ESSBERGER pumps and systems





JESSBERGER High viscosity pumps for drums and containers Series JP 700 SR, particularly suitable for intermittent operation.

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.

All pump parts are in stainless-steel (316 L), stators are available in NBR (Buna), NBR_light (Food grade), VITON (FKM), HYPALON (CSM) or PTFE.

The delivery rate is 12, 25 or 50 ltr/min.

The delivery head is 6 bar (60 meters) using the single-stage pump or 12 bar (120 meters) using the twin-stage pump.

The temperature of the liquid is up to max.140°C.

The max. viscosity for the SR-version is up to 30.000 mPas.

The SR-version are driven by JESSBERGER electric Universalmotors or pneumatic motors. The motors can be connected with the pump tube fast and easy without tools by means of a hand-wheel.

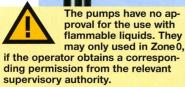
The standard tube length's are 700 mm, 1000 mm resp. 1200 mm. Special length's from 500 mm to 1600 mm are possible. Please ask us.

High viscosity pump end

Туре	Sizes	Flow rate	Disch. pressure	
JP 700.12.1	1.000 mm	12 I / min	6 bar	
JP 700.12.2	1.100 mm	12 I / min	12 bar	
JP 700.25.1	1.000 mm	25 I / min	6 bar	
JP 700.25.2	1.100 mm	25 I / min	12 bar	
JP 700.50.1	1.000 mm	50 l / min	6 bar	

SR - Version (with planetary gear) approx. 700 rpm. Available air motors: JP AIR 2, JP AIR 3, and electric motors: JP 280, JP 300, JP 320.

Motors





JP AIR 2

300 W at max. 6 bar operating pressure

Compressed air motor with starting button on the handle. The motor starts running and the pump is transferring liquids when the button is pressed.



JP AIR 3

400 W at max. 6 bar operating pressure

Compressed air motor, stainless steel housing, with plug valve at air intake for compressed air control. This regulates the motor speed and varies the pumping capacity.



JP 280 / JP 300

825 W Universal Motor

230/115 V 50-60Hz

Double isolated, category II, Splash-proofing according to IP 44 (JP280) according to IP 54 (JP300) On/off switch, Overload protection switch



JP 320

800 W Universal Motor

230/115 V 50-60Hz

Double isolated, category II, Splash-proofing according to IP 54. On/off switch, Overload protection switch



pumps and systems

JESSBERGER High viscosity pumps for drums and containers JP 700 DR A

are versatile, robust and extremly powerful pumps. They are suitable for the use of fluid to highly viscous liquids such as mud, paste, soap, shampoo, honey, sirup, marmelade, ketchup etc. up to 100.000 mPas. Particularly suitable for continuous operation.

Pump tubes are made of stainless steel SS316L

The pump tubes are available with mechanical seals or with glands.

Stators are available in NBR (Buna), NBR light (Food grade), VITON (FKM) Hypalon (CSM) or PTFE.

The weight of the pumps is depending on the tube length and drive 15-25 kg.

Pump-tubes, Ø 54 mm, hose connection G 1 1/2"

Туре	Sizes	Flow rate I/min	Delivery head
JP 700 DR	700 mm	12/25/50	60 - 120 m
JP 700 DR	1.000 mm	12/25/50	60 - 120 m
JP 700 DR	1.200 mm	12/25/50	60 - 120 m

DR - Version (speeds will be adjusted individually according to application). Motors: Pneumatic motors JP AIR4 (0,5 kW), JP AIR 6 (1,0 kW) and JP AIR 8 (1,5 kW). Three-phase motor, three-phase gear motor and three-phase variable gear motor. Speeds will be adjusted individually according to application.

The pumps have no approval for the use with flammable liquids. They may only used in Zone 0, if the operator obtains a corresponding permission from the relevant supervisory authority.





