

## REGULATOR MASOWEGO PRZEPŁYWU

Model GF80

GF80

- Zakresy przepływu do 55 l / min
- Czas reakcji <1 sek
- Można zaprogramować za pomocą kilku krzywych gazowych i zakresów przepływu
- Temperatura do 50 ° C



### OPIS PRODUKTU

GF80 jest masowym regulatorem przepływu. Może być stosowany w większości procesów przemysłowych, jak również w przemyśle półprzewodników. Produkt może być używany zarówno jako regulator jak i przepływomierz, a także zapewniają wysoką jakość za korzystną cenę. Podobnie jak seria GF100, GF80 może być ustawiony na różne gazy i zakresy przepływu, dzięki czemu podczas produkcji produkt można szybko i łatwo zmienić bez usuwania go z linii produkcyjnej.

### SPECYFIKACJA TECHNICZNA

|                                          |                                                                                   |
|------------------------------------------|-----------------------------------------------------------------------------------|
| Ciśnienie rozrywające                    | 275 bar                                                                           |
| Czas odpowiedzi                          | < 1 s                                                                             |
| Dane                                     | RS485 (HART), DeviceNet, Profibus, EtherCat                                       |
| Dopuszczenia                             | CE, EN61010-1, EN61326: 2006 (FCC Part 15 & Canada IC-subset of CE testing), RoHS |
| Materiał części stykających się z medium | Hastelloy, Stal nierdzewna 17-7 PH, Stal nierdzewna 316, Stal nierdzewna 430      |
| Materiał uszczelnienia                   | Stal nierdzewna 316                                                               |
| Max. ciśnienie robocze                   | 10 bar                                                                            |
| Max. różnica ciśnień                     | 3 bar                                                                             |
| Max. temperatura medium                  | 50 °C                                                                             |
| Max. zakresu ciśnienia                   | 10 bar                                                                            |
| Max. zakresu przepływu                   | 0,003-50 l/min N2                                                                 |
| Min. temperatura medium                  | 5 °C                                                                              |

|                              |                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------|
| Port diagnostyczny/serwisowy | RS485 (2,5mm plug)                                                                  |
| Przeciek zewnętrzny          | 1x10-10 atm. ml/s He                                                                |
| Różnica ciśnień              | 3-860 mln/min = 0,5-3 bar, 861-7200 mln/min = 1-3bar, 7201-55000 mln/min = 1,7-3bar |
| Typ zaworu                   | NC/NO                                                                               |
| Wykończenie powierzchni      | 1,3 µm Ra                                                                           |
| Zakres kontroli              | 2-100 %                                                                             |
| Zakres temperatur do         | 50 °C                                                                               |
| Zakres temperatur od         | 5 °C                                                                                |

