JESSBERGER
pumps and systems

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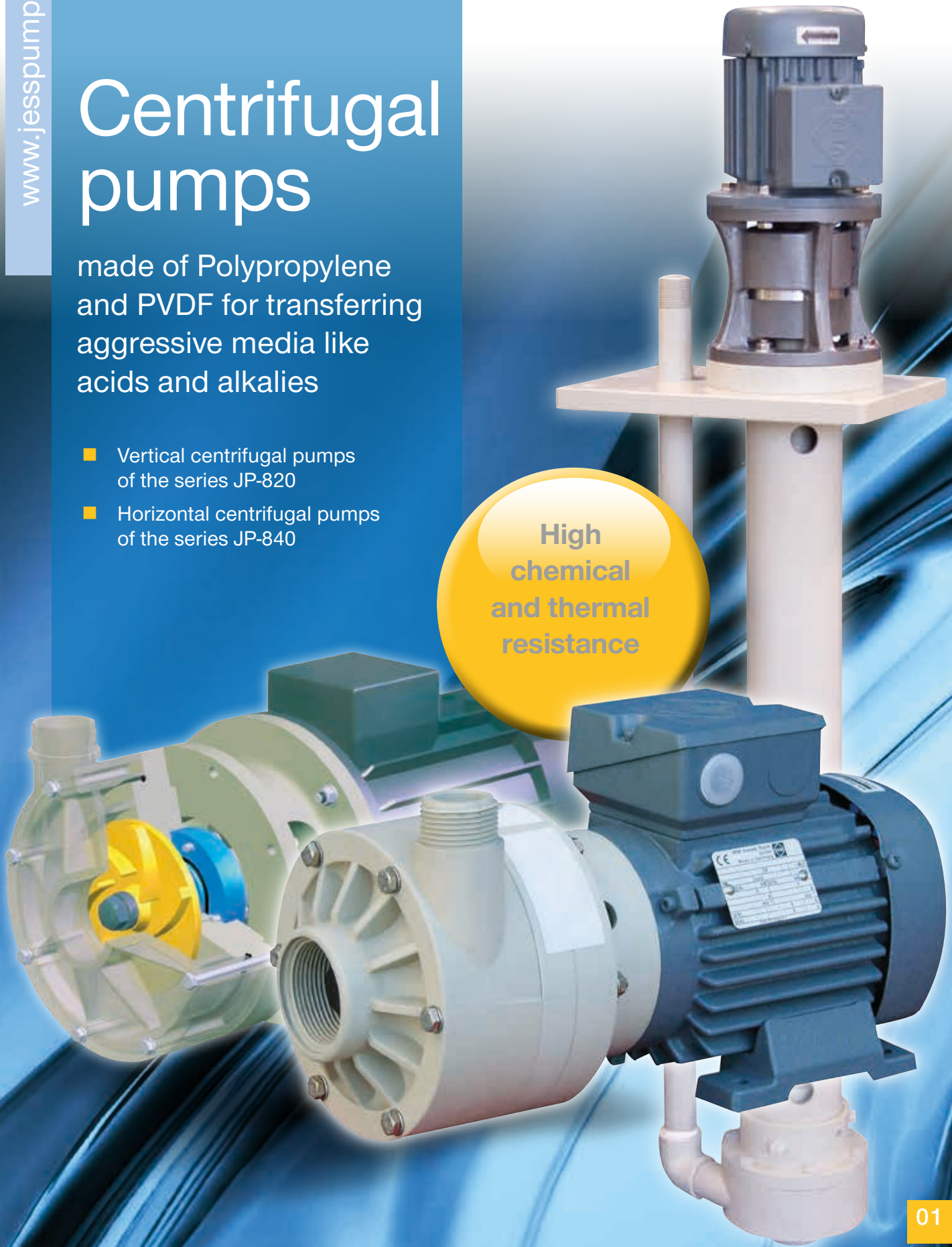
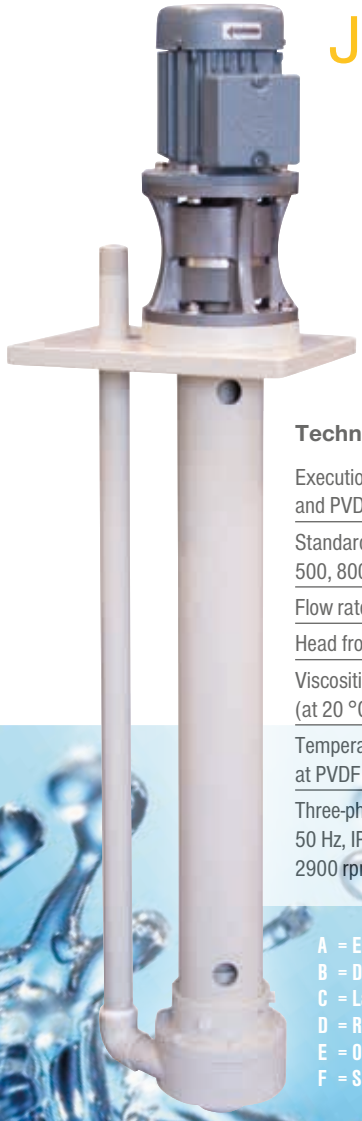
Centrifugal pumps

made of Polypropylene and PVDF for transferring aggressive media like acids and alkalies

