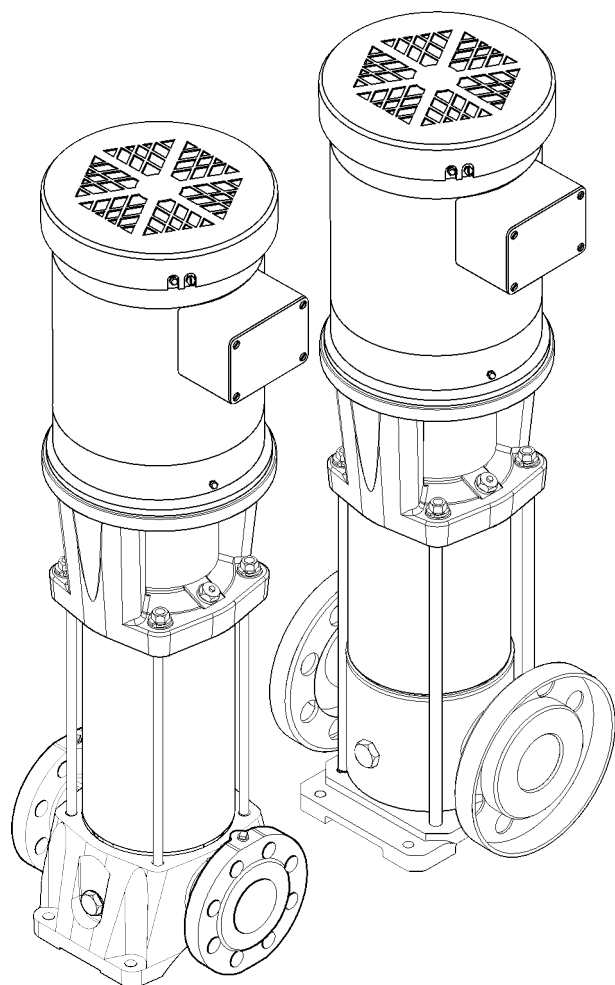




Vertical Multi-stage Pumps - 50 Hz.

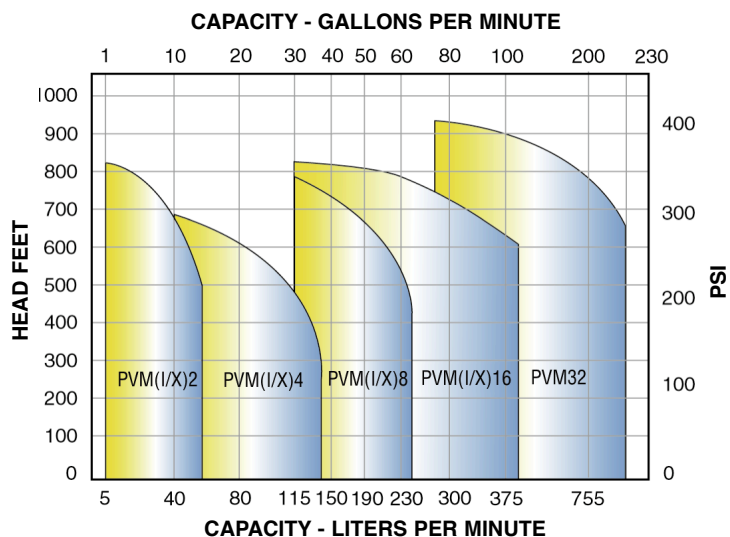
PVM - Cast Iron
PVM I - 304 Stainless Steel
PVM X - 316 Stainless Steel

Models	Flow Series	HP Range	GPM
PVM/PVM I/PVM X	2	1/2 – 3	1 – 15
PVM/PVM I/PVM X	4	1/2 – 7.5	3 – 36
PVM/PVM I/PVM X	8	3/4 – 10	5 – 56
PVM/PVM I/PVM X	16	5 – 20	8 – 95
PVM	32	3 – 30	15 – 180

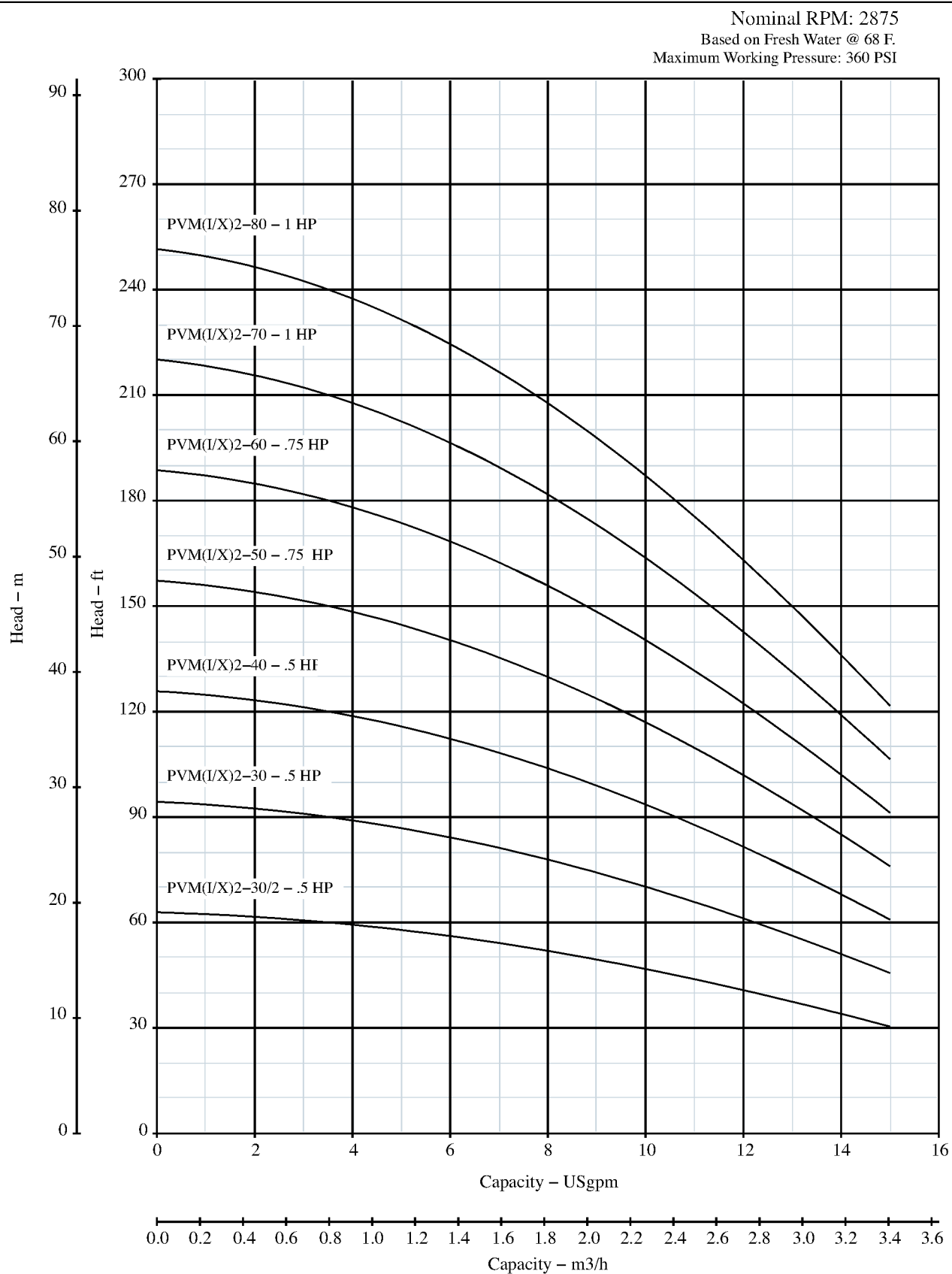
TABLE OF CONTENTS

Description	Page
<i>PVM(I/X)2 Series</i>	<i>2-8</i>
<i>PVM(I/X)4 Series</i>	<i>9-15</i>
<i>PVM(I/X)2 /PVM(I/X)4 Construction Materials</i>	<i>16</i>
<i>PVM(I/X)8 Series</i>	<i>17-23</i>
<i>PVM(I/X)16 Series</i>	<i>24-28</i>
<i>PVM(I/X)8/PVM(I/X)16 Construction Materials</i>	<i>29</i>
<i>PVM32 Series</i>	<i>30-33</i>
<i>PVM32 Construction Materials</i>	<i>34</i>
<i>Bypass Orifice Sizing</i>	<i>35</i>
<i>Warranty</i>	<i>36</i>

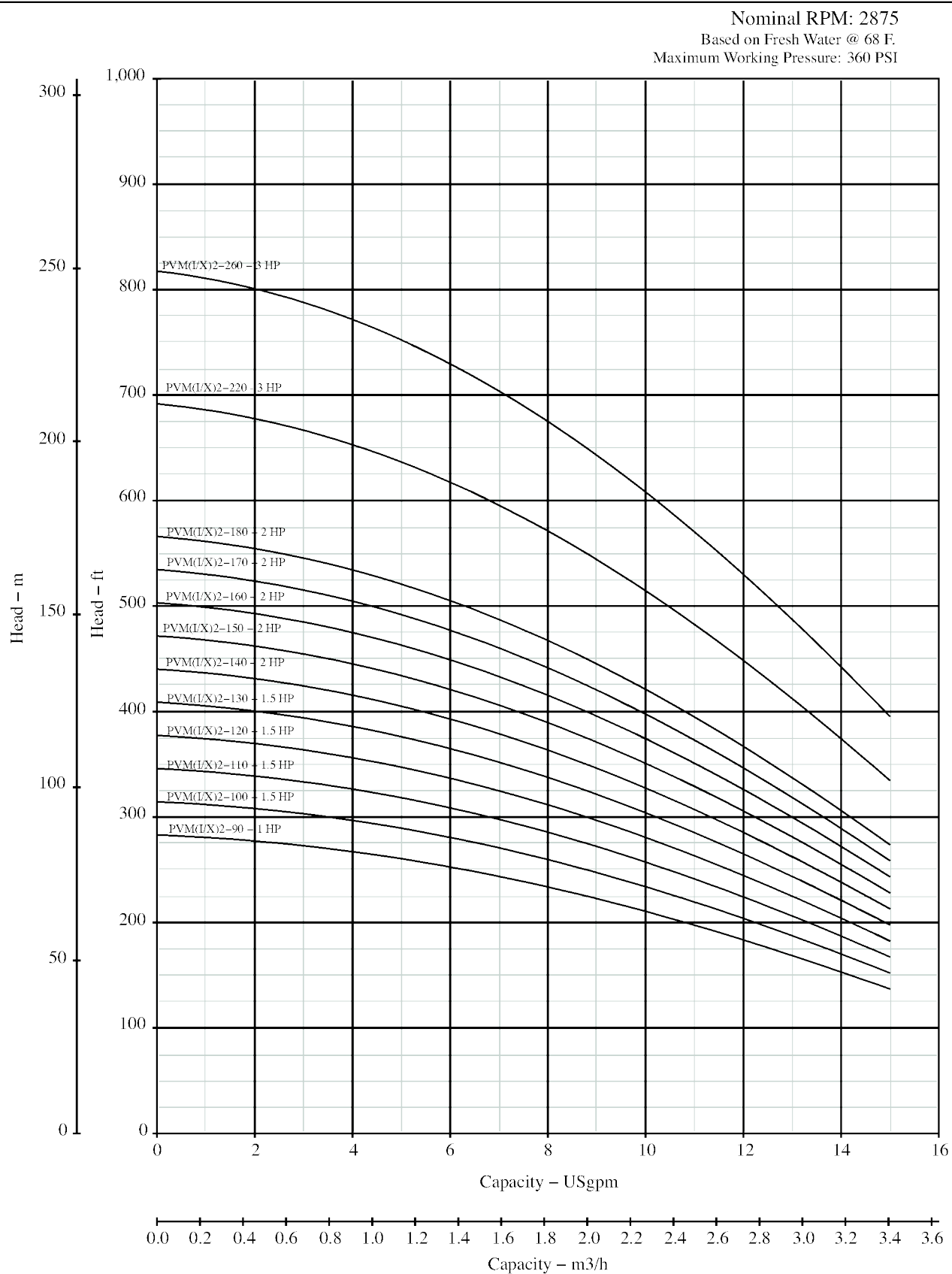
VERTICAL MULTI-STAGE PERFORMANCE



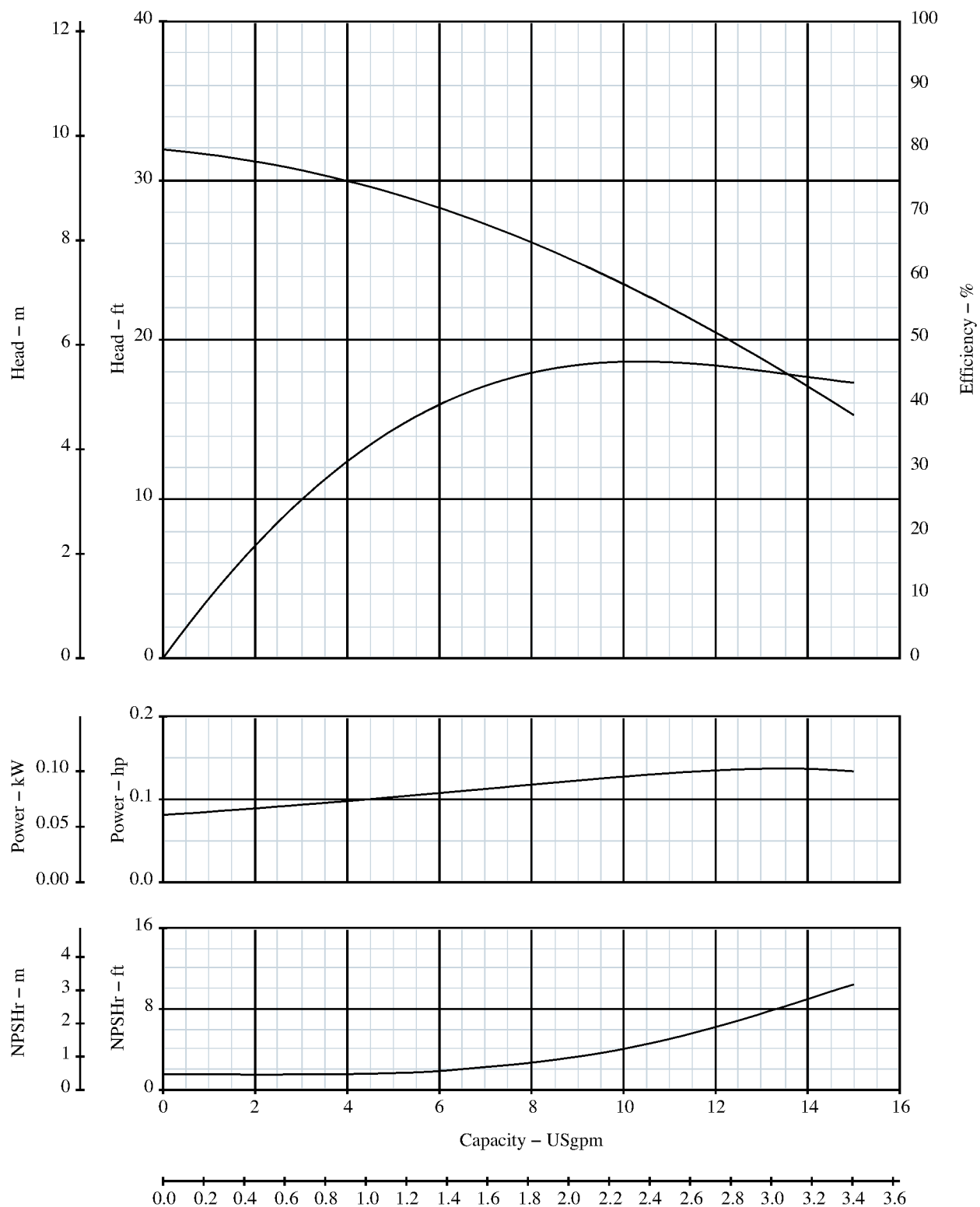
Performance Curves – PVM (I/X) 2 Series



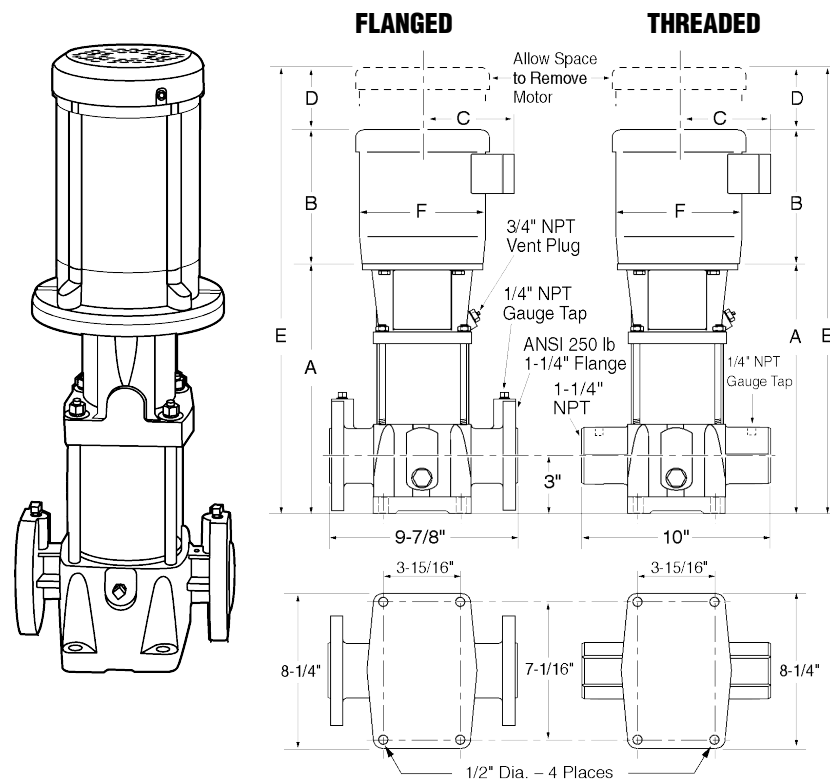
Performance Curves – PVM (I/X) 2 Series



Single Stage Performance Data – PVM (I/X) 2 Series



Cast Iron Construction



Technical Information

MINIMUM PUMPING RATES: 1.2 GPM

FLOW RANGE: 1.2 – 15 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

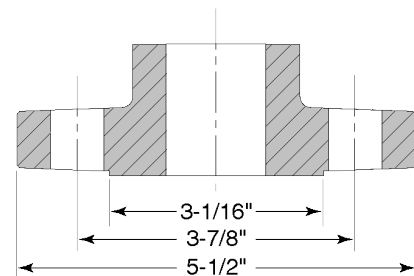
MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 16.

