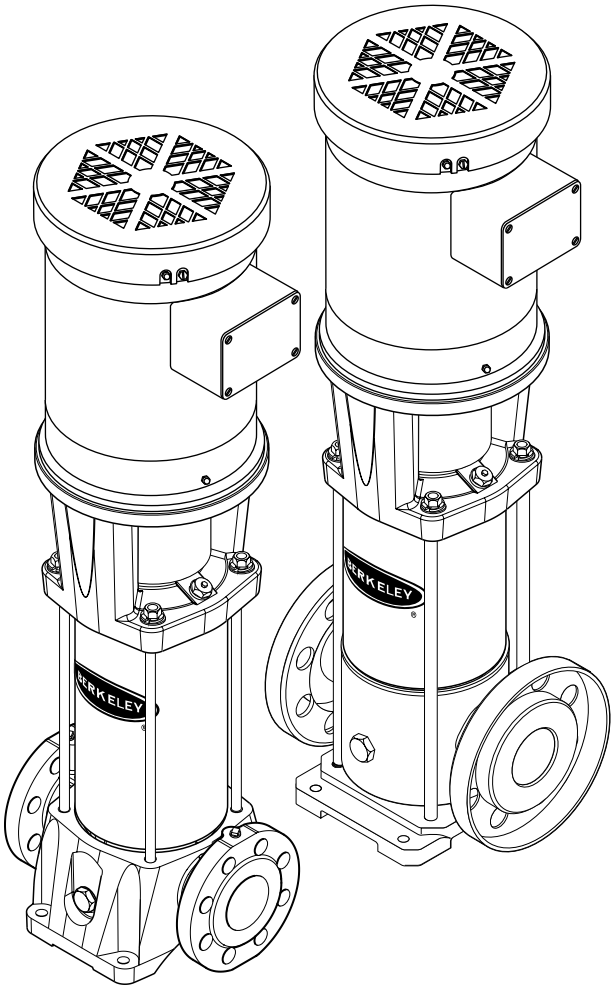


Vertical Multi-stage Pumps - 60 Hz.

BVM - Cast Iron
BVMI - 304 Stainless Steel
BVMX - 316 Stainless Steel

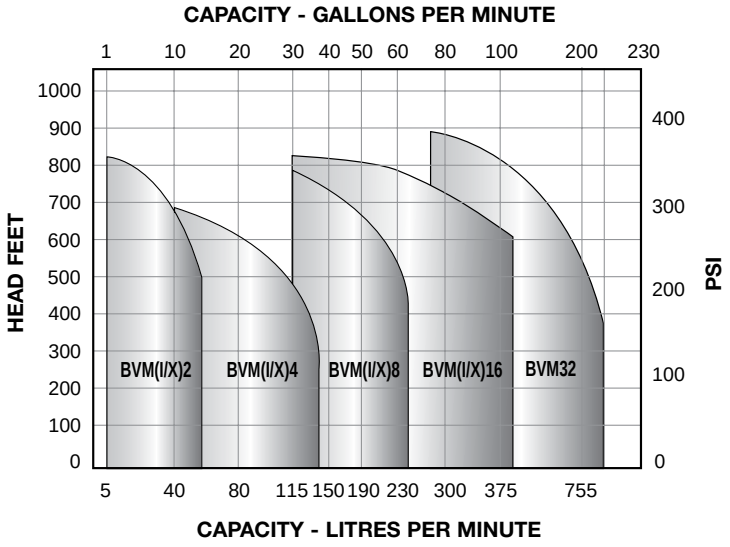
CATALOG – July 2011

Models	Flow Series	HP Range	GPM
BVM/BVMI/BVMX	2	1/2 – 5	1 – 20
BVM/BVMI/BVMX	4	1/2 – 7.5	3 – 40
BVM/BVMI/BVMX	8	3/4 – 15	5 – 65
BVM/BVMI/BVMX	16	5 – 25	8 – 105
BVM	32	3 – 40	15 – 210

TABLE OF CONTENTS

Description	Page
BVM (I/X) 2 Series	*2-8*
BVM (I/X) 4 Series	*9-15*
BVM (I/X) 2 / BVM (I/X) 4 Construction Materials	*16*
BVM (I/X) 8 Series	*17-23*
BVM (I/X) 16 Series	*24-28*
BVM (I/X) 8 / BVM (I/X) 16 Construction Materials	*29*
BVM32 Series	*30-33*
BVM32 Construction Materials	*34*
Bypass Orifice Sizing	*35*
Warranty	*36*

VERTICAL MULTI-STAGE PERFORMANCE



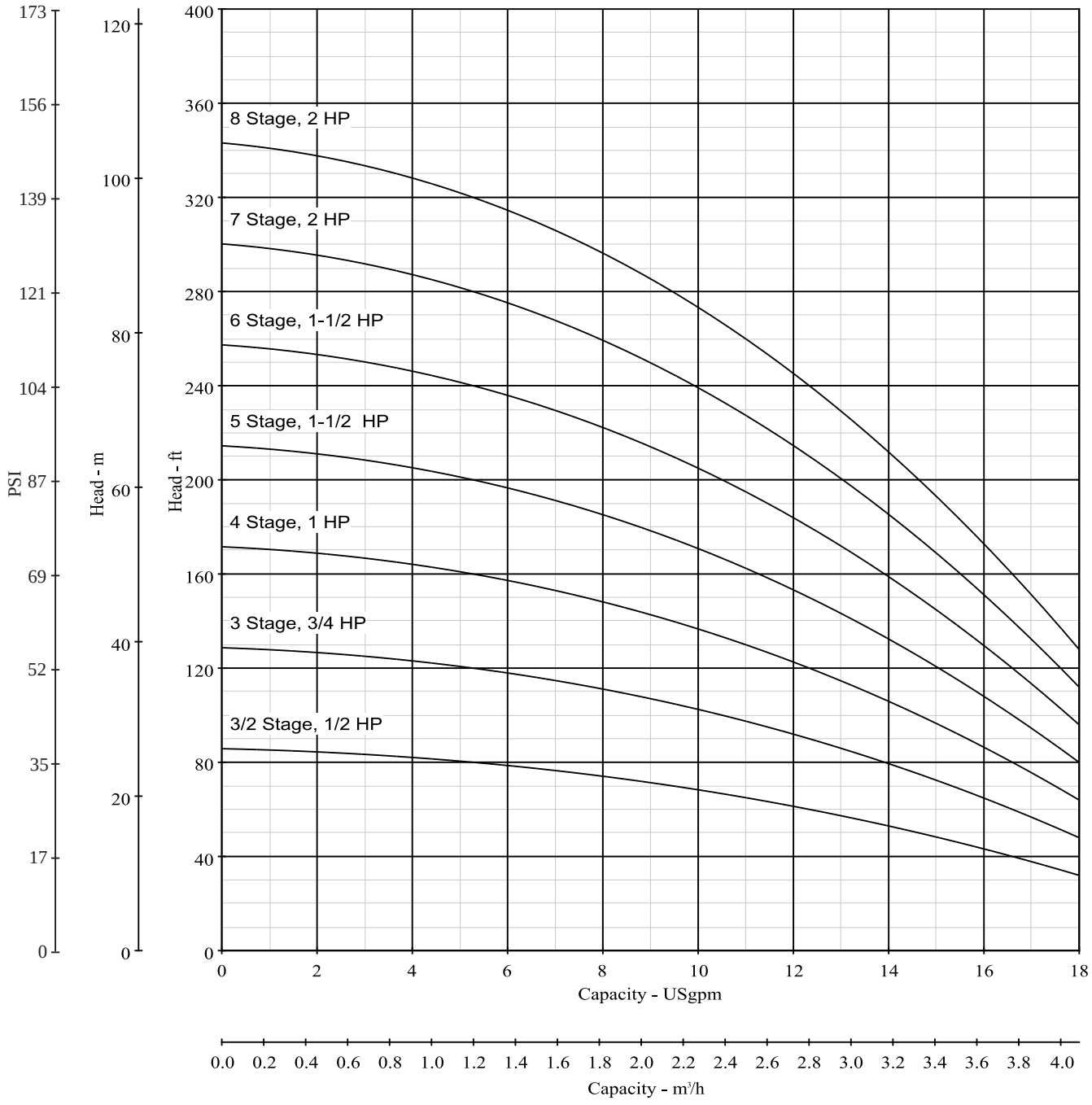
RELAX, IT'S A BERKELEY™

Pentair Water™

BVM (I/X) 2 SERIES

Performance Curves – BVM (I/X) 2 Series

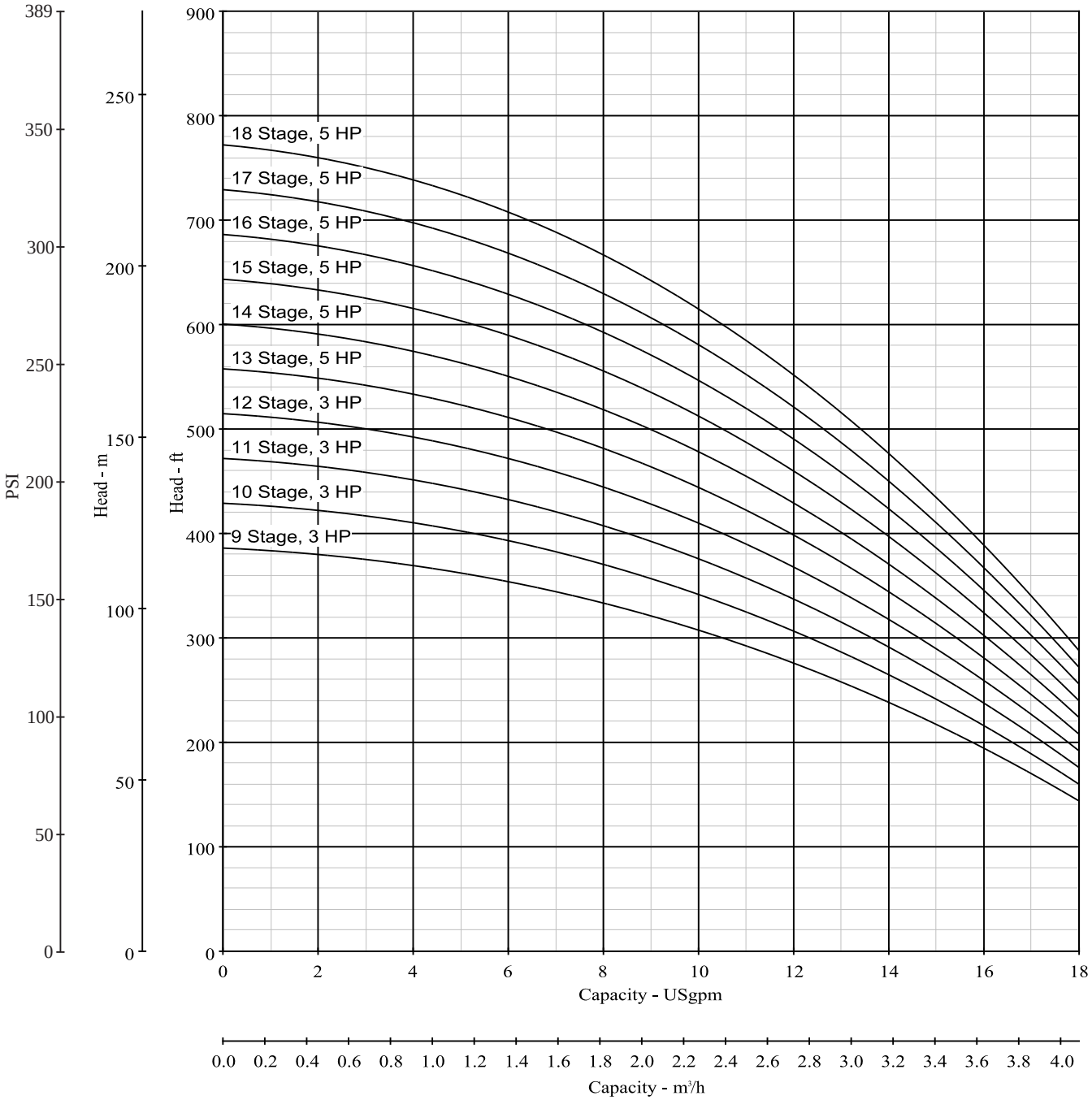
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM (I/X) 2 SERIES

Performance Curves – BVM (I/X) 2 Series

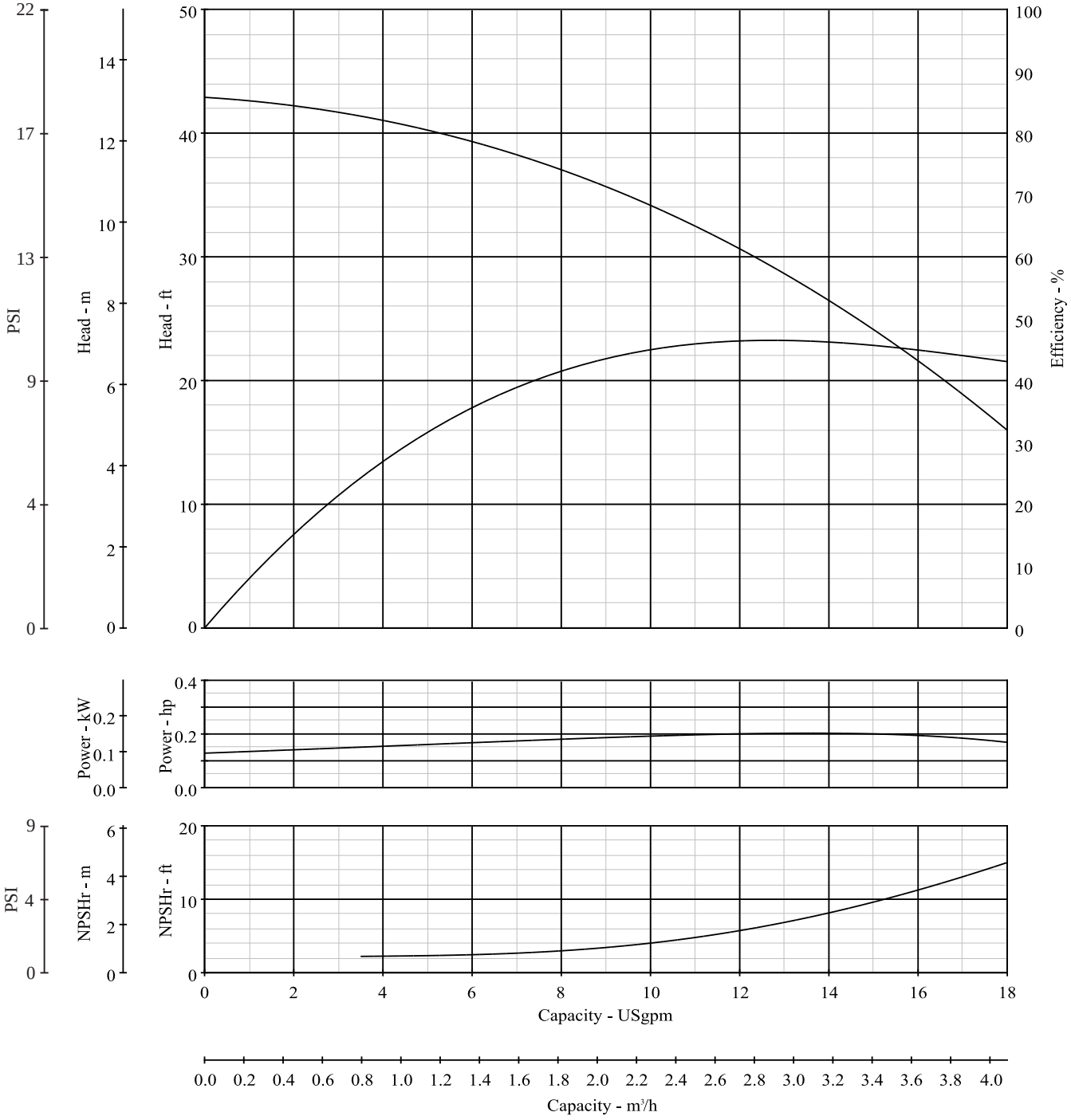
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM (I/X) 2 SERIES

