



AURORA[®]
Pentair Water

PVM Series

- PVM Vertical multi-stage pumps
- Flows up to 220 G.P.M. (50 M³/HR)
- Pressures to 398 PSI (27.4 Bar)

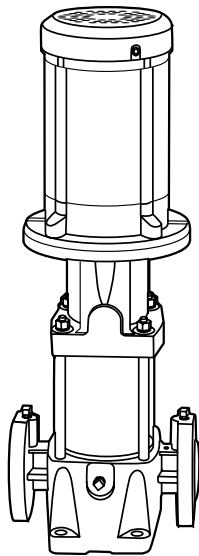
Typical Applications:

- Jockey Pumps for Fire Protection
- Commercial Pressure Boosting
- Car & Truck Wash Systems
- Boiler Feed, Condensate Systems
- Municipal Water Supply
- Agricultural & Commercial Irrigation
- Pressure-Spray & Wash-Down Systems
- Petrochemical: Refinery & Offshore
- Pulp, Paper, Lumber & Mining



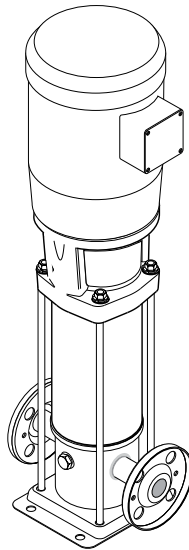
Technical Information

Models	Flow Series	HP Range	GPM
PVM/PVMX	2	1/2 – 5	1 – 20
PVM/PVMX	4	1/2 – 7.5	3 – 40
PVM/PVMX	8	3/4 – 15	5 – 65
PVM/PVMX	16	5 – 25	8 – 115
PVM	32	3 – 40	15 – 215



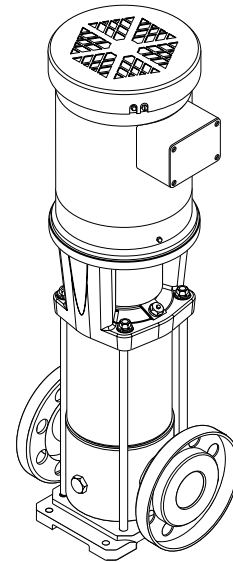
PVM2, 4, 8 & 16 Series

Cast Iron Construction



PVM (X) 2 & 4 Series

316 SS Construction



PVM (X) 8 & 16 Series

316 SS Construction

Technical Information for PVM2 & PVMX2	
Minimum Pumping Rates	1.2 GPM
Flow Range	1.2 – 20 GPM
Minimum Suction Pipe Sizes	1-1/4" Nominal Diameter, Schedule 40 Pipe
Maximum Inlet Pressure	30/2 - 60 – 145 PSI 70 - 180 – 220 PSI
Maximum Ambient Temperature	104° F
Liquid Temperature Range	+5° F to +250° F
Motor Options	TEFC or ODP

Technical Information for PVM8 & PVMX8	
Minimum Pumping Rates	5.3 GPM
Flow Range	5.3 – 65 GPM
Minimum Suction Pipe Sizes	2" Nominal Diameter, Schedule 40 Pipe
Maximum Inlet Pressure	20/1 - 40 – 90 PSI 50 - 160 – 145 PSI
Maximum Ambient Temperature	104° F
Liquid Temperature Range	+5° F to +250° F
Motor Options	TEFC or ODP

Technical Information for PVM4 & PVMX4	
Minimum Pumping Rates	3 GPM
Flow Range	3 – 40 GPM
Minimum Suction Pipe Sizes	1-1/4" Nominal Diameter, Schedule 40 Pipe
Maximum Inlet Pressure	20/1 - 20 – 90 PSI 30 - 80/7 – 145 PSI 80 - 160 – 220 PSI
Maximum Ambient Temperature	104° F
Liquid Temperature Range	+5° F to +250° F
Motor Options	TEFC or ODP

Technical Information for PVM16 & PVMX16	
Minimum Pumping Rates	8.5 GPM
Flow Range	8.5 – 115 GPM
Minimum Suction Pipe Sizes	2" Nominal Diameter, Schedule 40 Pipe
Maximum Inlet Pressure	30/2 - 30 – 90 PSI 40 - 120 – 145 PSI
Maximum Ambient Temperature	104° F
Liquid Temperature Range	+5° F to +250° F
Motor Options	TEFC or ODP