- Vertical centrifugal pumps of the series JP-820
- Horizontal centrifugal pumps of the series JP-840

High chemical and thermal resistance





JP-820 Vertical centrifugal pumps

Especially suitable for high aggressive media like acids and alkalies

These vertical centrifugal pumps are operated by a direct-drive motor (max. 3.000 rpm) and have high performance data regarding flow rate (6 to 75 m³/h) and head (7,5 to 38 m). They are especially suitable for a fast transfer of chemicals when emptying containers or tanks.

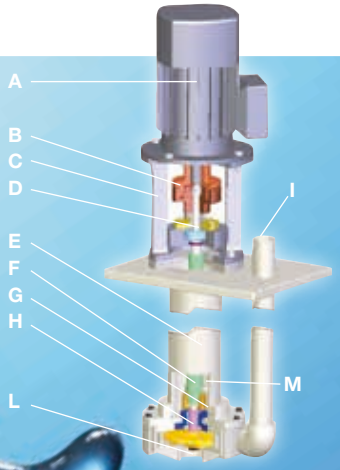
Centrifugal pumps of series JP-820 will be mainly used for fixed installations while the pump column is immersed directly in the tank. The special construction of these pumps avoids the use of internal mechanical seals (that often have to be replaced) and ensures that any leakages will be collected in the tank. The open impeller allows even continuous pumping of extremely dirty liquids or media containing small solids. The maximum viscosity for these centrifugal pumps is 500 mPas (at 20 °C) and the maximum temperature of the medium 65 °C at PP or 95 °C at PVDF.

The availability of different materials of construction – depending on chemical and thermal resistance of medium or environment – guarantees an absolute reliability of operation as well as a long life time of the pump.

Technical Data

Executions in Polypropylene and PVDF
Standard column lengths in 500, 800, 1.000 and 1.250 mm
Flow rates from 6 to 75 m³/h
Head from 7,5 to 38 m
Viscosities up to 500 mPas (at 20 °C)
Temperatures at PP max. 65 °C, at PVDF max. 95 °C
Three-phase motor, 230/400 Volt, 50 Hz, IP55, F Class, 2-poles, 2900 rpm

A = Electric motor
B = Drive coupling
C = Lantern
D = Radial bearing
E = Outer column
F = Shaft sleeve
G = Ceramic bushing
H = Impeller
I = Discharge side
L = Suction side
M = Bushing



Type	Motor size
JP-820.80	0,37 kW
JP-820.90	0,55 kW
JP-820.95	0,75 kW
JP-820.110	1,1 kW
JP-820.120	1,5 kW
JP-820.130	2,2 kW
JP-820.140	3,0 kW
JP-820.150	4,0 kW
JP-820.155	5,5 kW
JP-820.160	7,5 kW
JP-820.180	11,0 kW

Pump principle

The impeller is connected over the shaft with the direct-drive electric motor. It rotates at a preset speed and produces a centrifugal effect (suction on the inlet and discharge on the outlet).

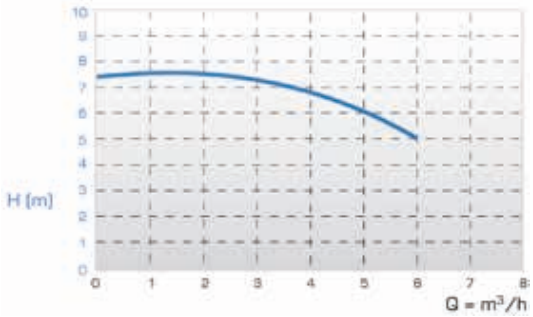
Advantages

- High chemical and thermal resistance
- Robust construction
- Suitability for continuous operation
- Weldless construction and therefore absolute reliability of operation
- Applicability even with extremely dirty liquids or media containing small solids
- Removing of motor even if pump is installed
- Availability of pump also without motor
- Quick and easy maintenance like replacement of bushings
- Inexpensive spare parts