1-1/4" ANSI, 250 lb. 4-Bolt Flange



Dimensions and Specifications – PVM 2 Series

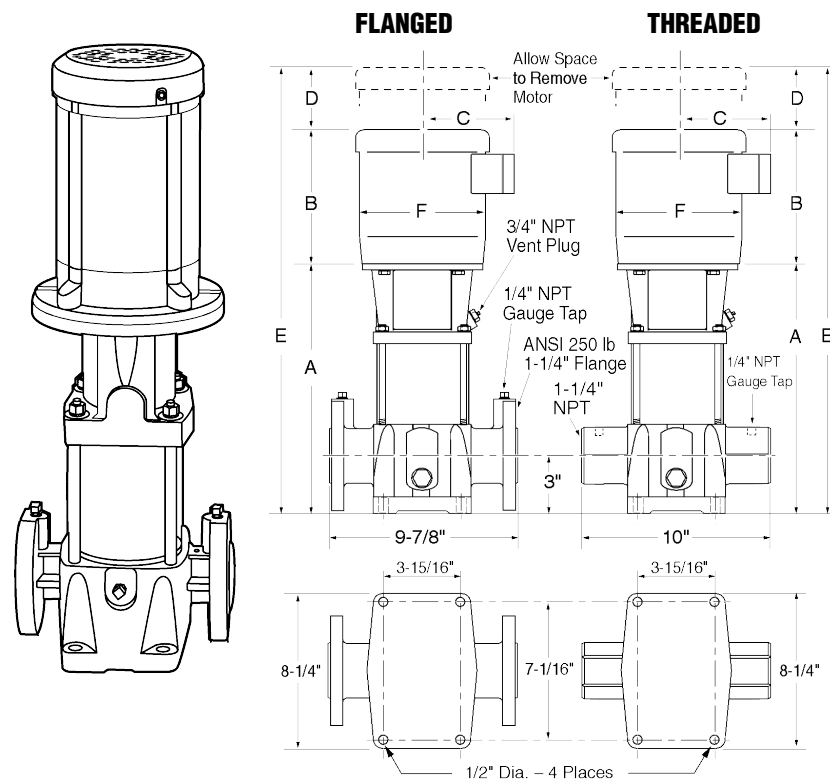
1/3 thru 1 HP

Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						PumpOnly Wt.
								A	B	C	D	E	F	
PVM2-30/2	0.33	1.25	3	190/380	56CZ	1 1/4	1 1/4	11.38 (298)	9.29 (236)	4.90 (124)	2.06 (52)	22.73 (577)	6.04 (153)	45 (20.4)
PVM2-30	0.5	1.25	3	190/380	56CZ	1 1/4	1 1/4	11.38 (289)	9.29 (236)	4.90 (124)	2.06 (52)	22.73 (577)	6.04 (153)	45 (20.4)
PVM2-40	0.5	1.25	3	190/380	56CZ	1 1/4	1 1/4	12.00 (305)	9.29 (236)	4.90 (124)	2.06 (52)	23.35 (593)	6.04 (153)	46 (20.9)
PVM2-50	0.75	1.25	3	190/380	56CZ	1 1/4	1 1/4	12.75 (324)	9.29 (236)	4.90 (124)	2.06 (52)	24.10 (612)	6.04 (153)	47 (21.3)
PVM2-60	0.75	1.25	3	190/380	56CZ	1 1/4	1 1/4	13.50 (343)	9.29 (236)	4.90 (124)	2.06 (52)	24.85 (631)	6.04 (153)	49 (22.2)
PVM2-70	1	1.25	3	190/380	56CZ	1 1/4	1 1/4	14.13 (359)	10.17 (258)	5.73 (146)	2.07 (53)	26.37 (670)	7.19 (183)	51 (23.1)
PVM2-80	1	1.25	3	190/380	56CZ	1 1/4	1 1/4	14.88 (378)	10.17 (258)	5.73 (146)	2.07 (53)	27.12 (689)	7.19 (183)	53 (24.0)
PVM2-90	1	1.25	3	190/380	56CZ	1 1/4	1 1/4	16.00 (406)	10.17 (258)	5.73 (146)	2.07 (53)	28.24 (717)	7.19 (183)	67 (30.4)

* Measurements represent the largest number possible for each model using standard efficiency motors.

Weight may vary from published information.

Cast Iron Construction



Technical Information

MINIMUM PUMPING RATES: 1.2 GPM

FLOW RANGE: 1.2 – 15 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

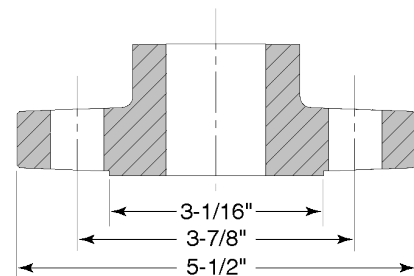
MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 16.

1-1/4" ANSI, 250 lb. 4-Bolt Flange



Dimensions and Specifications – PVM 2 Series

1-1/2 thru 3 HP

Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM2-100	1.5	1.15	3	190/380	56CZ	1 1/4	1 1/4	16.63 (422)	11.17 (284)	5.73 (146)	2.07 (53)	29.87 (759)	7.19 (183)	59 (26.8)
PVM2-110	1.5	1.15	3	190/380	56CZ	1 1/4	1 1/4	17.38 (441)	11.17 (284)	5.73 (146)	2.07 (53)	30.62 (778)	7.19 (183)	71 (32.2)
PVM2-120	1.5	1.15	3	190/380	56CZ	1 1/4	1 1/4	18.13 (460)	11.17 (284)	5.73 (146)	2.07 (53)	31.37 (797)	7.19 (183)	73 (33.1)
PVM2-130	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	18.75 (476)	12.30 (312)	6.87 (174)	2.87 (73)	33.92 (862)	8.60 (218)	75 (34.0)
PVM2-140	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	19.50 (495)	12.30 (312)	6.87 (174)	2.87 (73)	34.67 (881)	8.60 (218)	77 (34.9)
PVM2-150	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	20.25 (514)	12.30 (312)	6.87 (174)	2.87 (73)	35.42 (900)	8.60 (218)	79 (35.8)
PVM2-160	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	20.88 (530)	12.30 (312)	6.87 (174)	2.87 (73)	36.05 (916)	8.60 (218)	81 (36.7)
PVM2-170	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	21.63 (549)	12.30 (312)	6.87 (174)	2.87 (73)	36.80 (935)	8.60 (218)	83 (37.6)
PVM2-180	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	22.38 (568)	12.30 (312)	6.87 (174)	2.87 (73)	37.55 (954)	8.60 (218)	85 (38.6)
PVM2-220	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	25.25 (641)	13.68 (347)	6.87 (174)	2.87 (73)	41.80 (1062)	8.60 (218)	93 (42.2)
PVM2-260	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	28.13 (714)	13.68 (347)	6.87 (174)	2.87 (73)	44.68 (1135)	8.60 (218)	111 (50.3)

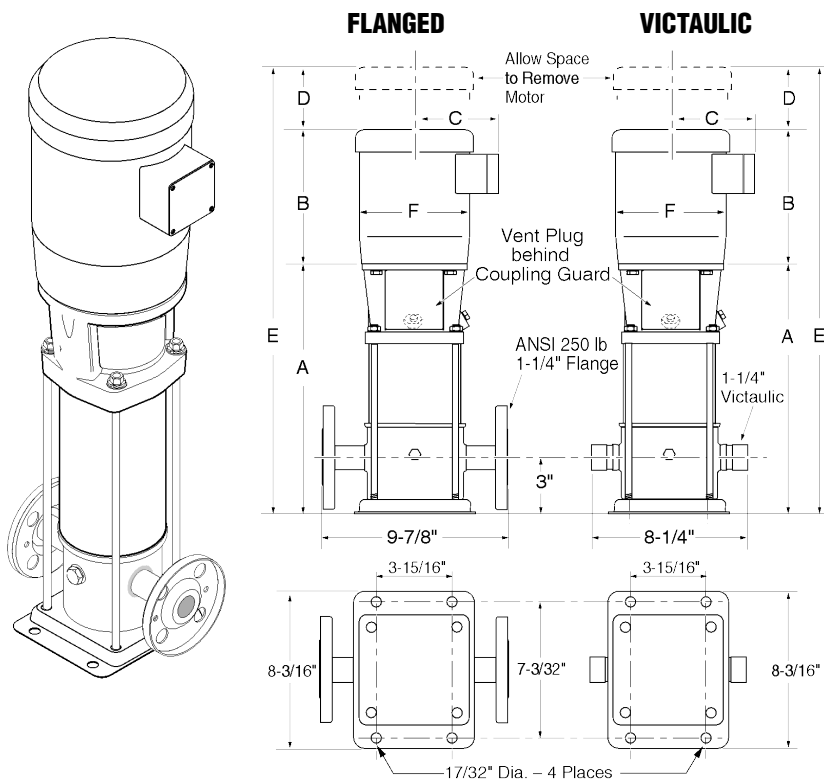
* Measurements represent the largest number possible for each model using standard efficiency motors.

Weight may vary from published information.

PVM (I/X) 2 SERIES



304 SS and 316 SS Construction



Technical Information

MINIMUM PUMPING RATES: 1.2 GPM

FLOW RANGE: 1.2 – 15 GPM

MINIMUM SUCTION PIPE SIZES:

1-1/4" Nominal Diameter, Schedule 40 Pipe

MAXIMUM INLET PRESSURE:

30/2 - 60 – 145 PSI

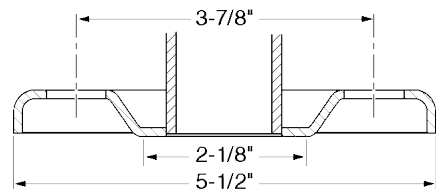
70 - 180 – 220 PSI

MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 16.



Dimensions and Specifications – PVM (I/X) 2 Series†

1/3 thru 1 HP

Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM(I/X)2-30/2	0.33	1.25	3	190/380	56CZ	1 1/4	1 1/4	11.75 (298)	9.29 (236)	4.90 (124)	2.06 (52)	23.10 (587)	6.04 (153)	25 (11.3)
PVM(I/X)2-30	0.5	1.25	3	190/380	56CZ	1 1/4	1 1/4	11.75 (298)	9.29 (236)	4.90 (124)	2.06 (52)	23.10 (587)	6.04 (153)	25.00 (11.3)
PVM(I/X)2-40	0.5	1.25	3	190/380	56CZ	1 1/4	1 1/4	12.38 (314)	9.29 (236)	4.90 (124)	2.06 (52)	23.73 (603)	6.04 (153)	26 (11.8)
PVM(I/X)2-50	0.75	1.25	3	190/380	56CZ	1 1/4	1 1/4	13.13 (333)	9.29 (236)	4.90 (124)	2.06 (52)	24.48 (622)	6.04 (153)	27 (12.2)
PVM(I/X)2-60	0.75	1.25	3	190/380	56CZ	1 1/4	1 1/4	13.88 (352)	9.29 (236)	4.90 (124)	2.06 (52)	25.23 (641)	6.04 (153)	29 (13.2)
PVM(I/X)2-70	1	1.25	3	190/380	56CZ	1 1/4	1 1/4	14 1/2 (368)	10 1/6 (258)	5 3/4 (146)	2 (53)	26 3/4 (679)	7 1/5 (183)	31 (14.1)
PVM(I/X)2-80	1	1.25	3	190/380	56CZ	1 1/4	1 1/4	15.25 (387)	10.17 (258)	5.73 (146)	2.07 (53)	27.49 (698)	7.19 (183)	33 (15.0)
PVM(I/X)2-90	1	1.25	3	190/380	56CZ	1 1/4	1 1/4	16.38 (416)	10.17 (258)	5.73 (146)	2.07 (53)	28.62 (727)	7.19 (183)	47 (21.3)

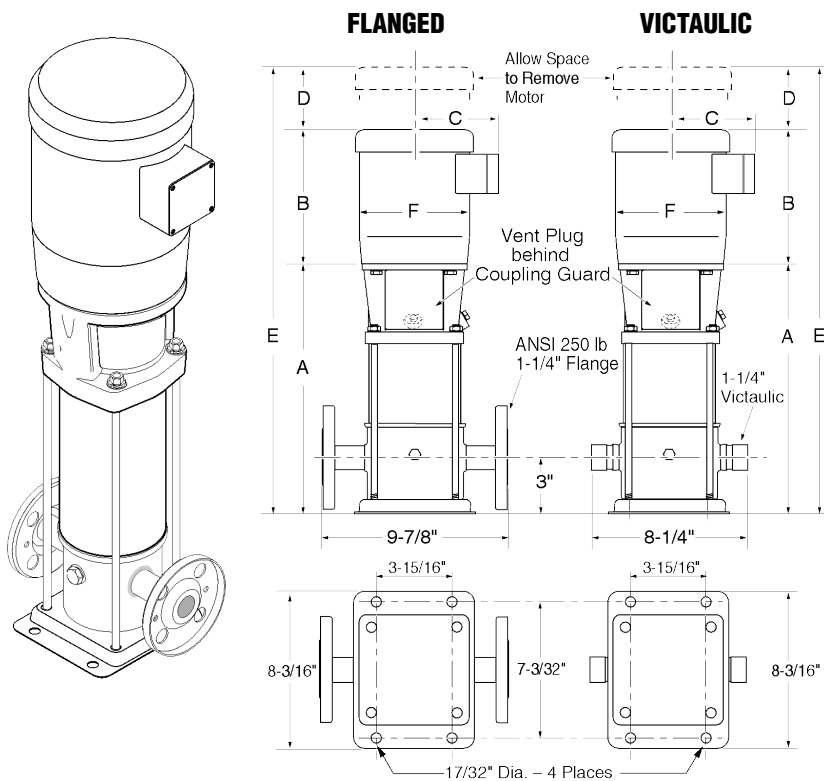
* Measurements represent the largest number possible for each model using standard efficiency motors.

† Includes PMVI models constructed of 304 Stainless Steel and PVMX models constructed of 316 Stainless Steel.

PVM (I/X) 2 SERIES



304 SS and 316 SS Construction



Technical Information

MINIMUM PUMPING RATES: 1.2 GPM

FLOW RANGE: 1.2 – 15 GPM

MINIMUM SUCTION PIPE SIZES:

1-1/4" Nominal Diameter, Schedule 40 Pipe

MAXIMUM INLET PRESSURE:

30/2 - 60 – 145 PSI

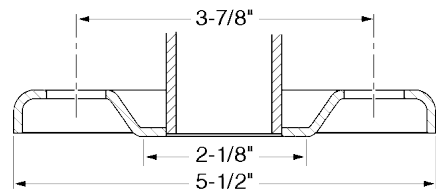
70 - 180 – 220 PSI

MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 16.



Dimensions and Specifications – PVM (I/X) 2 Series†

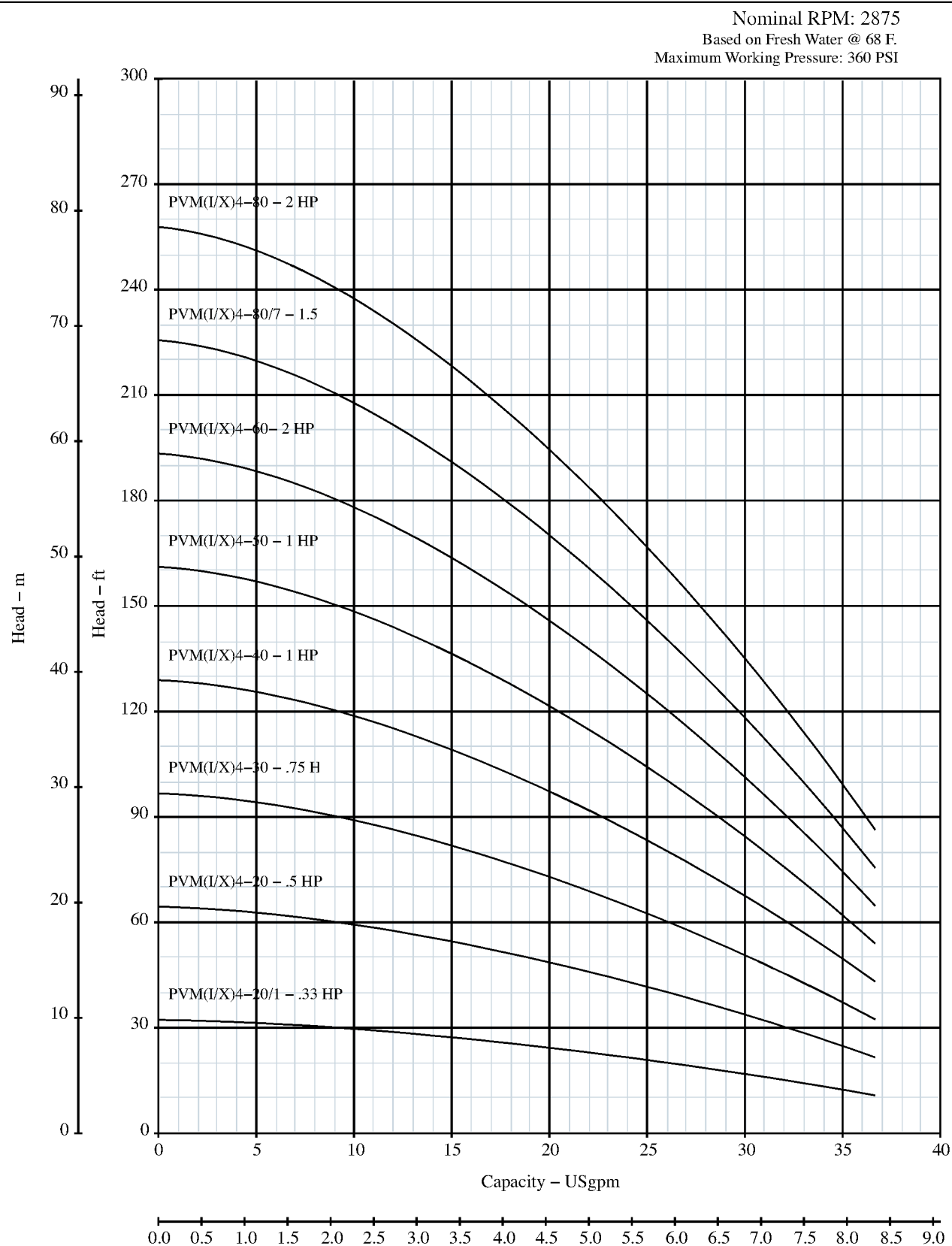
1-1/2 thru 3 HP

Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM(I/X)2-100	1.5	1.15	3	190/380	56CZ	1 1/4	1 1/4	17.00 (432)	11.17 (284)	5.73 (146)	2.07 (53)	30.24 (768)	7.19 (183)	49 (22.2)
PVM(I/X)2-110	1.5	1.15	3	190/380	56CZ	1 1/4	1 1/4	17.75 (451)	11.17 (284)	5.73 (146)	2.07 (53)	30.99 (787)	7.19 (183)	51 (23.1)
PVM(I/X)2-120	1.5	1.15	3	190/380	56CZ	1 1/4	1 1/4	18.50 (470)	11.17 (284)	5.73 (146)	2.07 (53)	31.74 (806)	7.19 (183)	53 (24.0)
PVM(I/X)2-130	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	19.13 (486)	12.30 (312)	6.87 (174)	2.87 (73)	34.30 (871)	8.60 (218)	55 (24.9)
PVM(I/X)2-140	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	19.88 (505)	12.30 (312)	6.87 (174)	2.87 (73)	35.05 (890)	8.60 (218)	57 (25.9)
PVM(I/X)2-150	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	20.63 (524)	12.30 (312)	6.87 (174)	2.87 (73)	35.80 (909)	8.60 (218)	59 (26.8)
PVM(I/X)2-160	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	21.25 (540)	12.30 (312)	6.87 (174)	2.87 (73)	36.42 (925)	8.60 (218)	61 (27.7)
PVM(I/X)2-170	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	22.00 (559)	12.30 (312)	6.87 (174)	2.87 (73)	37.17 (944)	8.60 (218)	63 (28.6)
PVM(I/X)2-180	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	22.75 (578)	12.30 (312)	6.87 (174)	2.87 (73)	37.92 (963)	8.60 (218)	65 (29.5)
PVM(I/X)2-220	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	25.63 (651)	13.68 (347)	6.87 (174)	2.87 (73)	42.18 (1071)	8.60 (218)	73 (33.1)
PVM(I/X)2-260	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	28.50 (724)	13.68 (347)	6.87 (174)	2.87 (73)	45.05 (1144)	8.60 (218)	91 (41.3)

