

# Submittal Data Sheet

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

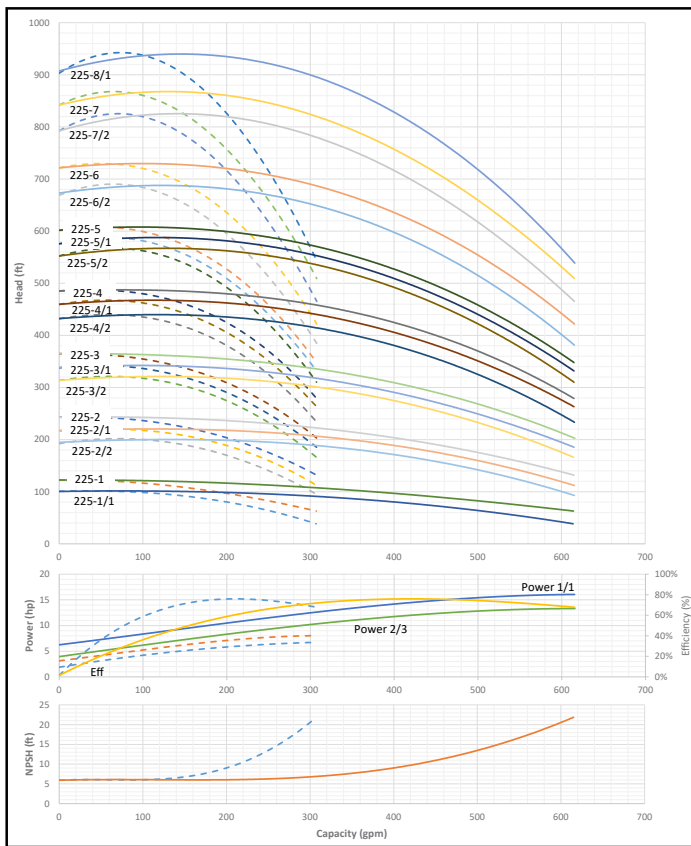


### CO2 MVI-1SB-225



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							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

Voltage	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

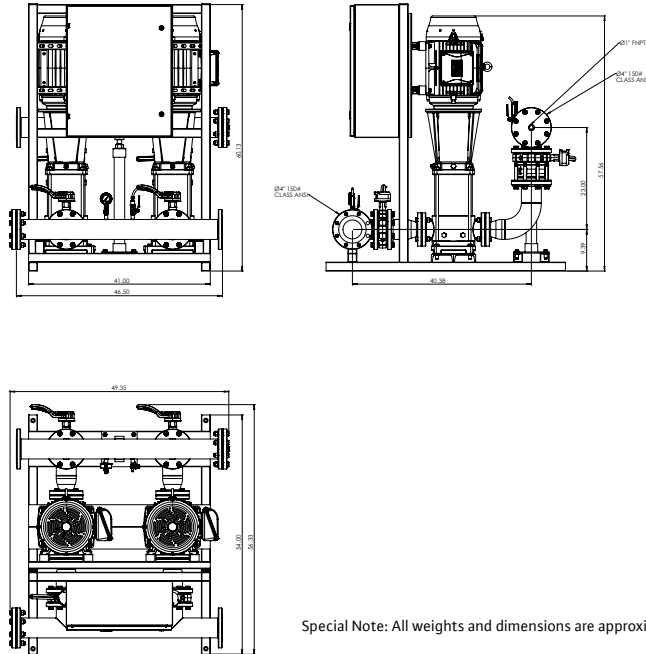
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## Wilo-CO MVI - NSF 61/372 Pressure Boosting System



### 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)	
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

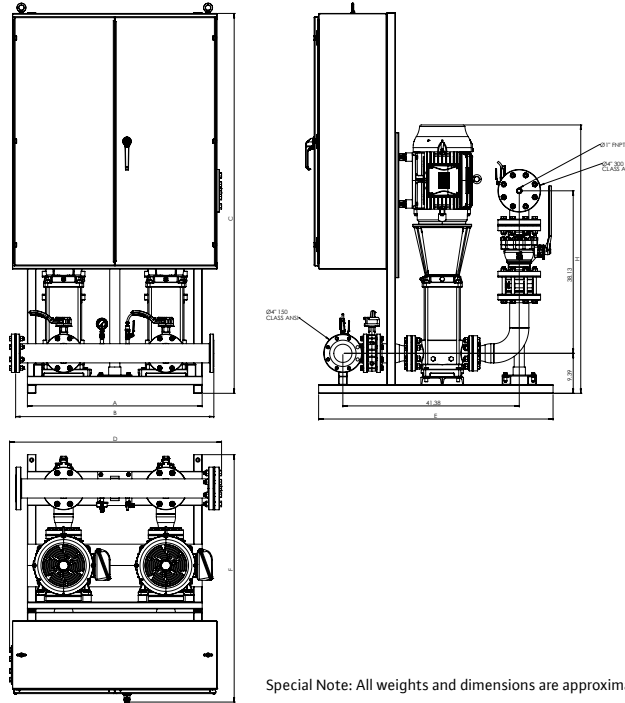
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## Wilo-CO MVI - NSF 61/372 Pressure Boosting System



### 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