



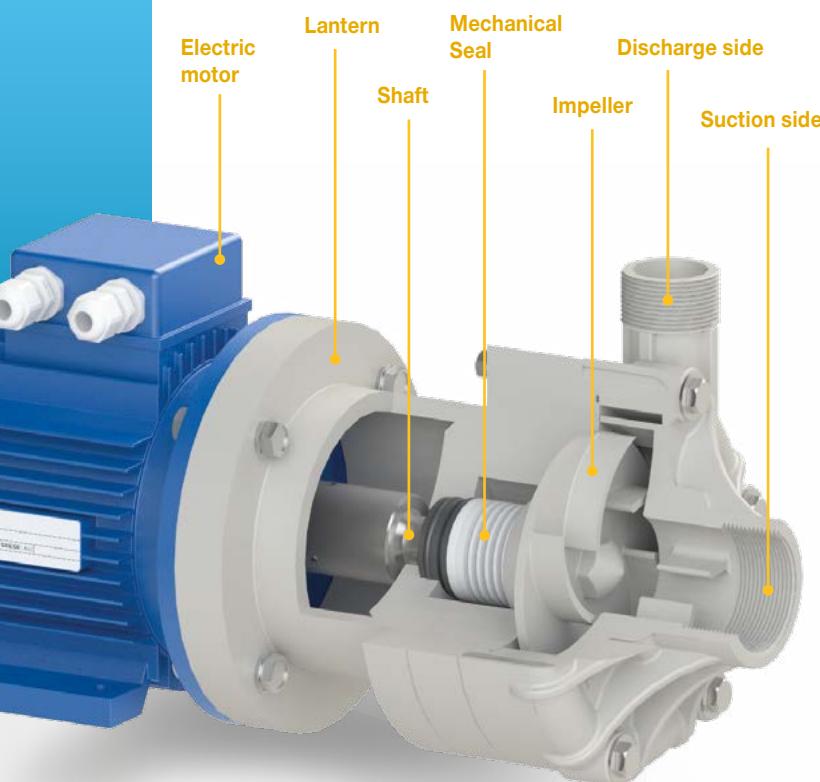
HORIZONTAL CENTRIFUGAL PUMPS

made of Polypropylene and PVDF for conveying
aggressive media such as acids and alkalis.

JESSBERGER®
pumps and systems

JP-850

HORIZONTAL CENTRIFUGAL PUMPS



Especially suitable for high aggressive media like acids and alkalies.

- The horizontal centrifugal pumps are high performance pumps operated by a direct-drive electric motor for fast fluid transfer and drainage with **flow-rates from 6 to 40 m³/h.**
- The special **semi-opened impeller** design allows continuous pumping even with dirty fluids with apparent viscosity up to 500 mPas and small suspended solids.
- The centrifugal pumps feature a solid pump casing and a lantern for connecting the electric motor and inspection of the mechanical seal.
- The semi-opened impeller is fitted to the pump shaft that is integral with the drive shaft of the electric motor. The shaft **mechanical seal** is housed at the rear of the impeller.

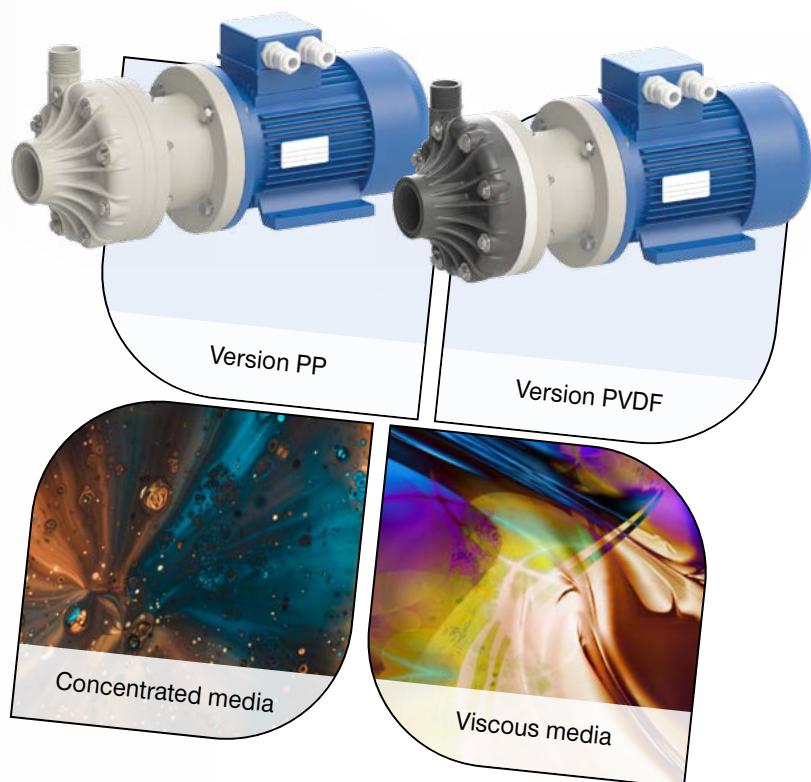
Main Features:

- Casing and impeller in PP and PVDF.
- O-ring in EPDM and VITON.
- Single mechanical seal.
- Max. delivery head 25 mts.
- Max. flow - Rate: 40 m³/h.
- Temperature: from -20 °C to + 95 °C.
- Max viscosity: 500 mPas
- Electric motors from 0,37 kW up to 5,5 kW.
- Specific Gravity up to 1.9.

► **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).