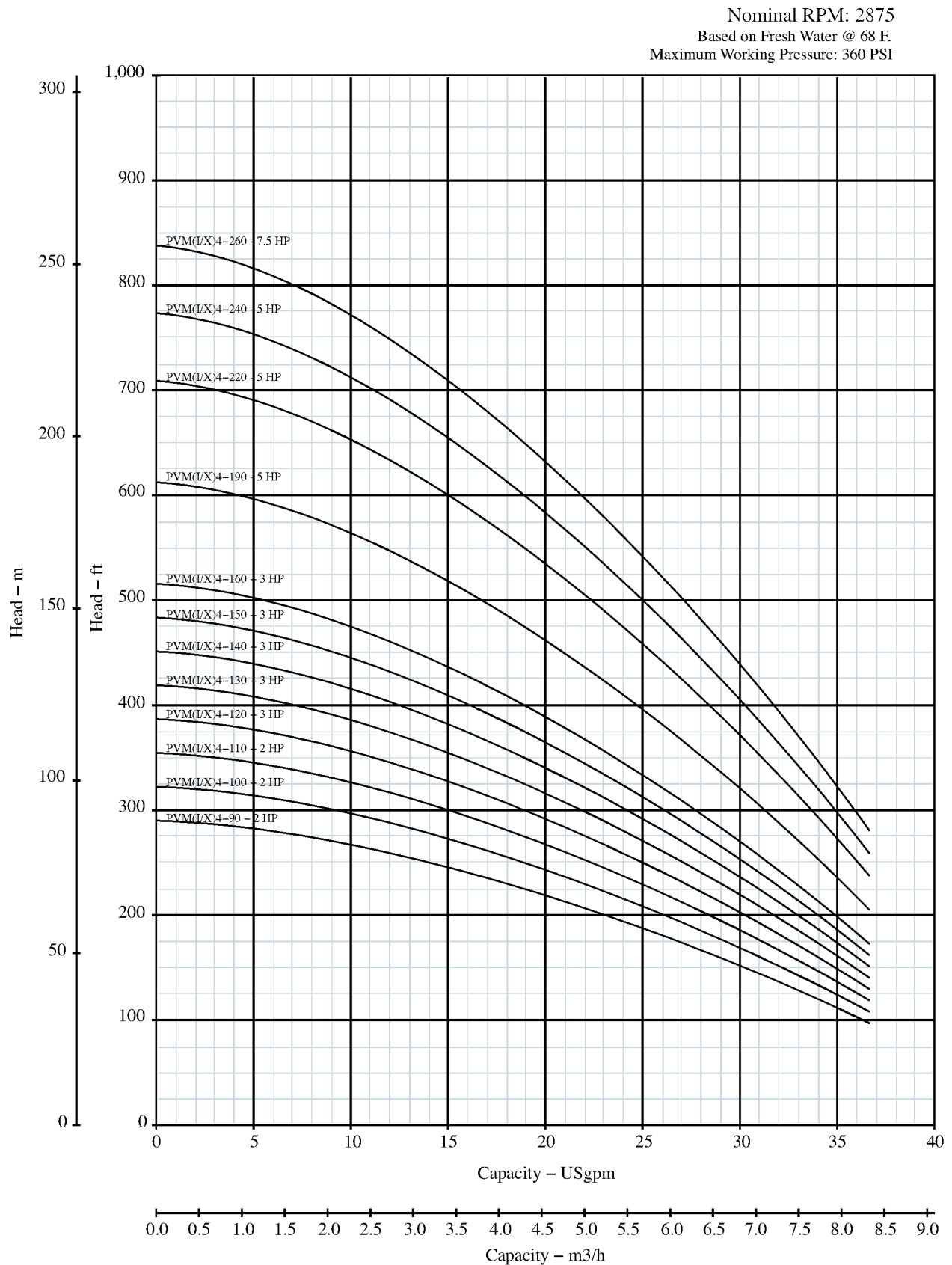
* Measurements represent the largest number possible for each model using standard efficiency motors.

† Includes PMVI models constructed of 304 Stainless Steel and PVMX models constructed of 316 Stainless Steel.

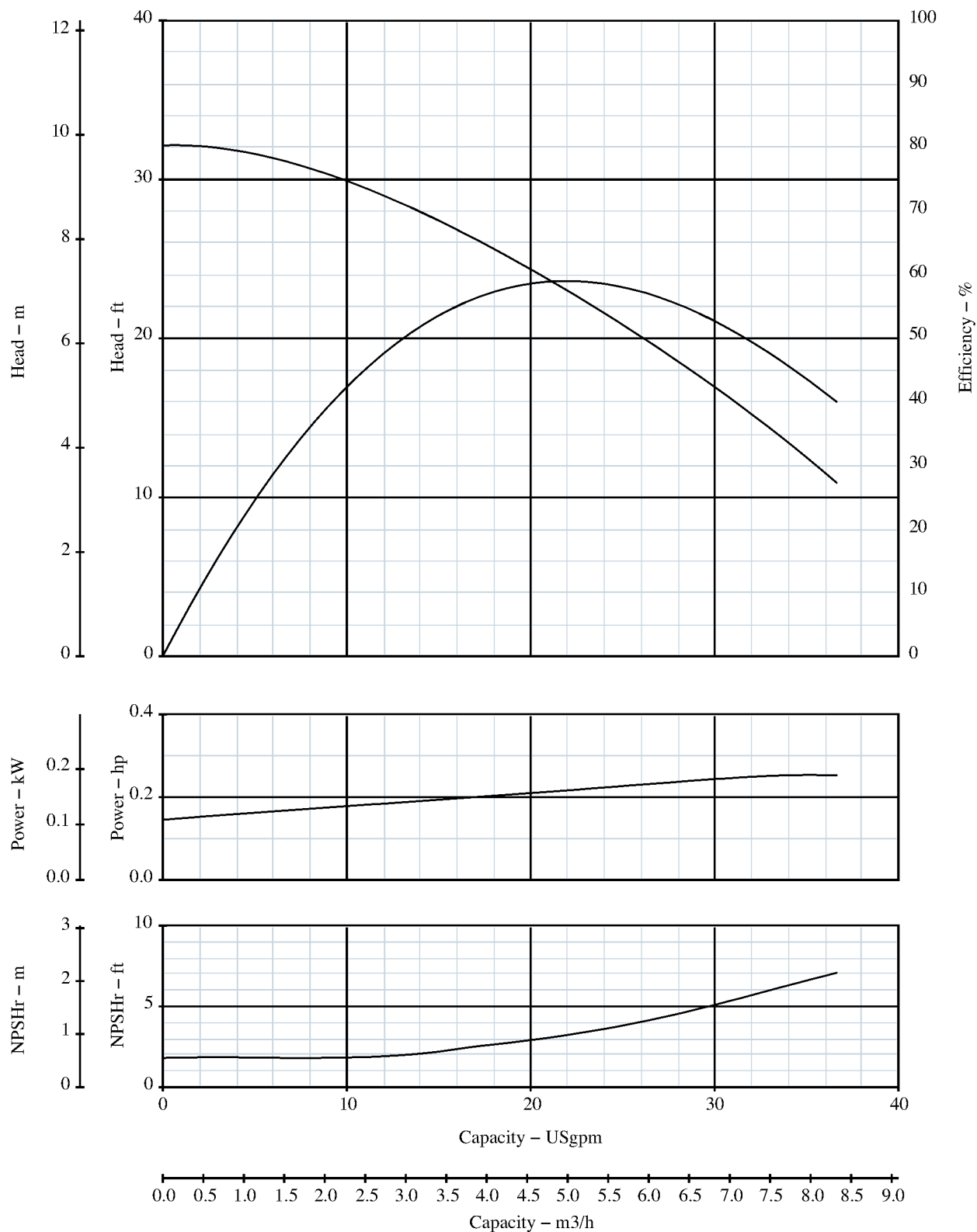
Performance Curves – PVM (I/X) 4 Series



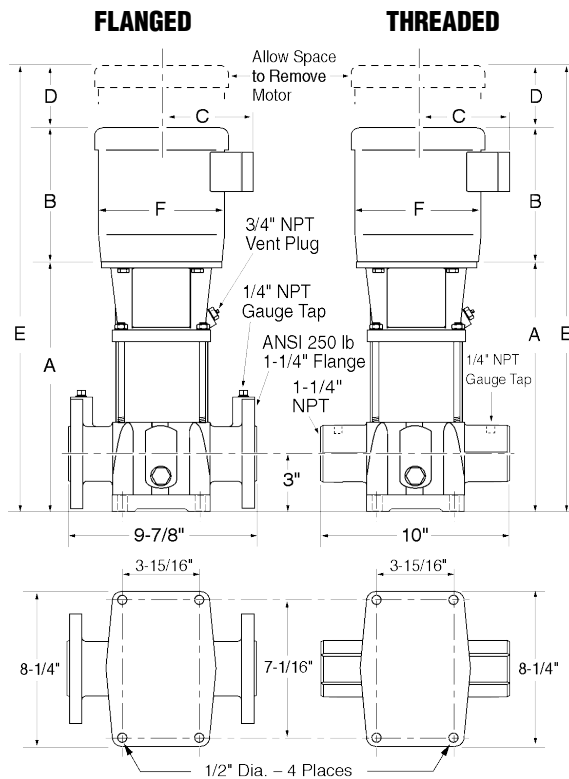
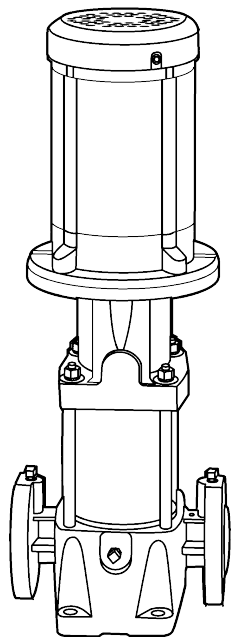
Performance Curves – PVM (I/X) 4 Series



Single Stage Performance Data – PVM (I/X) 4 Series



Cast Iron Construction



Technical Information

MINIMUM PUMPING RATES: 3 GPM

FLOW RANGE: 3 – 36 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

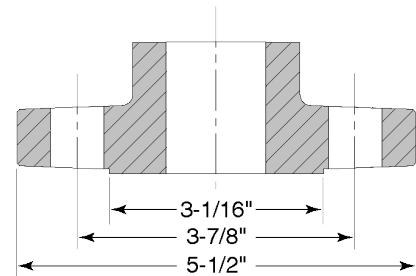
MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 16.

1-1/4" ANSI, 250 lb. 4-Bolt Flange



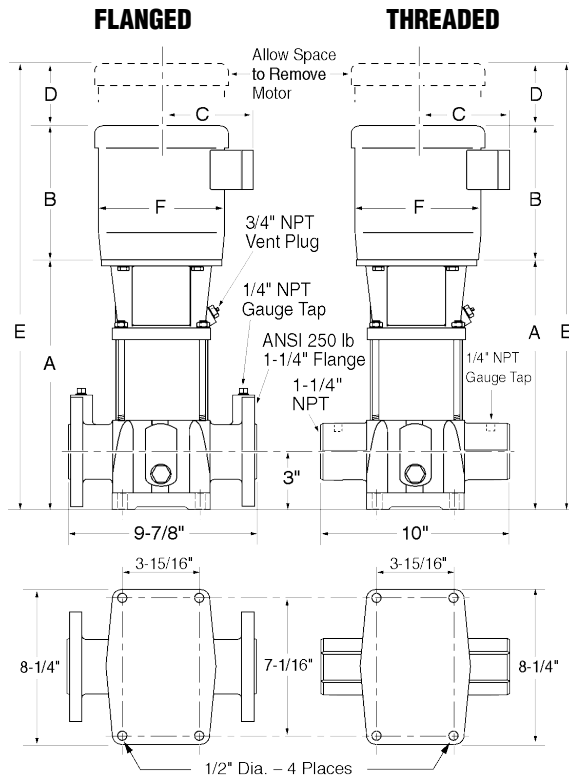
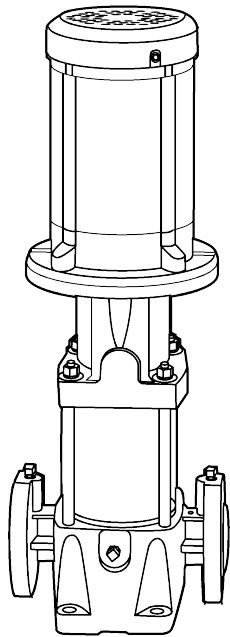
Dimensions and Specifications – PVM 4 Series

1/3 thru 1-1/2 HP

Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM4-20/1	0.33	1.25	3	190/380	56CZ	1 1/4	1 1/4	11.38 (289)	9.29 (236)	4.90 (124)	2.06 (52)	22.73 (577)	6.04 (153)	46 (20.9)
PVM4-20	0.5	1.25	3	190/380	56CZ	1 1/4	1 1/4	11.38 (289)	9.29 (236)	4.90 (124)	2.06 (52)	22.73 (577)	6.04 (153)	46.00 (20.9)
PVM4-30	0.75	1.25	3	190/380	56CZ	1 1/4	1 1/4	12.38 (314)	9.29 (236)	4.90 (124)	2.06 (52)	23.73 (603)	6.04 (153)	47 (21.3)
PVM4-40	1	1.25	3	190/380	56CZ	1 1/4	1 1/4	13.50 (343)	10.17 (258)	5.73 (146)	2.07 (53)	25.74 (654)	7.19 (183)	49 (22.2)
PVM4-50	1	1.25	3	190/380	56CZ	1 1/4	1 1/4	14.50 (368)	10.17 (258)	5.73 (146)	2.07 (53)	26.74 (679)	7.19 (183)	51 (23.1)
PVM4-60	1.5	1.15	3	190/380	56CZ	1 1/4	1 1/4	16.00 (406)	11.17 (284)	5.73 (146)	2.07 (53)	29.24 (743)	7.19 (183)	53 (24.0)

* Measurements represent the largest number possible for each model using standard efficiency motors.

Cast Iron Construction



Technical Information

MINIMUM PUMPING RATES: 3 GPM

FLOW RANGE: 3 – 36 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

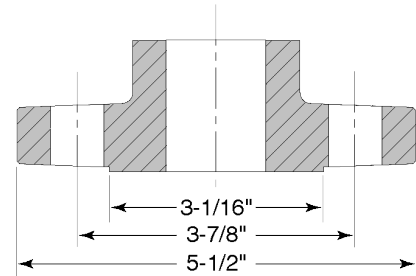
MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 16.

1-1/4" ANSI, 250 lb. 4-Bolt Flange



Dimensions and Specifications – PVM 4 Series

2 thru 7-1/2 HP

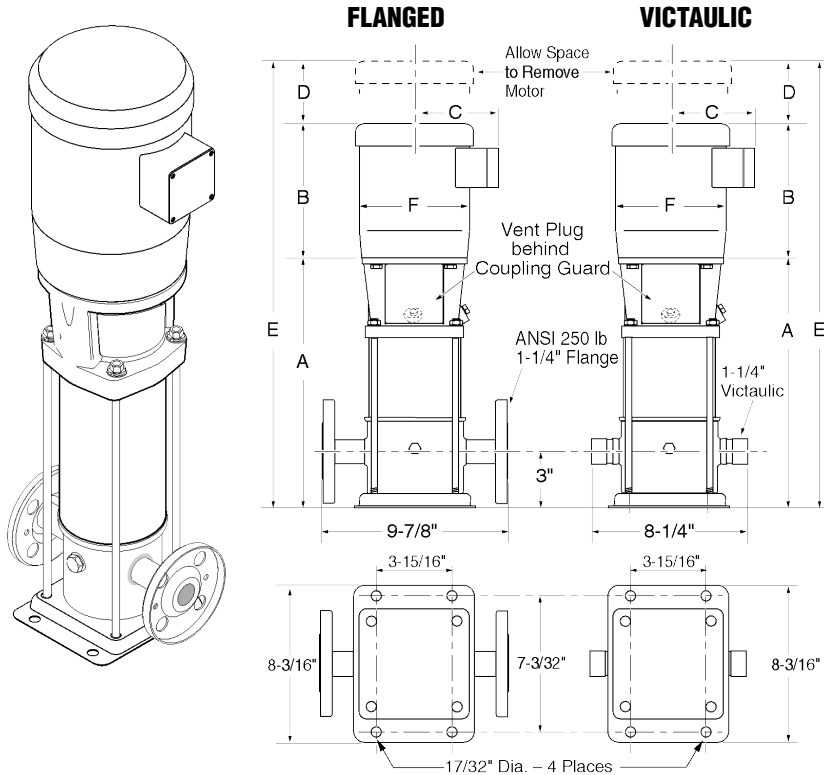
Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM4-80/7	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	18.13 (460)	12.30 (312)	6.87 (174)	2.87 (73)	33.30 (846)	8.60 (218)	67 (30.4)
PVM4-80	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	18.13 (460)	12.30 (312)	6.87 (174)	2.87 (73)	33.30 (846)	8.60 (218)	69 (31.3)
PVM4-90	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	19.13 (486)	12.30 (312)	6.87 (174)	2.87 (73)	34.30 (871)	8.60 (218)	71 (32.2)
PVM4-100	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	20.25 (514)	12.30 (312)	6.87 (174)	2.87 (73)	35.42 (900)	8.60 (218)	72 (32.7)
PVM4-110	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	21.25 (540)	12.30 (312)	6.87 (174)	2.87 (73)	36.42 (925)	8.60 (218)	73 (33.1)
PVM4-120	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	22.38 (568)	13.68 (347)	6.87 (174)	2.87 (73)	38.93 (989)	8.60 (218)	75 (34.0)
PVM4-130	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	23.38 (594)	13.68 (347)	6.87 (174)	2.87 (73)	39.93 (1014)	8.60 (218)	77 (34.9)
PVM4-140	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	24.50 (622)	13.68 (347)	6.87 (174)	2.87 (73)	41.05 (1043)	8.60 (218)	79 (35.8)
PVM4-150	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	25.50 (648)	13.68 (347)	6.87 (174)	2.87 (73)	42.05 (1068)	8.60 (218)	81 (36.7)
PVM4-160	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	26.63 (676)	13.68 (347)	6.87 (174)	2.87 (73)	43.18 (1097)	8.60 (218)	83 (37.6)
PVM4-190	5	1.15	3	190/380	213TCZ	1 1/4	1 1/4	29.88 (759)	15.29 (388)	8.05 (204)	2.87 (73)	48.04 (1220)	10.22 (260)	89 (40.4)
PVM4-220	5	1.15	3	190/380	213TCZ	1 1/4	1 1/4	33.13 (841)	15.29 (388)	8.05 (204)	2.87 (73)	51.29 (1303)	10.22 (260)	94 (42.6)
PVM4-240	5	1.15	3	190/380	213TCZ	1 1/4	1 1/4	35.25 (895)	15.29 (388)	8.05 (204)	2.87 (73)	53.41 (1357)	10.22 (260)	100 (45.4)
PVM4-260	7.5	1.15	3	190/380	215TCZ	1 1/4	1 1/4	37.38 (949)	15.28 (388)	8.05 (204)	3.38 (86)	56.04 (1423)	10.34 (263)	106 (48.1)

* Measurements represent the largest number possible for each model using standard efficiency motors.