| File Name/Path                | Task Name                  | Order | Description     | Start Date | End Date   | Duration | Progress | Status    | Notes |
|-------------------------------|----------------------------|-------|-----------------|------------|------------|----------|----------|-----------|-------|
| 01 - Task 1: Initial Setup    | Task 1.1: Initial Setup    | 1     | Initial Setup   | 2023-01-01 | 2023-01-05 | 5        | 100%     | Completed |       |
| 02 - Task 2: Data Collection  | Task 2.1: Data Collection  | 2     | Data Collection | 2023-01-06 | 2023-01-10 | 5        | 100%     | Completed |       |
| 03 - Task 3: Analysis         | Task 3.1: Analysis         | 3     | Analysis        | 2023-01-11 | 2023-01-15 | 5        | 100%     | Completed |       |
| 04 - Task 4: Reporting        | Task 4.1: Reporting        | 4     | Reporting       | 2023-01-16 | 2023-01-20 | 5        | 100%     | Completed |       |
| 05 - Task 5: Final Review     | Task 5.1: Final Review     | 5     | Final Review    | 2023-01-21 | 2023-01-25 | 5        | 100%     | Completed |       |
| 06 - Task 6: Deployment       | Task 6.1: Deployment       | 6     | Deployment      | 2023-01-26 | 2023-01-30 | 5        | 100%     | Completed |       |
| 07 - Task 7: Monitoring       | Task 7.1: Monitoring       | 7     | Monitoring      | 2023-01-31 | 2023-02-05 | 6        | 100%     | Completed |       |
| 08 - Task 8: Maintenance      | Task 8.1: Maintenance      | 8     | Maintenance     | 2023-02-06 | 2023-02-10 | 5        | 100%     | Completed |       |
| 09 - Task 9: Documentation    | Task 9.1: Documentation    | 9     | Documentation   | 2023-02-11 | 2023-02-15 | 5        | 100%     | Completed |       |
| 10 - Task 10: Handover        | Task 10.1: Handover        | 10    | Handover        | 2023-02-16 | 2023-02-20 | 5        | 100%     | Completed |       |
| 11 - Task 11: Evaluation      | Task 11.1: Evaluation      | 11    | Evaluation      | 2023-02-21 | 2023-02-25 | 5        | 100%     | Completed |       |
| 12 - Task 12: Feedback        | Task 12.1: Feedback        | 12    | Feedback        | 2023-02-26 | 2023-03-01 | 6        | 100%     | Completed |       |
| 13 - Task 13: Archiving       | Task 13.1: Archiving       | 13    | Archiving       | 2023-03-02 | 2023-03-05 | 4        | 100%     | Completed |       |
| 14 - Task 14: Cleanup         | Task 14.1: Cleanup         | 14    | Cleanup         | 2023-03-06 | 2023-03-10 | 5        | 100%     | Completed |       |
| 15 - Task 15: Final Report    | Task 15.1: Final Report    | 15    | Final Report    | 2023-03-11 | 2023-03-15 | 5        | 100%     | Completed |       |
| 16 - Task 16: Project Closure | Task 16.1: Project Closure | 16    | Project Closure | 2023-03-16 | 2023-03-20 | 5        | 100%     | Completed |       |
| 17 - Task 17: Post-Mortem     | Task 17.1: Post-Mortem     | 17    | Post-Mortem     | 2023-03-21 | 2023-03-25 | 5        | 100%     | Completed |       |
| 18 - Task 18: Lessons Learned | Task 18.1: Lessons Learned | 18    | Lessons Learned | 2023-03-26 | 2023-03-30 | 5        | 100%     | Completed |       |
| 19 - Task 19: Archiving       | Task 19.1: Archiving       | 19    | Archiving       | 2023-03-31 | 2023-04-05 | 6        | 100%     | Completed |       |
| 20 - Task 20: Final Review    | Task 20.1: Final Review    | 20    | Final Review    | 2023-04-06 | 2023-04-10 | 5        | 100%     | Completed |       |
| 21 - Task 21: Project Closure | Task 21.1: Project Closure | 21    | Project Closure | 2023-04-11 | 2023-04-15 | 5        | 100%     | Completed |       |
| 22 - Task 22: Post-Mortem     | Task 22.1: Post-Mortem     | 22    | Post-Mortem     | 2023-04-16 | 2023-04-20 | 5        | 100%     | Completed |       |
| 23 - Task 23: Lessons Learned | Task 23.1: Lessons Learned | 23    | Lessons Learned | 2023-04-21 | 2023-04-25 | 5        | 100%     | Completed |       |
| 24 - Task 24: Archiving       | Task 24.1: Archiving       | 24    | Archiving       | 2023-04-26 | 2023-05-01 | 6        | 100%     | Completed |       |