► **Installation - Positive suction:** The centrifugal pumps should only be installed with the shaft positioned horizontally in a positive suction head arrangement. Suitable devices should be fitted to prevent dry running and the formation of a vortex and possible air suction. Running dry or with air bubbles can cause damage to the mechanical seal.



JP-850 HORIZONTAL CENTRIFUGAL PUMPS

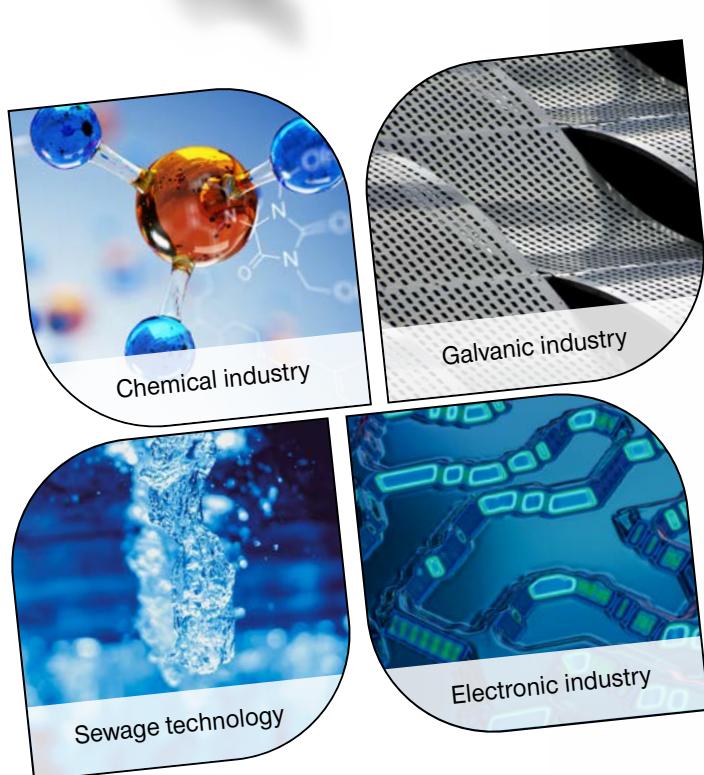
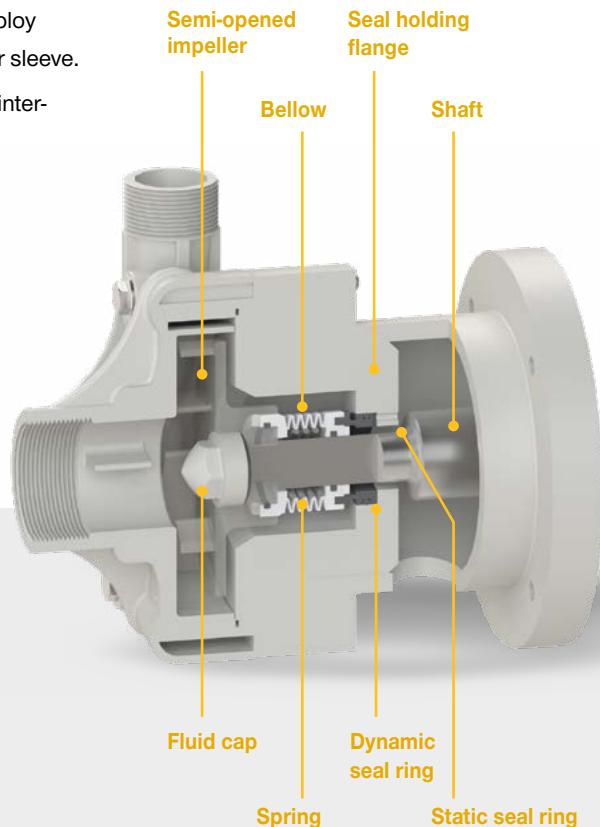
Mechanical seal

- The mechanical seal is designed with externally 100% virgin PTFE bellows for **extreme corrosion resistance applications**.
- The entire seal assembly and component parts employ mechanical drive to prevent slippage on the shaft or sleeve.
- Mechanical seal assembly is outside mounted and internally pressurized.

Main Features:

- Special design
- Anti-rotation
- High chemical design
- SiC/C/FPM/SS304
- Able to handle dirty fluid

► Mechanical seal



► Features mechanical seal



JP-850.80



CE EAC

TECHNICAL DATA JP-850.80

JP-850.80

Inlet connections: 1½" F BSPP

Outlet connections: 1" M BSPP

Max. Flow rate: 6 m³/h

Max. Delivery head: 8 m

Max Viscosity: 100 mPas

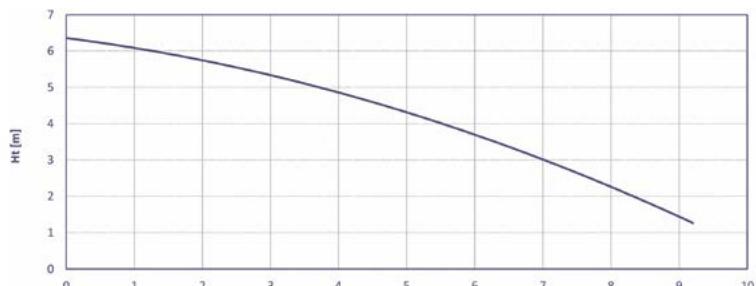
Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

