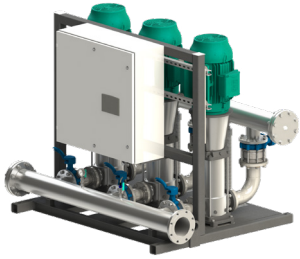


# Submittal Data Sheet

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

wilo®

### CO3 MVI-1SB-600



Project:

Engineer:

Contractor:

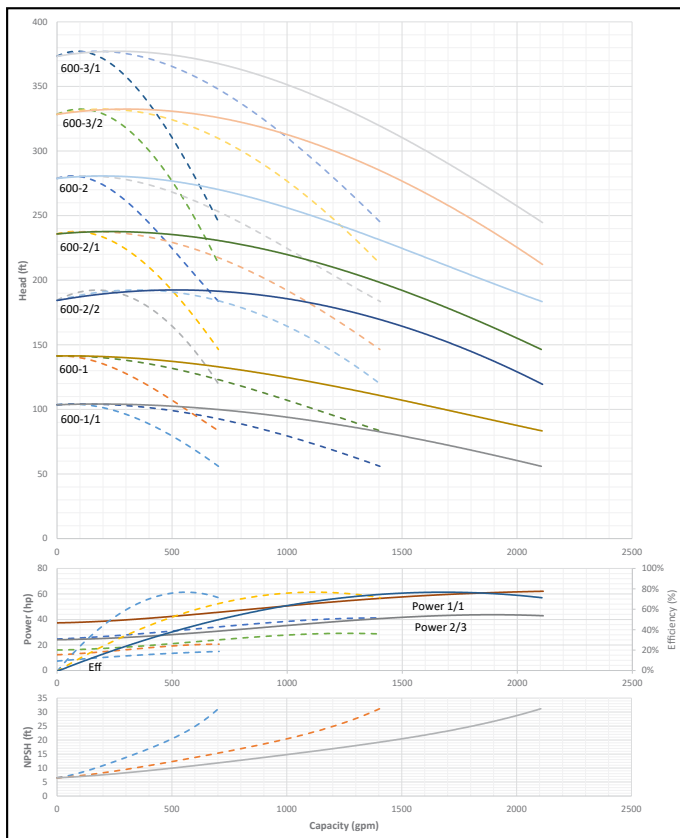
Submitted By:

Date:

Approved By:

Date:

| Tag # | Model #         | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM  |
|-------|-----------------|------|-----------|----------------|---------|-------|---------|------|
|       | CO3 MVI-1SB-600 |      |           |                | 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

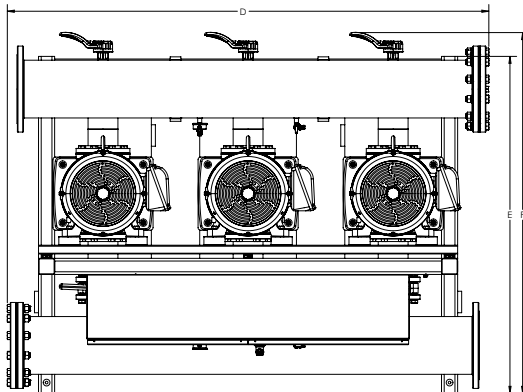
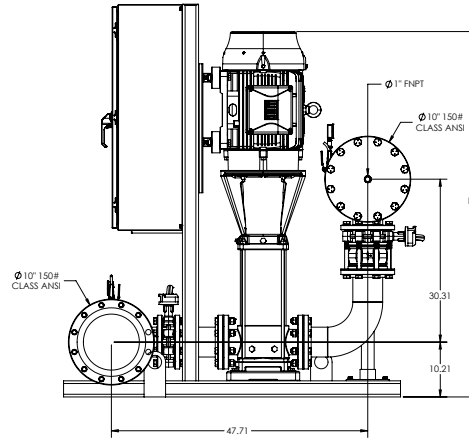
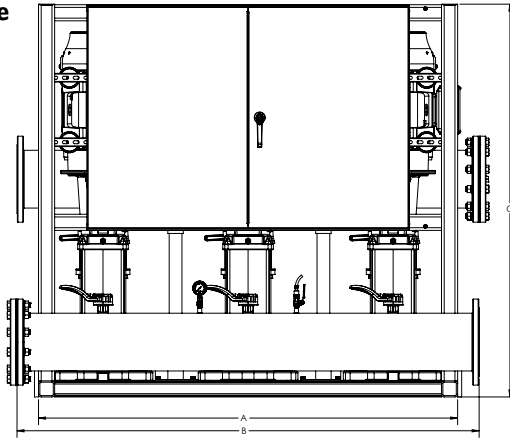
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Special Note: All weights and dimensions are approximate and should not be used as exact rough-in dimensions