Three-phase motor 0,37-2,2 kW



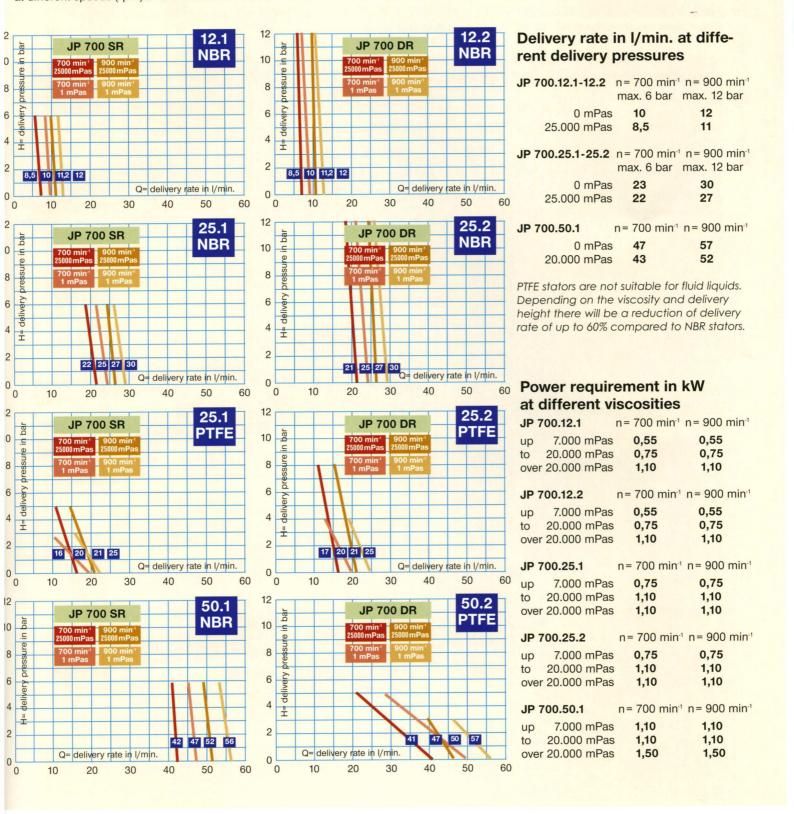
Tree-phase gear motor



Pneumatic motor

Performance chart JP700 SR / JP 700 DR

The flow charts below show in various examples the flow rates for a Elastomer stator (NBR) as well as for a PTFE stator (solid mattters) at different speeds (rpm) and viscosities



pumps and systems



Selection of stators (valid for all pumps)

NBR black (Perbunan), max. 90 °C, suitable for liquids containing oils and fats, alcohol and aqueous solutions.

Not resistant to acids, caustic solutions and solvents.

NBR white (Food grade), max. 90 °C, suitable for liquids containing oils and fats, alcohol and food.

Not resistant to acids, caustic solutions and solvents.

CSM (Hypalon), max. 90 °C, suitable for liquids containing acid- and caustic solutions. Not resistant to oils, fats and solvents.

Viton (FKM), max. 150 °C, high chemical resistance.

PTFE (Teflon), max. 150 °C, high chemical resistance, food, pharmaceutical and cosmetic products.



Information needed to chose the right high viscosity pump

Spezification of the liquid Viscosity and operating temperature of the liquid Density

Required delivery rate **Delivery** head (incl. pipeline losses)

Content as well as typ and size of solid matters

Operating hours sper day Will the pump be used mobil or stationary, vertical or horizontal?





JESSBERGER drum- and container pumps JP 700.80.1 / 80.2 / 150.1 / 150.2

Are suitable for the use of liquids with low and high viscosity, neutral or agresssiv, with or without solids.

Pump tubes in stainless steel SS316L, pearl-blasted surface, max. Ø 105 mm, max. tube length 1600 mm, hose connection male thread G2".

