

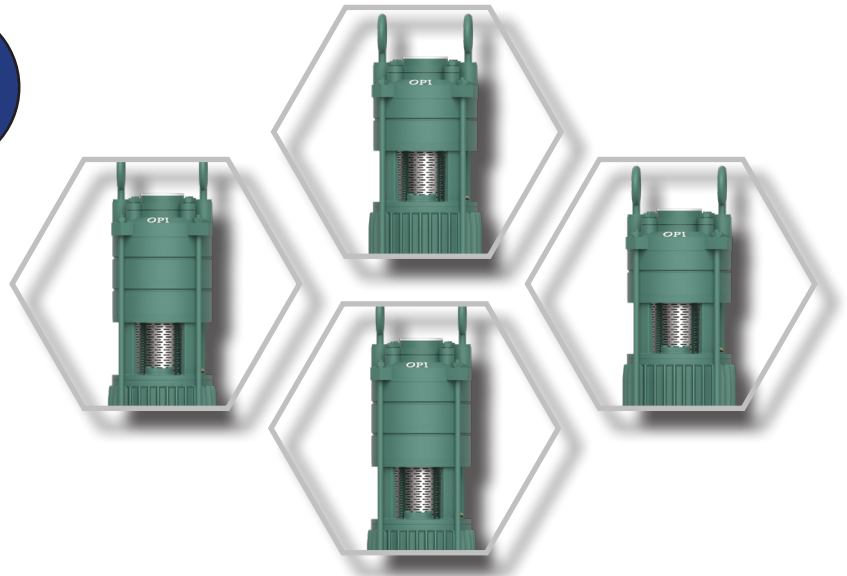
## VERTICAL OPENWELL

LOAD  
LOSS

COVERSION  
CHART

TIPS &  
FIX

DO'S AND  
DON'TS



## OPI TECHNICAL APPENDIX

## TECHNICAL APPENDIX SUBMERSIBLE PUMP

## OPI VERTICAL OPENWELL TECHNICAL DATA

# SUBMERSIBLE VERTICAL OPENWELL- THREE PHASE



## 24 LOAD LOSS AND SPEED TABLE :

| FLOW |       |      | NEW GALANISED PIPING                    |       |       |        |        |      |                                                                |       |        |      |
|------|-------|------|-----------------------------------------|-------|-------|--------|--------|------|----------------------------------------------------------------|-------|--------|------|
|      |       |      | NOMINAL DIAMETER: INCHES ( ) AND MM ( ) |       |       |        |        |      |                                                                |       |        |      |
| I/s  | I/min | m³/h | 1/2"                                    | 3/4"  | 1"    | 1" 1/4 | 1" 1/2 | 2"   | 2" 1/2                                                         | 3"    | 3" 1/2 | 4"   |
|      |       |      | 15.75                                   | 21.25 | 27    | 35.75  | 41.25  | 52.5 | 68                                                             | 80.25 | 92.5   | 105  |
| 0.17 | 10    | 0.6  | 0.856                                   | 0.47  | 0.291 |        |        |      |                                                                |       |        |      |
|      |       |      | 9.01                                    | 20.9  | 0.65  |        |        |      | HAZEN WILLIAMS<br>CALCULATION FORMULA<br>(UNI EN 12845 13.2.1) |       |        |      |
| 0.25 | 15    | 0.9  | 1.284                                   | 0.705 | 0.439 | 0.249  |        |      |                                                                |       |        |      |
|      |       |      | 19.07                                   | 4.43  | 1.38  | 0.35   |        |      |                                                                |       |        |      |
| 0.33 | 20    | 1.2  | 1.712                                   | 0.94  | 0.582 | 0.332  | 0.25   |      |                                                                |       |        |      |
|      |       |      | 32.47                                   | 7.55  | 2.35  | 0.6    | 0.3    |      |                                                                |       |        |      |
| 0.42 | 25    | 1.5  | 2.14                                    | 1.175 | 0.728 | 0.415  | 0.31   |      |                                                                |       |        |      |
|      |       |      | 49.06                                   | 11.41 | 3.55  | 0.91   | 0.45   |      |                                                                |       |        |      |
| 0.5  | 30    | 1.8  | 2.568                                   | 1.411 | 0.874 | 0.498  | 0.37   | 0.23 |                                                                |       |        |      |
|      |       |      | 68.74                                   | 15.98 | 4.98  | 1.27   | 0.63   | 0.2  |                                                                |       |        |      |
| 0.58 | 35    | 2.1  | 2.996                                   | 1.646 | 1.019 | 0.581  | 0.44   | 0.27 |                                                                |       |        |      |
|      |       |      | 91.42                                   | 21.26 | 6.62  | 1.69   | 0.84   | 0.26 |                                                                |       |        |      |
| 0.67 | 40    | 2.4  |                                         | 1.881 | 1.165 | 0.664  | 0.5    | 0.31 |                                                                |       |        |      |
|      |       |      |                                         | 27.22 | 8.48  | 2.16   | 1.08   | 0.33 |                                                                |       |        |      |
| 0.83 | 50    | 3    |                                         | 2.351 | 1.456 | 0.831  | 0.62   | 0.39 | 0.23                                                           |       |        |      |