PVM (I/X) 4 SERIES



304 SS and 316 SS Construction



Technical Information

MINIMUM PUMPING RATES: 3 GPM

FLOW RANGE: 3 – 36 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

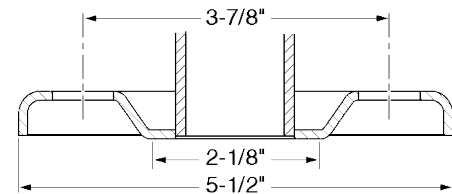
80 - 160 – 220 PSI

MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 16.



Dimensions and Specifications – PVM (I/X) 4 Series†

1/3 thru 2 HP

Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM(I/X)4-20/1	0.33	1.25	3	190/380	56CZ	1 1/4	1 1/4	11.75 (298)	9.29 (236)	4.90 (124)	2.06 (52)	23.10 (587)	6.04 (153)	26 (11.8)
PVM(I/X)4-20	0.5	1.25	3	190/380	56CZ	1 1/4	1 1/4	11.75 (298)	9.29 (236)	4.90 (124)	2.06 (52)	23.10 (587)	6.04 (153)	26 (11.8)
PVM(I/X)4-30	0.75	1.25	3	190/380	56CZ	1 1/4	1 1/4	12.75 (324)	9.29 (236)	4.90 (124)	2.06 (52)	24.10 (612)	6.04 (153)	27 (12.2)
PVM(I/X)4-40	1	1.25	3	190/380	56CZ	1 1/4	1 1/4	13.88 (352)	10.17 (258)	5.73 (146)	2.07 (53)	26.12 (663)	7.19 (183)	28 (12.7)
PVM(I/X)4-50	1	1.25	3	190/380	56CZ	1 1/4	1 1/4	14.88 (378)	10.17 (258)	5.73 (146)	2.07 (53)	27.12 (689)	7.19 (183)	29 (13.2)
PVM(I/X)4-60	1.5	1.15	3	190/380	56CZ	1 1/4	1 1/4	16.38 (416)	11.17 (284)	5.73 (146)	2.07 (53)	29.62 (752)	7.19 (183)	31 (14.1)
PVM(I/X)4-80/7	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	18.50 (470)	12.30 (312)	6.87 (174)	2.87 (73)	33.67 (855)	8.60 (218)	33 (15.0)
PVM(I/X)4-80	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	18.50 (470)	12.30 (312)	6.87 (174)	2.87 (73)	33.67 (855)	8.60 (218)	35 (15.9)
PVM(I/X)4-90	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	19.50 (495)	12.30 (312)	6.87 (174)	2.87 (73)	34.67 (881)	8.60 (218)	49 (22.2)
PVM(I/X)4-100	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	20.63 (524)	12.30 (312)	6.87 (174)	2.87 (73)	35.80 (909)	8.60 (218)	51 (23.1)
PVM(I/X)4-110	2	1.4	3	190/380	182TCZ	1 1/4	1 1/4	21.63 (549)	12.30 (312)	6.87 (174)	2.87 (73)	36.80 (935)	8.60 (218)	53 (24.0)

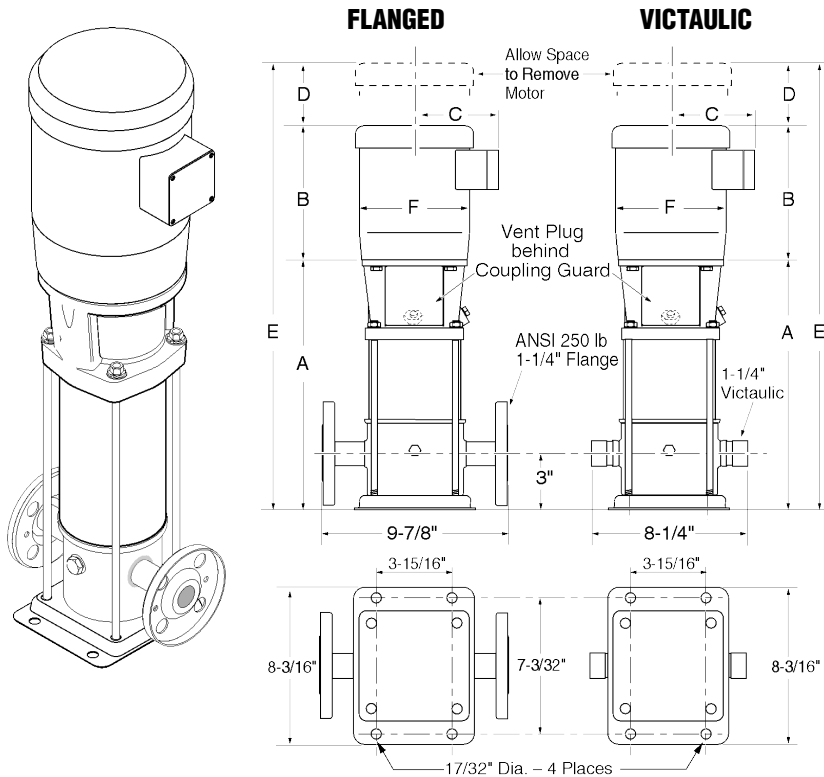
* Measurements represent the largest number possible for each model using standard efficiency motors.

† Includes PMVI models constructed of 304 Stainless Steel and PVMX models constructed of 316 Stainless Steel.

PVM (I/X) 4 SERIES



304 SS and 316 SS Construction



Technical Information

MINIMUM PUMPING RATES: 3 GPM

FLOW RANGE: 3 – 36 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

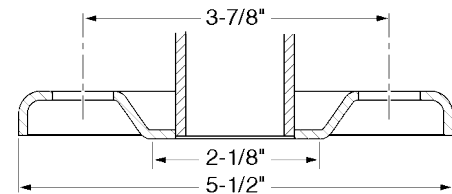
80 - 160 – 220 PSI

MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 16.



Dimensions and Specifications – PVM (I/X) 4 Series†

3 thru 7-1/2 HP

Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM(I/X)4-120	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	22.75 (578)	13.68 (347)	6.87 (174)	2.87 (73)	39.30 (998)	8.60 (218)	55 (24.9)
PVM(I/X)4-130	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	23.75 (603)	13.68 (347)	6.87 (174)	2.87 (73)	40.30 (1024)	8.60 (218)	57 (25.9)
PVM(I/X)4-140	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	24.88 (632)	13.68 (347)	6.87 (174)	2.87 (73)	41.43 (1052)	8.60 (218)	59 (26.8)
PVM(I/X)4-150	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	25.88 (657)	13.68 (347)	6.87 (174)	2.87 (73)	42.43 (1078)	8.60 (218)	61 (27.7)
PVM(I/X)4-160	3	1.4	3	190/380	184TCZ	1 1/4	1 1/4	27.00 (686)	13.68 (347)	6.87 (174)	2.87 (73)	43.55 (1106)	8.60 (218)	63 (28.6)
PVM(I/X)4-190	5	1.15	3	190/380	213TCZ	1 1/4	1 1/4	30.25 (768)	15.29 (388)	8.05 (204)	2.87 (73)	48.41 (1230)	10.22 (260)	69 (31.3)
PVM4(I/X)-220	5	1.15	3	190/380	213TCZ	1 1/4	1 1/4	33.50 (851)	15.29 (388)	8.05 (204)	2.87 (73)	51.66 (1312)	10.22 (260)	75 (34.0)
PVM4(I/X)-240	5	1.15	3	190/380	213TCZ	1 1/4	1 1/4	35.63 (905)	15.29 (388)	8.05 (204)	2.87 (73)	53.79 (1366)	10.22 (260)	79 (35.8)
PVM(I/X)4-260	7.5	1.15	3	190/380	215TCZ	1 1/4	1 1/4	37.75 (959)	15.28 (388)	8.05 (204)	3.38 (86)	56.41 (1433)	10.34 (263)	83.00 (37.6)

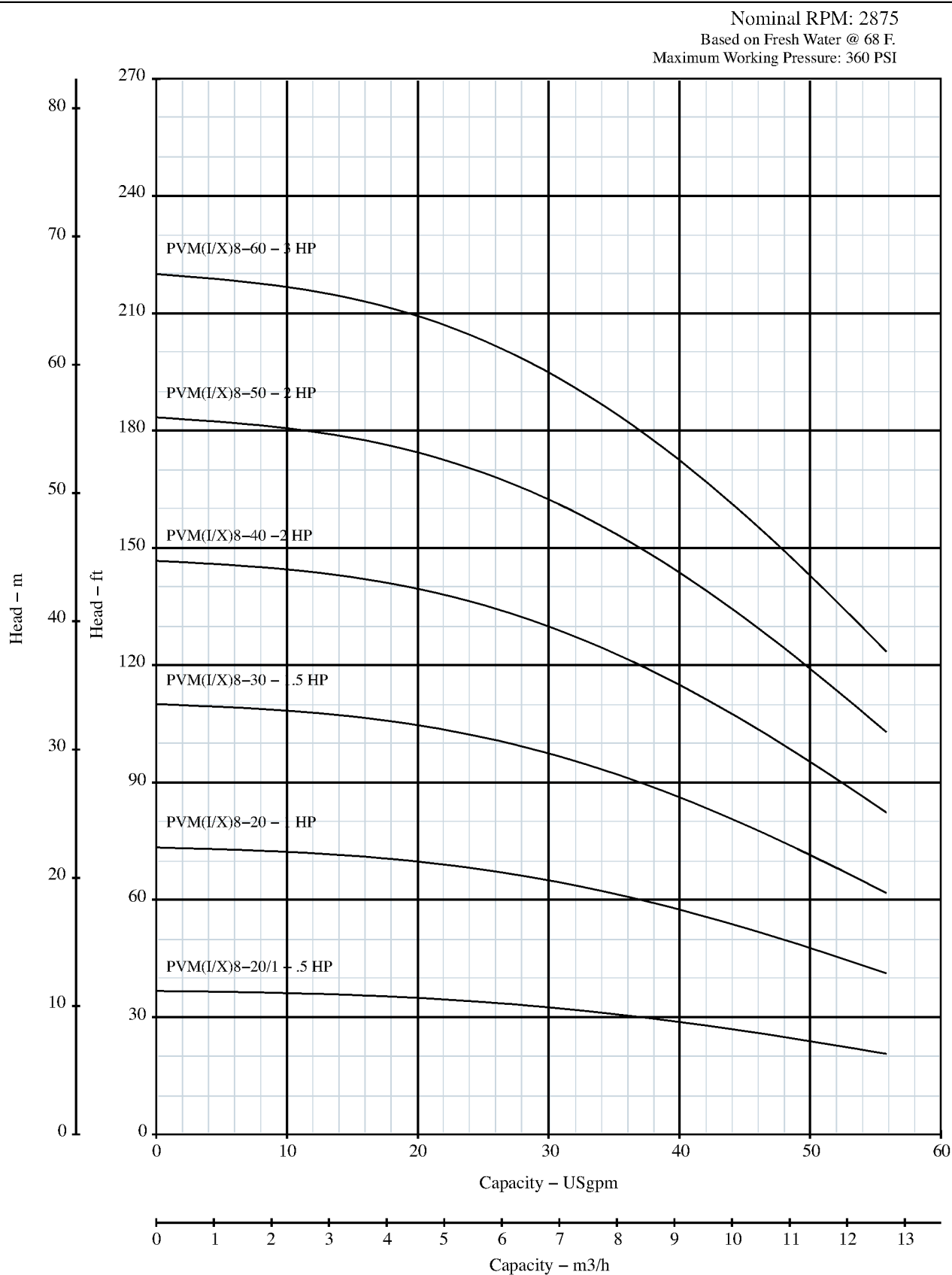
* Measurements represent the largest number possible for each model using standard efficiency motors.

† Includes PMVI models constructed of 304 Stainless Steel and PVMX models constructed of 316 Stainless Steel.

