

# Submittal Data Sheet

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

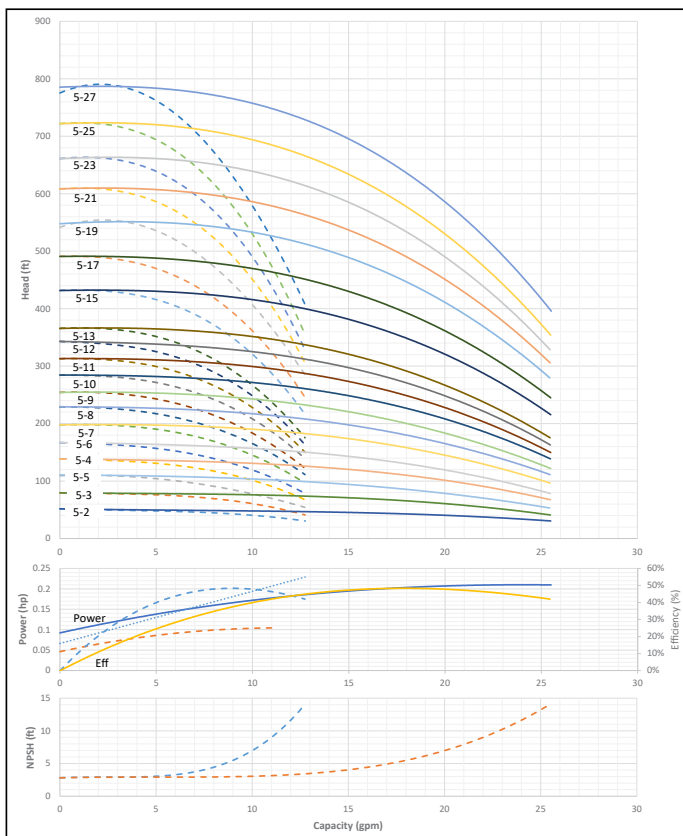


### CO2 MVI-5



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-5				1			3600



#### Applications

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

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

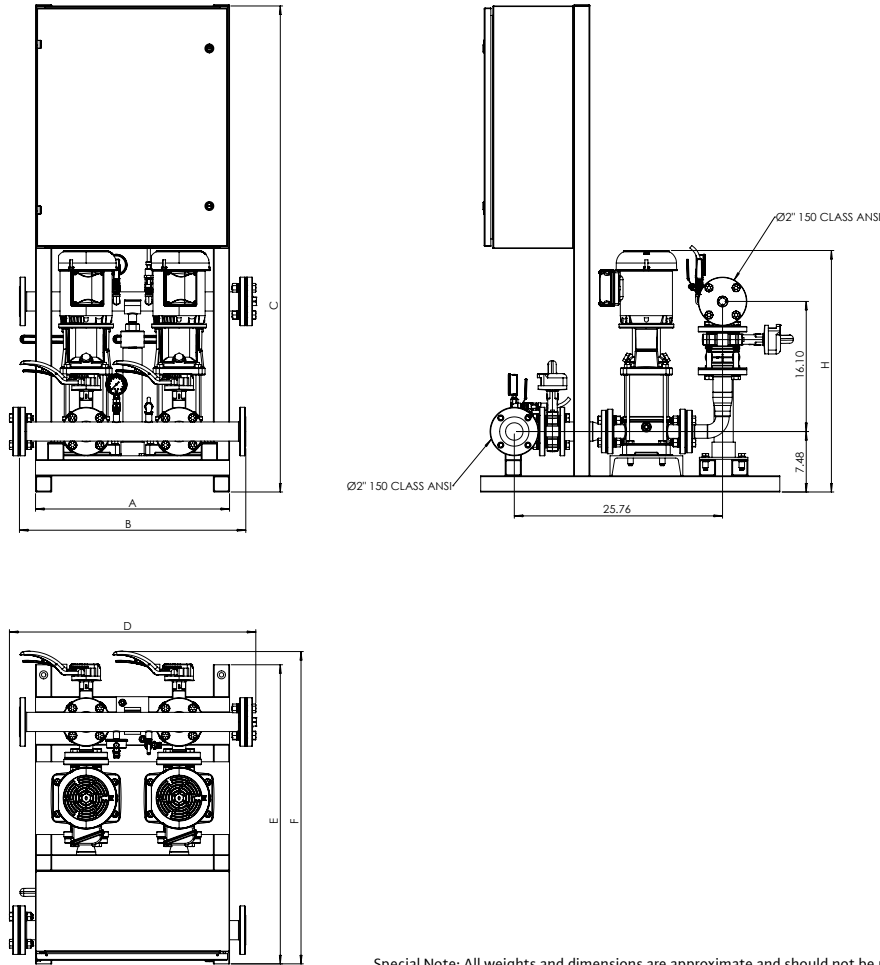
# Submittal Data Sheet

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



### CO2 MVI-5

#### 150# Discharge



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

### CO2 MVI-5

TEFC Motor Data  
(Per Motor)

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (In)								System Weight (Lbs)	Motor FLA (per pump)	
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	(A)		System FLA	
CO2 MVI-5-2	3353000	0.33	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	450.93	1.33-1.2	6.6	
CO2 MVI-5-3	3353001	0.33	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	450.93	1.33-1.2	6.6	
CO2 MVI-5-4	3353002	0.5	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	26.77	456.53	1.86-1.69	6.6	
CO2 MVI-5-5	3353003	0.5	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	27.47	456.53	1.86-1.69	6.6	
CO2 MVI-5-6	3353004	0.75	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	28.18	460.53	2.5-2.26	12.2	
CO2 MVI-5-7	3353005	0.75	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	28.85	462.53	2.5-2.26	12.2	
CO2 MVI-5-8	3353006	1	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	29.16	465.53	3.32-3	12.2	
CO2 MVI-5-9	3353007	1	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	29.87	465.53	3.32-3	12.2	
CO2 MVI-5-10	3353008	1	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	30.58	467.53	3.32-3	12.2	
CO2 MVI-5-11	3353009	1.5	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	33.26	493.93	4.13-3.74	31.4	
CO2 MVI-5-12	3353010	1.5	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	33.97	495.93	4.13-3.74	31.4	
CO2 MVI-5-13	3353011	1.5	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	34.67	497.93	4.13-3.74	31.4	
CO2 MVI-5-15	3353012	2	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	36.92	511.93	5.46-4.94	31.4	
CO2 MVI-5-17	3353013	2	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	38.34	515.93	5.46-4.94	31.4	
CO2 MVI-5-2	3353159	0.33	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	448.73	1.33-1.2	6.6	
CO2 MVI-5-3	3353160	0.33	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	448.73	1.33-1.2	6.6	

# Submittal Data Sheet

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



CO2 MVI-5 150# Discharge															TEFC Motor Data (Per Motor)		
Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	Motor FLA (per pump)	System FLA
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	(A)			
CO2 MVI-5-4	3353161	0.5	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.77	454.33	1.86-1.69	6.6	
CO2 MVI-5-5	3353162	0.5	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	27.47	454.33	1.86-1.69	6.6	
CO2 MVI-5-6	3353163	0.75	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	28.18	458.33	2.5-2.26	6.6	
CO2 MVI-5-7	3353164	0.75	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	28.85	460.33	2.5-2.26	6.6	
CO2 MVI-5-8	3353165	1	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	29.16	463.33	3.32-3	6.6	
CO2 MVI-5-9	3353166	1	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	29.87	463.33	3.32-3	6.6	
CO2 MVI-5-10	3353167	1	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	30.58	465.33	3.32-3	6.6	
CO2 MVI-5-11	3353168	1.5	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.26	493.93	4.13-3.74	14.6	
CO2 MVI-5-12	3353169	1.5	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.97	495.93	4.13-3.74	14.6	
CO2 MVI-5-13	3353170	1.5	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	34.67	497.93	4.13-3.74	14.6	
CO2 MVI-5-15	3353171	2	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	36.92	511.93	5.46-4.94	14.6	
CO2 MVI-5-17	3353172	2	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	38.34	515.93	5.46-4.94	14.6	
CO2 MVI-5-2	3353648	0.33	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	448.73	0.602	4.6	
CO2 MVI-5-3	3353649	0.33	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	448.73	0.602	4.6	
CO2 MVI-5-4	3353650	0.5	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.77	454.33	0.843	4.6	
CO2 MVI-5-5	3353651	0.5	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	27.47	454.33	0.843	4.6	
CO2 MVI-5-6	3353652	0.75	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	28.18	458.33	1.13	4.6	
CO2 MVI-5-7	3353653	0.75	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	28.85	460.33	1.13	4.6	
CO2 MVI-5-8	3353654	1	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	29.16	463.33	1.5	4.6	
CO2 MVI-5-9	3353655	1	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	29.87	463.33	1.5	4.6	
CO2 MVI-5-10	3353656	1	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	30.58	465.33	1.5	4.6	
CO2 MVI-5-11	3353657	1.5	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.26	493.93	1.87	7.8	
CO2 MVI-5-12	3353658	1.5	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.97	495.93	1.87	7.8	
CO2 MVI-5-13	3353659	1.5	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	34.67	497.93	1.87	7.8	
CO2 MVI-5-15	3353660	2	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	36.92	511.93	2.47	7.8	
CO2 MVI-5-17	3353661	2	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	38.34	515.93	2.47	7.8	
CO2 MVI-5-2	3354137	0.33	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	473.13	0.482	8	
CO2 MVI-5-3	3354138	0.33	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	473.13	0.482	8	
CO2 MVI-5-4	3354139	0.5	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.77	440.13	0.674	8	
CO2 MVI-5-5	3354140	0.5	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	27.52	440.13	0.674	8	
CO2 MVI-5-6	3354141	0.75	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	28.18	482.73	0.904	8	
CO2 MVI-5-7	3354142	0.75	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	28.89	484.73	0.904	8	
CO2 MVI-5-8	3354143	1	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	29.16	487.73	1.2	8	
CO2 MVI-5-9	3354144	1	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	29.87	487.73	1.2	8	
CO2 MVI-5-10	3354145	1	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	30.58	489.73	1.2	8	
CO2 MVI-5-11	3354146	1.5	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.26	516.13	1.5	8	
CO2 MVI-5-12	3354147	1.5	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.97	518.13	1.5	8	
CO2 MVI-5-13	3354148	1.5	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	34.67	520.13	1.5	8	
CO2 MVI-5-15	3354149	2	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	36.92	534.13	1.98	8	
CO2 MVI-5-17	3354150	2	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	38.34	538.13	1.98	8	

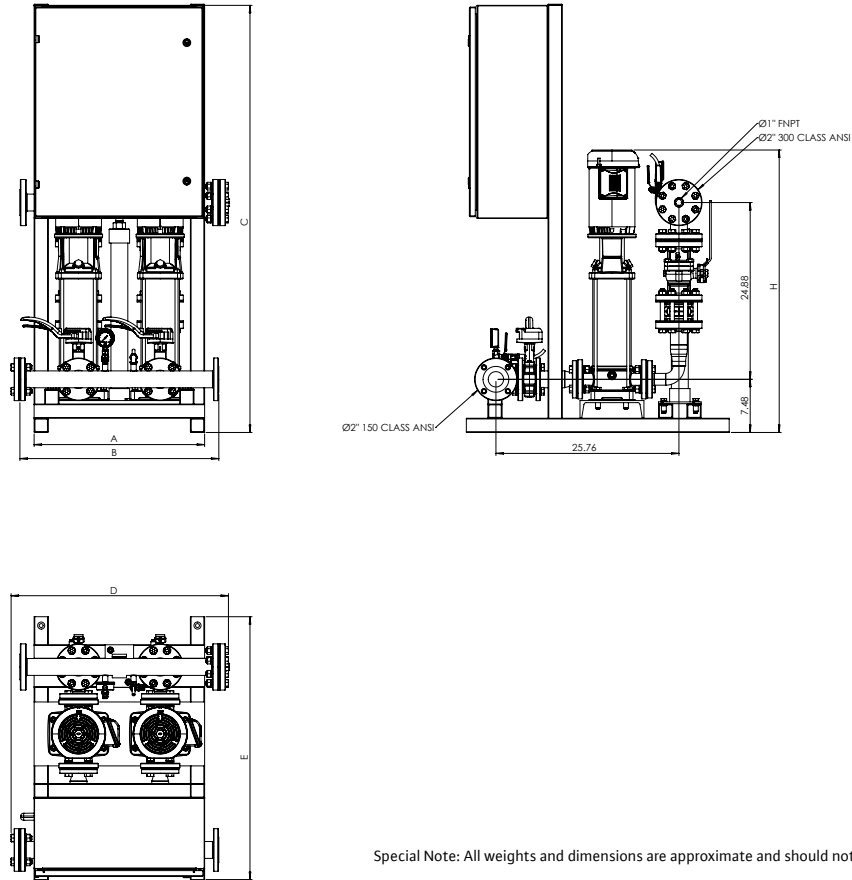
# Submittal Data Sheet

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



### CO2 MVI-5

#### 300# Discharge



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

### CO2 MVI-5

#### TEFC Motor Data (Per Motor)

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (In)							System Weight (Lbs)	TEFC Motor Data (Per Motor)	
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)		Motor FLA (per pump)	System FLA
CO2 MVI-5-19	3353014	2	208V-230V	~1 IN / ~3 OUT	2" 300#	363	24	28	60.13	30.59	37	-	39.76	572.74	5.46-4.94	31.4
CO2 MVI-5-21	3353015	3	208V-230V	~1 IN / ~3 OUT	2" 300#	363	28	38	60.13	34.59	37	37.23	43.71	695.26	8.12-7.34	31.4
CO2 MVI-5-23	3353016	3	208V-230V	~1 IN / ~3 OUT	2" 300#	363	28	38	60.13	34.59	37	37.23	45.13	699.26	8.12-7.34	31.4
CO2 MVI-5-25	3353017	3	208V-230V	~1 IN / ~3 OUT	2" 300#	363	28	38	60.13	34.59	37	37.23	46.54	701.26	8.12-7.34	31.4
CO2 MVI-5-27	3353018	3	208V-230V	~1 IN / ~3 OUT	2" 300#	363	28	38	60.13	34.59	37	37.23	47.96	705.26	8.12-7.34	31.4
CO2 MVI-5-19	3353173	2	208V-230V	~3	2" 300#	363	24	28	60.13	30.59	37	-	39.76	572.74	5.46-4.94	14.6
CO2 MVI-5-21	3353174	3	208V-230V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	43.71	695.26	8.12-7.34	20.2
CO2 MVI-5-23	3353175	3	208V-230V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	45.13	699.26	8.12-7.34	20.2
CO2 MVI-5-25	3353176	3	208V-230V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	46.54	701.26	8.12-7.34	20.2
CO2 MVI-5-27	3353177	3	208V-230V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	47.96	705.26	8.12-7.34	20.2
CO2 MVI-5-19	3353662	2	460V	~3	2" 300#	363	24	28	60.13	30.59	37	-	39.76	572.74	2.47	7.8
CO2 MVI-5-21	3353663	3	460V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	43.71	689.06	3.67	10.6
CO2 MVI-5-23	3353664	3	460V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	45.13	693.06	3.67	10.6
CO2 MVI-5-25	3353665	3	460V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	46.54	695.06	3.67	10.6
CO2 MVI-5-27	3353666	3	460V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	47.96	699.06	3.67	10.6
CO2 MVI-5-19	3354151	2	575V	~3	2" 300#	363	24	28	60.13	30.59	37	-	39.76	594.94	1.98	8
CO2 MVI-5-21	3354152	3	575V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	43.71	711.66	2.9	8
CO2 MVI-5-23	3354153	3	575V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	45.13	715.66	2.9	8
CO2 MVI-5-25	3354154	3	575V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	46.54	717.66	2.9	8
CO2 MVI-5-27	3354155	3	575V	~3	2" 300#	363	28	38	60.13	34.59	37	37.23	47.96	721.66	2.9	8



