

# Submittal Data Sheet

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

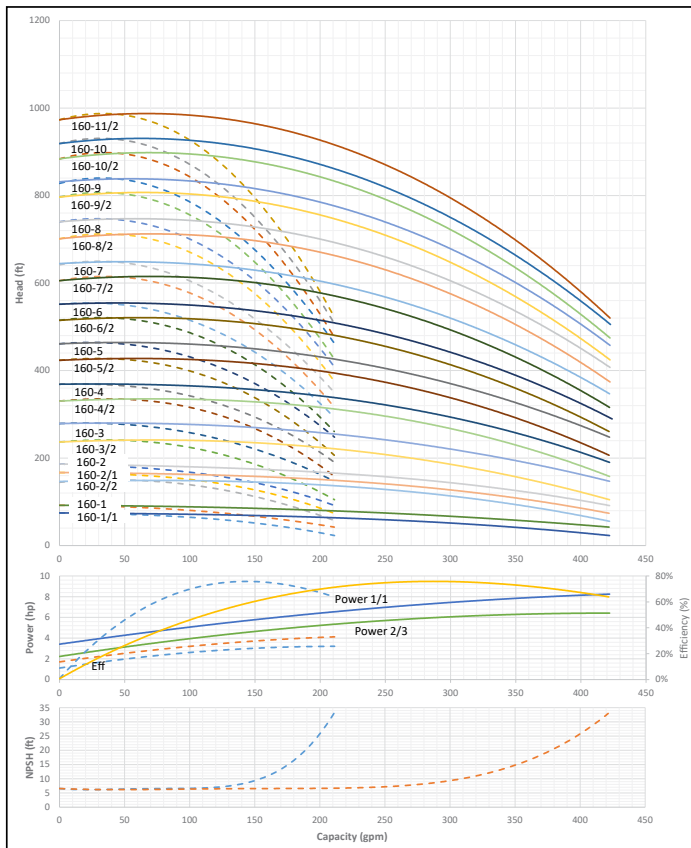


### CO2 MVI-160



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-160				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

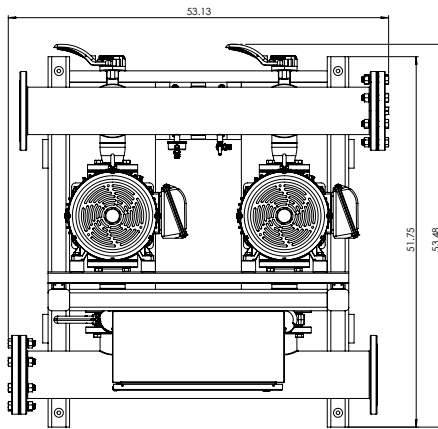
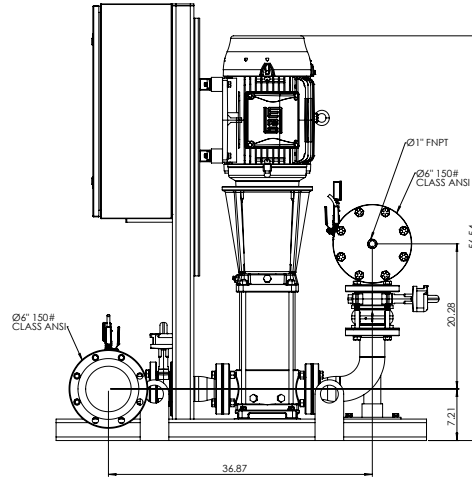
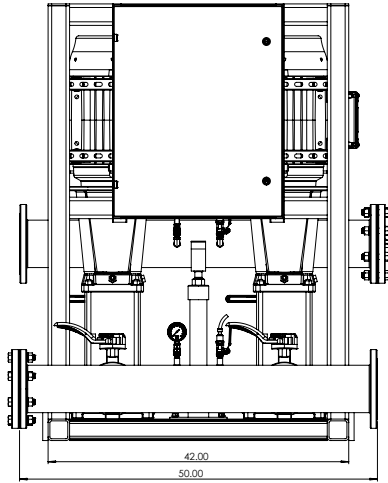
# Submittal Data Sheet

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



### CO2 MVI-160

#### 150# Discharge



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

### CO2 MVI-160

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-160-1/1	3353052	3	208V-230V	~1 IN / ~3 OUT	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	36.48	1059.7	8.12-7.34	31.4	
CO2 MVI-160-1/1	3353249	3	208V-230V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	36.48	1165.32	8.12-7.34	20.2	
CO2 MVI-160-1	3353250	5	208V-230V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	38.06	1195.72	13.1-11.8	31.4	
CO2 MVI-160-2/2	3353251	7.5	208V-230V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	42.51	1333.22	19.2-17.3	43-37	
CO2 MVI-160-2/1	3353252	7.5	208V-230V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	42.51	1333.22	19.2-17.3	43-37	
CO2 MVI-160-2	3353253	7.5	208V-230V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	42.51	1333.22	19.2-17.3	43-37	
CO2 MVI-160-3/2	3353254	10	208V-230V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	46.81	1400.52	25.4-23	57.6-49	
CO2 MVI-160-3/2	3353255	15	208V-230V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	53.72	1830.88	38.5-34.8	83-77.4	
CO2 MVI-160-4/2	3353256	15	208V-230V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	56.47	1843.92	38.5-34.8	83-77.4	
CO2 MVI-160-4	3353257	15	208V-230V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	56.47	1844.1	38.5-34.8	83-77.4	
CO2 MVI-160-5/2	3353258	20	208V-230V	~3	6" 150#	232	52	50	67	53.13	51.75	53.44	59.23	2045.42	50.2-45.4	106.4	
CO2 MVI-160-5	3353259	20	208V-230V	~3	6" 150#	232	52	50	67	53.13	51.75	53.44	59.23	2045.86	50.2-45.4	106.4	
CO2 MVI-160-1/1	3353738	3	460V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	36.48	1159.12	3.67	10.6	
CO2 MVI-160-1	3353739	5	460V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	38.06	1195.72	5.9	17.4	
CO2 MVI-160-2/2	3353740	7.5	460V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	42.51	1311.62	8.67	34.2	
CO2 MVI-160-2/1	3353741	7.5	460V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	42.51	1311.62	8.67	34.2	

# Submittal Data Sheet

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



CO2 MVI-160 150# 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-160-2	3353742	7.5	460V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	42.51	1311.62	8.67	34.2
CO2 MVI-160-3/2	3353743	10	460V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	46.81	1378.92	11.5	29
CO2 MVI-160-3/2	3353744	15	460V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	53.72	1790.96	17.4	37.8
CO2 MVI-160-4/2	3353745	15	460V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	56.47	1804	17.4	37.8
CO2 MVI-160-4	3353746	15	460V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	56.47	1804.18	17.4	37.8
CO2 MVI-160-5/2	3353747	20	460V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	59.23	1833.4	22.7	50.4
CO2 MVI-160-5	3353748	20	460V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	59.23	1833.84	22.7	50.4
CO2 MVI-160-1/1	3354227	3	575V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	36.48	1181.72	2.9	8
CO2 MVI-160-1	3354228	5	575V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	38.06	1211.92	4.72	12.2
CO2 MVI-160-2/2	3354229	7.5	575V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	42.51	1331.62	6.94	17.6
CO2 MVI-160-2/1	3354230	7.5	575V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	42.51	1331.62	6.94	17.6
CO2 MVI-160-2	3354231	7.5	575V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	42.51	1331.62	6.94	17.6
CO2 MVI-160-3/2	3354232	10	575V	~3	6" 150#	232	33.75	41.75	61	44.88	51.75	53.44	46.81	1402.92	9.2	23.8
CO2 MVI-160-3/2	3354233	15	575V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	53.72	1744.08	13.8	32.4
CO2 MVI-160-4/2	3354234	15	575V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	56.47	1757.12	13.8	32.4
CO2 MVI-160-4	3354235	15	575V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	56.47	1757.3	13.8	32.4
CO2 MVI-160-5/2	3354236	20	575V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	59.23	1786.52	18.2	43.8
CO2 MVI-160-5	3354237	20	575V	~3	6" 150#	232	42	50	61	53.13	51.75	53.44	59.23	1786.96	18.2	43.8

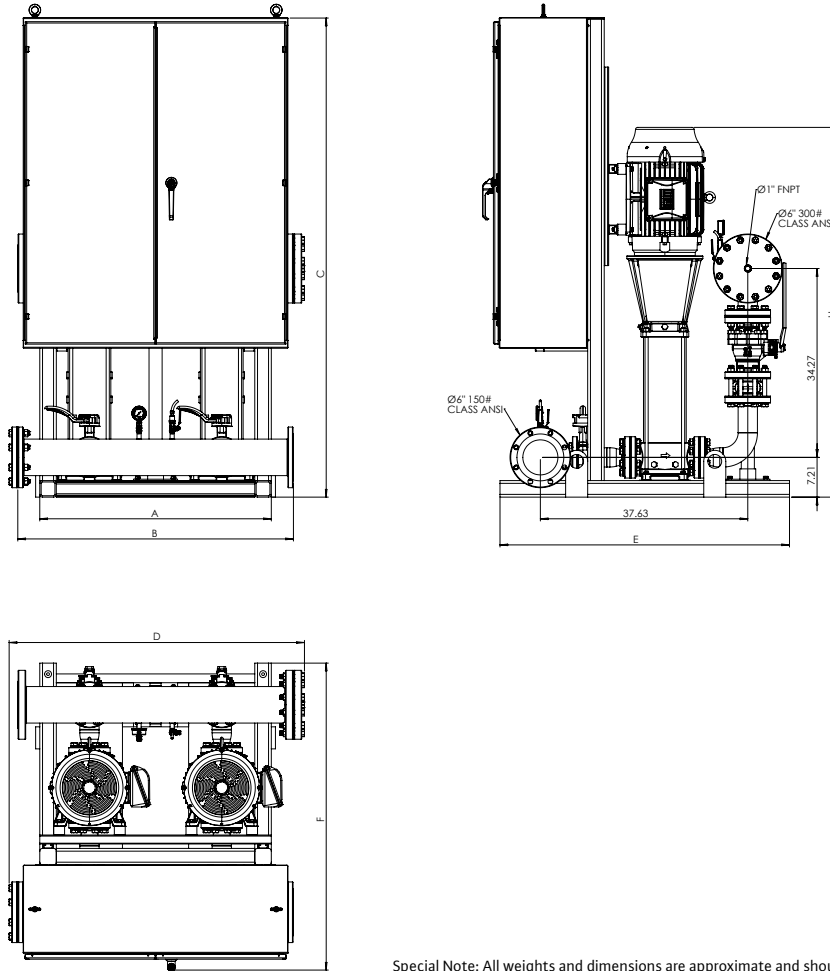
# Submittal Data Sheet

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



### CO2 MVI-160

#### 300# Discharge



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

CO2 MVI-160															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-160-6/2	3353260	25	208V-230V	~3	6" 300#	435	42	50	67	53.57	52.51	52.51	64.24	2396.04	63.0-57.6	131	
CO2 MVI-160-6	3353261	25	208V-230V	~3	6" 300#	435	42	50	67	53.57	52.51	52.51	64.24	2396.48	63.0-57.6	131	
CO2 MVI-160-7/2	3353262	30	208V-230V	~3	6" 300#	435	42	50	87	53.57	52.51	55.69	67	2821.69	76.7-68.4	153	
CO2 MVI-160-7	3353263	30	208V-230V	~3	6" 300#	435	42	50	87	53.57	52.51	55.69	67	2822.13	76.7-68.4	153	
CO2 MVI-160-8/2	3353264	30	208V-230V	~3	6" 300#	435	42	50	87	53.57	52.51	55.69	69.75	2836.05	76.7-68.4	153	
CO2 MVI-160-8	3353265	40	208V-230V	~3	6" 300#	435	45	53	87	56.57	52.62	56.7	72.3	3152.74	101-92.6	208.4	
CO2 MVI-160-9/2	3353266	40	208V-230V	~3	6" 300#	435	45	53	87	56.57	52.62	56.7	75.06	3164.74	101-92.6	208.4	
CO2 MVI-160-9	3353267	40	208V-230V	~3	6" 300#	435	45	53	87	56.57	52.62	56.7	75.06	3164.74	101-92.6	208.4	
CO2 MVI-160-10/2	3353268	40	208V-230V	~3	6" 300#	435	45	53	87	56.57	52.62	56.7	77.82	3176.74	101-92.6	208.4	
CO2 MVI-160-10	3353269	40	208V-230V	~3	6" 300#	435	45	53	87	56.57	52.62	56.7	77.82	3176.74	101-92.6	208.4	
CO2 MVI-160-11/2	3353270	40	208V-230V	~3	6" 300#	435	45	53	87	56.57	52.62	56.7	80.57	3188.74	101-92.6	208.4	
CO2 MVI-160-6/2	3353749	25	460V	~3	6" 300#	435	42	50	61	53.57	52.51	52.51	64.24	2221.39	28.8	59.6	
CO2 MVI-160-6	3353750	25	460V	~3	6" 300#	435	42	50	61	53.57	52.51	52.51	64.24	2221.83	28.8	59.6	
CO2 MVI-160-7/2	3353751	30	460V	~3	6" 300#	435	42	50	63	53.57	52.51	52.51	67	2258.72	34.2	70.2	
CO2 MVI-160-7	3353752	30	460V	~3	6" 300#	435	42	50	63	53.57	52.51	52.51	67	2259.16	34.2	70.2	
CO2 MVI-160-8/2	3353753	30	460V	~3	6" 300#	435	42	50	66	53.57	52.51	52.51	69.75	2277.46	34.2	70.2	
CO2 MVI-160-8	3353754	40	460V	~3	6" 300#	435	45	53	68	56.57	52.26	52.71	72.3	2761.27	46.3	99.4	

# Submittal Data Sheet

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



CO2 MVI-160 300# 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-160-9/2	3353755	40	460V	~3	6" 300#	435	45	53	70	56.57	52.26	52.71	75.06	2776.18	46.3	99.4
CO2 MVI-160-9	3353756	40	460V	~3	6" 300#	435	45	53	70	56.57	52.26	52.71	75.06	2776.18	46.3	99.4
CO2 MVI-160-10/2	3353757	40	460V	~3	6" 300#	435	45	53	73	56.57	52.26	52.71	77.82	2792.56	46.3	99.4
CO2 MVI-160-10	3353758	40	460V	~3	6" 300#	435	45	53	73	56.57	52.26	52.71	77.82	2792.56	46.3	99.4
CO2 MVI-160-11/2	3353759	40	460V	~3	6" 300#	435	45	53	76	56.57	52.26	52.71	80.57	2808.94	46.3	99.4
CO2 MVI-160-6/2	3354238	25	575V	~3	6" 300#	435	42	50	67	53.57	52.51	52.51	64.24	2382.04	23	52.4
CO2 MVI-160-6	3354239	25	575V	~3	6" 300#	435	42	50	67	53.57	52.51	52.51	64.24	2382.48	23	52.4
CO2 MVI-160-7/2	3354240	30	575V	~3	6" 300#	435	42	50	67	53.57	52.51	52.51	67	2433.42	27.4	64
CO2 MVI-160-7	3354241	30	575V	~3	6" 300#	435	42	50	67	53.57	52.51	52.51	67	2433.86	27.4	64
CO2 MVI-160-8/2	3354242	30	575V	~3	6" 300#	435	42	50	67	53.57	52.51	52.51	69.75	2447.78	27.4	64
CO2 MVI-160-8	3354243	40	575V	~3	6" 300#	435	45	53	68	56.57	52.26	52.71	72.3	2769.27	37	86.8
CO2 MVI-160-9/2	3354244	40	575V	~3	6" 300#	435	45	53	70	56.57	52.26	52.71	75.06	2784.18	37	86.8
CO2 MVI-160-9	3354245	40	575V	~3	6" 300#	435	45	53	70	56.57	52.26	52.71	75.06	2784.18	37	86.8
CO2 MVI-160-10/2	3354246	40	575V	~3	6" 300#	435	45	53	73	56.57	52.26	52.71	77.82	2800.56	37	86.8
CO2 MVI-160-10	3354247	40	575V	~3	6" 300#	435	45	53	73	56.57	52.26	52.71	77.82	2800.56	37	86.8
CO2 MVI-160-11/2	3354248	40	575V	~3	6" 300#	435	45	53	76	56.57	52.26	52.71	80.57	2816.94	37	86.8

