

JP 400 Ex
Electrical
Drum - and
Container Pump
with Seal-less
Pump tubes

AtEx100

JP 400 Ex

Description

Drum- and container pumps in explosion proof execution guarantee highest possible protection for pumping high flammable liquids in hazardous locations.

Separate registrations according to Directive 94/9EC (Atex 100a) are necessary for the driving motor as well as for the pump tube.

The collector motor JP 400 in compact construction disposes of a tough aluminium case, is quiet and has been built and approved according to latest explosion protection Directives ATEX 100a (94/9 EC).

The collector motor is explosion proof according to Protection Directive II 2G EEx de II A T6.

EC Type Examination Certificate Number:
DEMKO O3 ATEX 135563X.

The universal motor is equipped with an on/off switch and simultaneously with an overload release circuit breaker.

The low voltage release serves as protection against automatic restart after interruption of distribution voltage.

The drum and container pump JP 400 Ex guarantees a sure and efficient pumping of thin and light viscous liquids.

It is especially suited for intermittent operation. Due to technically perfected and clear construction efficient and operationally reliable use is guaranteed.

Pump tubes from different materials but without Ex protection can be exchanged without problems.

The blower output can be reduced individually.

Operating dates

Delivery rate: up to 150 l/min*

Delivery head: up to 16 m WS *

Temperature

of liquid: up to 120° C

Viscosity: up to 600 mPas*

Fields of operation and Examples of Liquids

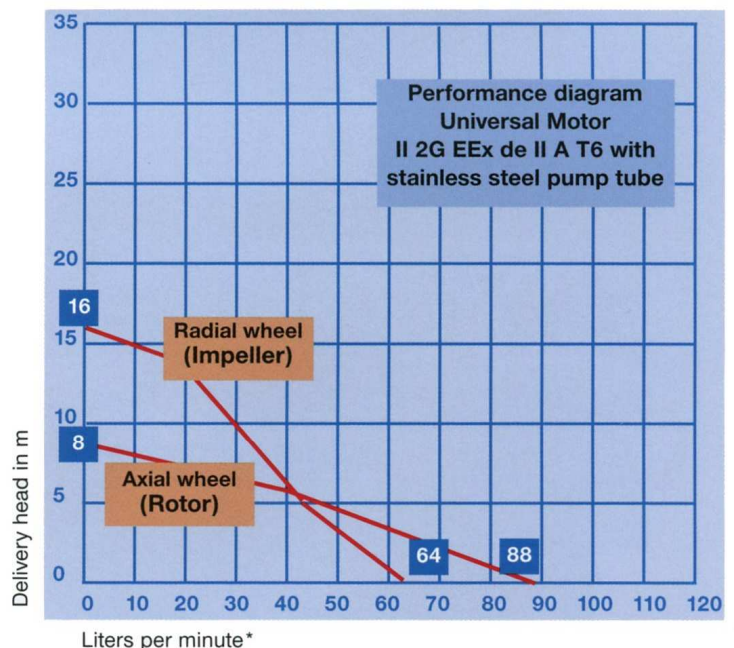
Typical fields of operation are to be found in the chemical-pharmaceutical and pharmacological industry, petrochemistry, varnish und colour industry, mechanical engineering and in galvanotechnics.

The drum and container pump JP 400 Ex with the appropriate pump tube for the respective liquid is pumping fuel oil, diesel oil, 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 acid, bleaching solution, water, lactic acid, boric acid, oils, soap solutions and a wide range of other liquids.

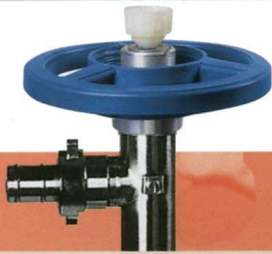


Universal Motor EEx de II A T6

230 V, 50 Hz, 550 Watt, 5 m cable, splash-proof according to IP 54, suppression of interference, on-/off switch, thermic overload switch, low voltage release, external ventilating, double isolation with grounded conductor.



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



The pump tube in stainless steel 1.4571/316Ti

with stainless steel hose connection 1" for easily flammable liquids (up to temperature class T4) as well as for all neutral and non-flammable liquids, fluid materials such as solvents, organic acids, dilute inorganic acids and solutions.

