

# Submittal Data Sheet

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

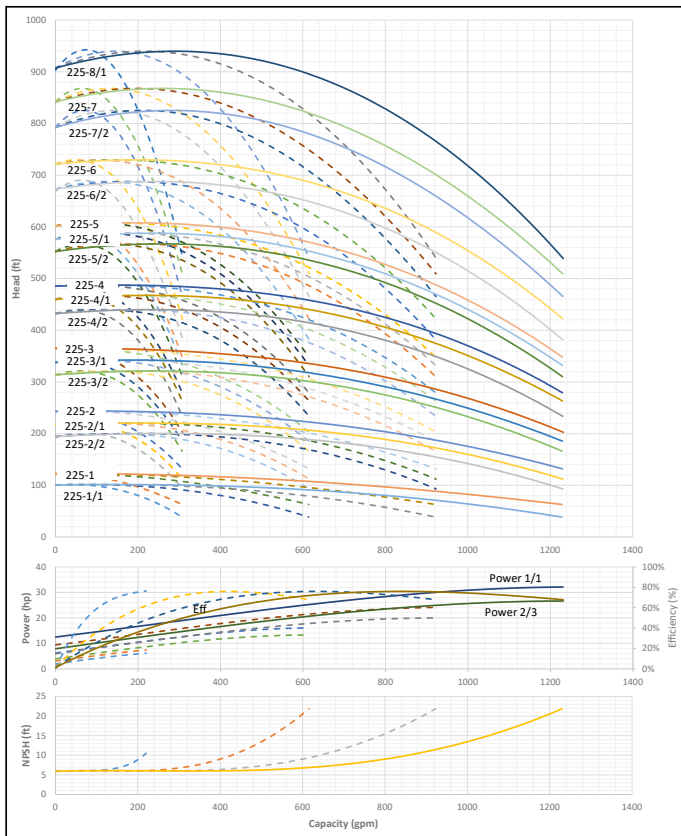


### CO4 MVI-225



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO4 MVI-225				1			3600



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

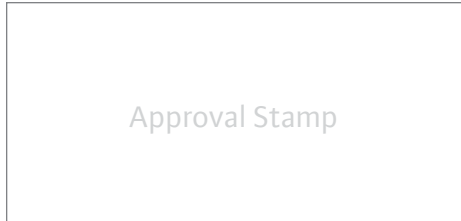
Materials of Construction	
Volute	AISI 304 Stainless Steel with Cast Iron ANSI flanges
Impeller	AISI 304 Stainless Steel
Shaft	ANSI 431 Stainless Steel
Elastomers	EPDM
Manifold	AISI 304 Stainless Steel
Suction Isolation Valves	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components
Discharge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