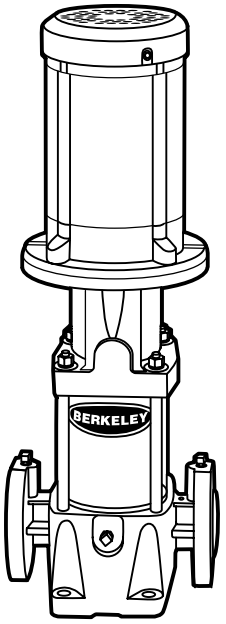
Single Stage Performance Data – BVM (I/X) 2 Series

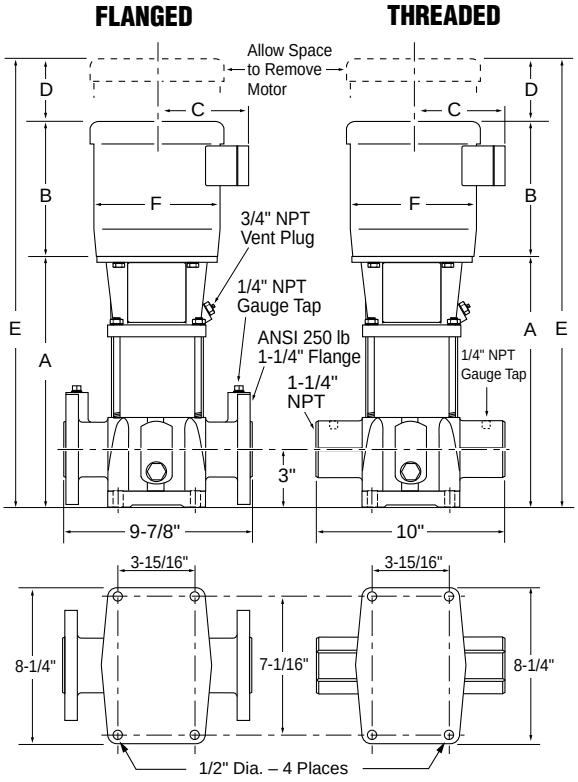
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM2 SERIES

Cast Iron Construction





Technical Information

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 WORKING PRESSURE: 360 PSI

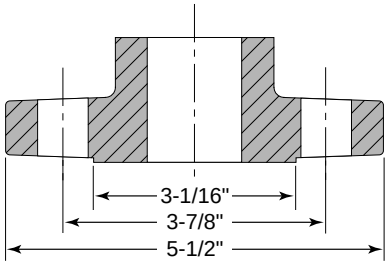
MAXIMUM AMBIENT TEMPERATURE: 104° F

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 – BVM 2 Series

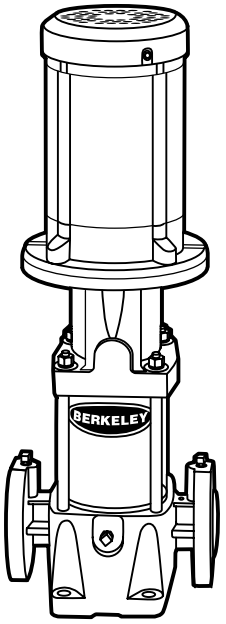
1/2 thru 2 HP

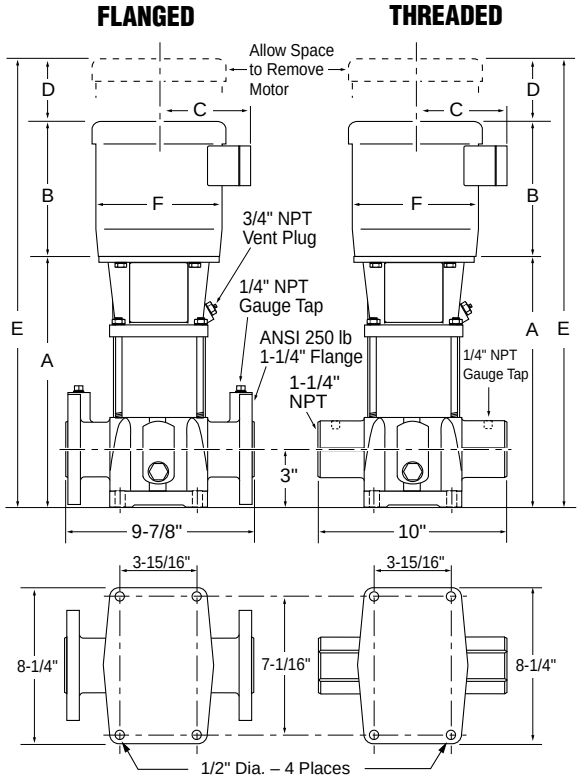
Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM2-30/2	0.5	1.25	1	115/208-230	56C	1-1/4	1-1/4	11-3/8	9-1/4	4-7/8	2	22-5/8	6	80	78
BVM2-30/2	0.5	1.25	3	208-230/460	56C	1-1/4	1-1/4	11-3/8	9-1/4	4-7/8	2	22-5/8	6	77	75
BVM2-30	0.75	1.25	1	115/208-230	56C	1-1/4	1-1/4	11-3/8	9-7/8	4-7/8	2	23-1/4	6	84	86
BVM2-30	0.75	1.25	3	208-230/460	56C	1-1/4	1-1/4	11-3/8	9-1/4	4-7/8	2	22-5/8	6	79	78
BVM2-40	1	1.25	1	115/208-230	56C	1-1/4	1-1/4	12	11-1/8	5-1/4	2	25-1/4	7-1/8	96	89
BVM2-40	1	1.25	3	208-230/460	56C	1-1/4	1-1/4	12	9-1/4	4-7/8	2	23-3/8	6	80	83
BVM2-50	1.5	1.15	1	115/208-230	56C	1-1/4	1-1/4	12-3/4	11-1/8	5-5/8	2	26	7-1/8	101	96
BVM2-50	1.5	1.15	3	208-230/460	56C	1-1/4	1-1/4	12-3/4	10-1/8	5-3/4	2-1/8	25	7-1/4	90	89
BVM2-60	1.5	1.15	1	115/208-230	56C	1-1/4	1-1/4	13-1/2	11-1/8	5-5/8	2	26-5/8	7-1/8	102	97
BVM2-60	1.5	1.15	3	208-230/460	56C	1-1/4	1-1/4	13-1/2	10-1/8	5-3/4	2-1/8	25-3/4	7-1/4	91	90
BVM2-70	2	1.15	1	208-230	56C	1-1/4	1-1/4	14-1/8	12-1/8	5-5/8	2	28-1/4	7-1/8	110	103
BVM2-70	2	1.15	3	208-230/460	56C	1-1/4	1-1/4	14-1/8	11-1/8	5-3/4	2-1/8	27-3/8	7-1/4	100	94
BVM2-80	2	1.15	1	208-230	56C	1-1/4	1-1/4	14-7/8	12-1/8	5-5/8	2	29	7-1/8	111	104
BVM2-80	2	1.15	3	208-230/460	56C	1-1/4	1-1/4	14-7/8	11-1/8	5-3/4	2-1/8	28-1/8	7-1/4	101	95

* Measurements represent the largest number possible for each model using standard efficiency motors.
Weight may vary from published information.

BVM2 SERIES

Cast Iron Construction





Technical Information

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 WORKING PRESSURE: 360 PSI

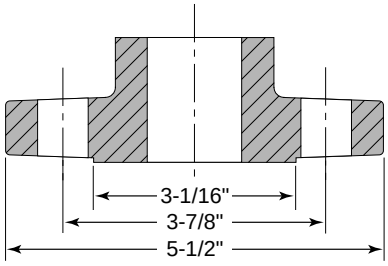
MAXIMUM AMBIENT TEMPERATURE: 104° F

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 – BVM 2 Series

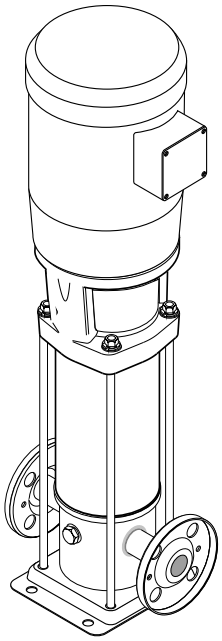
3 thru 5 HP

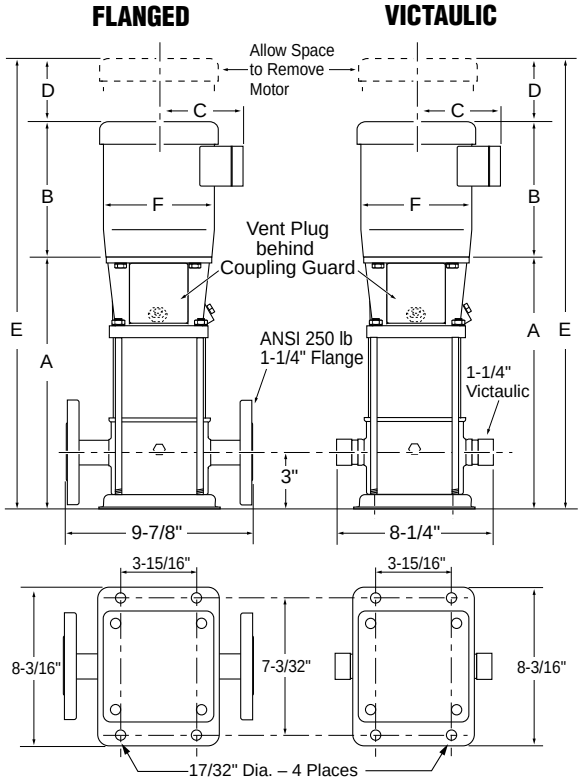
Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM2-90	3	1.15	1	115/208-230	182TC	1-1/4	1-1/4	16	13-5/8	6 7/8	2-3/4	32-3/8	8-1/2	143	134
BVM2-90	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	16	12-1/4	6 7/8	2-7/8	31-1/8	8-1/2	124	124
BVM2-100	3	1.15	1	208-230	182TC	1-1/4	1-1/4	16-5/8	13-5/8	6-7/8	2-3/4	33-1/8	8-1/2	144	135
BVM2-100	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	16-5/8	12-1/4	6-7/8	2-7/8	31-7/8	8-1/2	125	125
BVM2-110	3	1.15	1	115/208-230	182TC	1-1/4	1-1/4	17-3/8	13 5/8	6 7/8	2-3/4	33-3/4	8-1/2	145	136
BVM2-110	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	17-3/8	12-1/4	6 7/8	2-7/8	32-1/2	8-1/2	126	126
BVM2-120	3	1.15	1	208-230	182TC	1-1/4	1-1/4	18-1/8	13-5/8	6-7/8	2-3/4	34-1/2	8-1/2	146	137
BVM2-120	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	18-1/8	12-1/4	6-7/8	2-7/8	33-1/4	8-1/2	127	127
BVM2-130	3	1.15	1	115/208-230	182TC	1-1/4	1-1/4	18-3/4	13-5/8	6 7/8	2-3/4	35-1/4	8-1/2	147	138
BVM2-130	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	18-3/4	12-1/4	6 7/8	2-7/8	34	8-1/2	128	128
BVM2-140	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	19-1/2	15-1/4	8	3-3/8	38-1/8	10-5/8	180	154
BVM2-140	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	19-1/2	13-5/8	6 7/8	2-7/8	36	8-1/2	153	150
BVM2-150	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	20-1/4	15-1/4	8	3-3/8	38-7/8	10-5/8	155	155
BVM2-150	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	20-1/4	13-5/8	6-7/8	2-7/8	36-3/4	8-1/2	154	151
BVM2-160	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	20-7/8	15-1/4	8	3-3/8	39-5/8	10-5/8	182	156
BVM2-160	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	20-7/8	13-5/8	6 7/8	2-7/8	37-1/2	8-1/2	155	152
BVM2-170	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	21-5/8	15-1/4	8	3-3/8	40-1/4	10-5/8	183	157
BVM2-170	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	21-5/8	13-5/8	6 7/8	2-7/8	38-1/8	8-1/2	156	153
BVM2-180	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	22-3/8	15-1/4	8	3-3/8	41	10-5/8	184	158
BVM2-180	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	22-3/8	13-5/8	6-7/8	2-7/8	38-7/8	8-1/2	157	154

* Measurements represent the largest number possible for each model using standard efficiency motors.
Weight may vary from published information.

BVM (I/X) 2 SERIES

304 SS and 316 SS Construction





Technical Information

MINIMUM PUMPING RATES: 1.2 GPM

FLOW RANGE: 1.2 – 20 GPM

MINIMUM SUCTION PIPE SIZES:
1-1/4" Nominal Diameter, Schedule 40 Pipe

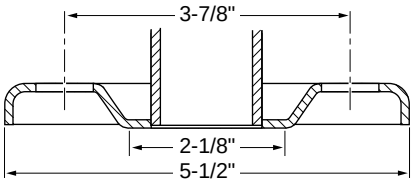
MAXIMUM WORKING PRESSURE: 360 PSI

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 – BVM (I/X) 2 Series†

1/2 thru 2 HP

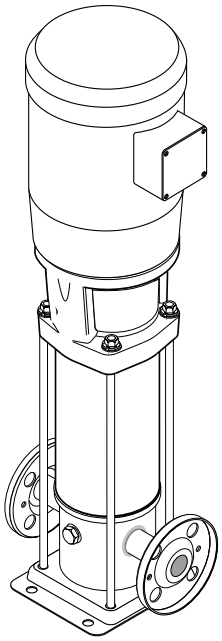
Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM(I/X)2-30/2	0.5	1.25	1	115/208-230	56C	1-1/4	1-1/4	11-3/4	9-1/4	4-7/8	2	23	6	68	66
BVM(I/X)2-30/2	0.5	1.25	3	208-230/460	56C	1-1/4	1-1/4	11-3/4	9-1/4	4-7/8	2	23	6	65	63
BVM(I/X)2-30	0.75	1.25	1	115/208-230	56C	1-1/4	1-1/4	11-3/4	9-7/8	4-7/8	2	23-5/8	6	72	74
BVM(I/X)2-30	0.75	1.25	3	208-230/460	56C	1-1/4	1-1/4	11-3/4	9-7/8	4-7/8	2	23-5/8	6	67	66
BVM(I/X)2-40	1	1.25	1	115/208-230	56C	1-1/4	1-1/4	12-3/8	11-1/8	5-1/4	2	25-5/8	7-1/8	84	77
BVM(I/X)2-40	1	1.25	3	208-230/460	56C	1-1/4	1-1/4	12-3/8	11-1/8	5-1/4	2	25-5/8	7-1/8	68	71
BVM(I/X)2-50	1.5	1.15	1	115/208-230	56C	1-1/4	1-1/4	13-1/8	11-1/8	5-3/4	2-1/8	26-3/8	7-1/4	89	84
BVM(I/X)2-50	1.5	1.15	3	208-230/460	56C	1-1/4	1-1/4	13-1/8	11-1/8	5-3/4	2-1/8	26-3/8	7-1/4	78	77
BVM(I/X)2-60	1.5	1.15	1	115/208-230	56C	1-1/4	1-1/4	13-7/8	11-1/8	5-3/4	2-1/8	27	7-1/7	90	85
BVM(I/X)2-60	1.5	1.15	3	208-230/460	56C	1-1/4	1-1/4	13-7/8	11-1/8	5-3/4	2-1/8	27	7-1/4	79	78
BVM(I/X)2-70	2	1.15	1	208-230	56C	1-1/4	1-1/4	14-1/2	12-1/8	5-3/4	2-1/8	28-5/8	7-1/4	98	91
BVM(I/X)2-70	2	1.15	3	208-230/460	56C	1-1/4	1-1/4	14-1/2	12-1/8	5-3/4	2-1/8	28-5/8	7-1/4	88	82
BVM(I/X)2-80	2	1.15	1	208-230	56C	1-1/4	1-1/4	15-1/4	12-1/8	5-3/4	2-1/8	29-3/8	7-1/4	99	92
BVM(I/X)2-80	2	1.15	3	208-230/460	56C	1-1/4	1-1/4	15-1/4	12-1/8	5-3/4	2-1/8	29-3/8	7-1/4	89	83

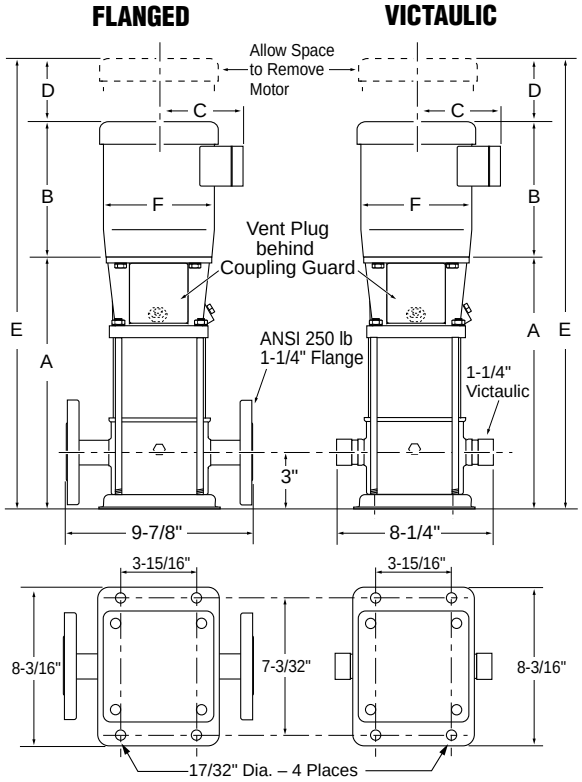
* Measurements represent the largest number possible for each model using standard efficiency motors.

