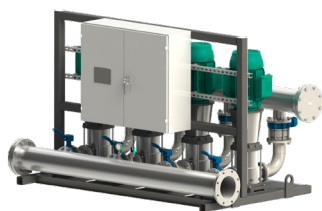


# Submittal Data Sheet

## Wilo-CO MVI – NSF 61/372 Pressure Boosting System

**wilo**®

### CO4 MVI-100



Project:

Engineer:

Contractor:

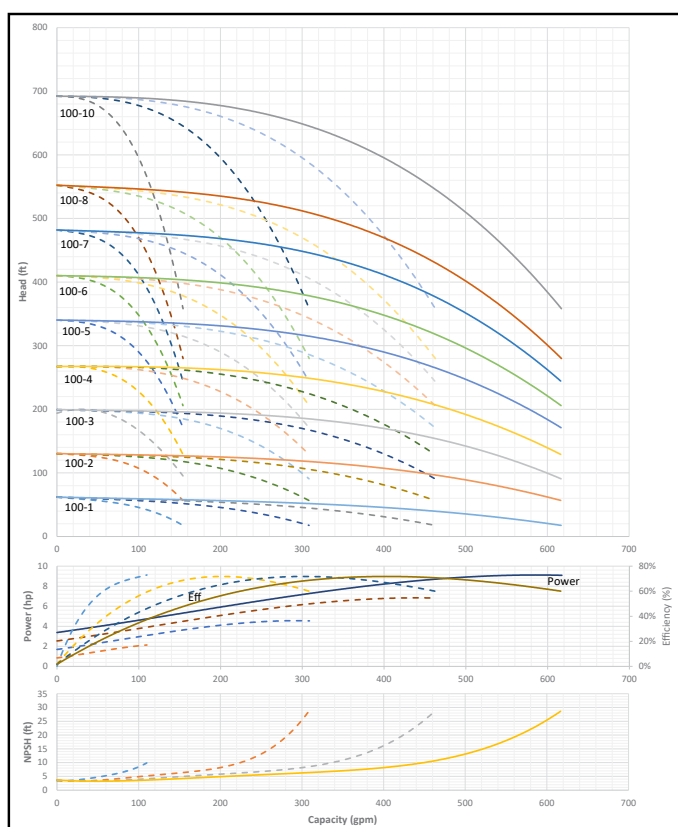
Submitted By:

Date:

Approved By:

Date:

| Tag # | Model #     | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM  |
|-------|-------------|------|-----------|----------------|---------|-------|---------|------|
|       | CO4 MVI-100 |      |           |                | 1       |       |         | 3600 |



#### Applications

- Water Supply
- Pressure Boosting
- Agriculture
- Cooling Circuits
- Washing / Sprinkling Systems
- Condensate Return

#### Materials of Construction

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Volute                    | AISI 304 Stainless Steel with Cast Iron ANSI flanges                                              |
| Impeller                  | AISI 304 Stainless Steel                                                                          |
| Shaft                     | ANSI 431 Stainless Steel                                                                          |
| Elastomers                | EPDM                                                                                              |
| Manifold                  | AISI 304 Stainless Steel                                                                          |
| Suction Isolation Valves  | 150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components                             |
| Discharge Isolation Valve | 150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components or 300# 304SS Ball Valve    |
| Check Valve               | Wafer Style, 316 Stainless Steel internals, non-slam, plunger type with EPDM seal/ cast iron body |
| Mechanical Seal           | Frame and Springs 304SS                                                                           |
| Pressure Transducers      | ¼" MNPT, 316 Stainless Steel                                                                      |
| Pressure Gauges           | ¼" MNPT, 304 Stainless Steel Housing with 316 Stainless Steel wetted parts                        |
| System Base               | Epoxy Coated A-500 Steel Tubing and A36 C-Channel/Plates                                          |

#### Technical Data – Operational Ranges

|                    |                                              |
|--------------------|----------------------------------------------|
| Liquid Temp Range  | 5°F to 248°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F                             |

#### Technical Data – Panel

|                           |                                                                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage                   | 208-230/460~3 or 575~3                                                                                                                               |
| Enclosure                 | NEMA 3R up to 20 HP<br>NEMA 12 for 25 HP and above<br>(NEMA 4 and 4X available upon request)                                                         |
| Standard                  | Meets UL 508A                                                                                                                                        |
| Variable Frequency Drives | Danfoss FC-101:<br>• 1 HP to 3 HP 208-230V~1 IN / 208-230V~3 OUT<br>• 1 HP to 60 HP 208-230V~3<br>• 1 HP to 100 HP 460V~3<br>• 1 HP to 100 HP 575V~3 |

