



MYERS°
3V AND 3VX

3" SOLIDS HANDLING WASTEWATER PUMPS STANDARD (3V) AND HAZARDOUS LOCATION (3VX) CONSTRUCTION

MYERS® 3V AND 3VX TECHNICAL INFORMATION



THE IDEAL CHOICE WHEN SELECTING A PUMP FOR YOUR NEXT APPLICATION

MYERS 3V and 3VX (hazardous location) submersible wastewater pumps pass a full 2-1/2" spherical solid. MYERS rounded port, 2-vane, enclosed impeller prevents solids from binding or clogging and offers high operating efficiencies to cut your pumping costs. The 3V series modified constant velocity volute case provides smooth operation over an extended portion of the performance curve for extended seal and bearing life. For use in municipal lift stations, treatment plants and industrial waste applications. MYERS offers a complete line of wastewater pumps, lift-out rail assemblies, controls and accessories to meet your needs.

HIGH EFFICIENCY HYDRAULIC DESIGN CUTS PUMPING COSTS AND EXTENDS LIFE OF FLUID END COMPONENTS.

- Two-vane, rounded port, enclosed type impeller handles 2-1/2" solids with ease at high operating efficiencies.
- Modified constant velocity volute offers quiet operation, low radial loads over extended portion of performance curve.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE.

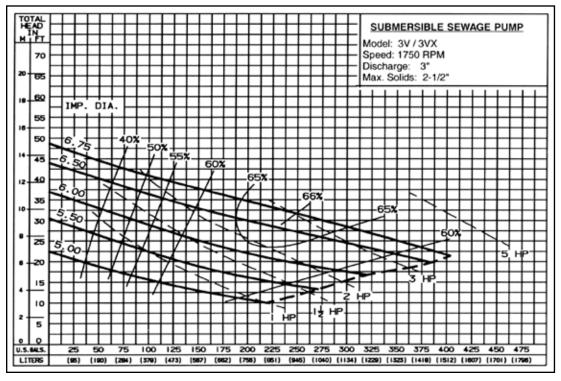
- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Heat sensor thermostats embedded in windings protect motor from overheat conditions.
- Seal leak probes warn of moisture entry; help prevent costly motor burnout.
- Double tandem shaft seals prevent sewage from entering motor.
- Power and control cables are double sealed with epoxy and compression grommet.

Product Capabilities								
Capacities To	400 gpm	25.24 lps						
Heads To	48 ft.	14.6 m						
Solids Handling Capacity	2-1/2 in.	63.5 mm						
Liquids Handling	raw unscreened sewage, effluent, storm water							
Intermittent Liquid Temp.	up to 140°F	up to 60°C						
Winding Insulation Temp. (Class F)	311°F	155°C						
Motor Electrical Data	1750 RPM 1 – 5 HP, 230V, 1Ø, 60 Hz 1 – 5 HP, 200/230/460/575V, 3Ø, 60 Hz							
Std. Third Party Approvals	CSA							
Optional Approvals	FM Class 1, Groups C & D (3VX only)							
Acceptable pH Range	6 – 9							
Specific Gravity	.9 – 1.1							
Viscosity	28 – 35 SSU							
Discharge (Flange Dim.)	3 in.	76 mm						

NOTE: Consult factory for applications outside these recommendations.

Construction Materials								
Motor Housing, Seal Housing, Cord Cap and Volute Case	cast iron, Class 30, ASTM A48							
Enclosed 2-Vane Impeller	ductile iron, Class 65, ASTM A536							
Power Cord	S00W, W							
Control Cord	S00W							
Mechanical Seals Standard Optional	double tandem, type 21 carbon and ceramic lower tungsten, carbide							
Pump, Motor Shaft	416 SST							
Fasteners	300 series SST							
Volute Wear Ring	brass							

1750 RPM PERFORMANCE CURVE



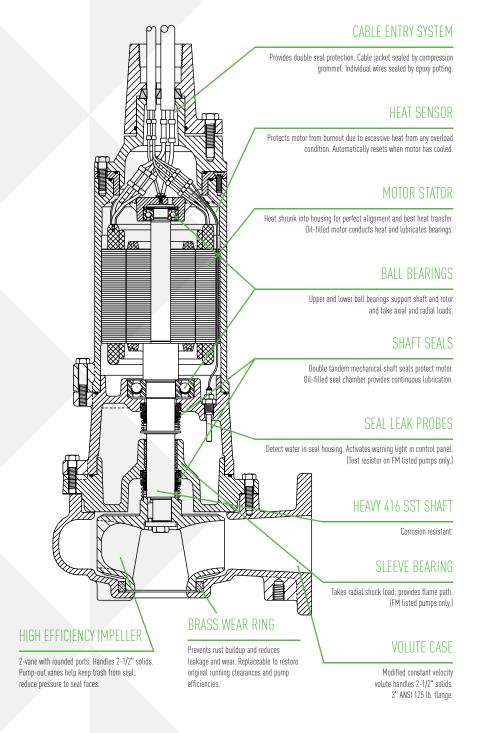
Pump performance is based on clear water (1.0 specific gravity (0 68°F) and pump fluid end (hydraulic) efficiency. Motor data based on 40°C ambient temperature.