Flexible shaft of Polypropylen with 30% GF

Rotor of stainless steel SS316L

Flexible shaft of stainless steel ss316L

Material of shaft seal:

Mechanical seal of chrome/carbon or SiC/SiC, O-rings in Viton or FEP, alternativ: Gland of PTFE

Stators NBR (Buna), NBR light (food grade), Hypalon (CSM), Viton (FKM), PTFE (Teflon)

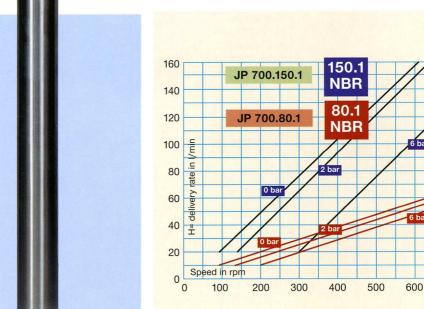
Pump lantern of Polyamid or Aluminium.

Divergence in food grade execution:

Outlet connection milk thread, coupling rod and rotor in stainless steel ss316L polished, pin joints open, lantern Aluminium.

6 bar

700



The pumps have no approval for the use with flammable liquids. They may only used in Zone 0,

if the operator obtains a corresponding permission from the relevant supervisory authority.

JESSBERGER Horizontal high viscosity pump JP700 H

are suitable for the use of liquids with lower and higher viscosity, neutral or agressive, with and without solids.

The pump tube is of stainless steel ss316L, with polished surface, the max. diameter is 105 mm, the max. length 1600 mm.

The flexible shaft is made of Polypropylen 30% GF or of stainless steel ss316L, also the rotor is of stainless steel ss316L.

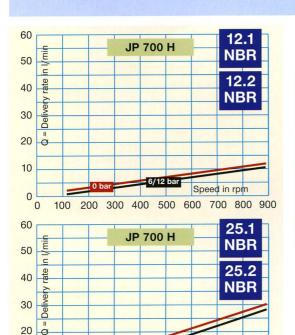
Material of shaft seal: Mechanical seal of Chrome/carbon or SiC/SiC. O-rings in Viton or FEP. Alternative: Gland of PTEE. Stator sleeve in stainless steel ss316L, Pump lantern in Aluminium.

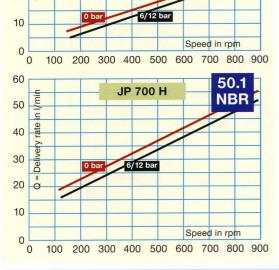
Horizontal High viscosity pumps

Driven by three-phase motor, three-phase gear motor, three-phase variable gear motor, protection class IP 55

Outlet connection: male thread G 1 1/2" Inlet connection: female thread G 1 /4"

Туре	Tube length	Delivery rate	Pressure
JP 700 H.12.1	1.000 mm	12 I / min	6 bar
JP 700H .12.2	1.100 mm	12 l / min	12 bar
JP 700 H.25.1	1.000 mm	25 l / min	6 bar
JP 700 H.25.2	1.100 mm	25 l / min	12 bar
JP 700 H.50.1	1.000 mm	50 l / min	6 bar







Food-grade execution:

Immersion tube in stainless steel ss316L polished, pin joints open. Milk-thread connections DIN 11851 easy to dismantle, CIP-connection (optionally). Stators: NBR light, EPDM light or PTFE. Base plate in mild steel, alternative in stainless steel.



JESSBERGER High viscosity Dosing pump Typ V / Typ G

are suitable for the use of liquids with low and high viscosity, neutral or agressive, with or without solids.

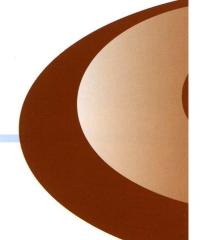
All pump parts in stainless steel ss316L, stators are available in NBR (Buna), NBR light (Food grade), Viton (FKM), Hypalon (CSM). Available with mechanical seal or gland.

Delivery rate depending on the type up to 750 l/min. **Delivery head** max. 12 bar. **Max. temperature of liquid** up to 140 °C. **Viscosity** up to 100.000 mPas.