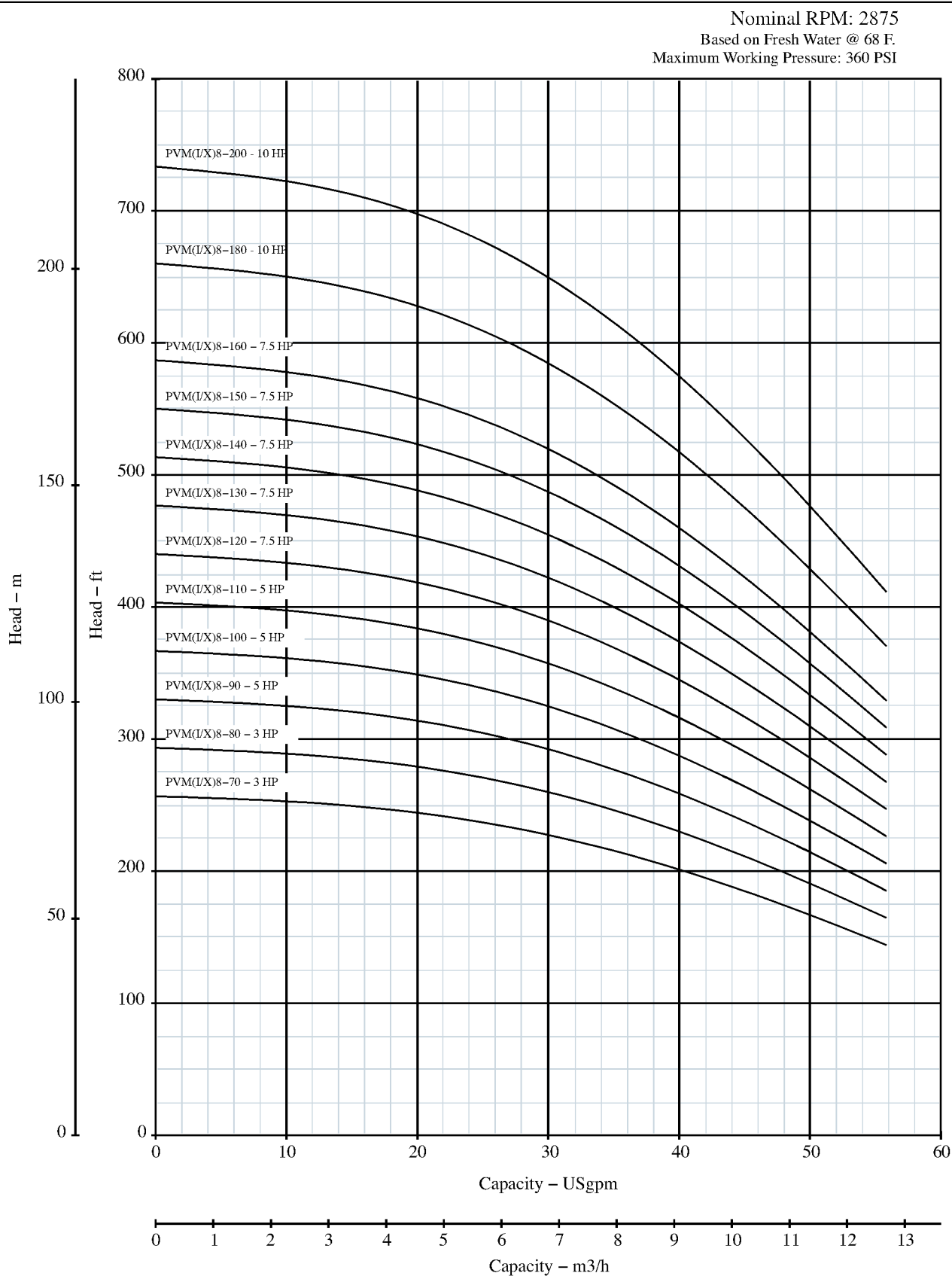
Construction Materials

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

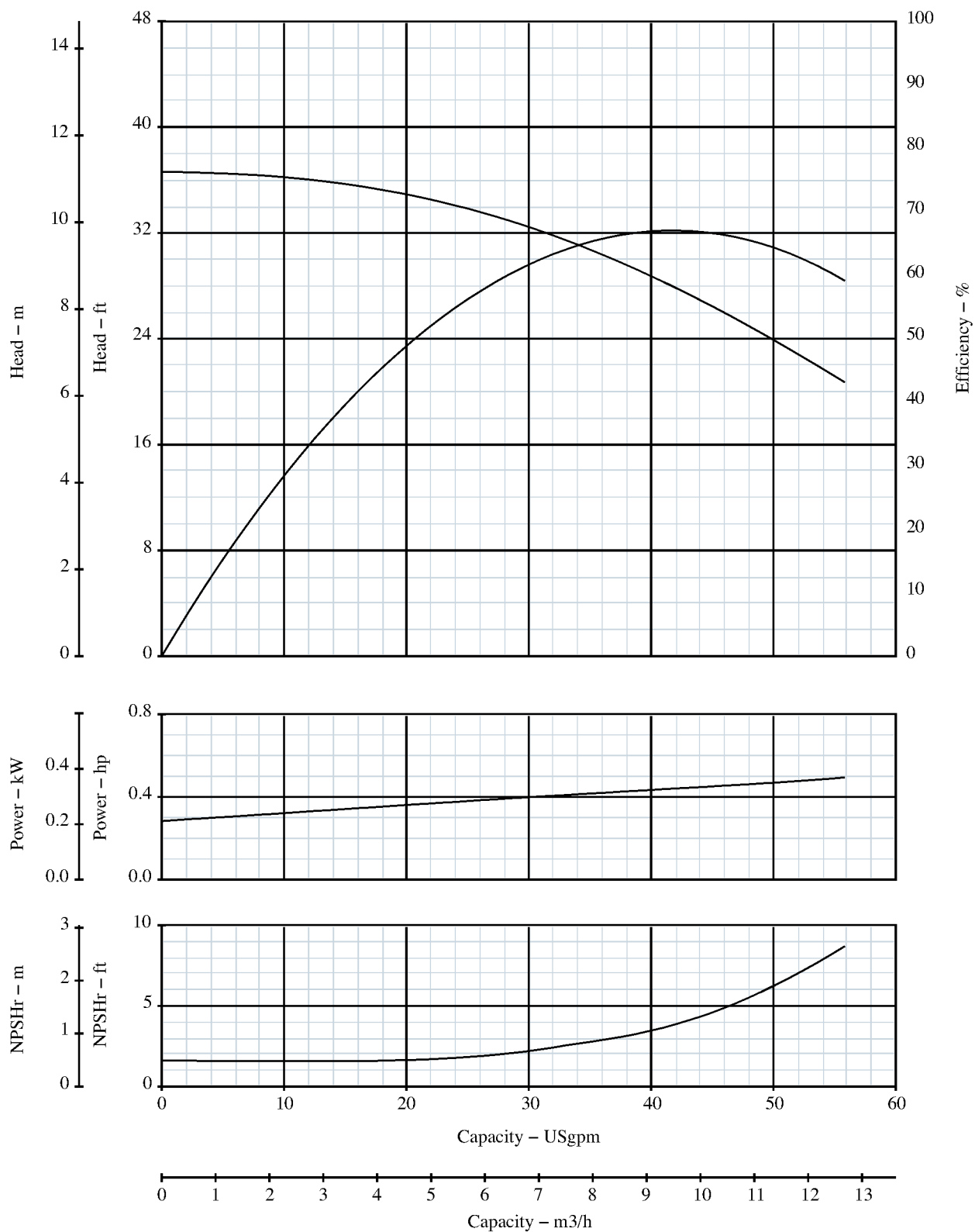
Performance Curves – PVM (IX) 8 Series



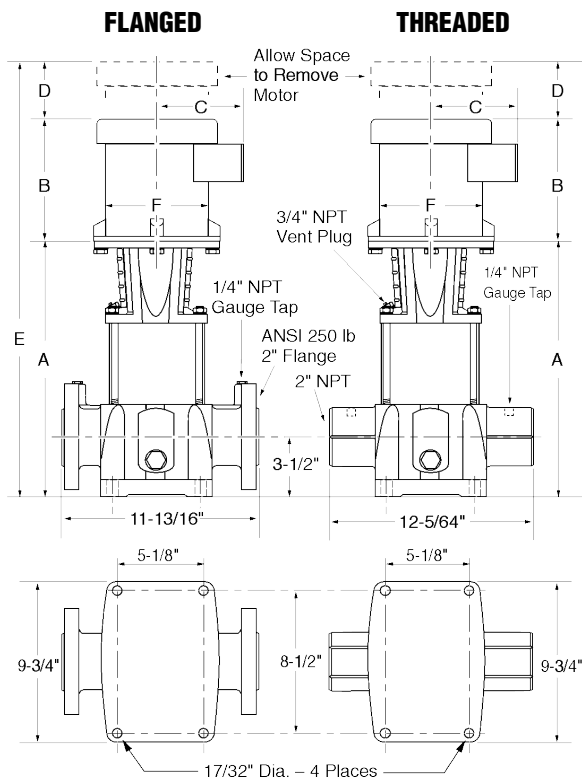
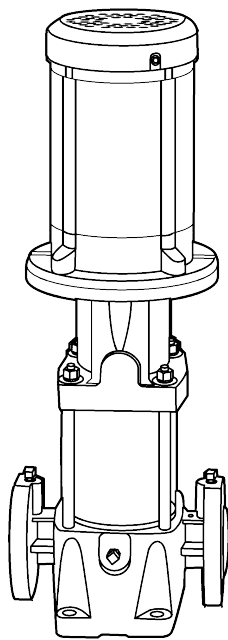
Performance Curves – PVM (I/X) 8 Series



Single Stage Performance Data – PVM (I/X) 8 Series



Cast Iron Construction



Technical Information

MINIMUM PUMPING RATES: 5.3 GPM

FLOW RANGE: 5.3 – 56 GPM

MINIMUM SUCTION PIPE SIZES:
2" Nominal Diameter, Schedule 40 Pipe

MAXIMUM INLET PRESSURE:

20/1 - 40 – 90 PSI

50 - 160 – 145 PSI

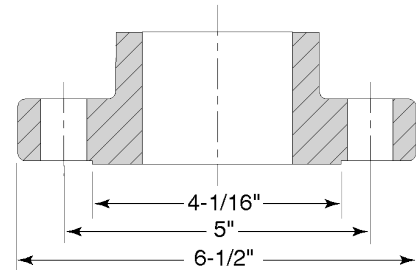
MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 29.

2" ANSI, 250 lb. 8-Bolt Flange



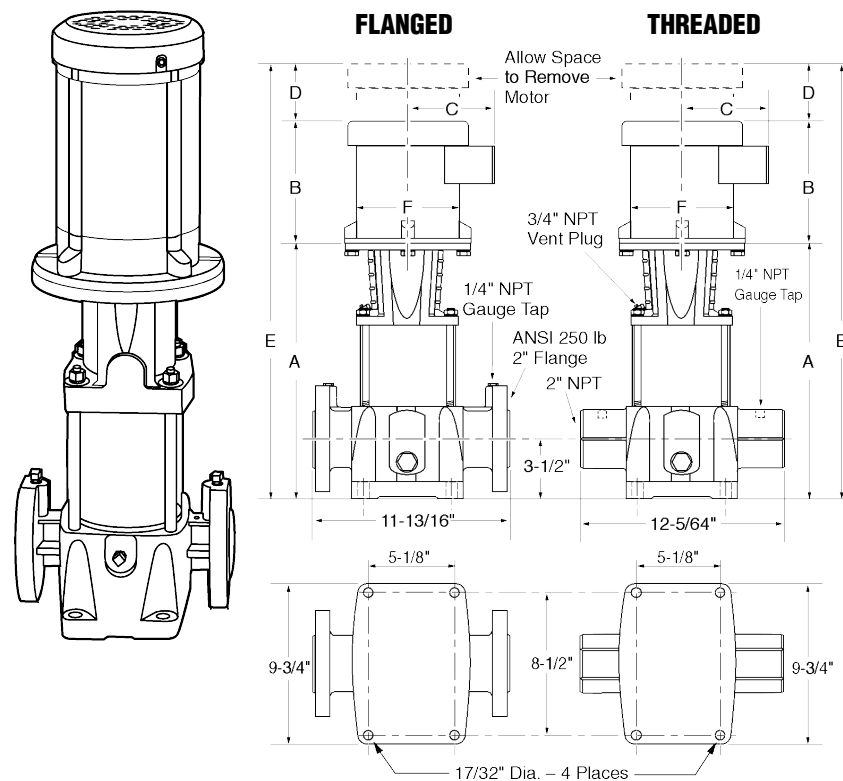
Dimensions and Specifications – PVM 8 Series

1/2 thru 5 HP

Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM8-20/1	0.5	1.25	3	190/380	56CZ	2	2	15.00 (381)	9.29 (236)	4.90 (124)	2.06 (52)	26.35 (669)	6.04 (153)	73 (33.1)
PVM8-20	1	1.25	3	190/380	56CZ	2	2	15.00 (381)	10.17 (258)	5.73 (146)	2.07 (53)	27.24 (692)	7.19 (183)	77 (34.9)
PVM8-30	1.5	1.15	3	190/380	56CZ	2	2	17.75 (451)	11.17 (284)	5.73 (146)	2.07 (53)	30.99 (787)	7.19 (183)	89 (40.4)
PVM8-40	2	1.4	3	190/380	182TCZ	2	2	18.88 (479)	12.30 (312)	6.87 (174)	2.87 (73)	34.05 (865)	8.60 (218)	92 (41.7)
PVM8-50	2	1.4	3	190/380	182TCZ	2	2	20.13 (511)	12.30 (312)	6.87 (174)	2.87 (73)	35.30 (896)	8.60 (218)	95 (43.1)
PVM8-60	3	1.4	3	190/380	184TCZ	2	2	21.25 (540)	13.68 (347)	6.87 (174)	2.87 (73)	37.80 (960)	8.60 (218)	98 (44.5)
PVM8-70	3	1.4	3	190/380	184TCZ	2	2	21.25 (540)	13.68 (347)	6.87 (174)	2.87 (73)	37.80 (960)	8.60 (218)	101 (45.8)
PVM8-80	3	1.4	3	190/380	184TCZ	2	2	23.63 (600)	13.68 (347)	6.87 (174)	2.87 (73)	40.18 (1020)	8.60 (218)	104 (47.2)
PVM8-90	5	1.15	3	190/380	213TCZ	2	2	26.00 (660)	15.28 (388)	7.46 (189)	3.37 (86)	44.65 (1134)	10.22 (260)	132 (59.9)
PVM8-100	5	1.15	3	190/380	213TCZ	2	2	26.00 (660)	15.28 (388)	7.46 (189)	3.37 (86)	44.65 (1134)	10.22 (260)	135 (61.2)
PVM8-110	5	1.15	3	190/380	213TCZ	2	2	28.38 (721)	15.28 (388)	7.46 (189)	3.37 (86)	47.03 (1194)	10.22 (260)	138 (62.6)

* Measurements represent the largest number possible for each model using standard efficiency motors.

Cast Iron Construction



Technical Information

MINIMUM PUMPING RATES: 5.3 GPM

FLOW RANGE: 5.3 – 56 GPM

MINIMUM SUCTION PIPE SIZES:
2" Nominal Diameter, Schedule 40 Pipe

MAXIMUM INLET PRESSURE:

20/1 - 40 – 90 PSI

50 - 160 – 145 PSI

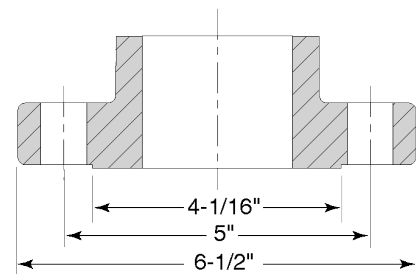
MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 29.

2" ANSI, 250 lb. 8-Bolt Flange



Dimensions and Specifications – PVM 8 Series

7-1/2 thru 10 HP

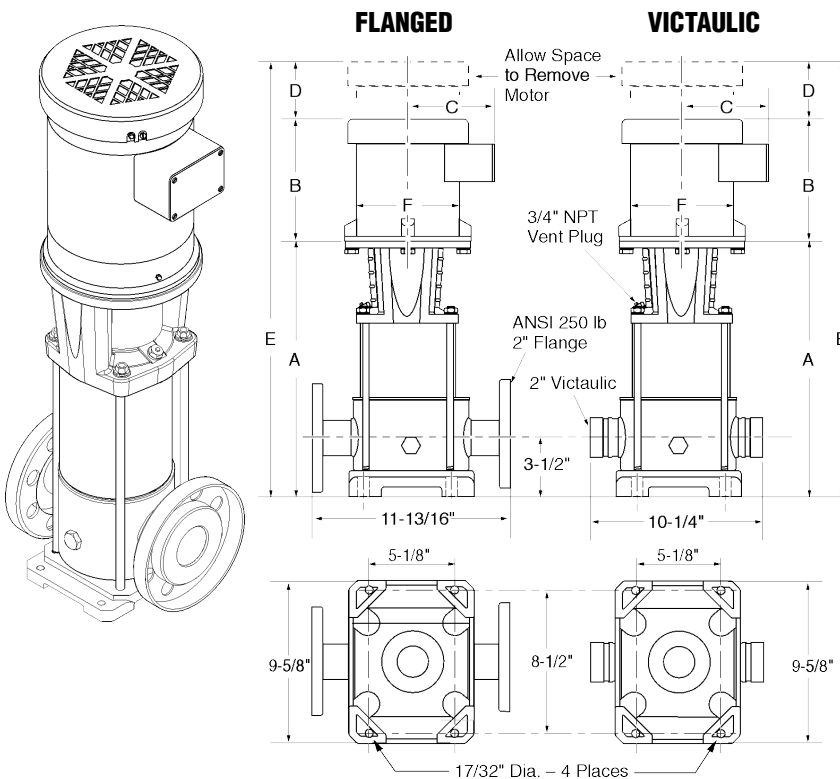
Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM8-120	7.5	1.15	3	190/380	215TCZ	2	2	28.38 (721)	15.28 (388)	8.05 (204)	3.38 (86)	47.04 (1195)	10.34 (263)	141 (64.0)
PVM8-130	7.5	1.15	3	190/380	215TCZ	2	2	28.38 (721)	15.28 (388)	8.05 (204)	3.38 (86)	47.04 (1195)	10.34 (263)	144 (65.3)
PVM8-140	7.5	1.15	3	190/380	215TCZ	2	2	30.75 (781)	15.28 (388)	8.05 (204)	3.38 (86)	49.41 (1255)	10.34 (263)	147 (66.7)
PVM8-150	7.5	1.15	3	190/380	215TCZ	2	2	33.63 (854)	15.28 (388)	8.05 (204)	3.38 (86)	52.29 (1328)	10.34 (263)	150 (68.0)
PVM8-160	8	1.15	3	190/380	215TCZ	2	2	33.63 (854)	15.28 (388)	8.05 (204)	3.38 (86)	52.29 (1328)	10.34 (263)	153 (69.4)
PVM8-180	10	1.15	3	190/380	254TCZ	2	2	36.50 (927)	19.66 (499)	9.49 (241)	4.25 (108)	60.41 (1534)	12.94 (329)	159 (72.1)
PVM8-200	10	1.15	3	190/380	254TCZ	2	2	39.38 (1000)	19.66 (499)	9.49 (241)	4.25 (108)	63.29 (1607)	12.94 (329)	165 (74.8)

* Measurements represent the largest number possible for each model using standard efficiency motors.

PVM (I/X) 8 SERIES

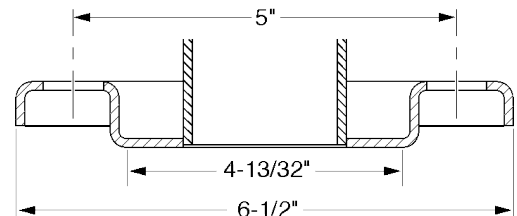


304 SS and 316 SS Construction



Technical Information

MINIMUM PUMPING RATES: 5.3 GPM
FLOW RANGE: 5.3 – 56 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
CONSTRUCTION MATERIALS: See Page 29.



Dimensions and Specifications – PVM (I/X) 8 Series†

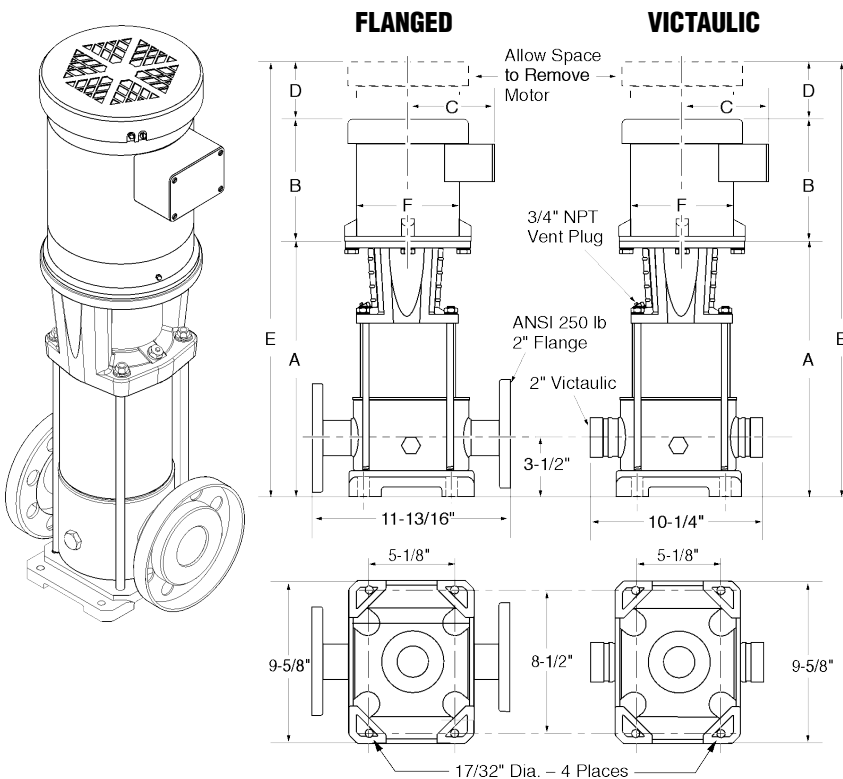
1/2 thru 5 HP

Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM(I/X)8-20/1	0.5	1.25	3	190/380	56CZ	2	2	15.00 (381)	9.29 (236)	4.90 (124)	2.06 (52)	26.35 (669)	6.04 (153)	38 (17.2)
PVM(I/X)8-20	1	1.25	3	190/380	56CZ	2	2	15.00 (381)	10.17 (258)	5.73 (146)	2.07 (53)	27.24 (692)	7.19 (183)	42 (19.1)
PVM(I/X)8-30	1.5	1.15	3	190/380	56CZ	2	2	17.75 (451)	11.17 (284)	5.73 (146)	2.07 (53)	30.99 (787)	7.19 (183)	54 (24.5)
PVM(I/X)8-40	2	1.4	3	190/380	182TCZ	2	2	18.88 (479)	12.30 (312)	6.87 (174)	2.87 (73)	34.05 (865)	8.60 (218)	57 (25.9)
PVM(I/X)8-50	2	1.4	3	190/380	182TCZ	2	2	20.13 (511)	12.30 (312)	6.87 (174)	2.87 (73)	35.30 (896)	8.60 (218)	60 (27.2)
PVM(I/X)8-60	3	1.4	3	190/380	184TCZ	2	2	21.25 (540)	13.68 (347)	6.87 (174)	2.87 (73)	37.80 (960)	8.60 (218)	63 (28.6)
PVM(I/X)8-70	3	1.4	3	190/380	184TCZ	2	2	21.38 (543)	13.68 (347)	6.87 (174)	2.87 (73)	37.93 (963)	8.60 (218)	66 (29.9)
PVM(I/X)8-80	3	1.4	3	190/380	184TCZ	2	2	23.63 (600)	13.68 (347)	6.87 (174)	2.87 (73)	40.18 (1020)	8.60 (218)	69 (31.3)
PVM(I/X)8-90	5	1.15	3	190/380	213TCZ	2	2	26.13 (664)	15.28 (388)	7.46 (189)	3.37 (86)	44.78 (1137)	10.22 (260)	97 (44.0)
PVM(I/X)8-100	5	1.15	3	190/380	213TCZ	2	2	26.00 (660)	15.28 (388)	7.46 (189)	3.37 (86)	44.65 (1134)	10.22 (260)	100 (45.4)
PVM(I/X)8-110	5	1.15	3	190/380	213TCZ	2	2	28.50 (724)	15.28 (388)	7.46 (189)	3.37 (86)	47.15 (1198)	10.22 (260)	103 (46.7)

* Measurements represent the largest number possible for each model using standard efficiency motors.