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

Technical Data - Panel	
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



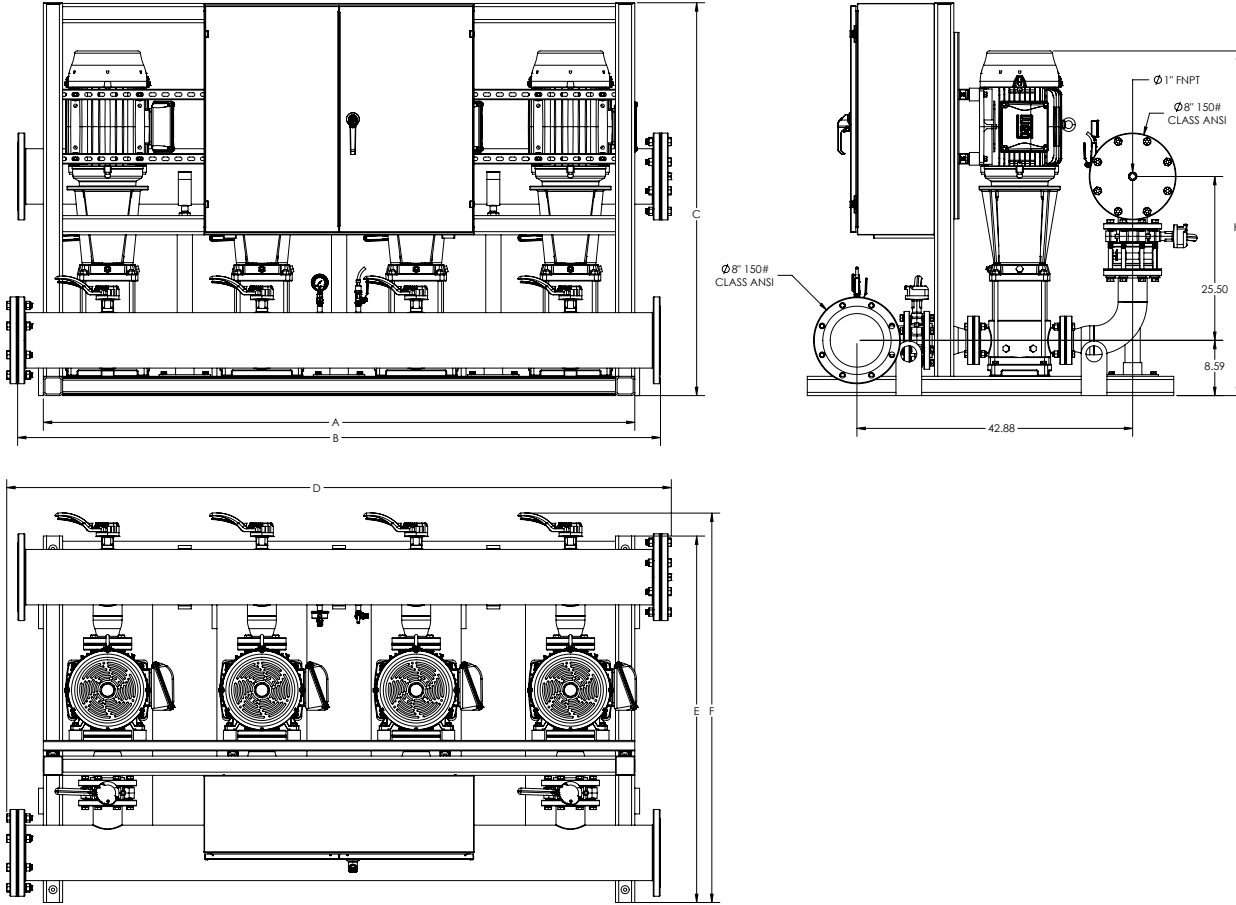
# Submittal Data Sheet

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



### CO4 MVI-225

#### 150# Discharge



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

### CO3 MVI-160

															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)	
CO4 MVI-225-1/1	3353597	7.5	208V-230V	~3	8" 150#	232	67.25	75.25	61.1	78.62	57	60.62	42	2863.06	19.2-17.3	85-73
CO4 MVI-225-1	3353598	7.5	208V-230V	~3	8" 150#	232	67.25	75.25	61.1	78.62	57	60.62	42	2863.18	19.2-17.3	85-73
CO4 MVI-225-2/2	3353599	15	208V-230V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.07	38.5-34.8	165-153.8
CO4 MVI-225-2/1	3353600	15	208V-230V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.15	38.5-34.8	165-153.8
CO4 MVI-225-2	3353601	15	208V-230V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.23	38.5-34.8	165-153.8
CO4 MVI-225-3/2	3353602	20	208V-230V	~3	8" 150#	232	92	100	91.1	103.37	59.76	60.62	56.76	3715.26	50.2-45.4	211.8
CO4 MVI-225-3/1	3353603	25	208V-230V	~3	8" 150#	232	92	100	91.1	103.37	57	60.62	59.02	4023.99	63.0-57.6	261
CO4 MVI-225-3	3353604	25	208V-230V	~3	8" 150#	232	92	100	91.1	103.37	59.76	60.62	59.02	4024.11	63.0-57.6	261
CO4 MVI-225-4/2	3353605	30	208V-230V	~3	8" 150#	232	92	100	103.1	103.37	59.76	60.62	62.17	4126.41	76.7-68.4	305
CO4 MVI-225-1/1	3354086	7.5	460V	~3	8" 150#	232	67.25	75.25	61.1	78.62	59.76	60.62	42	2562.77	8.67	45
CO4 MVI-225-1	3354087	7.5	460V	~3	8" 150#	232	67.25	75.25	61.1	78.62	59.76	60.62	42	2562.89	8.67	45
CO4 MVI-225-2/2	3354088	15	460V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.07	17.4	74.6
CO4 MVI-225-2/1	3354089	15	460V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.15	17.4	74.6
CO4 MVI-225-2	3354090	15	460V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.23	17.4	74.6
CO4 MVI-225-3/2	3354091	20	460V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	56.76	3884.39	22.7	99.8
CO4 MVI-225-3/1	3354092	25	460V	~3	8" 150#	232	92	100	61.1	103.37	59.76	60.62	59.02	4201.18	28.8	118.2
CO4 MVI-225-3	3354093	25	460V	~3	8" 150#	232	92	100	61.1	103.37	59.76	60.62	59.02	4201.3	28.8	118.2