† Includes BVMI models constructed of 304 Stainless Steel and BVMX models constructed of 316 Stainless Steel.

BVM (I/X) 2 SERIES

304 SS and 316 SS Construction





Technical Information

MINIMUM PUMPING RATES: 1.2 GPM

FLOW RANGE: 1.2 – 20 GPM

MINIMUM SUCTION PIPE SIZES:
1-1/4" Nominal Diameter, Schedule 40 Pipe

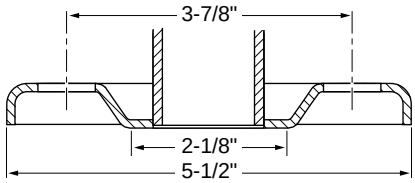
MAXIMUM WORKING PRESSURE: 360 PSI

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 – BVM (I/X) 2 Series†

3 thru 5 HP

Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM(I/X)2-90	3	1.15	1	115/208-230	182TC	1-1/4	1-1/4	16-3/8	12-1/4	6-7/8	2-7/8	31-1/2	8-1/2	131	122
BVM(I/X)2-90	3	1.15	3	230/460	182TC	1-1/4	1-1/4	16-3/8	10-1/4	6-7/8	2-7/8	29-1/2	8-1/2	112	112
BVM(I/X)2-100	3	1.15	1	208-230	182TC	1-1/4	1-1/4	17	13-5/8	2-5/8	2-7/8	33-5/8	8-1/2	132	123
BVM(I/X)2-100	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	17	13-5/8	2-5/8	2-7/8	33-5/8	8-1/2	113	113
BVM(I/X)2-110	3	1.15	1	115/208-230	182TC	1-1/4	1-1/4	17-3/4	12-1/4	6-7/8	2-3/4	32-7/8	8-1/2	133	124
BVM(I/X)2-110	3	1.15	3	230/460	182TC	1-1/4	1-1/4	17-3/4	10-1/4	6-7/8	2-7/8	30-7/8	8-1/2	114	114
BVM(I/X)2-120	3	1.15	1	208-230	182TC	1-1/4	1-1/4	18-1/2	13-5/8	6-7/8	2-7/8	35	8-1/2	134	125
BVM(I/X)2-120	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	18-1/2	13-5/8	6-7/8	2-7/8	35	8-1/2	115	115
BVM(I/X)2-130	3	1.15	1	115/208-230	182TC	1-1/4	1-1/4	19-1/8	12-1/4	6-7/8	2-3/4	34-1/4	8-1/2	135	126
BVM(I/X)2-130	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	19 -1/8	10-1/4	6-7/8	2-7/8	32-1/4	8-1/2	116	116
BVM(I/X)2-140	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	19-7/8	15-1/4	8	3-3/8	38-1/2	10-5/8	168	142
BVM(I/X)2-140	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	19 -7/8	13-5/8	6-7/8	2-7/8	36-3/8	8-1/2	141	138
BVM(I/X)2-150	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	20-5/8	15-1/4	8	3-3/8	39-1/4	10-5/8	169	143
BVM(I/X)2-150	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	20-5/8	15-1/4	8	3-3/8	39-1/4	10-5/8	142	139
BVM(I/X)2-160	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	21-1/4	15-1/4	8	3-3/8	40	10-5/8	170	144
BVM(I/X)2-160	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	21-1/4	13-5/8	6-7/8	2-7/8	37-7/8	8-1/2	143	140
BVM(I/X)2-170	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	22	15-1/4	8	3-3/8	40-5/8	10-5/8	171	145
BVM(I/X)2-170	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	22	13-5/8	6-7/8	2-7/8	38-5/8	8-1/2	144	141
BVM(I/X)2-180	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	22-3/4	15-1/4	8	3-3/8	41-3/8	10-5/8	172	146
BVM(I/X)2-180	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	22-3/4	15-1/4	8	3-3/8	41-3/8	10-5/8	145	142

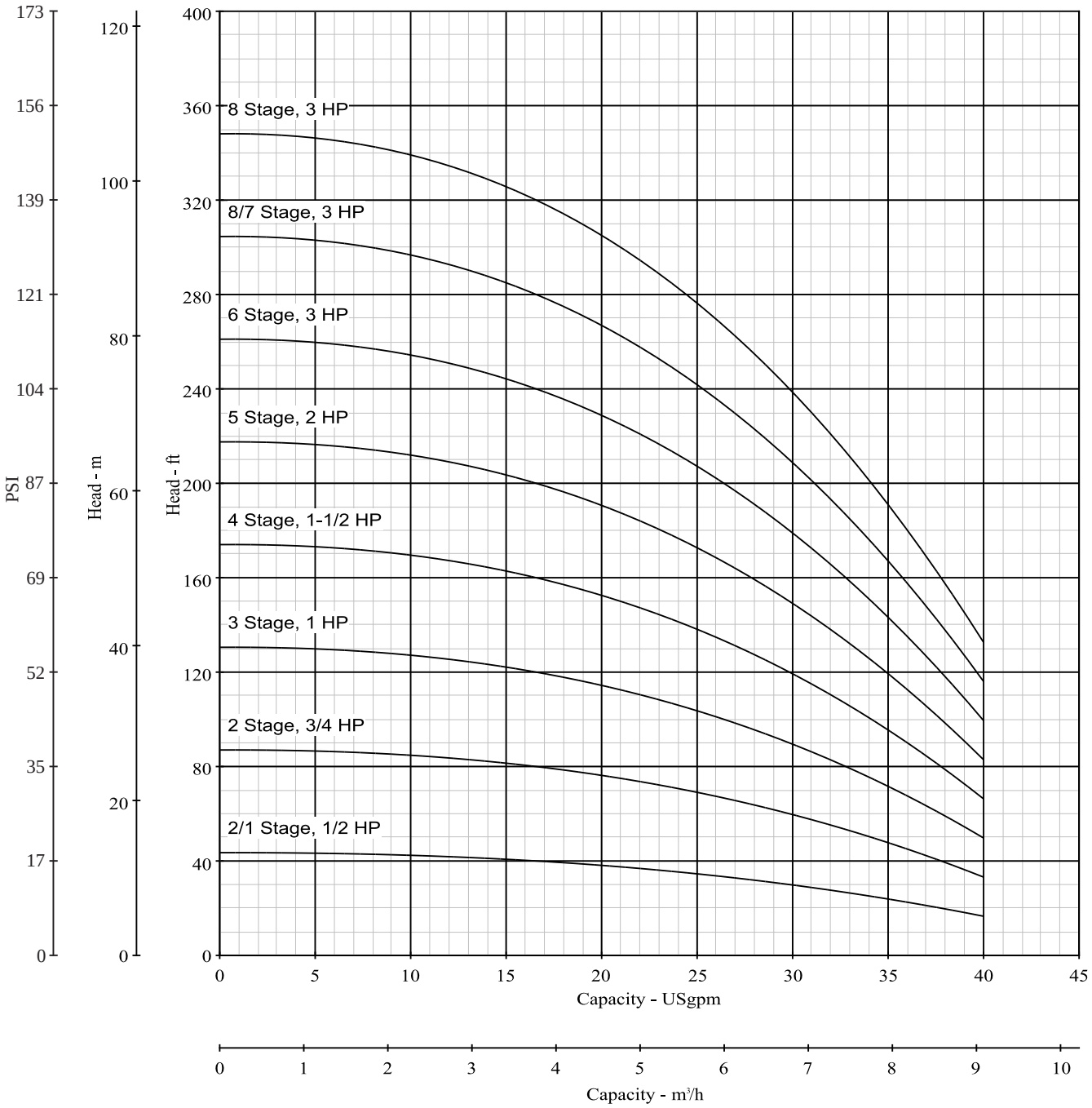
* Measurements represent the largest number possible for each model using standard efficiency motors.

† Includes BVMI models constructed of 304 Stainless Steel and BVMX models constructed of 316 Stainless Steel.

BVM (I/X) 4 SERIES

Performance Curves – BVM (I/X) 4 Series

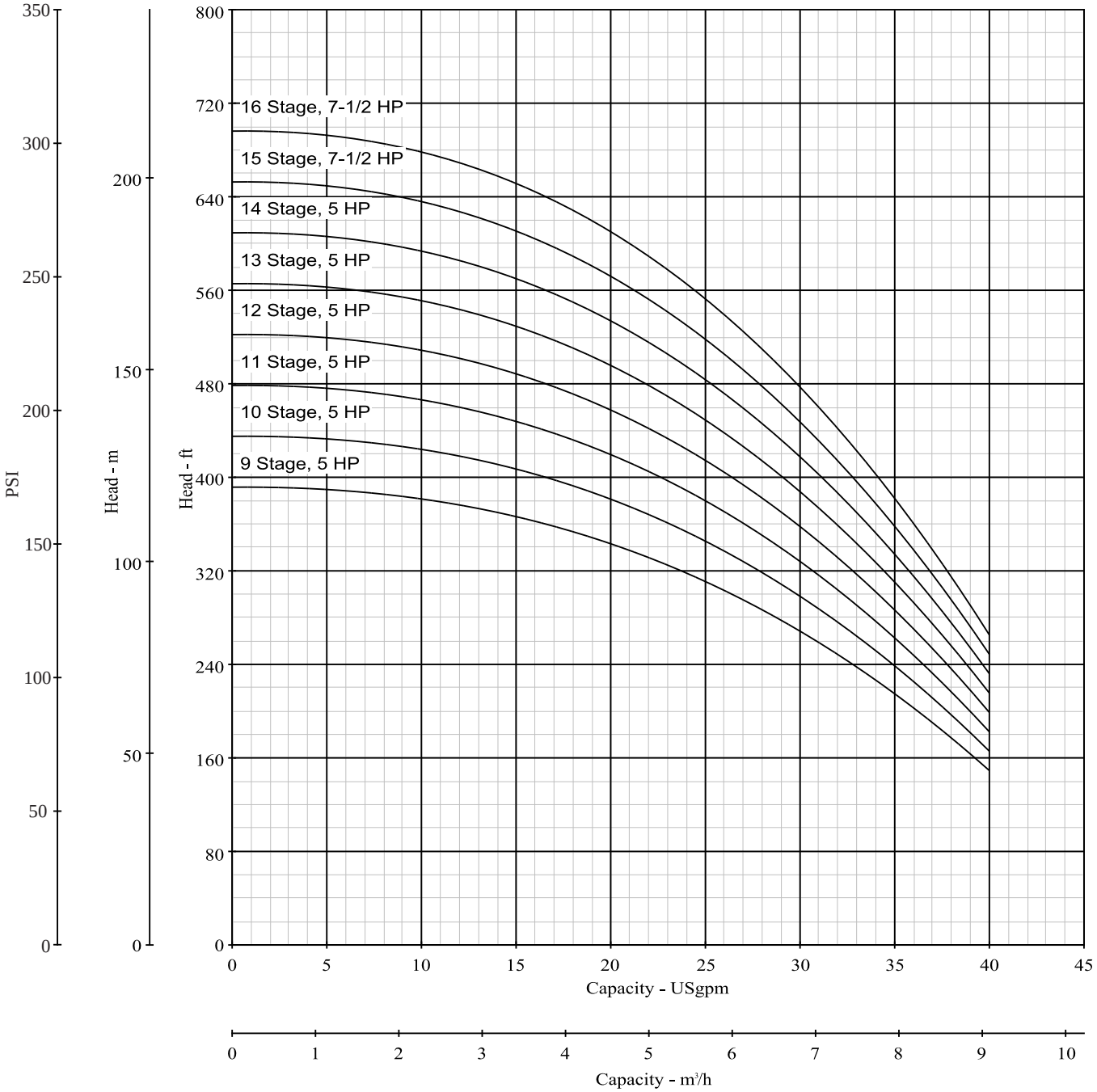
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM (I/X) 4 SERIES