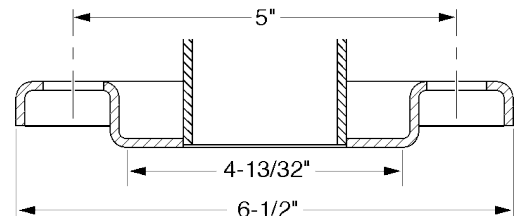
† Includes PMVI models constructed of 304 Stainless Steel and PVMX models constructed of 316 Stainless Steel.

304 SS and 316 SS Construction



Technical Information

MINIMUM PUMPING RATES: 5.3 GPM
FLOW RANGE: 5.3 – 56 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
CONSTRUCTION MATERIALS: See Page 29.



Dimensions and Specifications – PVM (I/X) 8 Series†

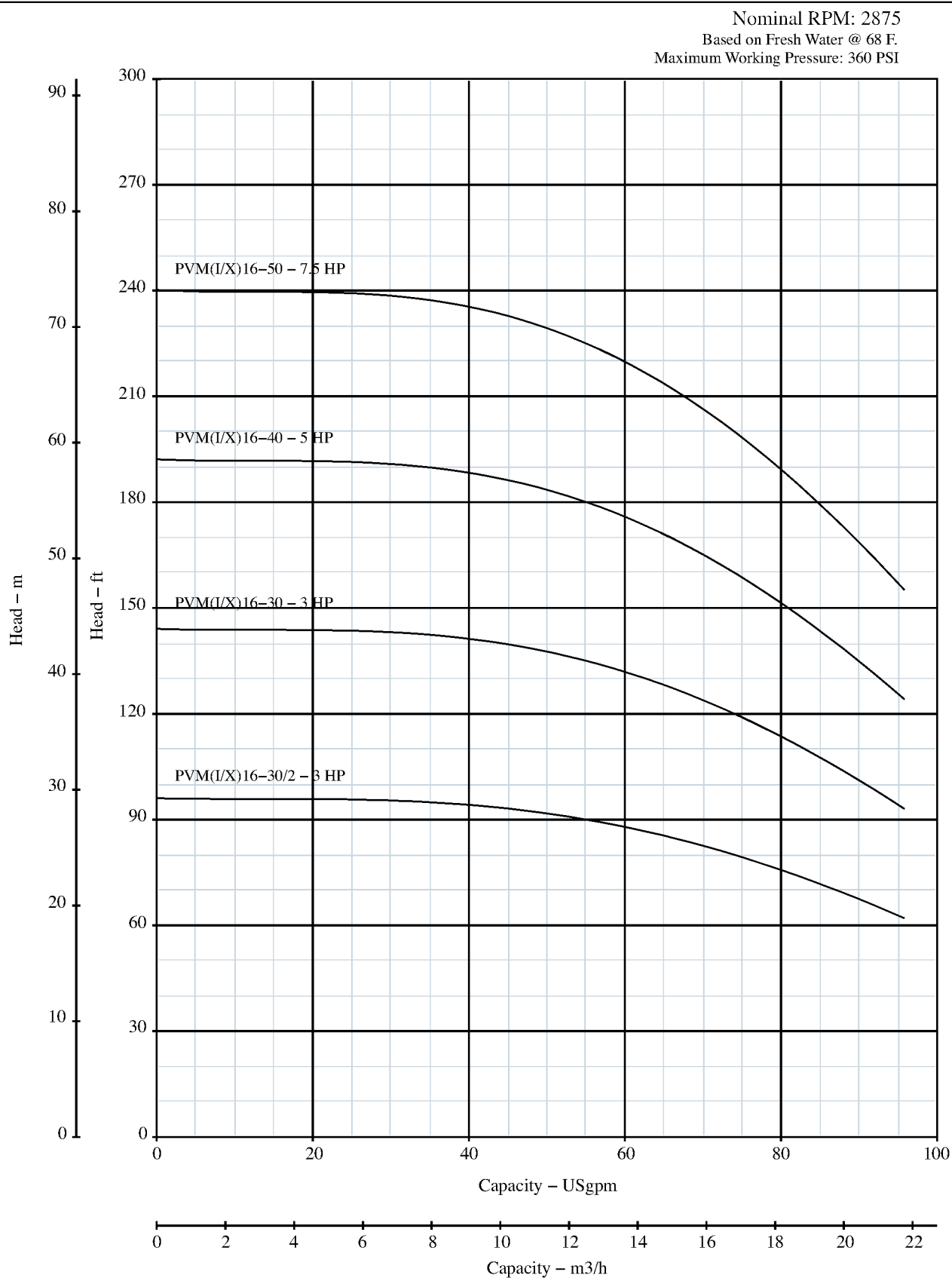
7-1/2 thru 10 HP

Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM(I/X)8-120	7.5	1.15	3	190/380	215TCZ	2	2	28.38 (721)	15.28 (388)	8.05 (204)	3.38 (86)	47.04 (1195)	10.34 (263)	106 (48.1)
PVM(I/X)8-130	7.5	1.15	3	190/380	215TCZ	2	2	28.50 (724)	15.28 (388)	8.05 (204)	3.38 (86)	47.16 (1198)	10.34 (263)	109 (49.4)
PVM(I/X)8-140	7.5	1.15	3	190/380	215TCZ	2	2	30.75 (781)	15.28 (388)	8.05 (204)	3.38 (86)	49.41 (1255)	10.34 (263)	112 (50.8)
PVM(I/X)8-150	7.5	1.15	3	190/380	215TCZ	2	2	33.75 (857)	15.28 (388)	8.05 (204)	3.38 (86)	52.41 (1331)	10.34 (263)	115 (52.2)
PVM(I/X)8-160	8	1.15	3	190/380	215TCZ	2	2	33.63 (854)	15.28 (388)	8.05 (204)	3.38 (86)	52.29 (1328)	10.34 (263)	118 (53.5)
PVM(I/X)8-180	10	1.15	3	190/380	254TCZ	2	2	36.50 (927)	19.66 (499)	9.49 (241)	4.25 (108)	60.41 (1534)	12.94 (329)	120 (54.4)
PVM(I/X)8-200	10	1.15	3	190/380	254TCZ	2	2	39.38 (1000)	19.66 (499)	9.49 (241)	4.25 (108)	63.29 (1607)	12.94 (329)	122 (55.3)

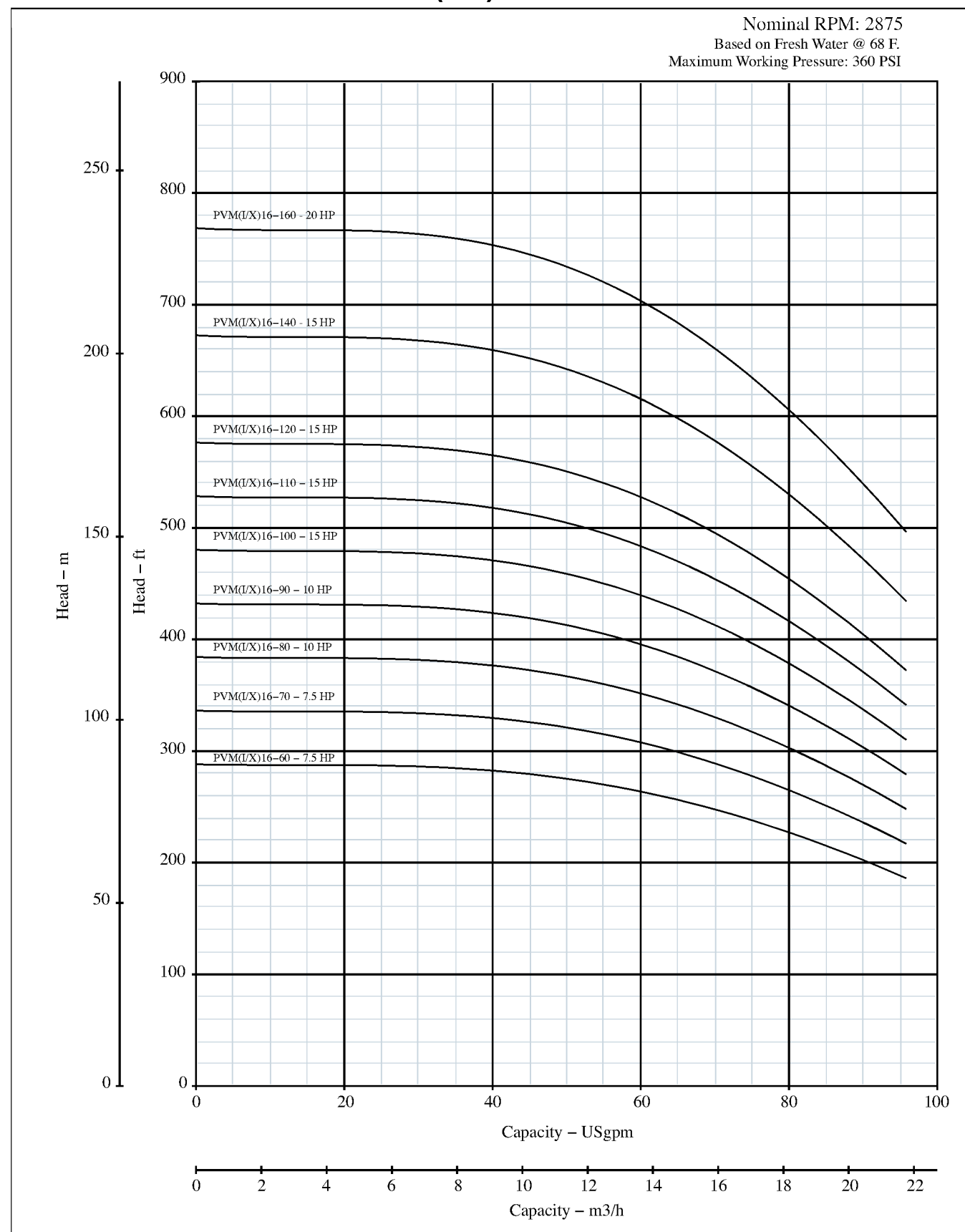
* Measurements represent the largest number possible for each model using standard efficiency motors.

† Includes PMVI models constructed of 304 Stainless Steel and PVMX models constructed of 316 Stainless Steel.

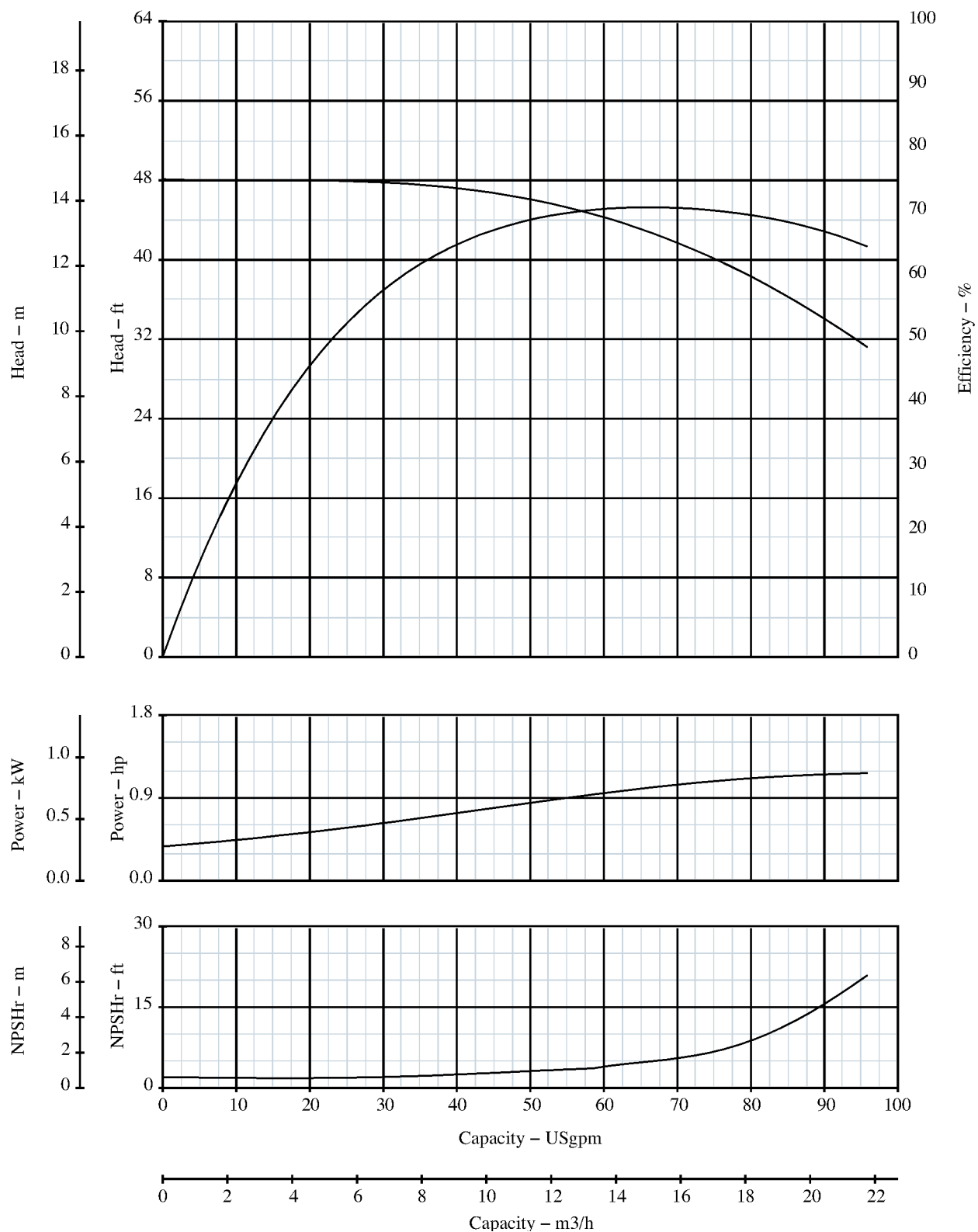
Performance Curves – PVM (I/X) 16 Series



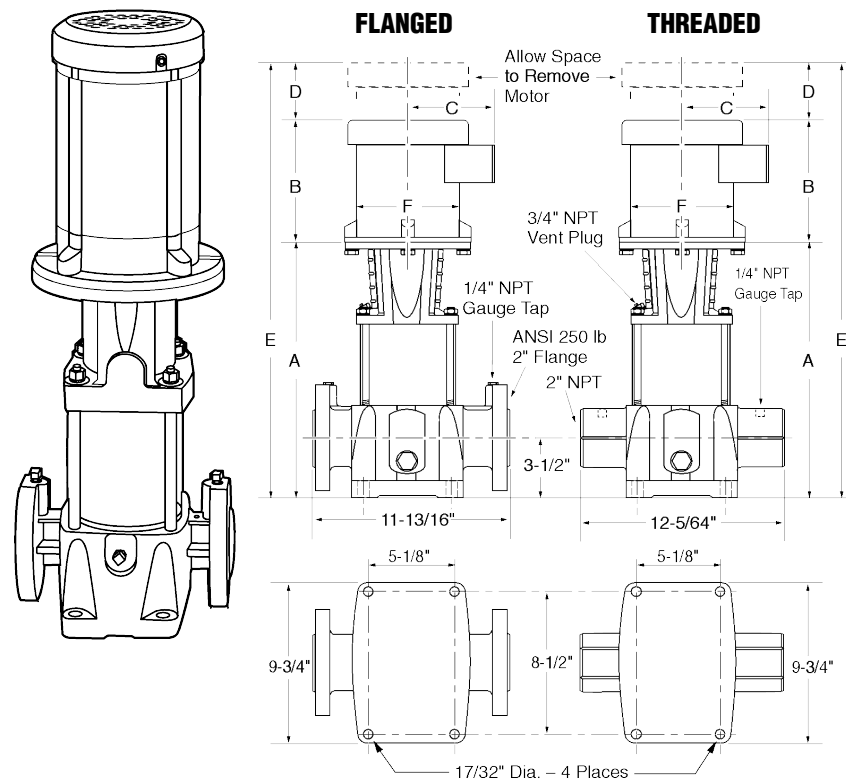
Performance Curves – PVM (I/X) 16 Series



Single Stage Performance Data – PVM (I/X) 16 Series



Cast Iron Construction



Technical Information

MINIMUM PUMPING RATES: 8.5 GPM

FLOW RANGE: 8.5 – 95 GPM

MINIMUM SUCTION PIPE SIZES:
2" Nominal Diameter, Schedule 40 Pipe

MAXIMUM INLET PRESSURE:

30/2 - 30 – 90 PSI

40 - 120 – 145 PSI

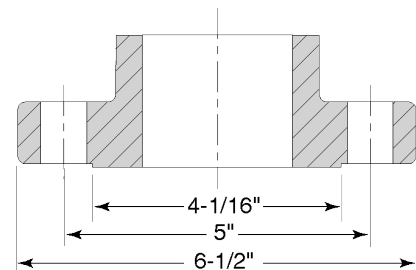
MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 29.