It is suited for application in fields with current and long lasting dangerous explosive atmosphere caused by gas, vapor or mist.

The pump tube

is built and approved according to Directive ATEX 100a (94/9 EC) for use in zone 0 (PTB-construction Certificate PTB 03 ATEX 400 X) and explosion proof according to system of protection II 1/2 GB IIB T4.

The pump tube is food grade approved.

The pump tube lengths

of 700, 1000, 1200, 1500 and 1800 mm are making JESSBERGER pumps versatile. Most receptacles like drum, canister, tank or balloon with a maximum pump tube length of 3.000 mm can be handled without problems. We are delivering stainless steel pump tubes up to a pump tube length of 3.000 mm.

All pump tubes are delivered with a wall hanger and stainless steel hose clamp 1" at no extra cost.

1.500

1.800

2.500
3.000



Seal-less Pump tubes

For different applications depending on the liquids, pump tubes are available in Polypropylen (PP), Aluminium (Alu) and Polyvinylidenfluorid (PVDF).

The pump tubes are available in the standard lengths of 700, 1000, 1200, 1500, and 1800 mm.

Special lengths are available on request.

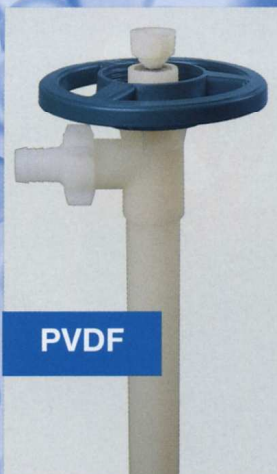
The pump tubes are connected to the motor via a hand-wheel and can be fitted and removed with a few rotations without the need of any special tools.

Polypropylen Pump Tube with HC- or stainless steel drive shaft,

Polyvinylidenfluorid - Pump Tube

Alu - Pump tube

All pump tubes will be supplied with hose-clamp 1", wall hanger and hose connection 1" - at no extra cost



PVDF



PP

ALU



These pump tubes are not explosion proof. Therefore they are not allowed to be used in explosion hazardous locations and are not suited for pumping of flammable liquids.

**JP 400 Ex
Order -
Number**

JP 400 Ex 1400 2301

**230 V 1-, 50 Hz, 550 W
with low voltage relase**

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin



EG-Baumusterprüfbescheinigung

- (1) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeter Atmosphäre - Richtlinie 94/9/EG
- (2) EG-Baumusterprüfbescheinigungsnummer
- (3) PTB 03 ATEX 4004 X
- (4) Gerät: Falspumpe Typ JP-SS...
- (5) Hersteller: Firma Dr. Jessberger GmbH
- (6) Anschrift: D-85591 Varnstetten, Föhrenweg 20
- (7) Die Bauart dieses Gerätes sowie die verschärfen zutragenden Ausführungen sind in der Anlage zu dieser Baumusterprüfbescheinigung festgelegt.
- (8) Die Physikalisch-Technische Bundesanstalt bescheinigt als benannte Stelle Nr. 01C2 nach Artikel 9 der Richtlinie des Rates der Europäischen Gemeinschaften vom 23. März 1986 (86/93/EG) die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konstruktion und den Bau von Geräten und Schutzsystemen zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang I der Richtlinie.
- (9) Die Ergebnisse der Prüfung sind in dem vertraulichen Prüfbericht PTB Ex C3-43049 festgelegt.
- (10) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit dem Protokoll der PTB "Explosionsschutz an Falspumpen" in Verbindung mit EN 1127-1 und EN 50074
- (11) Falls das Zeichen "X" hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Gerätes in der Anlage zu dieser Bescheinigung hingewiesen
- (12) Diese EG-Baumusterprüfbescheinigung bezieht sich nur auf Konstruktion und Bau des festgelegten Gerätes gemäß Richtlinie 94/9/EG. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Inverkehrbringen dieses Gerätes
- (13) Die Kennzeichnung des Gerätes muß die folgenden Angaben enthalten:



Zertifizierungsstelle Explosionsschutz
im Auftrag
Dr. H. Förster
Regierungsreferent



