

地埋式污水一体化预制泵站水泵扬程的核算

产品名称	地埋式污水一体化预制泵站水泵扬程的核算
公司名称	盐城思源给排水设备有限公司
价格	58000.00/台
规格参数	思源:给排水 盐城:建湖
公司地址	建湖县县城民营工业园3号路79号
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产品详情

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?1??????????

$$Q=277.8 \text{ m}^3/\text{h} \text{????????DN300mm????????????DN250mm??? ?}$$

$$\text{????????}v?=4Q/?/D2=4*277.8/3.14/0.3/0.3=1.09\text{m/s} \quad \text{????????????01?}$$

$$? \quad 1000i=7.27$$

$$\text{????????}v?=4Q/?/D2=4*277.8/3.14/0.25/0.25=1.57\text{m/s} \quad \text{????????????01?}$$

$$? \quad 1000i=11.0$$

????????????200mm ? 150mm

$$??v??=2.46\text{m/s} \quad v??=4.37\text{m/s}$$

(2)????????????

??????????

????? $D=1.5*300=450\text{mm}$? $\lambda_1=0.1$

D300 90° ????? $\lambda_2=0.78$

D300????? $\lambda_3=0.07$

D300*200????????? $\lambda_4=0.18$

?????????????

$H_{??} = \sqrt{2i/2g} = [(0.1+0.78+0.07)*1.092+0.18*2.462]/2/9.8=0.11\text{m}$

??????3m?? $h_{??} = 3*7.27/1000=0.02\text{m}$

(3)?????????

???????????

D150*250???? ?? $\lambda_1=0.18$

D250????????? $\lambda_2=3.0$

D250????? $\lambda_3=0.07$

D250 90° ????? $\lambda_4=0.87$

?????????????

$H_{??} = \sqrt{2i/2g} = \sqrt{3.0+0.07+0.87*4+0.18*1.57*1.57/2}/9.8=0.74\text{m}$

??????30m,? ????????????

$h_{??} = 30*11.0/1000=0.33\text{m}$

?????????? $h=0.11+0.02+0.74+0.33=1.2\text{m}$

????????? $H=11.4+1.2+1.0=13.6\text{m} < 16\text{m}$????????????????