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

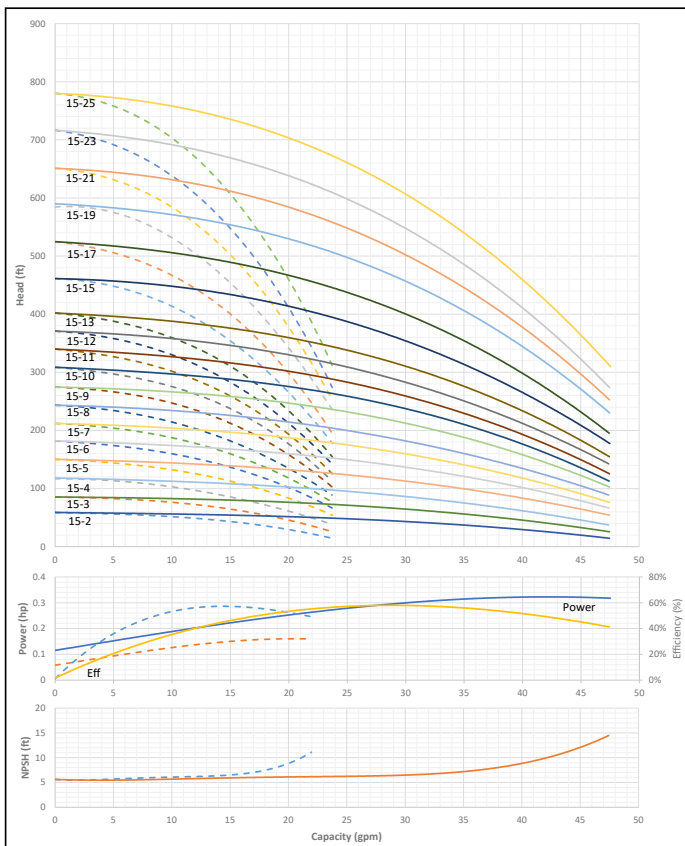


### CO2 MVI-15



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-15				1			3600



#### Applications

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

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

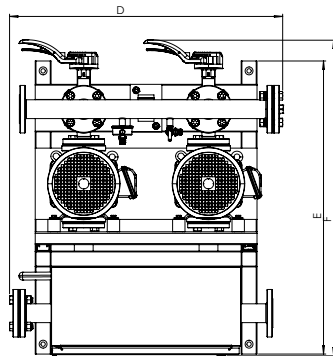
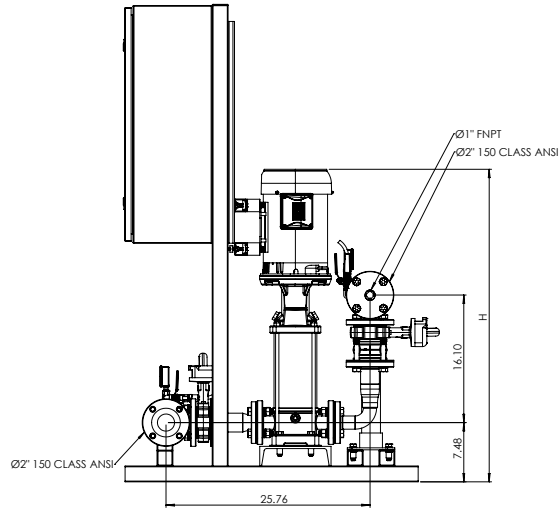
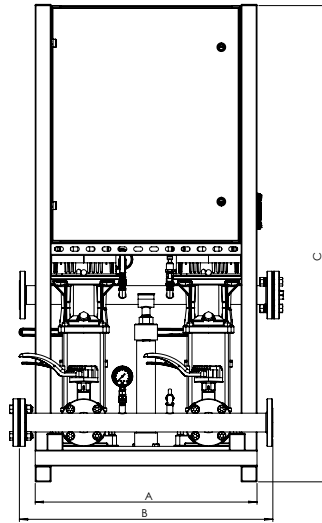
# Submittal Data Sheet

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



### CO2 MVI-15

#### 150# Discharge



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

### CO2 MVI-15

TEFC Motor Data  
(Per Motor)

Dimensions - Inches (in)

Motor FLA  
(per pump)    System  
FLA

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	System Weight (Lbs)	(A)
CO2 MVI-15-2	3353019	0.33	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	450.93	1.33-1.2    6.6
CO2 MVI-15-3	3353020	0.5	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	26.06	454.53	1.86-1.69    6.6
CO2 MVI-15-4	3353021	0.75	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	26.77	458.53	2.5-2.26    12.2
CO2 MVI-15-5	3353022	0.75	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	27.44	458.53	2.5-2.26    12.2
CO2 MVI-15-6	3353023	1	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	27.74	461.53	3.32-3    12.2
CO2 MVI-15-7	3353024	1.5	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	30.42	487.93	4.13-3.74    31.4
CO2 MVI-15-8	3353025	1.5	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	31.13	489.93	4.13-3.74    31.4
CO2 MVI-15-9	3353026	1.5	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	31.88	489.93	4.13-3.74    31.4
CO2 MVI-15-10	3353027	2	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	33.38	503.93	5.46-4.94    31.4
CO2 MVI-15-11	3353028	2	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	34.09	505.93	5.46-4.94    31.4
CO2 MVI-15-12	3353029	2	208V-230V	~1 IN / ~3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	34.8	507.93	5.46-4.94    31.4
CO2 MVI-15-13	3353030	3	208V-230V	~1 IN / ~3 OUT	2" 150#	363	28	32	60.13	34.47	37	39.86	38.04	628.44	8.12-7.34    31.4
CO2 MVI-15-15	3353031	3	208V-230V	~1 IN / ~3 OUT	2" 150#	363	28	32	60.13	34.47	37	39.86	39.46	630.44	8.12-7.34    31.4
CO2 MVI-15-17	3353032	3	208V-230V	~1 IN / ~3 OUT	2" 150#	363	28	32	60.13	34.47	37	39.86	40.87	634.44	8.12-7.34    31.4
CO2 MVI-15-2	3353178	0.33	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	448.73	1.33-1.2    6.6
CO2 MVI-15-3	3353179	0.5	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.06	452.33	1.86-1.69    6.6

# Submittal Data Sheet

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



CO2 MVI-15 150# Discharge															TEFC Motor Data (Per Motor)	
Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	System Weight (Lbs)	Dimensions - Inches (In)	
															Motor FLA (per pump)	System FLA
CO2 MVI-15-4	3353180	0.75	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.77	456.33	2.5-2.26	6.6
CO2 MVI-15-5	3353181	0.75	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	27.44	456.33	2.5-2.26	6.6
CO2 MVI-15-6	3353182	1	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	27.74	459.33	3.32-3	6.6
CO2 MVI-15-7	3353183	1.5	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	30.42	487.93	4.13-3.74	14.6
CO2 MVI-15-8	3353184	1.5	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	31.13	489.93	4.13-3.74	14.6
CO2 MVI-15-9	3353185	1.5	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	31.88	489.93	4.13-3.74	14.6
CO2 MVI-15-10	3353186	2	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.38	503.93	5.46-4.94	14.6
CO2 MVI-15-11	3353187	2	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	34.09	505.93	5.46-4.94	14.6
CO2 MVI-15-12	3353188	2	208V-230V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	34.8	507.93	5.46-4.94	14.6
CO2 MVI-15-13	3353189	3	208V-230V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	38.04	628.44	8.12-7.34	20.2
CO2 MVI-15-15	3353190	3	208V-230V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	39.46	630.44	8.12-7.34	20.2
CO2 MVI-15-17	3353191	3	208V-230V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	40.87	634.44	8.12-7.34	20.2
CO2 MVI-15-2	3353667	0.33	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	448.73	0.602	4.6
CO2 MVI-15-3	3353668	0.5	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.06	452.33	0.843	4.6
CO2 MVI-15-4	3353669	0.75	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.77	456.33	1.13	4.6
CO2 MVI-15-5	3353670	0.75	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	27.44	456.33	1.13	4.6
CO2 MVI-15-6	3353671	1	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	27.74	459.33	1.5	4.6
CO2 MVI-15-7	3353672	1.5	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	30.42	487.93	1.87	7.8
CO2 MVI-15-8	3353673	1.5	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	31.13	489.93	1.87	7.8
CO2 MVI-15-9	3353674	1.5	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	31.88	489.93	1.87	7.8
CO2 MVI-15-10	3353675	2	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.38	503.93	2.47	7.8
CO2 MVI-15-11	3353676	2	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	34.09	505.93	2.47	7.8
CO2 MVI-15-12	3353677	2	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	34.8	507.93	2.47	7.8
CO2 MVI-15-13	3353678	3	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	38.04	622.24	3.67	10.6
CO2 MVI-15-15	3353679	3	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	39.46	624.24	3.67	10.6
CO2 MVI-15-17	3353680	3	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	40.87	628.24	3.67	10.6
CO2 MVI-15-2	3354156	0.33	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	25.66	473.13	0.482	8
CO2 MVI-15-3	3354157	0.5	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.06	438.13	0.674	8
CO2 MVI-15-4	3354158	0.75	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.77	480.73	0.904	8
CO2 MVI-15-5	3354159	0.75	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	27.44	480.73	0.904	8
CO2 MVI-15-6	3354160	1	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	27.74	483.73	1.2	8
CO2 MVI-15-7	3354161	1.5	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	30.42	510.13	1.5	8
CO2 MVI-15-8	3354162	1.5	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	31.13	512.13	1.5	8
CO2 MVI-15-9	3354163	1.5	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	31.88	512.13	1.5	8
CO2 MVI-15-10	3354164	2	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.38	526.13	1.98	8
CO2 MVI-15-11	3354165	2	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	34.09	528.13	1.98	8
CO2 MVI-15-12	3354166	2	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	34.8	530.13	1.98	8
CO2 MVI-15-13	3354167	3	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	38.04	644.84	2.9	8
CO2 MVI-15-15	3354168	3	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	39.46	646.84	2.9	8
CO2 MVI-15-17	3354169	3	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	40.87	650.84	2.9	8

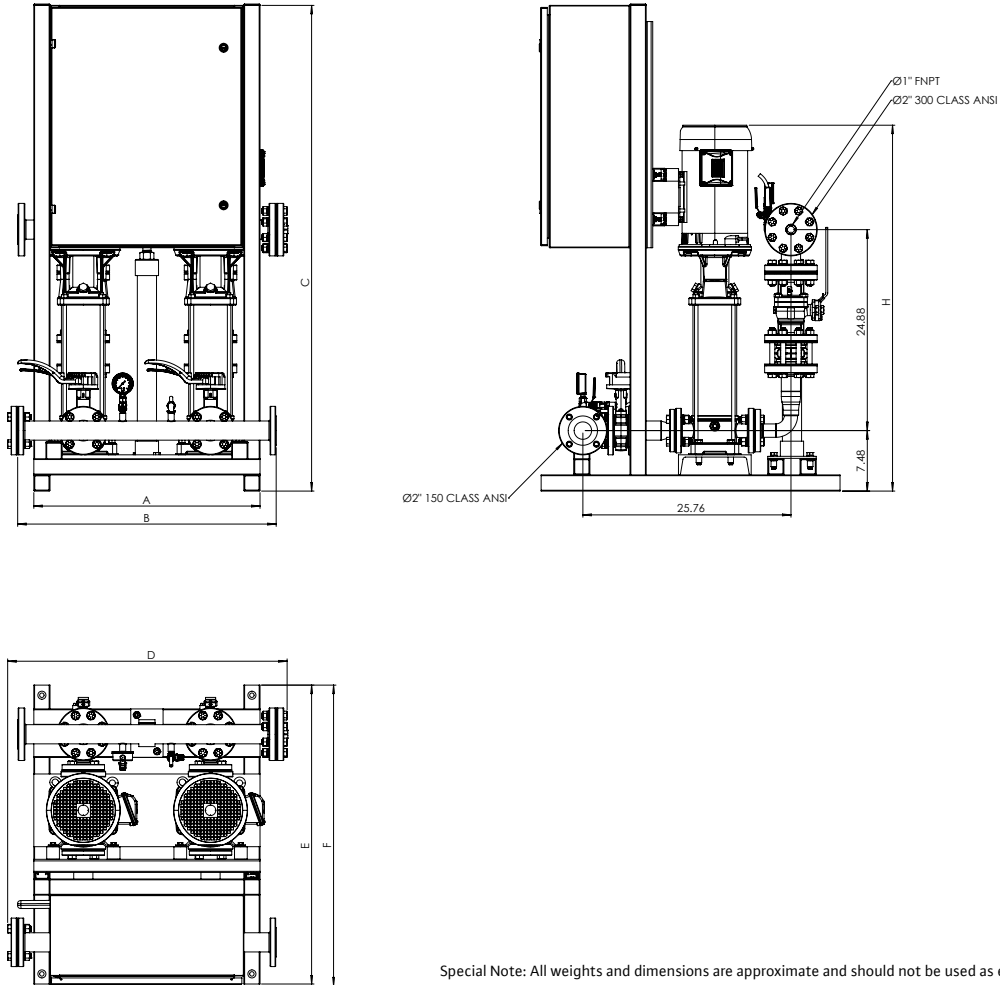
# Submittal Data Sheet

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



### CO2 MVI-15

#### 300# Discharge



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

### CO2 MVI-15

TEFC Motor Data  
(Per Motor)

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (In)								System Weight (Lbs)	Motor FLA (per pump)	System FLA
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	(A)			
CO2 MVI-15-19	3353033	3	208V-230V	~1 IN / ~3 OUT	2" 300#	363	28	32	60.13	34.59	37	37.23	42.48	691.26	8.12-7.34	31.4	
CO2 MVI-15-19	3353192	3	208V-230V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	42.48	691.26	8.12-7.34	20.2	
CO2 MVI-15-21	3353193	5	208V-230V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	45.29	725.66	13.1-11.8	31.4	
CO2 MVI-15-23	3353194	5	208V-230V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	46.71	729.66	13.1-11.8	31.4	
CO2 MVI-15-25	3353195	5	208V-230V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	48.12	731.66	13.1-11.8	31.4	
CO2 MVI-15-19	3353681	3	460V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	42.48	685.06	3.67	10.6	
CO2 MVI-15-21	3353682	5	460V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	45.29	725.66	5.9	17.4	
CO2 MVI-15-23	3353683	5	460V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	46.71	729.66	5.9	17.4	
CO2 MVI-15-25	3353684	5	460V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	48.12	731.66	5.9	17.4	
CO2 MVI-15-19	3354170	3	575V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	42.48	707.66	2.9	8	
CO2 MVI-15-21	3354171	5	575V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	45.29	741.86	4.72	12.2	
CO2 MVI-15-23	3354172	5	575V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	46.71	745.86	4.72	12.2	
CO2 MVI-15-25	3354173	5	575V	~3	2" 300#	363	28	32	60.13	34.59	37	37.23	48.12	747.86	4.72	12.2	