Seite 1/3

EG-Baumusterprüfbescheinigungen ohne Unterschrift und ohne Siegel haben keine Gültigkeit.
Anzeige in Änderungen hinsichtlich der Bescheinigung
Physikalisch-Technische Bundesanstalt

EC-TYPE EXAMINATION CERTIFICATE

- (1) Equipment or Protective System intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC
- (2) EC-Type Examination Certificate Number: DEMKO 03 ATEX 15563X
- (3) Equipment or Protective System: Flameproof Motor, Model JP 400-2
- (4) Manufacturer: Jessberger GmbH
- (5) Address: Föhrenweg 20, D-85591 Varnstetten, Germany
- (6) This equipment or protective system and any assignable variations done to it is specified in the schedule to this certificate and the documents therein referred to.
- (7) UL International Demko A/S, notified body number 0139 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- (8) The examination and test results are recorded in confidential report no. 135563.
- (9) Compliance with the Essential Health and Safety Requirements has been assessed by compliance with:
EN 50014:1997 E+A1+A2 EN 50015:2000 E EN 50015:2000 E
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-Type examination certificate relates only to the design, examination and test of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (12) The marking of the equipment or protective system shall include the following:



II 2 G EEx de IIA T4

On behalf of UL International Demko A/S Issued: 2004-06-07

UL International Demko A/S
3750 Hvide Sande
Denmark - 4010
Tel: +45 46880000

**Pump Tubes
Order -
Numbers**

Rotor



Impeller



Stainless steel 1.4571/Ti



SS 700 Ø 41 mm	2241 0070	2241 0071
SS 1000 Ø 41 mm	2241 0100	2241 0101
SS 1200 Ø 41 mm	2241 0120	2241 0121
SS 1500 Ø 41 mm	2241 0150	2241 0151
SS 1800 Ø 41 mm	2241 0180	2241 0181
SS 700 Ø 32 mm	2232 0070	2232 0071
SS 1000 Ø 32 mm	2232 0100	2232 0101

Polypropylen Hastelloy - Driving Shaft

PP (HC) 700	2141 0070	2141 0071
PP (HC) 1000	2141 0100	2141 0101
PP (HC) 1200	2141 0120	2141 0121
PP (HC) 1500	2141 0150	2141 0151
PP (HC) 1800	2141 0180	2141 0181

**Polypropylen with
Stainless steel 1.4571 - Driving Shaft**

PP (SS) 700	2641 0070	2641 0071
PP (SS) 1000	2641 0100	2641 0101
PP (SS) 1200	2641 0120	2641 0121
PP (SS) 1500	2641 0150	2641 0151
PP (SS) 1800	2641 0180	2641 0181

PVDF

PVDF 700	2341 0070	2341 0071
PVDF 1000	2341 0100	2341 0101
PVDF 1200	2341 0120	2341 0121
PVDF 1500	2341 0150	2341 0151

Aluminium

ALU 700	2441 0070	2441 0071
ALU 1000	2441 0100	2441 0101
ALU 1200	2441 0120	2441 0121
ALU 1500	2441 0150	2441 0151

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

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.

Accessories for JP 400 Ex

Nozzles

This nozzle provides controlled dispensing without splashing, also suitable for use in the pharma and food industries.

Nozzle, nickel-plated brass, PTFE seal and rotating joint

Operating pressure* 4 bar, Viscosity* 750 mPas, **Order no. 9042**
 Rate of flow* 80 l/ min,
 Medium temperature* 80°C, Weight 1.4 kg
 Hose connector 1" or 5/4"

Nozzle made of polypropylene PP

Housing and internal parts made of black polypropylene, valve seat and O-ring made of FPM, spring made of Hastelloy (C 22 Haynes original).
 Operating pressure* 2 bar, Viscosity* 750 mPas, **Order no. 9017**
 Rate of flow.* 100 l/ min, Medium temperature* 50°C, **Order no. 9018**
 Weight 0.26 kg, Hose connector 3/4" or 1"



Strainer Polypropylen **Order no. 9011**

Strainer Stainless steel **Order no. 9012**

Recommended when pumping dirty or contaminated chemicals where abrasive particles are present.