JP-820.80

Material of pump tube PP/PVDF

Max. flow rate 6 m³/h
Max. head 7,5 m
Max. viscosity 500 mPas
Max. diameter for solids 7 mm
Max. temperature at PP 65 °C, at PVDF 95 °C
Suction side G 1½" f
Discharge side G 1" m or DN 25 Flange
Motor power 0,37 kW
Dimensions 300 x 220 x 419 + L mm
Pump tube lengths 250, 500, 800 mm



f = female thread m = male thread L = pump tube length

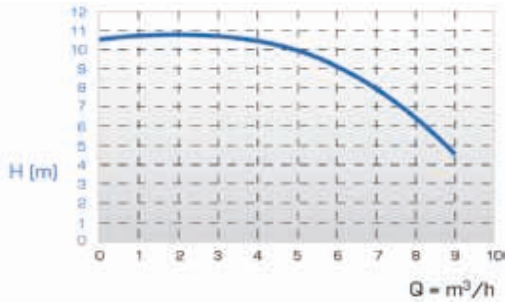
JESSBERGER pumps and systems

Vertical centrifugal pumps JP-820

JP-820.90

Material of pump tube PP/PVDF

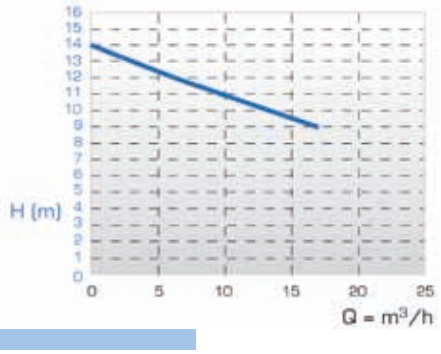
- Max. flow rate 9 m³/h
- Max. head 10,5 m
- Max. viscosity 500 mPas
- Max. diameter for solids 10 mm
- Max. temperature at PP 65 °C, at PVDF 95 °C
- Suction side G 1½" f
- Discharge side G 1" m or DN 25 Flange
- Motor power 0,55 kW
- Dimensions 300 x 220 x 419 + L mm
- Pump tube lengths 250, 500, 800 mm



JP-820.95

Material of pump tube PP/PVDF

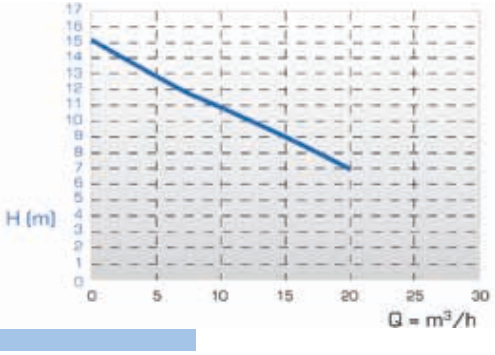
- Max. flow rate 16 m³/h
- Max. head 14 m
- Max. viscosity 500 mPas
- Max. diameter for solids 6 mm
- Max. temperature at PP 65 °C, at PVDF 95 °C
- Suction side G 2" m
- Discharge side G 1½" m or DN 40 Flange
- Motor power 0,75 kW
- Dimensions 360 x 300 x 419 + L mm
- Pump tube lengths 500, 800, 1.000, 1.250 mm



JP-820.110

Material of pump tube PP/PVDF

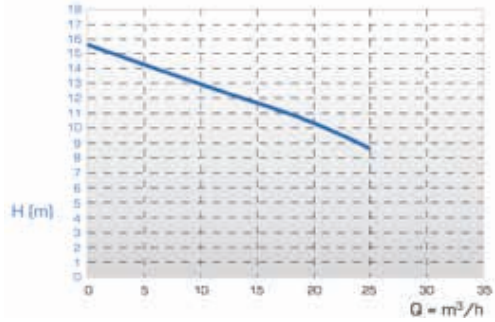
- Max. flow rate 20 m³/h
- Max. head 15 m
- Max. viscosity 500 mPas
- Max. diameter for solids 6 mm
- Max. temperature at PP 65 °C, at PVDF 95 °C
- Suction side G 2" m
- Discharge side G 1½" m or DN 40 Flange
- Motor power 1,1 kW
- Dimensions 360 x 300 x 419 + L mm
- Pump tube lengths 500, 800, 1.000, 1.250 mm



JP-820.120

Material of pump tube PP/PVDF

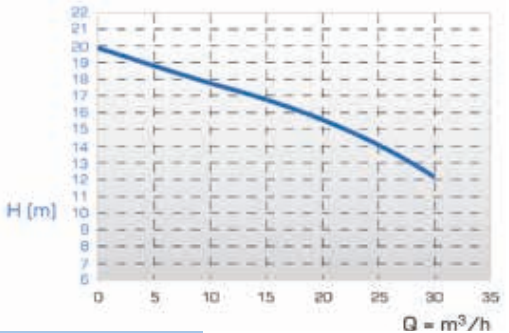
- Max. flow rate 25 m³/h
- Max. head 16 m
- Max. viscosity 500 mPas
- Max. diameter for solids 6 mm
- Max. temperature at PP 65 °C, at PVDF 95 °C
- Suction side G 2" m
- Discharge side G 1½" m or DN 40 Flange
- Motor power 1,5 kW
- Dimensions 360 x 300 x 446 + L mm
- Pump tube lengths 500, 800, 1.000, 1.250 mm