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

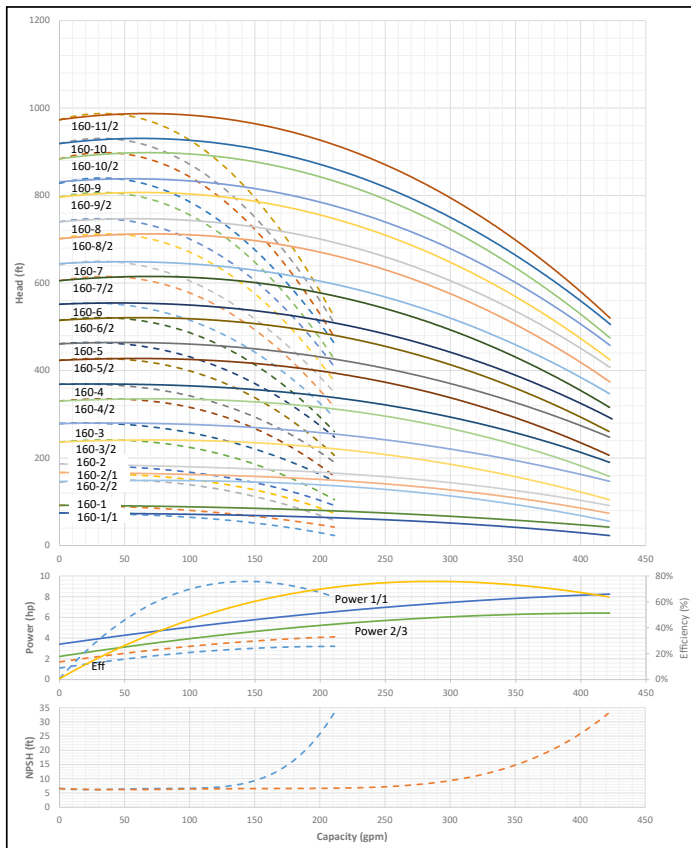


### CO2 MVI-1SB-160



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-160				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

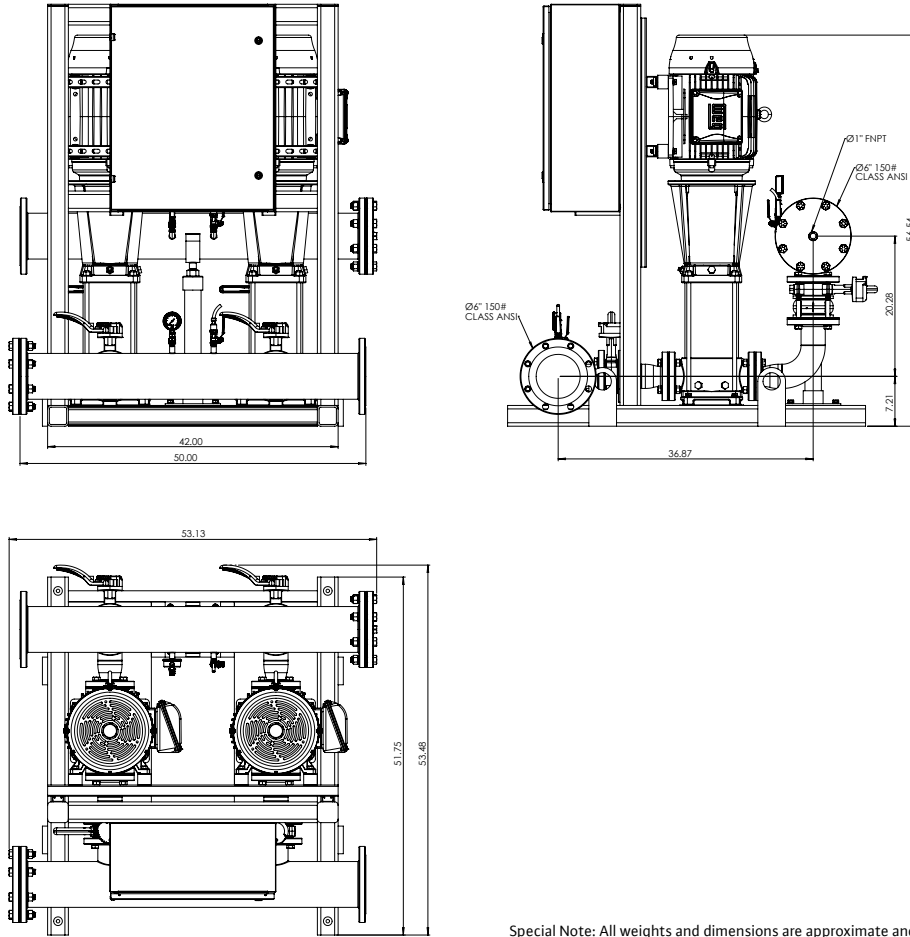
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## Wilo-CO MVI - NSF 61/372 Pressure Boosting System



### CO2 MVI-1SB-160

#### 150# Discharge



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

### CO2 MVI-1SB-160

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-160-1/1	3354743	3	208V-230V	~1 IN / ~3 OUT	3" 150#	232	30	34.75	60.13	37.6	47	49.93	37.97	732.94	8.12-7.34	31.4	
CO2 MVI-1SB-160-1/1	3354798	3	208V-230V	~3	3" 150#	232	30	34.75	60.13	37.6	47	49.93	37.97	838.57	8.12-7.34	20.2	
CO2 MVI-1SB-160-1	3354799	5	208V-230V	~3	3" 150#	232	30	34.75	60.13	37.6	47	49.93	39.55	868.97	13.1-11.8	31.4	
CO2 MVI-1SB-160-2/2	3354800	7.5	208V-230V	~3	3" 150#	232	30	34.75	60.13	37.6	47	50.19	44	1006.47	19.2-17.3	43-37	
CO2 MVI-1SB-160-2/1	3354801	7.5	208V-230V	~3	3" 150#	232	30	34.75	60.13	37.6	47	50.19	44	1006.47	19.2-17.3	43-37	
CO2 MVI-1SB-160-2	3354802	7.5	208V-230V	~3	3" 150#	232	30	34.75	60.13	37.6	47	50.19	44	1006.47	19.2-17.3	43-37	
CO2 MVI-1SB-160-3/2	3354803	10	208V-230V	~3	3" 150#	232	30	34.75	60.13	37.6	47	49.94	48.3	1073.77	25.4-23	57.6-49	
CO2 MVI-1SB-160-3	3354804	15	208V-230V	~3	3" 150#	232	39	47.75	65.13	50.6	47	49.93	55.21	1501.63	38.5-34.8	83-77.4	
CO2 MVI-1SB-160-4/2	3354805	15	208V-230V	~3	3" 150#	232	39	47.75	65.13	50.6	47	49.93	57.96	1514.67	38.5-34.8	83-77.4	
CO2 MVI-1SB-160-4	3354806	15	208V-230V	~3	3" 150#	232	39	47.75	65.13	50.6	47	49.93	57.96	1514.85	38.5-34.8	83-77.4	
CO2 MVI-1SB-160-5/2	3354807	20	208V-230V	~3	3" 150#	232	42	47.75	70.13	50.6	47	51.27	60.72	1719.01	50.2-45.4	106.4	
CO2 MVI-1SB-160-5	3354808	20	208V-230V	~3	3" 150#	232	42	47.75	70.13	50.6	47	51.27	60.72	1719.45	50.2-45.4	106.4	
CO2 MVI-1SB-160-1/1	3355088	3	460V	~3	3" 150#	232	30	34.75	60.13	37.6	47	49.93	37.97	832.37	3.67	10.6	
CO2 MVI-1SB-160-1	3355089	5	460V	~3	3" 150#	232	30	34.75	60.13	37.6	47	49.93	39.55	868.97	5.9	17.4	
CO2 MVI-1SB-160-2/2	3355090	7.5	460V	~3	3" 150#	232	30	34.75	60.13	37.6	47	50.19	44	984.87	8.67	34.2	
CO2 MVI-1SB-160-2/1	3355091	7.5	460V	~3	3" 150#	232	30	34.75	60.13	37.6	47	50.19	44	984.87	8.67	34.2	

# Submittal Data Sheet

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



CO2 MVI-1SB-160 150# 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	System
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)		(A)	FLA
CO2 MVI-1SB-160-2	3355092	7.5	460V	~3	3" 150#	232	30	34.75	60.13	37.6	47	50.19	44	984.87	8.67	34.2
CO2 MVI-1SB-160-3/2	3355093	10	460V	~3	3" 150#	232	30	34.75	60.13	37.6	47	49.94	48.3	1052.17	11.5	29
CO2 MVI-1SB-160-3	3355094	15	460V	~3	3" 150#	232	39	47.75	60.13	50.6	47	49.93	55.21	1457.11	17.4	37.8
CO2 MVI-1SB-160-4/2	3355095	15	460V	~3	3" 150#	232	39	47.75	60.13	50.6	47	49.93	57.96	1470.15	17.4	37.8
CO2 MVI-1SB-160-4	3355096	15	460V	~3	3" 150#	232	39	47.75	60.13	50.6	47	49.93	57.96	1470.33	17.4	37.8
CO2 MVI-1SB-160-5/2	3355097	20	460V	~3	3" 150#	232	39	47.75	60.13	50.6	47	49.93	60.72	1499.55	22.7	50.4
CO2 MVI-1SB-160-5	3355098	20	460V	~3	3" 150#	232	39	47.75	60.13	50.6	47	49.93	60.72	1499.99	22.7	50.4
CO2 MVI-1SB-160-1/1	3355378	3	575V	~3	3" 150#	232	30	34.75	60.13	37.6	47	49.93	37.97	854.97	2.9	8
CO2 MVI-1SB-160-1	3355379	5	575V	~3	3" 150#	232	30	34.75	60.13	37.6	47	49.93	39.55	885.17	4.72	12.2
CO2 MVI-1SB-160-2/2	3355380	7.5	575V	~3	3" 150#	232	30	34.75	60.13	37.6	47	50.19	44	1004.87	6.94	17.6
CO2 MVI-1SB-160-2/1	3355381	7.5	575V	~3	3" 150#	232	30	34.75	60.13	37.6	47	50.19	44	1004.87	6.94	17.6
CO2 MVI-1SB-160-2	3355382	7.5	575V	~3	3" 150#	232	30	34.75	60.13	37.6	47	50.19	44	1004.87	6.94	17.6
CO2 MVI-1SB-160-3/2	3355383	10	575V	~3	3" 150#	232	30	34.75	60.13	37.6	47	49.94	48.3	1076.17	9.2	23.8
CO2 MVI-1SB-160-3	3355384	15	575V	~3	3" 150#	232	39	47.75	65.13	50.6	47	49.93	55.21	1414.83	13.8	32.4
CO2 MVI-1SB-160-4/2	3355385	15	575V	~3	3" 150#	232	39	47.75	65.13	50.6	47	49.93	57.96	1427.87	13.8	32.4
CO2 MVI-1SB-160-4	3355386	15	575V	~3	3" 150#	232	39	47.75	65.13	50.6	47	49.93	57.96	1428.05	13.8	32.4
CO2 MVI-1SB-160-5/2	3355387	20	575V	~3	3" 150#	232	39	47.75	65.13	50.6	47	49.93	60.72	1457.27	18.2	43.8
CO2 MVI-1SB-160-5	3355388	20	575V	~3	3" 150#	232	39	47.75	65.13	50.6	47	49.93	60.72	1457.71	18.2	43.8



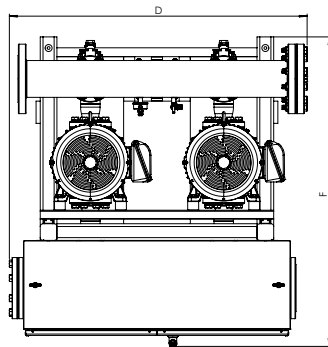
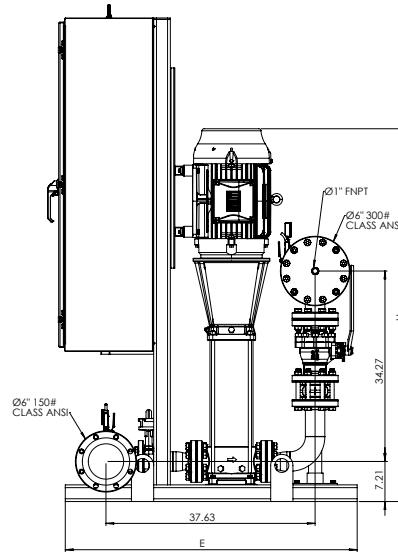
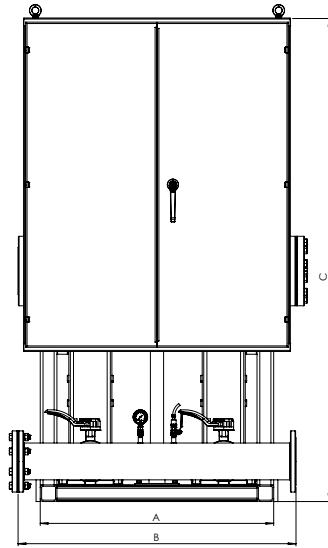
# Submittal Data Sheet

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



### CO2 MVI-1SB-160

#### 300# Discharge



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

CO2 MVI-1SB-160															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-160-6/2	3354809	25	208V-230V	~3	3" 300#	435	42	47.75	70.13	50.86	49	50.09	65.73	2045.41	63.0-57.6	131
CO2 MVI-1SB-160-6	3354810	25	208V-230V	~3	3" 300#	435	42	47.75	70.13	50.86	49	50.09	65.73	2045.85	63.0-57.6	131
CO2 MVI-1SB-160-7/2	3354811	30	208V-230V	~3	3" 300#	435	42	47.75	86.13	50.86	49	54.07	68.49	2449.6	76.7-68.4	153
CO2 MVI-1SB-160-7	3354812	30	208V-230V	~3	3" 300#	435	42	47.75	86.13	50.86	49	54.07	68.49	2450.04	76.7-68.4	153
CO2 MVI-1SB-160-8/2	3354813	30	208V-230V	~3	3" 300#	435	42	47.75	86.13	50.86	49	54.07	71.24	2463.96	76.7-68.4	153
CO2 MVI-1SB-160-8	3354814	40	208V-230V	~3	3" 300#	435	45	49.75	87	52.86	52.26	57.7	72.3	3078.28	101-92.6	208.4
CO2 MVI-1SB-160-9/2	3354815	40	208V-230V	~3	3" 300#	435	45	49.75	87	52.86	52.26	57.7	75.06	3090.28	101-92.6	208.4
CO2 MVI-1SB-160-9	3354816	40	208V-230V	~3	3" 300#	435	45	49.75	87	52.86	52.26	57.7	75.06	3090.28	101-92.6	208.4
CO2 MVI-1SB-160-10/2	3354817	40	208V-230V	~3	3" 300#	435	45	49.75	87	52.86	52.26	57.7	77.82	3102.28	101-92.6	208.4
CO2 MVI-1SB-160-10	3354818	40	208V-230V	~3	3" 300#	435	45	49.75	87	52.86	52.26	57.7	77.82	3102.28	101-92.6	208.4
CO2 MVI-1SB-160-11/2	3354819	40	208V-230V	~3	3" 300#	435	45	49.75	87	52.86	52.26	57.7	80.57	3114.28	101-92.6	208.4
CO2 MVI-1SB-160-6/2	3355099	25	460V	~3	3" 300#	435	39	47.75	65.13	50.86	49	49	65.73	1869.82	28.8	59.6
CO2 MVI-1SB-160-6	3355100	25	460V	~3	3" 300#	435	39	47.75	65.13	50.86	49	49	65.73	1870.26	28.8	59.6
CO2 MVI-1SB-160-7/2	3355101	30	460V	~3	3" 300#	435	39	47.75	65.13	50.86	49	49	68.49	1905.52	34.2	70.2
CO2 MVI-1SB-160-7	3355102	30	460V	~3	3" 300#	435	39	47.75	65.13	50.86	49	49	68.49	1905.96	34.2	70.2
CO2 MVI-1SB-160-8/2	3355103	30	460V	~3	3" 300#	435	39	47.75	65.13	50.86	49	49	71.24	1919.88	34.2	70.2

