VERTICAL CENTRIFUGAL PUMPS

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

JESSBERGER®
pumps and systems

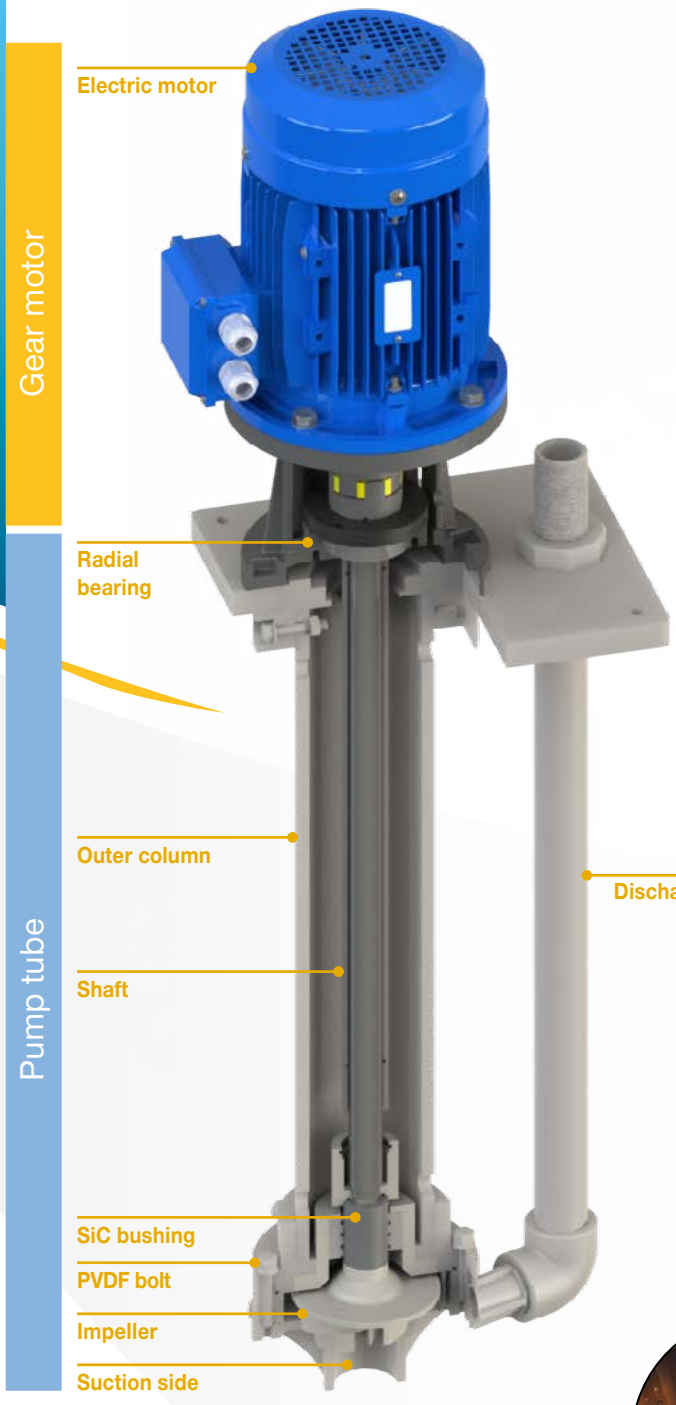
JP-830
VERTICAL CENTRIFUGAL PUMPS

Especially suitable for high aggressive media like acids and alkalis.

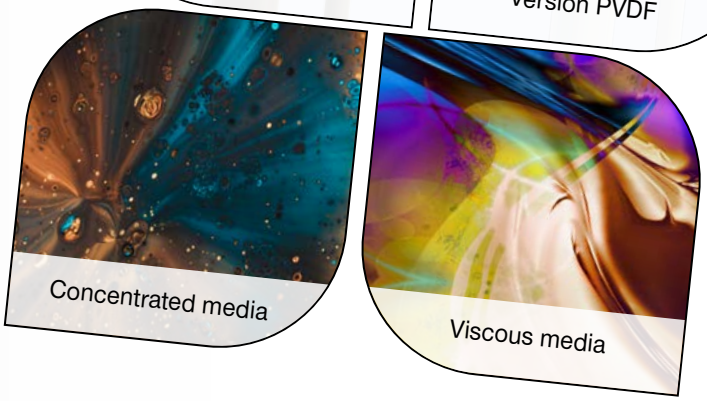
- JP-830 **vertical centrifugal pumps** are high performance pumps for fixed installations with the pump immersed directly in the tank.
- These pumps are used to quickly empty the fluid, with **flow rates ranging from 6 to 78 m³/h.** The special semi-opened impeller design, allows continuous pumping even with dirty fluids with apparent viscosity up to 800 mPas and small suspended solids.
- JP-830 are electric motor driven pumps that, through **a flexible coupling,** transmitting the rotation to the shaft and the impeller, due to centrifugal effect, creates a suction on the central duct and a delivery on the peripheral tube.