Temperature PVDF: -20 °C +90 °C

Motor: 0,37 kW, 0,55 kW and 0,75 kW

Material: PP and PVDF

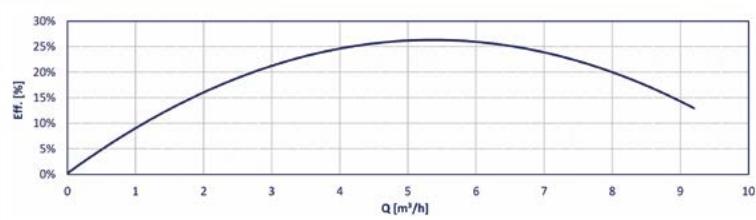
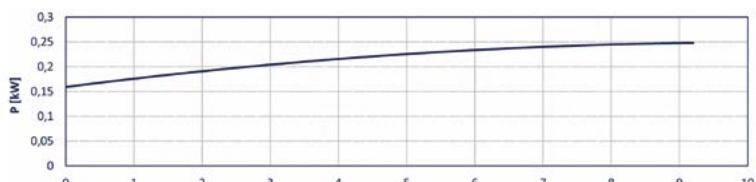


SPECIFIC GRAVITY TABLE

L = 0,37 kW	M = 0,55 kW	H = 0,75 kW
up to 1,2	up to 1,5	up to 1,9

MOTOR SPECIFICATION

SIZE	kW	DESIGN
IEC 71	0,37	B3 + B5
IEC 71	0,55	B3 + B5
IEC 71	0,75	B3 + B5



The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-850.80	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED	L = LOW DENSITY M = MEDIUM DENSITY H = HIGH DENSITY	IE = 3PH STD X = ATEX 1P = 1PH - = NO MOTOR

TECHNICAL DATA JP-850.100

JP-850.100

Inlet connections: 1½" F BSPP

Outlet connections: 1" M BSPP

Max. Flow rate: 10 m³/h

Max. Delivery head: 10 m

Max Viscosity: 150 mPas

Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

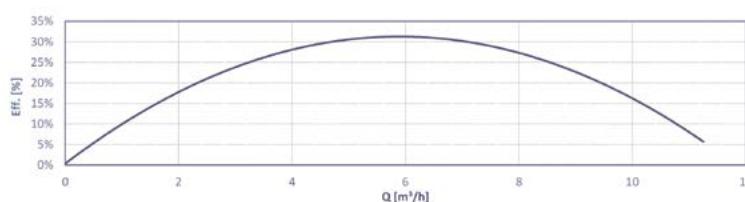
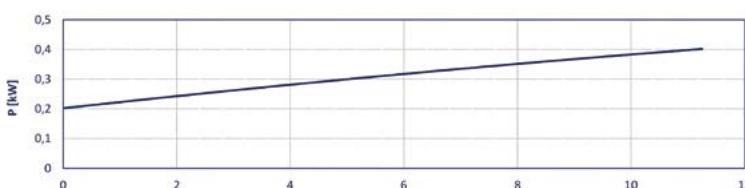
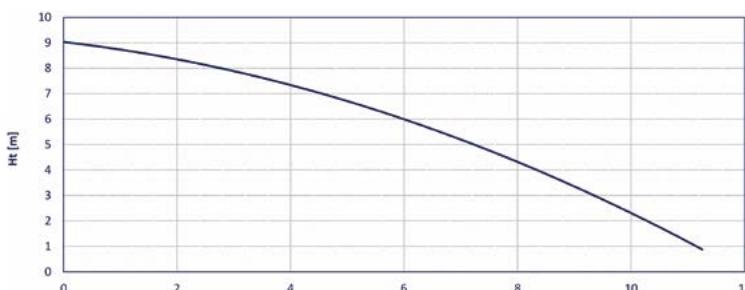
Temperature PVDF: -20 °C +90 °C

Motor: 0,55 kW, 0,75 kW and 1,1 kW

Material: PP and PVDF



CE EAC



SPECIFIC GRAVITY TABLE

L = 0,55 kW	M = 0,75 kW	H = 1,1 Kw
up to 1,2	up to 1,5	up to 1,9

MOTOR SPECIFICATION

SIZE	kW	DESIGN
IEC 71	0,55	B3 + B5
IEC 71	0,75	B3 + B5
IEC 80	1,1	B3 + B5

The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-850.100	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED	L = LOW DENSITY M = MEDIUM DENSITY H = HIGH DENSITY	IE = 3PH STD X = ATEX 1P = 1PH - = NO MOTOR

F = female thread M = male thread

jesspumpen.com

JP-850.105



TECHNICAL DATA JP-850.105

JP-850.105

Inlet connections: 1½" F BSPP

Outlet connections: 1" M BSPP

Max. Flow rate: 15 m³/h

Max. Delivery head: 12 m

Max Viscosity: 200 mPas

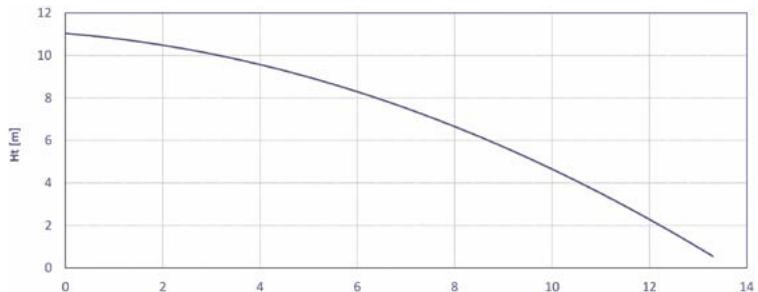
Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