# Submittal Data Sheet

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



CO2 MVI-1SB-160 300# 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-160-8	3355104	40	460V	~3	3" 300#	435	45	49.75	68	52.86	52.26	52.71	72.3	2686.81	46.3	99.4
CO2 MVI-1SB-160-9/2	3355105	40	460V	~3	3" 300#	435	45	49.75	70	52.86	52.26	52.71	75.06	2701.72	46.3	99.4
CO2 MVI-1SB-160-9	3355106	40	460V	~3	3" 300#	435	45	49.75	70	52.86	52.26	52.71	75.06	2701.72	46.3	99.4
CO2 MVI-1SB-160-10/2	3355107	40	460V	~3	3" 300#	435	45	49.75	73	52.86	52.26	52.71	77.82	2718.1	46.3	99.4
CO2 MVI-1SB-160-10	3355108	40	460V	~3	3" 300#	435	45	49.75	73	52.86	52.26	52.71	77.82	2718.1	46.3	99.4
CO2 MVI-1SB-160-11/2	3355109	40	460V	~3	3" 300#	435	45	49.75	76	52.86	52.26	52.71	80.57	2734.48	46.3	99.4
CO2 MVI-1SB-160-6/2	3355389	25	575V	~3	3" 300#	435	42	47.75	70.13	50.86	49	50.09	65.73	2031.41	23	52.4
CO2 MVI-1SB-160-6	3355390	25	575V	~3	3" 300#	435	42	47.75	70.13	50.86	49	50.09	65.73	2031.85	23	52.4
CO2 MVI-1SB-160-7/2	3355391	30	575V	~3	3" 300#	435	42	47.75	70.13	50.86	49	50.09	68.49	2083.11	27.4	64
CO2 MVI-1SB-160-7	3355392	30	575V	~3	3" 300#	435	42	47.75	70.13	50.86	49	50.09	68.49	2083.55	27.4	64
CO2 MVI-1SB-160-8/2	3355393	30	575V	~3	3" 300#	435	42	47.75	70.13	50.86	49	50.09	71.24	2097.79	27.4	64
CO2 MVI-1SB-160-8	3355394	40	575V	~3	3" 300#	435	45	49.75	68	52.86	52.26	52.71	72.3	2694.81	37	86.8
CO2 MVI-1SB-160-9/2	3355395	40	575V	~3	3" 300#	435	45	49.75	70	52.86	52.26	52.71	75.06	2709.72	37	86.8
CO2 MVI-1SB-160-9	3355396	40	575V	~3	3" 300#	435	45	49.75	70	52.86	52.26	52.71	75.06	2709.72	37	86.8
CO2 MVI-1SB-160-10/2	3355397	40	575V	~3	3" 300#	435	45	49.75	73	52.86	52.26	52.71	77.82	2726.1	37	86.8
CO2 MVI-1SB-160-10	3355398	40	575V	~3	3" 300#	435	45	49.75	73	52.86	52.26	52.71	77.82	2726.1	37	86.8
CO2 MVI-1SB-160-11/2	3355399	40	575V	~3	3" 300#	435	45	49.75	76	52.86	52.26	52.71	80.57	2742.48	37	86.8
CO2 MVI-1SB-160-6/2	3355099	25	460V	~3	3" 300#	435	39	47.75	65.13	50.86	49	49	65.73	1869.82	28.8	59.6

# Submittal Data Sheet

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

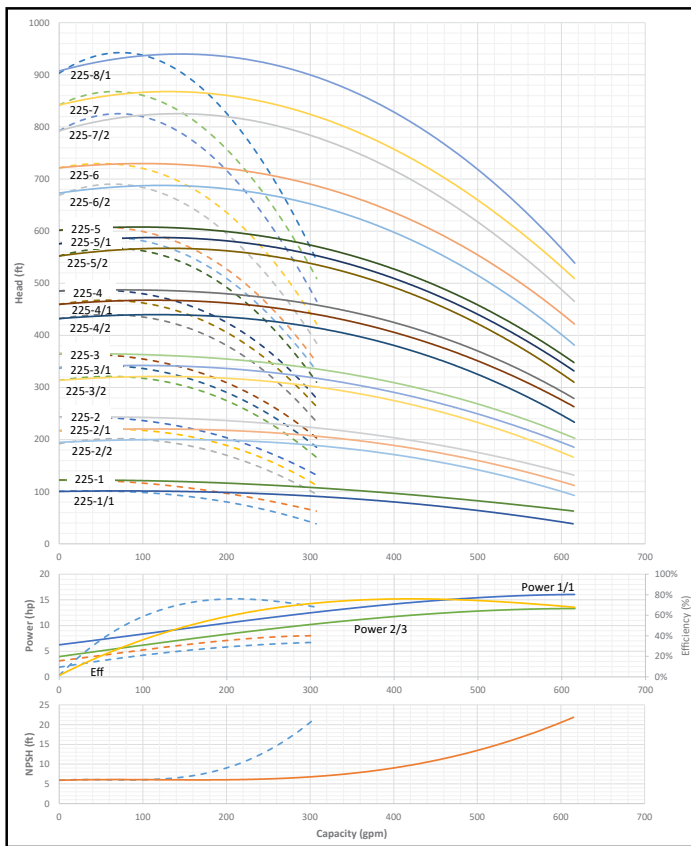


### CO2 MVI-225



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-225				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

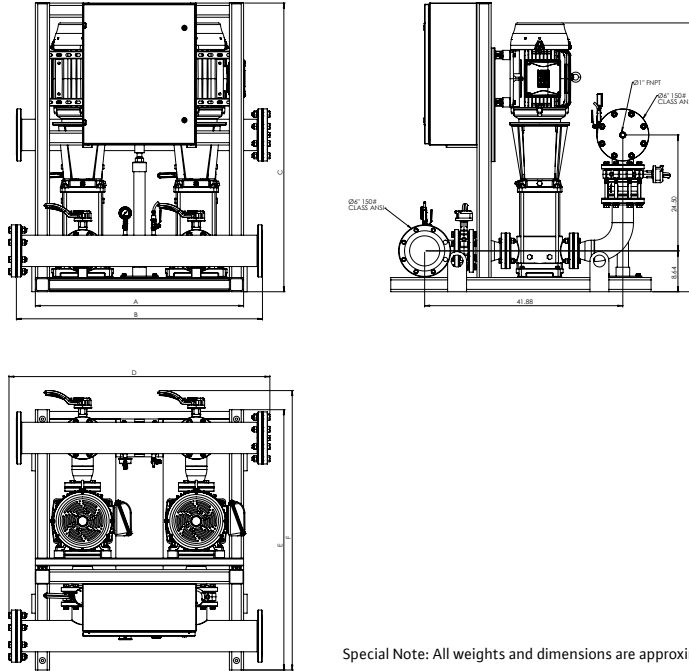
# Submittal Data Sheet

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



### CO2 MVI-225

#### 150# Discharge



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

### CO2 MVI-225

CO2 MVI-225															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-225-1/1	3353271	7.5	208V-230V	~3	6" 150#	232	35.75	61	61	64	13	59	42.05	1481.4	19.2-17.3	43-37
CO2 MVI-225-1	3353272	7.5	208V-230V	~3	6" 150#	232	35.75	61	61	64	13	59	42.05	1481	19.2-17.3	43-37
CO2 MVI-225-2/2	3353273	15	208V-230V	~3	6" 150#	232	44	52	61	55.13	54.75	59	53.66	1978.67	38.5-34.8	83-77.4
CO2 MVI-225-2/1	3353274	15	208V-230V	~3	6" 150#	232	44	52	61	55.13	54.75	59	53.66	1978.71	38.5-34.8	83-77.4
CO2 MVI-225-2	3353275	15	208V-230V	~3	6" 150#	232	44	52	61	55.13	54.75	59	53.66	1978.75	38.5-34.8	83-77.4
CO2 MVI-225-3/2	3353276	20	208V-230V	~3	6" 150#	232	44	52	69	55.13	54.75	59	56.81	1861.74	50.2-45.4	106.4
CO2 MVI-225-3/1	3353277	25	208V-230V	~3	6" 150#	232	44	52	69	55.13	55	59	59.08	2018.48	63.0-57.6	131
CO2 MVI-225-3	3353278	25	208V-230V	~3	6" 150#	232	44	52	69	55.13	55	59	59.07	2018.54	63.0-57.6	131
CO2 MVI-225-4/2	3353279	30	208V-230V	~3	6" 150#	232	44	52	87	55.13	55	60.58	62.22	2110.26	76.7-68.4	153
CO2 MVI-225-1/1	3353760	7.5	460V	~3	6" 150#	232	35.75	61	61	64	13	59	42.05	1353.71	8.67	34.2
CO2 MVI-225-1	3353761	7.5	460V	~3	6" 150#	232	35.75	61	61	64	13	59	42.05	1354.23	8.67	34.2
CO2 MVI-225-2/2	3353762	15	460V	~3	6" 150#	232	44	52	61	55.13	55	59	53.66	1810.81	17.4	37.8
CO2 MVI-225-2/1	3353763	15	460V	~3	6" 150#	232	44	52	61	55.13	55	59	53.66	1810.85	17.4	37.8
CO2 MVI-225-2	3353764	15	460V	~3	6" 150#	232	44	52	61	55.13	55	59	53.66	1810.89	17.4	37.8
CO2 MVI-225-3/2	3353765	20	460V	~3	6" 150#	232	44	52	61	55.13	55	59	56.81	1843.51	22.7	50.4
CO2 MVI-225-3/1	3353766	25	460V	~3	6" 150#	232	44	52	69	55.13	55	59	59.08	2089.71	28.8	59.6
CO2 MVI-225-3	3353767	25	460V	~3	6" 150#	232	44	52	69	55.13	55	59	59.07	2089.77	28.8	59.6
CO2 MVI-225-4/2	3353768	30	460V	~3	6" 150#	232	44	52	61	55.13	55	59	62.22	2117.14	34.2	70.2
CO2 MVI-225-1/1	3354249	7.5	575V	~3	6" 150#	232	35.75	61	61	64	13	59	42.05	1357.71	6.94	17.6
CO2 MVI-225-1	3354250	7.5	575V	~3	6" 150#	232	35.75	61	61	64	13	59	42.05	1357.77	6.94	17.6
CO2 MVI-225-2/2	3354251	15	575V	~3	6" 150#	232	44	52	61	55.13	54.75	59	53.66	1800.4	13.8	32.4
CO2 MVI-225-2/1	3354252	15	575V	~3	6" 150#	232	44	52	61	55.13	54.75	59	53.66	1800.44	13.8	32.4
CO2 MVI-225-2	3354253	15	575V	~3	6" 150#	232	44	52	61	55.13	54.75	59	53.66	1800.48	13.8	32.4
CO2 MVI-225-3/2	3354254	20	575V	~3	6" 150#	232	44	52	61	55.13	55	59	56.81	1834.62	18.2	43.8
CO2 MVI-225-3/1	3354255	25	575V	~3	6" 150#	232	44	52	69	55.13	55	59	59.08	2004.48	23	52.4
CO2 MVI-225-3	3354256	25	575V	~3	6" 150#	232	44	52	69	55.13	55	59	59.07	2004.54	23	52.4
CO2 MVI-225-4/2	3354257	30	575V	~3	6" 150#	232	44	52	69	55.13	55	59	62.22	2058.62	27.4	64

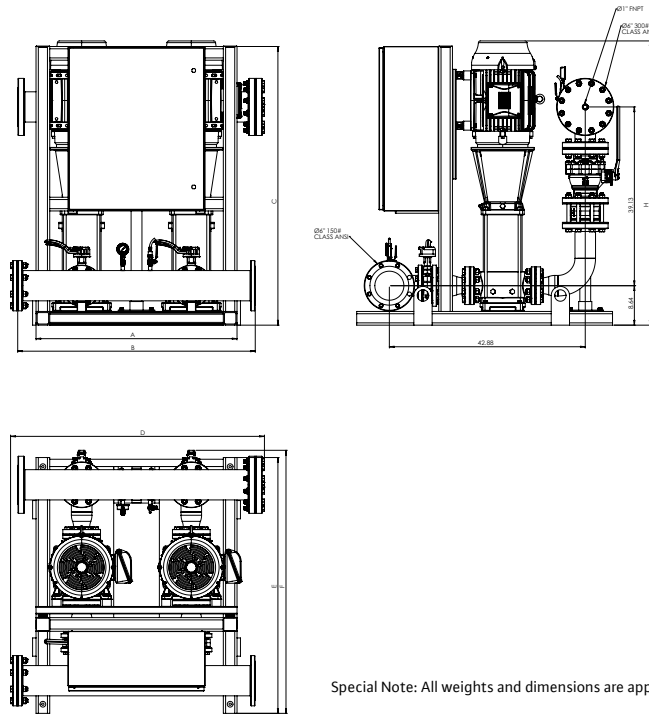
# Submittal Data Sheet

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



### CO2 MVI-225

#### 300# Discharge



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

### CO2 MVI-225

#### 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-225-4/1	3353280	30	208V-230V	-3	6" 300#	435	44	52	87	55.57	56	58.5	62.22	2345.16	76.7-68.4	153	
CO2 MVI-225-4/1	3353281	30	208V-230V	-3	6" 300#	435	44	52	87	55.57	56	58.5	62.22	2345.2	76.7-68.4	153	
CO2 MVI-225-5/2	3353282	40	208V-230V	-3	6" 300#	435	47	55	87	58.57	56	59.5	67.92	2679.36	101-92.6	208.4	
CO2 MVI-225-5/1	3353283	40	208V-230V	-3	6" 300#	435	47	55	87	58.57	56	59.5	67.92	2679.36	101-92.6	208.4	
CO2 MVI-225-5	3353284	40	208V-230V	-3	6" 300#	435	47	55	87	58.57	56	59.5	67.92	2679.36	101-92.6	208.4	
CO2 MVI-225-4/1	3353769	30	460V	-3	6" 300#	435	44	52	61	55.57	56	57.41	62.22	2352.05	34.2	70.2	
CO2 MVI-225-4/1	3353770	30	460V	-3	6" 300#	435	44	52	61	55.57	56	57.41	62.22	2352.63	34.2	70.2	
CO2 MVI-225-5/2	3353771	40	460V	-3	6" 300#	435	47	55	69	58.57	56	57.41	67.92	2954.28	46.3	99.4	
CO2 MVI-225-5/1	3353772	40	460V	-3	6" 300#	435	47	55	69	58.57	56	57.41	67.92	2954.28	46.3	99.4	
CO2 MVI-225-5	3353773	40	460V	-3	6" 300#	435	47	55	69	58.57	56	57.41	67.92	2954.28	46.3	99.4	
CO2 MVI-225-6/2	3353774	50	460V	-3	6" 300#	435	47	55	69	58.57	56	57.41	71.07	2747.7	56.1	122.2	
CO2 MVI-225-6/2	3353775	50	460V	-3	6" 300#	435	47	55	69	58.57	56	57.41	68.07	2747.24	56.1	122.2	
CO2 MVI-225-7/2	3353776	50	460V	-3	6" 300#	435	47	55	70	58.57	56	57.41	74.22	2761.88	56.1	122.2	
CO2 MVI-225-7/2	3353777	60	460V	-3	6" 300#	435	53	61	70	64.57	56	57.41	76.95	3346.8	67	146	
CO2 MVI-225-8/1	3353778	60	460V	-3	6" 300#	435	53	61	74	64.57	56	57.41	80.1	3367.24	67	146	
CO2 MVI-225-4/1	3354258	30	575V	-3	6" 300#	435	44	52	69	55.57	56	57.41	62.22	2293.52	27.4	64	
CO2 MVI-225-4/1	3354259	30	575V	-3	6" 300#	435	44	52	69	55.57	56	57.41	62.22	2293.56	27.4	64	
CO2 MVI-225-5/2	3354260	40	575V	-3	6" 300#	435	47	55	69	58.57	56	57.41	67.92	2633.68	37	86.8	
CO2 MVI-225-5/1	3354261	40	575V	-3	6" 300#	435	47	55	69	58.57	56	57.41	67.92	2633.68	37	86.8	
CO2 MVI-225-5	3354262	40	575V	-3	6" 300#	435	47	55	69	58.57	56	57.41	67.92	2633.68	37	86.8	
CO2 MVI-225-6/2	3354263	50	575V	-3	6" 300#	435	47	55	87	58.57	56	59.5	71.07	2764.84	44.9	105	
CO2 MVI-225-6/2	3354264	50	575V	-3	6" 300#	435	47	55	87	58.57	56	59.5	71.07	2764.92	44.9	105	
CO2 MVI-225-7/2	3354265	50	575V	-3	6" 300#	435	47	55	87	58.57	56	59.5	74.22	2781	44.9	105	
CO2 MVI-225-7/2	3354266	60	575V	-3	6" 300#	435	53	61	87	64.57	56	60.5	76.95	3395.88	53.6	127.6	
CO2 MVI-225-8/1	3354267	60	575V	-3	6" 300#	435	53	61	87	64.57	56	60.5	80.1	3409.94	53.6	127.6	