JP-820.130

Material of pump tube PP/PVDF

- Max. flow rate 30 m³/h
- Max. head 20 m
- Max. viscosity 500 mPas
- Max. diameter for solids 6 mm
- Max. temperature at PP 65 °C, at PVDF 95 °C
- Suction side G 2" m
- Discharge side G 1½" m or DN 40 Flange
- Motor power 2,2 kW
- Dimensions 360 x 300 x 467 + L mm
- Pump tube lengths 500, 800, 1.000, 1.250 mm



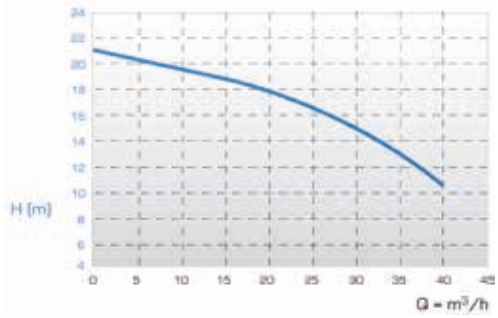
f = female thread m = male thread L = pump tube length

Vertical centrifugal pumps JP-820

JP-820.140

Material of pump tube PP/PVDF

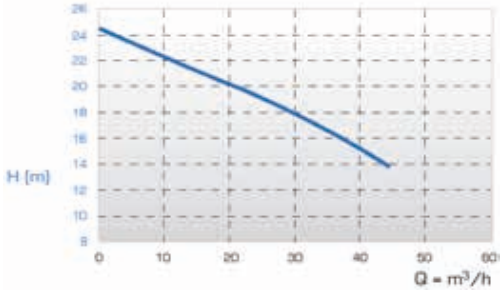
- Max. flow rate 40 m³/h
- Max. head 21 m
- Max. viscosity 500 mPas
- Max. diameter for solids 12 mm
- Max. temperature at PP 65 °C, at PVDF 95 °C
- Suction side G 2" m
- Discharge side G 1½" m or DN 40 Flange
- Motor power 3 kW
- Dimensions 360 x 300 x 507 + L mm
- Pump tube lengths 500, 800, 1.000, 1.250 mm



JP-820.150

Material of pump tube PP/PVDF

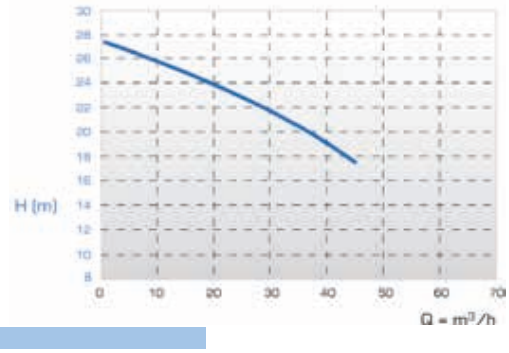
- Max. flow rate 42 m³/h
- Max. head 25 m
- Max. viscosity 500 mPas
- Max. diameter for solids 2 mm
- Max. temperature at PP 65 °C, at PVDF 95 °C
- Suction side G 2½" f
- Discharge side G 2" m or DN 50 Flange
- Motor power 4 kW
- Dimensions 480 x 380 x 532 + L mm
- Pump tube lengths 500, 800, 1.000, 1.250 mm



JP-820.155

Material of pump tube PP/PVDF

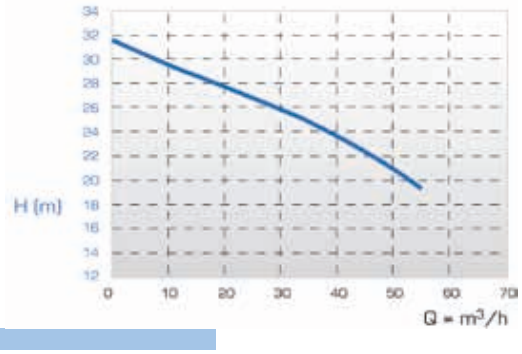
- Max. flow rate 45 m³/h
- Max. head 28 m
- Max. viscosity 500 mPas
- Max. diameter for solids 2 mm
- Max. temperature at PP 65 °C, at PVDF 95 °C
- Suction side G 2½" f
- Discharge side G 2" m or DN 50 Flange
- Motor power 5,5 kW
- Dimensions 480 x 380 x 682 + L mm
- Pump tube lengths 500, 800, 1.000, 1.250 mm