Temperature PVDF: -20 °C +90 °C

Motor: 0,75 kW, 1,1 kW and 1,5 kW

Material: PP and PVDF

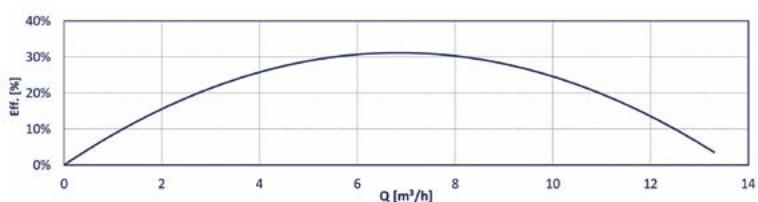
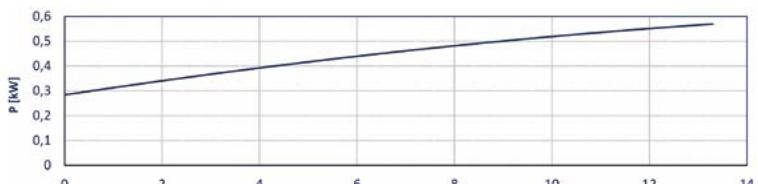


SPECIFIC GRAVITY TABLE

L = 0,75 kW	M = 1,1 kW	H = 1,5 kW
up to 1,2	up to 1,5	up to 1,9

MOTOR SPECIFICATION

SIZE	kW	DESIGN
IEC 80	0,75	B3 + B5
IEC 80	1,1	B3 + B5
IEC 80	1,5	B3 + B5



The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-850.105	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED	L = LOW DENSITY M = MEDIUM DENSITY H = HIGH DENSITY	IE = 3PH STD X = ATEX 1P = 1PH - = NO MOTOR

TECHNICAL DATA JP-850.110

JP-850.110

Inlet connections: 2" F BSPP

Outlet connections: 1½" M BSPP

Max. Flow rate: 20 m³/h

Max. Delivery head: 15 m

Max Viscosity: 300 mPas

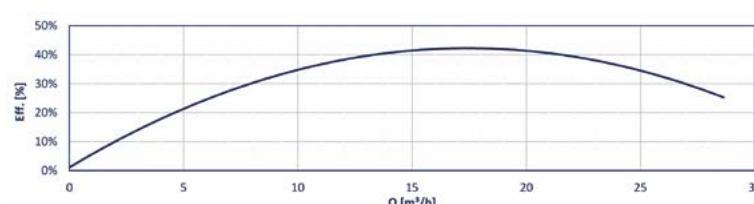
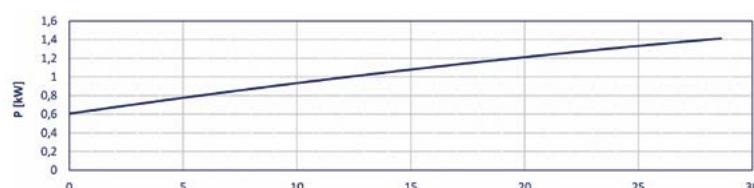
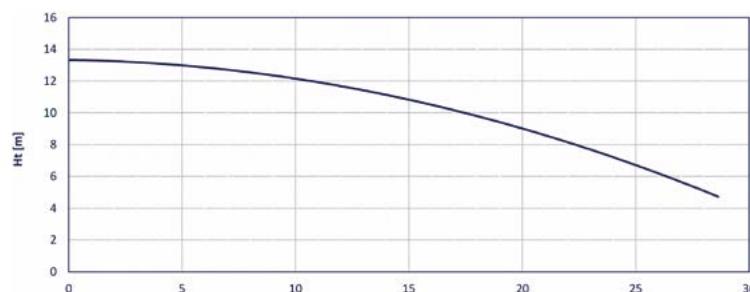
Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

Temperature PVDF: -20 °C +90 °C

Motor: 1,1 kW, 1,5 kW and 2,2 kW

Material: PP and PVDF



SPECIFIC GRAVITY TABLE

L = 1,1 kW	M = 1,5 kW	H = 2,2 kW
up to 1,2	up to 1,5	up to 1,9

MOTOR SPECIFICATION

SIZE	kW	DESIGN
IEC 80	1,1	B3 + B5
IEC 90	1,5	B3 + B5
IEC 90	2,2	B3 + B5

The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-850.110	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED	L = LOW DENSITY M = MEDIUM DENSITY H = HIGH DENSITY	IE = 3PH STD X = ATEX 1P = 1PH - = NO MOTOR

F = female thread M = male thread

jesspumpen.com

JP-850.120



TECHNICAL DATA JP-850.120

JP-850.120

Inlet connections: 2" F BSPP

Outlet connections: 1½" M BSPP

Max. Flow rate: 25 m³/h

Max. Delivery head: 16 m

Max Viscosity: 400 mPas

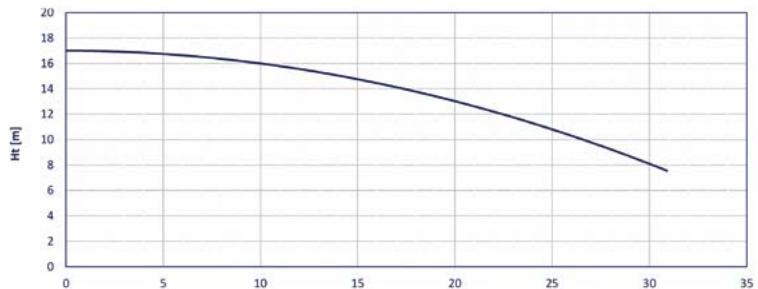
Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