# Submittal Data Sheet

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

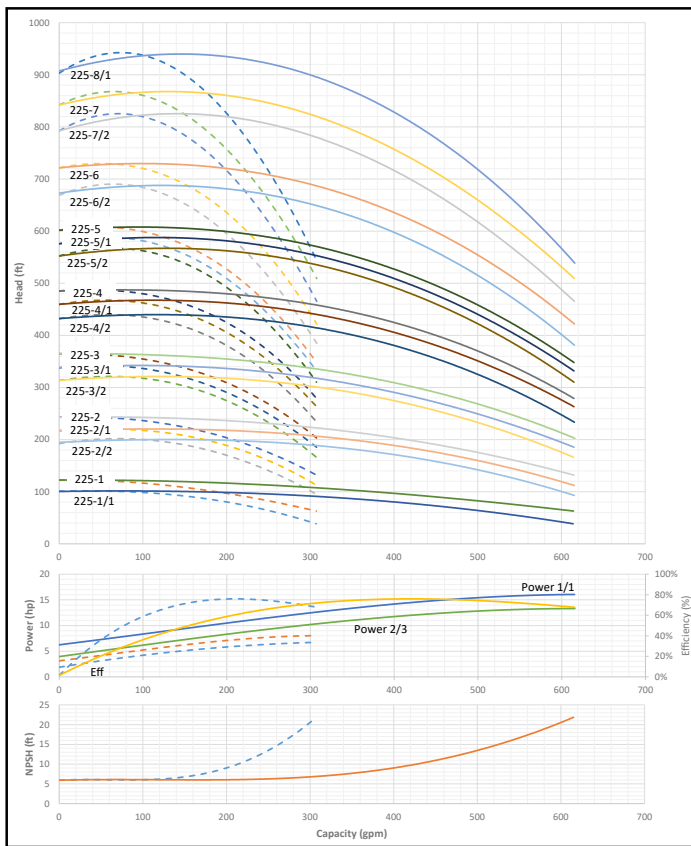


### CO2 MVI-1SB-225



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-225				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

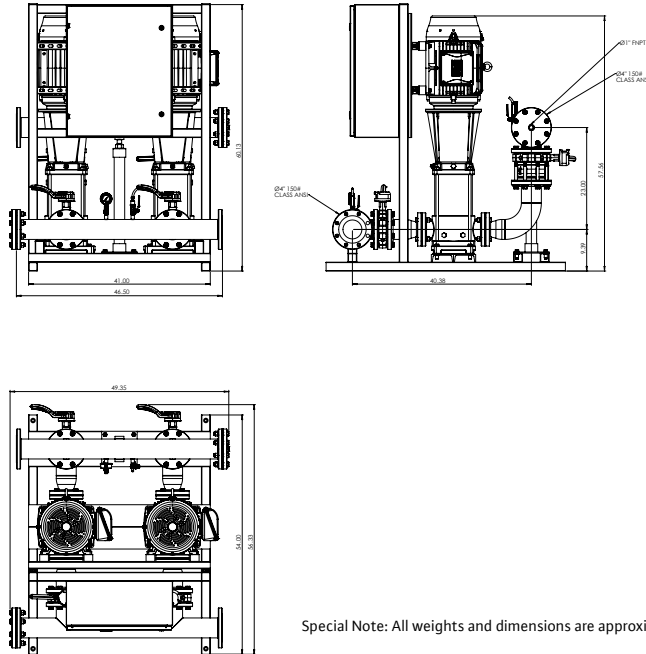
# Submittal Data Sheet

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



### CO2 MVI-1SB-225

#### 150# Discharge



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

### CO2 MVI-1SB-225

#### 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)	System FLA
CO2 MVI-1SB-225-1/1	3354820	7.5	208V-230V	~3	4" 150#	232	32	35.75	62.13	38.6	54	56.3	42.8	1126.2	19.2-17.3	43-37
CO2 MVI-1SB-225-1	3354821	7.5	208V-230V	~3	4" 150#	232	32	35.75	62.13	38.6	54	56.3	42.8	1126.26	19.2-17.3	43-37
CO2 MVI-1SB-225-2/2	3354822	15	208V-230V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.29	54.41	1620.76	38.5-34.8	83-77.4
CO2 MVI-1SB-225-2/1	3354823	15	208V-230V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.29	54.41	1620.8	38.5-34.8	83-77.4
CO2 MVI-1SB-225-2	3354824	15	208V-230V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.29	54.41	1620.84	38.5-34.8	83-77.4
CO2 MVI-1SB-225-3/2	3354825	20	208V-230V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.29	57.56	1493.77	50.2-45.4	106.4
CO2 MVI-1SB-225-3/1	3354826	25	208V-230V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.04	59.83	1650.15	63.0-57.6	131
CO2 MVI-1SB-225-3	3354827	25	208V-230V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.04	59.82	1650.21	63.0-57.6	131
CO2 MVI-1SB-225-4/2	3354828	30	208V-230V	~3	4" 150#	232	41	46.5	89.13	49.35	54	59.58	62.97	1723.31	76.7-68.4	153
CO2 MVI-1SB-225-1/1	3355110	7.5	460V	~3	4" 150#	232	32	35.75	62.13	38.6	54	56.3	42.8	998.97	8.67	34.2
CO2 MVI-1SB-225-1	3355111	7.5	460V	~3	4" 150#	232	32	35.75	62.13	38.6	54	56.3	42.8	999.03	8.67	34.2
CO2 MVI-1SB-225-2/2	3355112	15	460V	~3	4" 150#	232	41	46.5	60.13	49.35	54	56.29	54.41	1449.65	17.4	37.8
CO2 MVI-1SB-225-2/1	3355113	15	460V	~3	4" 150#	232	41	46.5	60.13	49.35	54	56.29	54.41	1449.69	17.4	37.8
CO2 MVI-1SB-225-2	3355114	15	460V	~3	4" 150#	232	41	46.5	60.13	49.35	54	56.29	54.41	1449.73	17.4	37.8
CO2 MVI-1SB-225-3/2	3355115	20	460V	~3	4" 150#	232	41	46.5	60.13	49.35	54	56.29	57.56	1481.81	22.7	50.4
CO2 MVI-1SB-225-3/1	3355116	25	460V	~3	4" 150#	232	41	46.5	65.13	49.35	54	56.04	59.83	1719.02	28.8	59.6
CO2 MVI-1SB-225-3	3355117	25	460V	~3	4" 150#	232	41	46.5	65.13	49.35	54	56.04	59.82	1719.08	28.8	59.6
CO2 MVI-1SB-225-4/2	3355118	30	460V	~3	4" 150#	232	41	46.5	65.13	49.35	54	56.04	62.97	1757.81	34.2	70.2
CO2 MVI-1SB-225-1/1	3355400	7.5	575V	~3	4" 150#	232	32	35.75	62.13	38.6	54	56.3	42.8	1002.97	6.94	17.6
CO2 MVI-1SB-225-1	3355401	7.5	575V	~3	4" 150#	232	32	35.75	62.13	38.6	54	56.3	42.8	1003.03	6.94	17.6
CO2 MVI-1SB-225-2/2	3355402	15	575V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.29	54.41	1442.48	13.8	32.4
CO2 MVI-1SB-225-2/1	3355403	15	575V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.29	54.41	1442.52	13.8	32.4
CO2 MVI-1SB-225-2	3355404	15	575V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.29	54.41	1442.56	13.8	32.4
CO2 MVI-1SB-225-3/2	3355405	20	575V	~3	4" 150#	232	41	46.5	65.13	49.35	54	56.29	57.56	1475.29	18.2	43.8
CO2 MVI-1SB-225-3/1	3355406	25	575V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.04	59.83	1636.15	23	52.4
CO2 MVI-1SB-225-3	3355407	25	575V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.04	59.82	1636.21	23	52.4
CO2 MVI-1SB-225-4/2	3355408	30	575V	~3	4" 150#	232	42	46.5	70.13	49.35	54	56.04	62.97	1690.93	27.4	64

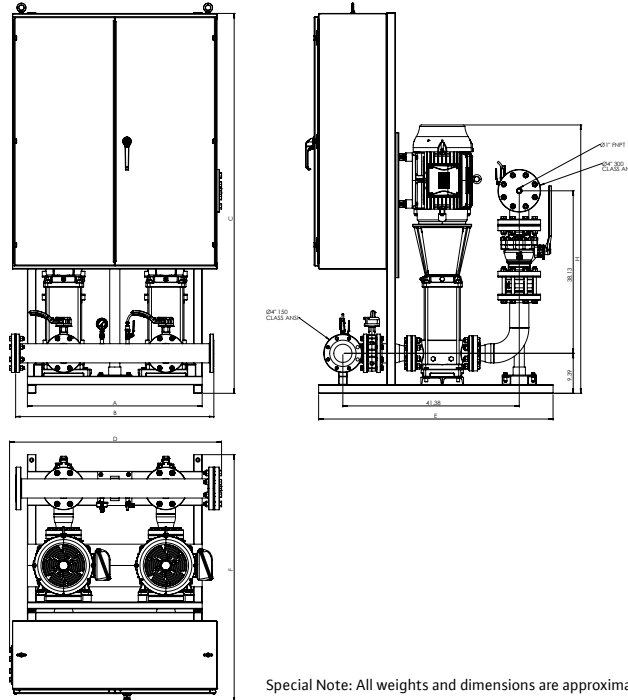
# Submittal Data Sheet

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



### CO2 MVI-1SB-225

#### 300# Discharge



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

### CO2 MVI-1SB-225

CO2 MVI-1SB-225															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-1SB-225-4/1	3354829	30	208V-230V	~3	4" 300#	435	41	46.5	89.13	49.74	55	58.04	62.97	1938.56	76.7-68.4	153
CO2 MVI-1SB-225-4	3354830	30	208V-230V	~3	4" 300#	435	41	46.5	89.13	49.74	55	58.04	62.97	1938.6	76.7-68.4	153
CO2 MVI-1SB-225-5/2	3354831	40	208V-230V	~3	4" 300#	435	47	48.75	87	51.99	55	59.49	67.92	2624.93	101-92.6	208.4
CO2 MVI-1SB-225-5/1	3354832	40	208V-230V	~3	4" 300#	435	47	48.75	87	51.99	55	59.49	67.92	2624.93	101-92.6	208.4
CO2 MVI-1SB-225-5	3354833	40	208V-230V	~3	4" 300#	435	47	48.75	87	51.99	55	59.49	67.92	2624.93	101-92.6	208.4
CO2 MVI-1SB-225-4/1	3355119	30	460V	~3	4" 300#	435	41	46.5	65.13	49.74	55	55	62.97	1973.06	34.2	70.2
CO2 MVI-1SB-225-4	3355120	30	460V	~3	4" 300#	435	41	46.5	65.13	49.74	55	55	62.97	1973.1	34.2	70.2
CO2 MVI-1SB-225-5/2	3355121	40	460V	~3	4" 300#	435	47	48.75	69	51.99	55	55.91	67.92	2899.89	46.3	99.4
CO2 MVI-1SB-225-5/1	3355122	40	460V	~3	4" 300#	435	47	48.75	69	51.99	55	55.91	67.92	2899.89	46.3	99.4
CO2 MVI-1SB-225-5	3355123	40	460V	~3	4" 300#	435	47	48.75	69	51.99	55	55.91	67.92	2899.89	46.3	99.4
CO2 MVI-1SB-225-6/2	3355124	50	460V	~3	4" 300#	435	47	48.75	69	51.99	55	55.91	71.07	2693.31	56.1	122.2
CO2 MVI-1SB-225-6	3355125	50	460V	~3	4" 300#	435	47	48.75	69	51.99	55	55.91	68.07	2692.85	56.1	122.2
CO2 MVI-1SB-225-7/2	3355126	50	460V	~3	4" 300#	435	47	48.75	70	51.99	55	55.91	74.22	2707.49	56.1	122.2
CO2 MVI-1SB-225-7	3355127	60	460V	~3	4" 300#	435	53	54.75	70	57.99	55	56.5	76.95	3291.94	67	146
CO2 MVI-1SB-225-8/1	3355128	60	460V	~3	4" 300#	435	53	54.75	74	57.99	55	56.5	80.1	3311.84	67	146
CO2 MVI-1SB-225-4/1	3355409	30	575V	~3	4" 300#	435	42	46.5	70.13	49.74	55	55	62.97	1906.19	27.4	64
CO2 MVI-1SB-225-4	3355410	30	575V	~3	4" 300#	435	42	46.5	70.13	49.74	55	55	62.97	1906.23	27.4	64
CO2 MVI-1SB-225-5/2	3355411	40	575V	~3	4" 300#	435	47	48.75	69	51.99	55	55.91	67.92	2579.29	37	86.8
CO2 MVI-1SB-225-5/1	3355412	40	575V	~3	4" 300#	435	47	48.75	69	51.99	55	55.91	67.92	2579.29	37	86.8
CO2 MVI-1SB-225-5	3355413	40	575V	~3	4" 300#	435	47	48.75	69	51.99	55	55.91	67.92	2579.29	37	86.8
CO2 MVI-1SB-225-6/2	3355414	50	575V	~3	4" 300#	435	47	48.75	87	51.99	55	59.49	71.07	2710.41	44.9	105
CO2 MVI-1SB-225-6	3355415	50	575V	~3	4" 300#	435	47	48.75	87	51.99	55	59.49	71.07	2710.49	44.9	105
CO2 MVI-1SB-225-7/2	3355416	50	575V	~3	4" 300#	435	47	48.75	87	51.99	55	59.49	74.22	2726.57	44.9	105
CO2 MVI-1SB-225-7	3355417	60	575V	~3	4" 300#	435	53	54.75	87	57.99	55	60.49	76.95	3341.02	53.6	127.6
CO2 MVI-1SB-225-8/1	3355418	60	575V	~3	4" 300#	435	53	54.75	87	57.99	55	60.49	80.1	3355.08	53.6	127.6