Main Features:

- Casing and impeller in PP and PVDF.
- O-ring in EPDM and VITON.
- Length from 250 mm to 1400 mm.
- Max. delivery head 45 m
- Max. flow - Rate: 78 m³/h.
- Temperature: from -20 °C to + 95 °C.
- Max viscosity: 800 mPas
- Electric motors from 0,37 kW up to 18,5 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).



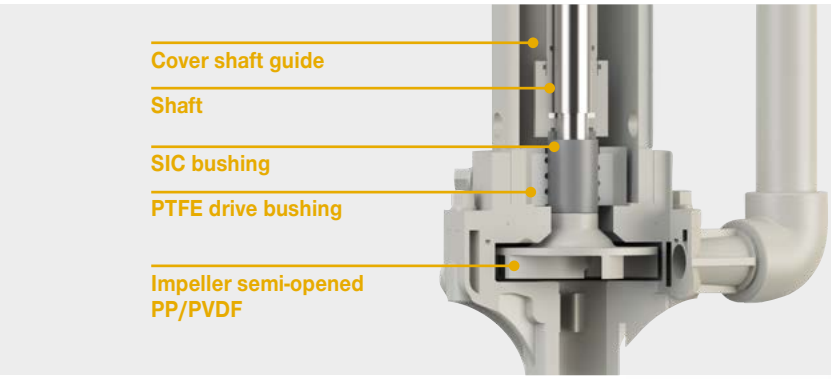
JP-830
VERTICAL CENTRIFUGAL PUMPS

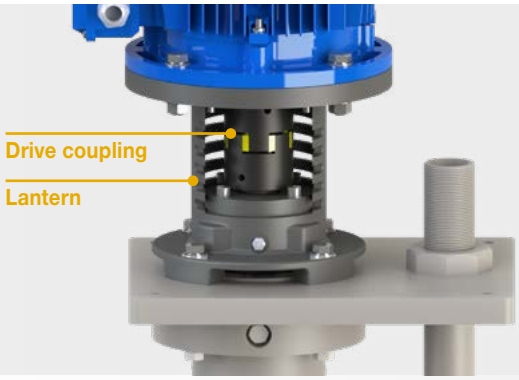
Flexible coupling

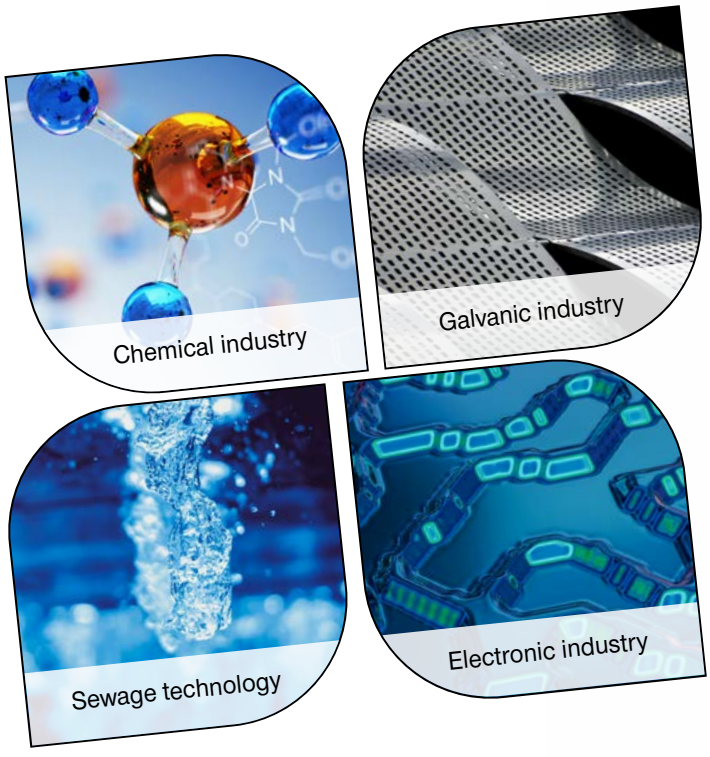
- The coupling is a **flexible and homokinetic coupling** that assures the best performance in relation to the physical space occupied in its class.
- It has a very compact design and allows safe power transmission by absorbing peak loads and torsional vibrations. Moreover, the elastic design of the polyurethane gear ring compensates for angular and radial misalignments and also absorbs small shaft length variations.