Temperature PVDF: -20 °C +90 °C

Motor: 1,5 kW, 2,2 kW and 3 kW

Material: PP and PVDF

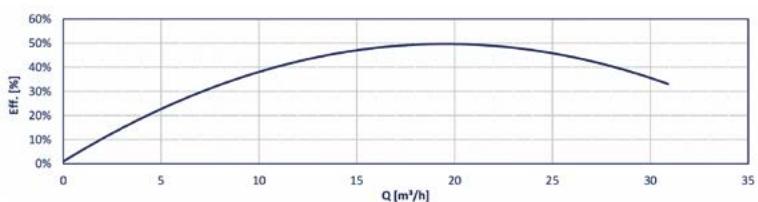
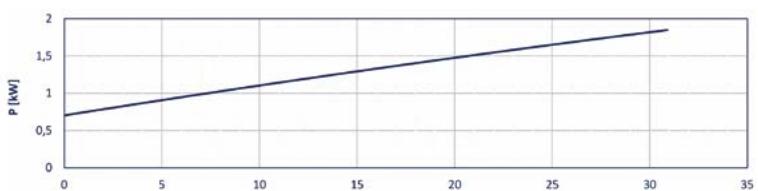


SPECIFIC GRAVITY TABLE

L = 1,5 kW	M = 2,2 kW	H = 3 kW
up to 1,2	up to 1,5	up to 1,9

MOTOR SPECIFICATION

SIZE	kW	DESIGN
IEC 90	1,5	B3 + B5
IEC 90	2,2	B3 + B5
IEC 100	3	B3 + B5



The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-850.120	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED	L = LOW DENSITY M = MEDIUM DENSITY H = HIGH DENSITY	IE = 3PH STD X = ATEX 1P = 1PH - = NO MOTOR

TECHNICAL DATA JP-850.130

JP-850.130

Inlet connections: 2" F BSPP

Outlet connections: 1½" M BSPP

Max. Flow rate: 30 m³/h

Max. Delivery head: 20 m

Max Viscosity: 500 mPas

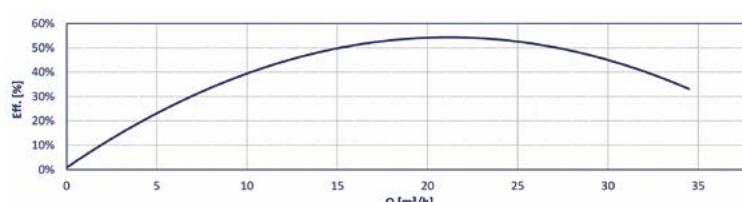
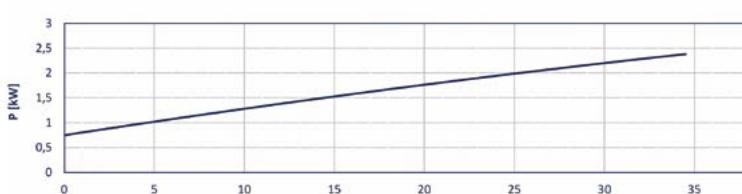
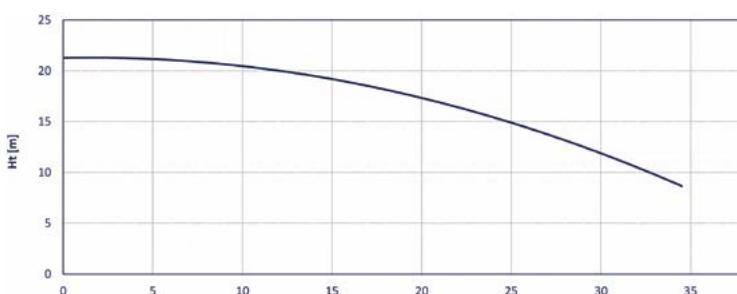
Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

Temperature PVDF: -20 °C +90 °C

Motor: 2,2 kW, 3 kW and 4 kW

Material: PP and PVDF



SPECIFIC GRAVITY TABLE

L = 2,2 kW	M = 3 kW	H = 4 kW
up to 1,2	up to 1,5	up to 1,9

MOTOR SPECIFICATION

SIZE	kW	DESIGN
IEC 90	2,2	B3 + B5
IEC 100	3	B3 + B5
IEC 112	4	B3 + B5

The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-850.130	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED	L = LOW DENSITY M = MEDIUM DENSITY H = HIGH DENSITY	IE = 3PH STD X = ATEX 1P = 1PH - = NO MOTOR