Performance Curves – BVM (I/X) 4 Series

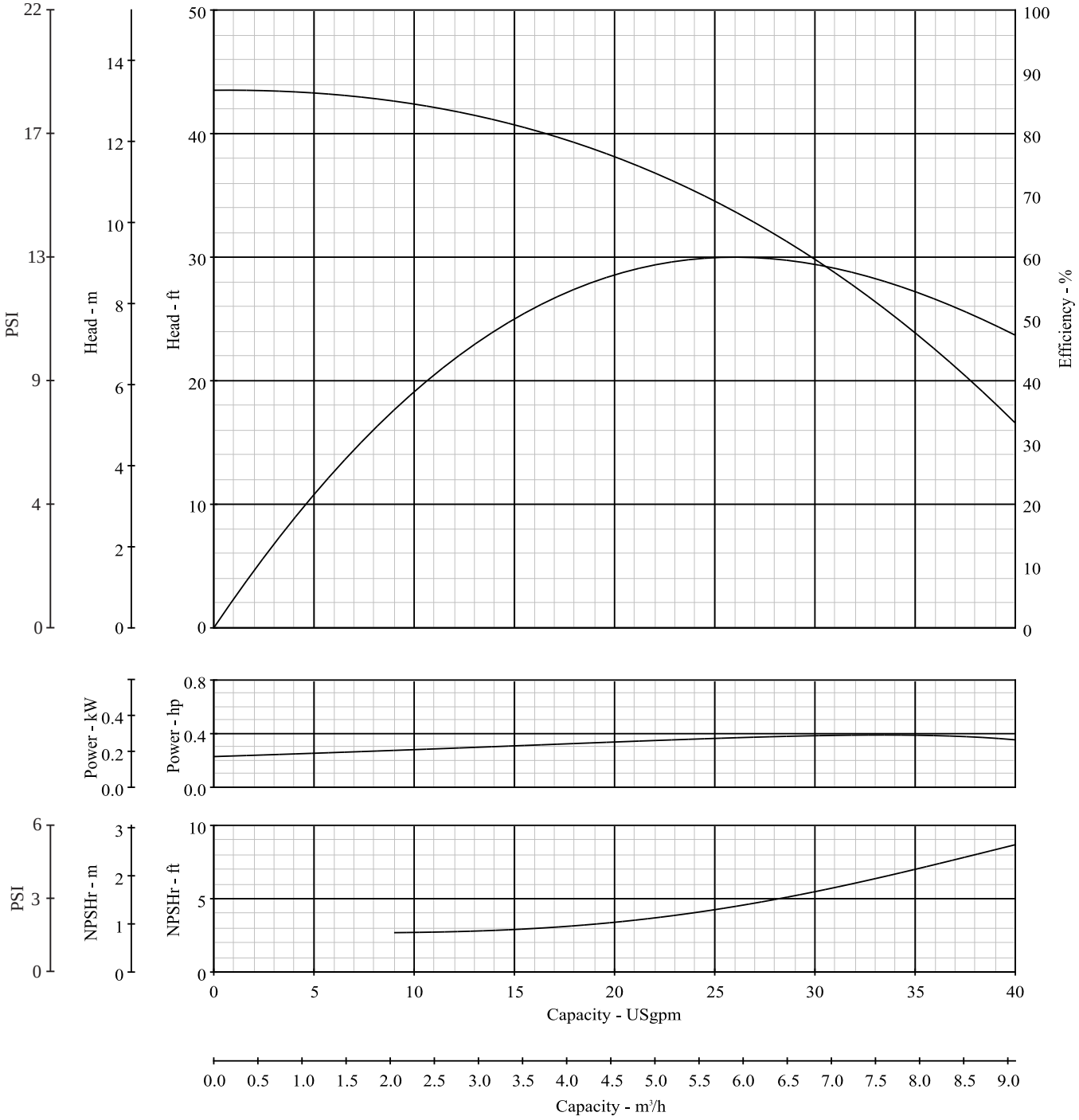
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM (I/X) 4 SERIES

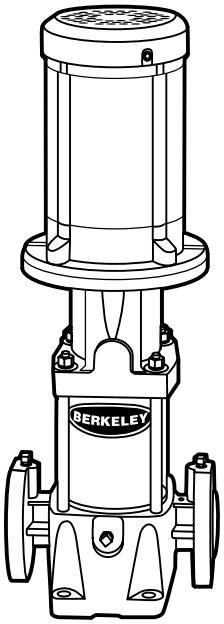
Single Stage Performance Data – BVM (I/X) 4 Series

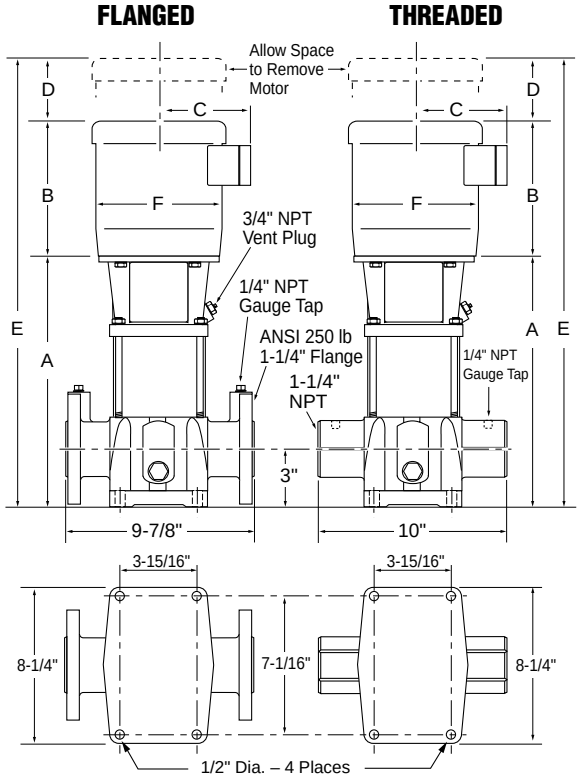
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM4 SERIES

Cast Iron Construction





Technical Information

MINIMUM PUMPING RATES: 3 GPM

FLOW RANGE: 3 – 40 GPM

MINIMUM SUCTION PIPE SIZES:
1-1/4" Nominal Diameter, Schedule 40 Pipe

MAXIMUM WORKING PRESSURE: 360 PSI

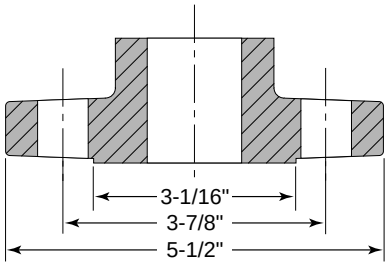
MAXIMUM AMBIENT TEMPERATURE: 104° F

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 – BVM 4 Series

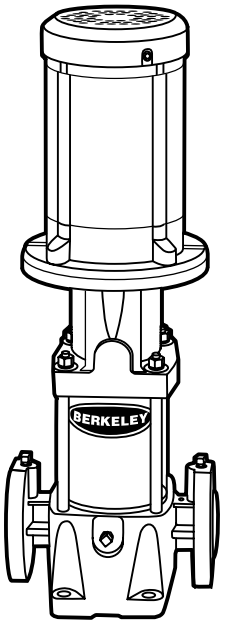
1/2 thru 2 HP

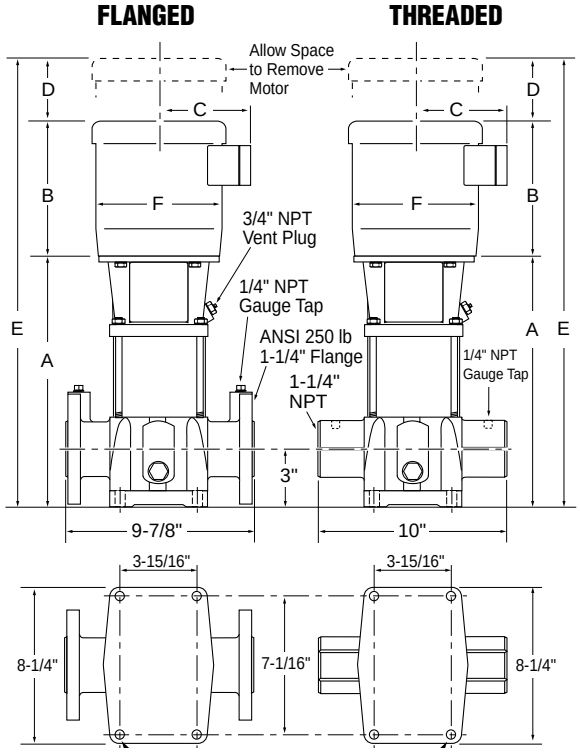
Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM4-20/1	0.5	1.25	1	115/208-230	56C	1-1/4	1-1/4	11-3/8	9-1/4	4-7/8	2	22-5/8	6	79	77
BVM4-20/1	0.5	1.25	3	208-230/460	56C	1-1/4	1-1/4	11-3/8	9-1/4	4-7/8	2	22-5/8	6	76	74
BVM4-20	0.75	1.25	1	115/208-230	56C	1-1/4	1-1/4	11-3/8	9-7/8	4-7/8	2	23-2/8	6	83	85
BVM4-20	0.75	1.25	3	208-230/460	56C	1-1/4	1-1/4	11-3/8	9-1/4	4-7/8	2	22-5/8	6	78	77
BVM4-30	1.5	1.25	1	115/208-230	56C	1-1/4	1-1/4	12-3/8	11-1/8	5-1/4	2	25-5/8	7-1/8	94	87
BVM4-30	1.5	1.15	3	208-230/460	56C	1-1/4	1-1/4	12-3/8	9-1/4	4-7/8	2	23-3/4	6	78	81
BVM4-40	1.5	1.25	1	115/208-230	56C	1-1/4	1-1/4	13-1/2	11-1/8	5-5/8	2	26-5/8	7-1/8	101	96
BVM4-40	1.5	1.15	3	208-230/460	56C	1-1/4	1-1/4	13-1/2	10-1/8	5-3/4	2-1/8	25-3/4	7-1/4	90	89
BVM4-50	2	1.15	1	208-230	56C	1-1/4	1-1/4	14-1/2	12	5-5/8	2	28-5/8	7-1/8	108	101
BVM4-50	2	1.15	3	208-230/460	56C	1-1/4	1-1/4	14-1/2	11-1/8	5-3/4	2-1/8	27-3/4	7-1/4	98	92

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

BVM4 SERIES

Cast Iron Construction





Technical Information

MINIMUM PUMPING RATES: 3 GPM

FLOW RANGE: 3 – 40 GPM

MINIMUM SUCTION PIPE SIZES:
1-1/4" Nominal Diameter, Schedule 40 Pipe

MAXIMUM WORKING PRESSURE: 360 PSI

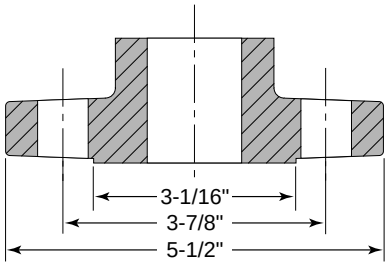
MAXIMUM AMBIENT TEMPERATURE: 104° F

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 – BVM 4 Series

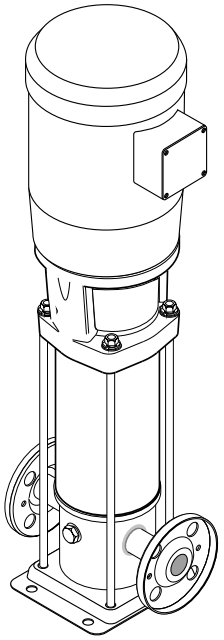
3 thru 7-1/2 HP

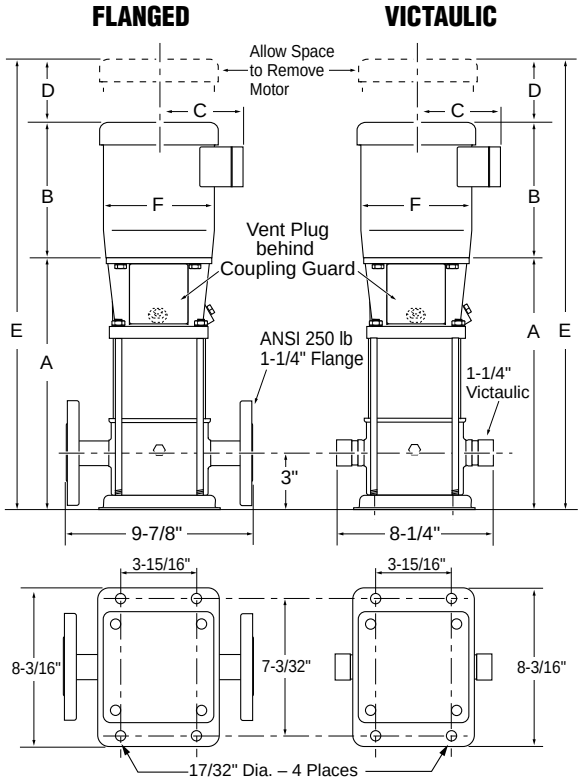
Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM4-60	3	1.15	1	208-230	182TC	1-1/4	1-1/4	16	13-5/8	6-7/8	2-3/4	32-3/8	8-1/2	141	132
BVM4-60	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	16	12-1/4	6-7/8	2-7/8	31-1/8	8-1/2	122	122
BVM4-80/7	3	1.15	1	208-230	182TC	1-1/4	1-1/4	18-1/8	13-5/8	6-7/8	2-3/4	34-1/2	8-1/2	143	134
BVM4-80/7	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	18-1/8	12-1/4	6-7/8	2-7/8	33-2/8	8-1/2	124	124
BVM4-80	3	1.15	1	208-230	182TC	1-1/4	1-1/4	18-1/8	13-5/8	6-7/8	2-3/4	34-1/2	8-1/2	146	137
BVM4-80	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	18-1/8	12-1/4	6-7/8	2-7/8	33-1/4	8-1/2	127	127
BVM4-90	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	19-1/8	15-1/4	8	3-3/8	37-3/4	10-5/8	181	155
BVM4-90	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	19-1/8	13-5/8	6-7/8	2-7/8	35-3/4	10-5/8	154	151
BVM4-100	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	20-1/4	15-1/4	8	3-3/8	38-7/8	10-5/8	183	157
BVM4-100	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	20-1/4	13-5/8	6-7/8	2-7/8	36-3/4	8-1/2	156	153
BVM4-110	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	21-1/4	15-1/4	8	3-3/8	39-7/8	10-5/8	184	158
BVM4-110	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	21-1/4	13-5/8	6-7/8	2-7/8	37-7/8	10-5/8	157	154
BVM4-120	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	22-3/8	15-1/4	8	3-3/8	41	10-5/8	186	160
BVM4-120	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	22-3/8	13-5/8	6-7/8	2-7/8	38-7/8	8-1/2	159	156
BVM4-130	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	23-3/8	15-1/4	8	3-3/8	42	10-5/8	187	161
BVM4-130	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	23-3/8	13-5/8	6-7/8	2-7/8	40	10-5/8	160	157
BVM4-140	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	24-1/2	15-1/4	8	3-3/8	43-1/8	10-5/8	189	163
BVM4-140	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	24-1/2	13-5/8	6-7/8	2-7/8	41	8-1/2	162	159
BVM4-150	7.5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	25-1/2	15-1/4	8	3-3/8	44-1/8	10-5/8	171	198
BVM4-150	7.5	1.15	3	208-230/460	213TCZ	1-1/4	1-1/4	25-1/2	12	7-7/8	3-3/8	41	10-5/8	189	178
BVM4-160	7.5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	26-5/8	15-1/4	8	3-3/8	45-1/4	10-5/8	172	199
BVM4-160	7.5	1.15	3	208-230/460	213TCZ	1-1/4	1-1/4	26-5/8	15-1/4	7-7/8	3-3/8	45-1/4	10-3/8	190	179

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

BVM (I/X) 4 SERIES

304 SS and 316 SS Construction





Technical Information

MINIMUM PUMPING RATES: 3 GPM

FLOW RANGE: 3 – 40 GPM

MINIMUM SUCTION PIPE SIZES:
1-1/4" Nominal Diameter, Schedule 40 Pipe

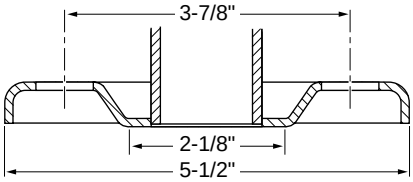
MAXIMUM WORKING PRESSURE: 360 PSI

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 – BVM (I/X) 4 Series†

1/2 thru 2 HP

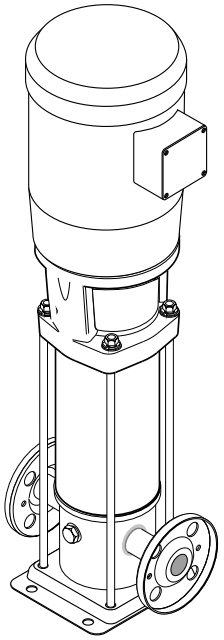
Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM(I/X)4-20/1	0.5	1.25	1	115/208-230	56C	1-1/4	1-1/4	11-3/4	9-1/4	4-7/8	2	23	6	61	59
BVM(I/X)4-20/1	0.5	1.25	3	208-230/460	56C	1-1/4	1-1/4	11-3/4	9-1/4	4-7/8	2	23	6	58	56
BVM(I/X)4-20	0.75	1.25	1	115/208-230	56C	1-1/4	1-1/4	11-3/4	9-7/8	4-7/8	2	23-5/8	6	69	71
BVM(I/X)4-20	0.75	1.25	3	208-230/460	56C	1-1/4	1-1/4	11-3/4	9-7/8	4-7/8	2	23-5/8	6	64	63
BVM(I/X)4-30	1.5	1.25	1	115/208-230	56C	1-1/4	1-1/4	12-3/4	11-1/8	5-1/4	2	26	7-1/8	85	78
BVM(I/X)4-30	1.5	1.15	3	208-230/460	56C	1-1/4	1-1/4	12-3/4	11-1/8	5-1/4	2	26	7-1/8	69	72
BVM(I/X)4-40	1.5	1.25	1	115/208-230	56C	1-1/4	1-1/4	13-7/8	11-1/8	5-3/4	2-1/8	27	7-1/4	92	87
BVM(I/X)4-40	1.5	1.15	3	208-230/460	56C	1-1/4	1-1/4	13-7/8	11-1/8	5-3/4	2-1/8	27	7-1/4	81	80
BVM(I/X)4-50	2	1.15	1	208-230	56C	1-1/4	1-1/4	14-7/8	12	5-3/4	2-1/8	29	7-1/4	99	92
BVM(I/X)4-50	2	1.15	3	208-230/460	56C	1-1/4	1-1/4	14-7/8	12	5-3/4	2-1/8	29	7-1/4	89	83