# Submittal Data Sheet

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

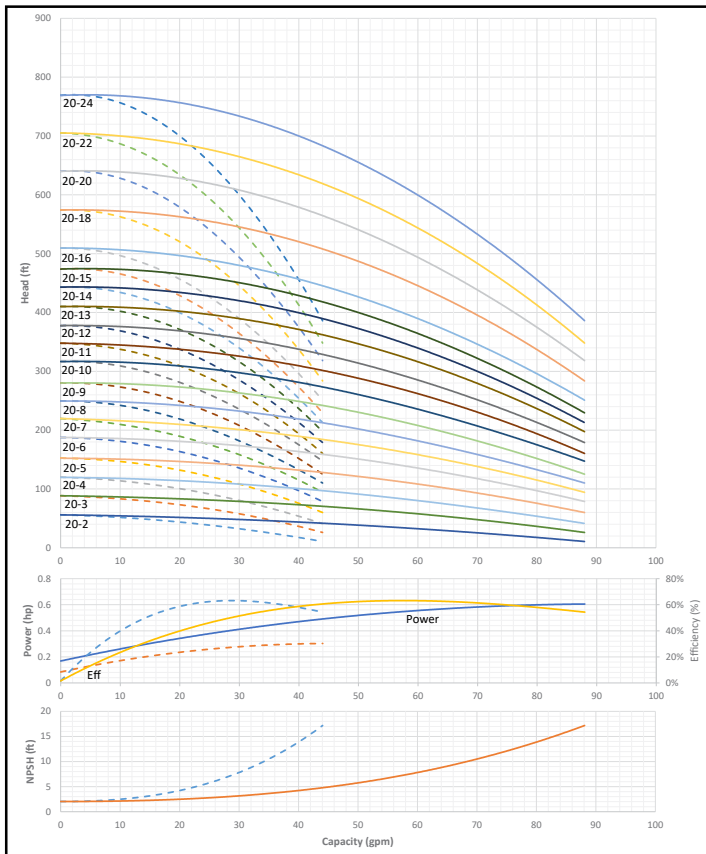


### CO2 MVI-20



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-20				1			3600



#### Applications

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

#### 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

#### 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

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

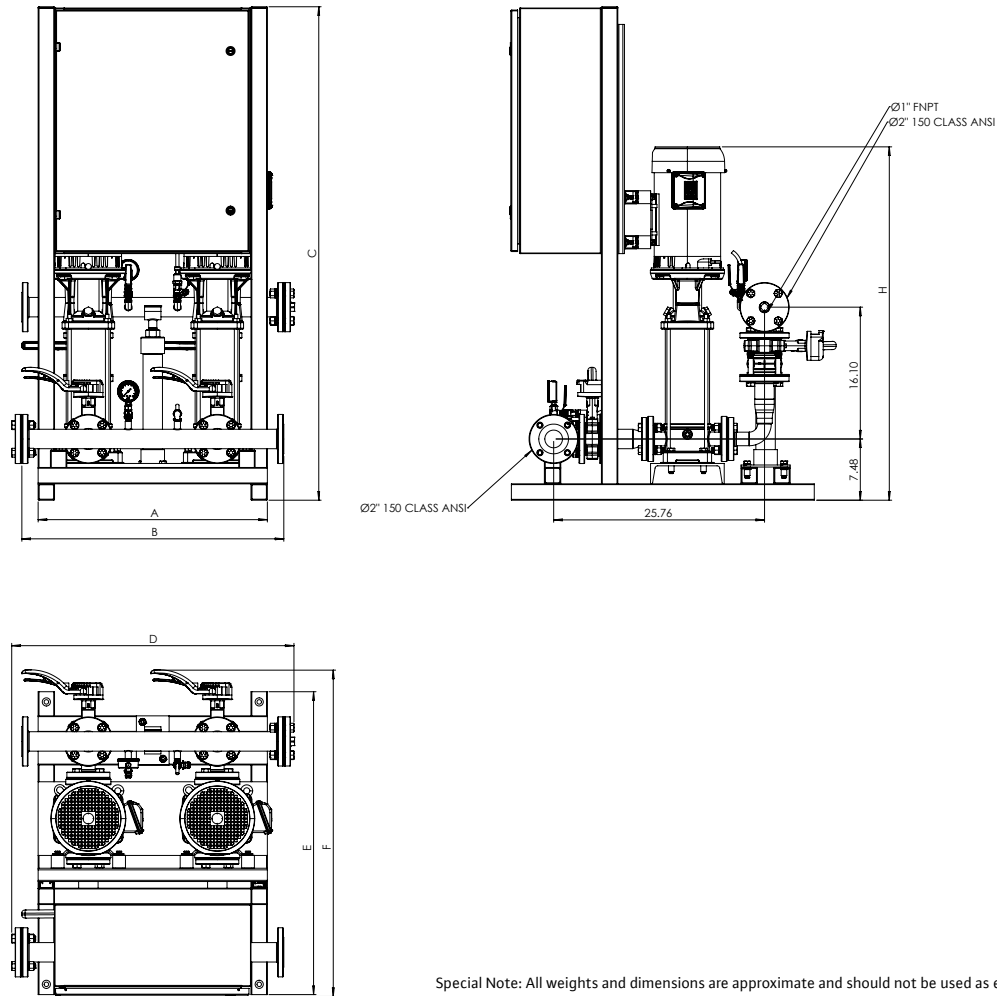
# Submittal Data Sheet

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



### CO2 MVI-20

#### 150# Discharge



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

### CO2 MVI-20

CO2 MVI-20															TEFC Motor Data (Per Motor)		
Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	Motor FLA (per pump)	System FLA
							A	B	C	D	E	F	H	(A)			
CO2 MVI-20-2	3353034	0.75	208V-230V	-1 IN / -3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	26.01	454.53	2.5-2.26	12.2	
CO2 MVI-20-3	3353035	1	208V-230V	-1 IN / -3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	26.71	459.53	3.32-3	12.2	
CO2 MVI-20-4	3353036	1	208V-230V	-1 IN / -3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	29.68	485.93	3.32-3	12.2	
CO2 MVI-20-5	3353037	1.5	208V-230V	-1 IN / -3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	30.78	487.93	4.13-3.74	31.4	
CO2 MVI-20-6	3353038	2	208V-230V	-1 IN / -3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	32.71	501.93	5.46-4.94	31.4	
CO2 MVI-20-7	3353039	2	208V-230V	-1 IN / -3 OUT	2" 150#	363	24	28	60.13	30.47	37	38.63	33.81	503.93	5.46-4.94	31.4	
CO2 MVI-20-8	3353040	3	208V-230V	-1 IN / -3 OUT	2" 150#	363	28	32	60.13	34.47	37	39.86	37.38	624.44	8.12-7.34	31.4	
CO2 MVI-20-9	3353041	3	208V-230V	-1 IN / -3 OUT	2" 150#	363	28	32	60.13	34.47	37	39.86	38.38	628.44	8.12-7.34	31.4	
CO2 MVI-20-10	3353042	3	208V-230V	-1 IN / -3 OUT	2" 150#	363	28	32	60.13	34.47	37	39.86	39.48	630.44	8.12-7.34	31.4	
CO2 MVI-20-2	3353196	0.75	208V-230V	-3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.01	452.33	2.5-2.26	6.6	
CO2 MVI-20-3	3353197	1	208V-230V	-3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.71	457.33	3.32-3	6.6	
CO2 MVI-20-4	3353198	1	208V-230V	-3	2" 150#	363	24	28	60.13	30.47	37	38.63	29.68	485.93	3.32-3	6.6	
CO2 MVI-20-5	3353199	1.5	208V-230V	-3	2" 150#	363	24	28	60.13	30.47	37	38.63	30.78	487.93	4.13-3.74	14.6	
CO2 MVI-20-6	3353200	2	208V-230V	-3	2" 150#	363	24	28	60.13	30.47	37	38.63	32.71	501.93	5.46-4.94	14.6	
CO2 MVI-20-7	3353201	2	208V-230V	-3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.81	503.93	5.46-4.94	14.6	
CO2 MVI-20-8	3353202	3	208V-230V	-3	2" 150#	363	28	32	60.13	34.47	37	39.86	37.38	624.44	8.12-7.34	20.2	

# Submittal Data Sheet

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



CO2 MVI-20 150# Discharge																TEFC Motor Data (Per Motor)	
Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	Motor FLA (per pump)	System FLA
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	(A)			
CO2 MVI-20-9	3353203	3	208V-230V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	38.38	628.44	8.12-7.34	20.2	
CO2 MVI-20-10	3353204	3	208V-230V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	39.48	630.44	8.12-7.34	20.2	
CO2 MVI-20-11	3353205	5	208V-230V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	42.06	662.84	13.1-11.8	31.4	
CO2 MVI-20-12	3353206	5	208V-230V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	43.16	664.84	13.1-11.8	31.4	
CO2 MVI-20-13	3353207	5	208V-230V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	44.26	666.84	13.1-11.8	31.4	
CO2 MVI-20-14	3353208	5	208V-230V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	45.26	668.84	13.1-11.8	31.4	
CO2 MVI-20-15	3353209	5	208V-230V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	46.36	672.84	13.1-11.8	31.4	
CO2 MVI-20-16	3353210	5	208V-230V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	47.46	674.84	13.1-11.8	31.4	
CO2 MVI-20-2	3353685	0.75	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.01	452.33	1.13	4.6	
CO2 MVI-20-3	3353686	1	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.71	457.33	1.5	4.6	
CO2 MVI-20-4	3353687	1	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	29.68	485.93	1.5	4.6	
CO2 MVI-20-5	3353688	1.5	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	30.78	487.93	1.87	7.8	
CO2 MVI-20-6	3353689	2	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	32.71	501.93	2.47	7.8	
CO2 MVI-20-7	3353690	2	460V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.81	503.93	2.47	7.8	
CO2 MVI-20-8	3353691	3	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	37.38	618.24	3.67	10.6	
CO2 MVI-20-9	3353692	3	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	38.38	622.24	3.67	10.6	
CO2 MVI-20-10	3353693	3	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	39.48	624.24	3.67	10.6	
CO2 MVI-20-11	3353694	5	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	42.06	662.84	5.9	17.4	
CO2 MVI-20-12	3353695	5	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	43.16	664.84	5.9	17.4	
CO2 MVI-20-13	3353696	5	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	44.26	666.84	5.9	17.4	
CO2 MVI-20-14	3353697	5	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	45.26	668.84	5.9	17.4	
CO2 MVI-20-15	3353698	5	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	46.36	672.84	5.9	17.4	
CO2 MVI-20-16	3353699	5	460V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	47.46	674.84	5.9	17.4	
CO2 MVI-20-2	3354174	0.75	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.01	476.73	0.904	8	
CO2 MVI-20-3	3354175	1	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	26.71	481.73	1.2	8	
CO2 MVI-20-4	3354176	1	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	29.68	508.13	1.2	8	
CO2 MVI-20-5	3354177	1.5	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	30.78	510.13	1.5	8	
CO2 MVI-20-6	3354178	2	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	32.67	524.13	1.98	8	
CO2 MVI-20-7	3354179	2	575V	~3	2" 150#	363	24	28	60.13	30.47	37	38.63	33.77	526.13	1.98	8	
CO2 MVI-20-8	3354180	3	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	37.38	640.84	2.9	8	
CO2 MVI-20-9	3354181	3	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	38.38	644.84	2.9	8	
CO2 MVI-20-10	3354182	3	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	39.48	646.84	2.9	8	
CO2 MVI-20-11	3354183	5	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	42.06	679.04	4.72	12.2	
CO2 MVI-20-12	3354184	5	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	43.16	681.04	4.72	12.2	
CO2 MVI-20-13	3354185	5	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	44.26	683.04	4.72	12.2	
CO2 MVI-20-14	3354186	5	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	45.26	685.04	4.72	12.2	
CO2 MVI-20-15	3354187	5	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	46.36	689.04	4.72	12.2	
CO2 MVI-20-16	3354188	5	575V	~3	2" 150#	363	28	32	60.13	34.47	37	39.86	47.46	691.04	4.72	12.2	

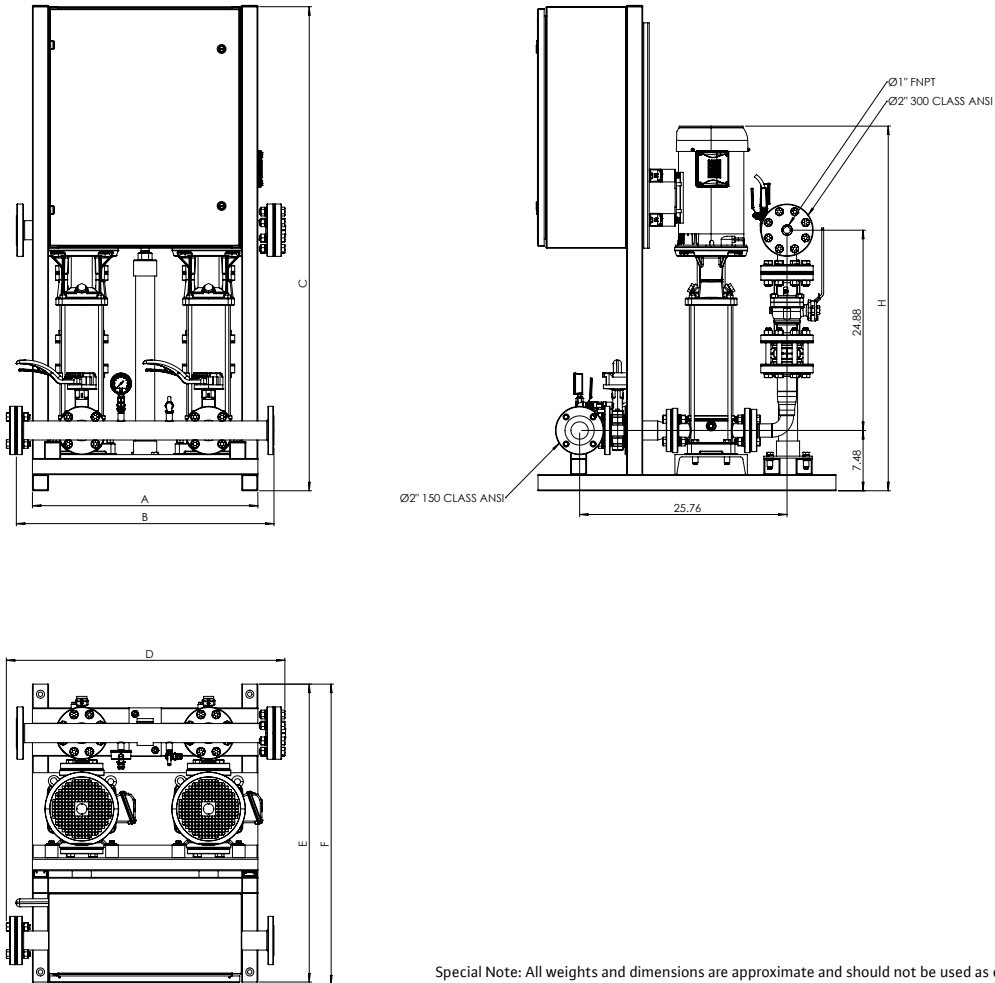
# Submittal Data Sheet

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



### CO2 MVI-20

#### 300# Discharge



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

### CO2 MVI-20

#### TEFC Motor Data (Per Motor)

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	Motor FLA (per pump)	System FLA
							A	B	C	D	E	F	H	(A)			
CO2 MVI-20-18	3353211	7.5	208V-230V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	51.85	867.86	19.2-17.3	43-37	
CO2 MVI-20-20	3353212	7.5	208V-230V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	53.95	873.86	19.2-17.3	43-37	
CO2 MVI-20-22	3353213	7.5	208V-230V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	56.05	877.86	19.2-17.3	43-37	
CO2 MVI-20-24	3353214	7.5	208V-230V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	58.15	881.86	19.2-17.3	43-37	
CO2 MVI-20-18	3353700	7.5	460V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	51.85	846.26	8.67	34.2	
CO2 MVI-20-20	3353701	7.5	460V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	53.95	852.26	8.67	34.2	
CO2 MVI-20-22	3353702	7.5	460V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	56.05	856.26	8.67	34.2	
CO2 MVI-20-24	3353703	7.5	460V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	58.15	860.26	8.67	34.2	
CO2 MVI-20-18	3354189	7.5	575V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	51.85	866.26	6.94	17.6	
CO2 MVI-20-20	3354190	7.5	575V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	53.95	872.26	6.94	17.6	
CO2 MVI-20-22	3354191	7.5	575V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	56.05	876.26	6.94	17.6	
CO2 MVI-20-24	3354192	7.5	575V	~3	2" 300#	363	28	32	60.13	34.59	37	38.23	58.15	880.26	6.94	17.6	