2" ANSI. 250 lb. 8-Bolt Flange



Dimensions and Specifications – PVM 16 Series

2 thru 20 HP

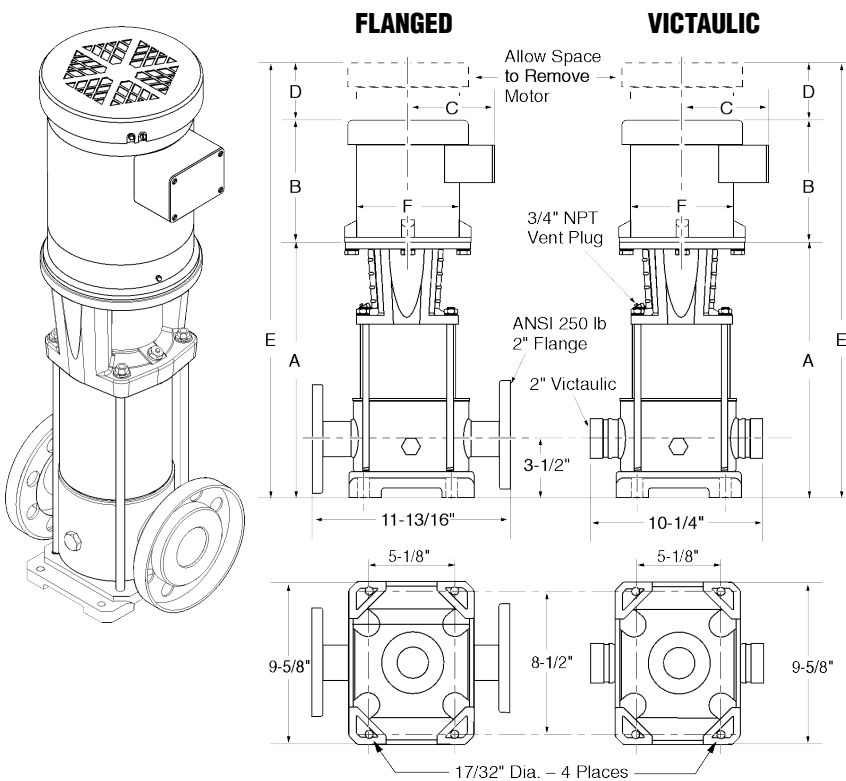
Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM16-30/2	2	1.4	3	190/380	182TCZ	2	2	19.63 (498)	12.30 (312)	6.87 (174)	2.87 (73)	34.80 (884)	8.60 (218)	115 (52.2)
PVM16-30	3	1.4	3	190/380	184TCZ	2	2	19.63 (498)	13.68 (347)	6.87 (174)	2.87 (73)	36.18 (919)	8.60 (218)	155 (70.3)
PVM16-40	5	1.15	3	190/380	213TCZ	2	2	21.38 (543)	15.28 (388)	7.46 (189)	3.37 (86)	40.03 (1017)	10.22 (260)	162 (73.5)
PVM16-50	7.5	1.15	3	190/380	215TCZ	2	2	23.13 (587)	15.28 (388)	8.05 (204)	3.38 (86)	41.79 (1061)	10.34 (263)	169 (76.7)
PVM16-60	7.5	1.15	3	190/380	215TCZ	2	2	25.38 (645)	15.28 (388)	8.05 (204)	3.38 (86)	44.04 (1118)	10.34 (263)	188 (85.3)
PVM16-70	7.5	1.15	3	190/380	215TCZ	2	2	27.13 (689)	15.28 (388)	8.05 (204)	3.38 (86)	45.79 (1163)	10.34 (263)	195 (88.5)
PVM16-80	10	1.15	3	190/380	254TCZ	2	2	28.88 (733)	19.66 (499)	9.49 (241)	4.25 (108)	52.79 (1341)	12.94 (329)	202 (91.6)
PVM16-90	10	1.15	3	190/380	254TCZ	2	2	30.25 (768)	19.66 (499)	9.49 (241)	4.25 (108)	54.16 (1376)	12.94 (329)	209 (94.8)
PVM16-100	15	1.15	3	190/380	254TCZ	2	2	32.00 (813)	16.61 (422)	9.18 (233)	4.00 (102)	52.61 (1336)	10.34 (263)	216 (98.0)
PVM16-110	15	1.15	3	190/380	254TCZ	2	2	33.63 (854)	16.61 (422)	9.18 (233)	4.00 (102)	54.24 (1378)	10.34 (263)	223 (101.2)
PVM16-120	15	1.15	3	190/380	254TCZ	2	2	35.38 (899)	16.61 (422)	9.18 (233)	4.00 (102)	55.99 (1422)	10.34 (263)	230 (104.3)
PVM16-140	15	1.15	3	190/380	254TCZ	2	2	38.75 (984)	16.61 (422)	9.18 (233)	4.00 (102)	59.36 (1508)	10.34 (263)	237 (107.5)
PVM16-160	20	1.15	3	190/380	284TSCZ	2	2	42.13 (1070)	19.72 (501)	9.49 (241)	3.25 (83)	65.10 (1653)	12.94 (329)	245 (111.1)

* Measurements represent the largest number possible for each model using standard efficiency motors.

PVM (I/X) 16 SERIES



304 SS and 316 SS Construction



Technical Information

MINIMUM PUMPING RATES: 8.5 GPM

FLOW RANGE: 8.5 – 95 GPM

MINIMUM SUCTION PIPE SIZES:
2" Nominal Diameter, Schedule 40 Pipe

MAXIMUM INLET PRESSURE:

30/2 - 30 – 90 PSI

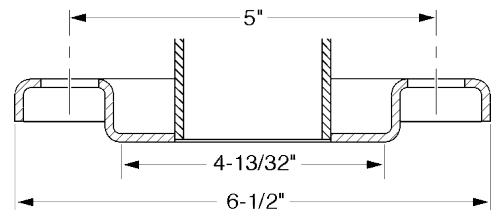
40 - 120 – 145 PSI

MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

CONSTRUCTION MATERIALS: See Page 29.



Dimensions and Specifications – PVM (I/X) 16 Series†

2 thru 20 HP

Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM(I/X)16-30/2	2	1.4	3	190/380	182TCZ	2	2	19.50 (495)	12.30 (312)	6.87 (174)	2.87 (73)	34.67 (881)	8.60 (218)	54 (24.5)
PVM(I/X)16-30	3	1.4	3	190/380	184TCZ	2	2	19.50 (495)	13.68 (347)	6.87 (174)	2.87 (73)	36.05 (916)	8.60 (218)	94 (42.6)
PVM(I/X)16-40	5	1.15	3	190/380	213TCZ	2	2	21.38 (543)	15.28 (388)	7.46 (189)	3.37 (86)	40.03 (1017)	10.22 (260)	101 (45.8)
PVM(I/X)16-50	7.5	1.15	3	190/380	215TCZ	2	2	23.13 (587)	15.28 (388)	8.05 (204)	3.38 (86)	41.79 (1061)	10.34 (263)	108 (49.0)
PVM(I/X)16-60	7.5	1.15	3	190/380	215TCZ	2	2	25.38 (645)	15.28 (388)	8.05 (204)	3.38 (86)	44.04 (1118)	10.34 (263)	127 (57.6)
PVM(I/X)16-70	7.5	1.15	3	190/380	215TCZ	2	2	27.13 (689)	15.28 (388)	8.05 (204)	3.38 (86)	45.79 (1163)	10.34 (263)	134 (60.8)
PVM(I/X)16-80	10	1.15	3	190/380	254TCZ	2	2	28.88 (733)	19.66 (499)	9.49 (241)	4.25 (108)	52.79 (1341)	12.94 (329)	141 (64.0)
PVM(I/X)16-90	10	1.15	3	190/380	254TCZ	2	2	30.25 (768)	19.66 (499)	9.49 (241)	4.25 (108)	54.16 (1376)	12.94 (329)	148 (67.1)
PVM(I/X)16-100	15	1.15	3	190/380	254TCZ	2	2	32.00 (813)	16.61 (422)	9.18 (233)	4.00 (102)	52.61 (1336)	10.34 (263)	155 (70.3)
PVM(I/X)16-110	15	1.15	3	190/380	254TCZ	2	2	33.75 (857)	16.61 (422)	9.18 (233)	4.00 (102)	54.36 (1381)	10.34 (263)	162 (73.5)
PVM(I/X)16-120	15	1.15	3	190/380	254TCZ	2	2	35.38 (899)	16.61 (422)	9.18 (233)	4.00 (102)	55.99 (1422)	10.34 (263)	169 (76.7)
PVM(I/X)16-140	15	1.15	3	190/380	254TCZ	2	2	38.75 (984)	16.61 (422)	9.18 (233)	4.00 (102)	59.36 (1508)	10.34 (263)	173 (78.5)
PVM(I/X)16-160	20	1.15	3	190/380	284TSCZ	2	2	42.13 (1070)	19.72 (501)	9.49 (241)	3.25 (83)	65.10 (1653)	12.94 (329)	177 (80.3)

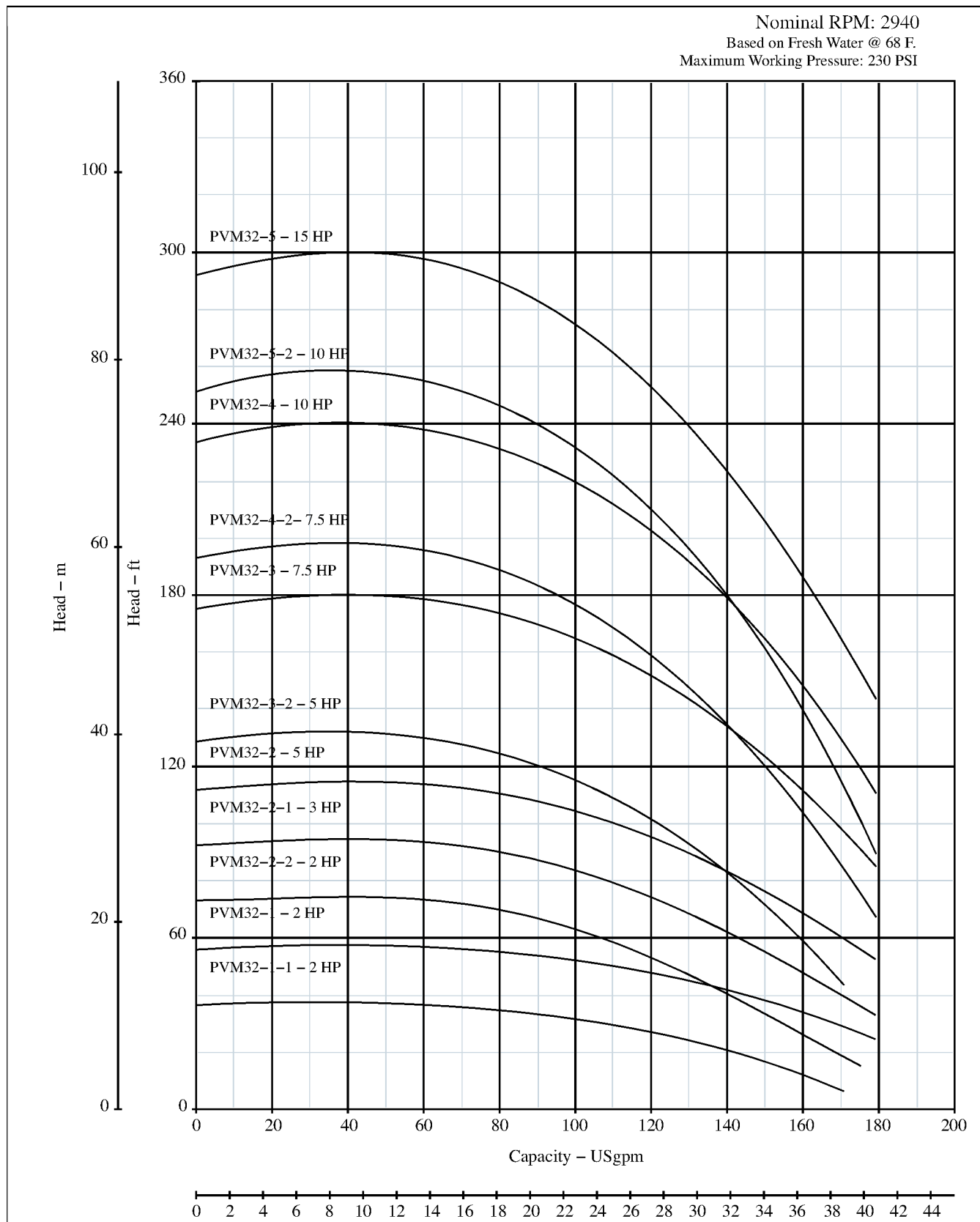
* Measurements represent the largest number possible for each model using standard efficiency motors.

† Includes PMVI models constructed of 304 Stainless Steel and PVMX models constructed of 316 Stainless Steel.

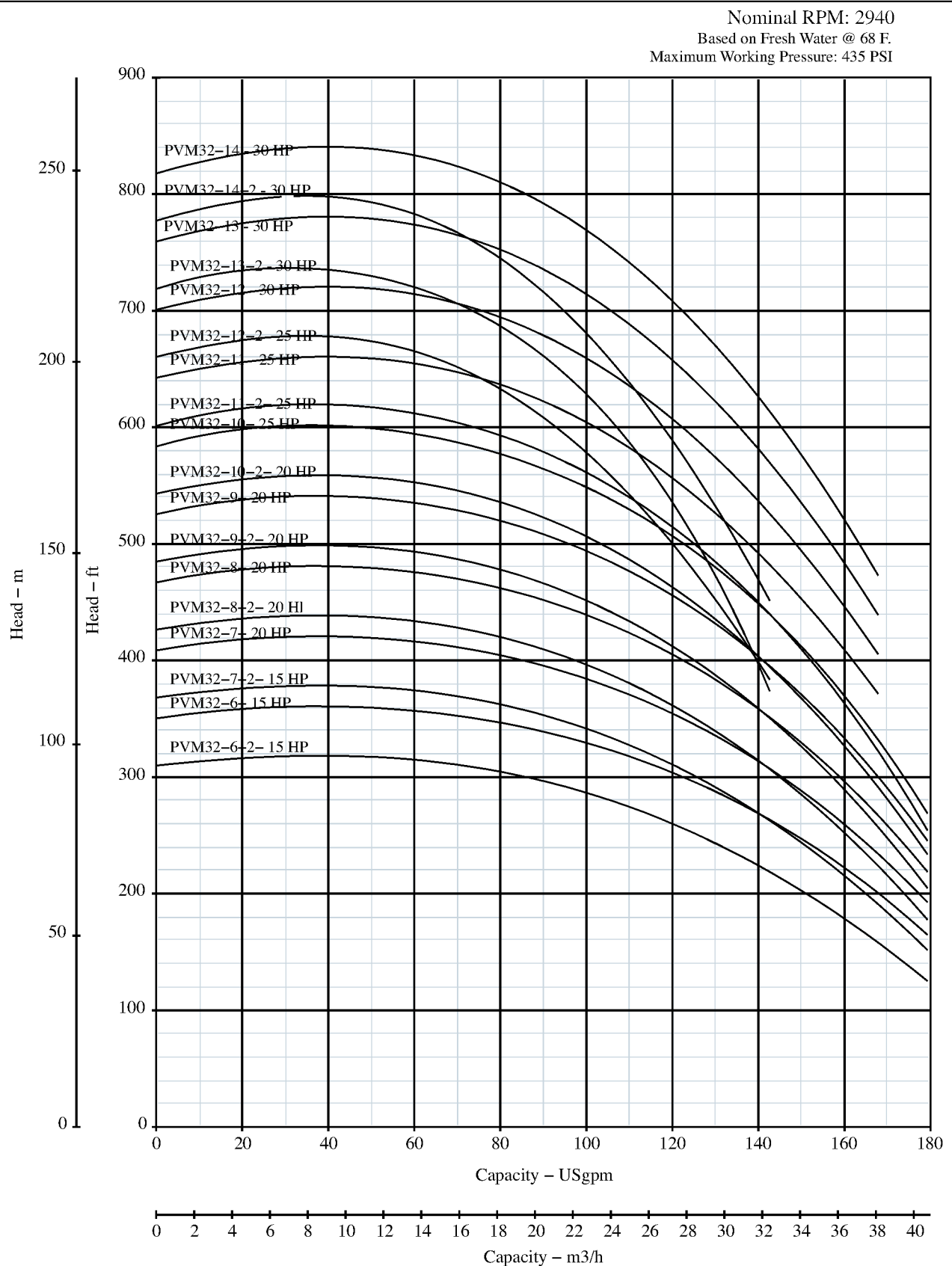
Construction Materials

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

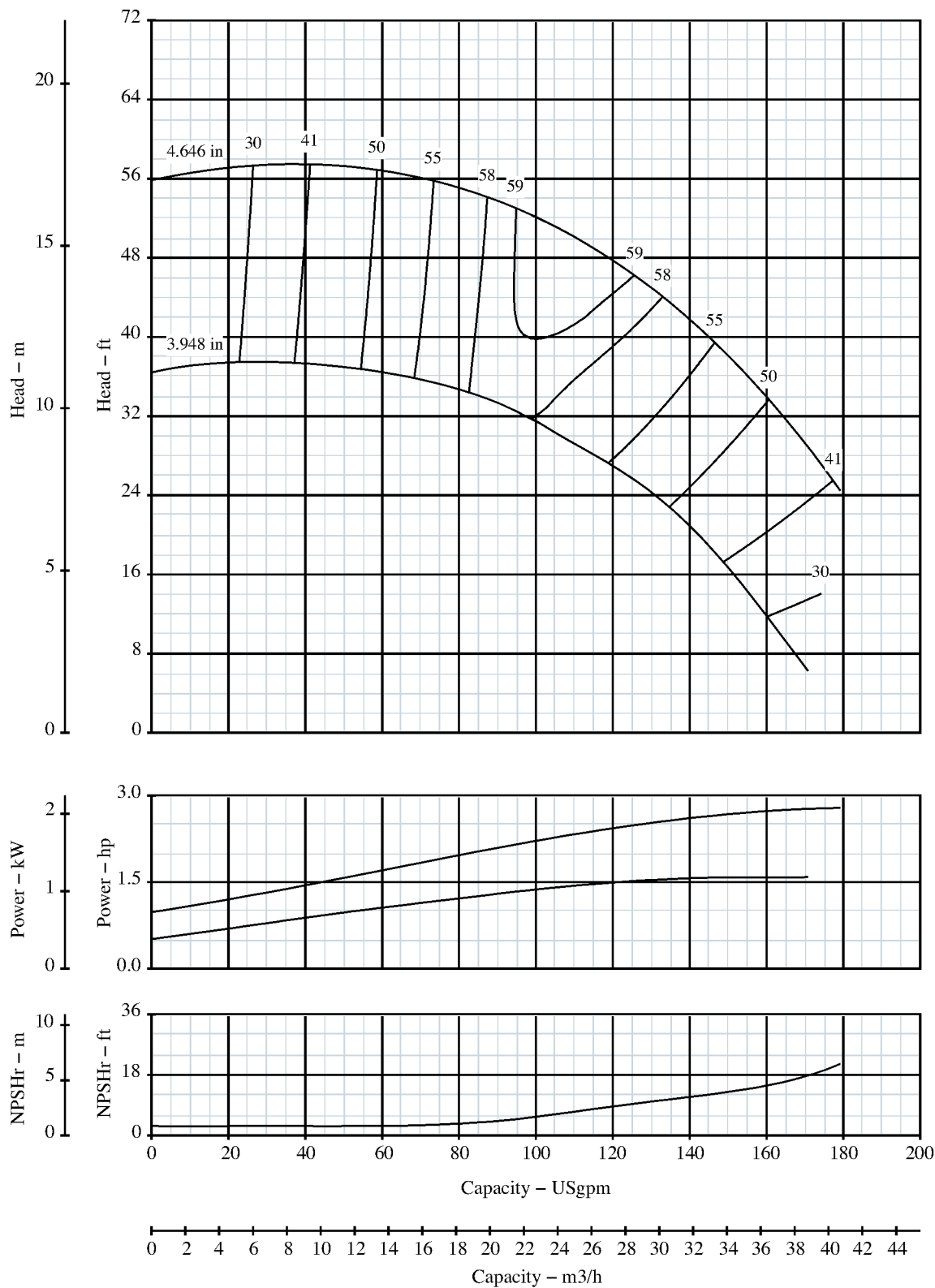
Performance Curves – PVM32 Series



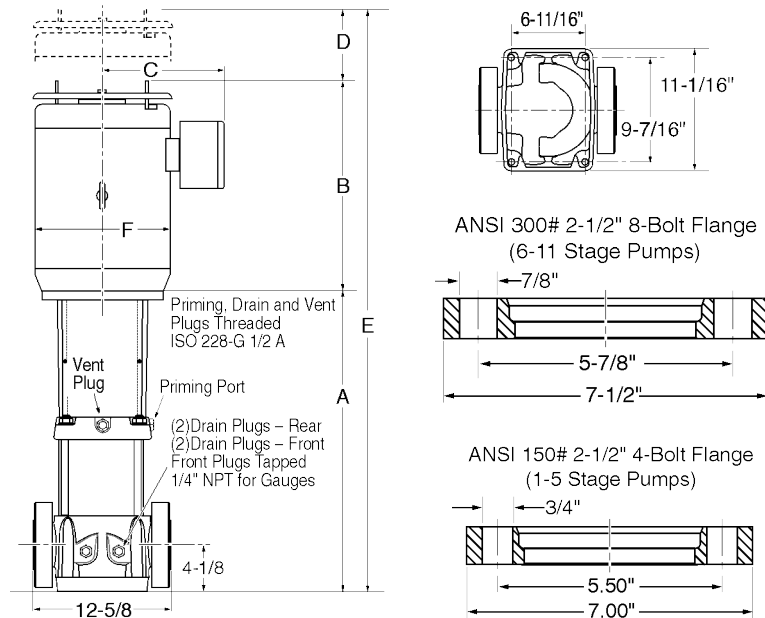
Performance Curves – PVM32 Series



Single Stage Performance Data – PVM32 Series



Cast Iron Construction



Technical Information

MINIMUM PUMPING RATES:

Up to 175° F - 15 GPM

175° F to 250° F - 35 GPM

FLOW RANGE: 15 – 180 GPM

MINIMUM SUCTION PIPE SIZES:

2-1/2" Nominal Diameter, Schedule 40 Pipe

MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

Single or Three Phase

For other options, consult factory.

