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- Assumptions
- 1) Flow is incompressible
  - 2) Local losses are negligible
  - 3) Friction coefficient is constant
- Write extended Bernoulli eq. between points 1 and 2

$$\frac{P_1}{\rho g} + \frac{V_1^2}{2g} + z_1 = \frac{P_2}{\rho g} + \frac{V_2^2}{2g} + z_2 + h_{f1} + h_{f2} = \frac{P_2}{\rho g} + \frac{V_2^2}{2g} + z_2 + f \frac{L}{D} \frac{V^2}{2g} + f \frac{L}{D} \frac{V^2}{2g}$$

Note:  $z_1 = z_2$ ,  $V_1 = 0$ ,  $P_1 = P_2$ ,  $P_2/\rho g = 0$

$$h_{f1} = f \frac{L_1}{D_1} \frac{V_1^2}{2g}, \quad h_{f2} = f \frac{L_2}{D_2} \frac{V_2^2}{2g}, \quad V_1 = V_2 \left( \frac{D_2}{D_1} \right)^2$$

$$V_1 = V_2 \left( \frac{0.27}{1.0} \right)^2$$

$$V_1 = 0.27 V_2$$

Equation becomes:

$$\frac{P_0}{\rho g} = f_1 \frac{L_1}{D_1} \frac{(0.27 V_2)^2}{2g} + f_2 \frac{L_2}{D_2} \frac{V_2^2}{2g} + \frac{V_2^2}{2g}$$

$$P_0 = \frac{1}{2} \rho g V_2^2 \left[ f_1 \frac{L_1}{D_1} (0.27)^2 + f_2 \frac{L_2}{D_2} + 1 \right]$$

Note:  $f_1 = f_2 = f = 0.02$

Solving for  $V_2$ :

$$V_2 = \sqrt{\frac{P_0}{\frac{1}{2} \rho g \left[ f_1 \frac{L_1}{D_1} (0.27)^2 + f_2 \frac{L_2}{D_2} + 1 \right]}}$$

$$V_2 = \sqrt{\frac{1}{2} \cdot 1000 \cdot \frac{1000}{9.81} \left[ 0.02 \frac{10}{0.05} (0.27)^2 + 0.02 \frac{50}{0.05} + 1 \right]}$$

$$V_2 = 24.78 \text{ m/s}$$

$$Q = V_2 A_2 = 4.078 \text{ m}^3/\text{s}$$

$$Q = 3.22 \times 10^3 \text{ m}^3/\text{s}$$

Liquid pump pipe blocked oxygen not included. Pipe blocked oxygen not included.