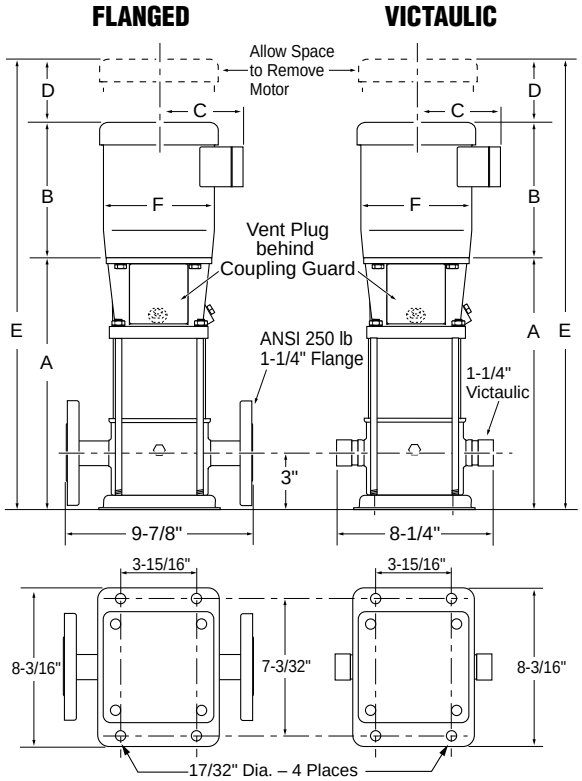
* Measurements represent the largest number possible for each model using standard efficiency motors.

† Includes BVMI models constructed of 304 Stainless Steel and BVMX models constructed of 316 Stainless Steel.

BVM (I/X) 4 SERIES

304 SS and 316 SS Construction





Technical Information

MINIMUM PUMPING RATES: 3 GPM

FLOW RANGE: 3 – 40 GPM

MINIMUM SUCTION PIPE SIZES:
1-1/4" Nominal Diameter, Schedule 40 Pipe

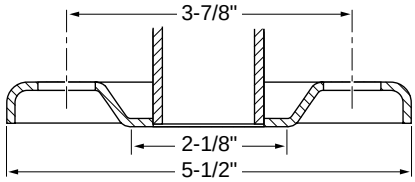
MAXIMUM WORKING PRESSURE: 360 PSI

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 – BVM (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*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM(I/X)4-60	3	1.15	1	208-230	182TC	1-1/4	1-1/4	16 -3/8	13-5/8	6-7/8	2-7/8	32-7/8	8-1/2	132	123
BVM(I/X)4-60	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	16-3/8	13-5/8	6-7/8	2-7/8	32-7/8	8-1/2	113	113
BVM(I/X)4-80/7	3	1.15	1	208-230	182TC	1-1/4	1-1/4	18-1/2	13-5/8	6-7/8	2-7/8	35	8-1/2	134	125
BVM(I/X)4-80/7	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	18-1/2	13-5/8	6-7/8	2-7/8	35	8-1/2	115	115
BVM(I/X)4-80	3	1.15	1	208-230	182TC	1-1/4	1-1/4	18-1/2	13-5/8	6-7/8	2-7/8	35	8-1/2	137	128
BVM(I/X)4-80	3	1.15	3	208-230/460	182TC	1-1/4	1-1/4	18-1/2	13-5/8	6-7/8	2-7/8	35	8-1/2	118	118
BVM4(I/X)-90	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	19-1/2	15-1/4	8	3-3/8	38-1/8	10-5/8	172	146
BVM4(I/X)-90	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	19-1/2	13-5/8	6-7/8	2-7/8	36-1/8	10-5/8	145	142
BVM(I/X)4-100	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	20-5/8	15-1/4	8	3-3/8	39-1/4	10-5/8	174	148
BVM(I/X)4-100	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	20-5/8	15-1/4	8	3-3/8	39-1/4	10-5/8	147	144
BVM4(I/X)-110	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	21-5/8	15-1/4	8	3-3/8	40-1/4	10-5/8	175	149
BVM4(I/X)-110	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	21-5/8	13-5/8	6-7/8	2-7/8	38-1/4	10-5/8	148	145
BVM(I/X)4-120	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	22-3/4	15-1/4	8	3-3/8	41-3/8	10-5/8	177	151
BVM(I/X)4-120	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	22-3/4	15-1/4	8	3-3/8	41-3/8	10-5/8	150	147
BVM4(I/X)-130	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	23-3/4	15-1/4	8	3-3/8	42-3/8	10-5/8	178	152
BVM4(I/X)-130	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	23-3/4	13-5/8	6-7/8	2-7/8	40-3/8	10-5/8	151	148
BVM(I/X)4-140	5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	24-7/8	15-1/4	8	3-3/8	43-1/2	10-5/8	180	154
BVM(I/X)4-140	5	1.15	3	208-230/460	184TC	1-1/4	1-1/4	24-7/8	15-1/4	8	3-3/8	43-1/2	10-5/8	153	150
BVM4(I/X)-150	7.5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	25-7/8	15-1/4	8	3-3/8	44-1/2	10-5/8	162	189
BVM4(I/X)-150	7.5	1.15	3	208-230/460	213TCZ	1-1/4	1-1/4	25-7/8	12	7-7/8	3-3/8	41-3/8	10-5/8	180	169
BVM(I/X)4-160	7.5	1.15	1	208-230	213TCZ	1-1/4	1-1/4	27	15-1/4	8	3-3/8	45-3/8	10-5/8	163	190
BVM(I/X)4-160	7.5	1.15	3	208-230/460	213TCZ	1-1/4	1-1/4	27	15-1/4	8	3-3/8	45-3/8	10-5/8	181	170

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

† Includes BVMI models constructed of 304 Stainless Steel and BVMX models constructed of 316 Stainless Steel.

BVM (I/X) 2 & 4 SERIES

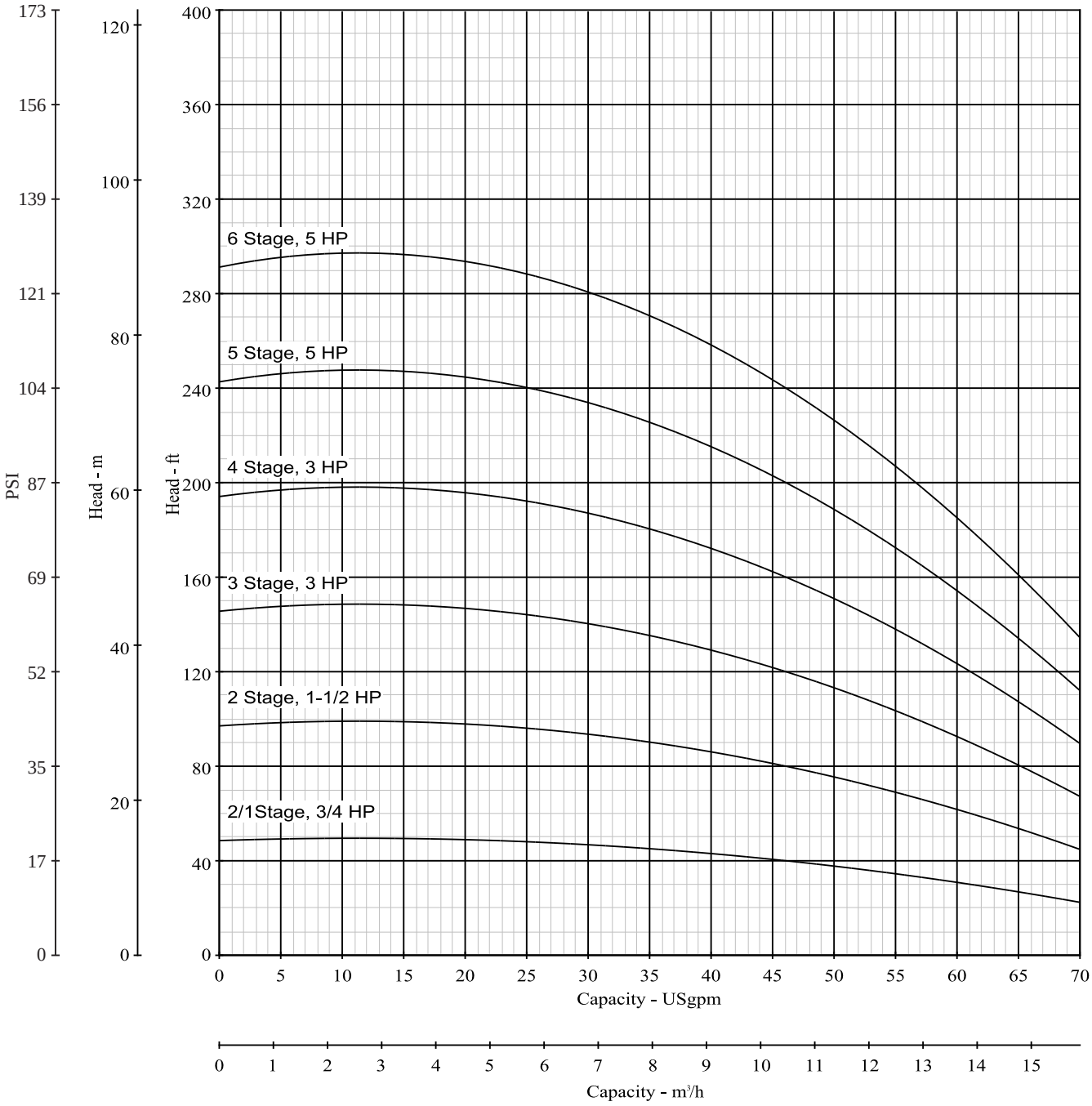
Construction Materials

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	Class 30 Cast Iron	304 SS	316 SS	
Motor bracket	Class 30 Cast Iron	Class 30 CI or 316 SS	Class 30 CI or 316 SS	
Motor Couplings	Class 30 Cast Iron	Class 30 Cast Iron	Class 30 Cast Iron	
Intermediate Chamber 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
Wear Rings	Teflon	Teflon	Teflon	
Sleeve O-Rings	EPDM	EPDM	EPDM	Viton or Buna
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	Carbon Graphite	Carbon Graphite	Carbon Graphite	
• Rotating Face	Tungsten Carbide	Tungsten Carbide	Tungsten Carbide	
• O-Rings	EPDM	EPDM	EPDM	Viton or Buna
• Upper and Lower Drivers	AISI 316 SS	AISI 316 SS	AISI 316 SS	
• Spring	AISI 316 SS	AISI 316 SS	AISI 316 SS	

BVM (I/X) 8 SERIES

Performance Curves – BVM (IX) 8 Series

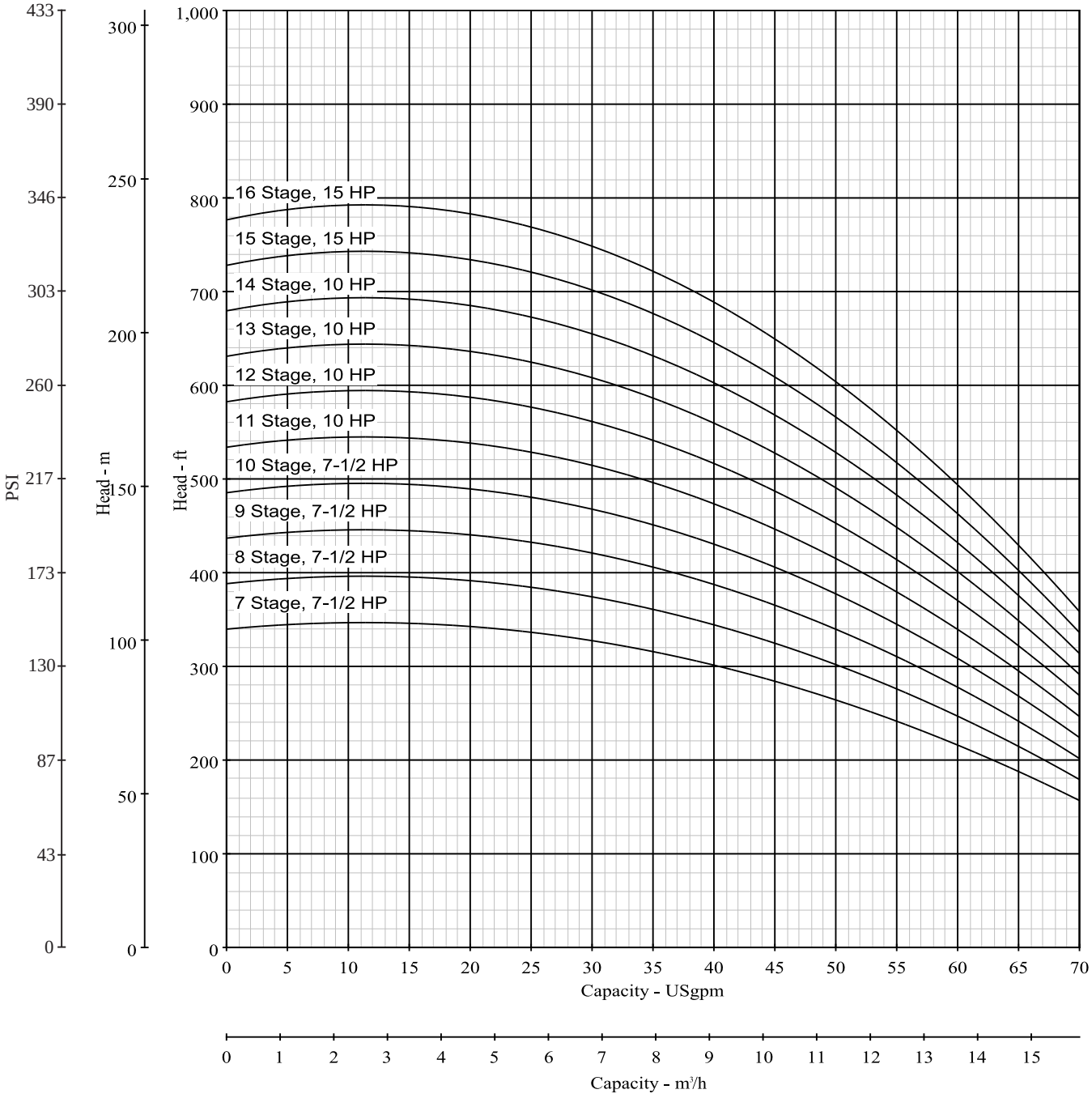
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM (I/X) 8 SERIES