JP-820.160

Material of pump tube PP/PVDF

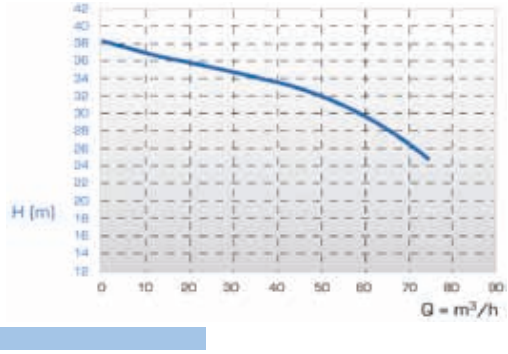
- Max. flow rate 55 m³/h
- Max. head 32 m
- Max. viscosity 500 mPas
- Max. diameter for solids 9 mm
- Max. temperature at PP 65 °C, at PVDF 95 °C
- Suction side G 2½" f
- Discharge side G 2" m or DN 50 Flange
- Motor power 7,5 kW
- Dimensions 480 x 380 x 702 + L mm
- Pump tube lengths 500, 800, 1.000, 1.250 mm



JP-820.180

Material of pump tube PP/PVDF

- Max. flow rate 75 m³/h
- Max. head 38 m
- Max. viscosity 500 mPas
- Max. diameter for solids 11 mm
- Max. temperature at PP 65 °C, at PVDF 95 °C
- Suction side G 2½" f
- Discharge side G 2" m or DN 50 Flange
- Motor power 11 kW
- Dimensions 480 x 380 x 752 + L mm
- Pump tube lengths 500, 800, 1.000, 1.250 mm



f = female thread m = male thread L = pump tube length

JESSBERGER pumps and systems

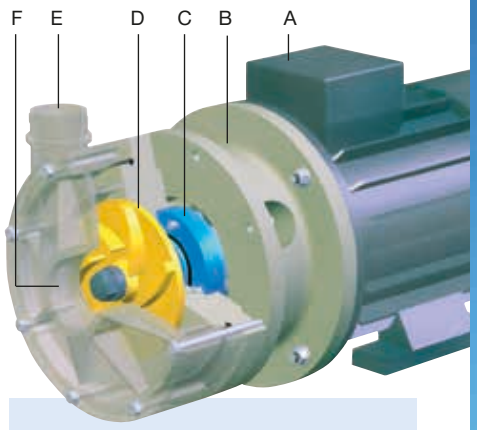
Horizontal centrifugal pumps JP-840

Especially suitable for high aggressive media like acids and alkalies

Technical data

- Executions in Polypropylene and PVDF
- Flow rates from 6 to 75m³/h
- Head from 7,2 to 38 m
- Viscosities up to 500 mPas (at 20 °C)
- Temperatures at PP max. 65 °C, at PVDF max. 95 °C
- Positive suction head operation (no self priming pumps)
- Three-phase motor, 230/400 Volt, 50 Hz, IP55, F Class, 2-poles, 2900 rpm

A = Electric motor
B = Inspection lantern
C = Mechanical seal
D = Impeller
E = Discharge side
F = Suction side (no self priming pumps, they require a feed line)



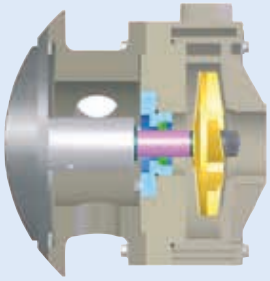
These horizontal centrifugal pumps are operated by a direct-drive motor (max. 3.000 rpm). They are especially suitable for a fast transfer of chemicals when emptying containers or tanks as well as for applications when a medium has to be pumped in circulation.

The JP-840 series offers several pump sizes with flow rates from 6 to 75 m³/h and head from 7,2 to 38 m. Their special construction with an open-impeller allows even the pumping of extremely dirty liquids or media containing small solids. The maximum viscosity for these centrifugal pumps is 500 mPas (at 20 °C) and the maximum temperature of the medium 65 °C at PP or 95 °C at PVDF.

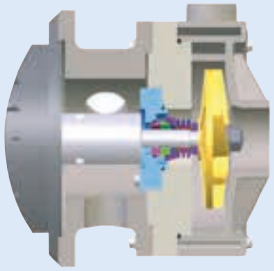
Depending on the application there are two versions available with different internal seals (lip seal or bellow-type seal). The availability of different materials of construction – depending on chemical and thermal resistance of medium or environment – guarantees an absolute reliability of operation and a long life time of pump.

