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Ebook Knock

Out Drum

**Knock Out  
Drum Sizing  
Calculation**

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out drum sizing

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guide  
knock out drum  
sizing  
Calculation  
calculation

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**sizing**

**calculation** what

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*Flare knockout*

*drum sizing*

*theory Flash*

*Drum Sizing*

*Exercise - Flash*

*Distillation*

*Course (Lec 104)*

~~Class Lecture No~~

~~10 - V 102~~

~~(Knock out or~~

~~flash drum)~~

~~sizing Flare~~

~~knock out drum~~

~~sizing - Theory~~

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~~Flare knockout  
drum calculation~~

---

The Mesh aka  
Demister for  
Flash Drums and  
Knockout Drums  
(Lec 076)

---

Difference  
between knock  
out drum and  
flash drum

KNOCKOUT DRUM  
(KO-DRUM)

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EQUIPMENT

MODELLING IN

PDMS CFD — oil  
and gas

~~knockout drum~~

~~analysis~~ Lecture

59: Gas liquid

separation in

natural gas

systems - I

*KNOCKOUT DRUM*

*(KO-DRUM)*

*EQUIPMENT*

*MODELLING IN*



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*PDMS Class*

*Lecture No 5 -  
Process*

*Equipment*

*Selection and*

*Sizing (Pump*

*sizing) EP.01*

~~Design and Size~~

~~your Two Phase~~

~~\u0026 Three~~

~~Phase Separator~~

~~by Sw2~~

~~Distillation~~

~~Column Jazz drum~~

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~~fills using  
accented  
triplets \u0026  
double strokes  
(#1) — JohnX  
Online Drum  
Lessons Pipe  
weight/water  
calculation in  
METRIC Circuit  
Sizing Example  
Oil \u0026 Gas  
101: Follow The  
Pipe on a~~

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Wellsite [How  
Production  
Equipment  
Operates]

**Stretch-out  
length  
calculations** *How  
a Compressor  
Works*

---

Piping Size and  
Pipe Schedule -  
Pipe Design  
-part-12*How to  
Calculate*

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*Minimum Pipe*

*Wall Thickness*

---

Design 1 Some

Basic Heuristics

Vertical

Knockout

Separator

---

What is a Free

Water Knockout

(FWKO)? Aspen

Plus: Flash

Separators CFD -

oil and gas -

knock out drum

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liquid Drum carryover

1 CFD - oil and  
gas - knock out  
drum liquid

carryover 2

~~Flare Knock Out~~

~~Drum/ Pump 72\ "~~

*Flare Knockout*

*Drum 1775-V150*

---

Knock Out Drum

Sizing

Calculation

Sample Problem -

Vertical Knock

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Out Drum Sizing  
Calculations

Step 1. Step 2.

The gas liquid  
separation can  
be modeled using  
Stokes law. ...

The subscripts L  
and G stand for  
liquid phase...

Step 3. A  
tentative H/D  
ratio needs to  
be fixed for the

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vessel. Since  
the diameter of  
vessel (D) and  
TL-TL ...

---

Sample Problem -  
Vertical Knock  
Out Drum Sizing  
Calculations  
Knock Out Drum  
Sizing  
Calculation  
Design a

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Ebook Knock

Out Drum gas-  
liquid separator  
or a Knock Out  
Drum for

separation of  
liquid droplets  
entrained in  
fuel gas flow.

The liquid in  
this case is  
water and the  
fuel gas phase  
can be  
considered to be



# Download Ebook Knock Out Drum Sizing Calculation

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Knock Out Drum  
Sizing  
Calculation -  
bitofnews.com  
The size a vapor-  
liquid separator  
drum (or knock-  
out pot, or  
flash drum, or  
compressor  
suction drum)

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should be dictated by the anticipated flow rate of vapor and liquid from the drum. The following sizing methodology is based on the assumption that those flow rates are known.

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Design of a  
vapor-liquid  
separator drum  
(or knockout pot

...

KO drum 300~600  
micron refer to  
API 521. KO drum  
300~500 micron  
refer to Maurice  
Arnold. Refer to  
Fig 20 API 521.  
 $P_{DESIGN} = 3.5$   
barg for

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vessel/drum  
about  
atmospheric  
pressure.  $T =$   
OPERATING  
TEMPERATURE.

7.9. Refer to  
Hysis. TDESIGN.  
40.0.  $T_{DESIGN} =$   
 $T + 30 \text{ } ^\circ\text{C}.$   
104.0. 3.0. mm.  
0.1. inch.  $S =$   
ALLOWABLE STRESS  
OF CS.  $E =$  JOINT

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EFFICIENCY. 0.9

\*\*\*\* UC = LIQUID

DROP OUT

VELOCITY. 9.480

---

Knock Out KO

Drum Sizing |

Sports - Scribd

My main concern

is how do you

size a knockout

drum for 1)

proper volume to

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collect  
condensates and  
2) proper  
diameter to  
avoid erosion.

Thank you in  
advance for any  
help. RE: Sizing  
a Knockout Drum  
LittleInch  
(Petroleum) 22  
Feb 16 18:36.

... Calculation  
Drag coefficient

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$$C_d = 1.80$$

Dropout velocity

$$u_c = 16.78 \text{ ft/s}$$

## Calculation

---

Sizing a  
Knockout Drum -  
Pipelines,  
Piping and Fluid  
...

