

JP-480 Explosion-proof electric universal motor

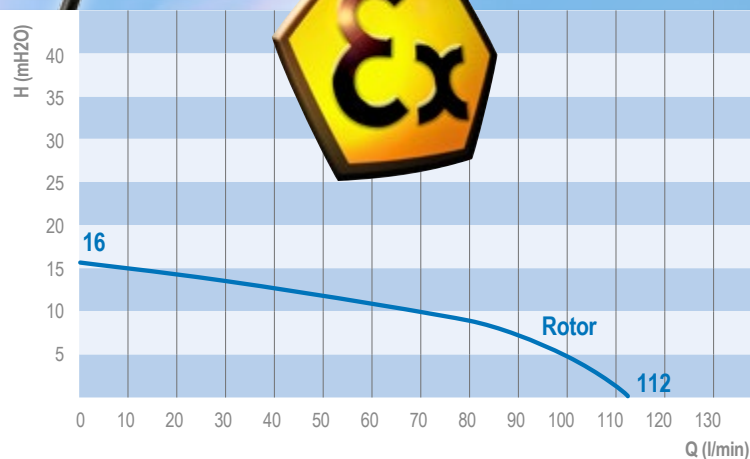
230 Volt, 50/60 Hz, 825 Watt, IP 55, II 2G Ex db IIC T6 Gb

Description

- The drive JP-480 is a compactly built, robust explosion-proof universal motor that is built and approved in accordance with the latest explosion protection guidelines (ATEX 2014/34/EC) and IECEx. The collector motor is explosion-proof according to II 2G Ex db IIC T6 Gb and has an EC-type examination certificate BUREAU VERITAS 17 ATEX 1 088 X and IECEx EPS 17.0045 X. The electric motor Ex-JP-480 offers in addition to the air operated motors maximum protection when pumping flammable media or for use in hazardous environments. At such applications separate authorizations for the drive motor and the pump tube acc. directives ATEX 2014/34/EC are required.
- The handy and powerful device (6,5 kg) can be used as a drive for the ATEX certified sealless pump tubes made of stainless steel (Ø 41 mm), the mixing pump tubes in stainless steel, the pump tubes in stainless steel with mechanical seal or complete drum emptying function and the eccentric screw pump tubes series JP-700 SR PTFE ATEX. In this combination the

drive is suitable for many thin liquid to viscous, neutral, slightly aggressive and easily flammable media with a flash point below 55 °C. Its sophisticated, technically clear structure ensures an efficient and safe use when transferring the wide range of media.

- The drum pump motor is characterized in addition to its robustness 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 standard in the on/off switch integrated low voltage release is intended to prevent an uncontrolled start of the drum pump motor after a power failure or voltage drop. Thus guarantees maximum safety.
- The maximum density of the media is for the JP-480 universal motor 1,9, the maximum viscosity 1000 mPas.



Electric universal motor JP-480

230 Volt, 50/60 Hz, 825 Watt, II 2G Ex db IIC T6 Gb, IP 55, double insulation protection class II, with or without low voltage release. 5 m cable without plug. Optional with Ex-plug.

Also available in 115 Volt, 60 Hz.

Operating data JP-480

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

Head: up to 16 m (Rotor)*

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%



JP-480	Version	Voltage	Order No.
	without LVR	230 V 1 ~, 50/60 Hz, 825 W	1480 2300
		115 V 1 ~, 60 Hz, 825 W	1480 1150
	with LVR	230 V 1 ~, 50/60 Hz, 825 W	1480 2301
		115 V 1 ~, 60 Hz, 825 W	1480 1151

LVR: Low voltage release

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