Performance Curves – BVM (I/X) 8 Series

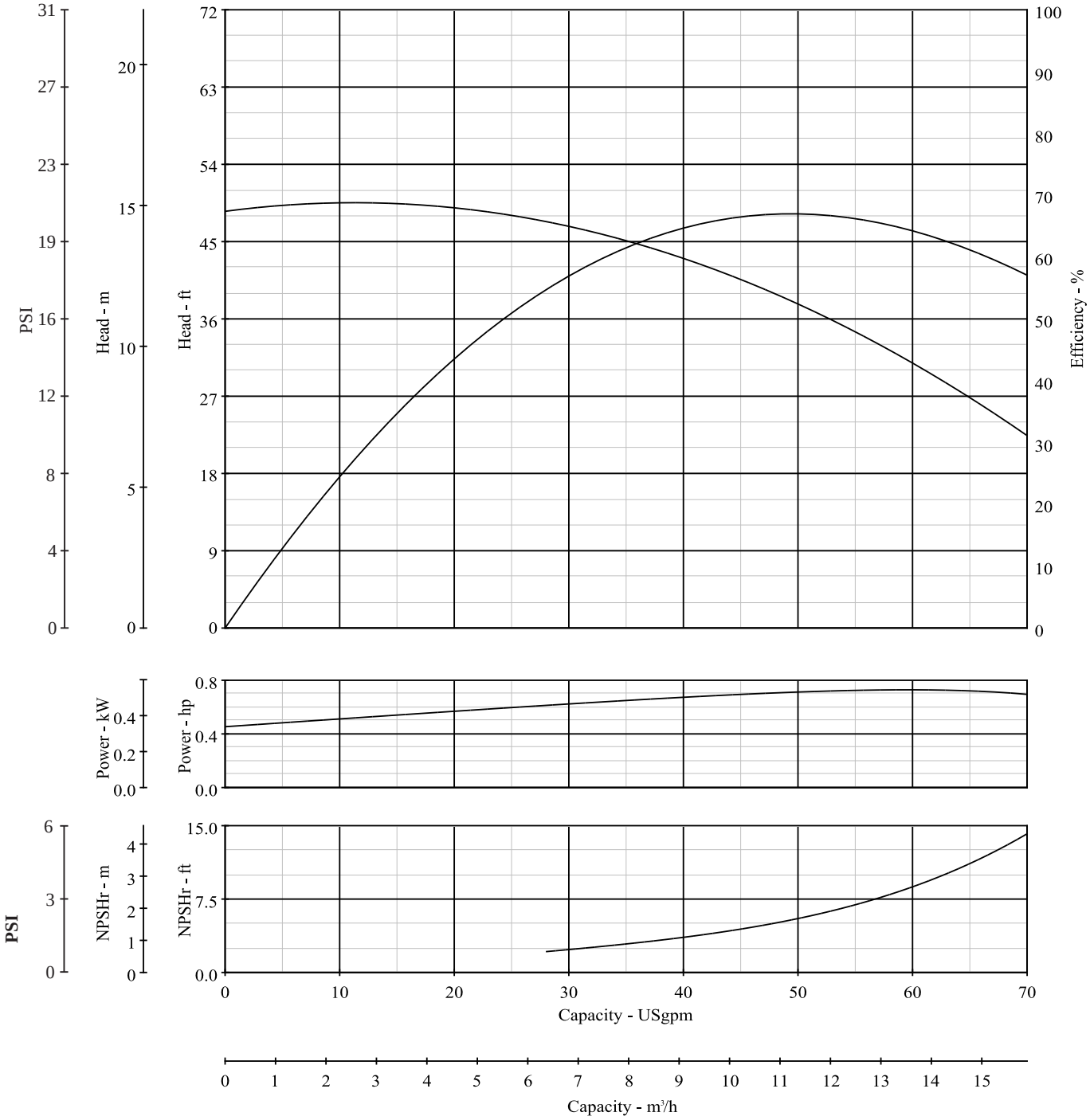
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM (I/X) 8 SERIES

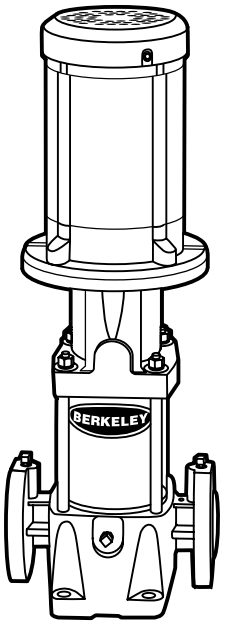
Single Stage Performance Data – BVM (I/X) 8 Series

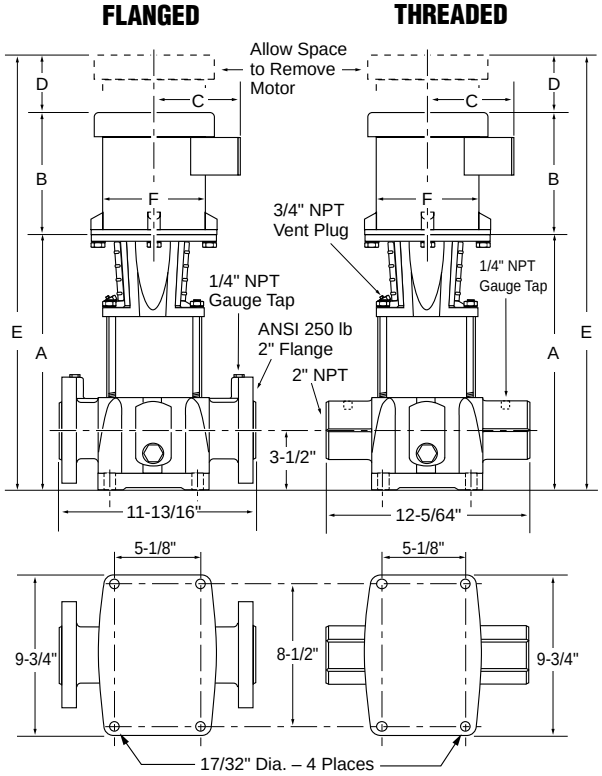
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM8 SERIES

Cast Iron Construction





Technical Information

MINIMUM PUMPING RATES: 5.3 GPM

FLOW RANGE: 5.3 – 65 GPM

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

MAXIMUM WORKING PRESSURE: 360 PSI

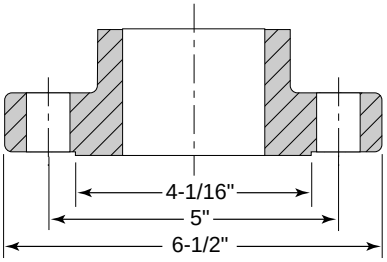
MAXIMUM AMBIENT TEMPERATURE: 104° F

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 – BVM 8 Series

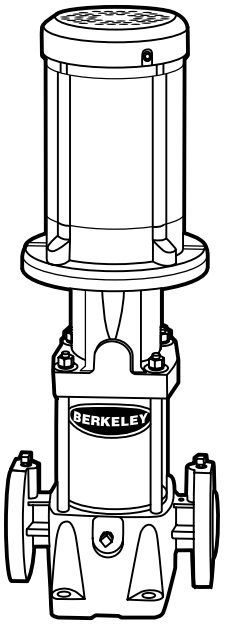
3/4 thru 5 HP

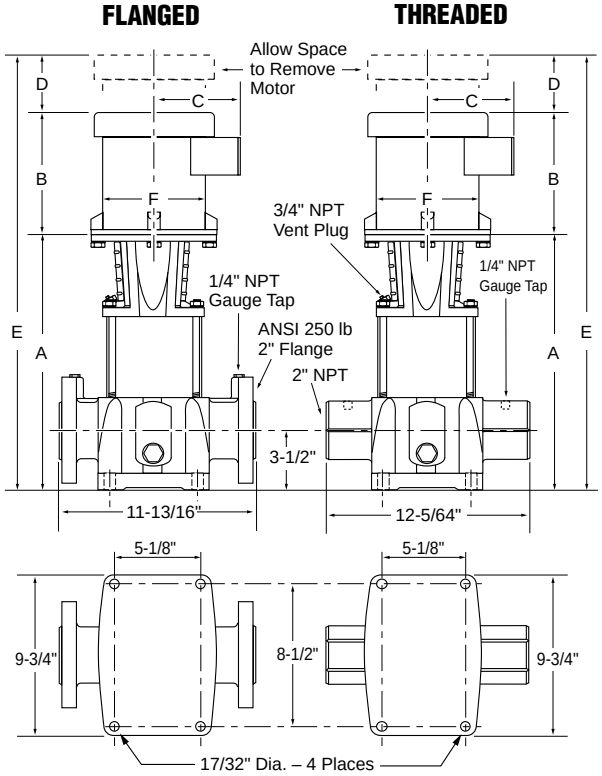
Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM8-20/1	0.75	1.25	1	115/208-230	56C	2	2	13-7/8	9-7/8	4-7/8	2	25-7/8	6	112	114
BVM8-20/1	0.75	1.25	3	208-230/460	56C	2	2	13-7/8	9-1/4	4-7/8	2	25-1/4	6	107	106
BVM8-20	1.5	1.25	1	115/208-230	56C	2	2	13-7/8	11-1/8	5-5/8	2	27-1/8	7-1/8	130	125
BVM8-20	1.5	1.15	3	208-230/460	56C	2	2	13-7/8	10-1/8	5-3/4	2-1/8	26-1/8	7-1/4	119	118
BVM8-30	3	1.15	1	208-230	182TC	2	2	16-5/8	13-5/8	6-7/8	2-3/4	33	8-1/2	182	173
BVM8-30	3	1.15	3	208-230/460	182TC	2	2	16-5/8	12-1/4	6-7/8	2-7/8	31-3/4	8-1/2	163	163
BVM8-40	3	1.15	1	208-230	182TC	2	2	17-3/4	13-5/8	6-7/8	2-3/4	34-1/4	8-1/2	184	175
BVM8-40	3	1.15	3	208-230/460	182TC	2	2	17-3/4	12-1/4	6-7/8	2-7/8	33	8-1/2	165	165
BVM8-50	5	1.15	1	208-230	213TCZ	2	2	19	15-1/4	8	3-3/8	37-5/8	10-5/8	217	191
BVM8-50	5	1.15	3	208-230/460	184TC	2	2	19	13-5/8	6-7/8	2-7/8	35-1/2	8-1/2	190	187
BVM8-60	5	1.15	1	208-230	213TCZ	2	2	20-1/8	15-1/4	8	3-3/8	38-7/8	10-5/8	221	195
BVM8-60	5	1.15	3	208-230/460	184TC	2	2	20-1/8	13 -5/8	6-7/8	2-7/8	36-3/4	8-1/2	194	191
BVM8-70	5	1.15	1	208-230	213TCZ	2	2	20-1/8	15-1/4	8	3-3/8	38-7/8	10-5/8	224	198
BVM8-70	5	1.15	3	208-230/460	184TC	2	2	20-1/8	15-1/4	7-7/8	3-3/8	38-7/8	10-5/8	197	194

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

BVM8 SERIES

Cast Iron Construction





Technical Information

MINIMUM PUMPING RATES: 5.3 GPM

FLOW RANGE: 5.3 – 65 GPM

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

MAXIMUM WORKING PRESSURE: 360 PSI

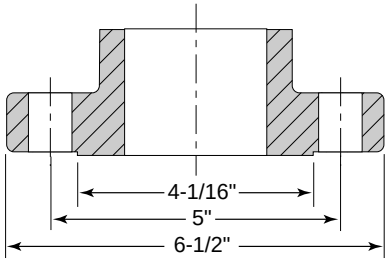
MAXIMUM AMBIENT TEMPERATURE: 104° F

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 – BVM 8 Series

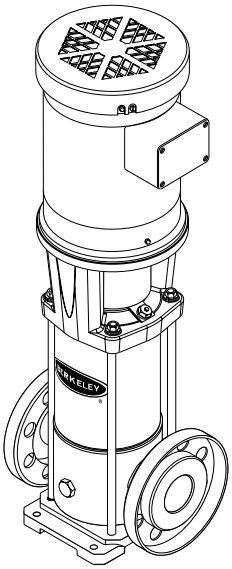
7-1/2 thru 15 HP

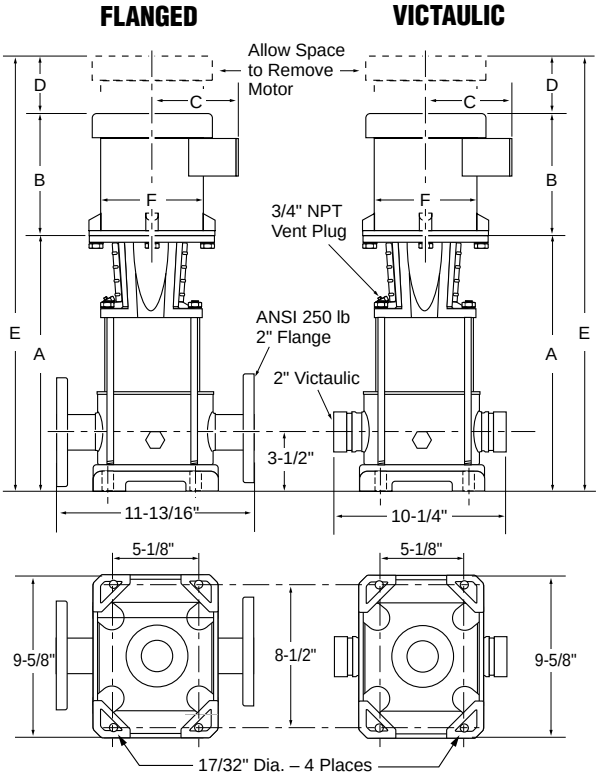
Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM8-80	7.5	1.15	1	208-230	213TC	2	2	22-1/2	15-1/4	8	3-3/8	41-1/8	10-5/8	206	223
BVM8-80	7.5	1.15	3	208-230/460	213TC	2	2	22-1/2	15-1/4	7-7/8	3-3/8	41-1/8	10-3/8	224	213
BVM8-90	7.5	1.15	1	208-230	213TC	2	2	24-7/8	15-1/4	8	3-3/8	43-1/2	10-5/8	207	234
BVM8-90	7.5	1.15	3	208-230/460	213TC	2	2	24-7/8	15-1/4	7 7/8	3-3/8	43-1/2	10-5/8	225	214
BVM8-100	7.5	1.15	1	208-230	213TC	2	2	24-7/8	15-1/4	8	3-3/8	43-1/2	10-5/8	208	235
BVM8-100	7.5	1.15	3	208-230/460	213TC	2	2	24-7/8	15-1/4	7-7/8	3-3/8	43-1/2	10-3/8	226	215
BVM8-110	10	1.15	1	208-230	215TC	2	2	27-1/4	16-3/8	8-3/4	3-3/8	47	10-5/8	285	265
BVM8-110	10	1.15	3	208-230/460	215TC	2	2	27-1/4	16-3/8	8	3-3/8	47	10-5/8	224	269
BVM8-120	10	1.15	1	208-230	215TC	2	2	27-1/4	16-3/8	8-3/4	3-3/8	47	10-5/8	286	266
BVM8-120	10	1.15	3	208-230/460	215TC	2	2	27-1/4	15-1/4	8	3-3/8	45-7/8	10-3/8	225	270
BVM8-130	10	1.15	1	208-230	215TC	2	2	27-1/4	16-3/8	8-3/4	3-3/8	47	10-5/8	287	267
BVM8-130	10	1.15	3	208-230/460	215TC	2	2	27-1/4	16-3/8	8	3-3/8	47	10-5/8	226	271
BVM8-140	10	1.15	1	208-230	215TC	2	2	29-5/8	16-3/8	8-3/4	3-3/8	49-3/8	10-5/8	288	268
BVM8-140	10	1.15	3	208-230/460	215TC	2	2	29-5/8	15-1/4	8	3-3/8	48-1/4	10-3/8	227	272
BVM8-150	15	1.15	3	230/460	254TC	2	2	32-1/2	19-5/8	9-1/2	4-1/4	56-3/8	13	354	351
BVM8-160	15	1.15	3	208-230/460	254TC	2	2	32-1/2	19-5/8	9-1/2	4-1/4	56-3/8	13	355	352