Materials Of Construction

PVM (X) 2, 4, 8 & 16 Series

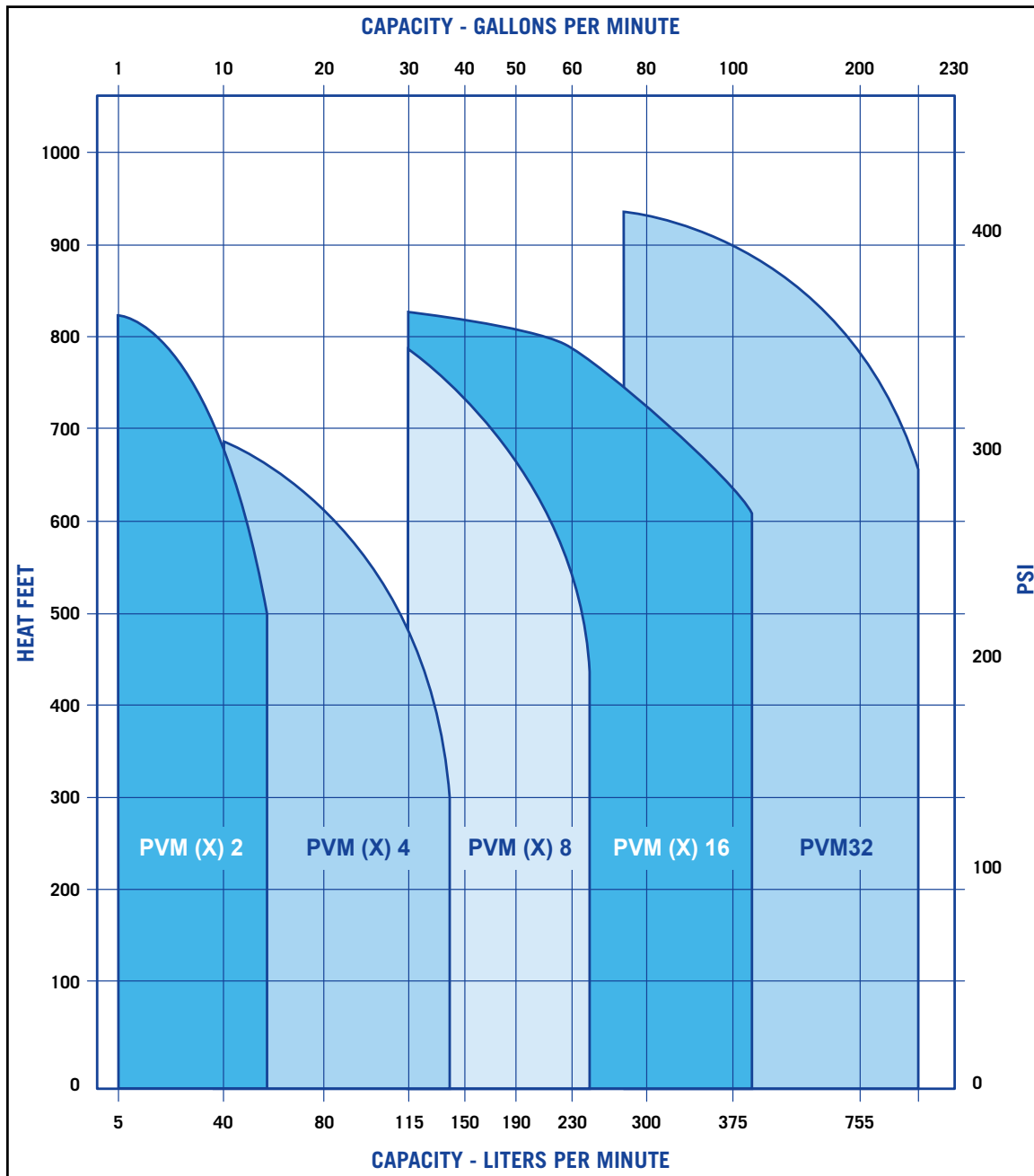
Description	Cast Iron	316 Stainless Steel	Optional Accessories
Shaft	AISI 431 SS	AISI 316 SS	
Impellers, Diffuser Chambers, Pump Sleeve, Suction Interconnector, and Shaft Seal Parts	AISI 304 SS	AISI 316 SS	
Suction / Discharge	Class 30 Cast Iron	316 SS	
Motor Bracket	Class 30 Cast Iron	Class 30 CI or 316 SS	
Motor Couplings	Class 30 Cast Iron	Class 30 Cast Iron	
Intermediate Chamber	Aluminum Oxide	Aluminum Oxide	
Bearings	Ceramic	Ceramic	
Bearing Ring	Tungsten Carbide	Tungsten Carbide	
O-Rings	EPDM	EPDM	Viton or Buna-N
Wear Rings	Teflon	Teflon	
Sleeve O-Rings	EPDM	EPDM	Viton or Buna-N
Shaft Spacers	AISI 316 SS	AISI 316 SS	
Top Spring	AISI 316 SS	AISI 316 SS	
Coupling Guard	AISI 302 SS	AISI 302 SS	
Staybolts, Nuts & Washers	Zinc Plated Steel	Zinc Plated Steel	
Mechanical Seal (High Pressure)			
Stationary Face	Tungsten Carbide	Tungsten Carbide	
Rotating Face	Tungsten Carbide	Tungsten Carbide	
O-Rings	EPDM	EPDM	Viton or Buna-N
Upper and Lower Drivers	AISI 316 SS	AISI 316 SS	
Spring	AISI 316 SS	AISI 316 SS	

PVM32 Series

Description	Material
Shaft	AISI 431 SS
Impellers, Diffuser Chambers, Pump Sleeve, Split Cones and Split Cone Nuts, and Suction Interconnector	AISI 304 SS
Motor Stool	Class 30 Cast Iron
Suction / Discharge, Pump Head, and Motor Couplings	80-55-06 Ductile Iron
Intermediate Bearings	Leadless Tin Bronze
Diffuser Sleeves	Graphite
Bearing Ring	Description
Lower Shaft Stabilizer Bearing	Tungsten Carbide
O-Rings	EPDM opt: Viton, Buna-N
Neck Rings	Teflon
Coupling Guard	AISI 304 SS
Staybolts, Nuts & Washers	Zinc Plated Steel
Mechanical Seal	
Stationary Face	Tungsten Carbide
Rotating Face	Tungsten Carbide
O-Rings	EPDM opt: Viton, Buna-N
Upper and Lower Drivers	AISI 304 SS or Better
Spring	AISI 316 SS
Seal Carrier	UNIC 40 Epoxy Coated Steel



Vertical Multi-Stage Performance



NOTE: Aurora Pump reserves the right to make revisions to its products and their specifications, and to this brochure and related information, without notice.



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