

## DAFTAR PUSTAKA

- [1] Badan Pengawas Obat dan Makanan, “Peraturan BPOM Nomor 34 Tahun 2018 Tentang Pedoman Cara Pembuatan Obat yang Baik.” [Daring]. Tersedia pada: <https://peraturan.bpk.go.id/Download/214329/Peraturan%20BPOM%20Nomor%2034%20Tahun%202018.pdf>
- [2] A. Kumar dan M. Goswami, “Performance comparison of instrument automation pipelines using different programming languages,” *Sci. Rep.*, vol. 13, no. 1, hlm. 18579, Okt 2023, doi: 10.1038/s41598-023-45849-y.
- [3] M. A. S. Prastiyo, I. A. Musthofa, dan Y. Aniroh, “Rancang Bangun Kontrol Valve untuk Miniatur Air Mancur”.
- [4] F. I. Pasaribu dan Z. Zulfikar, “Rancang Bangun Sistem Kontrol Buka Tutup Valve Pada Proses Pemanasan Air Jacket,” *RELE Rekayasa Elektr. Dan Energi J. Tek. Elektro*, vol. 1, no. 1, hlm. 1–9, Jul 2018, doi: 10.30596/rele.v1i1.2255.
- [5] L. R, M. D, A. P. I, R. R, dan R. Kurinjimalar, “Exploring Various Control Systems and Its Application,” *Electr. Autom. Eng.*, vol. 1, no. 1, hlm. 40–46, Mei 2022, doi: 10.46632/eae/1/1/7.
- [6] J. Fernández De Cañete, C. Galindo, dan I. G. Moral, “Introduction to Control Systems,” dalam *System Engineering and Automation*, Berlin, Heidelberg: Springer Berlin Heidelberg, 2011, hlm. 137–165. doi: 10.1007/978-3-642-20230-8\_5.
- [7] C. D. Rielly, “Mixing in food processing,” dalam *Chemical Engineering for the Food Industry*, P. J. Fryer, D. L. Pyle, dan C. D. Rielly, Ed., dalam Food Engineering Series. , Boston, MA: Springer US, 1997, hlm. 383–433. doi: 10.1007/978-1-4615-3864-6\_10.
- [8] P. G.R, S. S. Sahishna, M. P. Subash Chandran, dan G. R. Prasobh, “An Overviewing in Mixing Pharmaceutical,” *Int. J. Pharm. Pharm. Res.*, vol. 23, no. 4, hlm. 1–18, Mar 2022.
- [9] D. A. Seiberling, *Clean-In-Place for Biopharmaceutical Processes*, vol. 173. London: informa healthcare.
- [10] R. Ryther, “Cleaning and Disinfection Technologies (Clean-In-Place, Clean-Out-of-Place)”.
- [11] B. Dhage dan A. Dhage, “Automation of CIP Process in dairy industries using programmable controllers and SCADA,” dalam *2016 International Conference on Automatic Control and Dynamic Optimization Techniques (ICACDOT)*, Pune, India: IEEE, Sep 2016, hlm. 318–323. doi: 10.1109/ICACDOT.2016.7877601.
- [12] “Product Reference Manual Arduino Mega 2560.” Arduino, 2023.
- [13] R. Parab dan Prajapati, “IoT Based Relay Operation,” *Int. J. Eng. Adv. Technol.*, vol. 9, no. 1, hlm. 6515–6520, Okt 2019, doi: 10.35940/ijeat.A1415.109119.