# Submittal Data Sheet

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

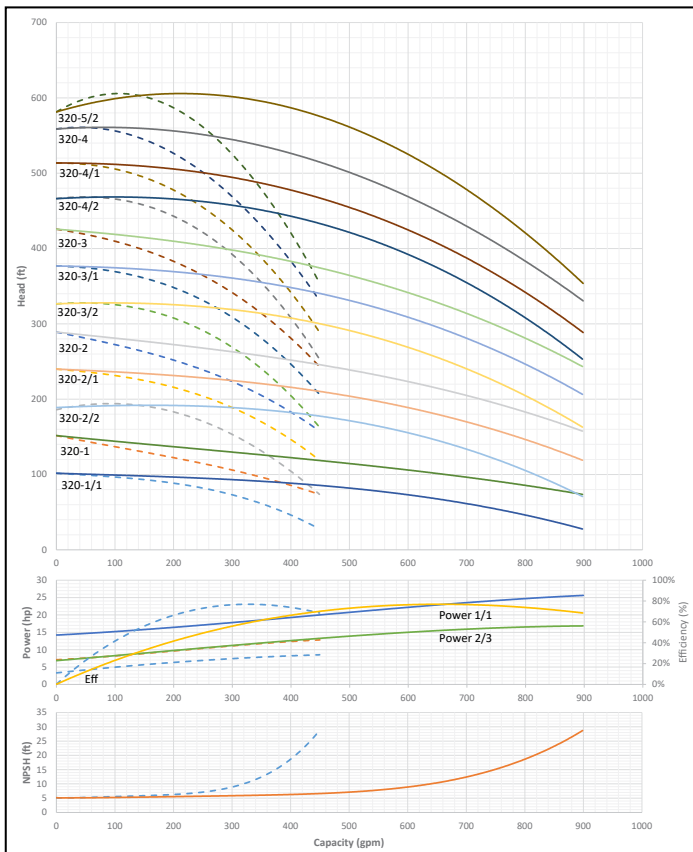


### CO2 MVI-320



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-320				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

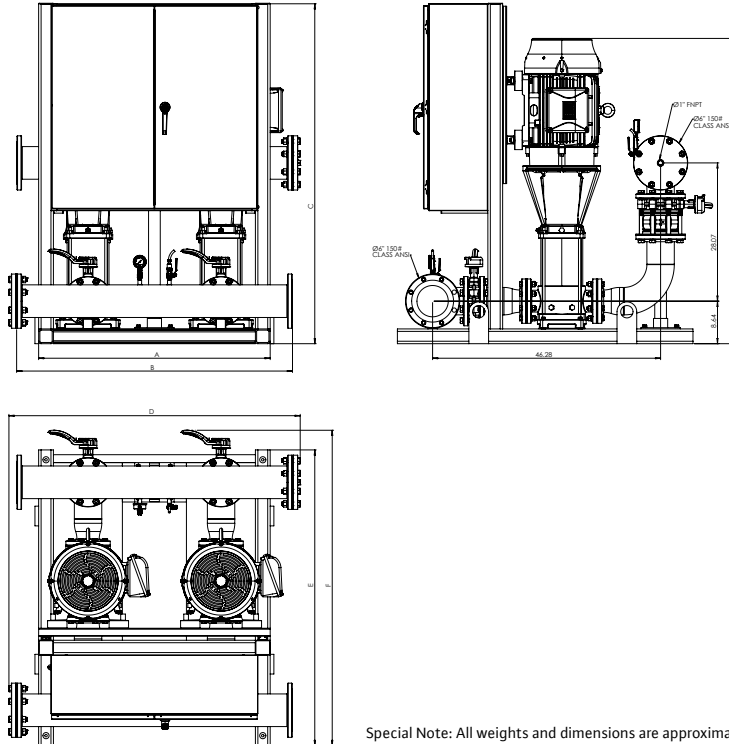
# Submittal Data Sheet

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



### CO2 MVI-320

#### 150# Discharge



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

### CO2 MVI-320

#### 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-320-1/1	3354626	7.5	208V-230V	~3	6" 150#	232	35.75	52	61	55.13	60	63.95	42.08	1593.82	19.2-17.3	43-37
CO2 MVI-320-1/1	3354627	15	208V-230V	~3	6" 150#	232	44	52	61	55.13	60	63.95	50.55	2077.09	38.5-34.8	83-77.4
CO2 MVI-320-2/2	3354628	15	208V-230V	~3	6" 150#	232	44	52	61	55.13	60	63.95	53.78	2094.41	38.5-34.8	83-77.4
CO2 MVI-320-2/1	3354629	20	208V-230V	~3	6" 150#	232	44	52	69	55.13	60	63.95	53.78	1959.61	50.2-45.4	106.4
CO2 MVI-320-2	3354630	25	208V-230V	~3	6" 150#	232	44	52	69	55.13	60	63.93	56.04	2115.95	63.0-57.6	131
CO2 MVI-320-3/2	3354631	30	208V-230V	~3	6" 150#	232	44	52	89	55.13	60	63.95	59.29	2210.24	76.7-68.4	153
CO2 MVI-320-3/1	3354632	40	208V-230V	~3	6" 150#	232	47	56	89	59.13	60	64.62	61.84	2529.12	101-92.6	208.4
CO2 MVI-320-3	3354633	40	208V-230V	~3	6" 150#	232	47	56	89	59.13	60	64.62	61.84	2529.12	101-92.6	208.4
CO2 MVI-320-1/1	3354662	7.5	460V	~3	6" 150#	232	35.75	52	61	55.13	60	63.95	42.08	1466.13	8.67	34.2
CO2 MVI-320-1/1	3354663	15	460V	~3	6" 150#	232	44	52	61	55.13	60	63.95	50.55	1908.87	17.4	37.8
CO2 MVI-320-2/2	3354664	15	460V	~3	6" 150#	232	44	52	61	55.13	60	63.95	53.78	1926.19	17.4	37.8
CO2 MVI-320-2/1	3354665	20	460V	~3	6" 150#	232	44	52	61	55.13	60	63.95	53.78	1942.19	22.7	50.4
CO2 MVI-320-2	3354666	25	460V	~3	6" 150#	232	44	52	61	55.13	60	63.95	56.04	2176.48	28.8	59.6
CO2 MVI-320-3/2	3354667	30	460V	~3	6" 150#	232	44	52	61	55.13	60	63.95	59.29	2216.14	34.2	70.2
CO2 MVI-320-3/1	3354668	40	460V	~3	6" 150#	232	47	56	69	59.13	60	63.95	61.84	2803.09	46.3	99.4
CO2 MVI-320-3	3354669	40	460V	~3	6" 150#	232	47	56	69	59.13	60	63.95	61.84	2803.09	46.3	99.4
CO2 MVI-320-1/1	3354698	7.5	575V	~3	6" 150#	232	35.75	52	61	55.13	60	63.95	42.08	1470.13	6.94	17.6
CO2 MVI-320-1/1	3354699	15	575V	~3	6" 150#	232	44	52	61	55.13	60	63.95	65.09	1898.82	13.8	32.4
CO2 MVI-320-2/2	3354700	15	575V	~3	6" 150#	232	44	52	61	55.13	60	63.95	65.09	1916.14	13.8	32.4
CO2 MVI-320-2/1	3354701	20	575V	~3	6" 150#	232	44	52	61	55.13	60	63.95	53.78	1932.14	18.2	43.8
CO2 MVI-320-2	3354702	25	575V	~3	6" 150#	232	44	52	69	55.13	60	63.93	56.04	2101.95	23	52.4
CO2 MVI-320-3/2	3354703	30	575V	~3	6" 150#	232	44	52	69	55.13	60	63.93	59.29	2157.61	27.4	64
CO2 MVI-320-3/1	3354704	40	575V	~3	6" 150#	232	47	56	69	59.13	60	63.95	61.84	2482.49	37	86.8
CO2 MVI-320-3	3354705	40	575V	~3	6" 150#	232	47	56	69	59.13	60	63.95	61.84	2482.49	37	86.8

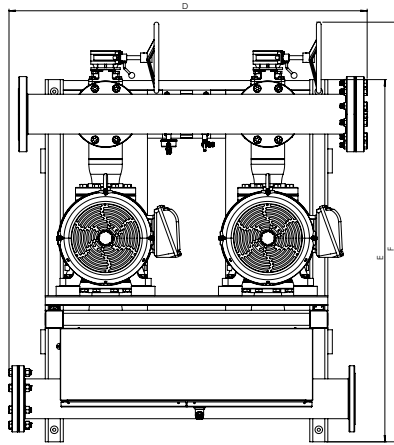
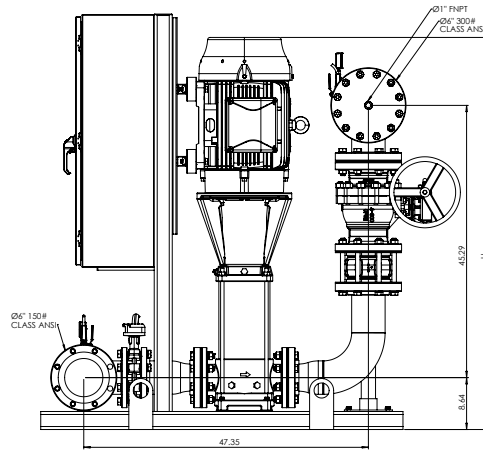
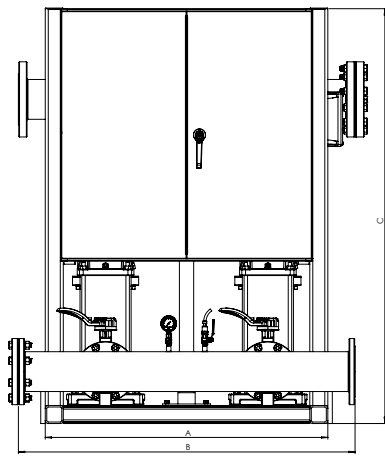
# Submittal Data Sheet

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



### CO2 MVI-320

#### 300# Discharge



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

CO2 MVI-320														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-320-4/2	3354634	40	208V-230V	~3	6" 300#	435	47	56	89	59.57	60.25	69.97	65.09	2845.12	101-92.6	208.4
CO2 MVI-320-4/2	3354670	40	460V	~3	6" 300#	435	47	56	69	59.57	60.25	69.8	65.09	3119.1	46.3	99.4
CO2 MVI-320-4/1	3354671	50	460V	~3	6" 300#	435	47	56	69	59.57	60.25	69.8	65.09	2896.21	56.1	122.2
CO2 MVI-320-4	3354672	50	460V	~3	6" 300#	435	47	56	69	59.57	60.25	69.8	65.09	2896.21	56.1	122.2
CO2 MVI-320-5/2	3354673	60	460V	~3	6" 300#	435	53	65	69	68.57	60.25	69.8	71.07	3481.11	67	146
CO2 MVI-320-4/2	3354706	40	575V	~3	6" 300#	435	47	56	69	59.57	60.25	69.8	65.09	2798.49	37	86.8
CO2 MVI-320-4/1	3354707	50	575V	~3	6" 300#	435	47	56	89	59.57	60.25	69.97	65.09	2914.84	44.9	105
CO2 MVI-320-4	3354708	50	575V	~3	6" 300#	435	47	56	89	59.57	60.25	69.97	65.09	2914.84	44.9	105
CO2 MVI-320-5/2	3354709	60	575V	~3	6" 300#	435	53	65	89	68.57	60.25	70.97	71.07	3529.74	53.6	127.6

# Submittal Data Sheet

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

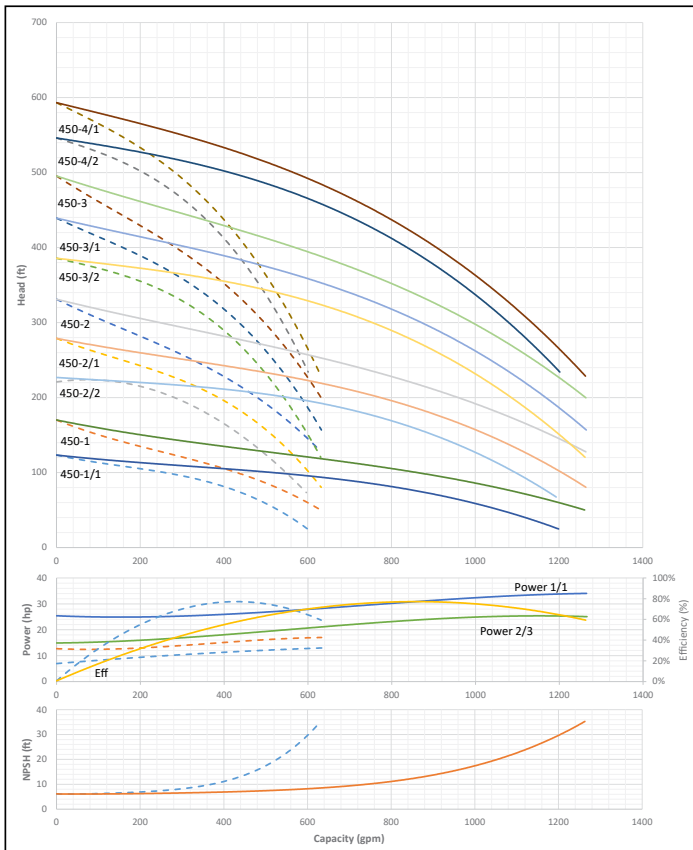


### CO2 MVI-450



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-450				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