# Submittal Data Sheet

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

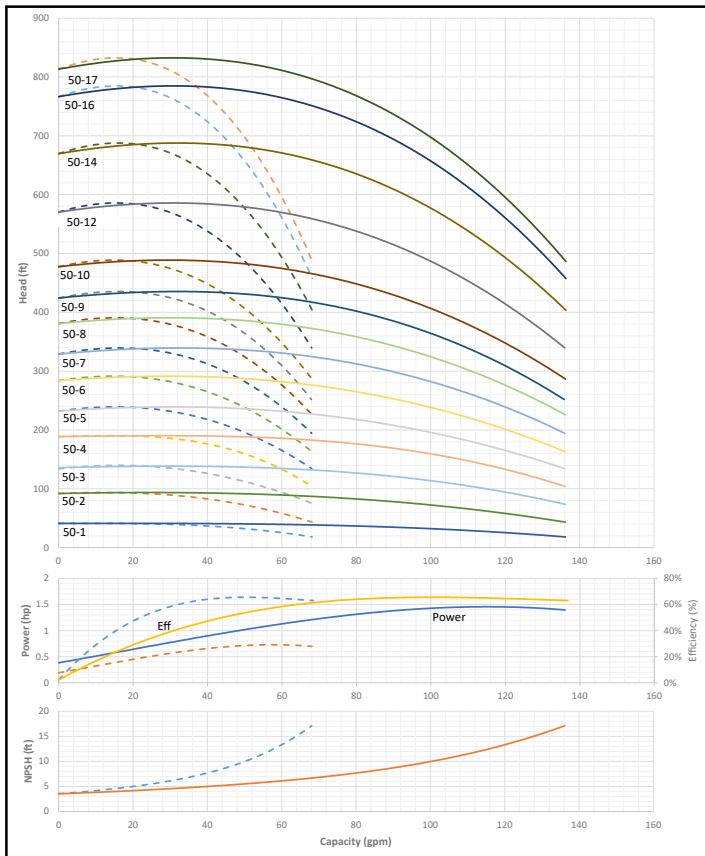


### CO2 MVI-50



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-50				1			3600



#### Applications

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

#### 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

#### 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

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

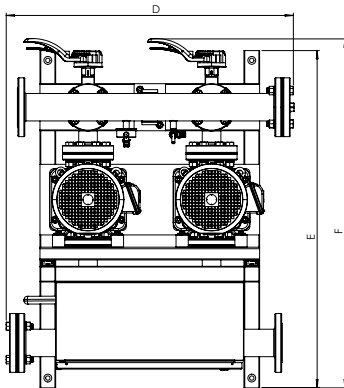
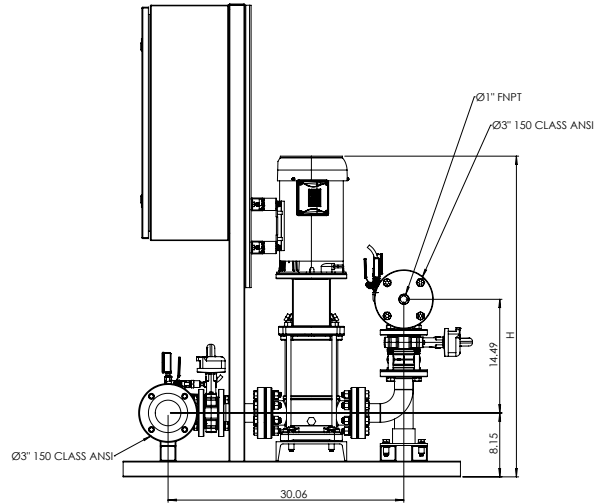
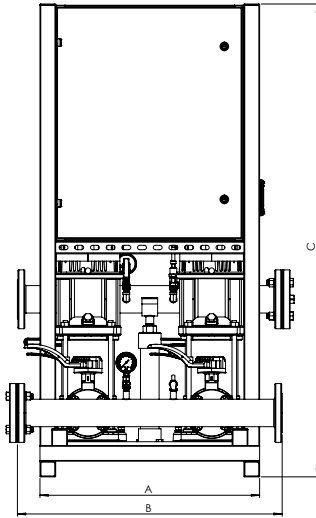
# Submittal Data Sheet

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



### CO2 MVI-50

#### 150# Discharge



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

### CO2 MVI-50

#### TEFC Motor Data (Per Motor)

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	Motor FLA (per pump)		System FLA
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	(A)		(A)		
CO2 MVI-50-1	3353043	0.75	208V-230V	~1 IN/~3 OUT	3" 150#	232	24	28.75	60.13	31.6	42	43.49	29.5	457.15	2.5-2.26	12.2		
CO2 MVI-50-2	3353044	1.5	208V-230V	~1 IN/~3 OUT	3" 150#	232	24	28.75	60.13	31.6	42	43.49	30.62	482.55	4.13-3.74	31.4		
CO2 MVI-50-3	3353045	3	208V-230V	~1 IN/~3 OUT	3" 150#	232	28	33.75	60.13	36.6	43	44.49	35.21	640.06	8.12-7.34	14.6		
CO2 MVI-50-4	3353046	3	208V-230V	~1 IN/~3 OUT	3" 150#	232	28	33.75	60.13	36.6	43	44.49	36.41	646.06	8.12-7.34	7.8		
CO2 MVI-50-1	3353215	0.75	208V-230V	~3	3" 150#	232	24	28.75	60.13	31.6	42	43.49	29.5	554.38	2.5-2.26	6.6		
CO2 MVI-50-2	3353216	1.5	208V-230V	~3	3" 150#	232	24	28.75	60.13	31.6	42	43.49	30.62	581.98	4.13-3.74	14.6		
CO2 MVI-50-3	3353217	3	208V-230V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	35.21	745.68	8.12-7.34	14.6		
CO2 MVI-50-4	3353218	3	208V-230V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	36.41	751.68	8.12-7.34	7.8		
CO2 MVI-50-5	3353219	5	208V-230V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	39.17	786.08	13.1-11.8	8		
CO2 MVI-50-6	3353220	5	208V-230V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	40.35	790.08	13.1-11.8	31.4		
CO2 MVI-50-7	3353221	5	208V-230V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	40.89	794.08	13.1-11.8	31.4		
CO2 MVI-50-8	3353222	7.5	208V-230V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	44.95	938.28	19.2-17.3	43-37		
CO2 MVI-50-9	3353223	7.5	208V-230V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	46.13	942.28	19.2-17.3	43-37		
CO2 MVI-50-10	3353224	7.5	208V-230V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	47.31	946.28	19.2-17.3	43-37		
CO2 MVI-50-1	3353704	0.75	460V	~3	3" 150#	232	24	28.75	60.13	31.6	42	43.49	29.5	457.15	1.13	4.6		
CO2 MVI-50-2	3353705	1.5	460V	~3	3" 150#	232	24	28.75	60.13	31.6	42	43.49	30.62	482.55	1.87	7.8		

# Submittal Data Sheet

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



CO2 MVI-50 150# Discharge																TEFC Motor Data (Per Motor)	
																Motor FLA (per pump)	System FLA
																Dimensions - Inches (in)	
Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	System Weight (Lbs)	(A)		
CO2 MVI-50-3	3353706	3	460V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	35.21	640.06	3.67	10.6	
CO2 MVI-50-4	3353707	3	460V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	36.41	646.06	3.67	10.6	
CO2 MVI-50-5	3353708	5	460V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	39.17	680.46	5.9	17.4	
CO2 MVI-50-6	3353709	5	460V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	40.35	684.46	5.9	17.4	
CO2 MVI-50-7	3353710	5	460V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	40.89	688.46	5.9	17.4	
CO2 MVI-50-8	3353711	7.5	460V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	44.95	811.06	8.67	34.2	
CO2 MVI-50-9	3353712	7.5	460V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	46.13	815.06	8.67	34.2	
CO2 MVI-50-10	3353713	7.5	460V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	47.31	819.06	8.67	34.2	
CO2 MVI-50-1	3354193	0.75	575V	~3	3" 150#	232	24	28.75	60.13	31.6	42	43.49	29.5	457.15	0.904	8	
CO2 MVI-50-2	3354194	1.5	575V	~3	3" 150#	232	24	28.75	60.13	31.6	42	43.49	30.62	482.55	1.5	8	
CO2 MVI-50-3	3354195	3	575V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	35.21	640.46	2.9	8	
CO2 MVI-50-4	3354196	3	575V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	36.41	646.46	2.9	8	
CO2 MVI-50-5	3354197	5	575V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	39.17	680.66	4.72	12.2	
CO2 MVI-50-6	3354198	5	575V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	40.35	684.66	4.72	12.2	
CO2 MVI-50-7	3354199	5	575V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	40.89	688.66	4.72	12.2	
CO2 MVI-50-8	3354200	7.5	575V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	44.95	815.06	6.94	17.6	
CO2 MVI-50-9	3354201	7.5	575V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	46.13	819.06	6.94	17.6	
CO2 MVI-50-10	3354202	7.5	575V	~3	3" 150#	232	28	33.75	60.13	36.6	43	44.49	47.31	823.06	6.94	17.6	

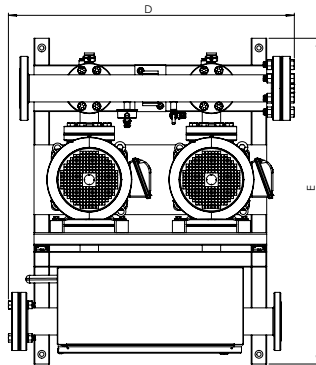
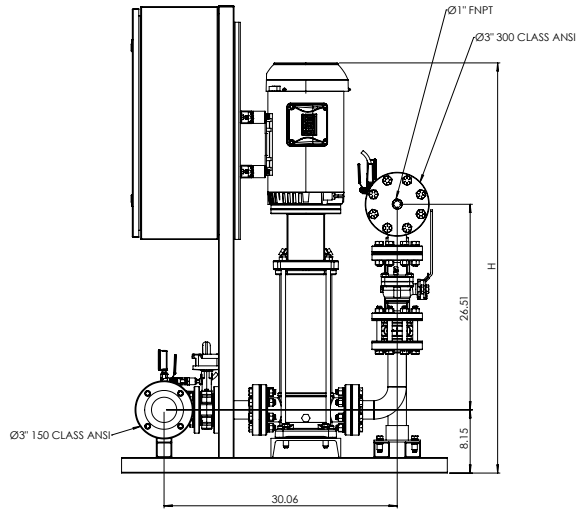
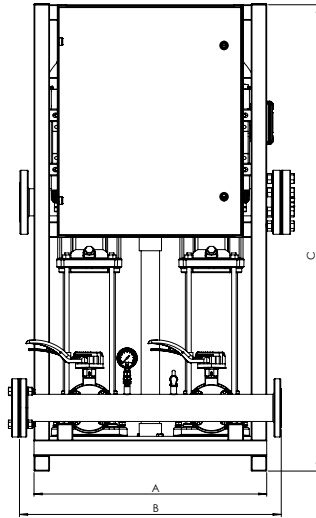
# Submittal Data Sheet

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



### CO2 MVI-50

#### 300# Discharge



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

### CO2 MVI-50

CO2 MVI-50															TEFC Motor Data (Per Motor)	
Dimensions - Inches (In)															Motor FLA (per pump)	System FLA
Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	System Weight (Lbs)	(A)	
CO2 MVI-50-12	3353225	10	208V-230V	~3	3" 300#	363	30	33.75	60.13	36.86	42	51.22	0	947.17	25.4-23	57.6-49
CO2 MVI-50-14	3353226	10	208V-230V	~3	3" 300#	363	30	33.75	60.13	36.86	42	52.89	0	957.17	25.4-23	57.6-49
CO2 MVI-50-16	3353227	15	208V-230V	~3	3" 300#	363	38	40.75	65.13	44.1	43	44.1	61.55	1404.86	38.5-34.8	83-77.4
CO2 MVI-50-17	3353228	15	208V-230V	~3	3" 300#	363	38	40.75	65.13	44.1	43	44.1	62.54	1410.86	38.5-34.8	83-77.4
CO2 MVI-50-12	3353714	10	460V	~3	3" 300#	363	30	33.75	60.13	36.86	42	51.22	0	947.17	11.5	29
CO2 MVI-50-14	3353715	10	460V	~3	3" 300#	363	30	33.75	60.13	36.86	42	52.89	0	957.17	11.5	29
CO2 MVI-50-16	3353716	15	460V	~3	3" 300#	363	37	40.75	60.13	43.86	43	43	61.34	1320.55	17.4	37.8
CO2 MVI-50-17	3353717	15	460V	~3	3" 300#	363	37	40.75	60.13	43.86	43	43	62.54	1326.55	17.4	37.8
CO2 MVI-50-12	3354203	10	575V	~3	3" 300#	363	30	33.75	60.13	36.86	42	51.22	0	955.17	9.2	23.8
CO2 MVI-50-14	3354204	10	575V	~3	3" 300#	363	30	33.75	60.13	36.86	42	52.89	0	965.17	9.2	23.8
CO2 MVI-50-16	3354205	15	575V	~3	3" 300#	363	38	40.75	65.13	44.1	43	44.1	61.55	1316.86	13.8	32.4
CO2 MVI-50-17	3354206	15	575V	~3	3" 300#	363	38	40.75	65.13	44.1	43	44.1	62.54	1322.86	13.8	32.4