Main Features:

- Compact Design
- Safe power transmission by absorbing peak loads and torsional vibrations.
- Compensates for axial misalignments
- Elastic gear ring resistant to chemical agents





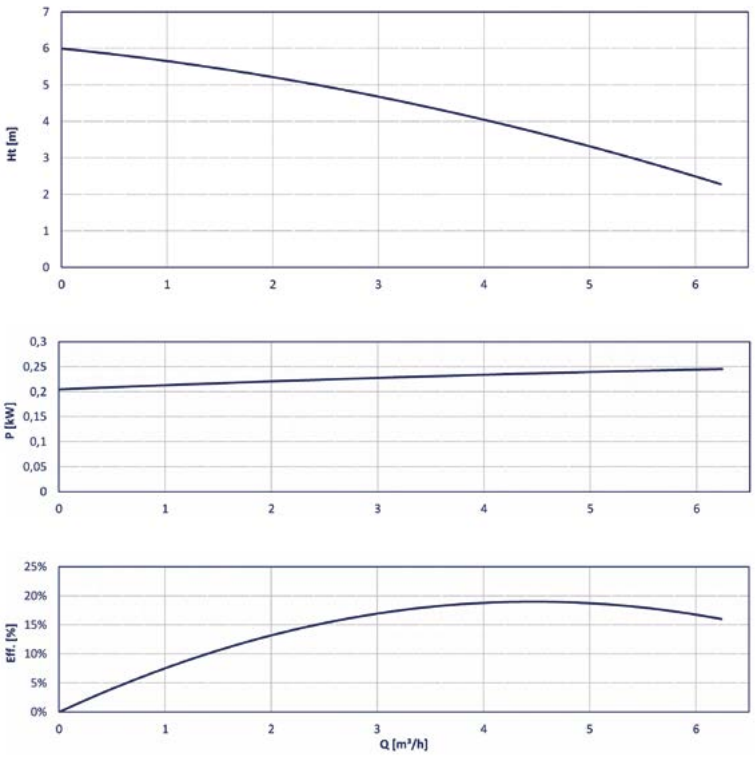


▶ **Installation - dry running:** Suitable devices should be filled to prevent dry running and the formation of a vortex and possible air suction. Running dry or with air bubbles can cause damage to the pump.

JP-830.80

TECHNICAL DATA JP-830.80

JP-830.80
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	B5
IEC 71	0,55	B5
IEC 71	0,75	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

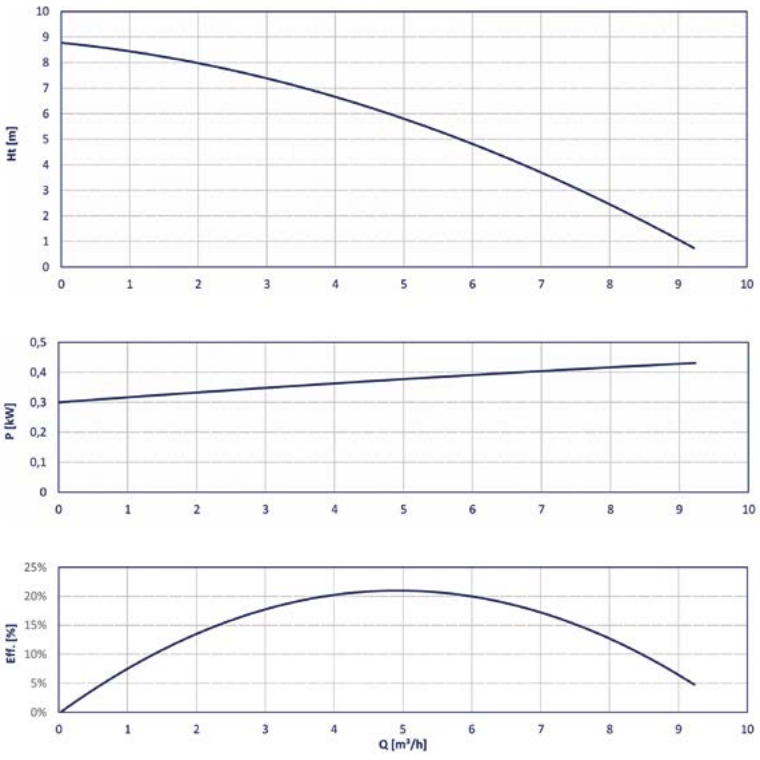
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-830.80	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	250 500 800 1000	**1** = BSP STD **2** = FLANGED	**L** = LOW DENSITY **M** = MEDIUM DENSITY **H** = HIGH DENSITY	**IE** = IEC FLANGE

F = female thread M = male thread

JP-830.90

TECHNICAL DATA JP-830.90

JP-830.90
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



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	B5
IEC 71	0,75	B5
IEC 80	1,1	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

