

JP-380 Electric universal motor

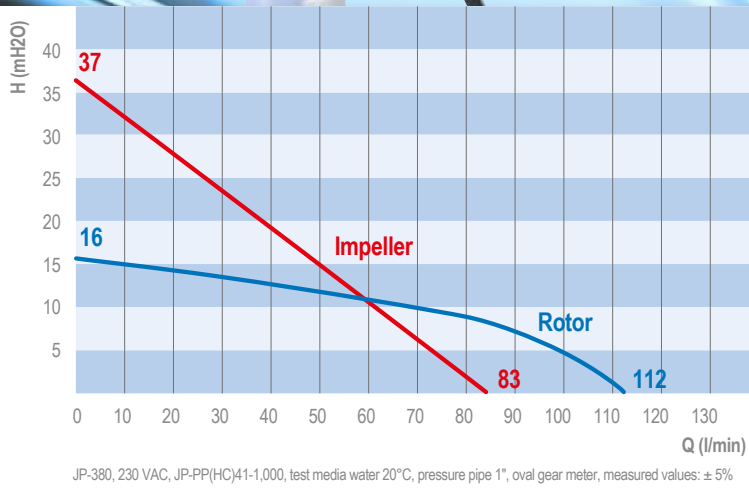
230 Volt, 50 Hz, 825 Watt, IP 55



Description

- The drive JP-380 is a compactly built, not explosion-proof, externally ventilated universal motor.
- This handy, very robust and powerful motor can be used to drive the suction tubes of drum pumps. In this combination it is suitable for many thin liquid and slightly viscous, neutral, aggressive and non-flammable liquids (max. 1,000 mPas). Its sophisticated, technically clear structure ensures an efficient and safe use when transferring a wide range of media.
- The drum pump motor is characterized not only by its light weight (6 kg) but also by its elegant design and ease of use. The non-stationary and stationary usable drive is particularly suitable for intermittent operation. As externally ventilated motor it has an optimal air cooling, low noise and ensures high operational safety and long lifetime.

- The coated motor housing made of aluminium ensures a high chemical resistance when aggressive vapours of acids and alkalis are present.
- The standard integrated low voltage release is intended to prevent an uncontrolled start of the drum pump motor after a power failure or voltage drop and thus guarantees maximum safety.
- The flow rate of the media to be pumped can be regulated by a speed control that is integrated in a keyboard at the top of the motor handle. By means of four speed steps flow rates of 50, 60, 80 and 100 percent can be selected. Therefore the flow rate can be adjusted to the needs of the user.
- The maximum density of the media is for the JP-380 universal motor 1.9, the maximum viscosity 1,000 mPas.



Electric universal motor JP-380

230 Volt, 50 Hz, 825 Watt, IP 55, double insulation protection class II, over load protection, low voltage release and speed control. 5 m cable with plug.

Version in 115 Volt, 60 Hz in preparation.

Operating data JP-380

Flow rate (with hose and oval gear meter): up to 112 l/min (Rotor)*
up to 83 l/min (Impeller)*

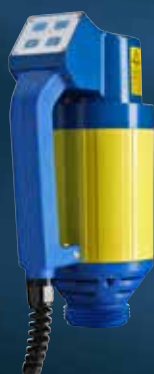
Head: up to 16 m (Rotor)*
up to 37 m (Impeller)*

Viscosity: up to 1,000 mPas*

Density: up to 1,9*

*Data obtained with a 1" pipe are indicated in the performance curve

*Test media water 20 ° C, pressure pipe 1", oval gear meter, measured values: ± 5%



Order No.:

JP-380 1380 2302

230 V 1-, 50 Hz, 825 W
with speed control
without low voltage release

JP-380 1380 2303

230 V 1-, 50 Hz, 825 W
with speed control
with low voltage release



Integrated electronic speed control

The speed of the drum pump motor JP-380 can be controlled electronically via an integrated display on the handle.

This enables an easy adjustment of the flow rate by the user.

Pump tubes made of PVDF for pumping aggressive media such as highly concentrated acids and alkalies, Ø 41 mm



Polyvinylidene fluoride = PVDF pump tubes up to 90 °C

- Can be used for aggressive and hardly flammable media.
- Especially suitable for aggressive media such as high concentrated acids and alkalies.
- Drive shaft made of hastelloy 2,4610.
- Hose connection 1" included (¾" or 1¼" also possible).
- Maximum medium temperature 90 °C.

Examples of media

Hydrobromic acid
Chloric acid
Chromic acid
Hydrofluoric acid
Sodium hypochlorite
Nitric acid and
Sulfuric acid > 90 °C

All media, mentioned at the polypropylene pump tubes can be pumped also.