|      |       |      |                                         | 41.13 | 12.81 | 3.27   | 1.63   | 0.5  | 0.14                                                           |       |        |      |
| 1    | 60    | 3.6  |                                         | 2.821 | 1.747 | 0.997  | 0.75   | 0.46 | 0.28                                                           |       |        |      |
|      |       |      |                                         | 57.63 | 17.95 | 4.58   | 2.28   | 0.7  | 0.2                                                            |       |        |      |
| 1.17 | 70    | 4.2  |                                         | 3.291 | 2.039 | 1.163  | 0.87   | 0.54 | 0.32                                                           | 0.23  |        |      |
|      |       |      |                                         | 76.64 | 23.88 | 6.08   | 3.03   | 0.94 | 0.27                                                           | 0.12  |        |      |
| 1.33 | 80    | 4.8  |                                         |       | 2.33  | 1.329  | 1      | 0.62 | 0.37                                                           | 0.26  |        |      |
|      |       |      |                                         |       | 30.57 | 7.79   | 3.88   | 1.2  | 34                                                             | 0.15  |        |      |
| 1.5  | 90    | 5.4  |                                         |       | 2.621 | 1.495  | 1.12   | 0.69 | 0.41                                                           | 0.3   |        |      |
|      |       |      |                                         |       | 38.01 | 9.96   | 4.83   | 1.49 | 0.42                                                           | 0.19  |        |      |
| 1.67 | 100   | 6    |                                         |       | 2.912 | 1.661  | 1.25   | 0.77 | 0.46                                                           | 0.33  | 0.25   |      |
|      |       |      |                                         |       | 46.19 | 11.77  | 5.86   | 1.81 | 0.51                                                           | 0.23  | 0.11   |      |
| 2.08 | 125   | 7.5  |                                         |       | 3.641 | 2.077  | 1.56   | 0.96 | 0.57                                                           | 0.41  | 0.31   | 0.24 |
|      |       |      |                                         |       | 69.79 | 17.79  | 8.86   | 2.74 | 0.78                                                           | 0.35  | 0.17   | 0.09 |
| 2.5  | 150   | 9    |                                         |       |       | 2.492  | 1.87   | 1.16 | 0.69                                                           | 0.49  | 0.37   | 0.29 |
|      |       |      |                                         |       |       | 24.92  | 12.41  | 3.84 | 1.09                                                           | 0.49  | 0.24   | 0.13 |
| 2.92 | 175   | 10.5 |                                         |       |       | 2.907  | 2.18   | 1.35 | 0.8                                                            | 0.58  | 0.43   | 0.34 |
|      |       |      |                                         |       |       | 33.15  | 16.51  | 5.1  | 1.45                                                           | 0.65  | 0.32   | 0.17 |
| 3.33 | 200   | 12   | 3.322                                   | 2.5   | 1.54  | 0.92   | 0.66   | 0.5  | 0.39                                                           | 0.25  |        |      |
|      |       |      | 42.43                                   | 21.14 | 6.53  | 1.85   | 0.83   | 0.41 | 0.22                                                           | 0.08  |        |      |
| 4.17 | 250   | 15   | 4.156                                   | 3.12  | 1.93  | 1.15   | 0.82   | 0.62 | 0.48                                                           | 0.31  |        |      |
|      |       |      | 64.12                                   | 31.94 | 9.87  | 2.8    | 1.25   | 1.63 | 0.34                                                           | 0.12  |        |      |