F = female thread M = male thread

JP-850.140



CE EAC

TECHNICAL DATA JP-850.140

JP-850.140

Inlet connections: 2" F BSPP

Outlet connections: 1½" M BSPP

Max. Flow rate: 40 m³/h

Max. Delivery head: 25 m

Max Viscosity: 500 mPas

Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

Temperature PVDF: -20 °C +90 °C

Motor: 3 kW, 4 kW and 5,5 kW

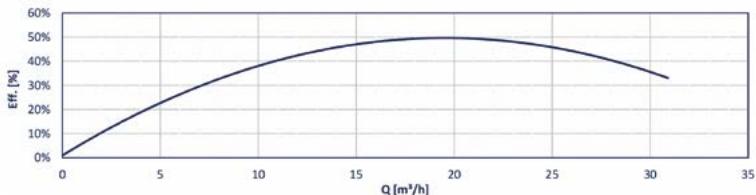
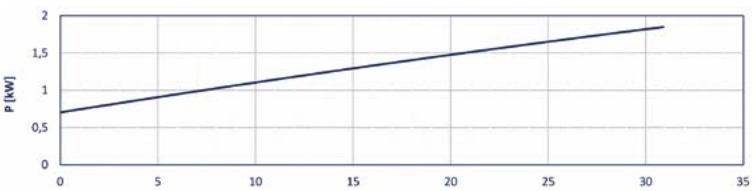
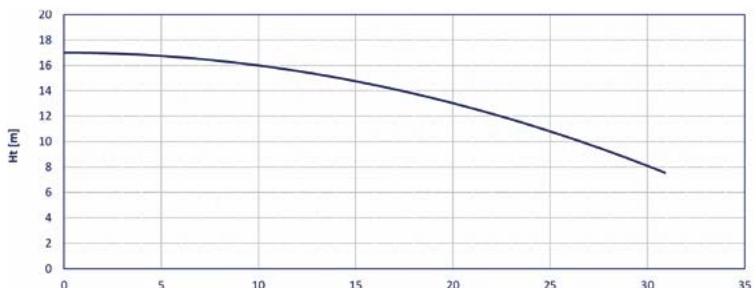
Material: PP and PVDF

SPECIFIC GRAVITY TABLE

L = 3 kW	M = 4 kW	H = 5,5 kW
up to 1,2	up to 1,5	up to 1,9

MOTOR SPECIFICATION

SIZE	kW	DESIGN
IEC 100	3	B3 + B5
IEC 112	4	B3 + B5
IEC 112	5,5	B3 + B5



The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-850.140	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED	L = LOW DENSITY M = MEDIUM DENSITY H = HIGH DENSITY	IE = 3PH STD X = ATEX 1P = 1PH - = NO MOTOR

TECHNICAL DATA JP-850.145

JP-850.145

Inlet connections: 2½" F BSPP

Outlet connections: 2" M BSPP

Max. Flow rate: 60 m³/h

Max. Delivery head: 26 m

BEP flow rate: 35 m³/h

BEP delivery head: 21 m

Max. Viscosity: 500 mPas

Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

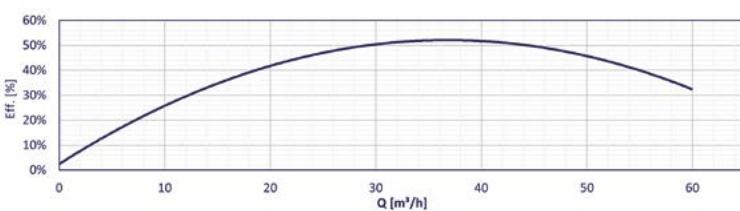
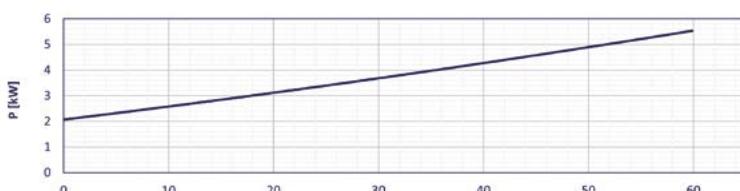
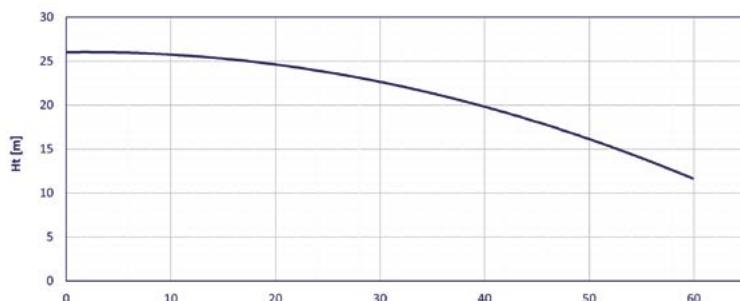
Temperature PVDF: -20 °C +95 °C

Motor: 3 kW, 4 kW, 5,5 kW, 7,5 kW, 11 kW, 15 kW and 18,5 kW

Material: PP and PVDF



CE EAC



MOTOR SPECIFICATION

Nº POLES	2
RPM	2900
FREQUENCY	50 Hz
VOLTAGE	230/400 V
PROTECTION	IP 55
FLANGES	IEC
DESIGN	B3 + B5

The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	FRAME SIZE	MOTOR VERSION
JP-850.145	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED 5 = NPT	100 112 132 160	IE = IEC FLANGE - = NO MOTOR

