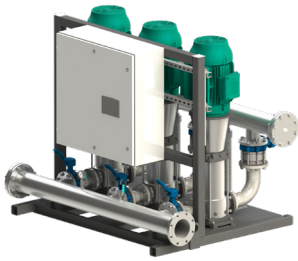


Submittal Data Sheet

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

wilo®

CO3 MVI-160



Project:

Engineer:

Contractor:

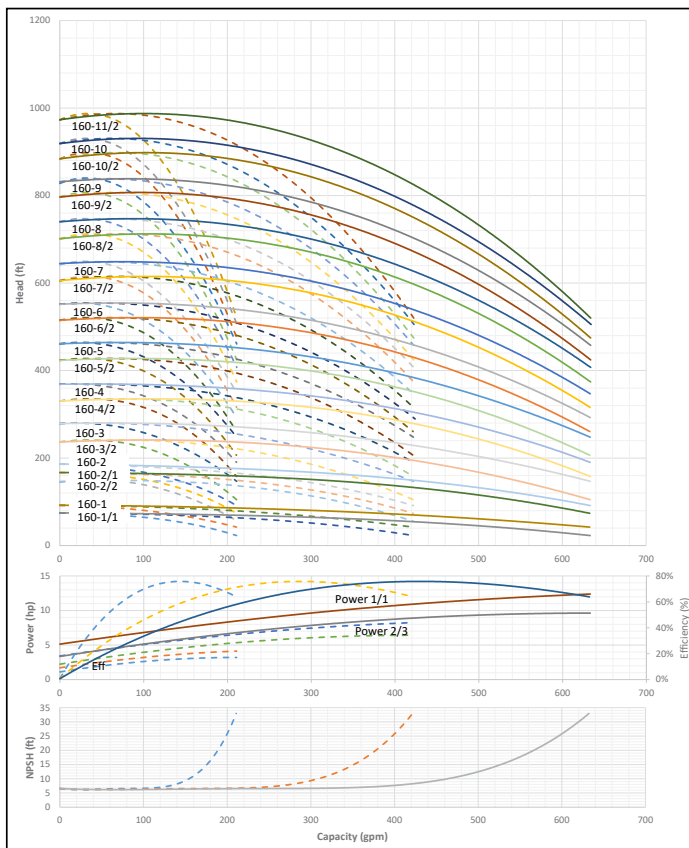
Submitted By:

Date:

Approved By:

Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO3 MVI-160				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