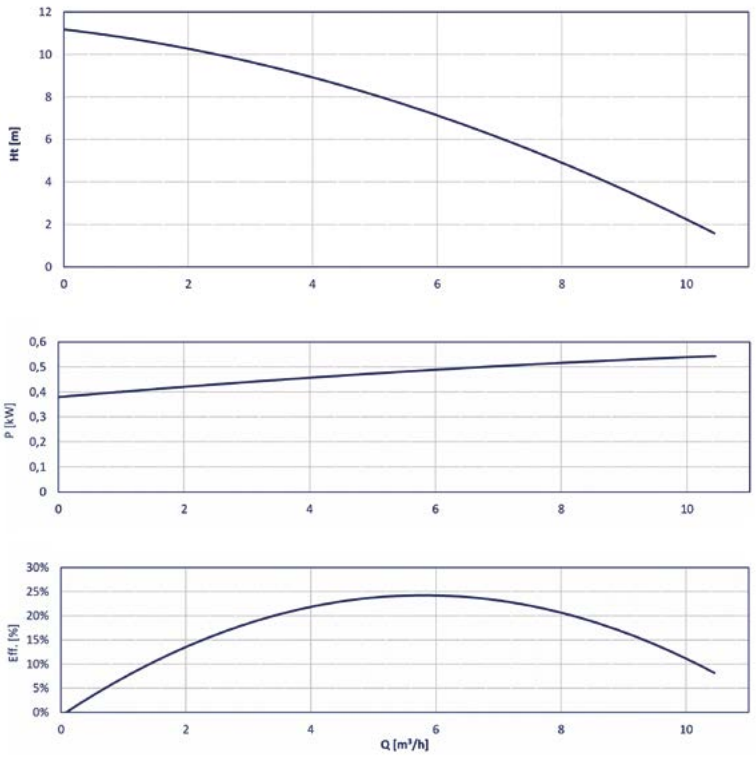
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-830.90	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	250 500 800 1000	**1** = BSP STD **2** = FLANGED	**L** = LOW DENSITY **M** = MEDIUM DENSITY **H** = HIGH DENSITY	**IE** = IEC FLANGE

F = female thread M = male thread

JP-830.95

TECHNICAL DATA JP-830.95

JP-830.95
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	B5
IEC 80	1,1	B5
IEC 80	1,5	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

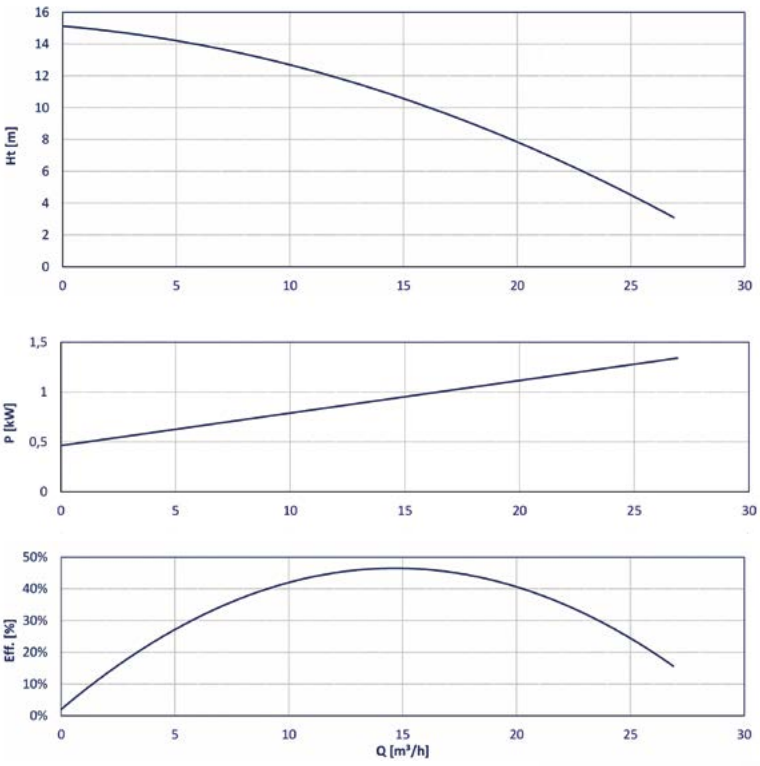
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-830.95	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	250 500 800 1000	**1** = BSP STD **2** = FLANGED	**L** = LOW DENSITY **M** = MEDIUM DENSITY **H** = HIGH DENSITY	**IE** = IEC FLANGE

F = female thread M = male thread

JP-830.110

TECHNICAL DATA JP-830.110

JP-830.110
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	B5
IEC 90	1,5	B5
IEC 90	2,2	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