White cells ( ) : Load losses in m. for every 100m of pipework

Light Blue cells ( ) : Water speed in m/sec  
The table refers to galvanised pipework

For other material multiply as follows:

- **0.6** For PVC Pipes
- **0.7** For aluminium Pipes
- **0.8** For Laminated Steel.
- **0.8** For Stainless steel

# SUBMERSIBLE VERTICAL OPENWELL- THREE PHASE



## 25. LOAD LOSS AND SPEED TABLE :

| FLOW  |       |      | NEW GALANISED PIPING                                            |                                                                |       |        |        |       |        |       |        |      |
|-------|-------|------|-----------------------------------------------------------------|----------------------------------------------------------------|-------|--------|--------|-------|--------|-------|--------|------|
|       |       |      | NOMINAL DIAMETER: INCHES ( <div></div> ) AND MM ( <div></div> ) |                                                                |       |        |        |       |        |       |        |      |
| l/s   | l/min | m³/h | 1/2"                                                            | 3/4"                                                           | 1"    | 1" 1/4 | 1" 1/2 | 2"    | 2" 1/2 | 3"    | 3" 1/2 | 4"   |
|       |       |      | 15.75                                                           | 21.25                                                          | 27    | 35.75  | 41.25  | 52.5  | 68     | 80.25 | 92.5   | 105  |
| 5     | 300   | 18   |                                                                 | 3.74                                                           | 2.31  | 1.38   | 0.99   | 0.74  | 0.58   | 0.38  | 0.27   |      |
|       |       |      |                                                                 | 44.75                                                          | 13.83 | 3.92   | 1.75   | 0.88  | 0.47   | 0.17  | 0.07   |      |
| 6.67  | 400   | 24   |                                                                 | 4.99                                                           | 3.08  | 1.84   | 1.32   | 0.99  | 0.77   | 0.5   | 0.35   |      |
|       |       |      |                                                                 | 76.2                                                           | 23.55 | 6.68   | 2.98   | 1.49  | 0.8    | 0.28  | 0.12   |      |
| 8.33  | 500   | 30   |                                                                 |                                                                | 3.85  | 2.3    | 1.65   | 1.24  | 0.96   | 0.63  | 0.44   |      |
|       |       |      |                                                                 |                                                                | 35.58 | 10.09  | 4.51   | 2.26  | 1.22   | 0.43  | 0.18   |      |
| 10    | 600   | 36   |                                                                 |                                                                | 4.62  | 2.75   | 1.98   | 1.49  | 1.16   | 0.75  | 0.53   | 0.3  |
|       |       |      |                                                                 |                                                                | 49.85 | 14.14  | 6.31   | 3.16  | 1.7    | 0.6   | 0.26   | 0.06 |
| 11.67 | 700   | 42   |                                                                 |                                                                |       | 3.21   | 2.31   | 1.74  | 1.35   | 0.88  | 0.62   | 0.35 |
|       |       |      |                                                                 |                                                                |       | 18.81  | 8.4    | 4.2   | 2.27   | 0.8   | 34     | 0.09 |
| 13.33 | 800   | 48   |                                                                 |                                                                |       | 3.67   | 2.64   | 1.99  | 1.54   | 1.01  | 0.71   | 0.4  |
|       |       |      |                                                                 |                                                                |       | 24.08  | 10.75  | 5.38  | 2.9    | 1.03  | 0.44   | 0.11 |
| 15    | 900   | 54   |                                                                 |                                                                |       | 4.13   | 2.97   | 2.23  | 1.73   | 1.13  | 0.8    | 0.45 |