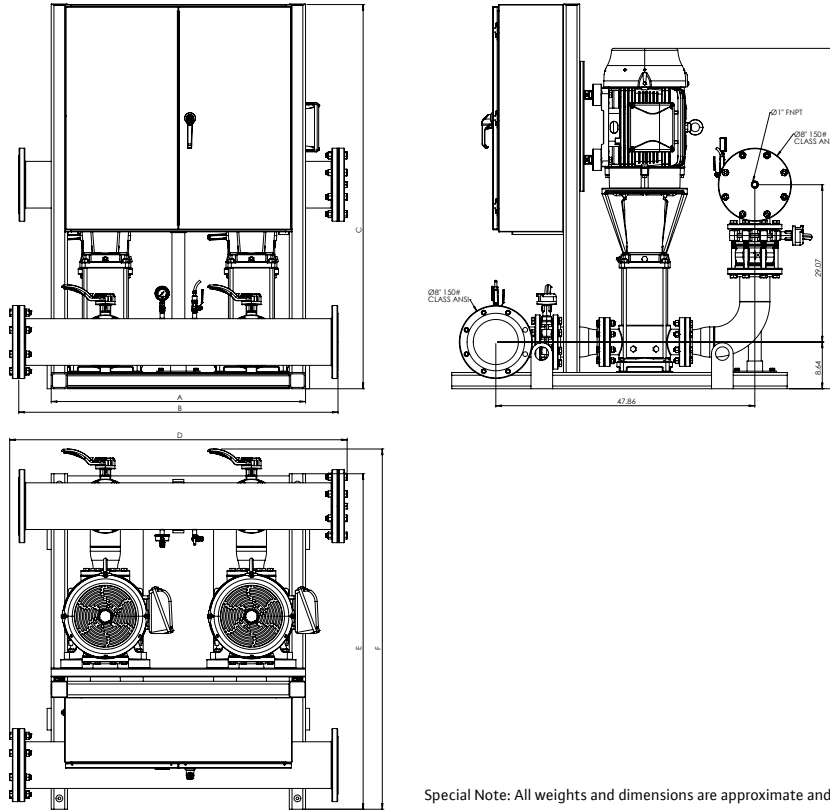
# Submittal Data Sheet

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



### CO2 MVI-450

#### 150# Discharge



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

### CO2 MVI-450

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-450-1/1	3353290	15	208V-230V	~3	8" 150#	232	44	56	61	59.37	62	66.53	50.79	2180.92	38.5-34.8	83-77.4
CO2 MVI-450-1	3353291	15	208V-230V	~3	8" 150#	232	44	56	61	59.37	62	66.53	50.79	2181	38.5-34.8	83-77.4
CO2 MVI-450-2/2	3353292	25	208V-230V	~3	8" 150#	232	44	56	71	59.37	62	66.53	56.64	2226.61	63.0-57.6	131
CO2 MVI-450-2/1	3353293	30	208V-230V	~3	8" 150#	232	44	56	89	59.37	62	66.53	56.64	2302.33	76.7-68.4	153
CO2 MVI-450-2	3353294	40	208V-230V	~3	8" 150#	232	47	59	89	62.37	62	66.53	59.19	2621.79	101-92.6	208.4
CO2 MVI-450-3/2	3353295	40	208V-230V	~3	8" 150#	232	47	59	89	62.37	62	66.53	62.78	2643.79	101-92.6	208.4
CO2 MVI-450-1/1	3353779	15	460V	~3	8" 150#	232	44	56	61	59.37	62	66.53	50.79	2010.02	17.4	37.8
CO2 MVI-450-1	3353780	15	460V	~3	8" 150#	232	44	56	61	59.37	62	66.53	50.79	2010.1	17.4	37.8
CO2 MVI-450-2/2	3353781	25	460V	~3	8" 150#	232	44	56	71	59.37	62	66.53	56.64	2299.77	28.8	59.6
CO2 MVI-450-2/1	3353782	30	460V	~3	8" 150#	232	44	56	71	59.37	62	66.53	56.64	2321.85	34.2	70.2
CO2 MVI-450-2	3353783	40	460V	~3	8" 150#	232	47	59	71	62.37	62	66.53	59.19	2896.75	46.3	99.4
CO2 MVI-450-3/2	3353784	40	460V	~3	8" 150#	232	47	59	71	62.37	62	66.53	62.78	2918.75	46.3	99.4
CO2 MVI-450-3/1	3353785	50	460V	~3	8" 150#	232	47	59	71	62.37	62	66.53	62.78	2694.67	56.1	122.2
CO2 MVI-450-3	3353786	50	460V	~3	8" 150#	232	47	59	71	62.37	62	66.53	62.78	2694.77	56.1	122.2
CO2 MVI-450-1/1	3354268	15	575V	~3	8" 150#	232	44	56	61	59.37	62	66.53	50.79	2002.64	13.8	32.4
CO2 MVI-450-1	3354269	15	575V	~3	8" 150#	232	44	56	61	59.37	62	66.53	50.79	2002.72	13.8	32.4
CO2 MVI-450-2/2	3354270	25	575V	~3	8" 150#	232	44	56	71	59.37	62	66.53	56.64	2212.61	23	52.4
CO2 MVI-450-2/1	3354271	30	575V	~3	8" 150#	232	44	56	71	59.37	62	66.53	56.64	2250.69	27.4	64
CO2 MVI-450-2	3354272	40	575V	~3	8" 150#	232	47	59	71	62.37	62	66.53	59.19	2576.15	37	86.8
CO2 MVI-450-3/2	3354273	40	575V	~3	8" 150#	232	47	59	71	62.37	62	66.53	62.78	2598.15	37	86.8
CO2 MVI-450-3/1	3354274	50	575V	~3	8" 150#	232	47	59	89	62.37	62	66.53	62.78	2712.31	44.9	105
CO2 MVI-450-3	3354275	50	575V	~3	8" 150#	232	47	59	89	62.37	62	66.53	62.78	2712.41	44.9	105

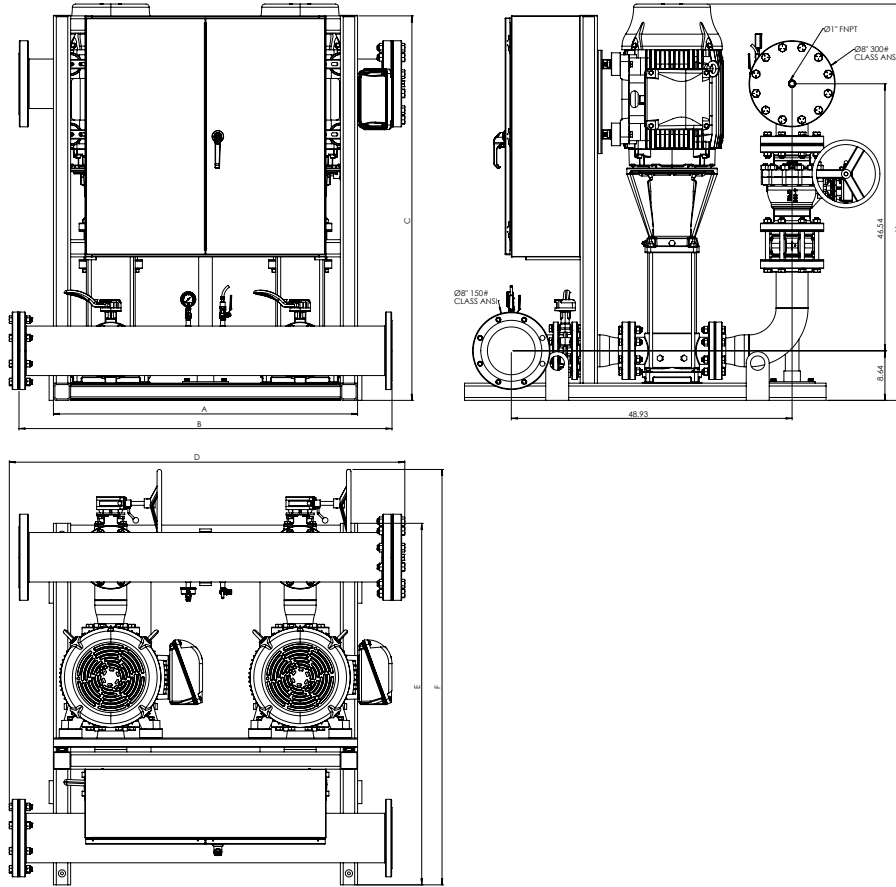
# Submittal Data Sheet

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



### CO2 MVI-450

#### 300# Discharge



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

### CO2 MVI-450

CO2 MVI-450															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-450-4/2	3353787	60	460V	~3	8" 300#	435	53	65	67	68.92	63	72.38	68.94	3622.22	67	146
CO2 MVI-450-4/1	3353788	60	460V	~3	8" 300#	435	53	65	67	68.92	63	72.38	68.94	3622.98	67	146
CO2 MVI-450-4/2	3354276	60	575V	~3	8" 300#	435	53	65	85	68.92	63	72.38	68.94	3669.86	53.6	127.6
CO2 MVI-450-4/1	3354277	60	575V	~3	8" 300#	435	53	65	85	68.92	63	72.38	68.94	3670.62	53.6	127.6

# Submittal Data Sheet

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

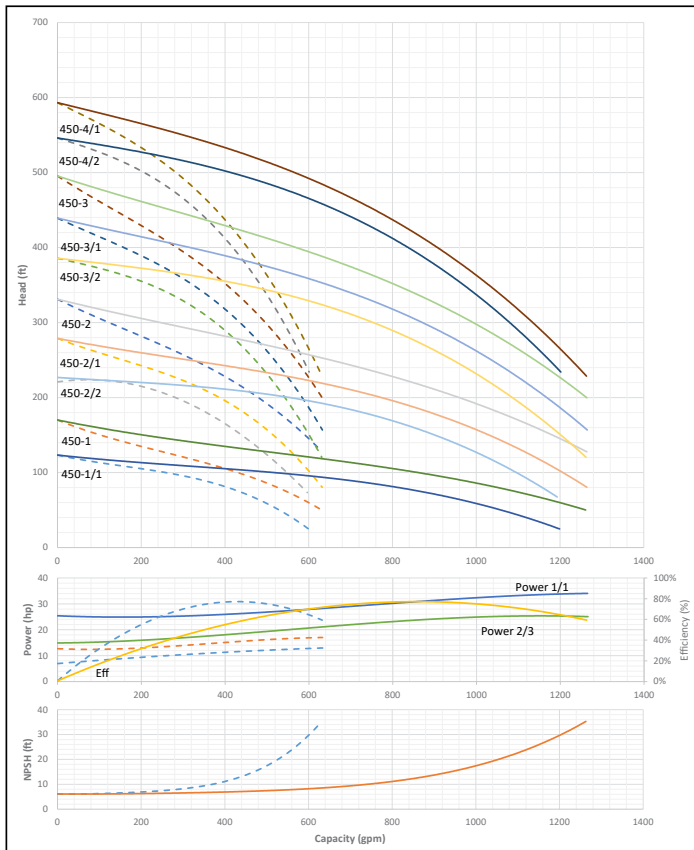


### CO2 MVI-1SB-450



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-450				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

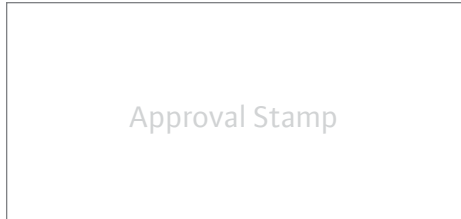
Liquid Temp Range	208-230/460-3 or 575-3
Enclosure	NEMA 3R up to 20 HP NEMA 12 for 25 HP and above (NEMA 4 and 4X available upon request)
Standard	Meets UL 508A
Variable Frequency Drives	Danfoss FC-101: • 1 HP to 3 HP 208-230V-1 IN / 208-230V-3 OUT • 1 HP to 60 HP 208-230V-3 • 1 HP to 100 HP 460V-3 •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



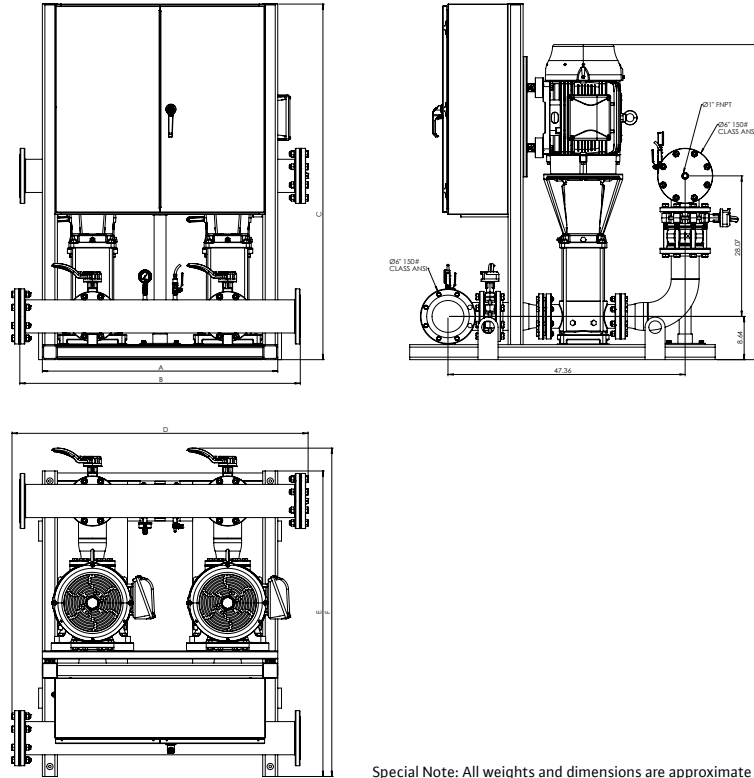
# Submittal Data Sheet

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



### CO2 MVI-1SB-450

#### 150# Discharge



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

### CO2 MVI-1SB-450

#### 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-450 -1/1	3354839	15	208V-230V	~3	6" 150#	232	44	52	61	55.13	61	65.53	50.79	2126.64	38.5-34.8	83-77.4	
CO2 MVI-1SB-450 -1	3354840	15	208V-230V	~3	6" 150#	232	44	52	61	55.13	61	65.53	50.79	2126.72	38.5-34.8	83-77.4	
CO2 MVI-1SB-450 -2/2	3354841	25	208V-230V	~3	6" 150#	232	44	52	71	55.13	61	65.53	56.64	2172.2	63.0-57.6	131	
CO2 MVI-1SB-450 -2/1	3354842	30	208V-230V	~3	6" 150#	232	44	52	89	55.13	61	65.53	56.64	2247.93	76.7-68.4	153	
CO2 MVI-1SB-450 -2	3354843	40	208V-230V	~3	6" 150#	232	47	56	89	59.13	61	65.53	59.19	2567.32	101-92.6	208.4	
CO2 MVI-1SB-450 -3/2	3354844	40	208V-230V	~3	6" 150#	232	47	56	89	59.13	61	65.53	62.78	2589.32	101-92.6	208.4	
CO2 MVI-1SB-450 -1/1	3355129	15	460V	~3	6" 150#	232	44	52	61	55.13	61	65.53	50.79	1955.66	17.4	37.8	
CO2 MVI-1SB-450 -1	3355130	15	460V	~3	6" 150#	232	44	52	61	55.13	61	65.53	50.79	1955.74	17.4	37.8	
CO2 MVI-1SB-450 -2/2	3355131	25	460V	~3	6" 150#	232	44	52	61	55.13	61	65.53	56.64	2230.77	28.8	59.6	
CO2 MVI-1SB-450 -2/1	3355132	30	460V	~3	6" 150#	232	44	52	61	55.13	61	65.53	56.64	2252.85	34.2	70.2	
CO2 MVI-1SB-450 -2	3355133	40	460V	~3	6" 150#	232	47	56	71	59.13	61	65.53	59.19	2842.28	46.3	99.4	
CO2 MVI-1SB-450 -3/2	3355134	40	460V	~3	6" 150#	232	47	56	71	59.13	61	65.53	62.78	2864.28	46.3	99.4	
CO2 MVI-1SB-450 -3/1	3355135	50	460V	~3	6" 150#	232	47	56	71	59.13	61	65.53	62.78	2640.2	56.1	122.2	
CO2 MVI-1SB-450 -3	3355136	50	460V	~3	6" 150#	232	47	56	71	59.13	61	65.53	62.78	2640.3	56.1	122.2	
CO2 MVI-1SB-450 -1/1	3355419	15	575V	~3	6" 150#	232	44	52	61	55.13	61	65.53	50.79	1948.36	13.8	32.4	
CO2 MVI-1SB-450 -1	3355420	15	575V	~3	6" 150#	232	44	52	61	55.13	61	65.53	50.79	1948.44	13.8	32.4	
CO2 MVI-1SB-450 -2/2	3355421	25	575V	~3	6" 150#	232	44	52	71	55.13	61	65.53	56.64	2158.2	23	52.4	
CO2 MVI-1SB-450 -2/1	3355422	30	575V	~3	6" 150#	232	44	52	71	55.13	61	65.53	56.64	2196.28	27.4	64	
CO2 MVI-1SB-450 -2	3355423	40	575V	~3	6" 150#	232	47	56	71	59.13	61	65.53	59.19	2521.68	37	86.8	
CO2 MVI-1SB-450 -3/2	3355424	40	575V	~3	6" 150#	232	47	56	71	59.13	61	65.53	62.78	2543.68	37	86.8	
CO2 MVI-1SB-450 -3/1	3355425	50	575V	~3	6" 150#	232	47	56	89	59.13	61	65.53	62.78	2657.84	44.9	105	
CO2 MVI-1SB-450 -3	3355426	50	575V	~3	6" 150#	232	47	56	89	59.13	61	65.53	62.78	2657.94	44.9	105	