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An ventilation connected to any number of pipes but nothing will empty those pipes. (Provide the lyching has some destination) If in the same configuration the 5 kg of water is followed by 8 kg of contaminated water, then the packages cannot be merged. The deposit can be deactivated later to keep the fuel inside. Green output pipes with an arrow pointing down, send water out. Once your plumbing system is established, we can move forward with the common causes of the blocked pipes and how to fix them. The most common cause of pipes blocked in oxygen not included is a loss pipe connection. To do this you step on your source directly to any place to which you want your flow flow to go to. However, if you build a pipe loop and replace a pipe lush with a bridge, the loop can accept the packages and move them around because the three flow criteria are satisfied (output construction, construction input, free pipe). ONI BUG TRACKER - Errors on the network. - An error tracker - Speech! This article has not been reviewed for the current version (U40-494396). Fontanerá ability duplicant can empty tubes of its content in manually transportable containers, in a similar way to Canister Filler or Pump Pump. The operation of pipes directly through consumers such as tiles of the hydroppic farm, suction cups or Exo-Suit springs leads to a strict first-service base and is generally not desirable due to the high internal buffers. The first consumers will live to all successive ones if they cannot fill their internal bosses in form It also makes continuous operating buildings less efficient due to delivery delay. Each tuberde tile can contain a package and each package can consist of only a type of lying. Construction [] Different types of pipe heat (insult/regular/radiant) can one another without losing its content. If an output pipe is full, the others will receive more packages. On the contrary, if there are 3 output pipes, the union will send a package to each sequence output pipe again and again. The flow materials [] are transmitted through pipes using "packages." Make sure the lib pump is submerged in the water. Since the items such as the exit of the toilet are more water from which they receive, the contaminated water should be emptied in a kind of syra tank to avoid blocked pipes. Important because it can end problems such as water pollution, structural damage, floods of the colony and duplicating disease. Surely the pipes linked to the green shots have more than two tiles long, so the water that comes out of a toilet or shower does not cause an accumulation of accumulation and begin a block. White admission tubes with an arrow pointing up, drink water. The input node (white symbol) of a building (bridge, ventilation, hydroppic farm plot) will always have priority if the building can accept a package. If it is not possible, minimize mergers and divisions, and filter the early pollution will mitigate that. If the lh flows in both lines with only complete packages, both lines will flow uninterrupted and the bridge will do nothing. The packages will only flow from a pipe mosaic to another if there are both: an entrance building capable of receiving packages. It is more acceptable with storage deposits that are connected to the same entry and exit pipes. However, the vines can be used to ensure that the downstream pipe has some slack and does not block in a single moment. Execute pipes directly through several outputs leads to the last service and tends to block the outputs in the middle, since the building does not sod sod sanigam is || solpmjeE .aAerebut ed ortlif la selbireferp etnemacitirse nos adartne ed otnup le ne socinjÁcem sortlif sol ,sessaG ed osac le nE .aAerebut al ne elbitapmocni o otelpmoc eteuqap nu yah is ritime .opmeit .opmeit le noc agrac al a osulcni jÁradaya etneilas aAerebut al ne aluvjÁv al ed osu IE .elcub ed sortlif y )opit reiuqlauc ed sotisÁped noc etnemelbireferp) sreffub riurtsnoc arap rasu edeup es n©Aibmat .553653-UL arap zev amitiPÁ rop Ázilautca eS .airadnuces etneuf al jÁrazilitu es on y jÁraeuqolb es etneup le .der al ed sadnamed sal recafsitas adeup airamirp etneuf al sartneiM .rodaguj le arap selbisecca y soenjÁtnatsni .ojabart ed soruges sjÁm serotpurretni omoc rasu nedeup es )ordyH rosneS/OMTAI nÁAicazitamotua noc sodajerapme serreic sol .ragul us nE .roirefni aenÁl al a roirepus aenÁl al ed av euq etneup nu senop arohÁ .agracer ed nÁinu anu rasu edeup .elbisop aes euq erpmeis arto al erbos etneuf anu rasu ereiferp orep .selbinopsid setneuf sod enef y der anu a odiulf nu rartsinimus atisecen IS || agracer ed noitcnuj .sojulf ed osceve led nÁitseg ed olpmje nu se etsE || selitÁ semortaP .otelpmoc rop esrartongi naÁrdop serodimusnoc sonugla y nÁ Aranell es on aAerebut ed sotnemes sonugla edned .elbicoderpmi satur ed adeuqsÁb al a ricudnoc .edeup aenÁl amsim al ne serodimusnoc y setneuf ralczem .etneuf anu ed sjÁm nÁÁrdnet n©Aibmat .odunem a .y onitset nu ed sjÁm a nÁÁricudnoc saAerebut sal ed ároyam al || senoinu sal .eteuqap led etrap sonem la ratpeca edeup euq aAerebut anU .nÁAicahumis anu ed ázelarutian al a odlibed atsilaer ocop y avibo ocop arenam ed esrartropmoe edeup adiuclni on onegÁko ne jodiPÁs o odiuqÁl .sagt aAerebut al .otisÁped la jÁrevolv y .onell aroha .etehoc ed rotom led adartne ed otreup led jÁlla sjÁm asap otisÁped led elbitsubmoc le .olpmje etse nE .laugised arenam ed adilas ed nÁisivid o nÁAcces anu anoisuf sartneim sadartne selpitÁm ralaugi arap O .arapes sal euq ociasom nu noc olelarap ne nav euq saAerebut ed saenÁL

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