#### Technical Data – PLC

|                           |                                                                      |
|---------------------------|----------------------------------------------------------------------|
| User Interface            | 7" Diagonal Color LCD Touchscreen                                    |
| Display Resolution        | 800 x 480 Pixels                                                     |
| Supply Voltage            | 24VDC                                                                |
| Max. Current Consumption  | 320mA@24V                                                            |
| Number of Analog Inputs   | 4                                                                    |
| Number of Analog Outputs  | 4                                                                    |
| Number of Digital Inputs  | 18                                                                   |
| Number of Digital Outputs | 17                                                                   |
| Onboard Communications    | Modbus Protocol (Optional Gateways for BACnet, LonWorks, and CANbus) |
| Ethernet Port             | RJ45 port capable of transmitting data 10/100Mbps                    |
| Additional Ports          | 2.0 USB Port; Micro-SD Port                                          |

#### Motor Data

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Power Supply           | 208-230, 460, 575~3                             |
| Motor Enclosure        | Totally Enclosed Fan Cooled (TEFC)              |
| Motor Efficiency       | Nema Premium Efficiency – Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron                        |
| Motor Protection Index | IP54                                            |
| Insulation Class       | F                                               |

Approval Stamp

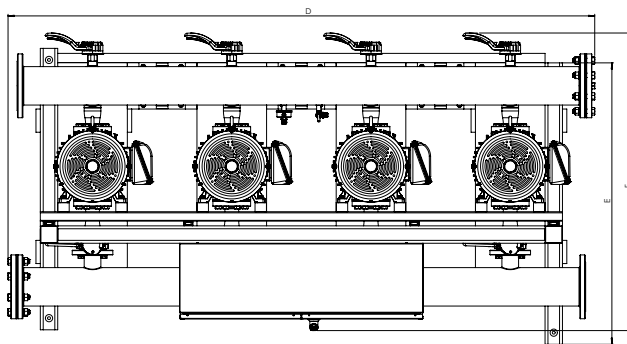
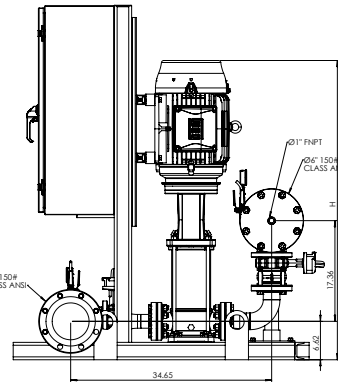
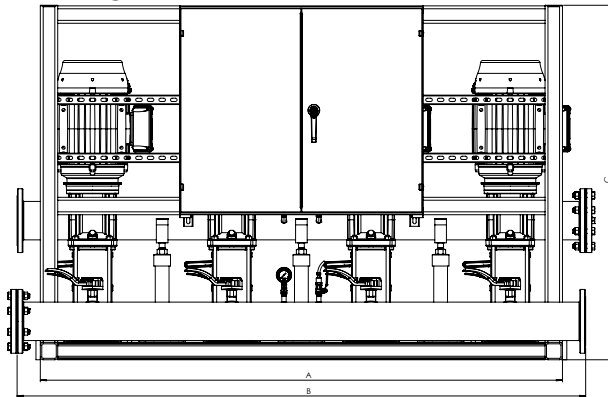
# Submittal Data Sheet

## Wilo-CO MVI - NSF 61/372 Pressure Boosting System



### CO4 MVI-100

#### 150# Discharge



Special Note: All weights and dimensions are approximate and should not be used as exact rough-in dimensions

