP with a pump tube diameter of 50 mm and pump tube lengths of 1.000 mm for 200 l drums and 1.200 mm for containers are available. The rotor is of PP, the shaft of Hastelloy C 276, the bearings are of high quality carbon, the hose connection PP 1". Also a mixing tube in SS 316Ti is available.

Axial wheel (Rotor)

Standard in all pump tubes.

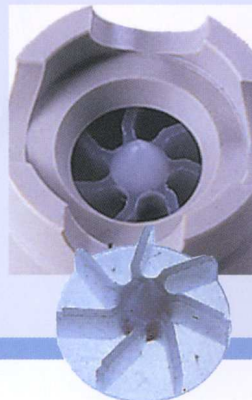
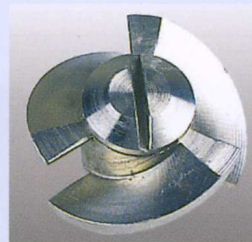
Pump tubes with a rotor will be used when big flow rates at low head are requested. A typical application is transferring from one container to another that are located at the same level.

The rotor made completely of SS 316Ti is available as an option for the SS pump tube. Questions regarding a reasonable use of a stainless-steel rotor we will answer any time.

Radial wheel (Impeller)

When high heads at low flow rates are required the pump tubes with an impeller are the right choice. For this version you will also need a modified pump foot. It has to be considered that the flow rate of a pump tube depends on the power of the used motor.

For stainless steel pump tubes also an impeller made of SS 316Ti is available.



700

1.000

1.200

1.500

1.800



The Universal Motors JP-280 and JP-300 are not EX-protected.

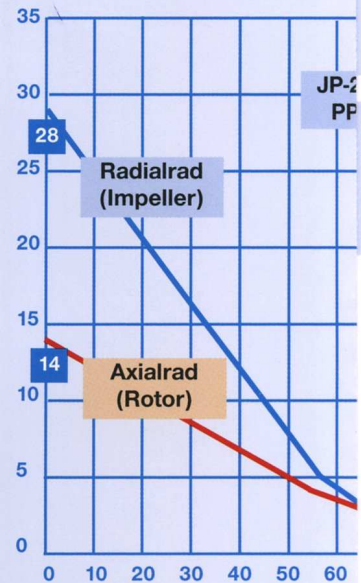
Therefore they can not be used in locations with explosion hazards and they are not suitable for pumping flammable liquids.

2.500

3.000

Every special tube length in PP, Alu or Stainless Steel can be supplied up to 3.000 mm.

2 · JP-280 / JP-300



Pump Tubes

Pump Tubes of Stainless Steel SS 316Ti

Suitable for high flammable liquids up to temperatures of class 4 and use in zone 0.*

Stainless steel pump tubes are mainly suited for all neutral and flammable, thin liquids like solvents, organic acids, dilute anorganic acids and alkalis.

Examples of suitable liquids: acetone, alcohol, ammonia, petrol, flammable solvents, nitrocellulose varnishes, perchlorethylene, trichlorethylene, toluene, potassic alkali, soda alkali, phosphoric acid up to 60 %, sulphuric acid up to 7,5 % and more than 96 %. Fruit juices, milk, salad oils as well as all liquids listed for aluminium alloy.

Polypropylene = PP-Pump Tubes

Suitable up to 50°C for aggressive and non flammable liquids as well as for alkalis, acids and neutral liquids.

Examples of suitable liquids: potassic alkali, soda alkali, formic acid, ammonia, boric acid, chromic acid up to 10 %, acetic acid, hydrofluoric acid up to 70 %, fruit acid, lactic acid, phosphoric acid, hydrochloric acid and sulphuric acid up to 80 %.

Fertilizer solvents, photographic developer, copper chloride and distilled water.

Polyvinylidenfluorid = PVDF-Pump Tubes

Suitable up to 100°C for aggressive and non flammable liquids as well as for acids, concentrated acids, alkalis and neutral liquids.

Examples of suitable liquids: Hydrobromic acid, chromic acid, chlorid acid, hydrofluoric acid, sodium hypochlorite, nitric acid up to 75 % and sulphuric acid.