CONSTRUCTION MATERIALS: See Page 34.

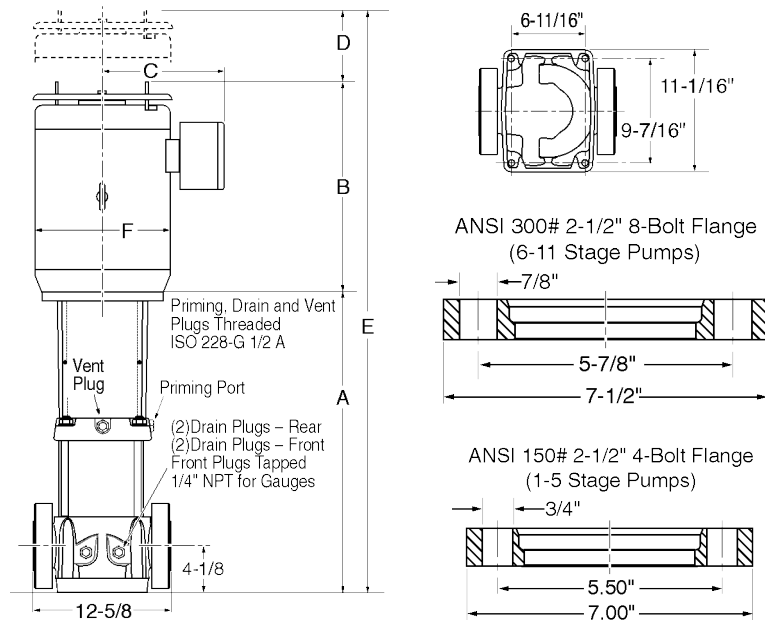
Dimensions and Specifications – PVM32 Series

2 thru 15 HP

Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM32-1-1	2	1.4	3	190/380	182TCZ	2 1/2	2 1/2	22.74 (578)	12.30 (312)	6.87 (174)	2.87 (73)	37.91 (963)	8.60 (218)	126 (57.2)
PVM32-1	2	1.4	3	190/380	182TCZ	2 1/2	2 1/2	22.74 (578)	12.30 (312)	6.87 (174)	2.87 (73)	37.91 (963)	8.60 (218)	126 (57.2)
PVM32-2-2	2	1.4	3	190/380	182TCZ	2 1/2	2 1/2	27.49 (698)	12.30 (312)	6.87 (174)	2.87 (73)	42.66 (1084)	8.60 (218)	218 (98.9)
PVM32-2-1	3	1.4	3	190/380	184TCZ	2 1/2	2 1/2	27.49 (698)	13.68 (347)	6.87 (174)	2.87 (73)	44.04 (1119)	8.60 (218)	221 (100.2)
PVM32-2	5	1.15	3	190/380	213TCZ	2 1/2	2 1/2	27.49 (698)	15.28 (388)	7.46 (189)	3.37 (86)	46.14 (1172)	10.22 (260)	222 (100.7)
PVM32-3-2	5	1.15	3	190/380	213TCZ	2 1/2	2 1/2	30.24 (768)	15.28 (388)	7.46 (189)	3.37 (86)	48.89 (1242)	10.22 (260)	224 (101.6)
PVM32-3	7.5	1.15	3	190/380	215TCZ	2 1/2	2 1/2	30.24 (768)	15.28 (388)	8.05 (204)	3.38 (86)	48.90 (1242)	10.34 (263)	255 (115.7)
PVM32-4-2	7.5	1.15	3	190/380	215TCZ	2 1/2	2 1/2	33.00 (838)	15.28 (388)	8.05 (204)	3.38 (86)	51.66 (1312)	10.34 (263)	259 (117.5)
PVM32-4	10	1.15	3	190/380	254TCZ	2 1/2	2 1/2	33.00 (838)	19.66 (499)	9.49 (241)	4.25 (108)	56.91 (1446)	12.94 (329)	260 (117.9)
PVM32-5-2	10	1.15	3	190/380	254TCZ	2 1/2	2 1/2	35.75 (908)	19.66 (499)	9.49 (241)	4.25 (108)	59.66 (1515)	12.94 (329)	267 (121.1)
PVM32-5	15	1.15	3	190/380	254TCZ	2 1/2	2 1/2	35.75 (908)	16.61 (422)	9.18 (233)	4.00 (102)	56.36 (1432)	10.34 (263)	266 (120.7)
PVM32-6-2	15	1.15	3	190/380	254TCZ	2 1/2	2 1/2	38.51 (978)	16.61 (422)	9.18 (233)	4.00 (102)	59.12 (1502)	10.34 (263)	310 (140.6)
PVM32-6	15	1.15	3	190/380	254TCZ	2 1/2	2 1/2	38.51 (978)	16.61 (422)	9.18 (233)	4.00 (102)	59.12 (1502)	10.34 (263)	312 (141.5)
PVM32-7-2	15	1.15	3	190/380	254TCZ	2 1/2	2 1/2	41.25 (1048)	16.61 (422)	9.18 (233)	4.00 (102)	61.86 (1571)	10.34 (263)	319 (144.7)

* Measurements represent the largest number possible for each model using standard efficiency motors.

Cast Iron Construction



Technical Information

MINIMUM PUMPING RATES:

Up to 175° F - 15 GPM

175° F to 250° F - 35 GPM

FLOW RANGE: 15 – 180 GPM

MINIMUM SUCTION PIPE SIZES:

2-1/2" Nominal Diameter, Schedule 40 Pipe

MAXIMUM AMBIENT TEMPERATURE: 104° F

LIQUID TEMPERATURE RANGE: +5° F to +250° F

MOTOR OPTIONS: TEFC or ODP

Single or Three Phase

For other options, consult factory.

CONSTRUCTION MATERIALS: See Page 34.

Dimensions and Specifications – PVM32 Series

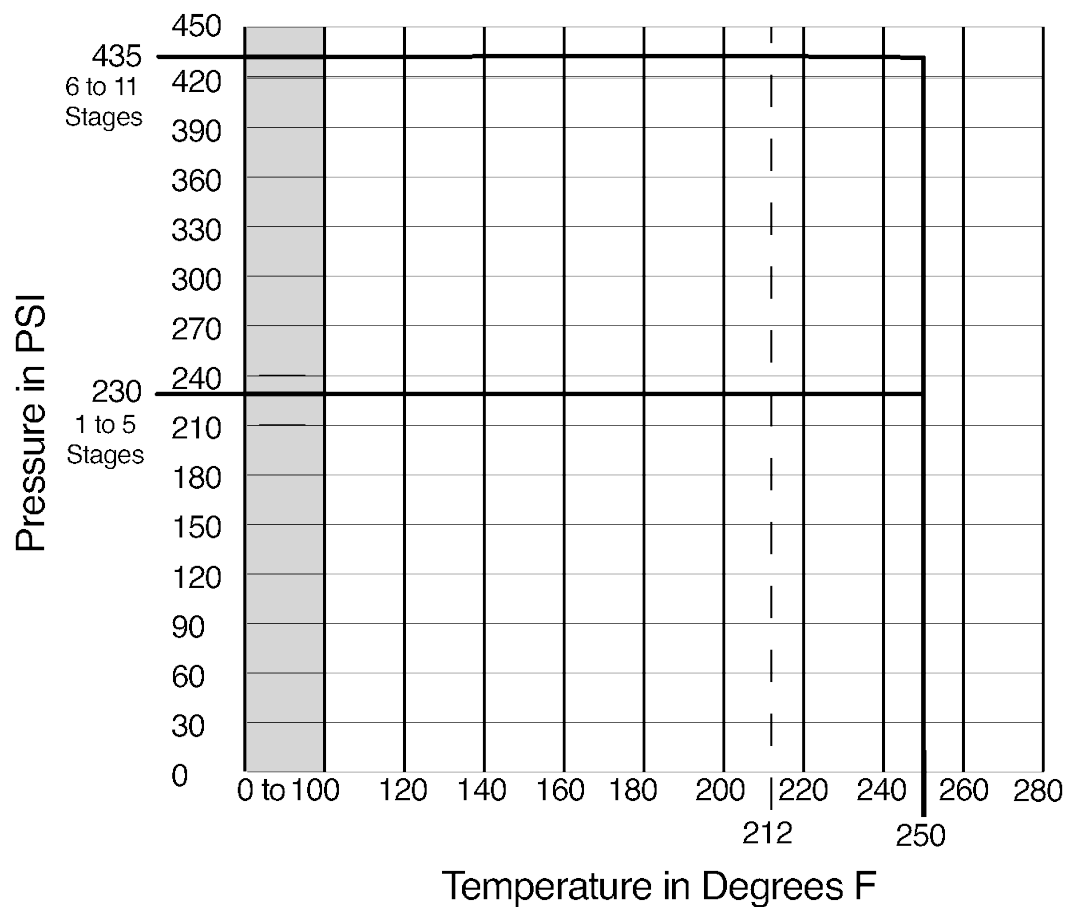
20 thru 30 HP

Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Pump Only Wt.
								A	B	C	D	E	F	
PVM32-7	20	1.15	3	190/380	284TSCZ	2 1/2	2 1/2	41.25 (1048)	19.72 (501)	9.49 (241)	3.25 (83)	64.22 (1631)	12.94 (329)	319 (144.7)
PVM32-8-2	20	1.15	3	190/380	284TSCZ	2 1/2	2 1/2	44.02 (1118)	19.72 (501)	9.49 (241)	3.25 (83)	66.99 (1702)	12.94 (329)	332 (150.6)
PVM32-8	20	1.15	3	190/380	284TSCZ	2 1/2	2 1/2	44.02 (1118)	19.72 (501)	9.49 (241)	3.25 (83)	66.99 (1702)	12.94 (329)	332 (150.6)
PVM32-9-2	20	1.15	3	190/380	284TSCZ	2 1/2	2 1/2	46.78 (1188)	19.72 (501)	9.49 (241)	3.25 (83)	69.75 (1772)	12.94 (329)	399 (181.0)
PVM32-9	20	1.15	3	190/380	284TSCZ	2 1/2	2 1/2	46.78 (1188)	19.72 (501)	9.49 (241)	3.25 (83)	69.75 (1772)	12.94 (329)	399 (181.0)
PVM32-10-2	20	1.15	3	190/380	284TSCZ	2 1/2	2 1/2	49.53 (1258)	19.72 (501)	9.49 (241)	3.25 (83)	72.50 (1842)	12.94 (329)	407 (184.6)
PVM32-10	25	1.15	3	190/380	284TSCZ	2 1/2	2 1/2	49.53 (1258)	22.94 (583)	13.11 (333)	3.25 (83)	75.72 (1923)	15.56 (395)	417 (189.1)
PVM32-11-2	25	1.15	3	190/380	284TSCZ	2 1/2	2 1/2	52.29 (1328)	22.94 (583)	13.11 (333)	3.25 (83)	78.48 (1993)	15.56 (395)	427 (193.7)
PVM32-11	25	1.15	3	190/380	284TSCZ	2 1/2	2 1/2	52.29 (1328)	22.94 (583)	13.11 (333)	3.25 (83)	78.48 (1993)	15.56 (395)	427 (193.7)
PVM32-12-2	325	1.15	3	190/380	284TSCZ	2 1/2	2 1/2	55.05 (1398)	22.94 (583)	13.11 (333)	3.25 (83)	81.24 (2063)	15.56 (395)	437 (198.2)
PVM32-12	30	1.15	3	190/380	286TSCZ	2 1/2	2 1/2	55.05 (1398)	22.94 (583)	13.13 (334)	3.25 (83)	81.24 (2063)	15.56 (395)	437 (198.2)
PVM32-13-2	30	1.15	3	190/380	286TSCZ	2 1/2	2 1/2	57.81 (1468)	22.94 (583)	13.13 (334)	3.25 (83)	84.00 (2134)	15.56 (395)	447 (202.8)
PVM32-13	30	1.15	3	190/380	286TSCZ	2 1/2	2 1/2	57.81 (1468)	22.94 (583)	13.13 (334)	3.25 (83)	84.00 (2134)	15.56 (395)	447 (202.8)
PVM32-14-2	30	1.15	3	190/380	286TSCZ	2 1/2	2 1/2	60.57 (1538)	22.94 (583)	13.13 (334)	3.25 (83)	86.76 (2204)	15.56 (395)	457 (207.3)
PVM32-14	30	1.15	3	190/380	286TSCZ	2 1/2	2 1/2	60.57 (1538)	22.94 (583)	13.13 (334)	3.25 (83)	86.76 (2204)	15.56 (395)	457 (207.3)

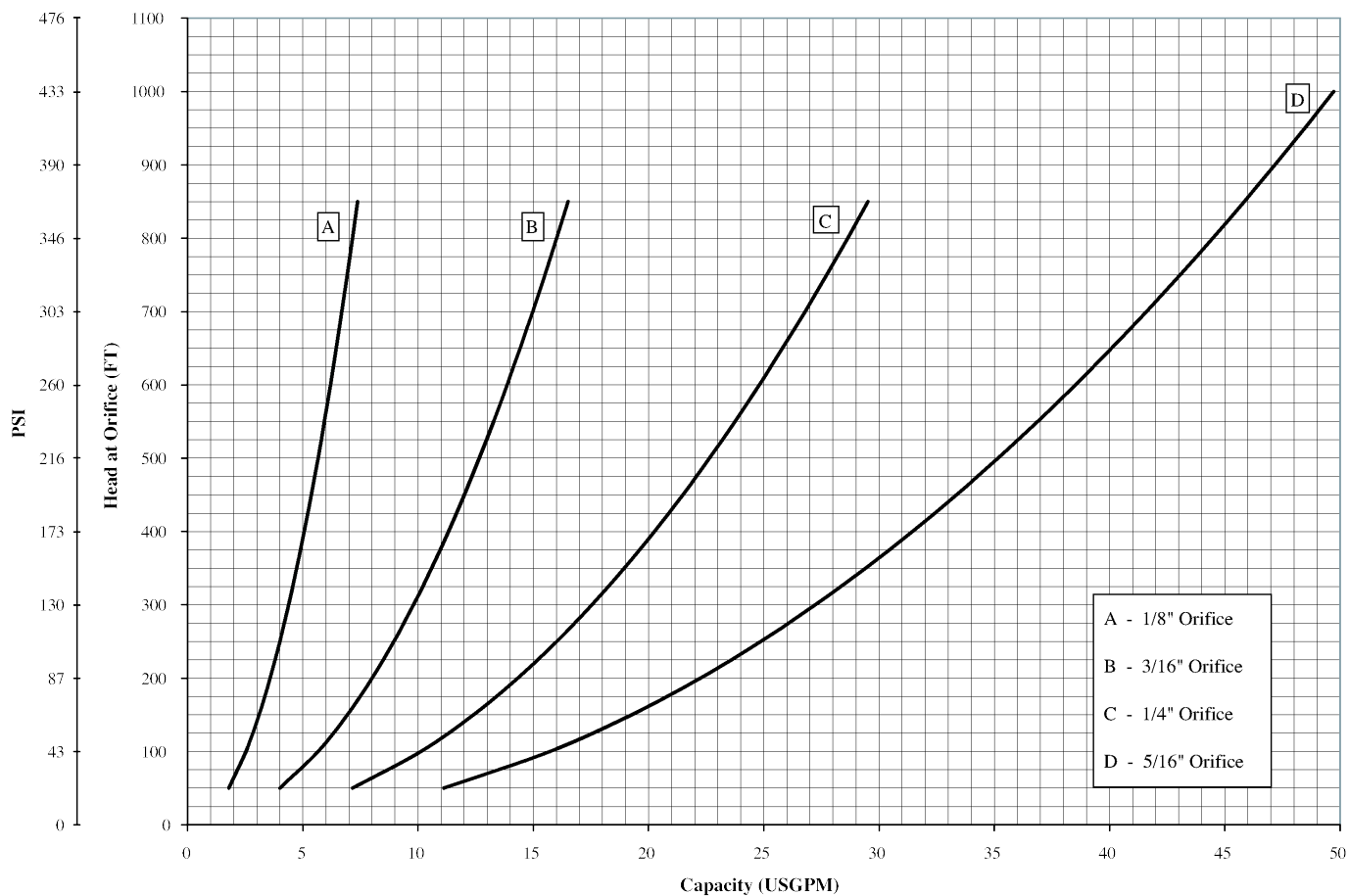
Materials of Construction

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

Permissible Operating Pressure Curves



Bypass Orifice Sizing



PENTAIR WATER LIMITED WARRANTY

Pentair Water warrants to the original consumer purchaser ("Purchaser") of its products that they are free from defects in material or workmanship.

If within twelve (12) months from the date of installation or twenty-four (24) months from the date of manufacture any such product shall prove to be defective, it shall be repaired or replaced at Pentair Water's option, subject to the terms and conditions set forth below.

General Terms and Conditions

Purchaser must pay all labor and shipping charges necessary to replace product covered by this warranty. This warranty shall not apply to products which, in the sole judgement of Pentair Water, have been subject to negligence, abuse, accident, misapplication, tampering, alteration; nor due to improper installation, operation, maintenance or storage; nor to other than normal application, use or service, including but not limited to, operational failures caused by corrosion, rust or other foreign materials in the system, or operation at pressures in excess of recommended maximums.

Requests for service under this warranty shall be made by contacting the installing Pentair Water/Wicor dealer as soon as possible after the discovery of any alleged defect. Pentair Water will subsequently take corrective action as promptly as reasonably possible. No requests for service under this warranty will be accepted if received more than 30 days after the term of the warranty.

The warranty on all three phase submersible motors is void if three-leg overload protection of recommended size is not used.

This warranty sets forth Pentair Water's sole obligation and purchaser's exclusive remedy for defective products.

PENTAIR WATER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR CONTINGENT DAMAGES WHATSOEVER.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES. IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE DURATION OF THE APPLICABLE EXPRESS WARRANTIES PROVIDED HEREIN.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Pentair Water, 800 Airport Road, North Aurora, IL 60542



Pentair Water