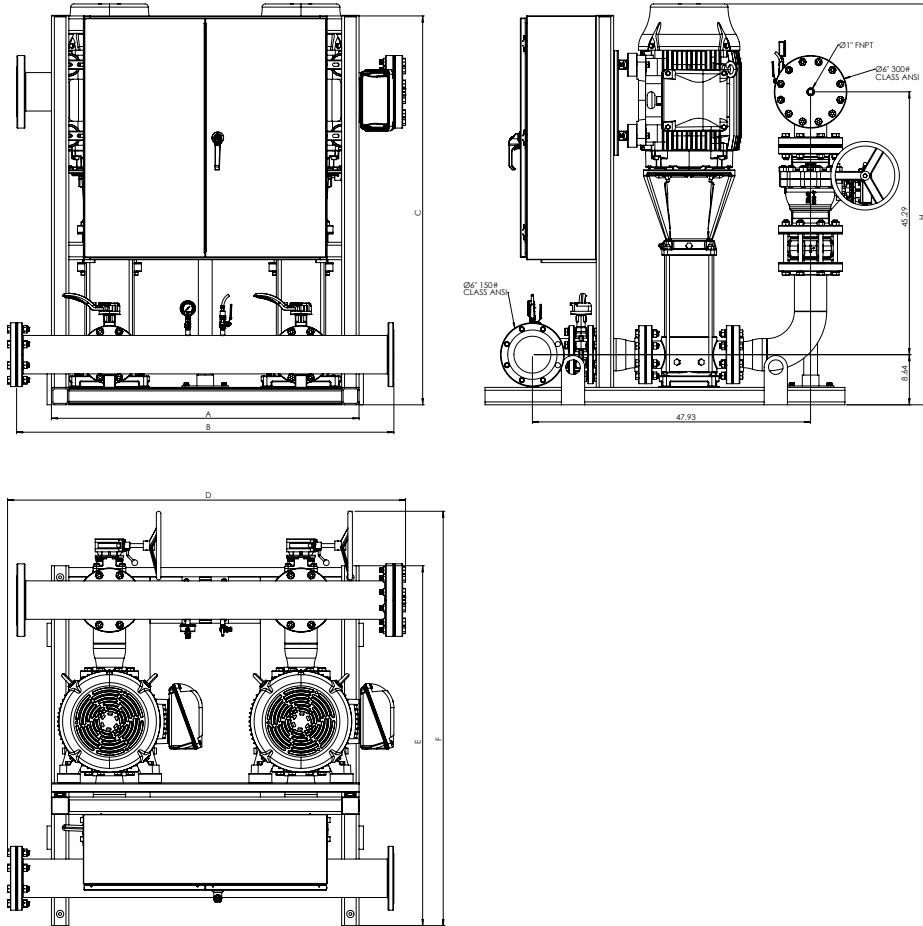
# Submittal Data Sheet

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



### CO2 MVI-1SB-450

#### 300# Discharge



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

CO2 MVI-1SB-450														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-450 -4/2	3355137	60	460V	~3	6" 300#	435	53	65	67	68.57	62	71.38	68.94	3549.93	67	146
CO2 MVI-1SB-450 -4/1	3355138	60	460V	~3	6" 300#	435	53	65	67	68.57	62	71.38	68.94	3550.69	67	146
CO2 MVI-1SB-450 -4/2	3355427	60	575V	~3	6" 300#	435	53	65	85	68.57	62	71.38	68.94	3597.57	53.6	127.6
CO2 MVI-1SB-450 -4/1	3355428	60	575V	~3	6" 300#	435	53	65	85	68.57	62	71.38	68.94	3598.33	53.6	127.6

# Submittal Data Sheet

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

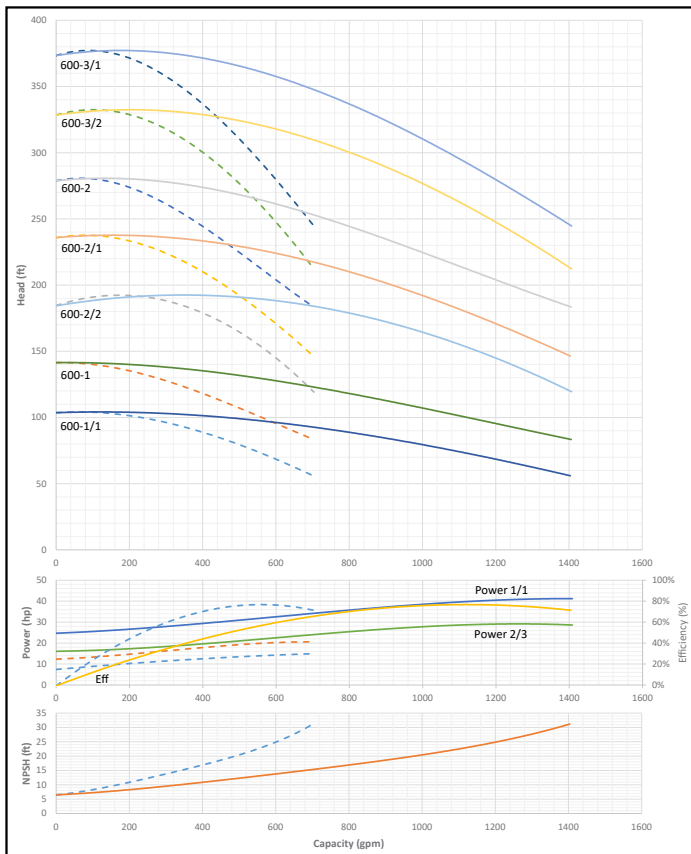


### CO2 MVI-600



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-600				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

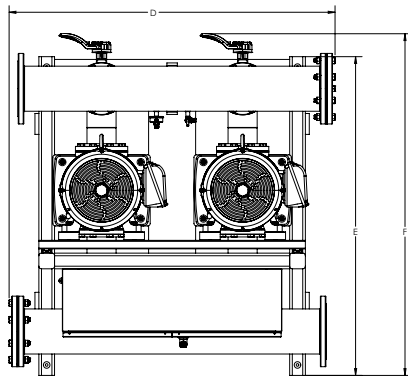
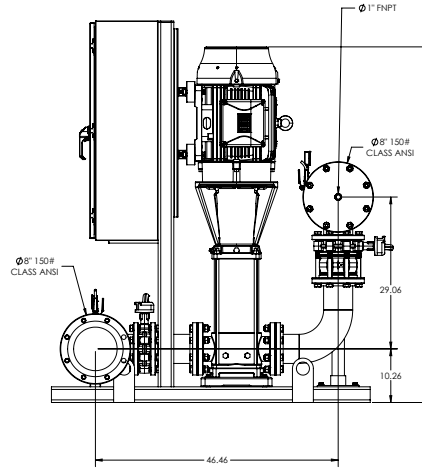
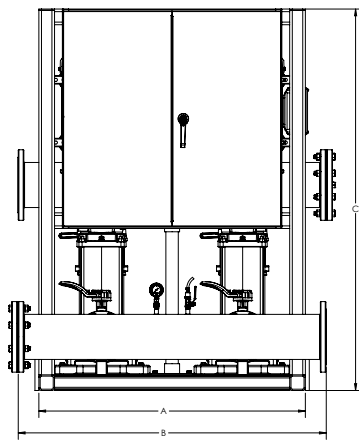
# Submittal Data Sheet

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



### CO2 MVI-600

#### 150# Discharge



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

CO2 MVI-600														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-600-1/1	3353300	20	208V-230V	~3	8" 150#	232	48	56	73	59.37	61	65.41	57	2208.51	50.2-45.4	106.4
CO2 MVI-600-1	3353301	25	208V-230V	~3	8" 150#	232	48	56	73	59.37	61	65.41	59.38	2364.74	63.0-57.6	131
CO2 MVI-600-2/2	3353302	40	208V-230V	~3	8" 150#	232	51	59	91	62.37	61	65.38	68.05	2821.48	101-92.6	208.4
CO2 MVI-600-2/1	3353303	40	208V-230V	~3	8" 150#	232	51	59	91	62.37	61	65.38	68.05	2821.48	101-92.6	208.4
CO2 MVI-600-1/1	3353789	20	460V	~3	8" 150#	232	48	56	61	59.37	61	65.41	57	2182.84	22.7	50.4
CO2 MVI-600-1	3353790	25	460V	~3	8" 150#	232	48	56	65	59.37	61	65.41	59.38	2424.29	28.8	59.6
CO2 MVI-600-2/2	3353791	40	460V	~3	8" 150#	232	51	59	73	62.37	61	65.41	68.05	3094.59	46.3	99.4
CO2 MVI-600-2/1	3353792	40	460V	~3	8" 150#	232	51	59	73	62.37	61	65.41	68.05	3094.59	46.3	99.4
CO2 MVI-600-2	3353793	50	460V	~3	8" 150#	232	51	59	73	62.37	61	65.41	68.05	2871.97	56.1	122.2
CO2 MVI-600-3/2	3353794	60	460V	~3	8" 150#	232	57	65	73	68.37	61	65.41	76.91	3499.71	67	146
CO2 MVI-600-3/1	3353795	60	460V	~3	8" 150#	232	57	65	73	68.37	61	65.41	76.91	3500.05	67	146
CO2 MVI-600-1/1	3354278	20	575V	~3	8" 150#	232	48	56	65	59.37	61	65.41	57	2179.59	18.2	43.8
CO2 MVI-600-1	3354279	25	575V	~3	8" 150#	232	48	56	73	59.37	61	65.41	59.38	2350.74	23	52.4
CO2 MVI-600-2/2	3354280	40	575V	~3	8" 150#	232	51	59	73	62.37	61	65.41	68.05	2773.99	37	86.8
CO2 MVI-600-2/1	3354281	40	575V	~3	8" 150#	232	51	59	73	62.37	61	65.41	68.05	2773.99	37	86.8
CO2 MVI-600-2	3354282	50	575V	~3	8" 150#	232	51	59	91	62.37	61	65.38	68.05	2891.46	44.9	105
CO2 MVI-600-3/2	3354283	60	575V	~3	8" 150#	232	57	65	91	68.37	61	65.41	76.91	3549.29	53.6	127.6
CO2 MVI-600-3/1	3354284	60	575V	~3	8" 150#	232	57	65	91	68.37	61	65.41	76.91	3549.63	53.6	127.6

# Submittal Data Sheet

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

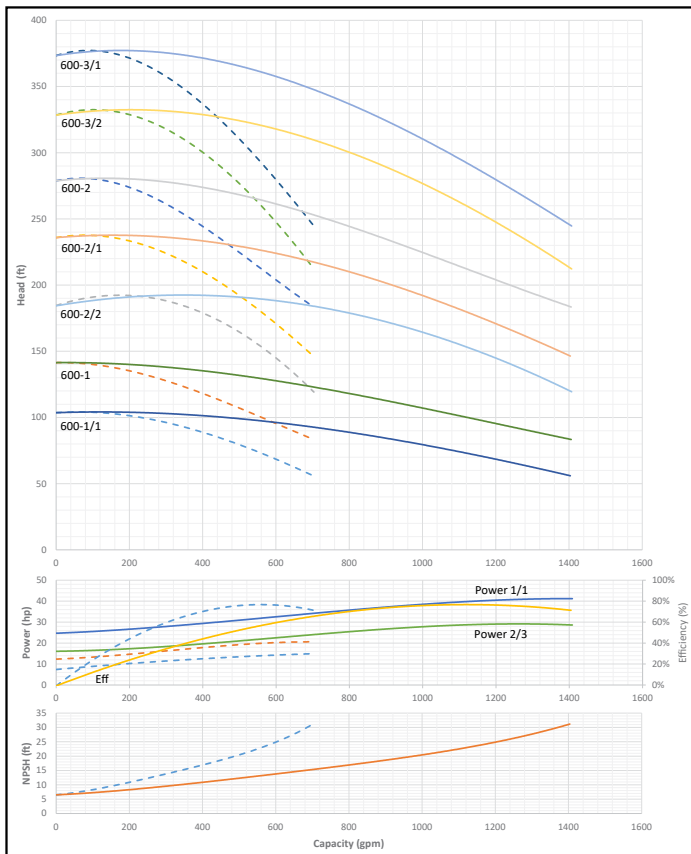


### CO2 MVI-1SB-600



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 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

#### 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

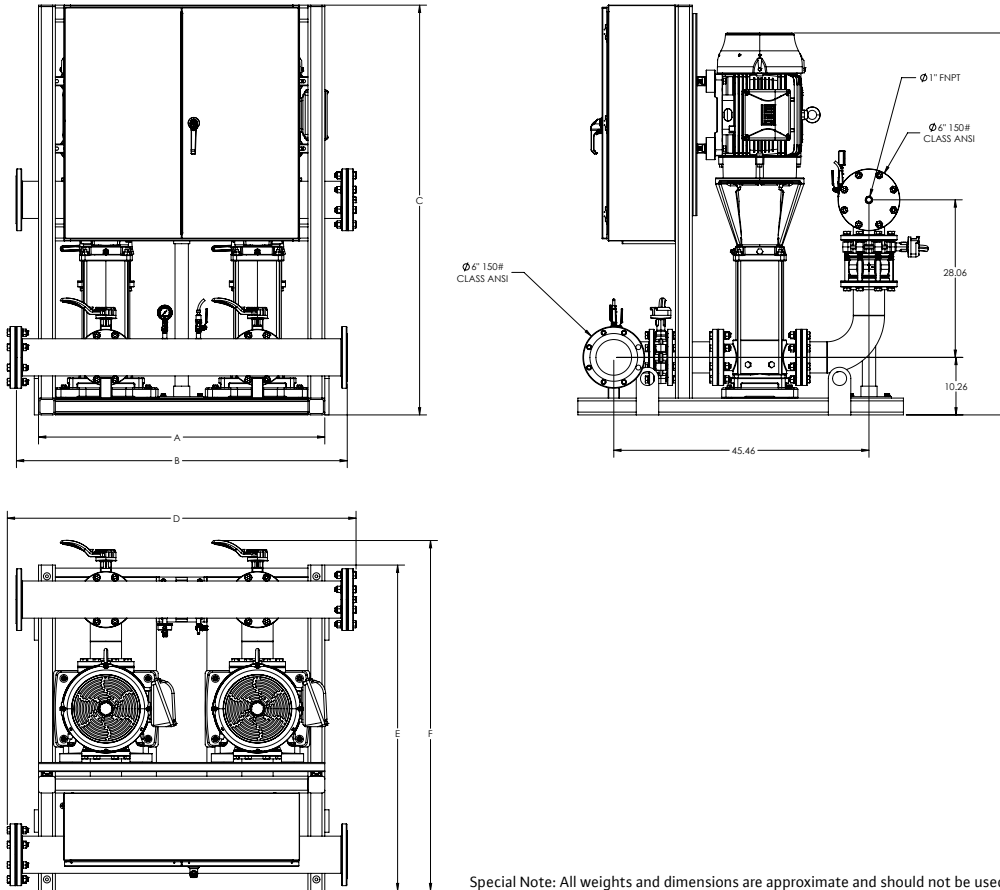
# Submittal Data Sheet

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



### CO2 MVI-1SB-600

#### 150# Discharge



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

### CO2 MVI-1SB-600

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-600-1/1	3354849	20	208V-230V	~3	6" 150#	232	48	56	73	59.13	58	62.4	57.12	2151.44	50.2-45.4	106.4	
CO2 MVI-1SB-600-1	3354850	25	208V-230V	~3	6" 150#	232	48	56	73	59.13	58	62.39	59.83	2307.21	63.0-57.6	131	
CO2 MVI-1SB-600-2/2	3354851	40	208V-230V	~3	6" 150#	232	51	59	91	62.13	58	64.02	68.05	2747.62	101-92.6	208.4	
CO2 MVI-1SB-600-2/1	3354852	40	208V-230V	~3	6" 150#	232	51	59	91	62.13	58	64.02	68.05	2763.77	101-92.6	208.4	
CO2 MVI-1SB-600-1/1	3355139	20	460V	~3	6" 150#	232	48	56	61	59.13	58	62.39	57.12	2126.24	22.7	50.4	
CO2 MVI-1SB-600-1	3355140	25	460V	~3	6" 150#	232	48	56	65	59.13	58	62.39	59.38	2366.76	28.8	59.6	
CO2 MVI-1SB-600-2/2	3355141	40	460V	~3	6" 150#	232	51	59	73	62.13	58	62.39	68.05	3036.8	46.3	99.4	
CO2 MVI-1SB-600-2/1	3355142	40	460V	~3	6" 150#	232	51	59	73	62.13	58	62.39	68.05	3036.8	46.3	99.4	
CO2 MVI-1SB-600-2	3355143	50	460V	~3	6" 150#	232	51	59	73	62.13	58	62.39	68.05	2814.18	56.1	122.2	
CO2 MVI-1SB-600-3/2	3355144	60	460V	~3	6" 150#	232	57	65	73	68.13	58	62.39	76.91	3441.4	67	146	
CO2 MVI-1SB-600-3/1	3355145	60	460V	~3	6" 150#	232	57	65	73	68.13	58	62.39	76.91	3441.74	67	146	
CO2 MVI-1SB-600-1/1	3355429	20	575V	~3	6" 150#	232	48	56	65	59.13	58	62.39	57.12	2122.06	18.2	43.8	
CO2 MVI-1SB-600-1	3355430	25	575V	~3	6" 150#	232	48	56	73	59.13	58	62.39	59.38	2293.21	23	52.4	
CO2 MVI-1SB-600-2/2	3355431	40	575V	~3	6" 150#	232	51	59	73	62.13	58	62.39	68.05	2716.2	37	86.8	
CO2 MVI-1SB-600-2/1	3355432	40	575V	~3	6" 150#	232	51	59	73	62.13	58	62.39	68.05	2716.2	37	86.8	
CO2 MVI-1SB-600-2	3355433	50	575V	~3	6" 150#	232	51	59	91	62.13	58	64.02	68.05	2833.75	44.9	105	
CO2 MVI-1SB-600-3/2	3355434	60	575V	~3	6" 150#	232	57	65	91	68.13	58	65.02	76.91	3490.97	53.6	127.6	
CO2 MVI-1SB-600-3/1	3355435	60	575V	~3	6" 150#	232	57	65	91	68.13	58	65.02	76.91	3491.31	53.6	127.6	

