

## OPERATING MANUAL

# JP-06

## Chemical hand pump JP-06



**The material of the hand pump consists of polypropylene and PVC**

### Application area

The chemical pump JP-06 is due to the applied material (PVC, PE) on the product only suitable for transporting certain definite liquids. These liquids can be seen from the consistency chart on page 3. It is particularly important in this regard to pay attention to the level of concentration of the liquid and its maximum temperature (60°). However, a reciprocal exchange of the liquids used on the pumps is not possible since that could lead to the creation of new chemical compounds. We do not accept any warranty for damage caused by any improper use of the pump.

Flammable and highly combustible liquids may in no case be used on the pump. This can only be done with a manual pump made out according to ATEX specifications (JP-05).

### Initiation of the pump

1. Screw the chemical pump with the 2" thread into the bung hole opening of the container.
2. Should the container manifest another type of thread (e.g. mauser, trisure), a proper adapter is to be used.
3. Only use the pump in an upright position!
4. Never immerse pump deeper into the liquid then down to the barrel adapter (discharge port).
5. Turn the red button screw joint tight at the upper end of the pump.
6. Start the pumping process until the pumping functions automatically.
7. Pumping procedure is activated.
8. Finish the pumping by releasing the red button screw joint.

The chemical pump JP-06 shows a relatively high hydraulic performance (head).

**In order to stop the automatic pumping procedure, the red button screw joint has to be released!**



The red button screw joint has to be opened after each pumping procedure and may only be turned tight directly before the new procedure. Otherwise the danger an unintended restart of the automatic pumping procedure and thus an uncontrolled spilling of the liquid may occur.

**Caution!**

We do not accept any warranty for damage caused by any improper use and operation of the pump!

## Safety instructions



### Symbol for Operational safety

This symbol is shown at all operational safety instructions in this manual for which there is jeopardy of life and limb. It is therefore essential to adhere to these instructions and to handle the pump with extreme care. These safety instructions are to be passed on to other persons operating this pump. Furthermore, it is also essential to comply with the general instructions for health and safety at work.

### Caution - Note

**Caution!**

This sign is shown where particular heed is to be paid in order to make sure that the corresponding guidelines, instructions and the proper operational steps are being followed and thus any potential damage to the pump and/or parts of the pump avoided.

## Operational safety

The chemical pump JP-06 is produced and designed by respecting the standard basic health and – safety instructions of the corresponding EU-directive.

Should this product be used in contrast to its intended purpose, danger of safety may result from this product. Each person responsible for the assembly, initiation, maintenance and operation of the chemical pump JP-06 is required to have carefully read and understood these instructions.



**The chemical pump JP-06 is exceptionally designed for the transport of certain definite liquids which can be seen from our chart on page 3.**

Each exceeding use as well as modifications on the pump are against the originally intended purpose. The manufacturer is not liable for any damage resulting from improper use; the risk has to be borne solely by the operator of the pump. The compliance with the compulsory instructions for maintenance, assembly, initiation and operation of the pump is also basing on the intended proper use.

The locally valid health and – safety instructions are in any case to be applied for operating this pump. The operator of the chemical pump is obliged to wear proper protective gear: Safety gloves, face mask, safety shield or safety glasses, apron and safety shoes.

## Requirements for the site of installation

As liquids hazardous to water can be transported with our chemical pump JP-06, the rules and regulations of the water economy law (WHG) as well as the regulations of the different German Lander have also to be respected.

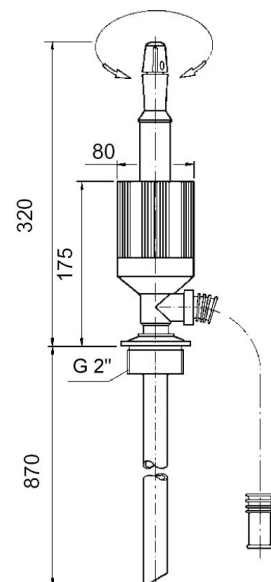
**Caution!**

It is explicitly prescribed according to § 19 g WHG that pumps for transferring liquids should be made out, installed, maintained and operated so to avoid a contamination of the waters or do any harm to the surrounding environment.

**Caution!**

The operator of such pumps is furthermore obliged according to § 19 g WHG to make sure that the above mentioned instructions are being applied to.

Specification	
<b>Performance:</b>	app. 0,2 l/stroke
<b>Flow rate:</b>	app. 10 l/min according to pumping head
<b>Thread:</b>	2"
<b>Suction tube:</b>	L app. 840 mm, can be shortened
<b>Weight:</b>	app. 0,35 kg



## Consistency chart for polyvinylchloride (PVC) and polyethylene (PE)

Medium	Concentration	Temperature °C
Acetic acid	Trade - Standard	20
Acetic acid, hydrous	-25%	40
Adipic acid	Saturated	20
Adipic acid, hydrous	Saturated	20
Aluminium chloride, hydrous	Diluted	40
Ammonium sulphate, hydrous	Diluted	40
Anti-freeze	Trade-standard	20
Battery acid		60
Borax, hydrous	Diluted	40
Chloramine, hydrous	Diluted	20
Choric acid, hydrous	1%, 10%, 20%	40
Cuprous salt, hydrous.	Cold saturated	20
Dichloroacetic acid	Techn. Pure	20
Ethylene alcohol, hydrous	-20%	20
Ethylene glycol	Technically .pure	20
Formic acid, hydrous	-50%	40
Formic acid, hydrous	100%	20
Formic acid, hydrous	Technically pure	20
Glucose, hydrous	Saturated	20
Glycerine, hydrous	Various	60
Glycol, hydrous	Trade-standard	60
Hydrogen peroxides, hydrous	-30%	20
Hydrogen peroxides, hydrous	-20%	50
Lactic acid, hydrous	-10%	40
Malic acid	Trade standard	20
Malic acid, hydrous	1%	20
Photo developer	Trade-standard	40
Photo emulsion	Various	40
Photo fixing baths	Trade-standard	40
Potassium borate	1%	40
Potassium chromate, hydrous	40%	20
Sea water		40
Silicon oil	Technically pure	20
Soap solution	Concentr.	20
Sodium carbonate	Cold saturated	20
Sodium chloride, hydrous.	Diluted	40
Sodium hydroxide, hydrous.	-40%	40
Sulphur acid, hydrous	-70 %	20
Sulphur dioxide	Various	40
Tartaric acid, hydrous	-10%	40
Trichloroacetic acid	Technically pure	20
Vinegar	Trade-standard	40
Water		20
Water (distilled)		60
Zinc chloride, hydrous	Diluted	40

The manual chemical pump JP-06 consists of the fabrics PVC and PE and is consistent with the hereon listed chemicals as well as generally numerous other chemicals. As, however, the employment of the pump is beyond our company's control and influence – particularly regarding the reciprocate use of liquids, differing temperatures and concentration of acids used – we cannot assume any liability. **The pumping of mineral oils, diesel, petrol, etc. is definitely not permitted with this pump.**

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