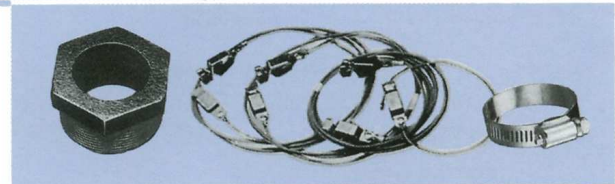


Barrel adaptors PP **Order no. 9001**

Barrel adaptors stainless steel **Order no. 9002**

Bonding, ground set **Order no. 9003**

Stainless steel hose clamp **Order no. 9004**



Emission proof drum adaptor

prevents emission of gases to environment. A pumping vacuum in the drum is balanced through the integrated valve.

PP **Order no. 9024**

Brass **Order no. 9021**

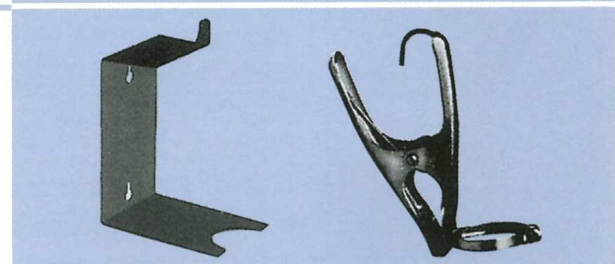
Stainless steel **Order no. 9026**



Wall bracket **Order no. 9006**

Safety clamp **Order no. 9005**

made of stainless steel for attaching the pump to open containers.



Electronic flowmeter

Housing made of PP, PVDF, POM or stainless steel, volume pre-set, signal-check for further processing of datas.

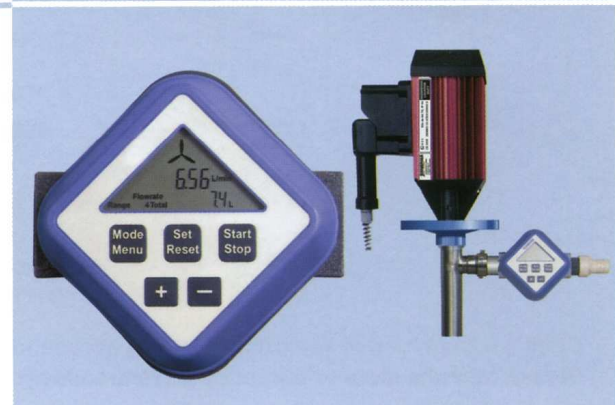
PP **Order no. 9020**

PVDF **Order no. 9021**

Stainless steel **Order no. 9023**

Please ask for detailed information!

*All physical values given are maximum values. The capacity of the respective pumps relates to water at 18 °C, flow rate in ltr./min ± 10%. We reserve the right to make technical changes or changes in shape and colour.



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.

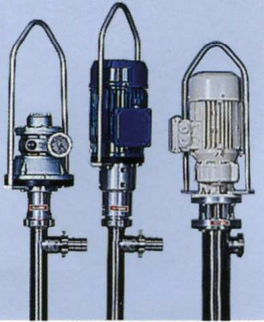
Seal-less pump tubes in stainless steel, Polypropylen, PVDF and ALU. Tube length from 700 to 1800 mm also in special length.



High viscosity pumps for drums and containers

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, viscous, 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 and water based Chemicals.

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

Telescopic suction tube of PP, 480-950mm, 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 Nr. 9020

Housing made of PP. Volume pre-set, signal-check for further processing of dates optional. For other material please ask us.



Please contact:

Compressed Air-Operated Diaphragm Pumps

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 POLYPROPYLENE, PVDF and PVC

Horizontal Centrifugal Pumps SERIE JP 840

executed in POLYPROPYLENE and PVDF



Dosing Pumps SERIE JP 860

Piston-dosing pumps and Diaphragm-dosing pumps executed in POLYPROPYLENE 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.

JESSBERGER GmbH

Foehrenweg 20 · D-85591 Vaterstetten

Telefon: +49(0) 81 06 - 30 67 67

Fax: +49(0)81 06 - 30 67 12

e - mail: info@jesspumpen.de

internet: www.jesspumpen.de

JESSBERGER

pumps and systems