# Submittal Data Sheet

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

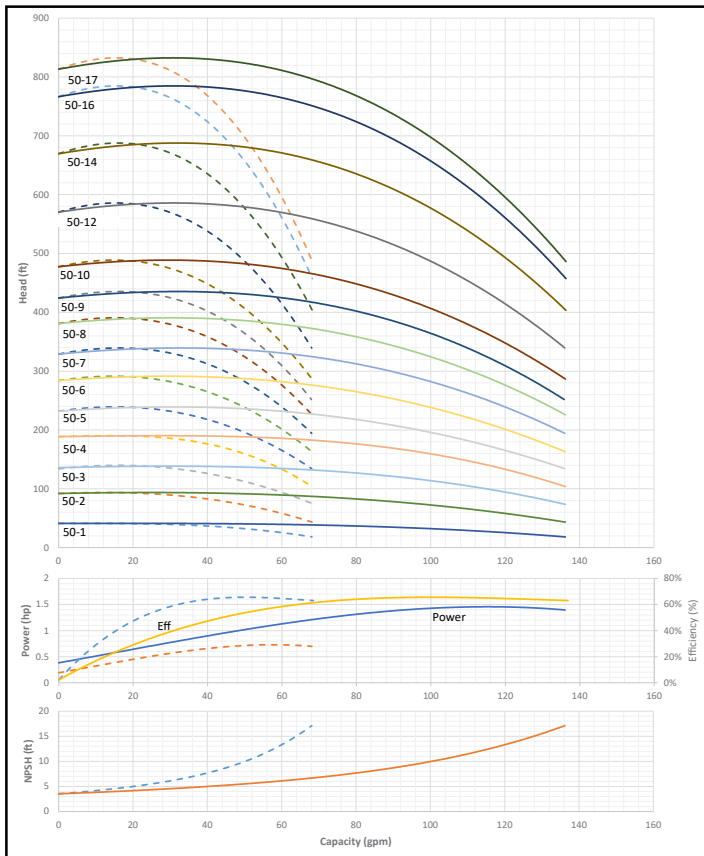


### CO2 MVI-1SB-50



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-1SB-50				1			3600



#### Applications

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

#### 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

#### 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

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

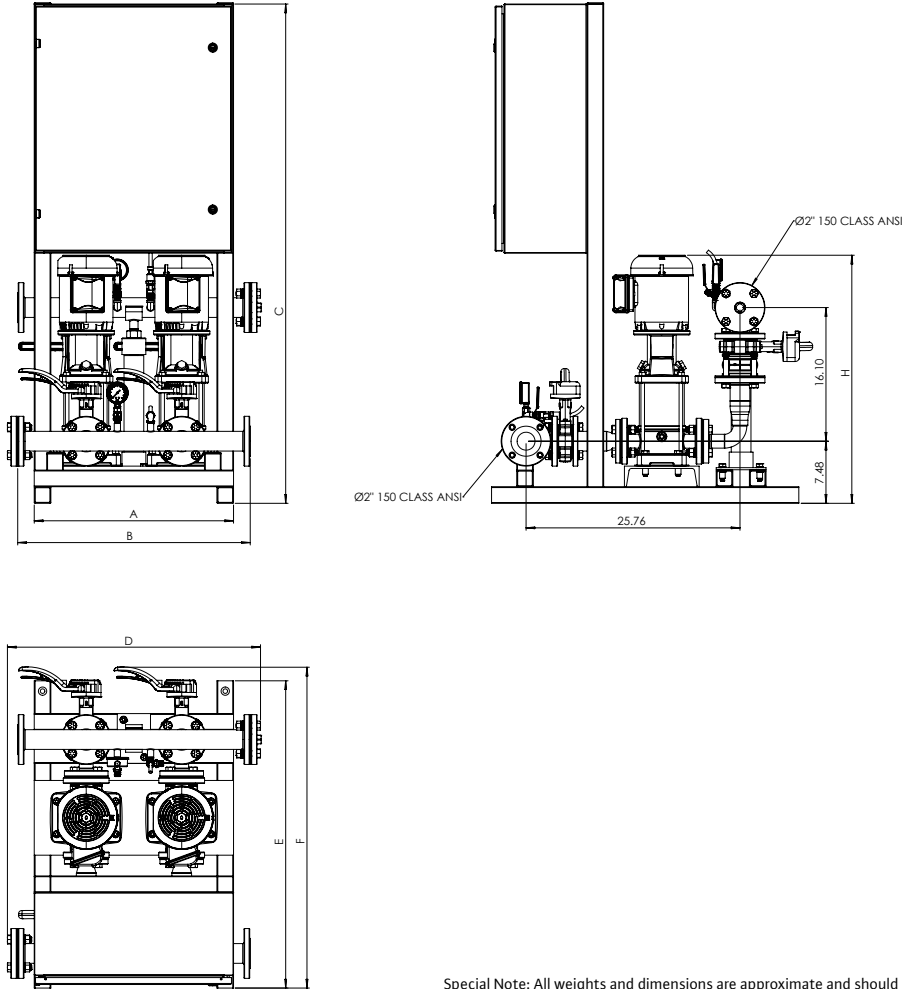
# Submittal Data Sheet

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



### CO2 MVI-1SB-50

#### 150# Discharge



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

### CO2 MVI-1SB-50

TEFC Motor Data  
(Per Motor)

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	TEFC Motor Data (Per Motor)	
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	Motor FLA (per pump)		System FLA	
CO2 MVI-1SB-50-1	3354734	0.75	208V-230V	~1 IN/~3 OUT	2" 150#	232	24	28	60.13	30.47	40.5	42.49	29.5	441.58	2.5-2.26	12.2	
CO2 MVI-1SB-50-2	3354735	1.5	208V-230V	~1 IN/~3 OUT	2" 150#	232	24	28	60.13	30.47	40.5	42.49	30.62	466.98	4.13-3.74	31.4	
CO2 MVI-1SB-50-3	3354736	3	208V-230V	~1 IN/~3 OUT	2" 150#	232	28	32	60.13	34.47	40.5	42.99	35.21	623.74	8.12-7.34	31.4	
CO2 MVI-1SB-50-4	3354737	3	208V-230V	~1 IN/~3 OUT	2" 150#	232	28	32	60.13	34.47	40.5	42.99	36.41	629.74	8.12-7.34	31.4	
CO2 MVI-1SB-50-1	3354764	0.75	208V-230V	~3	2" 150#	232	24	28	60.13	30.47	40.5	42.49	29.5	538.8	2.5-2.26	6.6	
CO2 MVI-1SB-50-2	3354765	1.5	208V-230V	~3	2" 150#	232	24	28	60.13	30.47	40.5	42.49	30.62	566.4	4.13-3.74	14.6	
CO2 MVI-1SB-50-3	3354766	3	208V-230V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	35.21	729.37	8.12-7.34	20.2	
CO2 MVI-1SB-50-4	3354767	3	208V-230V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	36.41	735.37	8.12-7.34	20.2	
CO2 MVI-1SB-50-5	3354768	5	208V-230V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	39.17	769.77	13.1-11.8	31.4	
CO2 MVI-1SB-50-6	3354769	5	208V-230V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	40.35	773.77	13.1-11.8	31.4	
CO2 MVI-1SB-50-7	3354770	5	208V-230V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	40.89	777.77	13.1-11.8	31.4	
CO2 MVI-1SB-50-8	3354771	7.5	208V-230V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	44.95	921.97	19.2-17.3	43-37	
CO2 MVI-1SB-50-9	3354772	7.5	208V-230V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	46.13	925.97	19.2-17.3	43-37	
CO2 MVI-1SB-50-10	3354773	7.5	208V-230V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	47.31	929.97	19.2-17.3	43-37	
CO2 MVI-1SB-50-1	3355054	0.75	460V	~3	2" 150#	232	24	28	60.13	30.47	40.5	42.49	29.5	441.58	1.13	4.6	
CO2 MVI-1SB-50-2	3355055	1.5	460V	~3	2" 150#	232	24	28	60.13	30.47	40.5	42.49	30.62	466.98	1.87	7.8	

# Submittal Data Sheet

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



CO2 MVI-1SB-50 150# Discharge															TEFC Motor Data (Per Motor)	
															Motor FLA (per pump)	System FLA
															Dimensions - Inches (in)	
Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	System Weight (Lbs)	(A)	
CO2 MVI-1SB-50-3	3355056	3	460V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	35.21	623.74	3.67	10.6
CO2 MVI-1SB-50-4	3355057	3	460V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	36.41	629.74	3.67	10.6
CO2 MVI-1SB-50-5	3355058	5	460V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	39.17	664.14	5.9	17.4
CO2 MVI-1SB-50-6	3355059	5	460V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	40.35	668.14	5.9	17.4
CO2 MVI-1SB-50-7	3355060	5	460V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	40.89	672.14	5.9	17.4
CO2 MVI-1SB-50-8	3355061	7.5	460V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	44.95	794.74	8.67	34.2
CO2 MVI-1SB-50-9	3355062	7.5	460V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	46.13	798.74	8.67	34.2
CO2 MVI-1SB-50-10	3355063	7.5	460V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	47.31	802.74	8.67	34.2
CO2 MVI-1SB-50-1	3355344	0.75	575V	~3	2" 150#	232	24	28	60.13	30.47	40.5	42.49	29.5	441.58	0.904	8
CO2 MVI-1SB-50-2	3355345	1.5	575V	~3	2" 150#	232	24	28	60.13	30.47	40.5	42.49	30.62	466.98	1.5	8
CO2 MVI-1SB-50-3	3355346	3	575V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	35.21	624.14	2.9	8
CO2 MVI-1SB-50-4	3355347	3	575V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	36.41	630.14	2.9	8
CO2 MVI-1SB-50-5	3355348	5	575V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	39.17	664.34	4.72	12.2
CO2 MVI-1SB-50-6	3355349	5	575V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	40.35	668.34	4.72	12.2
CO2 MVI-1SB-50-7	3355350	5	575V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	40.89	672.34	4.72	12.2
CO2 MVI-1SB-50-8	3355351	7.5	575V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	44.95	798.74	6.94	17.6
CO2 MVI-1SB-50-9	3355352	7.5	575V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	46.13	802.74	6.94	17.6
CO2 MVI-1SB-50-10	3355353	7.5	575V	~3	2" 150#	232	28	32	60.13	34.47	40.5	42.99	47.31	806.74	6.94	17.6

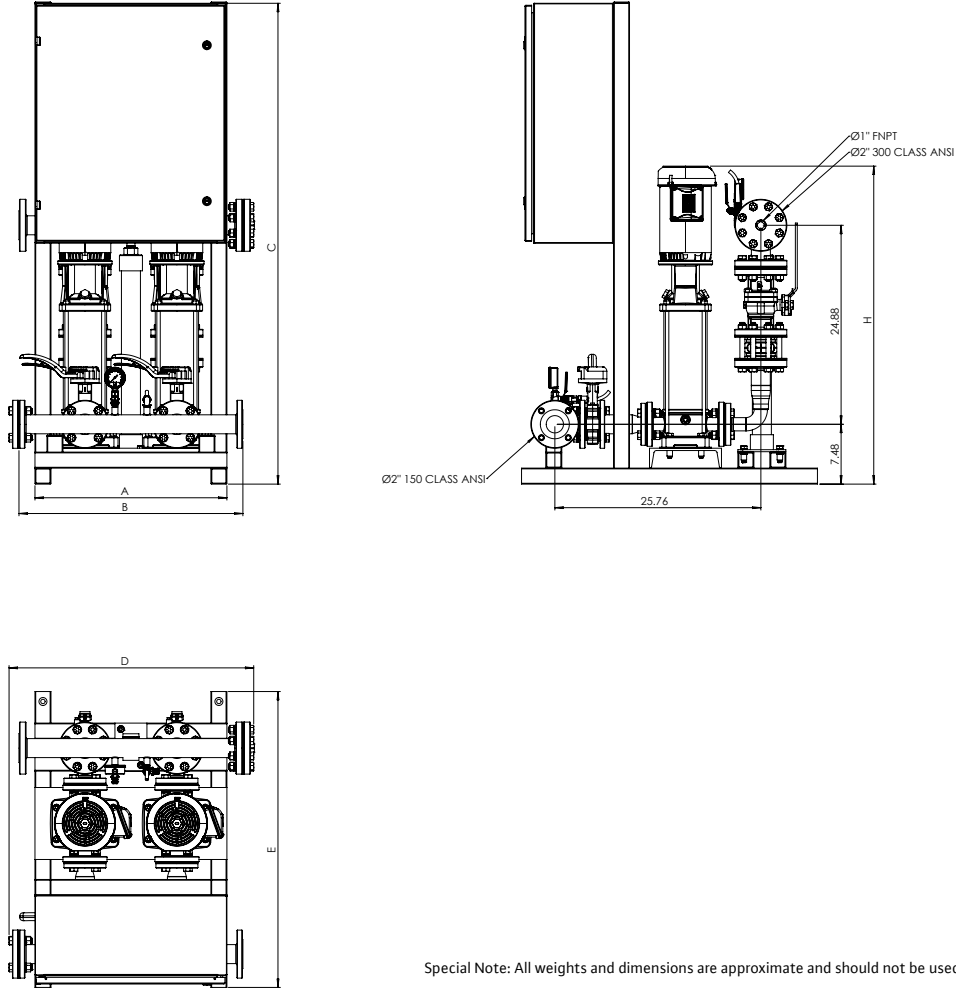
# Submittal Data Sheet

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



### CO2 MVI-1SB-50

#### 300# Discharge



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

### CO2 MVI-1SB-50

#### TEFC Motor Data (Per Motor)

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	TEFC Motor Data (Per Motor)	
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	Motor FLA (per pump)		System FLA	
CO2 MVI-1SB-50-12	3354774	10	208V-230V	~3	2" 300#	363	30	32	60.13	34.59	41	41	51.22	925.55	25.4-23	57.6-49	
CO2 MVI-1SB-50-14	3354775	10	208V-230V	~3	2" 300#	363	30	32	60.13	34.59	41	41	52.89	935.55	25.4-23	57.6-49	
CO2 MVI-1SB-50-16	3354776	15	208V-230V	~3	2" 300#	363	38	42	65.13	44.62	41	44.11	61.34	1382.64	38.5-34.8	83-77.4	
CO2 MVI-1SB-50-17	3354777	15	208V-230V	~3	2" 300#	363	38	42	65.13	44.62	41	44.11	62.54	1388.64	38.5-34.8	83-77.4	
CO2 MVI-1SB-50-12	3355064	10	460V	~3	2" 300#	363	30	32	60.13	34.59	41	41	51.22	925.55	11.5	29	
CO2 MVI-1SB-50-14	3355065	10	460V	~3	2" 300#	363	30	32	60.13	34.59	41	41	52.89	935.55	11.5	29	
CO2 MVI-1SB-50-16	3355066	15	460V	~3	2" 300#	363	38	42	60.13	44.62	41	41.61	61.34	1301.17	17.4	37.8	
CO2 MVI-1SB-50-17	3355067	15	460V	~3	2" 300#	363	38	42	60.13	44.62	41	41.61	62.54	1307.49	17.4	37.8	
CO2 MVI-1SB-50-12	3355354	10	575V	~3	2" 300#	363	30	32	60.13	34.59	41	41	51.22	933.55	9.2	23.8	
CO2 MVI-1SB-50-14	3355355	10	575V	~3	2" 300#	363	30	32	60.13	34.59	41	41	52.89	943.55	9.2	23.8	
CO2 MVI-1SB-50-16	3355356	15	575V	~3	2" 300#	363	38	42	65.13	44.62	41	44.11	61.34	1294.64	13.8	32.4	
CO2 MVI-1SB-50-17	3355357	15	575V	~3	2" 300#	363	38	42	65.13	44.62	41	44.11	62.54	1300.64	13.8	32.4	



