

DAFTAR SINGKATAN DAN LAMBANG

SINGKATAN LAMBANG	Nama	Pemakaian Pertama kali pada halaman
URS	<i>User Requirement Specification</i>	2
P&ID	<i>Piping and Instrumental Diagram</i>	3
LCV	<i>Liquid Control Valve</i>	10
PCV	<i>Pressure Control Valve</i>	10
TC	<i>Temperature Controller</i>	15
TI	<i>Temperature Indicator</i>	15
PC	<i>Pressure Controller</i>	16
PI	<i>Pressure Indicator</i>	16
FC	<i>Flow Controller</i>	16
FI	<i>Flow Indicator</i>	16
LC	<i>Level Controller</i>	16
ASME	<i>American Society of Mechanical Engineer</i>	18
CCU	<i>Central Control Unit</i>	26
IC	<i>Integrated Circuit (IC)</i>	27
DP	<i>Differential Pressure</i>	29
LDR	<i>Light Dependent Resistor</i>	35
PLC	<i>Programmable Logic Controller</i>	36
CEMA	<i>Conveyor Equipment Manufacturer Association</i>	41
SCADA	<i>Supervisory Control and Data Acquisition</i>	45
MCC	<i>Microcrystalline Cellulose</i>	53
PET	<i>Polyethylene Terephthalate</i>	53
PVC	<i>Polyvinyl Chloride</i>	53
CP	<i>Chocolate Powder</i>	56
SCP	<i>Strawberry Cream Powder</i>	56

V_s	Volume Tangki (m^3)	18
D	Diameter Tangki (m)	18
H_1	Ketinggian Tangki (m)	18
P	Tekanan Hidrostatik (psia)	18
ρ	Massa jenis larutan (kg/m^3)	18
g	gaya gravitasi (m/s^2)	18
L	Tinggi Tangki (m)	18
T	Tebal pelat (<i>shell</i>) tangki (in)	18
S	<i>Allowable stress</i> tangki (psia)	18
E	Efisiensi Sambungan	18
C	<i>Corrosion allowance</i> (in/tahun)	18
Q	Debit keluaran tangki (m/s)	18
H_2	<i>Head</i> total pompa (m)	20
H_a	<i>Head</i> statis total (m)	20
Δh_p	Perbedaan <i>head</i> tekanan (m)	20
h_l	<i>Head</i> kerugian pipa (m)	20
$Vd^2/2g$	<i>Head</i> kecepatan keluar (m)	21
H_f	<i>Head</i> kerugian gesek dalam pipa (m)	21
λ	Koefisien kerugian gesek	21
v	Kecepatan aliran fluida (m/s)	21
f_v	Koefisien kerugian katup	21
Re	Bilangan Reynolds	22
ν	Viskositas kinematik zat cair (m^2/s)	22
μ	Viskositas mutlak zat cair ($kg/m.s$)	22
N_h	Daya Hidrolik Pompa (kW)	24
γ	Berat Spesifik ($kg/liter$)	24
N_p	Daya Poros (Hp)	24
η_p	Nilai efisiensi pompa	24
q	Massa material yang diangkut per meter (kg/m)	40
G	Massa material (kg)	40