In addition all liquids listed for PP Pump tubes except soda alkali.

Aluminium = Alu-Pump Tube

Suitable up to 120°C for neutral and non flammable liquids.

Examples of suitable liquids for pump tubes: diesel oil, fuel oil, hydraulic oil, drilling emulsions, liquid soap, liquid wax, water and non-flammable solvents.

All pump tubes will be supplied with complete hose connection, stainless steel hose clamp 1" and wall hanger - up to 1200 mm.

*Ex protection only together with an Ex-electric motor or compressed air motor.

Please have a look at our offer of useful accessories listed at the back of this page. Please don't hesitate to contact us. We are always at your disposal.

Pump Tubes Order-Numbers

Rotor



Impeller



Stainless Steel SS 316Ti Ø 32 und Ø 41 mm

SS 700 Ø 41 mm	2241 0070	2241 0071
SS 1.000 Ø 41 mm	2241 0100	2241 0101
SS 1.200 Ø 41 mm	2241 0120	2241 0121
SS 1.500 Ø 41 mm	2241 0150	2241 0151
SS 1.800 Ø 41 mm	2241 0180	2241 0181
SS 700 Ø 32 mm	2232 0070	2232 0071
SS 1.000 Ø 32 mm	2232 0100	2232 0101

Polypropylene Ø 41 mm with Hastelloy - Driving Shaft

PP (HC) 700	2141 0070	2141 0071
PP (HC) 1.000	2141 0100	2141 0101
PP (HC) 1.200	2141 0120	2141 0121
PP (HC) 1.500	2141 0150	2141 0151
PP (HC) 1.800	2141 0180	2141 0181

Polypropylene Ø 41 mm with Stainless Steel SS 316Ti - Driving Shaft

PP (SS) 700	2641 0070	2641 0071
PP (SS) 1.000	2641 0100	2641 0101
PP (SS) 1.200	2641 0120	2641 0121
PP (SS) 1.500	2641 0150	2641 0151
PP (SS) 1.800	2641 0180	2641 0181

PVDF Ø 41 mm

PVDF 700	2341 0070	2341 0071
PVDF 1.000	2341 0100	2341 0101
PVDF 1.200	2341 0120	2341 0121
PVDF 1.500	2341 0150	2341 0151
PVDF 1.800	2341 0180	2341 0181

Aluminium Ø 41 mm

ALU 700	2441 0070	2441 0071
ALU 1.000	2441 0100	2441 0101
ALU 1.200	2441 0120	2441 0121
ALU 1.500	2441 0150	2441 0151
ALU 1.800	2441 0180	2441 0181

Mixing Tube (PP) Ø 50 mm

PP (HC) 1.000	MP PP 0100
PP (HC) 1.200	MP PP 0120

Pump tubes lengths are indicated in mm. We reserve the right to make technical changes as well as changes in colour and shape.

0 / JP-300
Pump tube



Accessories

Nozzles

For filling and transferring neutral and aggressive liquids also in the pharmaceutical and food industry.

Nozzle, brass nickel plated, Teflon seal, rotating joint **Order-No. 9042**

Working pressure 4 bar *, Viscosity 750 mPas*, Flow rate 80 l/min*, Liquid temperature 80 °C*, Weight 1,4 kg, Hose connection 1" or 5/4", IG oAr AG.

Nozzle Polypropylene (3/4") **Order-No. 9017**

Nozzle Polypropylene (1") **Order-No. 9018**

Housing and internal pieces in black polypropylene PP, valve seats and o-rings are in Viton (FPM), spring in Titanium. Working pressure 2 bar*, Flow rate 100 l/min*, Liquid temperature 50°C*, Weight 0,26 kg, Hose connection 3/4" or 1".

Strainer of Polypropylene **Order-No. 9011**

Strainer of Stainless Steel **Order-No. 9012**

Recommended when pumping dirty or contaminated liquids with abrasive particles.

Barrel adaptors PP **Order-No. 9001**

Barrel adaptors Stainless Steel **Order-No. 9002**

Bonding, ground set **Order-No. 9003**

Stainless steel hose clamp **Order-No. 9004**

Emission proof drum adapter

The adapter prevents emission of harmful gases and vapours out of the drum.