Material of pump tube	Pump tube diameter	Pump tube length	Version	Order No.
Polyvinylidene-fluoride (PVDF)	Ø 41 mm	700 mm	Rotor	2341 0070
			Impeller	2341 0071
	Ø 41 mm	1,000 mm	Rotor	2341 0100
			Impeller	2341 0101
	Ø 41 mm	1,200 mm	Rotor	2341 0120
			Impeller	2341 0121
	Ø 41 mm	1,500 mm	Rotor	2341 0150
			Impeller	2341 0151

- Special lengths are available on request with short delivery times.

Pump tubes made of Aluminium

for transferring mineral oil products up to 1,000 mPas, Ø 41 mm



Aluminium = Alu pump tubes up to 90 °C

- Suitable for neutral and hardly flammable media.
- Especially suitable for mineral oil products up to 1,000 mPas.
- Drive shaft made of stainless steel 316 Ti.
- Hose connection 1" included (¾" or 1¼" also possible).
- Maximum medium temperature 90 °C.

Examples of media

Drilling emulsions
Diesel
Liquid soap
Liquid wax
Transmission oils
Fuel oil
Hydraulic oils
Machine oils
Mineral oils
and motor oils

Material of pump tube	Pump tube diameter	Pump tube length	Version	Order No.
Aluminium (ALU)	Ø 41 mm	700 mm	Rotor	2441 0070
			Impeller	2441 0071
	Ø 41 mm	1,000 mm	Rotor	2441 0100
			Impeller	2441 0101
	Ø 41 mm	1,200 mm	Rotor	2441 0120
			Impeller	2441 0121
	Ø 41 mm	1,500 mm	Rotor	2441 0150
			Impeller	2441 0151

- Special lengths up to 3,000 mm are available on request with short delivery times.

Pump tubes made of stainless steel 316 Ti

for transferring neutral, slightly aggressive media and especially flammable media like solvents and for use in food industry, Ø 41 mm

Stainless steel = SS pump tubes with Ex approval, outside ex-areas max. 90 and 120 °C

- With SS-pump tubes all neutral, low viscous media as organic and inorganic diluted acids and alkalies are mainly pumped. In addition these ATEX compliant pump tubes are used specifically for pumping highly combustible media such as solvents or gasoline and for use in explosive environments.
- Suitable for flammable media up to temperature class 4 and use in ex-zone 0.
- The pump tubes in stainless steel with a carbon bearing approved for the food sector are used since many years in the food industry and the beverage industry.

- Drive shaft made of stainless steel 316 Ti.
- Hose connection 1" included (¾" or 1¼" also possible).
- EC type examination certificate number ZELM 09 ATEX 0424X.
- Maximum medium temperature 90 °C (with PTFE rotor) or 120 °C or 120 °C (with SS rotor) outside ex areas.



Examples of media

Acetone
 Alcohol
 Ammonia
 Gasoline
 Flammable solvents
 Potassium hydroxide solution
 Sodium hydroxide solution
 Nitrovarnishes
 Perchloroethylene
 Phosphoric acid
 Sulfuric acid (up to 7.5% and over 90%)
 Trichloroethylene
 Toluene

In addition the stainless steel pump tubes are suitable for transferring thin fluid food such as fruit juices, milk, edible oils and all other at aluminium pump tubes mentioned media.

Material of pump tube	Pump tube diameter	Pump tube length	Version	Order No.
Stainless Steel 316 Ti Stainless steel shaft EC type-certificate ZELM 09 ATEX 0424 X Ex II1/2 G c II B T4	Ø 41 mm	700 mm	Rotor	2241 0070
			Impeller	2241 0071
	Ø 41 mm	1,000 mm	Rotor	2241 0100
			Impeller	2241 0101
	Ø 41 mm	1,200 mm	Rotor	2241 0120
			Impeller	2241 0121
	Ø 41 mm	1,500 mm	Rotor	2241 0150
			Impeller	2241 0151
	Ø 41 mm	1,800 mm	Rotor	2241 0180
			Impeller	2241 0181
	Ø 41 mm	2,100 mm	Rotor	2241 0210
			Impeller	2241 0211
	Ø 41 mm	2,400 mm	Rotor	2241 0240
			Impeller	2241 0241
	Ø 41 mm	2,700 mm	Rotor	2241 0270
			Impeller	2241 0271
Ø 41 mm	3,000 mm	Rotor	2241 0300	
		Impeller	2241 0301	
Rotor or impeller made of stainless steel full material for stainless steel pump tubes Ø 41 mm			Rotor	2710
			Impeller	2725

