



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.

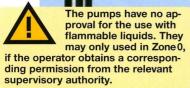
The standard tube length's are 700 mm, 1000 mm resp. 1200 mm. Special length's from 500 mm to 1600 mm are possible. Please ask us.

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 I / 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

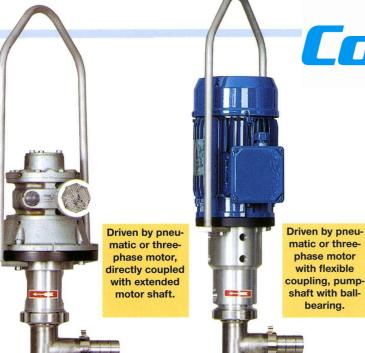


JP 320

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



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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.

Motors



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



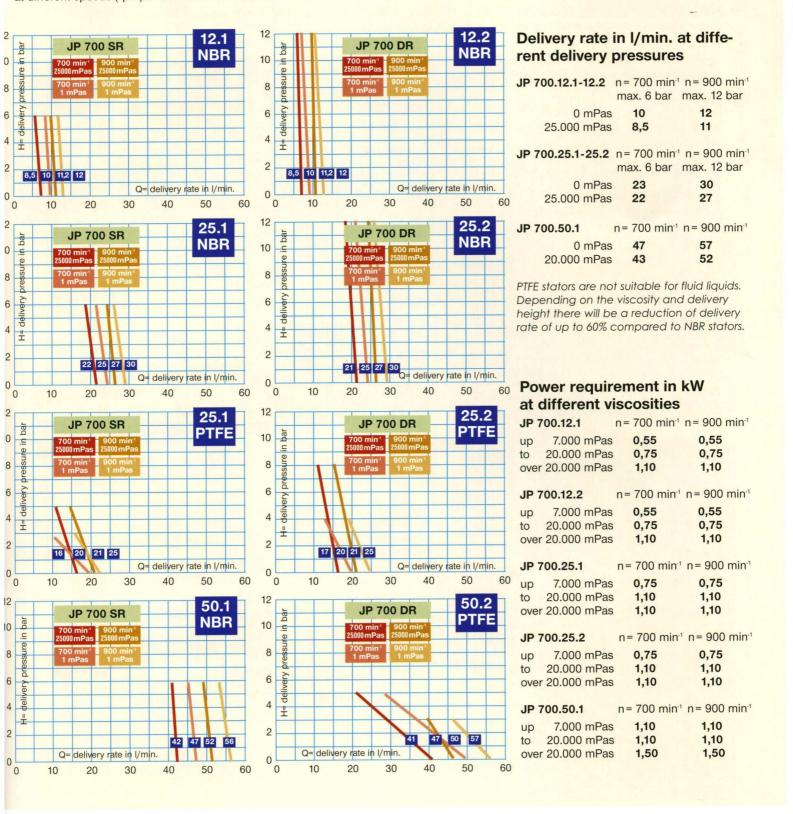
Tree-phase gear motor



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







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

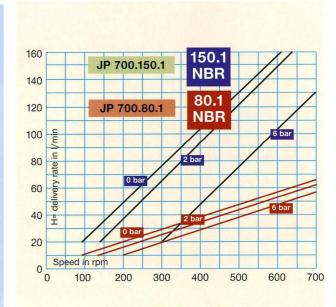
Stators NBR (Buna), NBR light (food grade), Hypalon (CSM), Viton (FKM), PTFE (Teflon)

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.





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