

Daftar Singkatan dan Lambang

SINGKATAN	Nama	Pemakaian Pertama kali pada halaman
SCF	Sonja Chocolate Factory	1
URS	<i>User Requirement Specification</i>	3
P&ID	<i>Process and Instrumentation Diagram</i>	3
HACCP	<i>Hazard Analysis Critical Control Point</i>	4
NC	<i>Numerical Control</i>	8
PLC	<i>Programmable Logic Controller</i>	8
FMS	<i>Flexibel Manufacturing System</i>	9
RTDs	<i>Resistive Temperature Devices</i>	11
NO	<i>Normally Open</i>	14
NC	<i>Normally Close</i>	14
AC	<i>Alternating current</i>	16
ADC	<i>Analog to Digital Converter</i>	15
DAC	<i>Digital to Analog Converter</i>	17
I/O	<i>Input/Output Modules</i>	17
PFD	<i>Process Flow Diagram</i>	20
ISA	<i>The International Society of Automation</i>	21
ANSI	<i>American National Standards Institute</i>	22
TT	<i>Temperature Transmitter</i>	27
LT	<i>Level Transmitter</i>	27
FT	<i>Flow Transmitter</i>	27
ZT	<i>Position Transmitter</i>	27
TC	<i>Temperature Controller</i>	27
LC	<i>Level Controller</i>	27

FC	<i>Flow Controller</i>	27
ZC	<i>Position Controller</i>	27
TICA	<i>Temperature Indicator, Controller, and Alarm</i>	27
LICA	<i>Level Indicator, Controller, and Alarm</i>	27
FICA	<i>Flow Indicator, Controller, and Alarm</i>	27
V_R	Kapasitas efektif tangki air bawah (m^3)	28
Q_d	Jumlah Kebutuhan air per hari (m^3 /hari)	28
Q_s	Kapasitas pipa dinas (m^3 /jam)	28
T	Rata-rata pemakaian per hari (jam/hari)	28
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h_a	Head statis total (m)	31
Δh_p	Perbedaan head tekanan yang bekerja pada kedua permukaan air (m)	31
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g	Percepatan gravitasi ($9,8 m/s^2$)	31
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f	Koefisien kerugian gesek	31
L	Panjang pipa (m)	31
D	Diameter dalam pipa (m)	31
v	Kecepatan aliran fluida (m/s)	31
R_e	Bilangan Reynolds (tak berdimensi)	32
ν	Viskositas kinematik zat cair (m^2/s)	32
μ	Viskositas mutlak zat cair (kg/m.s) atau cP	32
ρ	Massa jenis fluida (kg/m^3)	32
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Np	Daya pompa (watt)	34
Q	Kapasitas pompa (m^3/s)	34

H_p	Head pompa (m)	34
η_p	Efisiensi pompa	34
A	Faktor yang bergantung jenis motor	34
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η_k	Efisiensi hubungan poros	34
PLN	Perusahaan Listrik Negara	35
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G	Massa material (kg)	36
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P-IRT	Pangan Industri Rumah Tangga	47
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LOlo	<i>Low Low (alarm controller)</i>	68
Lo	<i>Low (alarm controller)</i>	68
Hi	<i>High (alarm controller)</i>	68
HIHi	<i>High High (alarm controller)</i>	68
SCADA	<i>Supervisory Control and Data Acquisition</i>	71
TK (P&ID)	<i>Tank</i>	83
P (P&ID)	<i>Pump</i>	83
CT (P&ID)	<i>Cooling Tunnel</i>	84
DN	<i>Drawing Number</i>	84
WP	<i>Water Pump</i>	85
CV	<i>Control Valve</i>	89
CTO	<i>Cooling Tower</i>	89
CBT	<i>Cocoa Butter Tank</i>	91
A (P&ID)	<i>Agitator</i>	91
CMT	<i>Cocoa Mass Tank</i>	93
E (P&ID)	<i>Heater</i>	93
ST	<i>Sugar Tank</i>	95

BMM	Mesin <i>BallMill</i>	97
STT	<i>Storage Tank</i>	98
TMM	Mesin <i>Temper</i>	100
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CTN	<i>Conveyor Cooling Tunnel</i>	104
HMI	<i>Human Machine Interface</i>	121