# Submittal Data Sheet

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

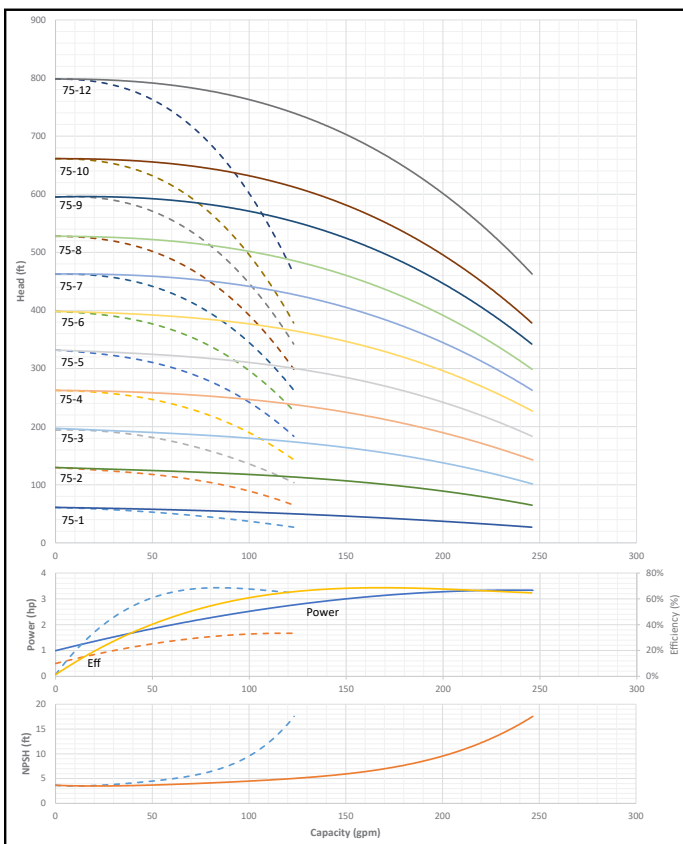


### CO2 MVI-75



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-75				1			3600



#### Applications

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

#### 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

#### 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

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

Approval Stamp

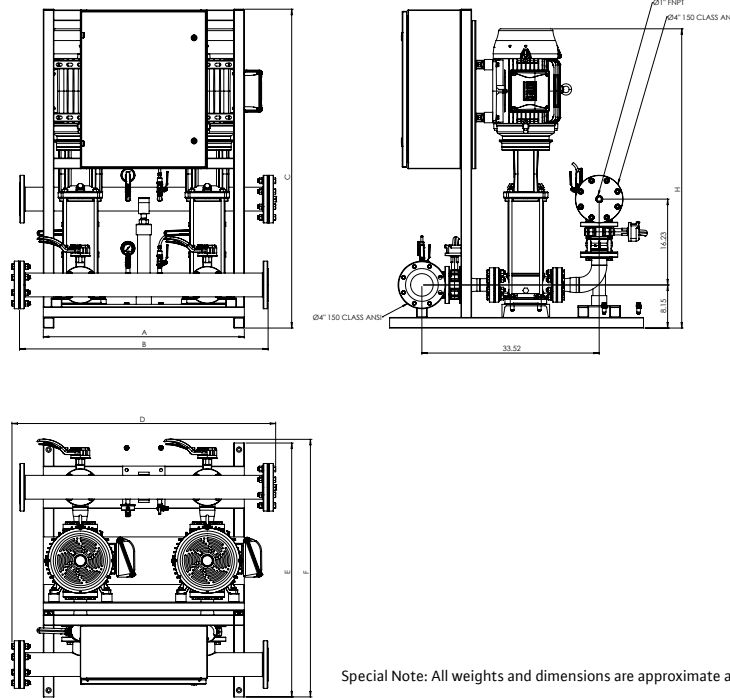
# Submittal Data Sheet

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



### CO2 MVI-75

#### 150# Discharge



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

CO2 MVI-75															TEFC Motor Data (Per Motor)		
Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	Motor FLA	System
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	(A)		FLA	
CO2 MVI-75-1	3353050	2	208V-230V	~1 IN / ~3 OUT	4" 150#	232	24	30.5	60.13	33.35	48	48.25	32.55	551.88	5.46-4.94	31.4	
CO2 MVI-75-1	3353229	2	208V-230V	~3	4" 150#	232	24	30.5	60.13	33.35	48	48.25	32.55	651.3	5.46-4.94	14.6	
CO2 MVI-75-2	3353230	5	208V-230V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	36.77	830.07	13.1-11.8	31.4	
CO2 MVI-75-3	3353231	5	208V-230V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	37.94	836.07	13.1-11.8	31.4	
CO2 MVI-75-4	3353232	7.5	208V-230V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	42.55	980.27	19.2-17.3	43-37	
CO2 MVI-75-5	3353233	10	208V-230V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	45.87	913.04	25.4-23	57.6-49	
CO2 MVI-75-6	3353234	10	208V-230V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	46.95	919.04	25.4-23	57.6-49	
CO2 MVI-75-7	3353235	15	208V-230V	~3	4" 150#	232	38	47	60.13	49.85	48	48.69	54.81	1367.11	38.5-34.8	83-77.4	
CO2 MVI-75-8	3353236	15	208V-230V	~3	4" 150#	232	38	47	56.58	49.85	47.5	48.3	56.58	1372.85	38.5-34.8	83-77.4	
CO2 MVI-75-1	3353718	2	460V	~3	4" 150#	232	24	30.5	60.13	33.35	48	48.25	32.55	551.88	2.47	7.8	
CO2 MVI-75-2	3353719	5	460V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	36.77	724.44	5.9	17.4	
CO2 MVI-75-3	3353720	5	460V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	37.94	730.44	5.9	17.4	
CO2 MVI-75-4	3353721	7.5	460V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	42.55	853.04	8.67	34.2	
CO2 MVI-75-5	3353722	10	460V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	45.87	913.04	11.5	29	
CO2 MVI-75-6	3353723	10	460V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	46.95	919.04	11.5	29	
CO2 MVI-75-7	3353724	15	460V	~3	4" 150#	232	38	47	60.13	49.85	48	48.69	54.81	1289.48	17.4	37.8	
CO2 MVI-75-8	3353725	15	460V	~3	4" 150#	232	38	47	60.13	49.85	48	48.69	56.58	1294.19	17.4	37.8	
CO2 MVI-75-1	3354207	2	575V	~3	4" 150#	232	24	30.5	60.13	33.35	48	48.25	32.55	551.88	1.98	8	
CO2 MVI-75-2	3354208	5	575V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	36.77	724.64	4.72	12.2	
CO2 MVI-75-3	3354209	5	575V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	37.94	730.64	4.72	12.2	
CO2 MVI-75-4	3354210	7.5	575V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	42.55	857.04	6.94	17.6	
CO2 MVI-75-5	3354211	10	575V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	45.87	921.04	9.2	23.8	
CO2 MVI-75-6	3354212	10	575V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	46.95	927.04	9.2	23.8	
CO2 MVI-75-7	3354213	15	575V	~3	4" 150#	232	38	47	60.13	49.85	48	48.69	54.81	1279.11	13.8	32.4	
CO2 MVI-75-8	3354214	15	575V	~3	4" 150#	232	38	47	56.58	49.85	47.5	48.3	56.58	1284.85	13.8	32.4	

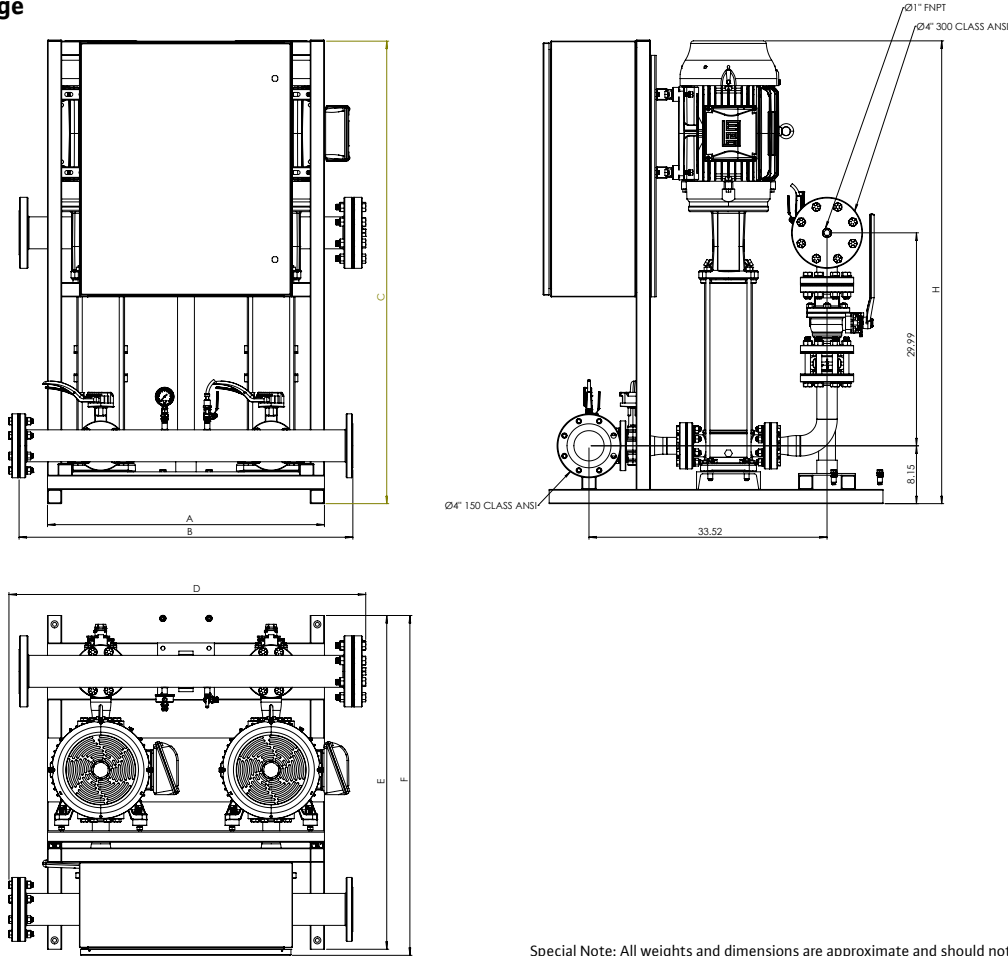
# Submittal Data Sheet

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



### CO2 MVI-75

#### 300# Discharge



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

### CO2 MVI-75

CO2 MVI-75																TEFC Motor Data (Per Motor)	
Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	System Weight (Lbs)	Dimensions - Inches (in)		
															Motor FLA (per pump)	System FLA	
CO2 MVI-75-9	3353237	15	208V-230V	~3	4" 300#	363	38	47	65.13	50.24	47	47.11	58.35	1483.57	38.5-34.8	83-77.4	
CO2 MVI-75-10	3353238	20	208V-230V	~3	4" 300#	363	42	47	70.13	50.24	47	49.09	60.12	1444.7	50.2-45.4	106.4	
CO2 MVI-75-12	3353239	25	208V-230V	~3	4" 300#	363	42	47	70.13	50.24	47	49.59	65.17	1597.66	63.0-57.6	131	
CO2 MVI-75-9	3353726	15	460V	~3	4" 300#	363	38	47	60.13	50.24	47	47	58.35	1402.1	17.4	37.8	
CO2 MVI-75-10	3353727	20	460V	~3	4" 300#	363	38	47	60.13	50.24	47	47	60.12	1424.1	22.7	50.4	
CO2 MVI-75-12	3353728	25	460V	~3	4" 300#	363	39	47	65.13	50.24	47	47.86	65.17	1660.4	28.8	59.6	
CO2 MVI-75-9	3354215	15	575V	~3	4" 300#	363	38	47	60.13	50.24	47	47	58.35	1395.87	13.8	32.4	
CO2 MVI-75-10	3354216	20	575V	~3	4" 300#	363	38	47	60.13	50.24	47	47	60.12	1417.57	18.2	43.8	
CO2 MVI-75-12	3354217	25	575V	~3	4" 300#	363	42	47	70.13	50.24	47	49.59	65.17	1583.66	23	52.4	