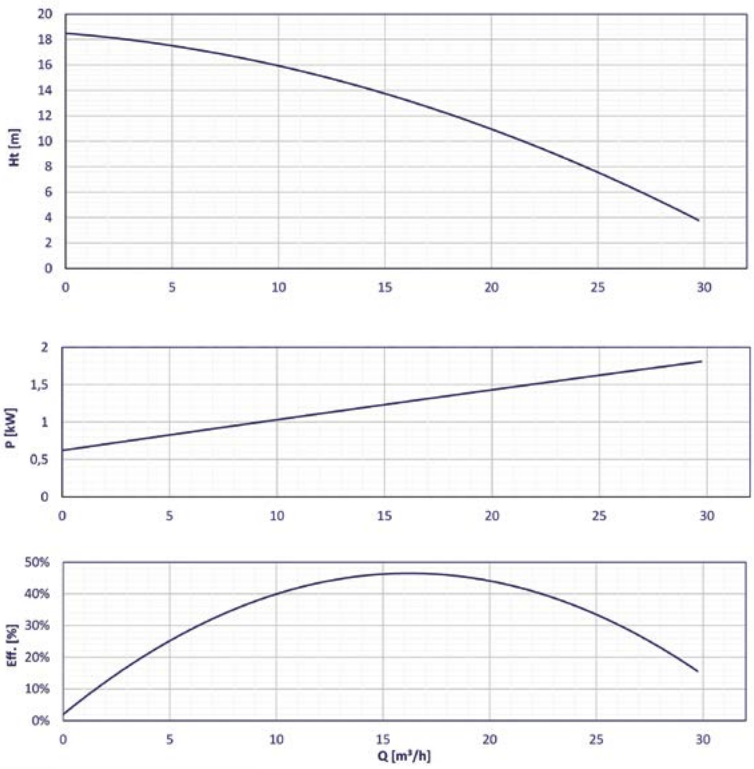
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-830.110	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	500 800 1000 1250	**1** = BSP STD **2** = FLANGED	**L** = LOW DENSITY **M** = MEDIUM DENSITY **H** = HIGH DENSITY	**IE** = IEC FLANGE

F = female thread M = male thread

JP-830.120

TECHNICAL DATA JP-830.120

JP-830.120
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	B5
IEC 90	2,2	B5
IEC 100	3	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

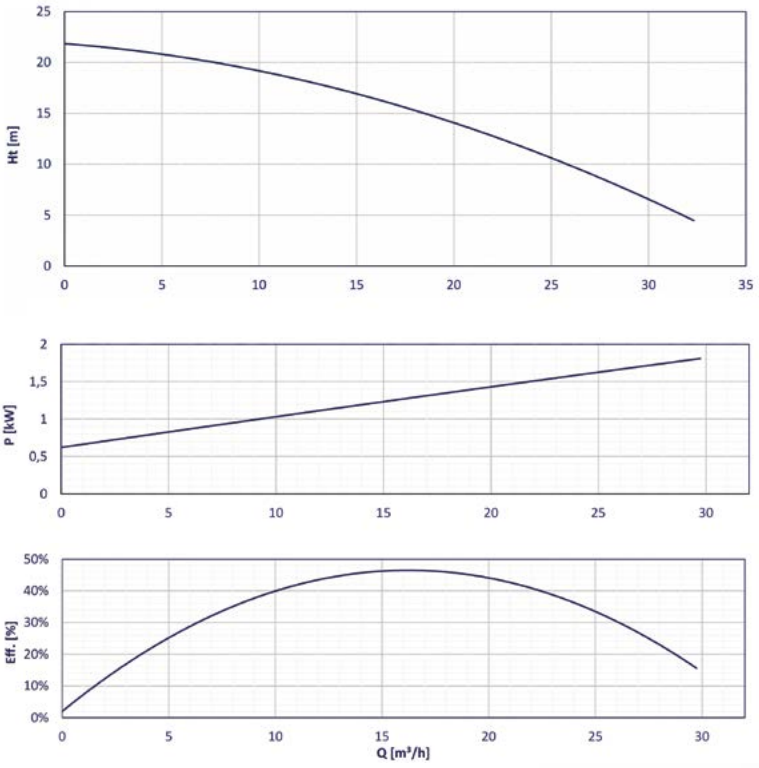
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-830.120	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	500 800 1000 1250	**1** = BSP STD **2** = FLANGED	**L** = LOW DENSITY **M** = MEDIUM DENSITY **H** = HIGH DENSITY	**IE** = IEC FLANGE

F = female thread M = male thread

JP-830.130

TECHNICAL DATA JP-830.130

JP-830.130
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	B5
IEC 100	3	B5
IEC 112	4	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

