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.....	1
.....	5
.....	10
.....	14

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1.

$$\begin{array}{r} \text{_____} \qquad \qquad \qquad \text{_____} \\ \text{_____} \qquad \qquad \qquad \text{_____} \\ \nabla_B = \text{_____} \times 10^{-2} \text{m} \quad \nabla_C = \text{_____} \times 10^{-2} \text{m} \quad \nabla_D = \text{_____} \times 10^{-2} \text{m} \\ \text{_____} \qquad \qquad \qquad z_C = \text{_____} \times 10^{-2} \text{m} \quad z_D = \text{_____} \times 10^{-2} \text{m} \end{array}$$

2.

1      2

1



		$\nabla_0$ / (10 <sup>-2</sup> m)	$\nabla_H$ / (10 <sup>-2</sup> m)						
				$\frac{p_A}{\rho g} = \nabla_H - \nabla_0$ / (10 <sup>-2</sup> m)	$\frac{p_B}{\rho g} = \nabla_H - \nabla_B$ / (10 <sup>-2</sup> m)	$\frac{p_C}{\rho g} = \nabla_H - \nabla_C$ / (10 <sup>-2</sup> m)	$\frac{p_D}{\rho g} = \nabla_H - \nabla_D$ / (10 <sup>-2</sup> m)	$z_c + \frac{p_c}{\rho g}$ / (10 <sup>-2</sup> m)	$z_D + \frac{p_D}{\rho g}$ / (10 <sup>-2</sup> m)
$p_0 = 0$									
$p_0 > 0$									
$p_0 < 0$ ( $p_B < 0$ )									



1

$$\begin{array}{ccc}
 \text{_____} & & \text{_____} \\
 \text{_____} & & \text{_____} \\
 d_1 = \text{_____} \times 10^{-2} \text{m} & d_2 = \text{_____} \times 10^{-2} \text{m} & d_3 = \text{_____} \times 10^{-2} \text{m} \\
 \nabla_0 = \text{_____} \times 10^{-2} \text{m} & & \nabla_z = \text{_____} \times 10^{-2} \text{m}
 \end{array}$$

2

1

	*				*	*	11	12*	14*	16*	18*
								13	15	17	19
$d / 10^{-2} \text{m}$											
$l / 10^{-2} \text{m}$	4	4	6	6	4	13.5	6	10	29.5	16	16



$$2 \quad h_i \quad h_i = z_i + \frac{p_i}{\rho g} \quad 10^{-2} \text{m} \quad i$$

	$h_2$	$h_3$	$h_4$	$h_5$	$h_7$	$h_9$	$h_{10}$	$h_{11}$	$h_{13}$	$h_{15}$	$h_{17}$	$h_{19}$	$q_v$ /(10 <sup>-6</sup> m <sup>3</sup> /s)
1													
2													

3

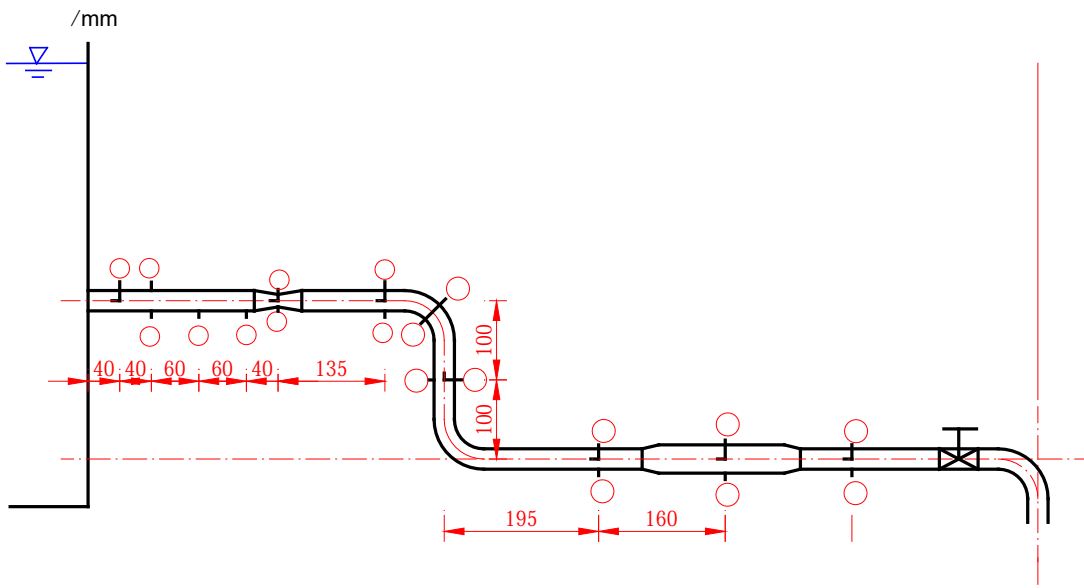
(1)

$d$ /10 <sup>-2</sup> m	$q_{v1} = V_1/t_1 = 201.3$ /(10 <sup>-6</sup> m <sup>3</sup> /s)			$q_{v2} = V_2/t_2 =$ /(10 <sup>-6</sup> m <sup>3</sup> /s)		
	$A$ /10 <sup>-4</sup> m <sup>2</sup>	$v$ /(10 <sup>-2</sup> m/s)	$v^2/2g$ /10 <sup>-2</sup> m	$A$ /10 <sup>-4</sup> m <sup>2</sup>	$v$ /(10 <sup>-2</sup> m/s)	$v^2/2g$ /10 <sup>-2</sup> m

$$(2) \quad H_i \quad H_i = z_i + \frac{p_i}{\rho g} + \frac{\alpha v_i^2}{2g} \quad 10^{-2} \text{m} \quad i$$

	$H_2$	$H_4$	$H_5$	$H_7$	$H_9$	$H_{13}$	$H_{15}$	$H_{17}$	$H_{19}$	$q_v$ /(10 <sup>-6</sup> m <sup>3</sup> /s)
1										
2										

(3)



3

4

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: \_\_\_\_\_

1

$$d = \frac{\text{_____}}{\text{_____}} \times 10^{-2} \text{ m}$$

2

1

$$l = \frac{\text{_____}}{\text{_____}} \times 10^{-2} \text{ m}$$

1

?

2

Δ

	$V$ / $10^{-6}\text{m}^3$	$t$ / $s$	$q_V$ / $(10^{-6}\text{m}^3/s)$	$v$ / $(10^{-2}\text{m/s})$	$T$ / $^{\circ}\text{C}$	$\nu$ / $(10^{-4}\text{m}^2/s)$	$Re$	/ $10^{-2}\text{m}$		$h_f$ / $10^{-2}\text{m}$	$\lambda$	$\lambda = \frac{64}{Re}$ $(Re < 2300)$
								$h_1$	$h_2$			
1												
2												
3												
4												
5												
6	/	/										/
7	/	/										/
8	/	/										/
9	/	/										/
10	/	/										/
11	/	/										/

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: \_\_\_\_\_

: \_\_\_\_\_



1

$$d = \frac{\text{_____}}{\text{_____}} \times 10^{-2} \text{ m} \quad t = \text{_____} \text{ }^\circ\text{C}$$
$$v = \frac{0.01775 \times 10^{-4}}{1 + 0.0337t + 0.000221t^2} \text{ m}^2/\text{s} = \text{_____} \times 10^{-4} \text{ m}^2/\text{s}$$
$$K = \text{_____} \times 10^6 \text{ s}/\text{m}^3$$

2

1

1

2