

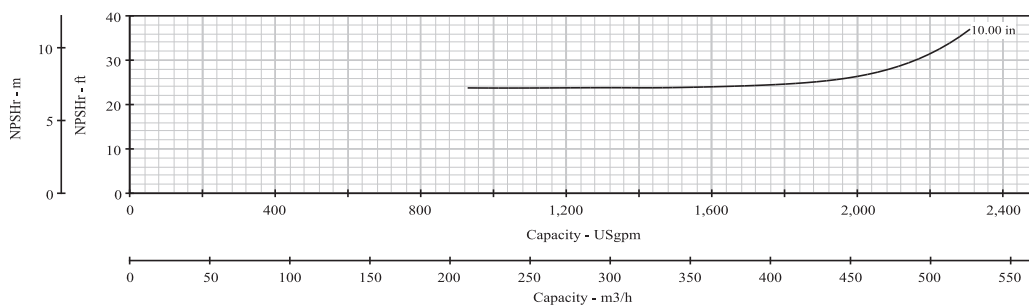
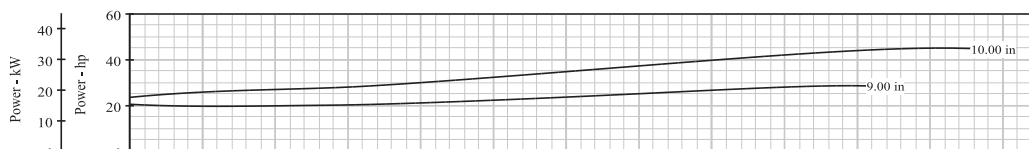
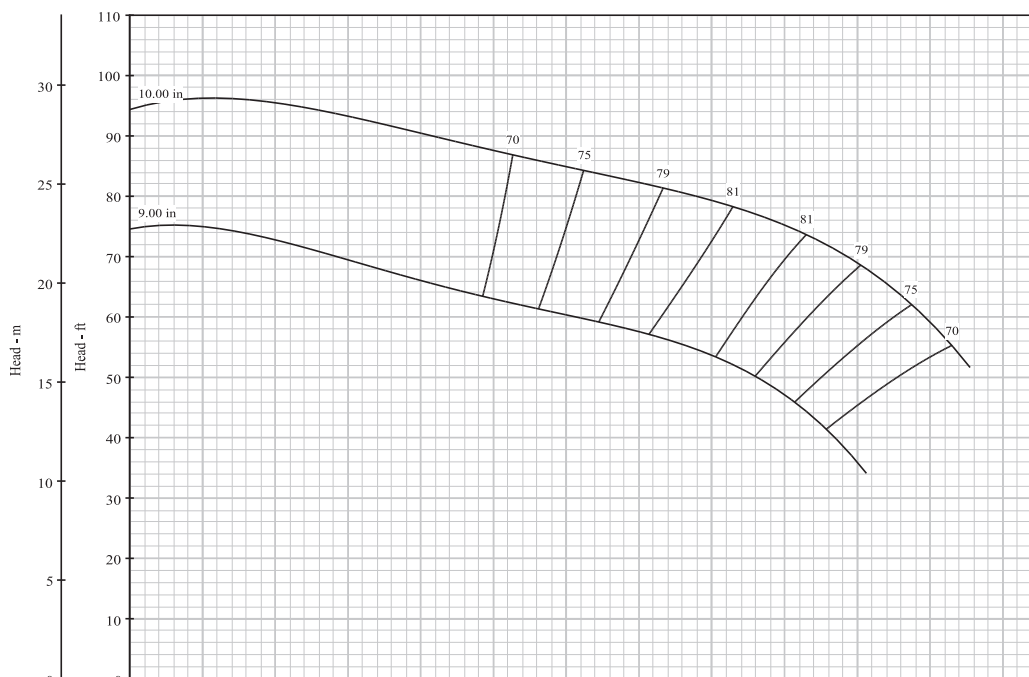
# BERKELEY®

## VERTICAL LINESHAFT TURBINES

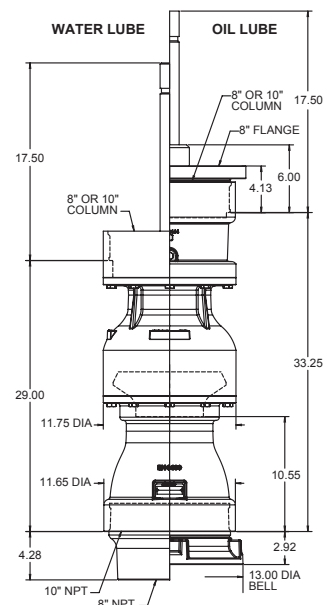
No. Stages	Eff.
1	-2
2	-1
3	0
4	0

**12VT1650** CLOSED IMPELLER 1770 R.P.M.

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	Maximum Sphere Size - inch	1.10
Pump Shaft Diameter - inch	1.687	Thrust Factor - Kt	12.29
Bowl Weight, 1st Stg W/L - lbs	216	WR2	1.57
Bowl Weight, 1st Stg O/L - lbs	264	Running Position (Above Seat) - inch	0.200
Bowl Weight, Ea. Add Stage - lbs	125	Submergence - inch	52
Allowable Shaft Stretch - inch	1.25	Max Bowl Brg Clearance - in. dia	0.014
Std Max Working Pressure - PSI	400	Max Wear Ring Clearance - in. dia	0.015
Optional Max Working Pressure - PSI	700	Max Bowl O.D. - inch	11.75
Impeller Eye Area - Sq. In	31.9	Suction Bell O.D. - inch	13
Rotor Weight 1st/add stages - lbs	36	Standard Max Number Stages	9
Additional Length Per Stage - inch	15.5	Optional Max Number Stages	11
Discharge Thread Column - inch	8 or 10	Suction Threads NPT - inch	8 or 10