Type	Motor size
JP-840.80	0,37 kW
JP-840.100	0,55 kW
JP-840.110	1,1 kW
JP-840.120	1,5 kW
JP-840.130	2,2 kW
JP-840.140	3,0 kW
JP-840.150	4,0 kW
JP-840.155	5,5 kW
JP-840.160	7,5 kW
JP-840.180	11,0 kW

TL = Lip seal

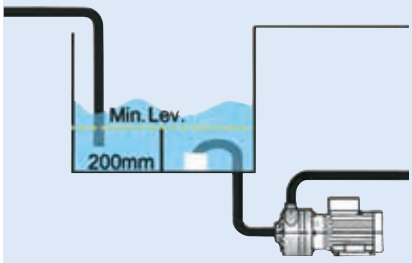


TS = Bellow-type seal



Advantages

- High chemical and thermal resistance
- Space saving and robust construction
- Suitability for continuous operation
- Weldless construction and therefore absolute reliability of operation
- Sealing via lip seal or bellow type seal
- Applicability even with extremely dirty liquids or media containing small solids
- Quick and easy maintenance
- Inexpensive spare parts



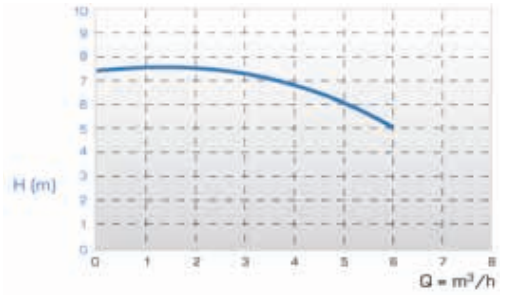
Pump principle

The impeller is connected over the shaft with the direct-drive electric motor. It rotates at a preset speed and produces a centrifugal effect (suction on the inlet and discharge on the outlet).

Horizontal centrifugal pumps JP-840

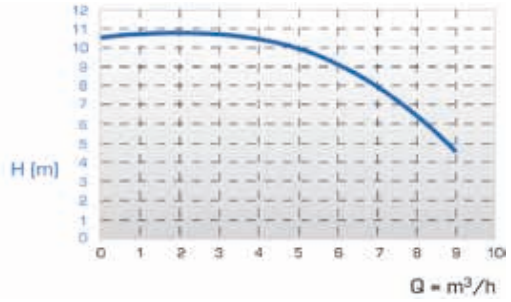
JP-840.80
Pump housing PP/PVDF

- Max. flow rate 6 m³/h
- Max. head 7,2 m
- Max. viscosity 500 mPas
- Max. diameter for solids 5 mm
- Suction side G 1½" f or DN 40 Flange
- Discharge side G 1" m or DN 25 Flange
- Motor power 0,37 kW
- Lip seal or bellow-type seal
- Dimensions 328 x 140 x 175 mm
- Weight PP 8,5 kg, PVDF 9,5 kg



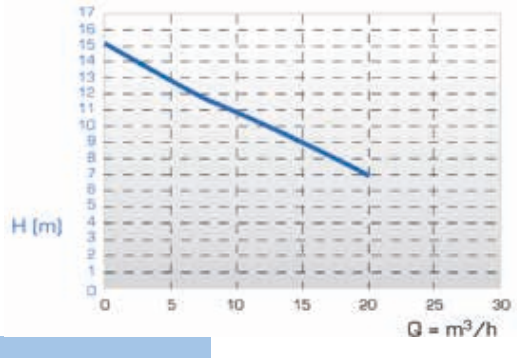
JP-840.100
Pump housing PP/PVDF

- Max. flow rate 9 m³/h
- Max. head 10,5 m
- Max. viscosity 500 mPas
- Max. diameter for solids 7 mm
- Suction side G 1½" f or DN 40 Flange
- Discharge side G 1" m or DN 25 Flange
- Motor power 0,55 kW
- Lip seal or bellow-type seal
- Dimensions 328 x 140 x 175 mm
- Weight PP 8,5 kg, PVDF 9,5 kg



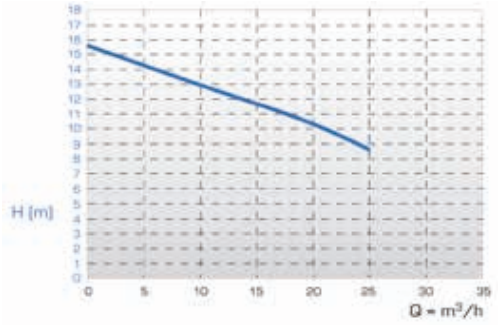
JP-840.110
Pump housing PP/PVDF

- Max. flow rate 20 m³/h
- Max. head 15 m
- Max. viscosity 500 mPas
- Max. diameter for solids 2 mm
- Suction side G 2" m or DN 50 Flange
- Discharge side G 1½" m or DN 40 Flange
- Motor power 1,1 kW
- Lip seal or bellow-type seal
- Dimensions 406 x 203 x 191 mm
- Weight PP 16 kg, PVDF 17 kg