| 25 - Task 25: Final Review    | Task 25.1: Final Review    | 25    | Final Review    | 2023-05-02 | 2023-05-06 | 5        | 100%     | Completed |       |
| 26 - Task 26: Project Closure | Task 26.1: Project Closure | 26    | Project Closure | 2023-05-07 | 2023-05-11 | 5        | 100%     | Completed |       |
| 27 - Task 27: Post-Mortem     | Task 27.1: Post-Mortem     | 27    | Post-Mortem     | 2023-05-12 | 2023-05-16 | 5        | 100%     | Completed |       |
| 28 - Task 28: Lessons Learned | Task 28.1: Lessons Learned | 28    | Lessons Learned | 2023-05-17 | 2023-05-21 | 5        | 100%     | Completed |       |
| 29 - Task 29: Archiving       | Task 29.1: Archiving       | 29    | Archiving       | 2023-05-22 | 2023-05-26 | 5        | 100%     | Completed |       |
| 30 - Task 30: Final Review    | Task 30.1: Final Review    | 30    | Final Review    | 2023-05-27 | 2023-05-31 | 5        | 100%     | Completed |       |
| 31 - Task 31: Project Closure | Task 31.1: Project Closure | 31    | Project Closure | 2023-06-01 | 2023-06-05 | 5        | 100%     | Completed |       |
| 32 - Task 32: Post-Mortem     | Task 32.1: Post-Mortem     | 32    | Post-Mortem     | 2023-06-06 | 2023-06-10 | 5        | 100%     | Completed |       |
| 33 - Task 33: Lessons Learned | Task 33.1: Lessons Learned | 33    | Lessons Learned | 2023-06-11 | 2023-06-15 | 5        | 100%     | Completed |       |
| 34 - Task 34: Archiving       | Task 34.1: Archiving       | 34    | Archiving       | 2023-06-16 | 2023-06-20 | 5        | 100%     | Completed |       |
| 35 - Task 35: Final Review    | Task 35.1: Final Review    | 35    | Final Review    | 2023-06-21 | 2023-06-25 | 5        | 100%     | Completed |       |
| 36 - Task 36: Project Closure | Task 36.1: Project Closure | 36    | Project Closure | 2023-06-26 | 2023-06-30 | 5        | 100%     | Completed |       |
| 37 - Task 37: Post-Mortem     | Task 37.1: Post-Mortem     | 37    | Post-Mortem     | 2023-07-01 | 2023-07-05 | 5        | 100%     | Completed |       |
| 38 - Task 38: Lessons Learned | Task 38.1: Lessons Learned | 38    | Lessons Learned | 2023-07-06 | 2023-07-10 | 5        | 100%     | Completed |       |
| 39 - Task 39: Archiving       | Task 39.1: Archiving       | 39    | Archiving       | 2023-07-11 | 2023-07-15 | 5        | 100%     | Completed |       |
| 40 - Task 40: Final Review    | Task 40.1: Final Review    | 40    | Final Review    | 2023-07-16 | 2023-07-20 | 5        | 100%     | Completed |       |
| 41 - Task 41: Project Closure | Task 41.1: Project Closure | 41    | Project Closure | 2023-07-21 | 2023-07-25 | 5        | 100%     | Completed |       |
| 42 - Task 42: Post-Mortem     | Task 42.1: Post-Mortem     | 42    | Post-Mortem     | 2023-07-26 | 2023-07-30 | 5        | 100%     | Completed |       |
| 43 - Task 43: Lessons Learned | Task 43.1: Lessons Learned | 43    | Lessons Learned | 2023-07-31 | 2023-08-04 | 5        | 100%     | Completed |       |
| 44 - Task 44: Archiving       | Task 44.1: Archiving       | 44    | Archiving       | 2023-08-05 | 2023-08-09 | 5        | 100%     | Completed |       |
| 45 - Task 45: Final Review    | Task 45.1: Final Review    | 45    | Final Review    | 2023-08-10 | 2023-08-14 | 5        | 100%     | Completed |       |
| 46 - Task 46: Project Closure | Task 46.1: Project Closure | 46    | Project Closure | 2023-08-15 | 2023-08-19 | 5        | 100%     | Completed |       |
| 47 - Task 47: Post-Mortem     | Task 47.1: Post-Mortem     | 47    | Post-Mortem     | 2023-08-20 | 2023-08-24 | 5        | 100%     | Completed |       |
| 48 - Task 48: Lessons Learned | Task 48.1: Lessons Learned | 48    | Lessons Learned | 2023-08-25 | 2023-08-29 | 5        | 100%     | Completed |       |
| 49 - Task 49: Archiving       | Task 49.1: Archiving       | 49    | Archiving       | 2023-08-30 | 2023-09-03 | 5        | 100%     | Completed |       |
