BERKELEY®

VERTICAL LINESHAFT TURBINES

<table>
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<th>No. Stages</th>
<th>Eff.</th>
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12VT1100 CLOSED IMPELLER

R.P.M. 1770

SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 4 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 4 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.

Maximum Operation Speed - RPM 1800
Pump Shaft Diameter - inch 1.687
Bowl Weight, 1st Stg W/L - lbs 196
Bowl Weight, 1st Stg O/L - lbs 244
Bowl Weight, Ea. Add Stage - lbs 92
Allowable Shaft Stretch - inch 1.28
Std Max Working Pressure - PSI 400
Optional Max Working Pressure - PSI 700
Impeller Eye Area - Sq. In 21.6
Rotor Weight 1st/add stages - lbs 28
Additional Length Per Stage - inch 10.5
Discharge Thread Column - inch 8 or 10

Maximum Sphere Size - inch 0.81
Thrust Factor - Kt 7.16
Submergence - inch 34
Max Bowl Brg Clearance - in. dia 0.014
Max Wear Ring Clearance - in. dia 0.015
Max Bowl O.D. - inch 11.75
Suction Bell O.D. - inch 13
Standard Max Number Stages 9
Optional Max Number Stages 16
Suction Threads NPT - inch 8 or 10
BERKELEY®
VERTICAL LINESHAFT TURBINES

No. Stages | Eff. | 12VT1100K SEMI-OPEN IMPELLER 1770 R.P.M.
--- | --- | ---
1 | -2 | Single stage lab performance with standard materials. Efficiency shown for 4 or more stages. Horse power shown for one stage based on 4 stage efficiency. Corrections should be made for stages and material.
2 | -1 |
3 | 0 |
4 | 0 |

Maximal Operation Speed - RPM: 1800
Maximum Sphere Size - inch: 0.81
Pump Shaft Diameter - inch: 1.687
Thrust Factor - Kt: 13.11
Bowl Weight, 1st Stg W/L - lbs: 196
WR: 0.51
Bowl Weight, 1st Stg O/L - lbs: 244
Running Position (Above Seat) - inch: 0.015
Bowl Weight, Ea. Add Stage - lbs: 92
Submergence - inch: 34
Allowable Shaft Stretch - inch: 1.28
Max Bowl Brg Clearance - in. dia: 0.014
Std Max Working Pressure - PSI: 400
Max Wear Ring Clearance - in. dia: N/A
Optional Max Working Pressure - PSI: 0
Max Bowl O.D. - inch: 11.75
Impeller Eye Area - Sq. In: 21.6
Suction Bell O.D. - inch: 13
Rotor Weight 1st/add stages - lbs: 22.4
Standard Max Number Stages: 9
Additional Length Per Stage - inch: 10.5
Optional Max Number Stages: 0
Discharge Thread Column - inch: 8 or 10
Suction Threads NPT - inch: 6 or 10

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