High viscosity Dosing pump Typ V						
	Туре	ltr/h	rpm/min ⁻¹	kW	Pressure	
Drive: Variable gear motor 230/400V, 50 HZ, protection IP 54	JP 704 V	1,5 - 27	25 - 1.200	0,18	12 bar	
	JP 706 V	1,5 - 27	25 - 1.200	0,18	12 bar	
	JP 706 V	1,5 - 27	25 - 1.200	0,25	12 bar	
	JP 708 V	3 - 110	25 - 1.200	0,25	12 bar	
	JP 710 V	24 - 180	149 - 1.040	0,37	12 bar	
	JP 710 V	24 - 180	149 - 1.040	0,55	12 bar	
	JP 715 V	100 - 750	149 - 1.040	0,55	9 bar	

High viscosity Dosing pump Typ G						
Drive: Gear motor frequency controlled 230/400V, 50 Hz, protection IP 54	Туре	ltr/h	rpm/min ⁻¹	kW	Pressure	
	JP 704 G	1,5 - 16	78 - 780	0,25	12 bar	
	JP 706 G	3 - 33	78 - 780	0,37	12 bar	
	JP 708 G	3 - 66	78 - 780	0,37	12 bar	
	JP 708 G	3 - 66	78 - 780	0,55	12 bar	
	JP 710 G	12 - 132	78 - 780	0,55	12 bar	
	JP 715 G	100 - 132	78 - 780	0,75	9 bar	





Further scope of supply

Please ask for detailed information about the individual product groups of the JESSBERGER delivery program.

Hand-barrel pumps

are lightweight, powerful pumps for almost any fluid liquids.

The simple design guarantees a safe and easy filling of smaller quantities.

Accessories are available.

Type

Pump made of

Pump tube Ø

App.cap./stroke

Pump tube length



with telescopic suction tube for

> Oil, Diesel, Alcohol, Kerosene, Anti freeze liquid, Soap solutions Shampoo, Water etc.



JP 03

PP/steel

0,3-0,45 Ltr.

40 mm

340-900 mm



Hand pump

with telescopic

suction made

of PP for fluid

liquids

Suitable

particularly for

acids and lyes.

JP 04

PP

0,3 Ltr.

34 mm

480-950 mm

Universal usable, robust hand pump for highly fluid to

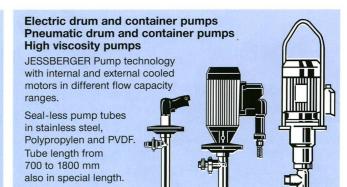
oily liquids. Suitable particularly for flammable liquids and solvents.

JP 05

INOX 0,3-0,6Ltr.

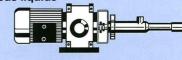
32 mm

700/1.000 mm



Dosing pumps for viscous liquids

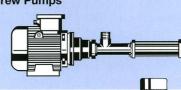
For fluid, viscouse, aggressive, neutral media with or without solids or fibres paricles.



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Horizontal Eccentric Screw Pumps

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





Centrifugal



SERIE JP 840

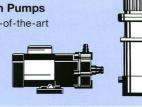
Horizontal Centrifugal **Pumps**

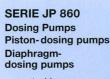
executed in POLYPROPYLENE and PVDF



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.



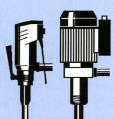


executed in POLYPROPYLENE (and STAINLESS STEEL up to 860 ltr/h



Electric Diesel- and fuel oil pumps: Protank 25 mobile and **Protank 50 stationary**

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



protank 25 protank 50



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

Order-No.:

PP: Nr. 9020, PVDF: Nr. 9021, POM: Nr. 9022, stainless steel: Nr. 9023

Please ask for our Flowmeter leaflet!

Compressed Air-Operated

Diaphragm Pumps. JESSBERGER compressed air diaphragm 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.



The following hoses can be supplied:

Universal- and special hoses for chemical substances, PVC-hoses, PTFEhoses, hoses for mineral oil and solvents, tissue-reinforced or electrically conductive. Please ask for details.

Please contact:

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e - mail: info@jesspumpen.de internet: www.jesspumpen.de