Available	e Models	Motor Electrical Data											
Standard	Hazardous Location	HP	Volts	Phase	Hertz	Start Amps	Full Load Amps	Service Factor Amps	Full Load kW	Start KVA	Full Load KVA	NEC Code Letter	Service Factor
3V10M4-21	3VX10M4-21	1	230	1	60	71	8	10	1.3	16.3	1.8	N	1.2
3V10M4-03	3VX10M4-03	1	208	3	60	38	5.4	6.2	1.5	13.7	1.9	N	1.2
3V10M4-23	3VX10M4-23	1	230	3	60	34	4.5	5.4	1.5	13.5	1.8	N	1.2
3V10M4-43	3VX10M4-43	1	460	3	60	17	2.3	2.7	1.5	13.5	1.8	N	1.2
3V10M4-53	3VX10M4-53	1	575	3	60	14	1.8	2.2	1.5	13.9	1.8	N	1.2
3V15M4-21	3VX15M4-21	1.5	230	1	60	71	10	12	1.9	16.3	2.3	М	1.2
3V15M4-03	3VX15M4-03	1.5	208	3	60	38	6.6	8	2.0	13.7	2.4	L	1.2
3V15M4-23	3VX15M4-23	1.5	230	3	60	34	5.5	7	1.9	13.5	2.2	L	1.2
3V15M4-43	3VX15M4-43	1.5	460	3	60	17	2.8	3.5	1.9	13.5	2.2	L	1.2
3V15M4-53	3VX15M4-53	1.5	575	3	60	14	2.2	2.8	2.0	13.9	2.2	L	1.2
3V20M4-21	3VX20M4-21	2	230	1	60	66	12	14.4	2.4	15.2	2.8	J	1.2
3V20M4-03	3VX20M4-03	2	208	3	60	49	8.4	9.8	2.3	17.6	3.0	K	1.2
3V20M4-23	3VX20M4-23	2	230	3	60	44	7	7.6	2.2	17.5	2.8	K	1.2
3V20M4-43	3VX20M4-43	2	460	3	60	22	3.5	3.8	2.2	17.5	2.8	K	1.2
3V20M4-53	3VX20M4-53	2	575	3	60	18	2.8	3.4	2.2	17.9	2.8	K	1.2
3V30M4-21	3VX30M4-21	3	230	1	60	98	21	27	4.5	22.5	4.8	J	1.2
3V30M4-03	3VX30M4-03	3	208	3	60	51	15	18	4.2	18.4	5.4	G	1.2
3V30M4-23	3VX30M4-23	3	230	3	60	46	12	15	4.1	18.3	4.8	G	1.2
3V30M4-43	3VX30M4-43	3	460	3	60	23	6	7.5	4.1	18.3	4.8	G	1.2
3V30M4-53	3VX30M4-53	3	575	3	60	19	5	6	4.2	18.9	5.0	Н	1.2
3V50M4-21	3VX50M4-21	5	230	1	60	108	34	34	6.7	24.8	7.8	E	1.0
3V50M4-03	3VX50M4-03	5	208	3	60	106	24	24	7.3	38.1	8.6	J	1.0
3V50M4-23	3VX50M4-23	5	230	3	60	96	21	21	7.2	38.2	8.4	J	1.0
3V50M4-43	3VX50M4-43	5	460	3	60	48	10.5	10.5	7.2	38.2	8.4	J	1.0
3V50M4-53	3VX50M4-53	5	575	3	60	39	8.4	8.4	7.2	38.8	8.4	J	1.0

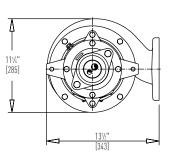
Motor Efficiencies and Power Factor											
Motor Efficiency %							Power Factor %				
HP	Phase	Service Factor Load	100% Load	75% Load	50% Load	Service Factor Load	100% Load	75% Load	50% Load		
1	1	74	72	67	59	83	75	67	56		
1	3	70	66	60	51	70	67	61	47		
1.5	1	73	74	67	68	86	83	78	67		
1.5	3	71	70	65	58	82	79	71	64		
2	1	75	76	75	69	90	88	84	75		
2	3	71	70	65	58	80	77	71	61		
3	1	67	70	68	62	88	88	85	78		
3	3	68	71	71	67	87	88	87	82		
5	1	66	69	68	61	86	87	84	75		
5	3	63	76	76	75	86	85	83	74		

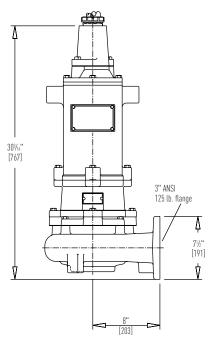
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ADVANTAGES BY DESIGN



DIMENSIONS [Dimensions in mm]







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