# Submittal Data Sheet

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

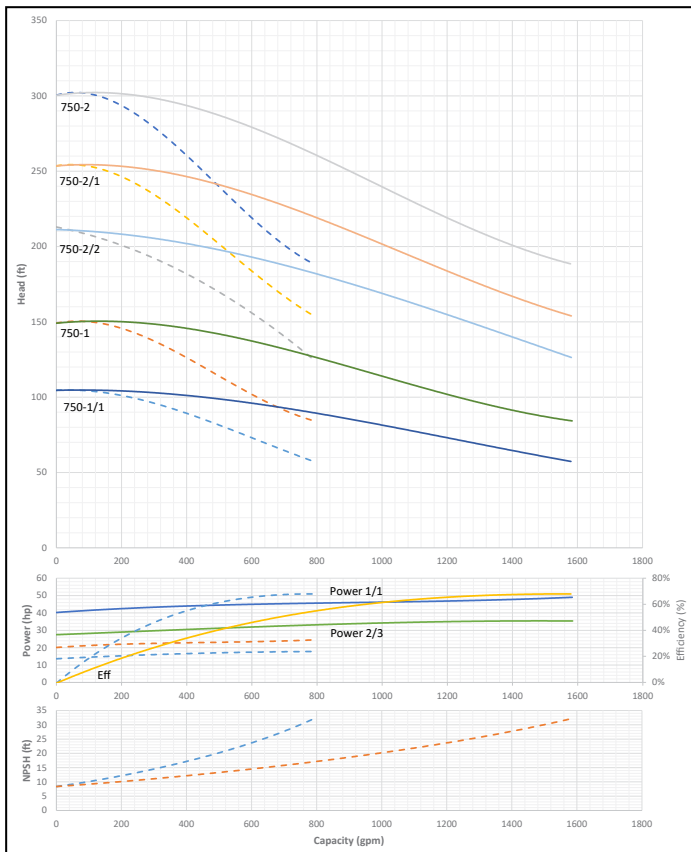


### CO2 MVI-750



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO2 MVI-750				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

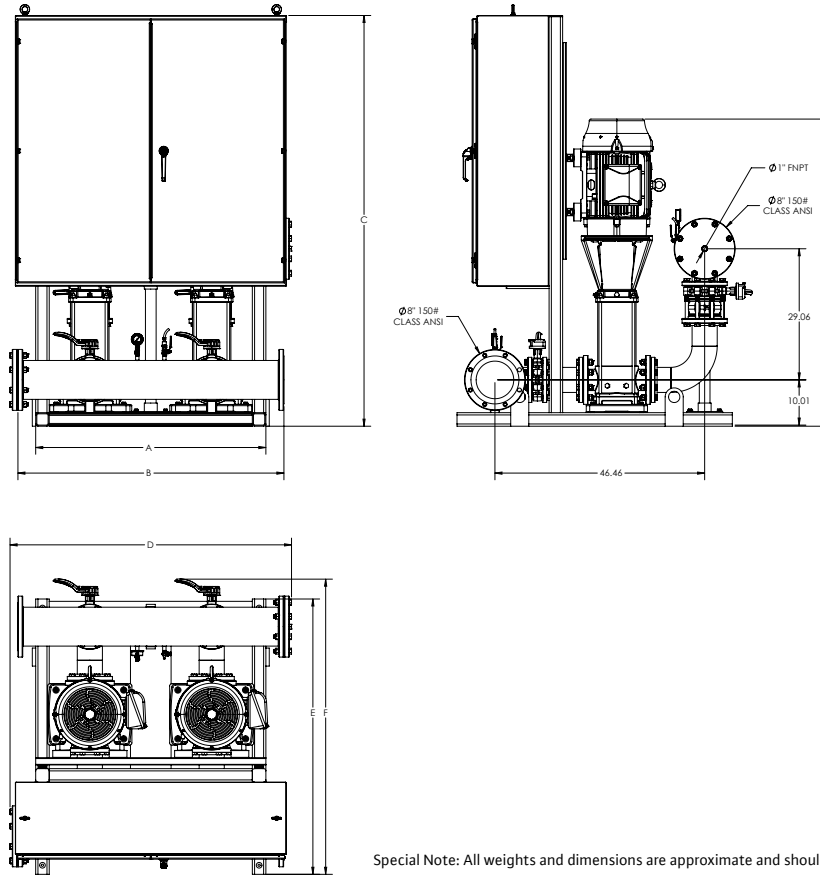
# Submittal Data Sheet

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



### CO2 MVI-750

#### 150# Discharge



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

### CO2 MVI-750

#### 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)	Motor FLA (per pump) (A)	System FLA
CO2 MVI-750-1/1	3353312	25	208V-230V	~3	8" 150#	232	48	56	73	59.37	61	65.41	59.38	2379.26	63.0-57.6	131
CO2 MVI-750-1	3353313	30	208V-230V	~3	8" 150#	232	48	56	91	59.37	61	65.38	59.38	2457.71	76.7-68.4	153
CO2 MVI-750-2/2	3353314	40	208V-230V	~3	8" 150#	232	51	59	91	62.37	61	65.38	68.05	2818.88	101-92.6	208.4
CO2 MVI-750-1/1	3353801	25	460V	~3	8" 150#	232	48	56	65	59.37	61	65.41	59.38	2438.81	28.8	59.6
CO2 MVI-750-1	3353802	30	460V	~3	8" 150#	232	48	56	65	59.37	61	65.41	59.38	2461.87	34.2	70.2
CO2 MVI-750-2/2	3353803	40	460V	~3	8" 150#	232	51	59	73	62.37	61	65.41	68.05	3092.09	46.3	99.4
CO2 MVI-750-2/1	3353804	50	460V	~3	8" 150#	232	51	59	73	62.37	61	65.41	68.05	2868.21	56.1	122.2
CO2 MVI-750-2	3353805	60	460V	~3	8" 150#	232	57	65	73	68.37	61	65.41	70.78	3453.79	67	146
CO2 MVI-750-1/1	3354290	25	575V	~3	8" 150#	232	48	56	73	59.37	61	65.41	59.38	2365.26	23	52.4
CO2 MVI-750-1	3354291	30	575V	~3	8" 150#	232	48	56	73	59.37	61	65.41	59.38	2404.32	27.4	64
CO2 MVI-750-2/2	3354292	40	575V	~3	8" 150#	232	51	59	73	62.37	61	65.41	68.05	2771.49	37	86.8
CO2 MVI-750-2/1	3354293	50	575V	~3	8" 150#	232	51	59	91	62.37	61	65.41	68.05	2887.6	44.9	105
CO2 MVI-750-2	3354294	60	575V	~3	8" 150#	232	57	65	91	68.37	61	65.41	70.78	3503.37	53.6	127.6

# Submittal Data Sheet

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

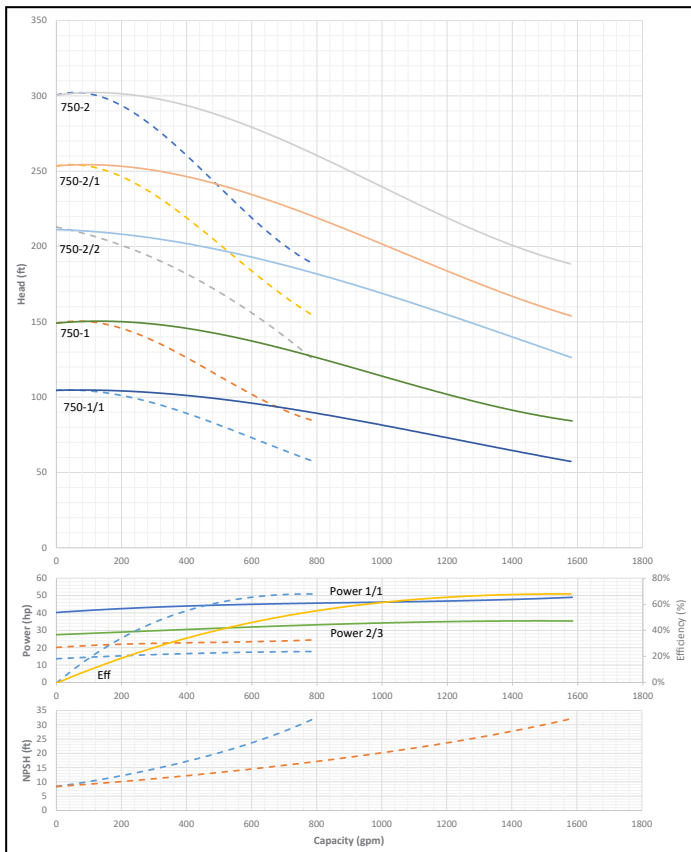


### CO2 MVI-1SB-750



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-750				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



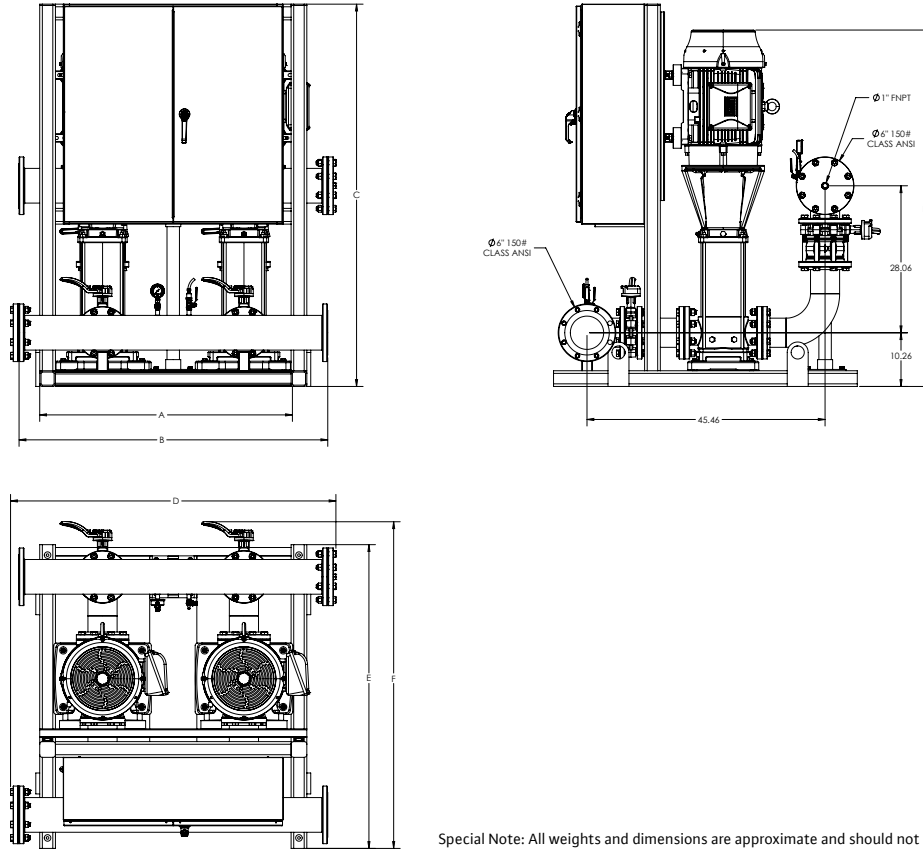
# Submittal Data Sheet

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



### CO2 MVI-1SB-750

#### 150# Discharge



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

CO2 MVI-1SB-750															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-750-1/1	3354861	25	208V-230V	~3	6" 150#	232	48	56	73	59.13	58	62.39	59.38	2321.7	63.0-57.6	131	
CO2 MVI-1SB-750-1	3354862	30	208V-230V	~3	6" 150#	232	48	56	91	59.13	58	62.39	59.38	2400.33	76.7-68.4	153	
CO2 MVI-1SB-750-2/2	3354863	40	208V-230V	~3	6" 150#	232	51	59	91	62.13	58	64.02	68.05	2761.24	101-92.6	208.4	
CO2 MVI-1SB-750-1/1	3355151	25	460V	~3	6" 150#	232	48	56	65	59.13	58	62.39	59.38	2381.26	28.8	59.6	
CO2 MVI-1SB-750-1	3355152	30	460V	~3	6" 150#	232	48	56	65	59.13	58	62.39	59.38	2404.32	34.2	70.2	
CO2 MVI-1SB-750-2/2	3355153	40	460V	~3	6" 150#	232	51	59	73	62.13	58	62.39	68.05	3034.27	46.3	99.4	
CO2 MVI-1SB-750-2/1	3355154	50	460V	~3	6" 150#	232	51	59	73	62.13	58	62.39	68.05	2810.39	56.1	122.2	
CO2 MVI-1SB-750-2	3355155	60	460V	~3	6" 150#	232	57	65	73	68.13	58	62.39	70.78	3395.45	67	146	
CO2 MVI-1SB-750-1/1	3355441	25	575V	~3	6" 150#	232	48	56	73	59.13	58	62.39	59.38	2307.7	23	52.4	
CO2 MVI-1SB-750-1	3355442	30	575V	~3	6" 150#	232	48	56	73	59.13	58	62.39	59.38	2346.76	27.4	64	
CO2 MVI-1SB-750-2/2	3355443	40	575V	~3	6" 150#	232	51	59	73	62.13	58	62.39	68.05	2713.67	37	86.8	
CO2 MVI-1SB-750-2/1	3355444	50	575V	~3	6" 150#	232	51	59	91	62.13	58	62.39	68.05	2829.96	44.9	105	
CO2 MVI-1SB-750-2	3355445	60	575V	~3	6" 150#	232	57	65	91	68.13	58	65.02	70.78	3445.02	53.6	127.6	