- [14] Y. Tjandi dan S. Kasim, "Electric Control Equipment Based on Arduino Relay," *J. Phys. Conf. Ser.*, vol. 1244, no. 1, hlm. 012028, Jun 2019, doi: 10.1088/1742-6596/1244/1/012028.
- [15] A. K. Jaliel dan M. F. Badr, "Application of Directional Control Solenoid Valves in Pneumatic Position System," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 870, no. 1, hlm. 012044, Jun 2020, doi: 10.1088/1757-899X/870/1/012044.
- [16] X. Zhang, Y. Lu, Y. Li, C. Zhang, dan R. Wang, "Numerical calculation and experimental study on response characteristics of pneumatic solenoid valves," *Meas. Control*, vol. 52, no. 9–10, hlm. 1382–1393, Nov 2019, doi: 10.1177/0020294019866853.
- [17] "Differences Between Single and Double Solenoid Valve." Diakses: 20 Januari 2024. [Daring]. Tersedia pada: <https://www.atosolenoidvalves.com/differences-between-single-and-double-solenoid-valve.html>
- [18] M. Jiménez, E. Kurmyshev, dan C. E. Castañeda, "Experimental Study of Double-Acting Pneumatic Cylinder," *Exp. Tech.*, vol. 44, no. 3, hlm. 355–367, Jun 2020, doi: 10.1007/s40799-020-00359-8.
- [19] I. C. Duşu, T. Axinte, M. F. Duşu, C. Nutu, L. Calancea, dan M. Diaconu, "Study of double acting cylinder with two in and out piston rods," vol. 4, no. 2, 2022.
- [20] C. Fratila dkk., "A Double Acting Pneumatic Cylinder with Cushioning: A New Approach," *Magazine of Hydraulics, Pneumatics, Tribology, Ecology, Sensorics, Mechatronics*, 2023.
- [21] E. Shashi Menon, "Meters and Valves," dalam *Transmission Pipeline Calculations and Simulations Manual*, Elsevier, 2015, hlm. 431–471. doi: 10.1016/B978-1-85617-830-3.00012-2.
- [22] M. J. Brandt, K. M. Johnson, A. J. Elphinston, dan D. D. Ratnayaka, "Valves and Meters," dalam *Twort's Water Supply*, Elsevier, 2017, hlm. 743–775. doi: 10.1016/B978-0-08-100025-0.00018-1.
- [23] J. Carlson, "Spray Coverage Testing," *J. GXP Compliance*, vol. 15, no. 2, hlm. 44–47, 2011.
- [24] "Datasheet Alfa Laval TJ20G Rotary Jet Heads." Alfa Laval.
- [25] A. Suharto, "Fundamental Bahasa Pemrograman Python".
- [26] A. J. Dhruv, R. Patel, dan N. Doshi, "Python: The Most Advanced Programming Language for Computer Science Applications:," dalam *Proceedings of the International Conference on Culture Heritage, Education, Sustainable Tourism, and Innovation Technologies*, Medan, Indonesia: SCITEPRESS - Science and Technology Publications, 2020, hlm. 292–299. doi: 10.5220/0010307902920299.
- [27] D. Ghimire, "Comparative study on Python web frameworks: Flask and Django".
- [28] A. Ma'arif, "Buku Ajar Pemrograman Lanjut Bahasa Pemrograman Python." Universitas Ahmad Dahlan, 2023.
- [29] I. Pérez, A. J. Calderón Godoy, M. Godoy, dan J. González, "Survey about the Utilization of Open Source Arduino for Control and Measurement Systems in Advanced Scenarios. Application to Smart Micro-Grid and Its

Digital Replica;” dalam *Proceedings of the 16th International Conference on Informatics in Control, Automation and Robotics*, Prague, Czech Republic: SCITEPRESS - Science and Technology Publications, 2019, hlm. 214–220. doi: 10.5220/0007830202140220.

- [30] R. Gómez-Chabla, M. Aguirre-Munizaga, T. Samaniego-Cobo, J. Choez, dan N. Vera-Lucio, “A Reference Framework for Empowering the Creation of Projects with Arduino in the Ecuadorian Universities,” dalam *Technologies and Innovation*, vol. 749, R. Valencia-García, K. Lagos-Ortiz, G. Alcaraz-Mármol, J. Del Cioppo, N. Vera-Lucio, dan M. Bucaram-Leverone, Ed., dalam *Communications in Computer and Information Science*, vol. 749. , Cham: Springer International Publishing, 2017, hlm. 239–251. doi: 10.1007/978-3-319-67283-0\_18.