# Submittal Data Sheet

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

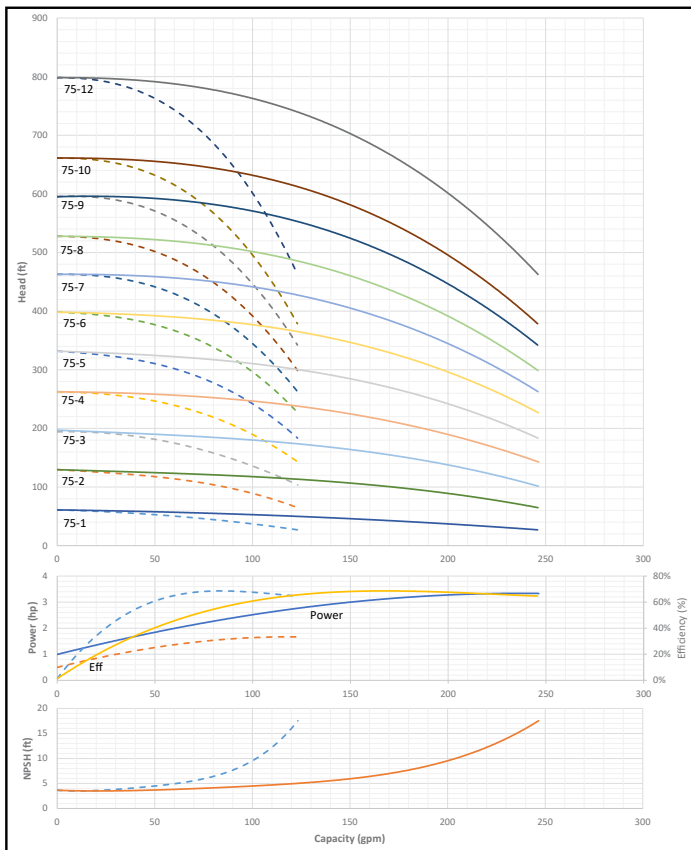


### CO2 MVI-1SB-75



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-1SB-75				1			3600



#### Applications

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

#### 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

#### 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

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

Approval Stamp

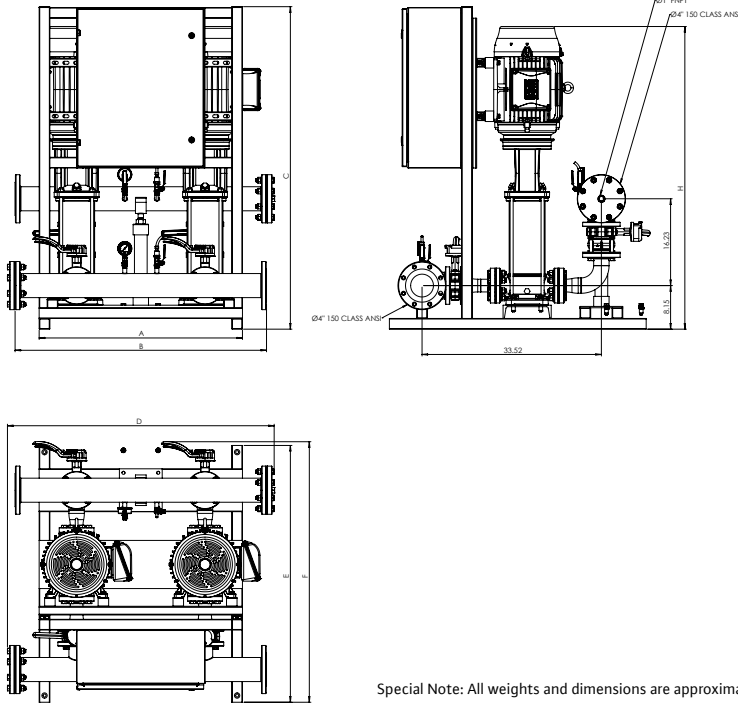
# Submittal Data Sheet

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



### CO2 MVI-1SB-75

#### 150# Discharge



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

### CO2 MVI-1SB-75

#### TEFC Motor Data (Per Motor)

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	TEFC Motor Data (Per Motor)	
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	Motor FLA (per pump)		System FLA	
CO2 MVI-1SB-75-1	3354741	2	208V-230V	~1 IN / ~3 OUT	3" 150#	232	24	28.75	60.13	31.6	45.5	47.44	32.55	531.35	5.46-4.94	31.4	
CO2 MVI-1SB-75-1	3354778	2	208V-230V	~3	3" 150#	232	24	28.75	60.13	31.6	45.5	47.44	32.55	630.78	5.46-4.94	14.6	
CO2 MVI-1SB-75-2	3354779	5	208V-230V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.94	36.77	809.64	13.1-11.8	31.4	
CO2 MVI-1SB-75-3	3354780	5	208V-230V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.94	37.94	815.64	13.1-11.8	31.4	
CO2 MVI-1SB-75-4	3354781	7.5	208V-230V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.94	42.55	959.84	19.2-17.3	43-37	
CO2 MVI-1SB-75-5	3354782	10	208V-230V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.7	45.87	892.62	25.4-23	57.6-49	
CO2 MVI-1SB-75-6	3354783	10	208V-230V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.7	46.95	898.62	25.4-23	57.6-49	
CO2 MVI-1SB-75-7	3354784	15	208V-230V	~3	3" 150#	232	38	46	60.13	48.85	45.5	48.3	54.81	1346.2	38.5-34.8	83-77.4	
CO2 MVI-1SB-75-8	3354785	15	208V-230V	~3	3" 150#	232	38	46	60.13	48.85	45.5	48.3	56.58	1352.2	38.5-34.8	83-77.4	
CO2 MVI-1SB-75-1	3355068	2	460V	~3	3" 150#	232	24	28.75	60.13	31.6	45.5	47.44	32.55	531.35	2.47	7.8	
CO2 MVI-1SB-75-2	3355069	5	460V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.94	36.77	704.02	5.9	17.4	
CO2 MVI-1SB-75-3	3355070	5	460V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.94	37.94	710.02	5.9	17.4	
CO2 MVI-1SB-75-4	3355071	7.5	460V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.94	42.55	832.62	8.67	34.2	
CO2 MVI-1SB-75-5	3355072	10	460V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.7	45.87	892.62	11.5	29	
CO2 MVI-1SB-75-6	3355073	10	460V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.7	46.95	898.62	11.5	29	
CO2 MVI-1SB-75-7	3355074	15	460V	~3	3" 150#	232	38	46	60.13	48.85	45.5	48.3	54.81	1268.57	17.4	37.8	
CO2 MVI-1SB-75-8	3355075	15	460V	~3	3" 150#	232	38	46	60.13	48.85	45.5	48.3	56.58	1274.57	17.4	37.8	
CO2 MVI-1SB-75-1	3355358	2	575V	~3	3" 150#	232	24	28.75	60.13	31.6	45.5	47.44	32.55	531.35	1.98	8	
CO2 MVI-1SB-75-2	3355359	5	575V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.94	36.77	704.22	4.72	12.2	
CO2 MVI-1SB-75-3	3355360	5	575V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.94	37.94	710.22	4.72	12.2	
CO2 MVI-1SB-75-4	3355361	7.5	575V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.94	42.55	836.62	6.94	17.6	
CO2 MVI-1SB-75-5	3355362	10	575V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.7	45.87	900.62	9.2	23.8	
CO2 MVI-1SB-75-6	3355363	10	575V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.7	46.95	906.62	9.2	23.8	
CO2 MVI-1SB-75-7	3355364	15	575V	~3	3" 150#	232	38	46	60.13	48.85	45.5	48.3	54.81	1258.2	13.8	32.4	
CO2 MVI-1SB-75-8	3355365	15	575V	~3	3" 150#	232	38	46	60.13	48.85	45.5	48.3	56.58	1264.2	13.8	32.4	

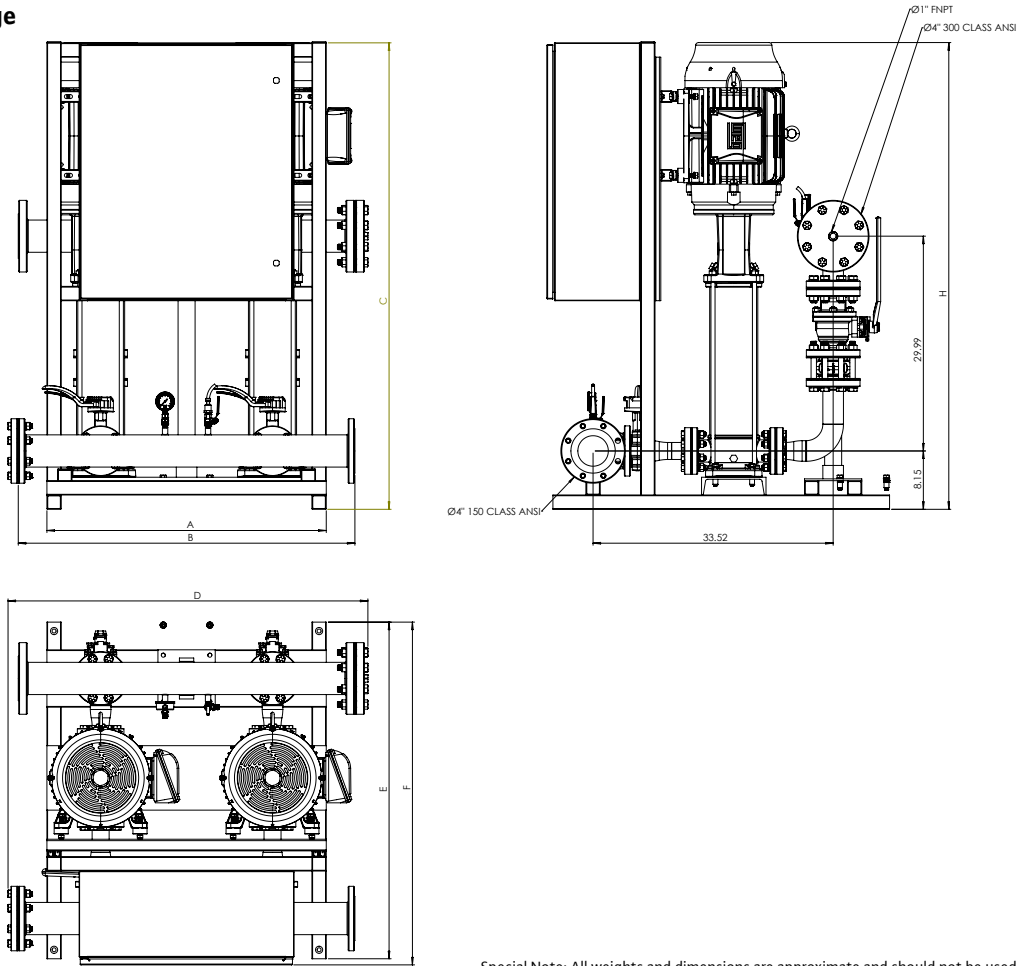
# Submittal Data Sheet

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



### CO2 MVI-1SB-75

#### 300# Discharge



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

### CO2 MVI-1SB-75

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (Psi)	Dimensions - Inches (in)								TEFC Motor Data (Per Motor)	
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	System Weight (Lbs)	Motor FLA (per pump)	System FLA
CO2 MVI-1SB-75-9	3354786	15	208V-230V	~3	3" 300#	363	40	46	65.13	49.11	44.5	45.61	58.35	1462.72	38.5-34.8	83-77.4
CO2 MVI-1SB-75-10	3354787	20	208V-230V	~3	3" 300#	363	42	46	70.13	49.11	44.5	48.6	60.17	1418.17	50.2-45.4	106.4
CO2 MVI-1SB-75-12	3354788	25	208V-230V	~3	3" 300#	363	42	46	70.13	49.11	44.5	48.6	65.17	1571.14	63.0-57.6	131
CO2 MVI-1SB-75-9	3355076	15	460V	~3	3" 300#	363	38	46	60.13	49.11	45	45	58.35	1375.83	17.4	37.8
CO2 MVI-1SB-75-10	3355077	20	460V	~3	3" 300#	363	38	46	60.13	49.11	45	45	60.12	1397.83	22.7	50.4
CO2 MVI-1SB-75-12	3355078	25	460V	~3	3" 300#	363	40	46	65.13	49.11	44.5	46.61	65.17	1636.72	28.8	59.6
CO2 MVI-1SB-75-9	3355366	15	575V	~3	3" 300#	363	40	46	65.13	49.11	44.5	45.86	58.35	1374.72	13.8	32.4
CO2 MVI-1SB-75-10	3355367	20	575V	~3	3" 300#	363	40	46	65.13	49.11	44.5	45.86	60.14	1396.72	18.2	43.8
CO2 MVI-1SB-75-12	3355368	25	575V	~3	3" 300#	363	42	46	70.13	49.11	44.5	48.6	65.17	1557.14	23	52.4

# Submittal Data Sheet

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

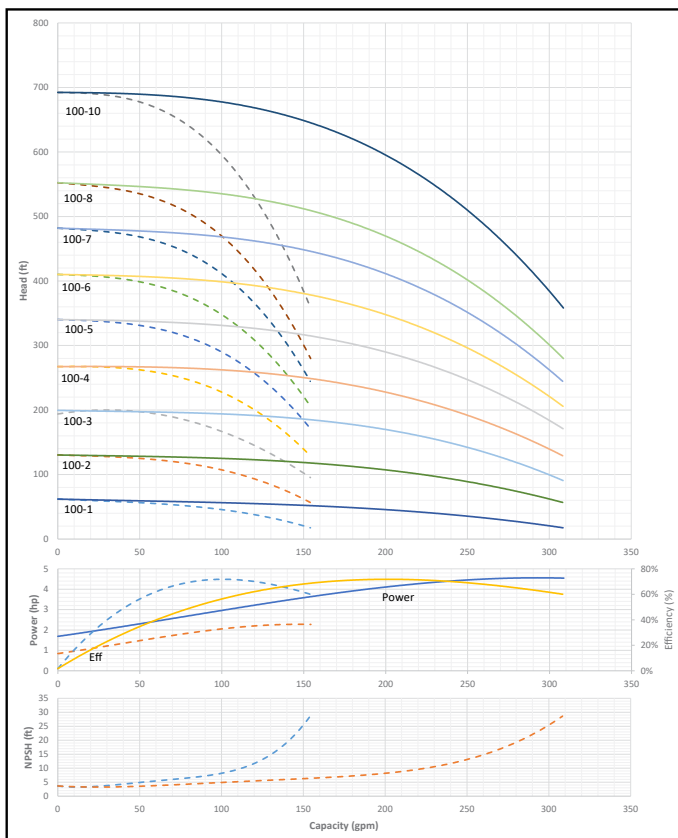


### CO2 MVI-100



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-100				1			3600



#### Applications

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

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

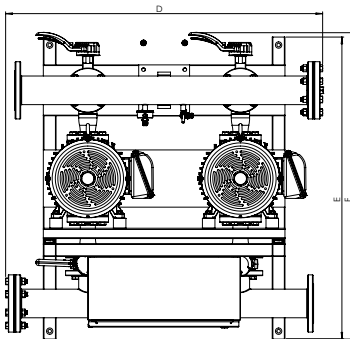
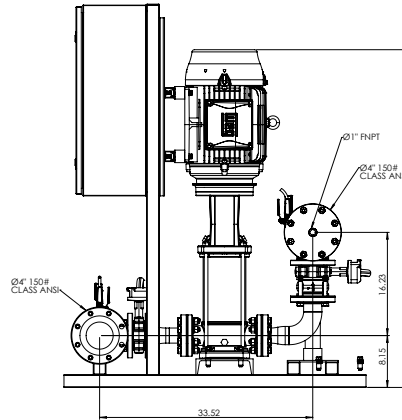
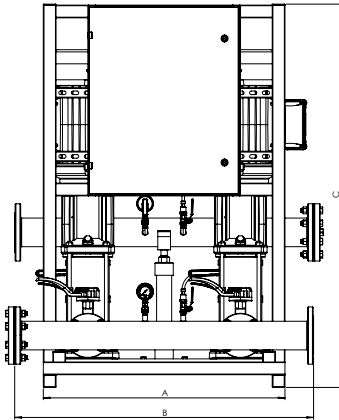
# Submittal Data Sheet

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



### CO2 MVI-100

#### 150# Discharge



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

### CO2 MVI-100

#### TEFC Motor Data (Per Motor)

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	Motor FLA (per pump)		System FLA
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	(A)				
CO2 MVI-100-1	3353051	3	208V-230V	~1 IN / ~3 OUT	4" 150#	232	28	32.75	60.13	35.6	48	48.44	35.25	692.04	8.12-7.34	31.4		
CO2 MVI-100-1	3353240	3	208V-230V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	35.25	797.67	8.12-7.34	20.2		
CO2 MVI-100-2	3353241	5	208V-230V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	36.84	830.07	13.1-11.8	31.4		
CO2 MVI-100-3	3353242	7.5	208V-230V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	40.85	972.98	19.2-17.3	43-37		
CO2 MVI-100-4	3353243	10	208V-230V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	44.18	905.75	25.4-23	57.6-49		
CO2 MVI-100-5	3353244	15	208V-230V	~3	4" 150#	232	38	47	60.13	49.85	48.5	49.19	51.34	1354.72	38.5-34.8	83-77.4		
CO2 MVI-100-6	3353245	15	208V-230V	~3	4" 150#	232	38	47	60.13	49.85	48.5	49.19	53.11	1360.72	38.5-34.8	83-77.4		
CO2 MVI-100-7	3353246	20	208V-230V	~3	4" 150#	232	42	47	70.13	49.58	47.5	50.28	54.89	1324.54	50.2-45.4	106.4		
CO2 MVI-100-1	3353729	3	460V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	35.25	692.04	3.67	10.6		
CO2 MVI-100-2	3353730	5	460V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	36.84	724.44	5.9	17.4		
CO2 MVI-100-3	3353731	7.5	460V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	40.85	845.75	8.67	34.2		
CO2 MVI-100-4	3353732	10	460V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	44.18	905.75	11.5	29		
CO2 MVI-100-5	3353733	15	460V	~3	4" 150#	232	38	47	60.13	49.85	47.5	48.19	51.34	1275.94	17.4	37.8		
CO2 MVI-100-6	3353734	15	460V	~3	4" 150#	232	38	47	60.13	49.85	47.5	48.19	53.11	1281.94	17.4	37.8		
CO2 MVI-100-7	3353735	20	460V	~3	4" 150#	232	38	47	60.13	49.85	47.5	48.19	54.89	1303.94	22.7	50.4		
CO2 MVI-100-1	3354218	3	575V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	35.25	692.44	2.9	8		
CO2 MVI-100-2	3354219	5	575V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	36.84	724.64	4.72	12.2		
CO2 MVI-100-3	3354220	7.5	575V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	40.85	849.75	6.94	17.6		
CO2 MVI-100-4	3354221	10	575V	~3	4" 150#	232	28	32.75	60.13	35.6	48	48.44	44.18	913.75	9.2	23.8		
CO2 MVI-100-5	3354222	15	575V	~3	4" 150#	232	38	47	60.13	49.85	48.5	49.19	51.34	1266.72	13.8	32.4		
CO2 MVI-100-6	3354223	15	575V	~3	4" 150#	232	38	47	60.13	49.85	48.5	49.19	53.11	1272.72	13.8	32.4		
CO2 MVI-100-7	3354224	20	575V	~3	4" 150#	232	38	47	60.13	49.85	48.5	49.19	54.89	1294.72	18.2	43.8		