# Submittal Data Sheet

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



CO4 MVI-225 150# Discharge															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)	
CO4 MVI-225-4/2	3354094	30	460V	~3	8" 150#	232	92	100	61.1	103.37	59.76	60.62	62.17	4277.46	34.2	139.4
CO4 MVI-225-1/1	3354575	7.5	575V	~3	8" 150#	232	67.25	75.25	61.1	78.62	59.76	60.62	42	2574.02	6.94	34.2
CO4 MVI-225-1	3354576	7.5	575V	~3	8" 150#	232	67.25	75.25	61.1	78.62	59.76	60.62	42	2574.14	6.94	34.2
CO4 MVI-225-2/2	3354577	15	575V	~3	8" 150#	232	92	100	69.1	103.37	59.76	60.62	53.61	3379.56	13.8	63.8
CO4 MVI-225-2/1	3354578	15	575V	~3	8" 150#	232	92	100	69.1	103.37	59.76	60.62	53.61	3379.64	13.8	63.8
CO4 MVI-225-2	3354579	15	575V	~3	8" 150#	232	92	100	69.1	103.37	59.76	60.62	53.61	3379.72	13.8	63.8
CO4 MVI-225-3/2	3354580	20	575V	~3	8" 150#	232	92	100	69.1	103.37	59.76	60.62	56.76	3443.88	18.2	86.6
CO4 MVI-225-3/1	3354581	25	575V	~3	8" 150#	232	92	100	91.1	103.37	57	60.62	59.02	3995.99	23	103.8
CO4 MVI-225-3	3354582	25	575V	~3	8" 150#	232	92	100	91.1	103.37	57	60.62	59.02	3996.11	23	103.8
CO4 MVI-225-4/2	3354583	30	575V	~3	8" 150#	232	92	100	91.1	103.37	57	60.62	62.17	4104.27	27.4	127