### CO4 MVI-100

#### TEFC Motor Data (Per Motor)

| Dimensions - Inches (in) |         |     |           |                |                              |               |        |        |        |        |        |        |        |                        | Motor FLA<br>(per pump) | System<br>FLA |
|--------------------------|---------|-----|-----------|----------------|------------------------------|---------------|--------|--------|--------|--------|--------|--------|--------|------------------------|-------------------------|---------------|
| Model                    | Article | HP  | Voltage   | Phase          | System Header<br>Size (ANSI) | Pmax<br>(PSI) | A (in) | B (in) | C (in) | D (in) | E (in) | F (in) | H (in) | System<br>Weight (Lbs) | (A)                     |               |
| CO4 MVI-100-1            | 3353157 | 3   | 208V-230V | ~1 IN / ~3 OUT | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 33.64  | 1885.33                | 8.12-7.34               | 61.8          |
| CO4 MVI-100-1            | 3353566 | 3   | 208V-230V | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 33.64  | 1782.96                | 8.12-7.34               | 39.4          |
| CO4 MVI-100-2            | 3353567 | 5   | 208V-230V | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 35.23  | 1847.76                | 13.1-11.8               | 61.8          |
| CO4 MVI-100-3            | 3353568 | 7.5 | 208V-230V | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 39.24  | 2398.15                | 19.2-17.3               | 85-73         |
| CO4 MVI-100-4            | 3353569 | 10  | 208V-230V | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 42.57  | 2518.15                | 25.4-23                 | 114.2-97      |
| CO4 MVI-100-5            | 3353570 | 15  | 208V-230V | ~3             | 6" 150#                      | 232           | 90     | 98     | 61.1   | 101.13 | 48.51  | 51.24  | 49.73  | 3304.16                | 38.5-34.8               | 165-153.8     |
| CO4 MVI-100-6            | 3353571 | 15  | 208V-230V | ~3             | 6" 150#                      | 232           | 90     | 98     | 61.1   | 101.13 | 48.51  | 51.24  | 51.5   | 3316.16                | 38.5-34.8               | 165-153.8     |
| CO4 MVI-100-7            | 3353572 | 20  | 208V-230V | ~3             | 6" 150#                      | 232           | 90     | 98     | 87.1   | 101.13 | 48.51  | 55.23  | 53.28  | 3176.76                | 50.2-45.4               | 211.8         |
| CO4 MVI-100-1            | 3354055 | 3   | 460V      | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 33.64  | 1782.96                | 3.67                    | 20.2          |
| CO4 MVI-100-2            | 3354056 | 5   | 460V      | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 35.23  | 1847.76                | 5.9                     | 33.8          |
| CO4 MVI-100-3            | 3354057 | 7.5 | 460V      | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 39.24  | 2096.32                | 8.67                    | 45            |
| CO4 MVI-100-4            | 3354058 | 10  | 460V      | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 42.57  | 2216.32                | 11.5                    | 57            |
| CO4 MVI-100-5            | 3354059 | 15  | 460V      | ~3             | 6" 150#                      | 232           | 90     | 98     | 61.1   | 101.13 | 48.51  | 51.24  | 49.73  | 3304.16                | 17.4                    | 74.6          |
| CO4 MVI-100-6            | 3354060 | 15  | 460V      | ~3             | 6" 150#                      | 232           | 90     | 98     | 61.1   | 101.13 | 48.51  | 51.24  | 51.5   | 3316.16                | 17.4                    | 74.6          |
| CO4 MVI-100-7            | 3354061 | 20  | 460V      | ~3             | 6" 150#                      | 232           | 90     | 98     | 61.1   | 101.13 | 48.51  | 51.24  | 53.28  | 3360.16                | 22.7                    | 99.8          |
| CO4 MVI-100-1            | 3354544 | 3   | 575V      | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 33.64  | 1787                   | 2.9                     | 15            |
| CO4 MVI-100-2            | 3354545 | 5   | 575V      | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 35.23  | 1851.4                 | 4.72                    | 32.4          |
| CO4 MVI-100-3            | 3354546 | 7.5 | 575V      | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 39.24  | 2107.56                | 6.94                    | 34.2          |
| CO4 MVI-100-4            | 3354547 | 10  | 575V      | ~3             | 6" 150#                      | 232           | 65.25  | 73.25  | 61.1   | 76.38  | 48.51  | 51.11  | 42.57  | 2235.56                | 9.2                     | 46.6          |
| CO4 MVI-100-5            | 3354548 | 15  | 575V      | ~3             | 6" 150#                      | 232           | 90     | 98     | 69.1   | 101.13 | 48.51  | 51.24  | 49.73  | 2860.69                | 13.8                    | 63.8          |
| CO4 MVI-100-6            | 3354549 | 15  | 575V      | ~3             | 6" 150#                      | 232           | 90     | 98     | 69.1   | 101.13 | 48.51  | 51.24  | 51.5   | 2872.69                | 13.8                    | 63.8          |
| CO4 MVI-100-7            | 3354550 | 20  | 575V      | ~3             | 6" 150#                      | 232           | 90     | 98     | 69.1   | 101.13 | 48.51  | 51.24  | 53.28  | 2916.69                | 18.2                    | 86.6          |