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

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

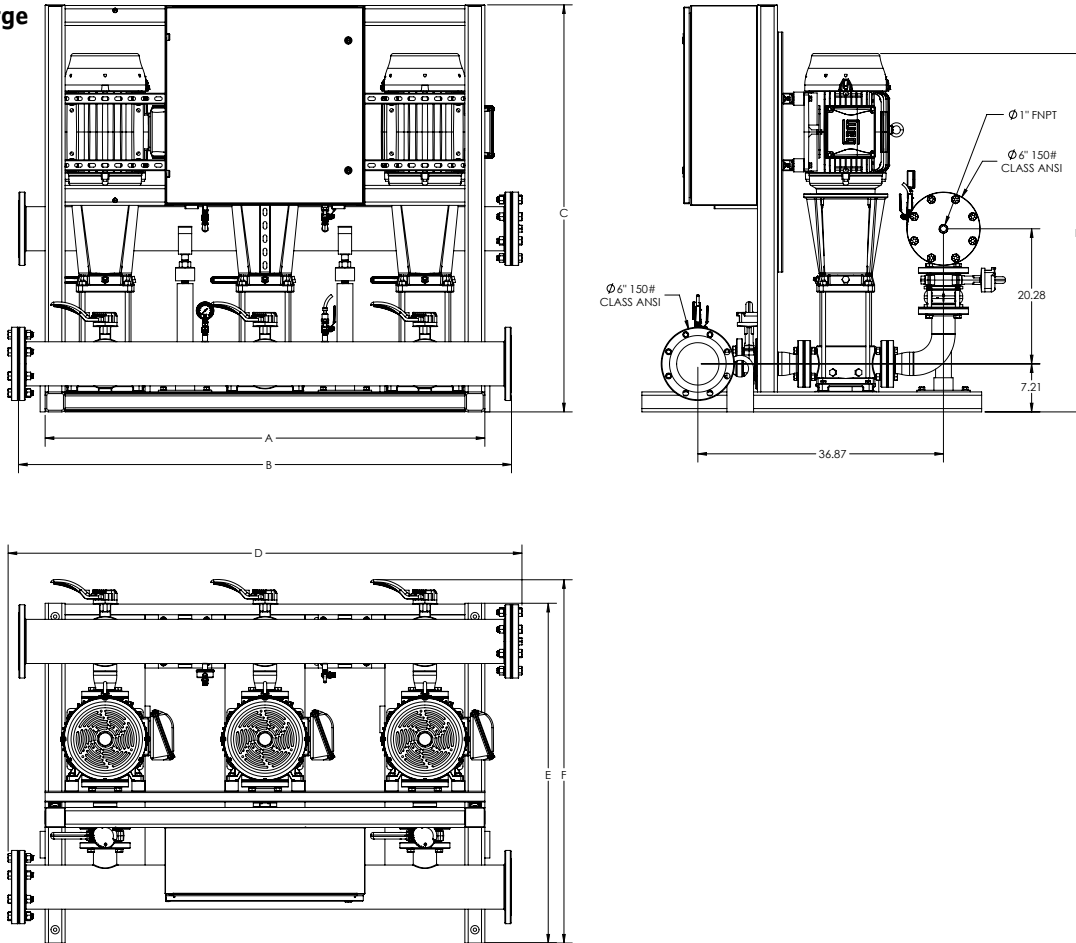
Submittal Data Sheet

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



CO3 MVI-160

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)

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)	
CO3 MVI-160-1/1	3353105	3	208V-230V	~1 IN / ~3 OUT	6" 150#	232	49.5	57.5	61	60.63	51	54.53	36.56	1484.88	8.12-7.34	46.6
CO3 MVI-160-1/1	3353412	3	208V-230V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	36.56	1484.88	8.12-7.34	29.8
CO3 MVI-160-1	3353413	5	208V-230V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	38.14	1530.48	13.1-11.8	46.6
CO3 MVI-160-2/2	3353414	7.5	208V-230V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	42.59	1705.71	19.2-17.3	64-55
CO3 MVI-160-2/1	3353415	7.5	208V-230V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	42.59	1705.71	19.2-17.3	64-55
CO3 MVI-160-2	3353416	7.5	208V-230V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	42.59	1705.71	19.2-17.3	64-55
CO3 MVI-160-3/2	3353417	10	208V-230V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	46.89	1806.66	25.4-23	85.9-73
CO3 MVI-160-3	3353418	15	208V-230V	~3	6" 150#	232	66	74	61	77.13	51	54.53	53.8	2676.53	38.5-34.8	124-115.6
CO3 MVI-160-4/2	3353419	15	208V-230V	~3	6" 150#	232	66	74	61	77.13	51	54.53	56.55	2696.09	38.5-34.8	124-115.6
CO3 MVI-160-4	3353420	15	208V-230V	~3	6" 150#	232	66	74	61	77.13	51	54.53	56.55	2696.36	38.5-34.8	124-115.6
CO3 MVI-160-5/2	3353421	20	208V-230V	~3	6" 150#	232	66	74	65	77.13	51	54.53	59.31	2490.22	50.2-45.4	159.1
CO3 MVI-160-5	3353422	20	208V-230V	~3	6" 150#	232	66	74	65	77.13	51	54.53	59.31	2490.88	50.2-45.4	159.1
CO3 MVI-160-1/1	3353901	3	460V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	36.56	1484.88	3.67	15.4
CO3 MVI-160-1	3353902	5	460V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	38.14	1530.48	5.9	25.6
CO3 MVI-160-2/2	3353903	7.5	460V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	42.59	1704.33	8.67	34
CO3 MVI-160-2/1	3353904	7.5	460V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	42.59	1704.33	8.67	34
CO3 MVI-160-2	3353905	7.5	460V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	42.59	1704.33	8.67	34