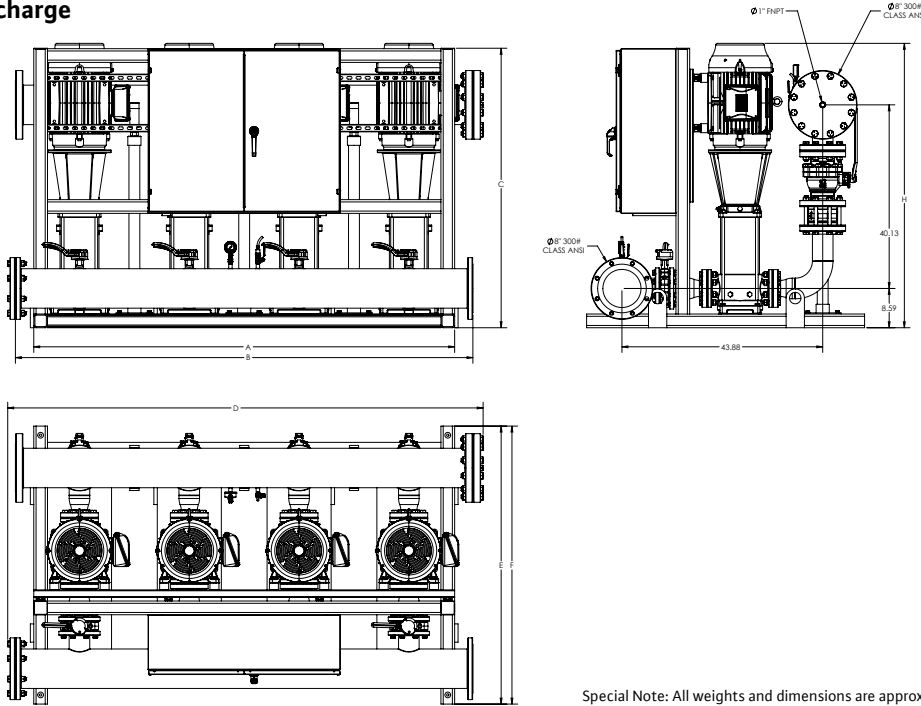
# Submittal Data Sheet

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



### CO4 MVI-225

#### 300# Discharge



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

### CO3 MVI-160

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)							TEFC Motor Data (Per Motor)		
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)	System Weight (Lbs)	Motor FLA (per pump)	System FLA
CO4 MVI-225-4/1	3353606	30	208V-230V	~3	8" 300#	435	92	100	103.1	103.87	60.76	60.76	62.17	4586.77	76.7-68.4	305
CO4 MVI-225-4	3353607	30	208V-230V	~3	8" 300#	435	92	100	103.1	103.87	60.76	60.76	62.17	4586.85	76.7-68.4	305
CO4 MVI-225-5/2	3353608	40	208V-230V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	67.87	5285.66	101-92.6	415.8
CO4 MVI-225-5/1	3353609	40	208V-230V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	67.87	5285.66	101-92.6	415.8
CO4 MVI-225-5	3353610	40	208V-230V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	67.87	5285.66	101-92.6	415.8
CO4 MVI-225-4/1	3354095	30	460V	~3	8" 300#	435	92	100	61.1	103.87	60.76	60.76	62.17	4737.82	34.2	139.4
CO4 MVI-225-4	3354096	30	460V	~3	8" 300#	435	92	100	61.1	103.87	60.76	60.76	62.17	4737.9	34.2	139.4
CO4 MVI-225-5/2	3354097	40	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5246.07	46.3	197.8
CO4 MVI-225-5/1	3354098	40	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5246.07	46.3	197.8
CO4 MVI-225-5	3354099	40	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5246.07	46.3	197.8
CO4 MVI-225-6/2	3354100	50	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	71.02	5489.03	56.1	243.4
CO4 MVI-225-6	3354101	50	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	71.02	5489.19	56.1	243.4
CO4 MVI-225-7/2	3354102	50	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	74.17	5521.35	56.1	243.4
CO4 MVI-225-7	3354103	60	460V	~3	8" 300#	435	121	129	92.1	132.87	60.76	61.71	77.9	6799.73	67	291
CO4 MVI-225-8/1	3354104	60	460V	~3	8" 300#	435	121	129	92.1	132.87	60.76	61.71	81.05	6827.85	67	291
CO4 MVI-225-4/1	3354584	30	575V	~3	8" 300#	435	92	100	91.1	103.87	60.76	60.76	62.17	4568.67	27.4	127
CO4 MVI-225-4	3354585	30	575V	~3	8" 300#	435	92	100	91.1	103.87	60.76	60.76	62.17	4568.75	27.4	127
CO4 MVI-225-5/2	3354586	40	575V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5262.07	37	172.6
CO4 MVI-225-5/1	3354587	40	575V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5262.07	37	172.6
CO4 MVI-225-5	3354588	40	575V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5262.07	37	172.6
CO4 MVI-225-6/2	3354589	50	575V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	71.02	5456.62	44.9	209
CO4 MVI-225-6	3354590	50	575V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	71.02	5456.78	44.9	209
CO4 MVI-225-7/2	3354591	50	575V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	74.17	5488.94	44.9	209
CO4 MVI-225-7	3354592	60	575V	~3	8" 300#	435	121	129	104.1	132.87	60.76	62.4	77.9	6829.58	53.6	254.2
CO4 MVI-225-8/1	3354593	60	575V	~3	8" 300#	435	121	129	104.1	132.87	60.76	62.4	81.05	6857.7	53.6	254.2