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

BVM (I/X) 8 SERIES

304 SS and 316 SS Construction





Technical Information

MINIMUM PUMPING RATES: 5.3 GPM

FLOW RANGE: 5.3 – 65 GPM

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

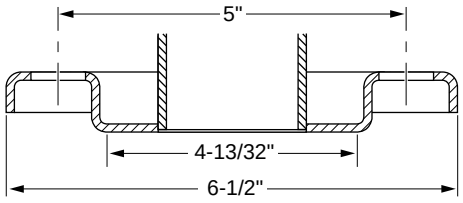
MAXIMUM WORKING PRESSURE: 360 PSI

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 – BVM (I/X) 8 Series†

3/4 thru 5 HP

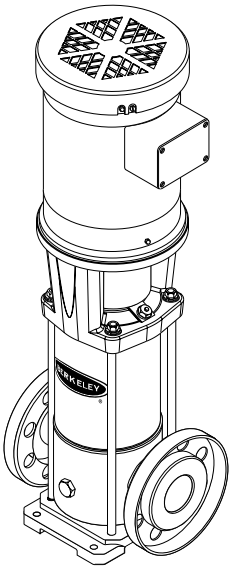
Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM(I/X)8-20/1	0.75	1.25	1	115/208-230	56C	2	2	13-7/8	9-7/8	4-7/8	2	25-7/8	6	72	74
BVM(I/X)8-20/1	0.75	1.25	3	208-230/460	56C	2	2	13-7/8	9-7/8	4-7/8	2	25-7/8	6	67	66
BVM(I/X)8-20	1.5	1.25	1	115/208-230	56C	2	2	13-7/8	11-1/8	5-3/4	2-1/8	27-1/8	7-1/4	90	85
BVM(I/X)8-20	1.5	1.15	3	208-230/460	56C	2	2	13-7/8	11-1/8	5-3/4	2-1/8	27-1/8	7-1/4	79	78
BVM(I/X)8-30	3	1.15	1	208-230	182TC	2	2	16-5/8	13-5/8	6-7/8	2-7/8	33-1/8	8-1/2	142	133
BVM(I/X)8-30	3	1.15	3	208-230/460	182TC	2	2	16-5/8	13-5/8	6-7/8	2-7/8	33-1/8	8-1/2	123	123
BVM(I/X)8-40	3	1.15	1	208-230	182TC	2	2	17-3/4	13-5/8	6-7/8	2-7/8	34-3/8	8-1/2	144	135
BVM(I/X)8-40	3	1.15	3	208-230/460	182TC	2	2	17-3/4	13-5/8	6-7/8	2-7/8	34-3/8	8-1/2	125	125
BVM(I/X)8-50	5	1.15	1	208-230	213TCZ	2	2	19	15-1/4	8	3-3/8	37-5/8	10-5/8	177	151
BVM(I/X)8-50	5	1.15	3	208-230/460	184TC	2	2	19	15-1/4	8	3-3/8	37-5/8	10-5/8	150	147
BVM(I/X)8-60	5	1.15	1	208-230	213TCZ	2	2	20-1/8	15-1/4	8	3-3/8	38-7/8	10-5/8	181	155
BVM(I/X)8-60	5	1.15	3	208-230/460	184TC	2	2	20-1/8	15-1/4	8	3-3/8	38-7/8	10-5/8	154	151
BVM(I/X)8-70	5	1.15	1	208-230	213TCZ	2	2	20-1/4	15-1/4	8	3-3/8	38-7/8	10-5/8	184	158
BVM(I/X)8-70	5	1.15	3	208-230/460	184TC	2	2	20-1/4	15-1/4	7-7/8	3-3/8	38-7/8	10-5/8	157	154

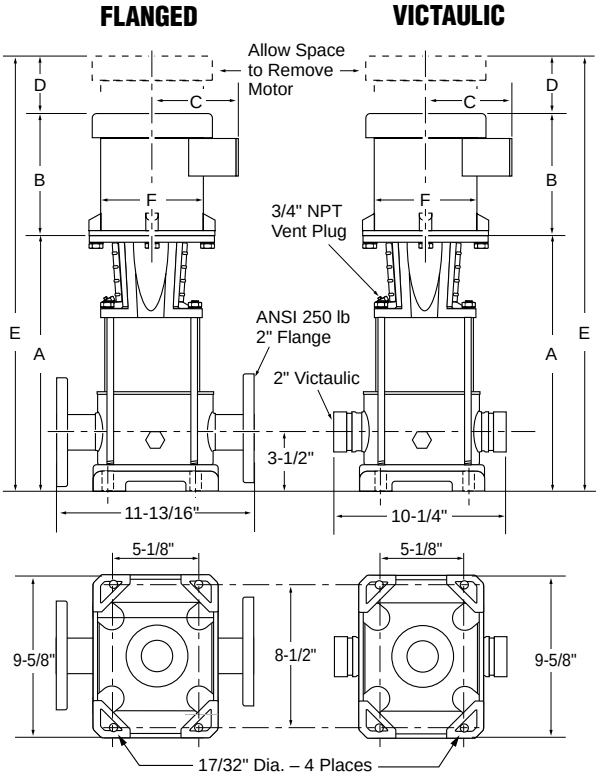
* Measurements represent the largest number possible for each model using standard efficiency motors.

† Includes BVMI models constructed of 304 Stainless Steel and BVMX models constructed of 316 Stainless Steel.

BVM (I/X) 8 SERIES

304 SS and 316 SS Construction





Technical Information

MINIMUM PUMPING RATES: 5.3 GPM

FLOW RANGE: 5.3 – 65 GPM

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

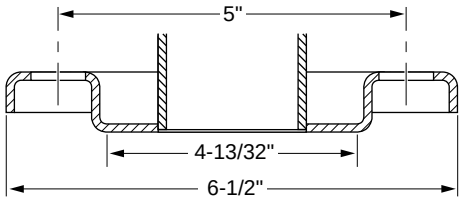
MAXIMUM WORKING PRESSURE: 360 PSI

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 – BVM (I/X) 8 Series†

7-1/2 thru 15 HP

Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM(I/X)8-80	7.5	1.15	1	208-230	213TC	2	2	22-1/2	15-1/4	8	3-3/8	41-1/8	10-5/8	166	193
BVM(I/X)8-80	7.5	1.15	3	208-230/460	213TC	2	2	22-1/2	15-1/4	8	3-3/8	41-1/8	10-5/8	184	173
BVM(I/X)8-90	7.5	1.15	1	208-230	213TC	2	2	25	15 1/4	8	3-3/8	43-5/8	10-5/8	167	194
BVM(I/X)8-90	7.5	1.15	3	208-230/460	213TC	2	2	25	151/4	7-7/8	3-3/8	43-5/8	10-5/8	185	174
BVM(I/X)8-100	7.5	1.15	1	208-230	213TC	2	2	24-7/8	15-1/4	8	3-3/8	43-1/2	10-5/8	168	195
BVM(I/X)8-100	7.5	1.15	3	208-230/460	213TC	2	2	24-7/8	15-1/4	8	3-3/8	43-1/2	10-5/8	186	175
BVM(I/X)8-110	10	1.15	1	208-230	215TC	2	2	27-3/8	16-3/8	8-3/4	3-3/8	47-1/8	10-5/8	245	225
BVM(I/X)8-110	10	1.15	3	208-230/460	215TC	2	2	27-3/8	16-3/8	8	3-3/8	47-1/8	10-5/8	184	229
BVM(I/X)8-120	10	1.15	1	208-230	215TC	2	2	27-1/4	16-1/2	8-3/4	3-3/8	47-1/8	10-5/8	246	226
BVM(I/X)8-120	10	1.15	3	208-230/460	215TC	2	2	27-1/4	16-1/2	8-3/4	3-3/8	47-1/8	10-5/8	185	230
BVM(I/X)8-130	10	1.15	1	208-230	215TC	2	2	27-3/8	16-3/8	8-3/4	3-3/8	47-1/8	10-5/8	247	227
BVM(I/X)8-130	10	1.15	3	208-230/460	215TC	2	2	27-3/8	16-3/8	8	3-3/8	47-1/8	10-5/8	186	231
BVM(I/X)8-140	10	1.15	1	208-230	215TC	2	2	29-5/8	16-3/8	8-3/4	3-3/8	49-3/8	10-5/8	248	228
BVM(I/X)8-140	10	1.15	3	208-230/460	215TC	2	2	29-5/8	16-3/8	8-3/4	3-3/8	49-3/8	10-5/8	187	232
BVM(I/X)8-150	15	1.15	3	230/460	254TC	2	2	32-5/8	19-5/8	9-1/2	4-1/4	56-1/2	13	314	311
BVM(I/X)8-160	15	1.15	3	208-230/460	254TC	2	2	32-1/2	19-5/8	9-1/2	4-1/4	56-3/8	13	315	312

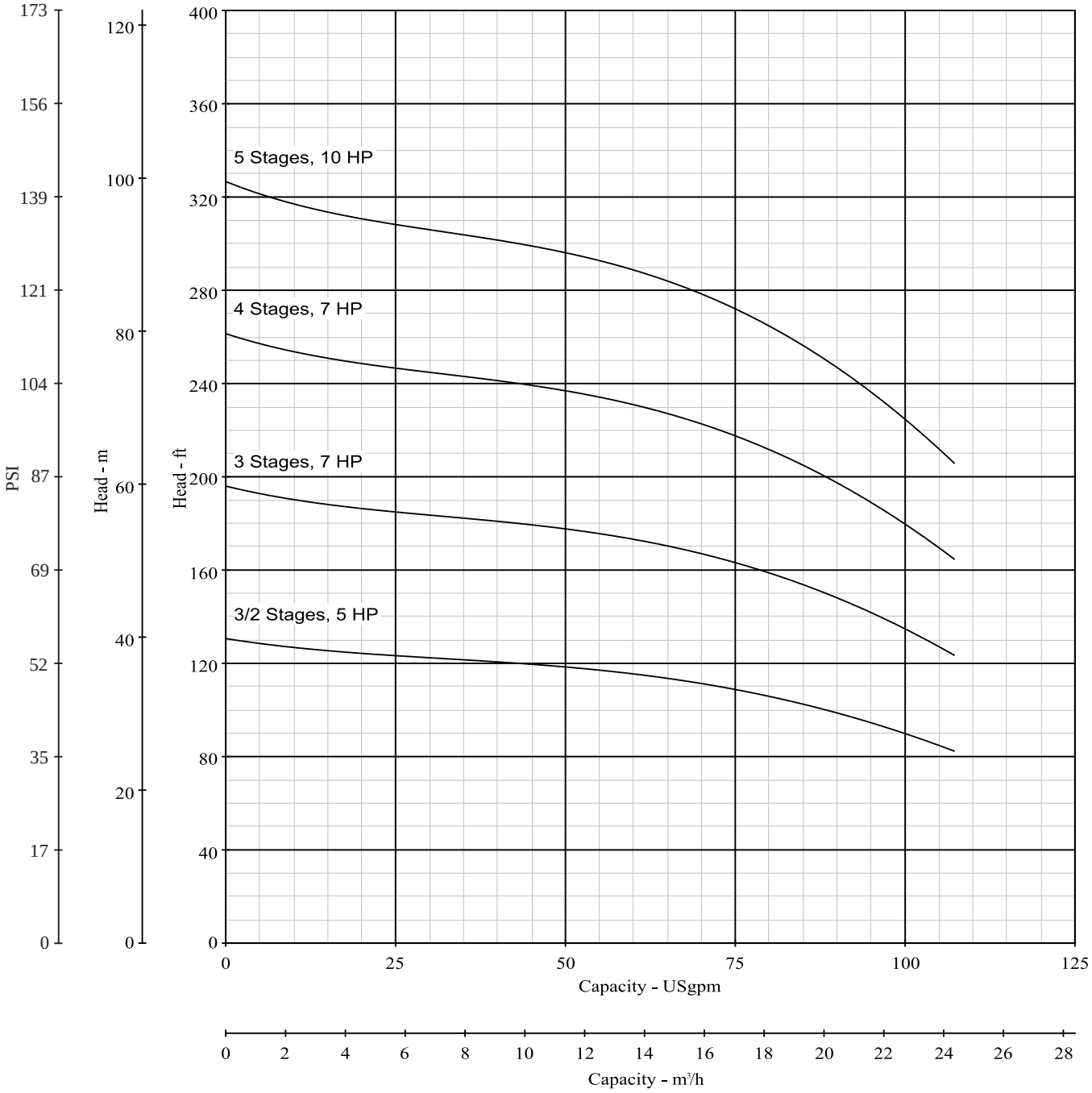
* Measurements represent the largest number possible for each model using standard efficiency motors.

† Includes BVMI models constructed of 304 Stainless Steel and BVMX models constructed of 316 Stainless Steel.

BVM (I/X) 16 SERIES

Performance Curves – BVM (I/X) 16 Series

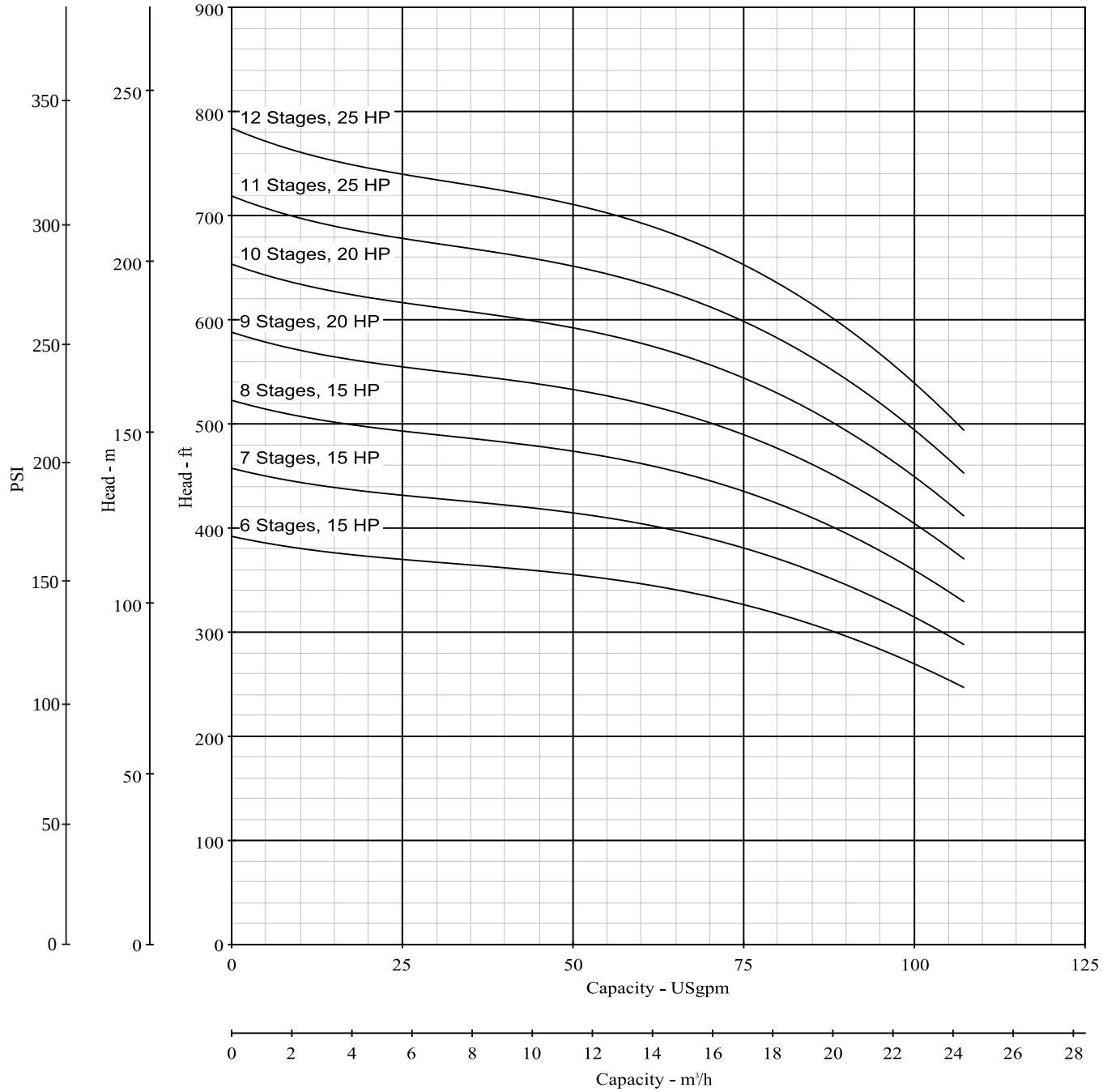
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM (I/X) 16 SERIES