|       |       |      |                                                                 |                                                                |       | 29.94  | 13.37  | 6.69  | 3.61   | 1.28  | 0.54   | 0.14 |
| 16.67 | 1000  | 60   |                                                                 |                                                                |       | 4.59   | 3.3    | 2.48  | 1.93   | 1.26  | 0.88   | 0.5  |
|       |       |      |                                                                 |                                                                |       | 36.39  | 16.24  | 8.13  | 4.39   | 1.55  | 0.66   | 0.16 |
| 20.83 | 1250  | 75   |                                                                 |                                                                |       |        | 4.12   | 3.1   | 2.41   | 1.57  | 1.1    | 0.63 |
|       |       |      |                                                                 |                                                                |       |        | 24.54  | 12.29 | 6.63   | 2.34  | 0.99   | 0.25 |
| 25    | 1500  | 90   |                                                                 |                                                                |       |        | 4.95   | 3.72  | 2.89   | 1.88  | 1.33   | 0.75 |
|       |       |      |                                                                 |                                                                |       |        | 34.39  | 17.22 | 9.29   | 3.28  | 1.39   | 0.35 |
| 29.17 | 1750  | 105  |                                                                 |                                                                |       |        |        | 4.34  | 3.37   | 2.2   | 1.55   | 0.88 |
|       |       |      |                                                                 |                                                                |       |        |        | 22.9  | 12.35  | 4.37  | 1.85   | 0.46 |
| 33.33 | 2000  | 120  |                                                                 |                                                                |       |        |        | 4.96  | 3.85   | 2.5   | 1.77   | 1    |
|       |       |      |                                                                 |                                                                |       |        |        | 29.31 | 15.81  | 5.59  | 2.37   | 0.59 |
| 41.67 | 2500  | 150  |                                                                 |                                                                |       |        |        |       | 4.81   | 3.14  | 2.21   | 1.25 |
|       |       |      |                                                                 |                                                                |       |        |        |       | 23.89  | 8.44  | 3.59   | 0.9  |
| 50    | 3000  | 180  |                                                                 | HAZEN WILLIAMS<br>CALCULATION FORMULA<br>(UNI EN 12845 13.2.1) |       |        |        |       |        | 3.77  | 2.65   | 1.5  |
|       |       |      |                                                                 |                                                                |       |        |        |       |        | 11.83 | 5.02   | 1.26 |
| 66.67 | 4000  | 240  |                                                                 |                                                                |       |        |        |       |        | 5.03  | 3.53   | 2    |
|       |       |      |                                                                 |                                                                |       |        |        |       |        | 20.15 | 8.55   | 2.14 |
| 83.33 | 5000  | 300  |                                                                 |                                                                |       |        |        |       |        |       | 4.42   | 2.5  |
|       |       |      |                                                                 |                                                                |       |        |        |       |        |       | 12.93  | 3.23 |