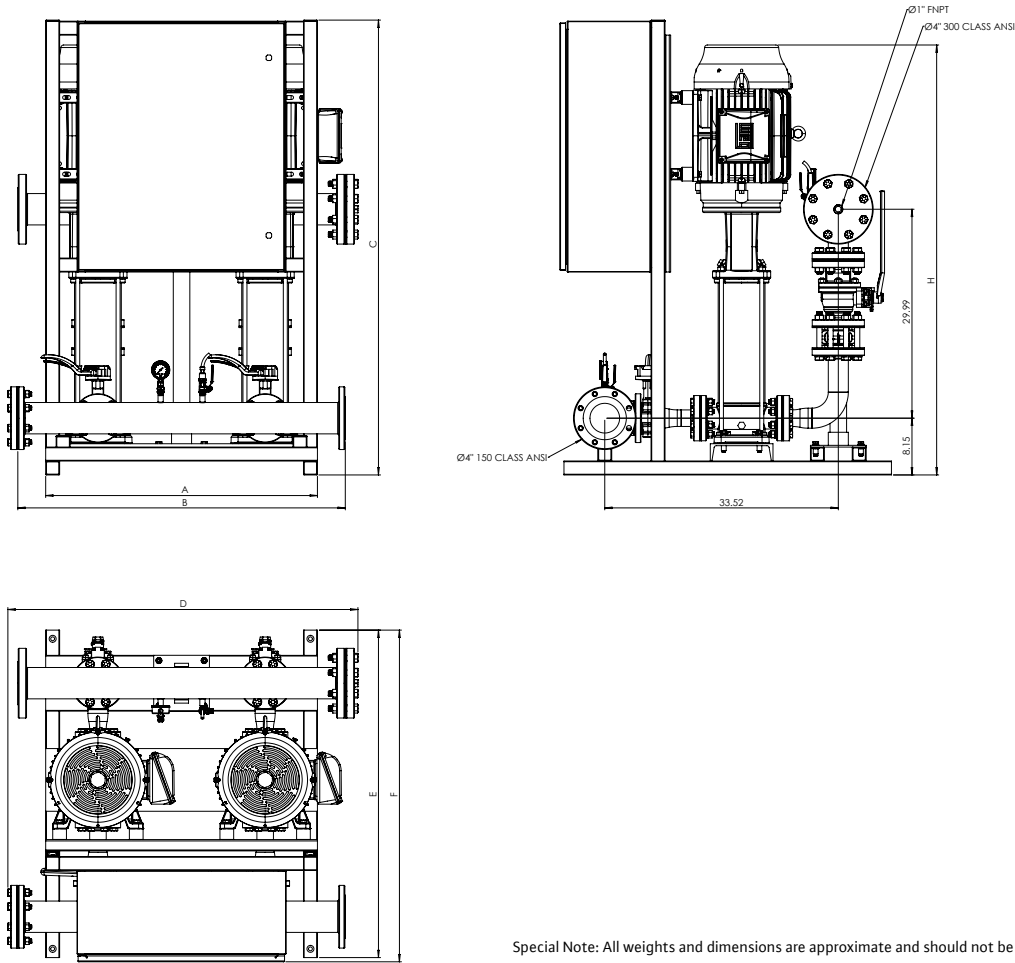
# Submittal Data Sheet

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



### CO2 MVI-100

#### 300# Discharge



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

### CO2 MVI-100

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (In)								TEFC Motor Data (Per Motor)	
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	System Weight (Lbs)	Motor FLA (per pump)	System FLA
CO2 MVI-100-8	3353247	20	208V-230V	~3	4" 300#	363	42	47	70.13	50.24	47	49.09	56.66	1430.7	50.2-45.4	106.4
CO2 MVI-100-10	3353248	25	208V-230V	~3	4" 300#	363	42	47	70.13	50.24	47	49.59	61.71	1585.02	63.0-57.6	131
CO2 MVI-100-8	3353736	20	460V	~3	4" 300#	363	38	47	60.13	50.24	47	47	56.66	1410.1	22.7	50.4
CO2 MVI-100-10	3353737	25	460V	~3	4" 300#	363	39	47	65.13	50.24	47	47.61	61.71	1648.4	28.8	59.6
CO2 MVI-100-8	3354225	20	575V	~3	4" 300#	363	39	47	65.13	50.24	47	47.11	56.66	1405.76	18.2	43.8
CO2 MVI-100-10	3354226	25	575V	~3	4" 300#	363	42	47	70.13	50.24	47	49.59	61.71	1571.02	23	52.4

# Submittal Data Sheet

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

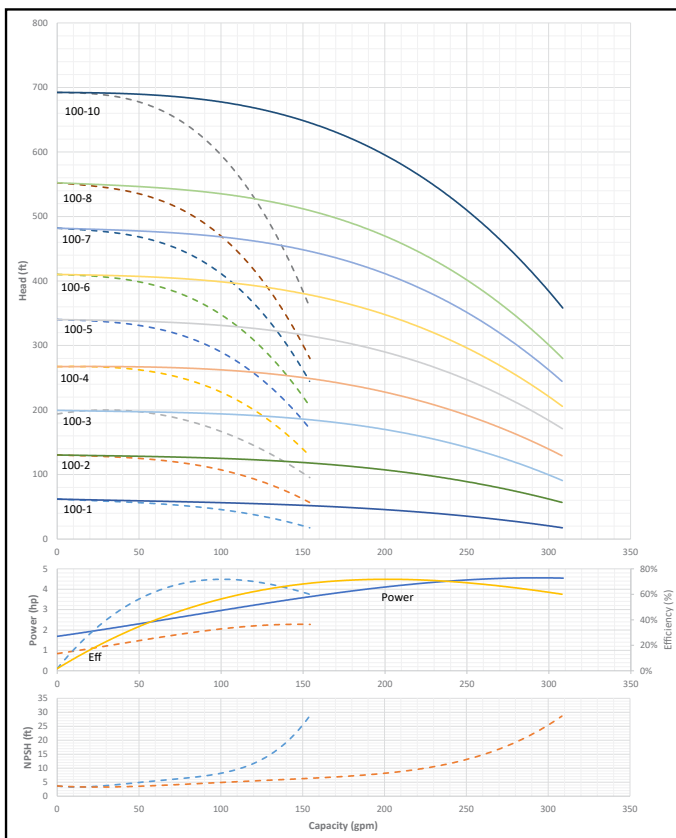


### CO2 MVI-1SB-100



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-1SB-100				1			3600



#### Applications

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

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

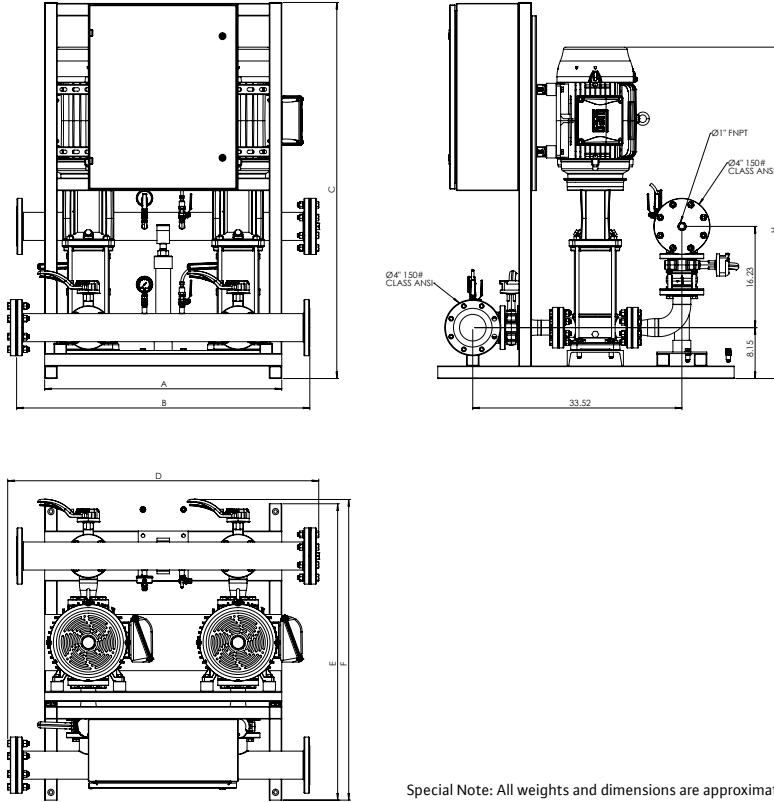
# Submittal Data Sheet

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



### CO2 MVI-1SB-100

#### 150# Discharge



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

### CO2 MVI-1SB-100

#### TEFC Motor Data (Per Motor)

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	Motor FLA (per pump)	System FLA
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	(A)			
CO2 MVI-1SB-100-1	3354742	3	208V-230V	~1 IN / ~3 OUT	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	35.25	670.33	8.12-7.34	31.4	
CO2 MVI-1SB-100-1	3354789	3	208V-230V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	35.25	775.96	8.12-7.34	20.2	
CO2 MVI-1SB-100-2	3354790	5	208V-230V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	36.84	808.36	13.1-11.8	31.4	
CO2 MVI-1SB-100-3	3354791	7.5	208V-230V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	40.85	952.56	19.2-17.3	43-37	
CO2 MVI-1SB-100-4	3354792	10	208V-230V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	44.18	885.33	25.4-23	57.6-49	
CO2 MVI-1SB-100-5	3354793	15	208V-230V	~3	3" 150#	232	38	46	60.13	48.85	45.5	48.3	51.34	1333.56	38.5-34.8	83-77.4	
CO2 MVI-1SB-100-6	3354794	15	208V-230V	~3	3" 150#	232	38	46	60.13	48.85	45.5	48.3	53.11	1339.56	38.5-34.8	83-77.4	
CO2 MVI-1SB-100-7	3354795	20	208V-230V	~3	3" 150#	232	42	46	70.13	48.85	45.5	50.28	54.89	1303.89	50.2-45.4	106.4	
CO2 MVI-1SB-100-1	3355079	3	460V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	35.25	670.33	3.67	10.6	
CO2 MVI-1SB-100-2	3355080	5	460V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	36.84	702.73	5.9	17.4	
CO2 MVI-1SB-100-3	3355081	7.5	460V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	40.85	825.33	8.67	34.2	
CO2 MVI-1SB-100-4	3355082	10	460V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	44.18	885.33	11.5	29	
CO2 MVI-1SB-100-5	3355083	15	460V	~3	3" 150#	232	38	46	60.13	48.85	45.5	47.69	51.34	1256.57	17.4	37.8	
CO2 MVI-1SB-100-6	3355084	15	460V	~3	3" 150#	232	38	46	60.13	48.85	45.5	47.69	53.11	1262.57	17.4	37.8	
CO2 MVI-1SB-100-7	3355085	20	460V	~3	3" 150#	232	38	46	60.13	48.85	45.5	47.69	54.89	1283.29	22.7	50.4	
CO2 MVI-1SB-100-1	3355369	3	575V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	35.25	670.73	2.9	8	
CO2 MVI-1SB-100-2	3355370	5	575V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	36.84	702.93	4.72	12.2	
CO2 MVI-1SB-100-3	3355371	7.5	575V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	40.85	829.33	6.94	17.6	
CO2 MVI-1SB-100-4	3355372	10	575V	~3	3" 150#	232	28	32.75	60.13	35.6	45.5	47.44	44.18	893.33	9.2	23.8	
CO2 MVI-1SB-100-5	3355373	15	575V	~3	3" 150#	232	38	46	60.13	48.85	45.5	47.69	51.34	1245.56	13.8	32.4	
CO2 MVI-1SB-100-6	3355374	15	575V	~3	3" 150#	232	38	46	60.13	48.85	45.5	47.69	53.11	1251.56	13.8	32.4	
CO2 MVI-1SB-100-7	3355375	20	575V	~3	3" 150#	232	38	46	60.13	48.85	45.5	47.69	54.89	1273.56	18.2	43.8	

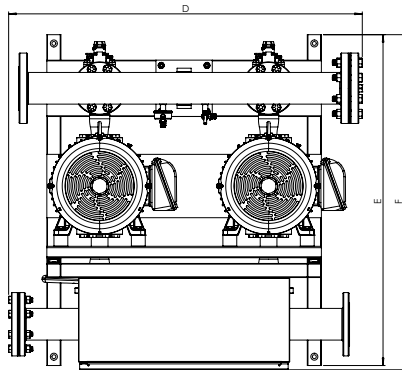
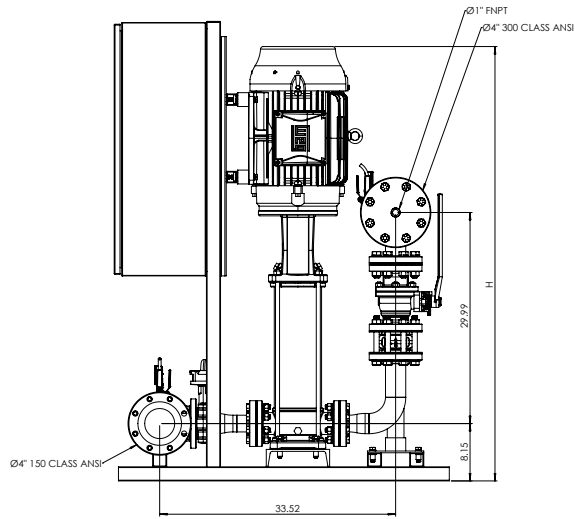
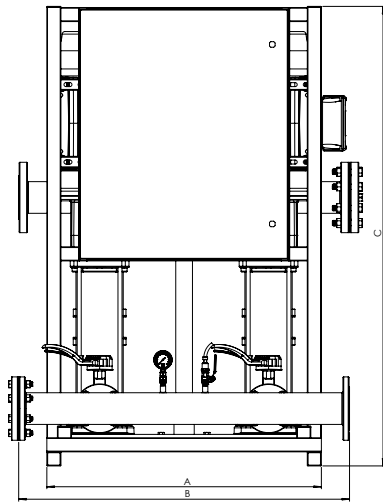
# Submittal Data Sheet

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



### CO2 MVI-1SB-100

#### 300# Discharge



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

### CO2 MVI-1SB-100

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)								System Weight (Lbs)	TEFC Motor Data (Per Motor)	
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	Motor FLA (per pump)		System FLA	
CO2 MVI-1SB-100-8	3354796	20	208V-230V	~3	3" 300#	363	42	46	70.13	49.11	44.5	47.85	56.66	1404.17	50.2-45.4	106.4	
CO2 MVI-1SB-100-10	3354797	25	208V-230V	~3	3" 300#	363	42	46	70.13	49.11	44.5	48.6	61.75	1558.5	63.0-57.6	131	
CO2 MVI-1SB-100-8	3355086	20	460V	~3	3" 300#	363	40	46	65.13	49.11	44.5	45.86	56.66	1389.25	22.7	50.4	
CO2 MVI-1SB-100-10	3355087	25	460V	~3	3" 300#	363	40	46	65.13	49.11	44.5	46.61	61.71	1624.07	28.8	59.6	
CO2 MVI-1SB-100-8	3355376	20	575V	~3	3" 300#	363	40	46	65.13	49.11	44.5	45.86	56.66	1382.72	18.2	43.8	
CO2 MVI-1SB-100-10	3355377	25	575V	~3	3" 300#	363	42	46	70.13	49.11	44.5	48.6	61.75	1544.5	23	52.4	