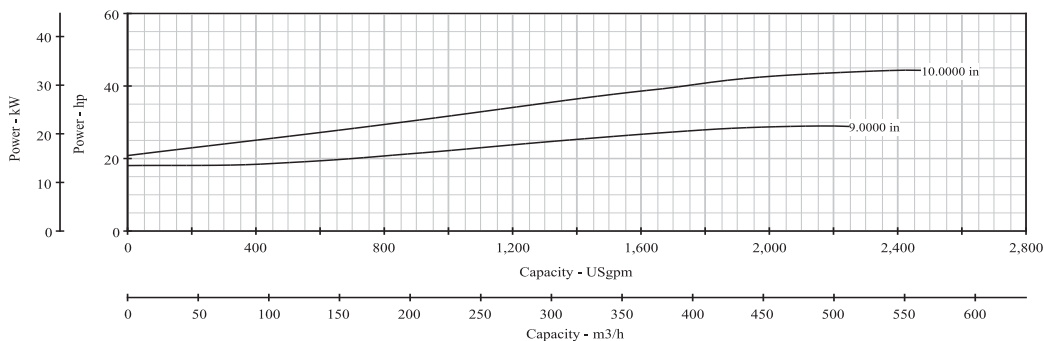
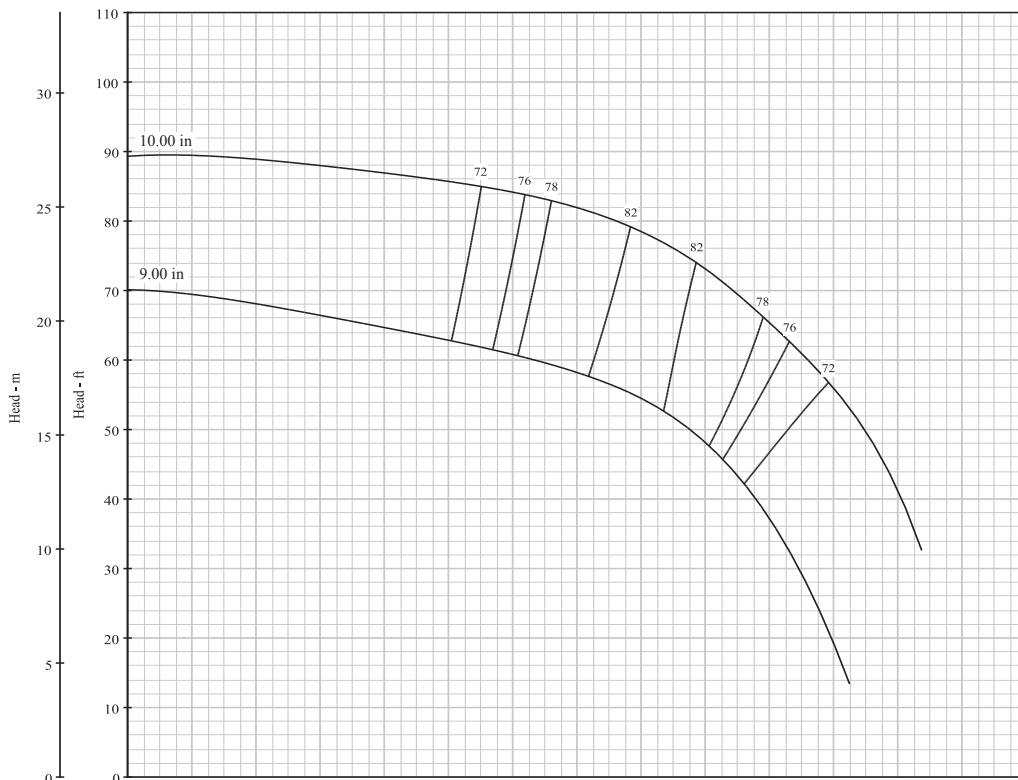
# BERKELEY®

## VERTICAL LINESHAFT TURBINES

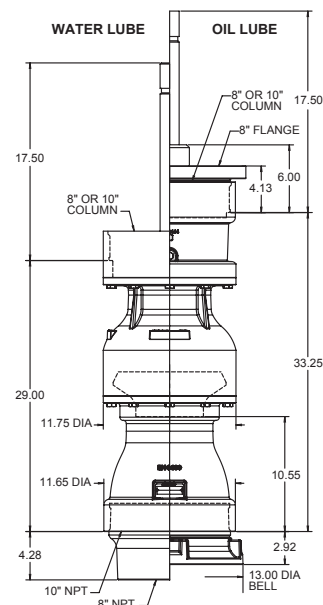
No. Stages	Eff.
1	-2
2	-1
3	0
4	0

### 12VT1650K SEMI-OPEN IMPELLER 1770 R.P.M.

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	Maximum Sphere Size - inch	1.10
Pump Shaft Diameter - inch	1.687	Thrust Factor - Kt	18.48
Bowl Weight, 1st Stg W/L - lbs	216	WR <sup>2</sup>	0.51
Bowl Weight, 1st Stg O/L - lbs	264	Running Position (Above Seat) - inch	0.015
Bowl Weight, Ea. Add Stage - lbs	125	Submergence - inch	50
Allowable Shaft Stretch - inch	1.25	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	31.9	Suction Bell O.D. - inch	13
Rotor Weight 1st/add stages - lbs	25.7	Standard Max Number Stages	9
Additional Length Per Stage - inch	15.5	Optional Max Number Stages	0
Discharge Thread Column - inch	8 or 10	Suction Threads NPT - inch	8 or 10



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