White cells ( ) : Load losses in m. for every 100m of pipework

Light Blue cells ( ) : Water speed in m/sec

The table refers to galvanised pipework

For other material multiply as follows:

- **0.6** For PVC Pipes
- **0.7** For aluminium Pipes
- **0.8** For Laminated Steel.
- **0.8** For Stainless steel

## 26. CONVERSION TABLE :

| CHARACTERISTIC   | SYSTEM UNIT OF MEASURE      | UNIT OF MEASURE                                  | SYMBOL               | CONVERSIONS                                             |                                                                         |                                           |
|------------------|-----------------------------|--------------------------------------------------|----------------------|---------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------|
|                  |                             |                                                  |                      | SYSTEM                                                  | INTERNATIONAL SYSTEM( S.I)                                              | IMPERIAL SYSTEM                           |
| LENGTH           | Technical and International | meter                                            | m                    |                                                         |                                                                         | 1 m = 3.28 ft                             |
|                  |                             | decimeter                                        | dm                   | 1 dm = 0.1 m                                            |                                                                         | 1 dm = 3.937 in                           |
|                  |                             | centimeter                                       | cm                   | 1 cm = 0.01 m                                           |                                                                         | 1 cm = 0.3937 in                          |
|                  |                             | millimeter                                       | mm                   | 1 mm = 0.001 m                                          |                                                                         |                                           |
|                  | imperial                    | inch                                             | 1" in                | 1" = 25.4 mm                                            |                                                                         |                                           |
|                  |                             | foot                                             | 1" , ft              | 1" ft = 0.3048 m                                        |                                                                         | 1" ft = 12" in                            |
|                  |                             | yard                                             | yd                   | 1 yd = 0.9144 m                                         |                                                                         | 1 yd = 3ft , 1 yd = 26"                   |
| AREA             | Technical and International | meters squared                                   | m <sup>2</sup>       |                                                         |                                                                         | 1 m <sup>2</sup> = 1.196 sq.yd            |
|                  |                             | centimeters squared                              | cm <sup>2</sup>      | 1 cm <sup>2</sup> = 0.0001 m <sup>2</sup>               |                                                                         | 1 m <sup>2</sup> = 10.764 sq.ft           |
|                  |                             | millimeters squared                              | mm <sup>2</sup>      | 1 mm <sup>2</sup> = 0.01 cm <sup>2</sup>                |                                                                         | 1 cm <sup>2</sup> = 0.155 sq.in           |
|                  | imperial                    | square inch                                      | sq.in                | 1 sq.in = 6.45 cm <sup>2</sup>                          |                                                                         | 1 sq.ft = 144 sq.in                       |
|                  |                             | square foot                                      | sq.ft                | 1 sq.ft = 0.0929 m <sup>2</sup>                         |                                                                         | 1 sq.yd = 1.296 sq.in                     |
|                  |                             | square yard                                      | sq.yd                | 1 sq.yd = 0.836 m <sup>2</sup>                          |                                                                         | 1 sq.yd = 9 sq.ft                         |
| VOLUME           | Technical and International | meter cubed                                      | m <sup>3</sup>       | 1 m <sup>3</sup> = 1.000 dm <sup>3</sup>                |                                                                         | 1 dm <sup>3</sup> = 0.22 Imp.gal          |
|                  |                             | decimeter cubed                                  | cm <sup>3</sup>      | 1 cm <sup>3</sup> = 0.001 m = 1.000 cm <sup>3</sup>     |                                                                         | 1 dm <sup>3</sup> = 0.264 US.gal          |
|                  |                             | centimeter cubed                                 | mm <sup>3</sup>      | 1 mm <sup>3</sup> = 0.001 dm <sup>3</sup>               |                                                                         | 1 dm <sup>3</sup> = 61.0 cu.in            |
|                  |                             | litre cubed                                      | l                    | 1 l = dm <sup>3</sup>                                   |                                                                         |                                           |