| 50 - Task 50: Final Review    | Task 50.1: Final Review    | 50    | Final Review    | 2023-09-04 | 2023-09-08 | 5        | 100%     | Completed |       |
| 51 - Task 51: Project Closure | Task 51.1: Project Closure | 51    | Project Closure | 2023-09-09 | 2023-09-13 | 5        | 100%     | Completed |       |
| 52 - Task 52: Post-Mortem     | Task 52.1: Post-Mortem     | 52    | Post-Mortem     | 2023-09-14 | 2023-09-18 | 5        | 100%     | Completed |       |
| 53 - Task 53: Lessons Learned | Task 53.1: Lessons Learned | 53    | Lessons Learned | 2023-09-19 | 2023-09-23 | 5        | 100%     | Completed |       |
| 54 - Task 54: Archiving       | Task 54.1: Archiving       | 54    | Archiving       | 2023-09-24 | 2023-09-28 | 5        | 100%     | Completed |       |
| 55 - Task 55: Final Review    | Task 55.1: Final Review    | 55    | Final Review    | 2023-09-29 | 2023-10-03 | 5        | 100%     | Completed |       |
| 56 - Task 56: Project Closure | Task 56.1: Project Closure | 56    | Project Closure | 2023-10-04 | 2023-10-08 | 5        | 100%     | Completed |       |
| 57 - Task 57: Post-Mortem     | Task 57.1: Post-Mortem     | 57    | Post-Mortem     | 2023-10-09 | 2023-10-13 | 5        | 100%     | Completed |       |
| 58 - Task 58: Lessons Learned | Task 58.1: Lessons Learned | 58    | Lessons Learned | 2023-10-14 | 2023-10-18 | 5        | 100%     | Completed |       |
| 59 - Task 59: Archiving       | Task 59.1: Archiving       | 59    | Archiving       | 2023-10-19 | 2023-10-23 | 5        | 100%     | Completed |       |
| 60 - Task 60: Final Review    | Task 60.1: Final Review    | 60    | Final Review    | 2023-10-24 | 2023-10-28 | 5        | 100%     | Completed |       |
| 61 - Task 61: Project Closure | Task 61.1: Project Closure | 61    | Project Closure | 2023-10-29 | 2023-11-02 | 5        | 100%     | Completed |       |
| 62 - Task 62: Post-Mortem     | Task 62.1: Post-Mortem     | 62    | Post-Mortem     | 2023-11-03 | 2023-11-07 | 5        | 100%     | Completed |       |
| 63 - Task 63: Lessons Learned | Task 63.1: Lessons Learned | 63    | Lessons Learned | 2023-11-08 | 2023-11-12 | 5        | 100%     | Completed |       |
| 64 - Task 64: Archiving       | Task 64.1: Archiving       | 64    | Archiving       | 2023-11-13 | 2023-11-17 | 5        | 100%     | Completed |       |
| 65 - Task 65: Final Review    | Task 65.1: Final Review    | 65    | Final Review    | 2023-11-18 | 2023-11-22 | 5        | 100%     | Completed |       |
| 66 - Task 66: Project Closure | Task 66.1: Project Closure | 66    | Project Closure | 2023-11-23 | 2023-11-27 | 5        | 100%     | Completed |       |
| 67 - Task 67: Post-Mortem     | Task 67.1: Post-Mortem     | 67    | Post-Mortem     | 2023-11-28 | 2023-12-02 | 5        | 100%     | Completed |       |
| 68 - Task 68: Lessons Learned | Task 68.1: Lessons Learned | 68    | Lessons Learned | 2023-12-03 | 2023-12-07 | 5        | 100%     | Completed |       |
| 69 - Task 69: Archiving       | Task 69.1: Archiving       | 69    | Archiving       | 2023-12-08 | 2023-12-12 | 5        | 100%     | Completed |       |
| 70 - Task 70: Final Review    | Task 70.1: Final Review    | 70    | Final Review    | 2023-12-13 | 2023-12-17 | 5        | 100%     | Completed |       |
| 71 - Task 71: Project Closure | Task 71.1: Project Closure | 71    | Project Closure | 2023-12-18 | 2023-12-22 | 5        | 100%     | Completed |       |
| 72 - Task 72: Post-Mortem     | Task 72.1: Post-Mortem     | 72    | Post-Mortem     | 2023-12-23 | 2023-12-27 | 5        | 100%     | Completed |       |
| 73 - Task 73: Lessons Learned | Task 73.1: Lessons Learned | 73    | Lessons Learned | 2023-12-28 | 2023-12-31 | 4        | 100%     | Completed |       |
| 74 - Task 74: Archiving       | Task 74.1: Archiving       | 74    | Archiving       | 2024-01-01 | 2024-01-05 | 5        | 100%     | Completed |       |
| 75 - Task 75: Final Review    | Task 75.1: Final Review    | 75    | Final Review    | 2024-01-06 | 2024-01-10 | 5        | 100%     | Completed |       |