F = female thread M = male thread

jesspumpen.com

JP-850.150



TECHNICAL DATA JP-850.150

JP-850.150

Inlet connections: 2½" F BSPP

Outlet connections: 2" M BSPP

Max. Flow rate: 64 m³/h

Max. Delivery head: 30,5 m

BEP flow rate: 38 m³/h

BEP delivery head: 26 m

Max. Viscosity: 600 mPas

Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

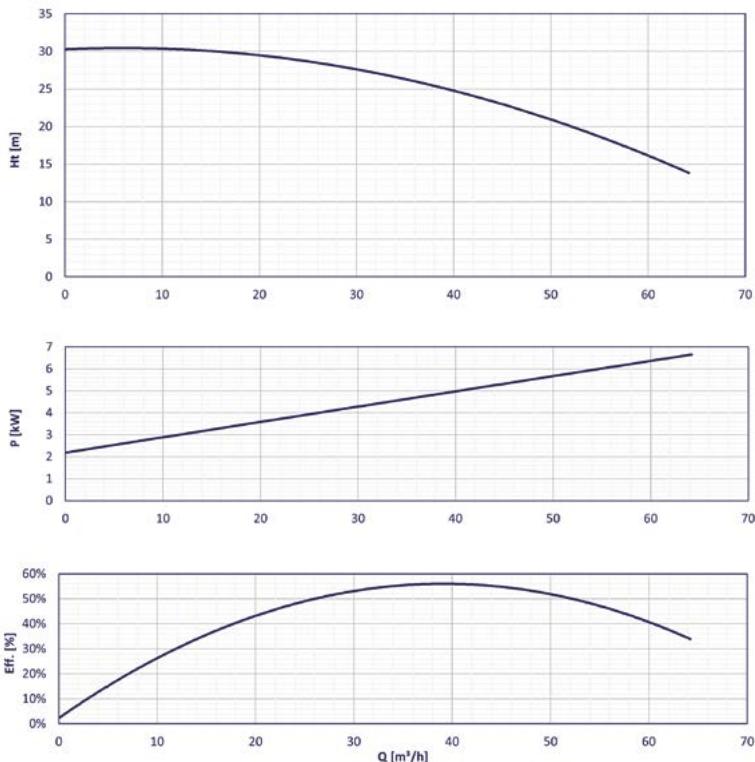
Temperature PVDF: -20 °C +95 °C

Motor: 3 kW, 4 kW, 5,5 kW, 7,5 kW, 11 kW, 15 kW and 18,5 kW

Material: PP and PVDF

MOTOR SPECIFICATION

N° POLES	2
RPM	2900
FREQUENCY	50 Hz
VOLTAGE	230/400 V
PROTECTION	IP 55
FLANGES	IEC
DESIGN	B3 + B5



The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	FRAME SIZE	MOTOR VERSION
JP-850.150	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED 5 = NPT	100 112 132 160	IE = IEC FLANGE - = NO MOTOR

TECHNICAL DATA JP-850.160

JP-850.160

Inlet connections: 2½" F BSPP

Outlet connections: 2" M BSPP

Max. Flow rate: 68,5 m³/h

Max. Delivery head: 35 m

BEP flow rate: 40,5 m³/h

BEP delivery head: 29,5 m

Max. Viscosity: 700 mPas

Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

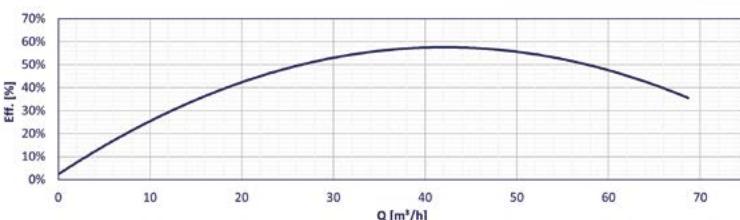
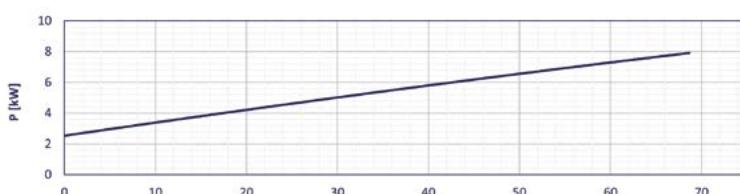
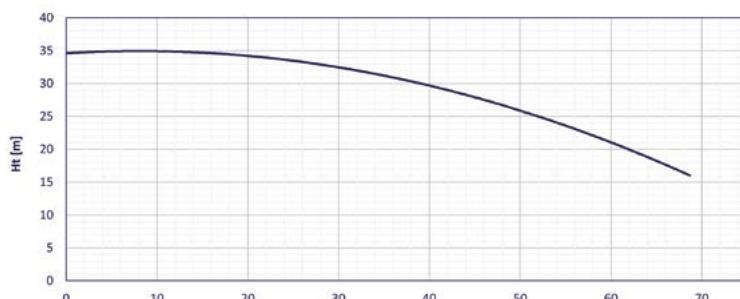
Temperature PVDF: -20 °C +95 °C

Motor: 3 kW, 4 kW, 5,5 kW, 7,5 kW, 11 kW, 15 kW and 18,5 kW

Material: PP and PVDF



CE EAC



MOTOR SPECIFICATION

Nº POLES	2
RPM	2900
FREQUENCY	50 Hz
VOLTAGE	230/400 V
PROTECTION	IP 55
FLANGES	IEC
DESIGN	B3 + B5

The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	FRAME SIZE	MOTOR VERSION
JP-850.160	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED 5 = NPT	100 112 132 160	IE = IEC FLANGE - = NO MOTOR