Submittal Data Sheet

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



CO3 MVI-160 150# 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)	
CO3 MVI-160-3/2	3353906	10	460V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	46.89	1805.28	11.5	43
CO3 MVI-160-3	3353907	15	460V	~3	6" 150#	232	66	74	61	77.13	51	54.53	53.8	2409	17.4	56.2
CO3 MVI-160-4/2	3353908	15	460V	~3	6" 150#	232	66	74	61	77.13	51	54.53	56.55	2428.56	17.4	56.2
CO3 MVI-160-4	3353909	15	460V	~3	6" 150#	232	66	74	61	77.13	51	54.53	56.55	2428.83	17.4	56.2
CO3 MVI-160-5/2	3353910	20	460V	~3	6" 150#	232	66	74	61	77.13	51	54.53	59.31	2472.66	22.7	75.1
CO3 MVI-160-5	3353911	20	460V	~3	6" 150#	232	66	74	61	77.13	51	54.53	59.31	2473.32	22.7	75.1
CO3 MVI-160-1/1	3354390	3	575V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	36.56	1486.86	2.9	11.5
CO3 MVI-160-1	3354391	5	575V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	38.14	1532.16	4.72	17.8
CO3 MVI-160-2/2	3354392	7.5	575V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	42.59	1711.71	6.94	25.9
CO3 MVI-160-2/1	3354393	7.5	575V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	42.59	1711.71	6.94	25.9
CO3 MVI-160-2	3354394	7.5	575V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	42.59	1711.71	6.94	25.9
CO3 MVI-160-3/2	3354395	10	575V	~3	6" 150#	232	49.5	57.5	61	60.63	51	54.53	46.89	1818.66	9.2	35.2
CO3 MVI-160-3	3354396	15	575V	~3	6" 150#	232	66	74	61	77.13	51	54.53	53.8	2569.53	13.8	48.1
CO3 MVI-160-4/2	3354397	15	575V	~3	6" 150#	232	66	74	61	77.13	51	54.53	56.55	2589.09	13.8	48.1
CO3 MVI-160-4	3354398	15	575V	~3	6" 150#	232	66	74	61	77.13	51	54.53	56.55	2589.36	13.8	48.1
CO3 MVI-160-5/2	3354399	20	575V	~3	6" 150#	232	66	74	61	77.13	51	54.53	59.31	2633.19	18.2	65.2
CO3 MVI-160-5	3354400	20	575V	~3	6" 150#	232	66	74	61	77.13	51	54.53	59.31	2633.85	18.2	65.2