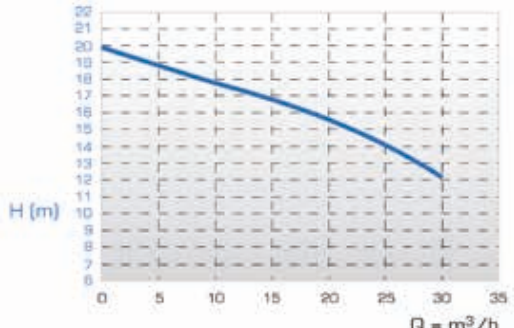
JP-840.120
Pump housing PP/PVDF

- Max. flow rate 25 m³/h
- Max. head 16 m
- Max. viscosity 500 mPas
- Max. diameter for solids 6 mm
- Suction side G 2" m or DN 50 Flange
- Discharge side G 1½" m or DN 40 Flange
- Motor power 1,5 kW
- Lip seal or bellow-type seal
- Dimensions 426 x 203 x 210 mm
- Weight PP 20 kg, PVDF 21 kg



JP-840.130
Pump housing PP/PVDF

- Max. flow rate 30 m³/h
- Max. head 20 m
- Max. viscosity 500 mPas
- Max. diameter for solids 6 mm
- Suction side G 2" m or DN 50 Flange
- Discharge side G 1½" m or DN 40 Flange
- Motor power 2,2 kW
- Lip seal or bellow-type seal
- Dimensions 448 x 203 x 210 mm
- Weight PP 22,5 kg, PVDF 23,5 kg



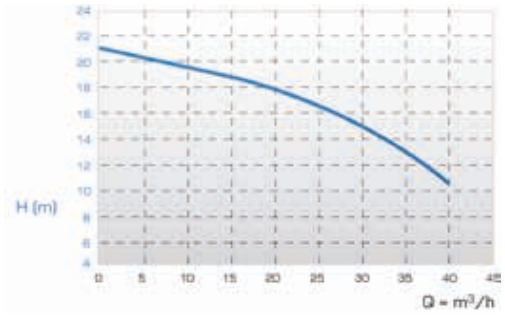
f = female thread m = male thread Max. temperature: PP 65 °C/PVDF 95 °C

JESSBERGER pumps and systems

Horizontal centrifugal pumps JP-840

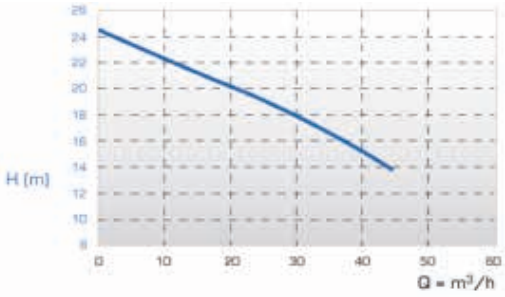
JP-840.140
Pump housing PP/PVDF

- Max. flow rate 40 m³/h
- Max. head 21 m
- Max. viscosity 500 mPas
- Max. diameter for solids 12 mm
- Suction side G 2” m or DN 50 Flange
- Discharge side G 1½” m or DN 40 Flange
- Motor power 3 kW
- Lip seal or bellow-type seal
- Dimensions 505 x 203 x 227 mm
- Weight PP 29 kg, PVDF 30 kg



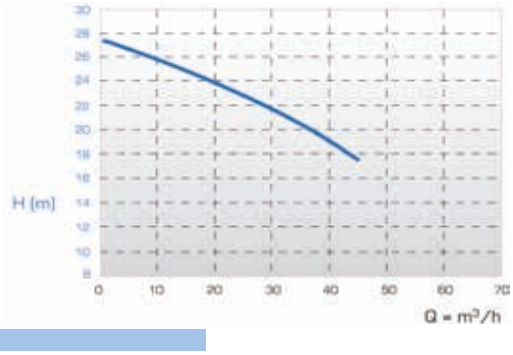
JP-840.150
Pump housing PP/PVDF

- Max. flow rate 42 m³/h
- Max. head 25 m
- Max. viscosity 500 mPas
- Max. diameter for solids 2 mm
- Suction side G 2½” f or DN 65 Flange
- Discharge side G 2” m or DN 50 Flange
- Motor power 4 kW
- Lip seal or bellow-type seal
- Dimensions 527 x 275 x 300 mm
- Weight PP 44 kg, PVDF 47 kg