|                  | imperial                    | cubic inch                                       | cu.in                | 1 cu.in = 16.39 cm <sup>3</sup>                         |                                                                         |                                           |
|                  |                             | cubic feet                                       | cu.ft                | 1 cu.ft = 28.34 m <sup>3</sup>                          |                                                                         |                                           |
|                  |                             | imperial gallons                                 | Imp.gal              | 1 Imp.gal = 4.546 m <sup>3</sup>                        |                                                                         | 1 Imp.gal = 1.201 US.gal                  |
|                  |                             | U.S. gallons                                     | USA.gal              | 1 US.gal = 3.785 dm <sup>3</sup>                        |                                                                         | 1 US.gal = 0.833 Imp.gal                  |
| TEMPERATURE      | Technical and International | degrees Centigrade                               | °C                   | °C = °K - 273                                           |                                                                         | °C = 5/9 x (°F - 32)                      |
|                  | imperial                    | degrees Kelvin                                   | °K                   | °K = °C + 273                                           |                                                                         | °K = 5/9 x (°F - 32) + 273                |
|                  |                             | degrees Fahrenheit                               | °F                   | °F = 9/5 x °C + 32                                      |                                                                         | -                                         |
|                  |                             | freezing point of water at atmospheric pressure: |                      | 000°C = 273°K = 032°F                                   |                                                                         |                                           |
|                  |                             | boiling point of water at atmospheric pressure:  |                      | 100°C = 373°K = 212°F                                   |                                                                         |                                           |
| WEIGHT AND FORCE | Technical                   | Kilogram                                         | kg                   | 1 kg = 1000 g, 1000kg = 1 t                             | 1 kg = 9.81 N                                                           | 1 kg = 2.203 lb                           |
|                  | International               | Newton                                           | N                    | 1 N = 0.102 kg                                          |                                                                         | 1 N = 0.22546 lb                          |
|                  | Imperial                    | pound                                            | lb                   | 1 lb = 0.454 kg                                         | 1 lb = 4.452 N                                                          |                                           |
| SPECIFIC WEIGHT  | Technical                   | kilogram per decimetre cubed                     | kg / dm <sup>3</sup> |                                                         | kg / dm <sup>3</sup> = 9.807 N / dm <sup>3</sup>                        | 1 kg / dm <sup>3</sup> = 62.46 lb / cu.ft |
|                  | International               | Newton per decimetre cubed                       | N / dm <sup>3</sup>  | 1 N / dm <sup>3</sup> = 0.102 kg / dm <sup>3</sup>      |                                                                         | 1 N / dm <sup>3</sup> = 6.36 lb / cu.ft   |
|                  | Imperial                    | pound per cubic foot                             | lb / dm <sup>3</sup> | 1 lb/cu.ft = 0.01600 kg / dm <sup>3</sup>               | 1 lb/cu.ft = 0.160 N / dm <sup>3</sup>                                  |                                           |
| PRESSURE         | Technical                   | atmospheres                                      | kg / cm <sup>2</sup> |                                                         | 1 kg/cm <sup>2</sup> = 98.067 kPa,<br>1 kg/cm <sup>2</sup> = 0.9807 bar | 1 kg/cm <sup>2</sup> = 14.22 ps           |
|                  | International               | Pascal                                           | Pa                   | 1 pascal = 10bar                                        |                                                                         |                                           |
|                  |                             | kiloPascal                                       | kPa                  | 1 kPa = 0.0102 kg/cm <sup>2</sup>                       | 1 kPa = 1.000 Pa                                                        | 1 kPa = 0.145 psi                         |
|                  |                             | bar                                              | bar                  | 1 bar = 1.02 kg/cm <sup>2</sup><br>1 bar = 14.5038 psi. | 1 bar = 100.000 Pa                                                      | 1 bar = 14.50 psi                         |
|                  | imperial                    | pounds per square inch                           | Psi                  | 1 psi = 0.0703 kg/cm <sup>2</sup>                       | 1 psi = 0.06895 bar,<br>1 psi = 6.894 kPa                               |                                           |