| 76 - Task 76: Project Closure | Task 76.1: Project Closure | 76    | Project Closure | 2024-01-11 | 2024-01-15 | 5        | 100%     | Completed |       |
| 77 - Task 77: Post-Mortem     | Task 77.1: Post-Mortem     | 77    | Post-Mortem     | 2024-01-16 | 2024-01-20 | 5        | 100%     | Completed |       |
| 78 - Task 78: Lessons Learned | Task 78.1: Lessons Learned | 78    | Lessons Learned | 2024-01-21 | 2024-01-25 | 5        | 100%     | Completed |       |
| 79 - Task 79: Archiving       | Task 79.1: Archiving       | 79    | Archiving       | 2024-01-26 | 2024-01-30 | 5        | 100%     | Completed |       |
| 80 - Task 80: Final Review    | Task 80.1: Final Review    | 80    | Final Review    | 2024-01-31 | 2024-02-04 | 5        | 100%     | Completed |       |
| 81 - Task 81: Project Closure | Task 81.1: Project Closure | 81    | Project Closure | 2024-02-05 | 2024-02-09 | 5        | 100%     | Completed |       |
| 82 - Task 82: Post-Mortem     | Task 82.1: Post-Mortem     | 82    | Post-Mortem     | 2024-02-10 | 2024-02-14 | 5        | 100%     | Completed |       |
| 83 - Task 83: Lessons Learned | Task 83.1: Lessons Learned | 83    | Lessons Learned | 2024-02-15 | 2024-02-19 | 5        | 100%     | Completed |       |
| 84 - Task 84: Archiving       | Task 84.1: Archiving       | 84    | Archiving       | 2024-02-20 | 2024-02-24 | 5        | 100%     | Completed |       |
| 85 - Task 85: Final Review    | Task 85.1: Final Review    | 85    | Final Review    | 2024-02-25 | 2024-02-29 | 5        | 100%     | Completed |       |
| 86 - Task 86: Project Closure | Task 86.1: Project Closure | 86    | Project Closure | 2024-03-01 | 2024-03-05 | 5        | 100%     | Completed |       |
| 87 - Task 87: Post-Mortem     | Task 87.1: Post-Mortem     | 87    | Post-Mortem     | 2024-03-06 | 2024-03-10 | 5        | 100%     | Completed |       |
| 88 - Task 88: Lessons Learned | Task 88.1: Lessons Learned | 88    | Lessons Learned | 2024-03-11 | 2024-03-15 | 5        | 100%     | Completed |       |
| 89 - Task 89: Archiving       | Task 89.1: Archiving       | 89    | Archiving       | 2024-03-16 | 2024-03-20 | 5        | 100%     | Completed |       |
| 90 - Task 90: Final Review    | Task 90.1: Final Review    | 90    | Final Review    | 2024-03-21 | 2024-03-25 | 5        | 100%     | Completed |       |
| 91 - Task 91: Project Closure | Task 91.1: Project Closure | 91    | Project Closure | 2024-03-26 | 2024-03-30 | 5        | 100%     | Completed |       |
| 92 - Task 92: Post-Mortem     | Task 92.1: Post-Mortem     | 92    | Post-Mortem     | 2024-03-31 | 2024-04-04 | 5        | 100%     | Completed |       |
| 93 - Task 93: Lessons Learned | Task 93.1: Lessons Learned | 93    | Lessons Learned | 2024-04-05 | 2024-04-09 | 5        | 100%     | Completed |       |
| 94 - Task 94: Archiving       | Task 94.1: Archiving       | 94    | Archiving       | 2024-04-10 | 2024-04-14 | 5        | 100%     | Completed |       |
| 95 - Task 95: Final Review    | Task 95.1: Final Review    | 95    | Final Review    | 2024-04-15 | 2024-04-19 | 5        | 100%     | Completed |       |
| 96 - Task 96: Project Closure | Task 96.1: Project Closure | 96    | Project Closure | 2024-04-20 | 2024-04-24 | 5        | 100%     | Completed |       |
| 97 - Task 97: Post-Mortem     | Task 97.1: Post-Mortem     | 97    | Post-Mortem     | 2024-04-25 | 2024-04-29 | 5        | 100%     | Completed |       |
| 98 - Task 98: Lessons Learned | Task 98.1: Lessons Learned | 98    | Lessons Learned | 2024-04-30 | 2024-05-04 | 5        | 100%     | Completed |       |
| 99 - Task 99: Archiving       | Task 99.1: Archiving       | 99    | Archiving       | 2024-05-05 | 2024-05-09 | 5        | 100%     | Completed |       |
| 100 - Task 100: Final Review  | Task 100.1: Final Review   | 100   | Final Review    | 2024-05-10 | 2024-05-14 | 5        | 100%     | Completed |       |