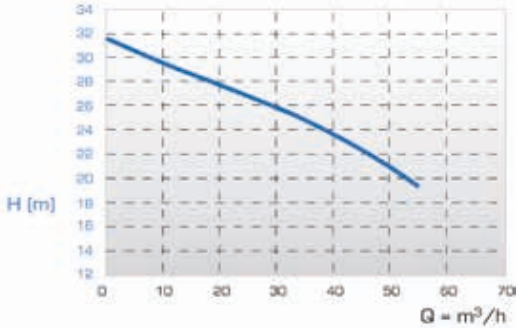
JP-840.155
Pump housing PP/PVDF

- Max. flow rate 45 m³/h
- Max. head 28 m
- Max. viscosity 500 mPas
- Max. diameter for solids 3 mm
- Suction side G 2½” f or DN 65 Flange
- Discharge side G 2” m or DN 50 Flange
- Motor power 5,5 kW
- Lip seal or bellow-type seal
- Dimensions 619 x 300 x 312 mm
- Weight PP 60 kg, PVDF 63 kg



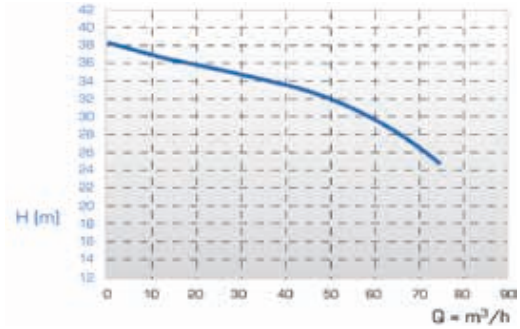
JP-840.160
Pump housing PP/PVDF

- Max. flow rate 55 m³/h
- Max. head 32 m
- Max. viscosity 500 mPas
- Max. diameter for solids 9 mm
- Suction side G 2½” f or DN 65 Flange
- Discharge side G 2” m or DN 50 Flange
- Motor power 7,5 kW
- Lip seal or bellow-type seal
- Dimensions 645 x 300 x 310 mm
- Weight PP 70 kg, PVDF 73 kg



JP-840.180
Pump housing PP/PVDF

- Max. flow rate 75 m³/h
- Max. head 38 m
- Max. viscosity 500 mPas
- Max. diameter for solids 9 mm
- Suction side G 2½” f or DN 65 Flange
- Discharge side G 2” m or DN 50 Flange
- Motor power 11 kW
- Lip seal or bellow-type seal
- Dimensions 695 x 300 x 310 mm
- Weight PP 96 kg, PVDF 99 kg



f = female thread m = male thread Max. temperature: PP 65 °C/PVDF 95 °C

Electric and pneumatic driven drum and container pumps

JESSBERGER pump technology with internal and external cooled electric motors or pneumatic motors (also ex-protected) in different engine-power classes. Seal-less pump tubes in Polypropylene, PVDF, ALU and Stainless Steel SS 316. Pump tube lengths 700, 1.000, 1.200, 1.500 and 1.800 mm. Special lengths up to 3.000 mm on request.

Eccentric screw pumps JP-700 for drums and containers with electric or pneumatic motor

are suitable for transferring thin to high viscous substances (max. 100.000 mPas) and will be used particularly stationary or for continuous work. All pump parts are made of Stainless Steel SS 316, stators are available in NBR, NBR light, FKM, EPDM, EPDM light or PTFE.

High viscosity dosing pumps

for thin fluid, viscous, neutral and aggressive media with or without particles.

Horizontal eccentric screw pumps

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

Manual hand operated drum pumps

are lightweight, handy devices for almost any fluid liquids.

- **JP-02** Telescopic suction tube made of PP, **340–900 mm** for **acids, alkaline solutions and chemicals** (on water basis because shaft is made of Stainless Steel SS 316).
- **JP-03** Telescopic suction tube made of PP, **340–900 mm** for **oils, diesel, alcohol (max. 50%), anti freeze liquid, soap solutions, shampoo, water, etc.**
- **JP-04** Telescopic suction tube made of PP, **480–950 mm,** for thin fluid liquids. Particularly suitable for **acids and lyes.**
- **JP-05** Pump tube made of Stainless Steel SS 316 with seals made of PTFE, pump tube lengths **700 or 1.000 mm**. Especially suitable for **flammable media like solvents.**

Electronic flowmeter

Housing made of PP. Volume preset, signal-check for further data processing as an option. Other materials: PVDF and SS

Please contact:

Air-operated diaphragm pumps JP-800

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

Sealless 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

Executions in Polypropylene and PVDF

Horizontal centrifugal pumps serie JP-840

Executions in Polypropylene and PVDF

Mixers for drums and containers

JESSBERGER offers solutions for almost every mixing application for drums and containers.

Dosing pumps

Diaphragm or plunger metering pump

Electric diesel and heating oil pumps

for refueling the motors of vehicles that are driven with diesel or heating oil of hazard class A III like tractors, agricultural machines and machines for construction work, trucks and motor boats.

protank 25 mobile

protank 50 stationary

Hoses

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

Please ask for details.

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

Please make a cross next to the requested products and fax or e-mail this page to us with your address.

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