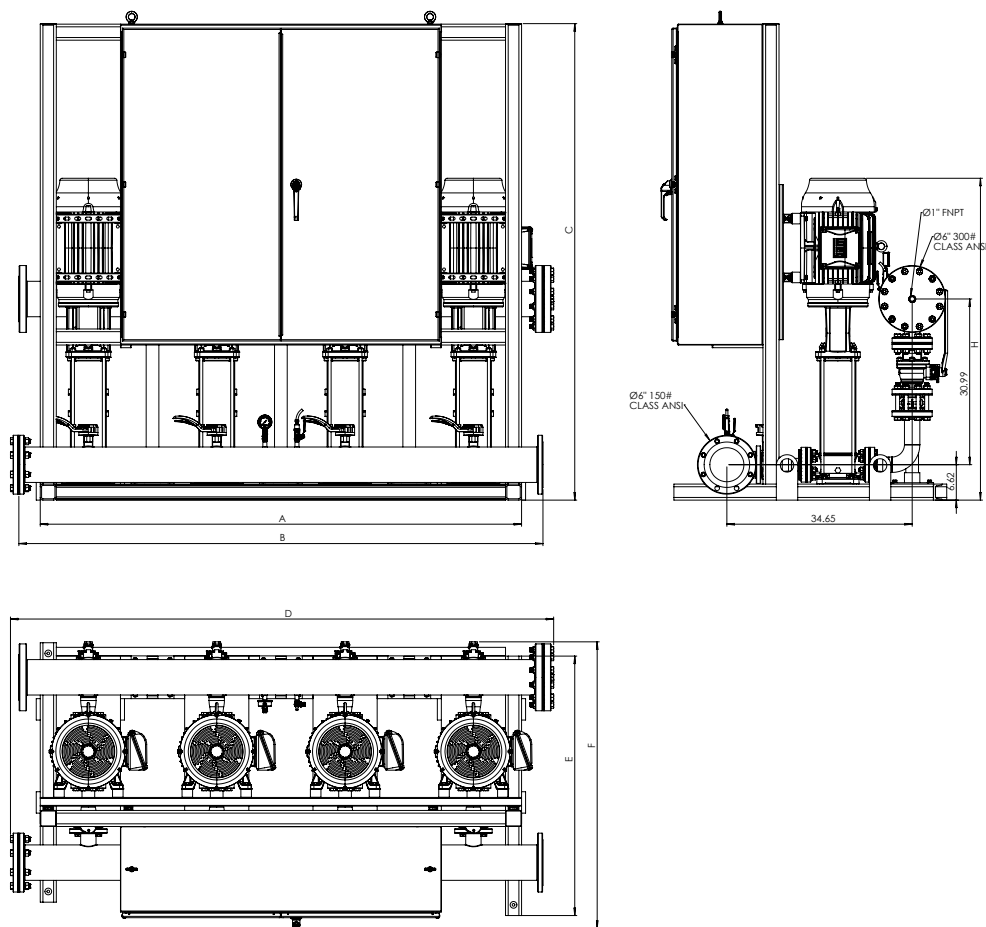
# Submittal Data Sheet

## Wilo-CO MVI - NSF 61/372 Pressure Boosting System



### CO4 MVI-100

#### 300# Discharge



Special Note: All weights and dimensions are approximate and should not be used as exact rough-in dimensions

### CO4 MVI-100

| CO4 MVI-100              |         |    |           |       |                              |               |           |           |        |           |           |           |           |                        | TEFC Motor Data<br>(Per Motor) |               |
|--------------------------|---------|----|-----------|-------|------------------------------|---------------|-----------|-----------|--------|-----------|-----------|-----------|-----------|------------------------|--------------------------------|---------------|
| Dimensions - Inches (In) |         |    |           |       |                              |               |           |           |        |           |           |           |           |                        | Motor FLA<br>(per pump)        | System<br>FLA |
| Model                    | Article | HP | Voltage   | Phase | System Header<br>Size (ANSI) | Pmax<br>(PSI) | A<br>(in) | B<br>(in) | C (in) | D<br>(in) | E<br>(in) | F<br>(in) | H<br>(in) | System<br>Weight (Lbs) | (A)                            |               |
| CO4 MVI-100-8            | 3353573 | 20 | 208V-230V | ~3    | 6" 300#                      | 363           | 90        | 98        | 87.1   | 101.57    | 48.51     | 52.8      | 55.05     | 3394.33                | 50.2-45.4                      | 211.8         |
| CO4 MVI-100-10           | 3353574 | 25 | 208V-230V | ~3    | 6" 300#                      | 363           | 90        | 98        | 89.1   | 101.57    | 48.51     | 53.56     | 60.1      | 3706.86                | 63.0-57.6                      | 261           |
| CO4 MVI-100-8            | 3354062 | 20 | 460V      | ~3    | 6" 300#                      | 363           | 90        | 98        | 61.1   | 101.57    | 48.51     | 48.81     | 55.05     | 3579.44                | 22.7                           | 99.8          |
| CO4 MVI-100-10           | 3354063 | 25 | 460V      | ~3    | 6" 300#                      | 363           | 90        | 98        | 61.1   | 101.57    | 48.51     | 49.57     | 60.1      | 3885.74                | 28.8                           | 118.2         |
| CO4 MVI-100-8            | 3354551 | 20 | 575V      | ~3    | 6" 300#                      | 363           | 90        | 98        | 65.1   | 101.57    | 48.51     | 48.82     | 55.05     | 3128.43                | 18.2                           | 86.6          |
| CO4 MVI-100-10           | 3354552 | 25 | 575V      | ~3    | 6" 300#                      | 363           | 90        | 98        | 89.1   | 101.57    | 48.51     | 53.56     | 60.1      | 3678.86                | 23                             | 103.8         |