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| 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 Weight<br>(Lbs) |                         |               |
| CO3 MVI-1SB-600-1/1      | 3354954 | 20 | 208V-230V | ~3    | 8" 150#                      | 232           | 72        | 80        | 69.1   | 83.37     | 61        | 65.93     | 56.87     | 3178.13                | 50.2-45.4               | 159.1         |
| CO3 MVI-1SB-600-1        | 3354955 | 25 | 208V-230V | ~3    | 8" 150#                      | 232           | 72        | 80        | 69.1   | 83.37     | 61        | 65.93     | 59.13     | 3413.18                | 63.0-57.6               | 196           |
| CO3 MVI-1SB-600-2/2      | 3354956 | 40 | 208V-230V | ~3    | 8" 150#                      | 232           | 78        | 86        | 91.1   | 89.37     | 61        | 65.93     | 67.8      | 4107.37                | 101-92.6                | 312.1         |
| CO3 MVI-1SB-600-2/1      | 3354957 | 40 | 208V-230V | ~3    | 8" 150#                      | 232           | 78        | 86        | 91.1   | 89.37     | 61        | 65.93     | 67.8      | 4107.37                | 101-92.6                | 312.1         |
| CO3 MVI-1SB-600-1/1      | 3355244 | 20 | 460V      | ~3    | 8" 150#                      | 232           | 72        | 80        | 61.1   | 83.37     | 61        | 65.93     | 56.87     | 3149.65                | 22.7                    | 75.1          |
| CO3 MVI-1SB-600-1        | 3355245 | 25 | 460V      | ~3    | 8" 150#                      | 232           | 72        | 80        | 65.1   | 83.37     | 61        | 65.93     | 59.13     | 3661.69                | 28.8                    | 88.9          |
| CO3 MVI-1SB-600-2/2      | 3355246 | 40 | 460V      | ~3    | 8" 150#                      | 232           | 78        | 86        | 75.1   | 89.37     | 61        | 65.93     | 67.8      | 4033.07                | 46.3                    | 148.6         |
| CO3 MVI-1SB-600-2/1      | 3355247 | 40 | 460V      | ~3    | 8" 150#                      | 232           | 78        | 86        | 75.1   | 89.37     | 61        | 65.93     | 67.8      | 4033.07                | 46.3                    | 148.6         |
| CO3 MVI-1SB-600-2        | 3355248 | 50 | 460V      | ~3    | 8" 150#                      | 232           | 78        | 86        | 75.1   | 89.37     | 61        | 65.93     | 67.8      | 4192.04                | 56.1                    | 182.8         |
| CO3 MVI-1SB-600-3/2      | 3355249 | 60 | 460V      | ~3    | 8" 150#                      | 232           | 90        | 98        | 71.1   | 101.37    | 61        | 65.93     | 76.66     | 5137.49                | 67                      | 218.5         |
| CO3 MVI-1SB-600-3/1      | 3355250 | 60 | 460V      | ~3    | 8" 150#                      | 232           | 90        | 98        | 71.1   | 101.37    | 61        | 65.93     | 77.13     | 5138                   | 67                      | 218.5         |
| CO3 MVI-1SB-600-1/1      | 3355534 | 20 | 575V      | ~3    | 8" 150#                      | 232           | 72        | 80        | 69.1   | 83.37     | 61        | 65.93     | 56.87     | 3325.48                | 18.2                    | 65.2          |
| CO3 MVI-1SB-600-1        | 3355535 | 25 | 575V      | ~3    | 8" 150#                      | 232           | 72        | 80        | 69.1   | 83.37     | 61        | 65.93     | 59.13     | 3392.18                | 23                      | 78.1          |
| CO3 MVI-1SB-600-2/2      | 3355536 | 40 | 575V      | ~3    | 8" 150#                      | 232           | 78        | 86        | 75.1   | 89.37     | 61        | 65.93     | 67.8      | 4045.07                | 37                      | 129.7         |
| CO3 MVI-1SB-600-2/1      | 3355537 | 40 | 575V      | ~3    | 8" 150#                      | 232           | 78        | 86        | 75.1   | 89.37     | 61        | 65.93     | 67.8      | 4045.07                | 37                      | 129.7         |
| CO3 MVI-1SB-600-2        | 3355538 | 50 | 575V      | ~3    | 8" 150#                      | 232           | 78        | 86        | 103.1  | 89.37     | 61        | 65.93     | 67.8      | 4229.85                | 44.9                    | 157           |
| CO3 MVI-1SB-600-3/2      | 3355539 | 60 | 575V      | ~3    | 8" 150#                      | 232           | 90        | 98        | 103.1  | 101.37    | 61        | 65.93     | 76.66     | 5229.04                | 53.6                    | 190.9         |
| CO3 MVI-1SB-600-3/1      | 3355540 | 60 | 575V      | ~3    | 8" 150#                      | 232           | 90        | 98        | 103.1  | 101.37    | 61        | 65.93     | 76.66     | 5223.97                | 53.6                    | 190.9         |