The second step  
in sizing a  
knock-out drum  
is to consider

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the effect any liquid contained in the drum may have on reducing the volume available for vapor/liquid disengagement. This liquid may result from (1) condensate that separates during a vapor release or (2) liquid



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Out Drum  
Sizing  
Calculation

streams that  
accompany a  
vapor release.

---

Knockout Drum -  
an overview |  
ScienceDirect  
Topics  
Vapor Liquid  
Vertical  
Separator does  
the Design  
sizing and

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Out Drum  
Sizing  
Calculation

calculation for  
a vertical gas  
liquid separator  
with or without  
Mesh Pad based  
on Souders Brown  
Equation using K  
Values from  
GPSA, Droplet  
Size.

---

Vapor Liquid  
Vertical

*Page 26/44*

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Separator Sizing

A derating

factor of

0.7-0.8 shall

also be used for

compressor

suction knockout

drums. See

paragraph 4.6

for the sizing

of the demister

mat. 4.2.2

Height of a

Vertical Vessel.

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The total vessel height is the sum of the following

contributions:

The height required for the Low Liquid Level (LLL) The level instrument determines the LLL.

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BN-EG-UE109

Guide for Vessel  
Sizing

FLASH DRUM

DESIGN ChE 4253

- Design I

Dimensional

analysis for

drag: Force is

dependent on

velocity, cross

sectional area,

density and

viscosity. Two

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nondimensional numbers:

Therefore  $\hat{C}_D$  is a function of the particle

Reynolds number.

$$\hat{C}_D = f(\text{Re})$$

$$\hat{C}_D = \frac{F_D}{\rho V A} = \frac{F_D}{\rho V d^2 v^2} = f(\text{Re})$$

$$\hat{C}_D = \frac{F_D}{\rho V d^2 v^2} = f(\text{Re})$$

$$\hat{C}_D = \frac{F_D}{\rho V d^2 v^2} = f(\text{Re})$$

$$\hat{C}_D = \frac{F_D}{\rho V d^2 v^2} = f(\text{Re})$$

$$\hat{C}_D = \frac{F_D}{\rho V d^2 v^2} = f(\text{Re})$$

$$\hat{C}_D = \frac{F_D}{\rho V d^2 v^2} = f(\text{Re})$$

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FLASH DRUM

DESIGN -

University of  
Oklahoma

Minimum Drum

Length ( $L_{min}$ ) m<sup>3</sup>

Storage for

Misc. Liquids

Horizontal Flare

Knock Out Drum

Sizing (SI

Units) Standard

Calculation WS-

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PR-CA-012, Rev.  
1, "Re-Issued  
for Use",  
2-Sep-02

Validated:

Verification of  
WS-PR-CA-012,  
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Horizontal Flare  
Knock Out Drum  
Sizing (FPS  
Units)



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Sizing

---

KCHSZ SJF STU

Amine Flash Drum

5 -10 minutes

Glycol Flash

Drum 10 -20

minutes Cold

Separator

(Gas/NGL/EG) 15

-30 minutes

Refrigeration

Accumulator 5

minutes or based

Download  
Ebook Knock  
out system  
requirements  
Refrigeration  
Economizer 3  
minutes Heat  
Medium Surge  
Drum Max liquid  
expansion based  
on 25% - 75%  
full 28 Ref:  
Fig. 7-42 GPSA  
Data Book, 14th  
ed.

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Equipment  
Fundamentals:  
Separation &  
Fractionation  
Flare knockout  
drum ??????????  
????????????????  
??? ??????????  
?????????????  
...

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Out Drum  
Sizing  
Calculation

drum sizing -  
Theory - YouTube  
Quick Calculator  
for Horizontal  
Knock Out Drum  
sizing Based on  
minimum time  
required for  
liquid droplets  
of a given  
minimum size to  
be separated.  
Design Criteria  
for Vapor/Liquid

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Out Drum ;

Detailed  
explanation of  
high performance  
vapor-liquid  
separators  
(scrubbers)

Vapor Liquid  
Separator  
designs and  
manufacturing  
process

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Vapor-liquid  
separator -  
Wikipedia  
Calculation

Knock Out Drum  
Sizing  
Calculation This  
is likewise one  
of the factors  
by obtaining the  
soft documents  
of this knock  
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Knock Out Drum  
Sizing  
Calculation - po  
mpahydrauliczna.  
eu

$k = 0.107$  at a  
gauge pressure  
of 7 bar.

Subtract 0.003  
for every 7 bar  
above a gauge



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pressure of 7 bar. For glycol or amine solutions, multiply above k values by 0.6 - 0.8. Typically use one-half of the above k values for approximate sizing of vertical separators

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Souders-Brown  
equation -  
Wikipedia  
2 phase  
separator design  
calculator -  
vertical Knock  
Out Drum; Air  
Density  
Calculator; Air

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Specific Heat

Calculator; Air

Thermal

Conductivity

Calculator; Air

Viscosity

Calculator;

Compressibility

factors for

gases;

Compressibility

factor

calculator for

natural gas;

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Control Valve  
sizing; Drum /  
Vessel volume  
calculator;  
Equivalent  
Length ...

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