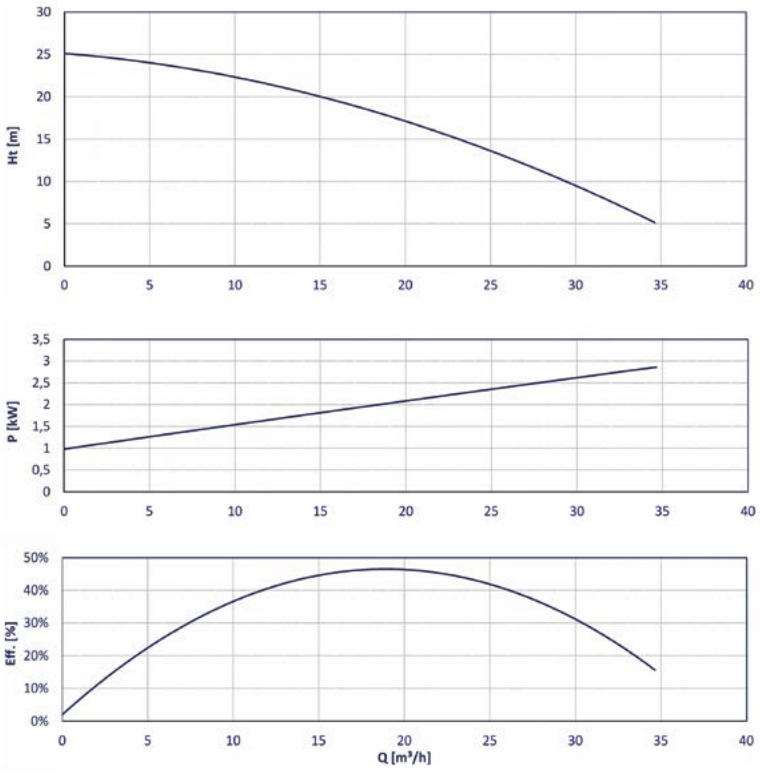
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-830.130	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	500 800 1000 1250	**1** = BSP STD **2** = FLANGED	**L** = LOW DENSITY **M** = MEDIUM DENSITY **H** = HIGH DENSITY	**IE** = IEC FLANGE

F = female thread M = male thread

JP-830.140

TECHNICAL DATA JP-830.140

JP-830.140
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	B5
IEC 112	4	B5
IEC 112	5,5	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

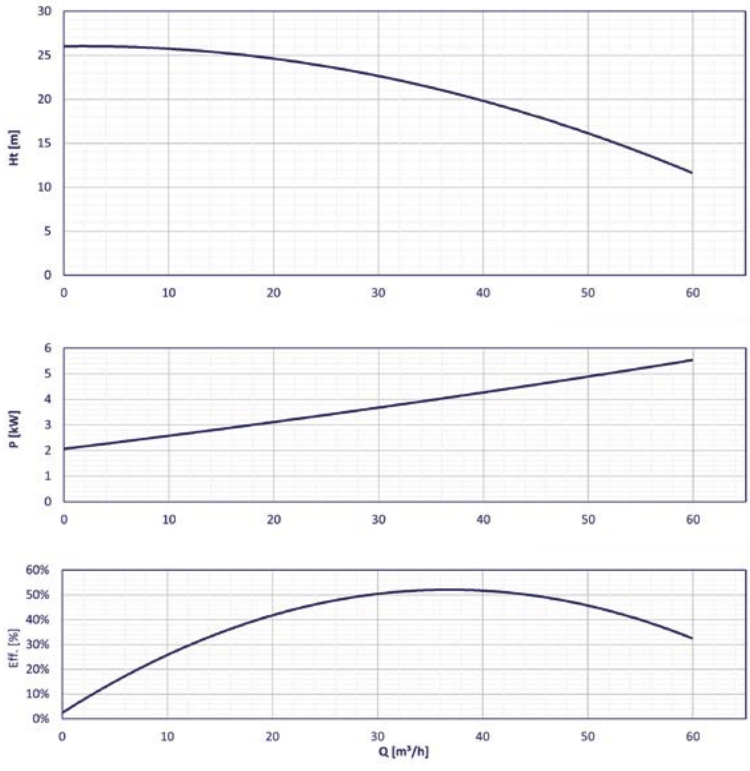
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	PUMP DESIGN	MOTOR VERSION
JP-830.140	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	500 800 1000 1250	**1** = BSP STD **2** = FLANGED	**L** = LOW DENSITY **M** = MEDIUM DENSITY **H** = HIGH DENSITY	**IE** = IEC FLANGE