PP **Order-No. 9024**

Brass **Order-No. 9025**

SS 316Ti **Order-No. 9026**

Safety clamp **Order-No. 9005**

for attaching the pump to open containers.

Wall bracket **Order-No. 9006**

Electronic flowmeter **Order-No. 9020**

Housing made of Polypropylene. Other materials: POM, PVDF or stainless steel.

Option: Volume pre-set, impulsoutput for further data processing.

Please ask for detailed information!

*All physical values given are maximum values. The capacity refers to water at 18° C and free flow. Design, form and colour modifications reserved.



Order-No. 9042



Order-No. 9017



Order-No. 9011



Order-No. 9012



Order-No. 9001
Order-No. 9002



Order-No. 9024
Order-No. 9025
Order-No. 9026

Order-No. 9003



Order-No. 9004



Order-No. 9005



Order-No. 9006



Order-No. 9020



Further scope of supply

Electric and pneumatic drum and container pumps

JESSBERGER Pump technology with internal and external cooled motors in different flow capacity ranges.

Seal-less pump tubes in stainless steel, Polypropylen, PVDF and ALU. Tube lengths 700, 1000, 1200, 1500 and 1800 mm. Also in special lengths to 3000 mm. Please ask us.



High viscosity pumps for drums and containers JP-700

are suitable for the use of a big number of liquids. Particularly suitable for highly viscous, neutral, aggressive or lightly flammable liquids also with or without solids up to 100.000 mPas.

All pump parts are in stainless-steel, stators are available in NBR, NBR light, VITON, HYPALON or PTFE.



Dosing pumps for viscous liquids for fluid, viscose, aggressive, neutral media with or without solids or fibres particles.

Horizontal Eccentric Screw Pumps

Pumps suitable for liquids with low or high viscosity, whether neutral or aggressive, with or without solids or fibres particles.



Hand-barrel pumps

are lightweight, powerful pumps for almost any fluid liquids.



Telescopic suction tube for PP or steel, 340-900mm

JP-02 for **Acids, Alkaline Solutions waterbased Chemicals.**

JP-03 for **Oil, Diesel, Alcohol, Kerosene, Anti freeze liquid, Soap solutions, Shampoo, Water etc.**

Telescopic suction tube of PP, 480-950 mm, for fluid liquids.

Suitable particularly for acids and lyes.

Pump tube INOX, 700-1000 mm, for highly fluid to oily liquids.

Suitable particularly for flammable liquids and solvents.

Electronic Flowmeter No. 9020

Housing made of PP. Volume pre-set, Signal-check for further data processing optional. For other materials please ask us.



Please contact:

Compressed Air-Operated Diaphragm Pumps JP-800

JESSBERGER pumps are suitable for nearly all areas of use. They are capable of pumping aggressive and flammable substances, highly viscous liquids also with solids or fibre particles and media containing gas.



Seal-Less Magnetic Driven Pumps

Available in various sizes, state-of-the-art construction, seal-less and environmentally friendly, suitable for a variety of uses, low noise level, long life, easy to maintain.



Vertical Centrifugal Pumps SERIE JP-820

executed in Polypropylen and PVDF

Horizontal Centrifugal Pumps SERIE JP-840

executed in Polypropylen and PVDF



Dosing Pumps SERIE JP-860

Piston-dosing pumps and Diaphragm-dosing pumps executed in Polypropylen and STAINLESS STEEL up to 860 ltr/h



Electric Diesel- and fuel oil pumps

are intended mainly for the refueling of agricultural machines, tractors, machines for construction work, truck, motorboats and all vehicles with diesel or light fuel (hazard class A III) engines.



The following hoses can be supplied:

Universal- and special hoses for chemical substances, PVC-hoses, PTFE-hoses, hoses for mineral oil and solvents, tissue-reinforced or electrically conductive.

Please ask for details.

Please ask for detailed information about the individual product groups of the JESSBERGER delivery program. Please make a cross below the requested figure.

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JESSBERGER

pumps and systems