JP-850.170



TECHNICAL DATA JP-850.170

JP-850.170

Inlet connections: 2½" F BSPP

Outlet connections: 2" M BSPP

Max. Flow rate: 73 m³/h

Max. Delivery head: 40 m

BEP flow rate: 43 m³/h

BEP delivery head: 34 m

Max. Viscosity: 800 mPas

Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

Temperature PVDF: -20 °C +95 °C

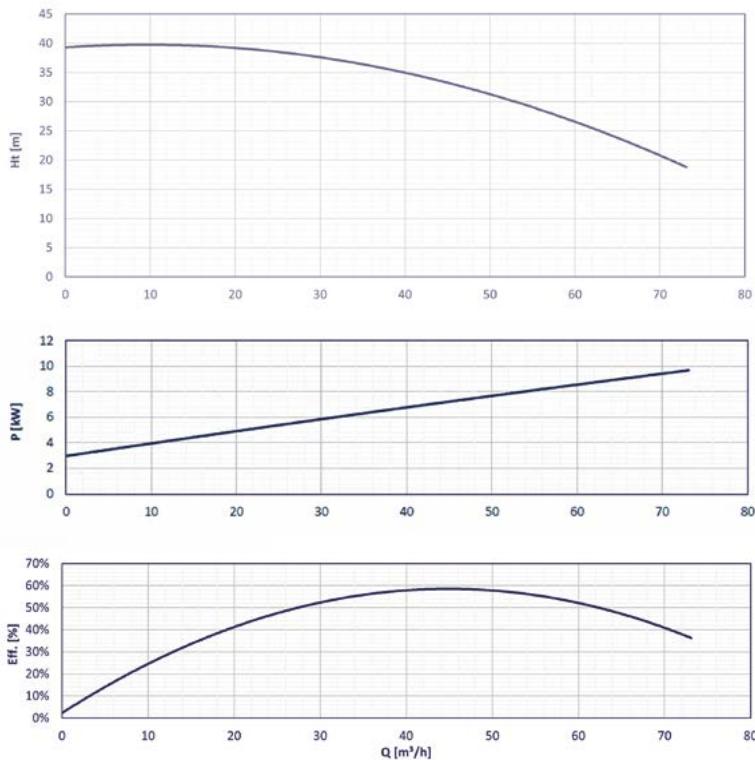
Motor: 3 kW, 4 kW, 5,5 kW, 7,5 kW, 11 kW, 15 kW and 18,5 kW

Material: PP and PVDF



MOTOR SPECIFICATION

N° POLES	2
RPM	2900
FREQUENCY	50 Hz
VOLTAGE	230/400 V
PROTECTION	IP 55
FLANGES	IEC
DESIGN	B3 + B5



The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	FRAME SIZE	MOTOR VERSION
JP-850.170	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED 5 = NPT	100 112 132 160	IE = IEC FLANGE - = NO MOTOR

TECHNICAL DATA JP-850.180

JP-850.180

Inlet connections: 2½" F BSPP

Outlet connections: 2" M BSPP

Max. Flow rate: 78 m³/h

Max. Delivery head: 45 m

BEP flow rate: 50 m³/h

BEP delivery head*: 37 m

Max. Viscosity: 800 mPas

Impeller: Semi-opened

Temperature PP: -5 °C +65 °C

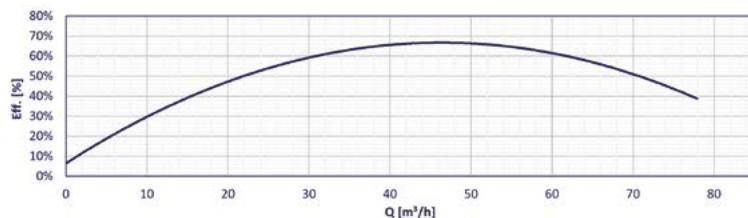
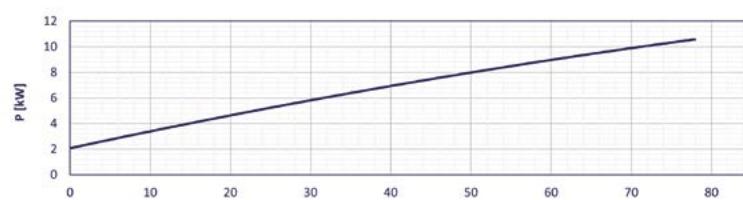
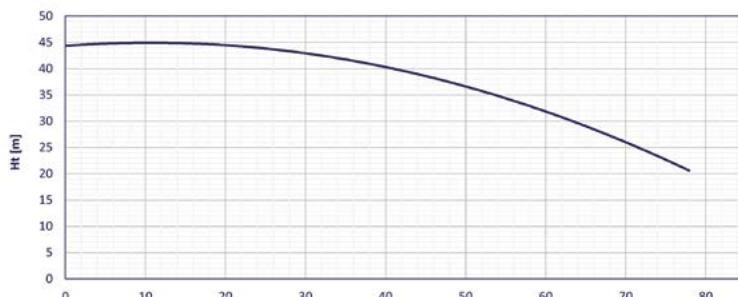
Temperature PVDF: -20 °C +95 °C

Motor: 3 kW, 4 kW, 5,5 kW, 7,5 kW, 11 kW, 15 kW and 18,5 kW

Material: PP and PVDF



CE EAC



MOTOR SPECIFICATION

Nº POLES	2
RPM	2900
FREQUENCY	50 Hz
VOLTAGE	230/400 V
PROTECTION	IP 55
FLANGES	IEC
DESIGN	B3 + B5

The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials, hydraulic conditions and the length of the pump.

MATERIAL | COMPOSITION

MODEL	CASING	O-RING	MECH. SEAL	CONNECTIONS	FRAME SIZE	MOTOR VERSION
JP-850.180	P = PP K = PVDF	D = EPDM V = VITON	T1 = SIC + C	1 = BSP STD 2 = FLANGED 5 = NPT	100 112 132 160	IE = IEC FLANGE - = NO MOTOR

F = female thread M = male thread

jesspumpen.com

JESSBERGER®

pumps and systems

JESSBERGER GmbH

Jaegerweg 5-7
D-85521 Ottobrunn

Tel.: +49 (0) 89 - 66 66 33 400

Fax: +49 (0) 89 - 66 66 33 411

E-mail: info@jesspumpen.de

Web: www.jesspumpen.com

 facebook.com/jessbergerpumpen

 twitter.com/Fasspumpe

 linkedin.com/company/jessberger-gmbh-fasspumpen