F = female thread M = male thread

JP-830.145

TECHNICAL DATA JP-830.145

JP-830.145
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 +90 °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	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

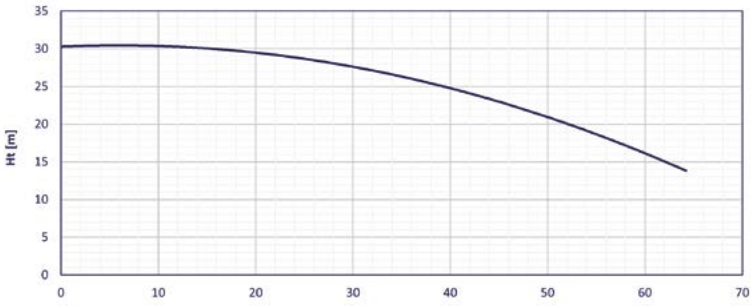
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	FRAME SIZE	MOTOR VERSION
JP-830.145	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	800 1000 1250 1500 1750	**1** = BSP STD **2** = FLANGED	100 112 132 160	**IE** = IEC FLANGE **-** = NO MOTOR

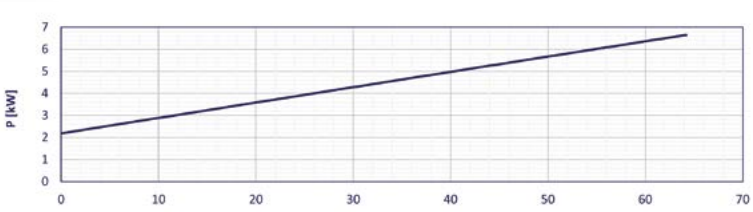
F = female thread M = male thread

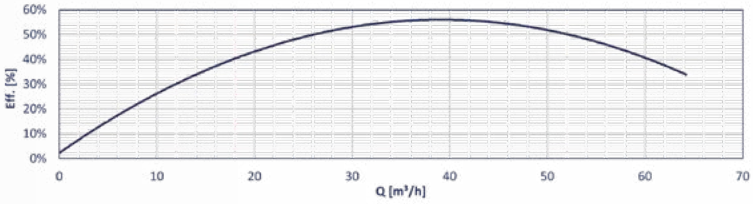
JP-830.150

TECHNICAL DATA JP-830.150

JP-830.150
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	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

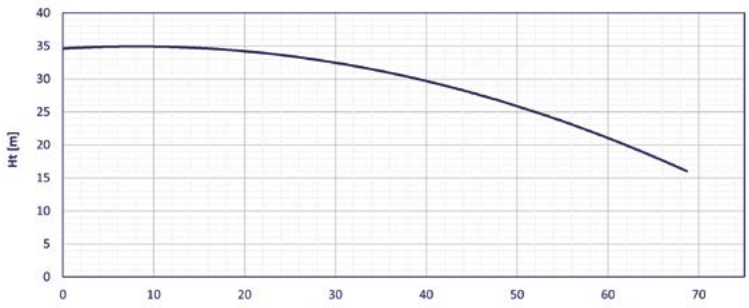
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	FRAME SIZE	MOTOR VERSION
JP-830.150	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	800 1000 1250 1500 1750	**1** = BSP STD **2** = FLANGED	100 112 132 160	**IE** = IEC FLANGE **-** = NO MOTOR