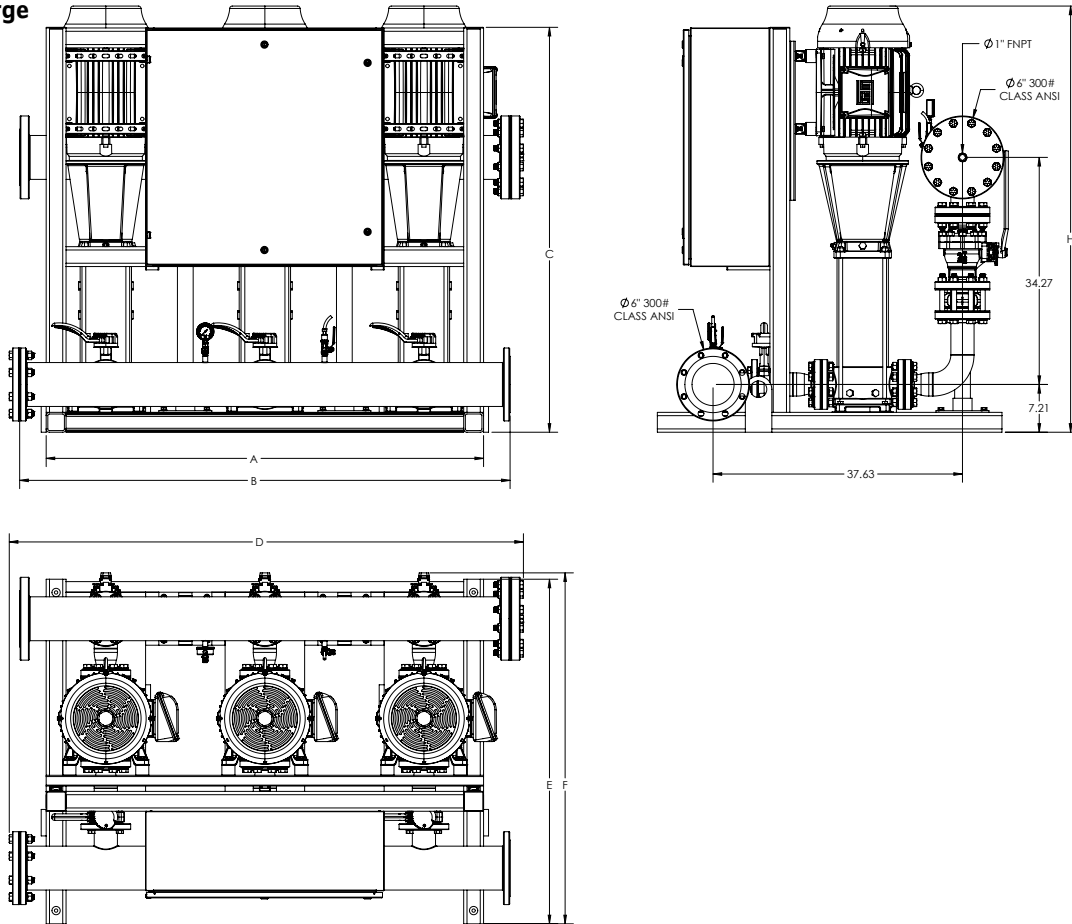
Submittal Data Sheet

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



CO3 MVI-160

300# 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)

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)	
CO3 MVI-160-6/2	3353423	25	208V-230V	~3	6" 300#	435	66	74	65	77.57	52	52.96	64.32	3000.7	63.0-57.6	196
CO3 MVI-160-6	3353424	25	208V-230V	~3	6" 300#	435	66	74	65	77.57	52	52.96	64.32	3001.36	63.0-57.6	196
CO3 MVI-160-7/2	3353425	30	208V-230V	~3	6" 300#	435	66	74	87	77.57	52	55.06	67.08	3139.79	76.7-68.4	229
CO3 MVI-160-7	3353426	30	208V-230V	~3	6" 300#	435	66	74	87	77.57	52	55.06	67.08	3140.45	76.7-68.4	229
CO3 MVI-160-8/2	3353427	30	208V-230V	~3	6" 300#	435	66	74	87	77.57	52	55.06	69.83	3161.33	76.7-68.4	229
CO3 MVI-160-8	3353428	40	208V-230V	~3	6" 300#	435	72	80	87	83.57	52	56.07	72.38	3643	101-92.6	312.1
CO3 MVI-160-9/2	3353429	40	208V-230V	~3	6" 300#	435	72	80	87	83.57	52	56.07	75.14	3661	101-92.6	312.1
CO3 MVI-160-9	3353430	40	208V-230V	~3	6" 300#	435	72	80	87	83.57	52	56.07	75.14	3661	101-92.6	312.1
CO3 MVI-160-10/2	3353431	40	208V-230V	~3	6" 300#	435	72	80	87	83.57	52	56.07	77.9	3679	101-92.6	312.1
CO3 MVI-160-10	3353432	40	208V-230V	~3	6" 300#	435	72	80	87	83.57	52	56.07	77.9	3679	101-92.6	312.1
CO3 MVI-160-11/2	3353433	40	208V-230V	~3	6" 300#	435	72	80	87	83.57	52	56.07	80.65	3697	101-92.6	312.1
CO3 MVI-160-6/2	3353912	25	460V	~3	6" 300#	435	66	74	61	77.57	52	52.96	64.32	3250.66	28.8	88.9
CO3 MVI-160-6	3353913	25	460V	~3	6" 300#	435	66	74	61	77.57	52	52.96	64.32	3251.32	28.8	88.9
CO3 MVI-160-7/2	3353914	30	460V	~3	6" 300#	435	66	74	63	77.57	52	52.96	67.08	3303.76	34.2	104.8
CO3 MVI-160-7	3353915	30	460V	~3	6" 300#	435	66	74	63	77.57	52	52.96	67.08	3304.42	34.2	104.8
CO3 MVI-160-8/2	3353916	30	460V	~3	6" 300#	435	66	74	66	77.57	52	52.96	69.83	3329.67	34.2	104.8
CO3 MVI-160-8	3353917	40	460V	~3	6" 300#	435	72	80	68	83.57	52	52.71	72.38	3559.98	46.3	148.6

