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Calculations Excel

## Centrifugal Compressor Calculations Excel

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## **Compressor Calculation Spreadsheet | LAOBING KAISUO**

2. Usual values for calculations. For air  $k=1.4$ ; Reciprocating compressor high compression rate  $\eta=0.75$ ; Reciprocating compressor low compression rate  $\eta=0.75$ ; Rotary compressors  $\eta=0.7$ ; Centrifugal compressors :  $\eta$  is calculated from the polytropic efficiency given by the manufacturer.

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## **Compressor power calculation - Centrifugal, rotary ...**

Centrifugal Pump Calculation Excel Sheet File Size: 161 Kb. 1. Duty 1: Transfer of Trichloride from storage to Head Tank(Drumming)/Tanker Loading. 2. Duty 2: Transfer of Trichloride from storage to Recycle. 3. Duty 3: Transfer of Trichloride from storage to Drum Filling. 4. Pump VS System Head Curves

## **Engineering-xls: Centrifugal Pump Calculation Excel Sheet**

reciprocating compressor centrifugal compressor ACFM Ap Ar  
Base 459.70 Clearance Comp\_ratio Comp\_ratio Disp Head Head  
Isen\_eff Isen\_eff Kcpcv Kcpcv MMSCFD MMSCFD Mw Mw Pd Pd Ps  
Ps Rho\_suct Rho\_suct T\_degF T\_degF Ts Ts Valve\_lossess VE  
W\_lb\_min W\_lb\_min Zd Zd Zs Zs 3rd Stage Original Input Design  
Mw k,cp/cv Zsuction Psuction, psia Tsuction, °F ...

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## **Oil and Gas Processing**

a) Centrifugal Pumps Centrifugal pumps are dynamic pumps. A centrifugal pump raises the pressure of the liquid by giving it a high kinetic energy and then converts it into pressure energy before the fluid exits the pump. It normally consists of an impeller (a wheel with blades), and some form of housing with a central inlet and a peripheral outlet.

## **Engineering-xls: Pump Size Calculation Excel Spreadsheet**

Centrifugal Compressor Power Calculation using Polytropic head  
By using the equation, we get polytropic head is 79,075.11 ft lbf/lbm. And power requirement is 0.594 hp, which is exactly the same as previous method. Centrifugal Compressor Power Calculation using Process Simulator

## **Centrifugal Compressor Power Calculation**

I am interested in knowing the centrifugal compressor discharge

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temperature calculations for higher pressure ratios ( $P_{out}/P_{in}$ ), around 3 or more. I was using the below formula, but its not useful for high pressure ratios.  $T_{OUTLET} = T_{INLET} * \{ (P_{DISCHARGE}/P_{INLET})^{((n-1)/n)} \}$  Kindly also help me understanding the limitation of above formula.

### **Centrifugal Compressor Polytropic Data Calculation ...**

Operating range of centrifugal compressor compare with other type of compressors. CENTRIFUGAL COMPRESSOR 5 ... and mixed gas. This manual also describes physical properties of mixed gas. In the next equations and calculations, gas is assumed as ideal gas but then corrected by correction factors and so ever is assumed equal to actual physical ...

### **CENTRIFUGAL COMPRESSOR 1 - Design and selection**

Centrifugal Force - When a body of mass rotates about an axis it exerts an outward radial force called centrifugal force upon the

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axis or any arm or cord from the axis that restrains it from moving in a straight (tangential) line. In the following. equations:  
 $F = Wv^2 / gR$   $F = mv^2 / R$

### **Centrifugal Force Equations and Calculator | Engineers ...**

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### **Centrifugal Fan Design Calculations Xls | Sante Blog**

Solution. air=1. psia. oF.  $T_{pc}=169.0+314.0*SGFG$ .  
 $P_{pc}=708.75-57.5*SGFG$ .  $T_{pr}=(T+460.0)/T_{pc}$ .  $t=1/T_{pr}$ .  
 $P_{pr}=p/P_{pc}$ .

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To use CMAP, the starting point is the availability of a map of the performance of the centrifugal compressor, with the composition of the corresponding mixture of gas and thermodynamic conditions (pressure and temperature). ... Having provided this data as input, the software will perform all the complex calculations in a fully automatic way ...

### **IPC-eng | Cmap - Centrifugal Compressor Performance Software**

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## **Centrifugal Pump Curves - CheCalc**

Centrifugal Compressor Power Calculation May 18, 2017. How to Calculate Jockey Pump Capacity in Fire Fighting System August 11, 2012. Sizing of Expansion Tank for Hot Oil System November 4, 2012. Several Natural Gas Dehydration Methods and Range of Application October 14, 2018. Recent Comments.

## **Centrifugal Pump Sizing Spreadsheet**

$32.2 \times 48728 = \text{-----} = 885.7 \text{ fps}$  4 x 0.5. Too close to the 900 fps limit, change to 5 stages.  $32.2 \times 48728 \text{ T. s} = \text{-----} = 784.4 \text{ fps}$  5 x 0.5. Assume using 26A compressor casing: 7.54 x CFM Capacity Factor =  $Q/ND^3 = \text{-----} \text{ T. s x D.}$

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## **Case-19 Centrifugal Gas Compression Calculation**

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## **Compressor Calculation Spreadsheet Excel Reciprocating Xls ...**

Accurate performance measurement of a centrifugal compressor is very dependent upon the quality of the field data. In general, testing should follow the conditions set forth in ASME PTC 10 (1997). Compressor piping should be designed to accommodate flowmeter runs and to meet location requirements for pressure and temperature as well.

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