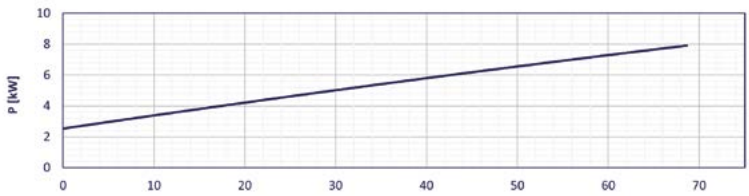
F = female thread M = male thread

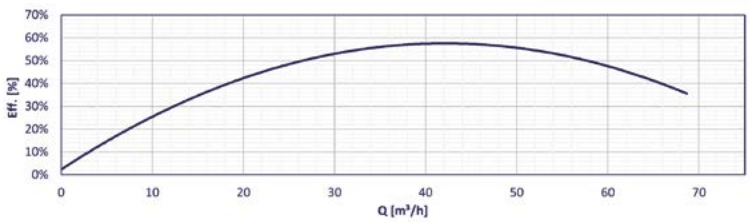
JP-830.160

TECHNICAL DATA JP-830.160

JP-830.160
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







MOTOR SPECIFICATION

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

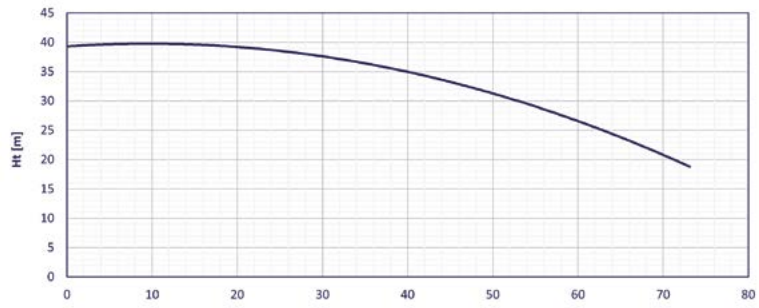
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	FRAME SIZE	MOTOR VERSION
JP-830.160	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	800 1000 1250 1500 1750	**1** = BSP STD **2** = FLANGED	100 112 132 160	**IE** = IEC FLANGE **-** = NO MOTOR

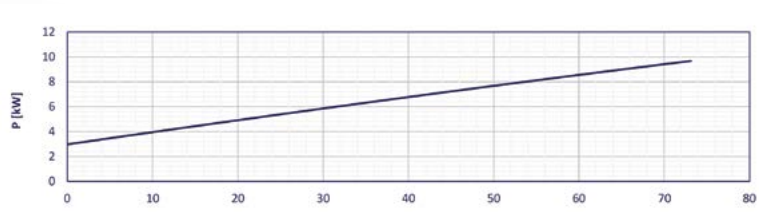
F = female thread M = male thread

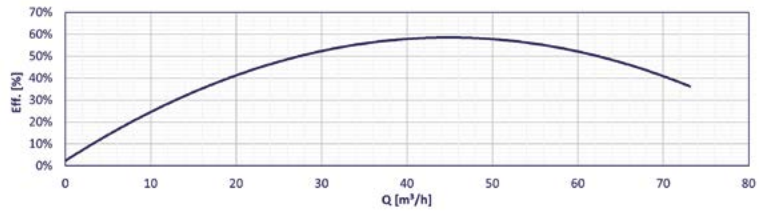
JP-830.170

TECHNICAL DATA JP-830.170

JP-830.170
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	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

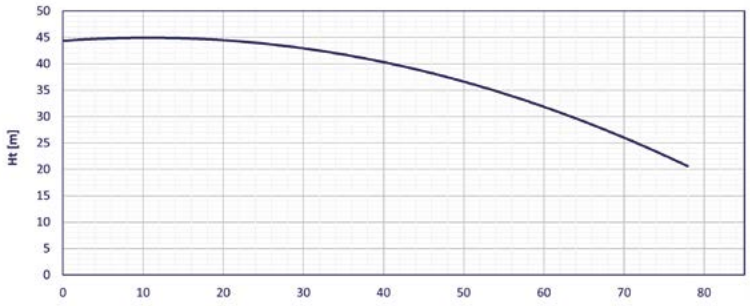
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	FRAME SIZE	MOTOR VERSION
JP-830.170	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	800 1000 1250 1500 1750	**1** = BSP STD **2** = FLANGED	100 112 132 160	**IE** = IEC FLANGE **-** = NO MOTOR

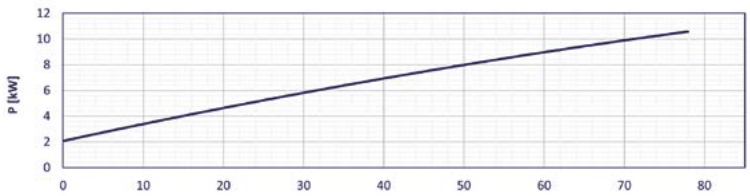
F = female thread M = male thread

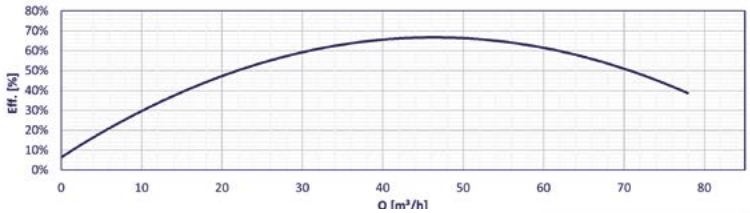
JP-830.180

TECHNICAL DATA JP-830.180

JP-830.180
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







MOTOR SPECIFICATION

N° POLES	2
RPM	2900
FREQUENCY	50 Hz
VOLTAGE	230/400 V
PROTECTION	IP 55
FLANGES	IEC
DESIGN	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	LENGTH mm	CONNECTIONS	FRAME SIZE	MOTOR VERSION
JP-830.180	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	800 1000 1250 1500 1750	**1** = BSP STD **2** = FLANGED	100 112 132 160	**IE** = IEC FLANGE **-** = NO MOTOR

F = female thread M = male thread

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