Submittal Data Sheet

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



CO3 MVI-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)	
CO3 MVI-160-9/2	3353918	40	460V	~3	6" 300#	435	72	80	70	83.57	52	52.71	75.14	3580.9	46.3	148.6
CO3 MVI-160-9	3353919	40	460V	~3	6" 300#	435	72	80	70	83.57	52	52.71	75.14	3580.9	46.3	148.6
CO3 MVI-160-10/2	3353920	40	460V	~3	6" 300#	435	72	80	73	83.57	52	52.71	77.9	3603.27	46.3	148.6
CO3 MVI-160-10	3353921	40	460V	~3	6" 300#	435	72	80	73	83.57	52	52.71	77.9	3603.27	46.3	148.6
CO3 MVI-160-11/2	3353922	40	460V	~3	6" 300#	435	72	80	76	83.57	52	52.71	80.65	3625.65	46.3	148.6
CO3 MVI-160-6/2	3354401	25	575V	~3	6" 300#	435	66	74	65	77.57	52	52.96	64.32	2979.7	23	78.1
CO3 MVI-160-6	3354402	25	575V	~3	6" 300#	435	66	74	65	77.57	52	52.96	64.32	2980.36	23	78.1
CO3 MVI-160-7/2	3354403	30	575V	~3	6" 300#	435	66	74	65	77.57	52	52.96	67.08	3056.77	27.4	95.5
CO3 MVI-160-7	3354404	30	575V	~3	6" 300#	435	66	74	65	77.57	52	52.96	67.08	3057.43	27.4	95.5
CO3 MVI-160-8/2	3354405	30	575V	~3	6" 300#	435	66	74	65	77.57	52	52.96	69.83	3078.31	27.4	95.5
CO3 MVI-160-8	3354406	40	575V	~3	6" 300#	435	72	80	68	83.57	52	52.71	72.38	3571.98	37	129.7
CO3 MVI-160-9/2	3354407	40	575V	~3	6" 300#	435	72	80	70	83.57	52	52.71	75.14	3592.9	37	129.7
CO3 MVI-160-9	3354408	40	575V	~3	6" 300#	435	72	80	70	83.57	52	52.71	75.14	3592.9	37	129.7
CO3 MVI-160-10/2	3354409	40	575V	~3	6" 300#	435	72	80	73	83.57	52	52.71	77.9	3615.27	37	129.7
CO3 MVI-160-10	3354410	40	575V	~3	6" 300#	435	72	80	73	83.57	52	52.71	77.9	3615.27	37	129.7
CO3 MVI-160-11/2	3354411	40	575V	~3	6" 300#	435	72	80	76	83.57	52	52.71	80.65	3637.65	37	129.7