



Instructions for personal safety and prevention of damage to the cooling lubricant mixer and property.



## Environmental influences

The mixer must be protected from environmental influences.



## Water connection

Connection to drinking water pipes must always be made using a backflow preventer type CA, suitable for the liquid categories:

1, 2, 3 according to DIN EN 1717.

**The backflow preventer is NOT included in the scope of supply.**



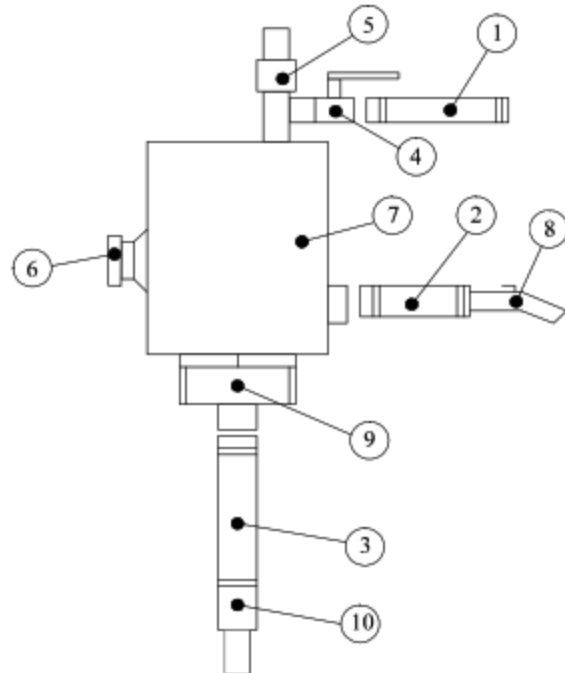
## Miscible media

Only water and cooling lubricants may be mixed.

Never mix solvent-containing liquids such as paint thinners, benzene or similar liquids.

Solvent-containing liquids are highly flammable, potentially explosive and toxic. Spilt liquids must immediately be removed, cleaned and if necessary reported to the responsible water supply company.

**Environmental, waste and water protection regulations must be observed by users.**



Item 1 - Water hose	DN 13 x 1300 mm
Item 2 - Outlet hose	DN 19 x 2000 mm
Item 3 - Suction hose	DN 19 x 900 mm
Item 4 - Ball Valve	3/8"
Item 5 - Anti-vacuum valve	3/8"
Item 6 - Adjusting knob	
Item 7 - Metal housing	
Item 8 - Outlet Knee	
Item 9 - Reducing Fitting 2 x 1"	
Item 10 - Voot Falve 3/4"	

Nameplate	Side view top right
Water pipe	1/2"
Nameplate	Side view top right
Flow pressure	min. 2 bar
Litre capacity	1500 l/h
Maintenance	None

## Troubleshooting

### Fault: No/inconsistent mixing

#### Cause:

- ☞ Oil drum empty
- ☞ Suction hose not tightened properly
- ☞ Check valve on suction hose clogged
- ☞ Suction pipe cross section changed
- ☞ No or insufficient water

#### Measure:

- ☞ Change oil drum
- ☞ Tighten suction hose
- ☞ Clean check valve, replace if necessary
- ☞ Use original suction + outlet hose
- ☞ Check water pipe cross section, replace conventional water tap with a ball valve (aperture of total cross section)

### Important ↓

The outlet hose must not be shortened, blocked or lengthened, the maximum length is 2000 mm.

The manufacturer is continually working on the further development of all device types. The scope of supply is therefore subject to changes with regard to specific features, technology and dimensions.

No claims can be derived from data, illustrations and descriptions in these operating instructions.

**Only specialists may carry out repairs!**

#### Commissioning:

Dip the intake hose with foot valve in the bung-hole of the concentrate drum R2" and screw the mixing device on to the concentrate drum.

Open the 3/4" bung-hole, so that a vacuum is not created.

Attach water connection to Pos.1. Comply with the local water supply regulations.

The connection to the water pipe must be of a flexible nature.

Open ballcock, Pos.4.

Using the adjustment knob, Pos.6, the blend can be infinitely adjusted.

Never reduce, extend or shut-off the discharge hose, Pos.2.

Since the viscosity of the concentrate is considerably temperature dependent, we recommend the use of a handrefractometer for adjustment, respectively subsequent checking

Note the information label on the mixer:

The outlet hose must not be lengthened, blocked or shortened.

### **Basic setting 2 approx 5%**

Now turn up or down mixture controller at steps of 1 mm, until desired concentration is reached.

Set concentration by using a refractometer.

#### **Important:**

The mixer must always be connected using a flowback preventer as defined in DIN 1717.