2023-05-30

TOP ENTERING AGITATOR: 30V35

POS 1 (41254-1) Replacement of SCABA Agitator WA74-50, order 02.8765-0 Quantity: 1

AGITATION PURPOSE: PRODUCTS INVOLVED:

To prevent sedimentation, Keeping organic content homogeneo Municipal waste water, no rags

TANK DIMENSIONS: MEDIA DATA:

5700 mm Herschel-Bulkley flow curve Tau=0+5*(dv/dy)**1 mPas Height Width 3600 mm Exp. in power law for visc. force Average viscosity (at 26/s) 5500 mm 5 mPas Length Max liquid level 5000 mm Maximum viscosity ratio 10 Min agitation level 2150 mm Maximum density difference 0.1 Maximum density Mounting level above bottom (M) 5900 mm 1.05 g/cm3 Temperature ~5-20 degrees C

MOTOR: GEAR BOX:

Manufacturer/TypeSEW - DFR63M4Manufacturer/TypeSEW - RF57Power/Rotational speed0.18 kW - 1500 rpmOutgoing rotational speed25 rpmFrequency/Voltage50 Hz - 230/400 VMounting positionV1(M4)

Protection IP55
Material Aluminium
The motor is equipped with rain guard.
Maximum noise level 70 dB

Stated noise level applicable only to motor-gear box. The combination with agitator housing and tank can give higher values.

SHAFT:

 Diameter
 30 mm

 Length
 4500 mm

 Shaft type
 Solid

 Material shaft
 EN 1.4460

IMPELLERS:

2SHP18 Type Diameter 1500 mm Bladethickness 5 mm Blade fastening Welded EN 1.4460 Material hub Material blade EN 1.4162 Keyway Hub fastening 1400 mm Height over bottom

Surface finish De-scaled, chamfered edges

Smallest mounting opening 350 mm

PAINTING:

 Motor
 Alkyd (C3) NCS 1700

 Gearbox
 Alkyd (C3) NCS 1700

LOAD DATA: INSTALLATION INSTRUCTION:

Axial force 152 N No. 45175

Torque 69 Nm Measures a=b, d=f, M=5900 mm, L=4500 mm

Bending moment 139 Nm Total weight 73 kg

Use at least three times the above data for the dimensioning of the tank and agitator support

Min. allowed stiffness of mounting 52026 Nm/radian

SPECIAL PRESUMPTIONS / OTHERS:

Outlet shall be placed in the bottom zone area. It is not allowed to run the agitator in air

Mounting flange is not included in the delivery.

PERFORMANCE:

The total pumping capacity in water is 42 m3/min