## 26. CONVERSION TABLE :

| CHARACTERISTIC    | SYSTEM UNIT OF MEASURE | UNIT OF MEASURE                       | SYMBOL        | CONVERSIONS                                               |                                      |                                                      |
|-------------------|------------------------|---------------------------------------|---------------|-----------------------------------------------------------|--------------------------------------|------------------------------------------------------|
|                   |                        |                                       |               | SYSTEM                                                    | INTERNATIONAL SYSTEM( S.I)           | IMPERIAL SYSTEM                                      |
| FLOW              | Technical              | litres per minute                     | l / min       | 1 l/min = 0.0167 l/s                                      | 1 l/s = 0.001 m³/s                   | 1 l/min = 0.22 imp.g.p.m.                            |
|                   |                        | litres per second                     | l / s         | 1 l/s = 3.6 m³/h                                          |                                      | 1 l/min = 0.264 US.g.p.m.                            |
|                   |                        | metres cubed per hour                 | m³ / h        | 1 m³/h = 16.667 l/min                                     |                                      | 1 m³/h = 3.666 imp.g.p.m.<br>1 m³/h = 4.403 US.g.p.m |
|                   | Imperial               | imperial gallons per minute           | Imp.g.p.m.    | 1 Imp.g.p.m. = 4.546 l/min,<br>1 Imp.g.p.m. = 0.273 m³/h, |                                      | 1 Imp.g.p.m. = 1.201 US.g.p.m.                       |
|                   |                        | U.S. gallons per minute               | US.g.p.m.     | 1 US.g.p.m. = 3.785 l/min,<br>1 US.g.p.m. = 0.227 m³/h    |                                      | 1 US.g.p.m. = 0.833 Imp.g.p.m                        |
|                   |                        |                                       |               |                                                           |                                      |                                                      |
| TORQUE            | Technical              | kilogram metre                        | kgm           |                                                           | 1 kgm = 9.807 Nm                     | 1 kgm = 7.233 ft.lb                                  |
|                   | International          | Newton metre                          | Nm            | 1 Nm = 0.012 kgm                                          |                                      | 1 Nm = 0.7376 ft.lb                                  |
|                   | Imperial               | foot pound                            | ft.lb         | 1 ft.lb = 0.138 kgm                                       | 1 ft.lb = 1.358 Nm                   |                                                      |
| WORK AND ENERGY   | Technical              | kilogram metre vapour-horsepower hour | kgm CVh       |                                                           | 1 kgm = 9.807 J<br>1 CVh = 0.736 kWh | 1 kgm = 7.233 ft.lb<br>1 Nm = 0.986 HP.hr            |
|                   |                        | Joule                                 | J             | 1 J = 0.102 kgm                                           |                                      | 1 Nm = 0.7376 ft.lb                                  |
|                   | International          | kiloWatt hour                         | kWhq          | kWh = 1.36 CVh                                            |                                      | 1 Nm = 0.7376 ft.lb                                  |
|                   |                        | foot pound                            | ft.lb         | 1 ft.lb = 0.138 kgm                                       | 1 ft.lb = 0.358 Nm                   |                                                      |
| POWER             | Imperial               | Horsepower hour                       | HP.hr.        | 1 HP.hr. = 1.014 CVh                                      | 1 HP.hr. = 0.746 kWh                 |                                                      |
|                   | Technical              | Horse power                           | HP            | 1 HP = 0.736 kW                                           | 1 HP = 736 W                         |                                                      |
|                   | International          | Watt<br>kiloWatt                      | W<br>Kw       | 1 W = 0.00136 Hp<br>1 kW = 1.36 Hp                        | 1 kW = 1.000 W                       |                                                      |
| KINETIC VISCOSITY | Technical              | stokes<br>centistokes                 | 1 St<br>1 cSt | 1 St = 1 cm²/s<br>1 cSt = 0.01 St                         | 1 St = 0.0001 m²/s                   | 1 St = 0.00107 ft²/s                                 |
|                   | International          | m² / s                                | m² / s        | 1 m² / s = 10.000 St                                      | 1 m² / s = 10.000 cm² / s            | 1 m² / s = 10.764 ft² / s                            |
|                   | imperial               | square foot per second                | ft² / s       | 1 ft² / s = 929 St                                        | 1 ft² / s = 0.0929 m² / s            |                                                      |

### BASE SI UNITS:

- m = Meter (length)
- kg = Kilogram (mass)
- s = Second (time)
- K = Kelvin (Thermodynamic temp)
- mol = Mole (amount of substance)
- A = Ampere (electric current)
- cd = Candela (luminous intensity)

### DERIVED SI UNITS:

- m² = Square Meter (area)
- m³ = Cubic Meter (volume)
- m/s = Meters per second (velocity)
- m/s² = Meters per second squared (acceleration)
- mol = Mole (amount of substance)
- A = Ampere (electric current)
- cd = Candela (luminous intensity)

### DERIVED SI UNITS:

- N = Newton (force)  
1N = 1 Kg. m/s²
- Pa = Pascal (Pressure)  
1 Pa = 1 N / m²
- J = Joule (energy or work)  
1 J = 1 N.m
- W = Watt (Power)  
1W = 1 J/s
- Hz = Hertz (frequency)  
1 Hz = 1 s⁻¹

### COMMON UNITS EXPRESSED SI UNITS:

- L = Liter (Volume)  
1L = 0.001 m³
- g = Gram (mass)  
1g = 0.001 kg
- °C = Degree celsius  
T(K) = T(°C) + 273.15