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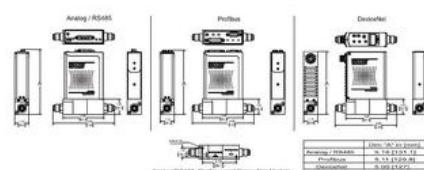
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| 1     | Start                             |
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| 3     | Calculate the sum of all elements |
| 4     | Calculate the average             |
| 5     | Print the average                 |
| 6     | Stop                              |

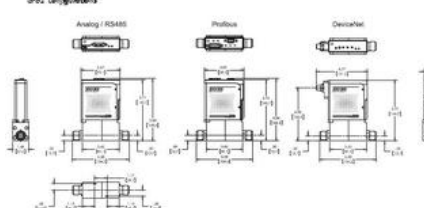
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| 1     | Start                             |
| 2     | Read input data                   |
| 3     | Calculate the sum of all elements |
| 4     | Calculate the average             |
| 5     | Print the average                 |
| 6     | Stop                              |

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OS/2 Configurations



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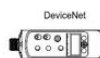
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| 65   | 66   | 67   | 68   |
| 69   | 70   | 71   | 72   |
| 73   | 74   | 75   | 76   |
| 77   | 78   | 79   | 80   |
| 81   | 82   | 83   | 84   |
| 85   | 86   | 87   | 88   |
| 89   | 90   | 91   | 92   |
| 93   | 94   | 95   | 96   |
| 97   | 98   | 99   | 100  |



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| 1   | Step 1:       |
| 2   | SELECT * FROM |
| 3   | TABLE         |
| 4   | WHERE         |
| 5   | TABLE         |
| 6   | ORDER BY      |
| 7   | TABLE         |
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| 100 | TABLE         |



|   |                 |
|---|-----------------|
| 1 | Signature       |
| 2 | Print           |
| 3 | 301.211.225.200 |
| 4 | 10/10/2010      |
| 5 | 10/10/2010      |

