

Submittal Data Sheet

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

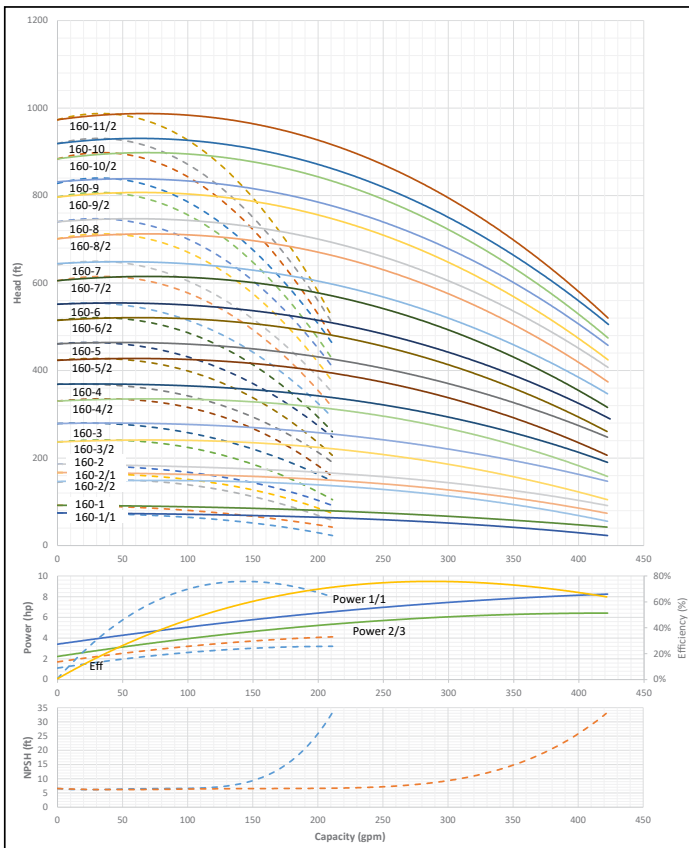


CO2 MVI-1SB-160



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							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

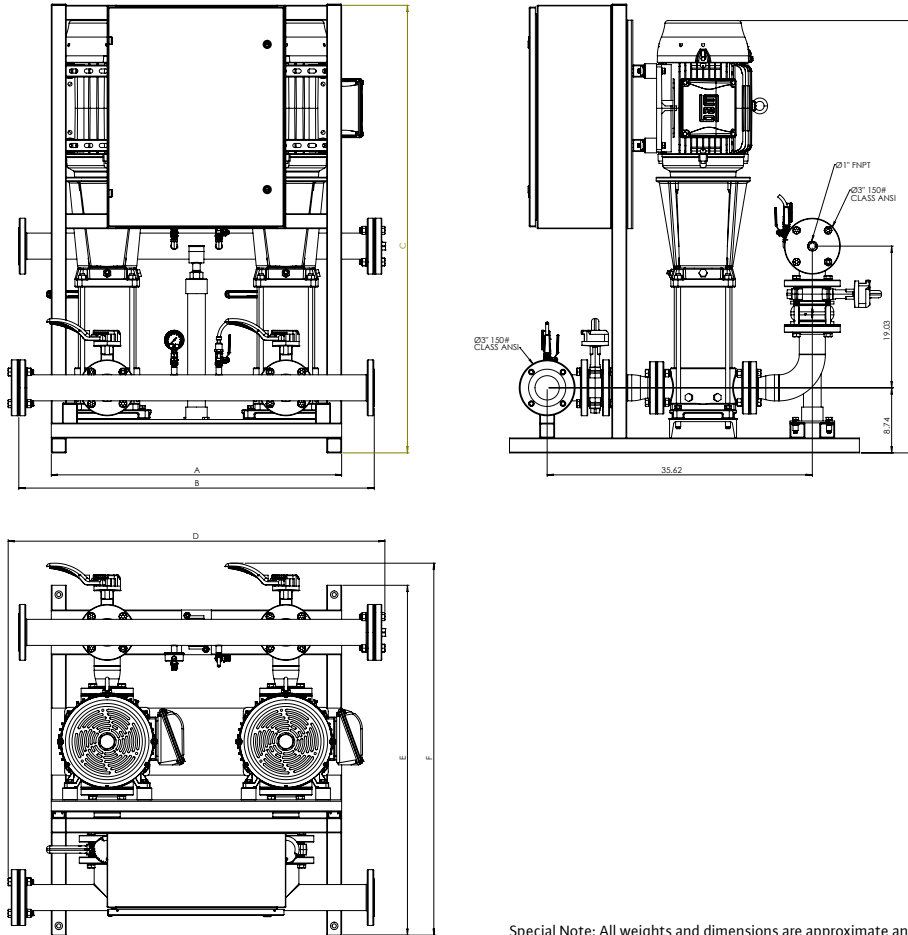
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CO2 MVI-1SB-160

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

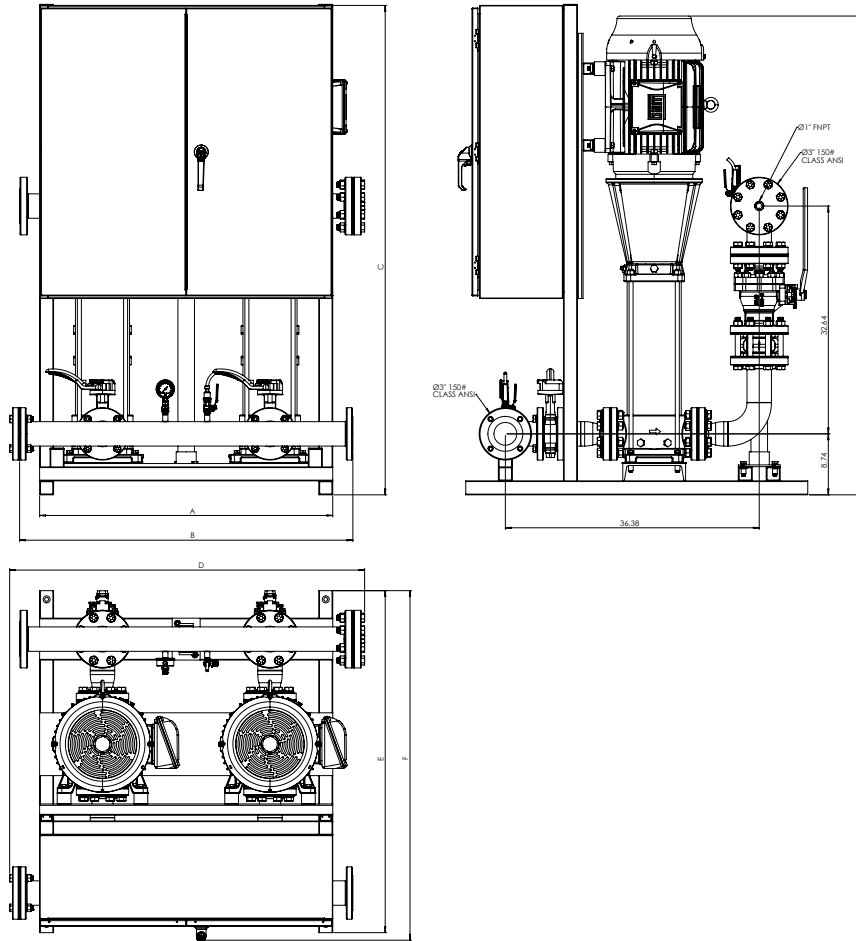
Submittal Data Sheet

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	

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



CO2 MVI-1SB-160 300# 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)	
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