Performance Curves – BVM (I/X) 16 Series

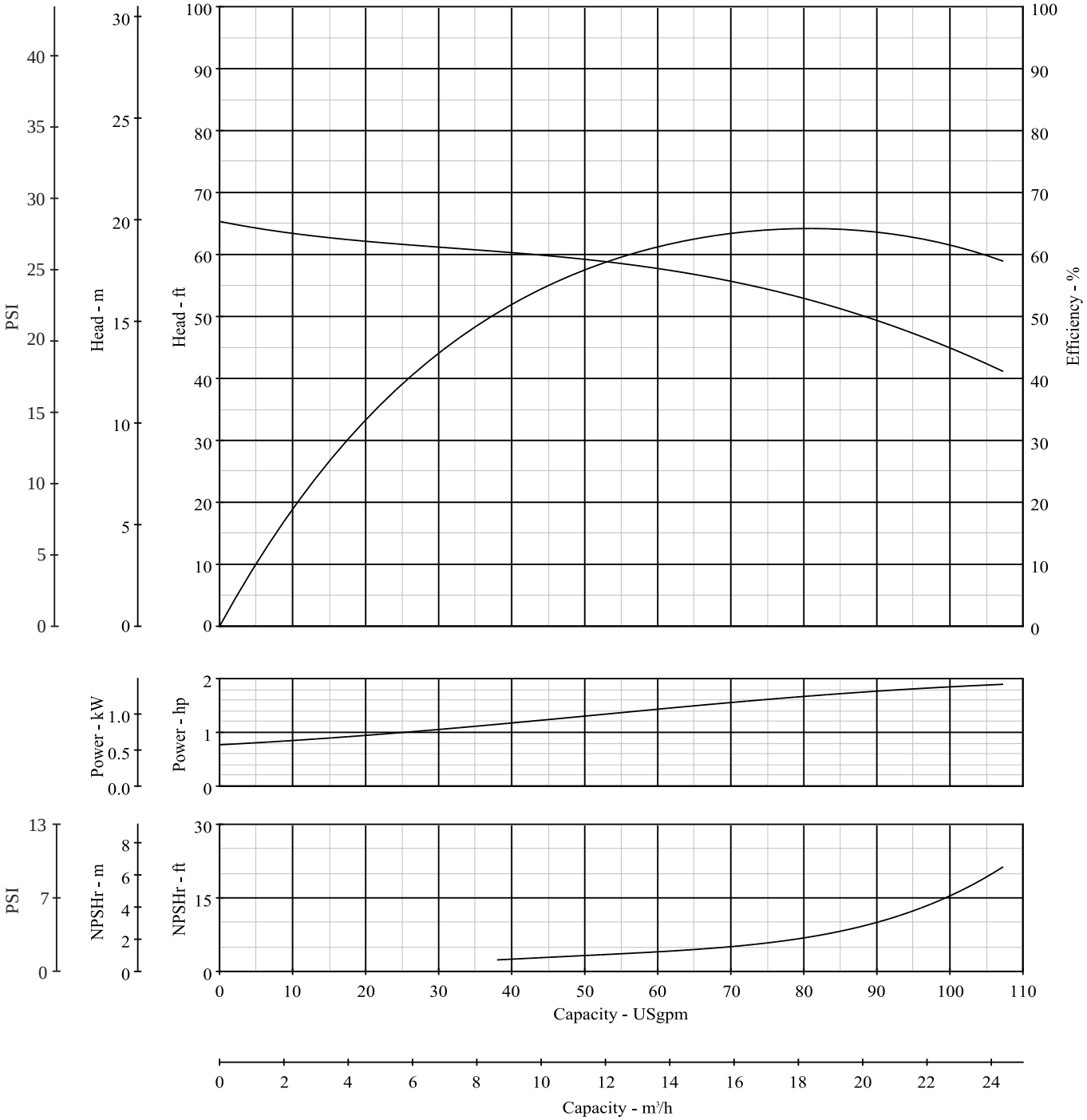
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM (I/X) 16 SERIES

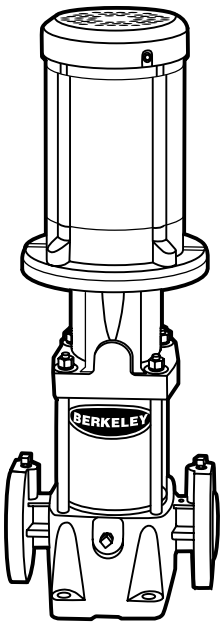
Single Stage Performance Data – BVM (I/X) 16 Series

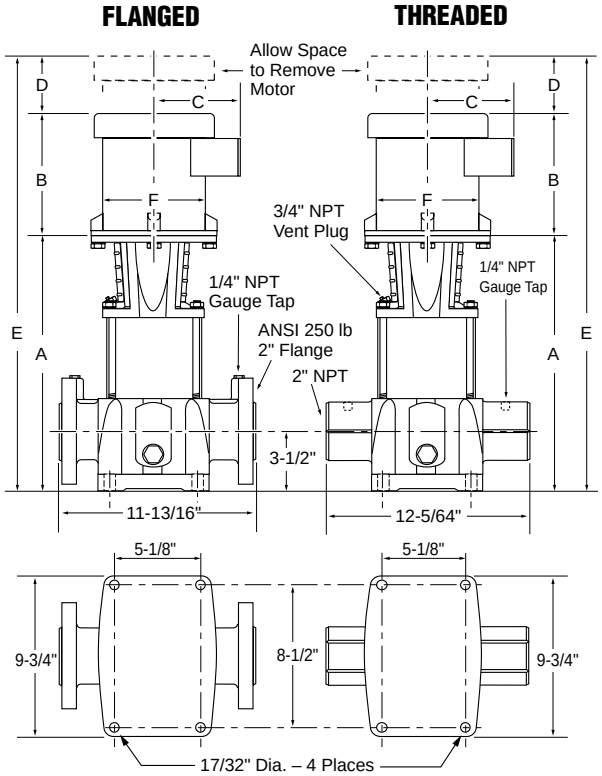
Nominal RPM: **3450**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 360 PSI



BVM16 SERIES

Cast Iron Construction





Technical Information

MINIMUM PUMPING RATES: 8.5 GPM

FLOW RANGE: 8.5 – 105 GPM

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

MAXIMUM WORKING PRESSURE: 360 PSI

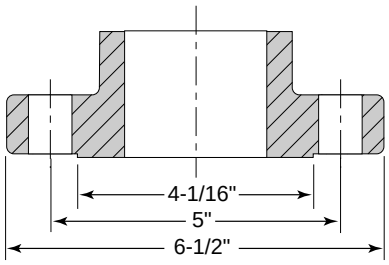
MAXIMUM AMBIENT TEMPERATURE: 104° F

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 – BVM 16 Series

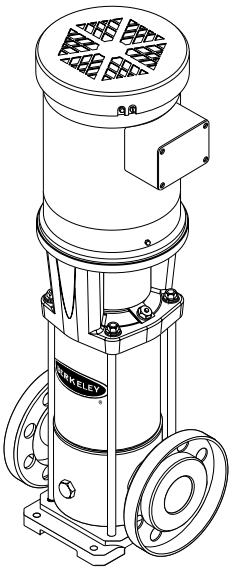
5 thru 25 HP

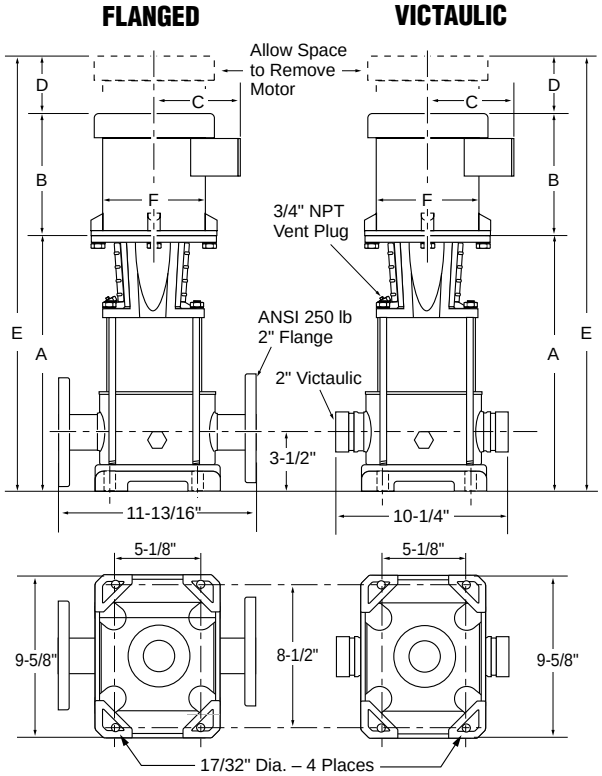
Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM16-30/2	5	1.15	1	208-230	213TCZ	2	2	17-7/8	15-1/4	8	3-3/8	36-1/2	10-5/8	218	192
BVM16-30/2	5	1.15	3	208-230/460	184TC	2	2	17-7/8	13-5/8	6-7/8	2-7/8	34-3/8	8-1/2	191	188
BVM16-30	7.5	1.15	1	208-230	213TC	2	2	17-7/8	15-1/4	8	3-3/8	36-1/2	10-5/8	200	227
BVM16-30	7.5	1.15	3	208-230/460	213TC	2	2	17-7/8	15-1/4	7-1/2	3-3/8	36-1/2	10-3/8	218	207
BVM16-40	7.5	1.15	1	208-230	213TC	2	2	19-5/8	15-1/4	8	3-3/8	38-1/4	10-5/8	200	227
BVM16-40	7.5	1.15	3	208-230/460	213TC	2	2	19-5/8	15-1/4	7-7/8	3-3/8	38-1/4	10-3/8	218	207
BVM16-50	10	1.15	1	208-230	215TC	2	2	21-3/8	16-3/8	8-3/4	3-3/8	41-1/8	10-5/8	285	265
BVM16-50	10	1.15	3	208-230/460	215TC	2	2	21-3/8	15-1/4	8	3-3/8	40	10-3/8	224	269
BVM16-60	15	1.15	3	208-230/460	254TC	2	2	23-5/8	19-5/8	9-1/2	4-1/4	47-1/2	13	344	341
BVM16-70	15	1.15	3	208-230/460	254TC	2	2	25-3/8	19-5/8	9-1/2	4-1/4	49-1/4	13	347	344
BVM16-80	15	1.15	3	208-230/460	254TC	2	2	27-1/8	19-5/8	9-1/2	4-1/4	51-1/8	13	349	346
BVM16-90	20	1.15	3	230/460	254TC	2	2	28-1/2	21-3/4	9-1/8	4	54-1/4	11-1/2	416	351
BVM16-100	20	1.15	3	230/460	254TC	2	2	31-1/4	21-3/4	9-1/8	4	56	11-1/2	420	355
BVM16-110	25	1.15	3	230/460	284TSC	2	2	31-7/8	21-3/4	9-1/2	3-1/4	56-7/8	13	525	402
BVM16-120	25	1.15	3	230/460	284TSC	2	2	33-5/8	21-3/4	9-1/2	3-1/4	58-5/8	13	533	410

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

BVM (I/X) 16 SERIES

304 SS and 316 SS Construction





Technical Information

MINIMUM PUMPING RATES: 8.5 GPM

FLOW RANGE: 8.5 – 105 GPM

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

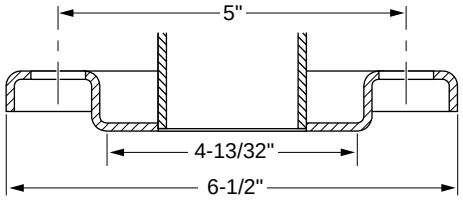
MAXIMUM WORKING PRESSURE: 360 PSI

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 – BVM (I/X) 16 Series†

5 thru 25 HP

Model Number†	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
BVM(I/X)16-30/2	5	1.15	1	208-230	213TCZ	2	2	19-1/2	15-1/4	8	3-3/8	38-1/4	10-5/8	167	141
BVM(I/X)16-30/2	5	1.15	3	208-230/460	184TC	2	2	19-1/2	15-1/4	8	3-3/8	38-1/4	10-5/8	140	137
BVM(I/X)16-30	7.5	1.15	1	208-230	213TC	2	2	19-1/2	15-1/4	8	3-3/8	38-1/4	10-5/8	153	180
BVM(I/X)16-30	7.5	1.15	3	208-230/460	213TC	2	2	19-1/2	15-1/4	8	3-3/8	38-1/4	10-5/8	171	160
BVM(I/X)16-40	7.5	1.15	1	208-230	213TC	2	2	21-3/8	15-1/4	8	3-3/8	40	10-5/8	156	183
BVM(I/X)16-40	7.5	1.15	3	208-230/460	213TC	2	2	21-3/8	15-1/4	8	3-3/8	40	10-5/8	174	163
BVM(I/X)16-50	10	1.15	1	208-230	215TC	2	2	21-3/8	16-3/8	8-3/4	3-3/8	42-7/8	10-5/8	234	214
BVM(I/X)16-50	10	1.15	3	208-230/460	215TC	2	2	21-3/8	16-3/8	8-3/4	3-3/8	42-7/8	10-5/8	173	218
BVM(I/X)16-60	15	1.15	3	208-230/460	254TC	2	2	23-5/8	19-5/8	9-1/2	4-1/4	49-1/4	13	307	304
BVM(I/X)16-70	15	1.15	3	208-230/460	254TC	2	2	25-3/8	19-5/8	9-1/2	4-1/4	51	13	309	306
BVM(I/X)16-80	15	1.15	3	208-230/460	254TC	2	2	27-1/8	19-5/8	9-1/2	4-1/4	52-7/8	13	322	319
BVM(I/X)16-90	20	1.15	3	230/460	254TC	2	2	28-1/2	21-3/4	9 1/8	4	56	11-1/2	389	324
BVM(I/X)16-100	20	1.15	3	230/460	254TC	2	2	30-1/4	21-3/4	9-1/8	4	57-3/4	11-1/2	398	333
BVM(I/X)16-110	25	1.15	3	230/460	284TSC	2	2	32	21-3/4	9 -1/2	3-1/4	58-3/4	13	503	380
BVM(I/X)16-120	25	1.15	3	230/460	284TSC	2	2	33-5/8	21-3/4	9-1/2	3-1/4	60-3/8	13	506	383

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

† Includes BVMI models constructed of 304 Stainless Steel and BVMX models constructed of 316 Stainless Steel.

BVM (I/X) 8 & 16 SERIES

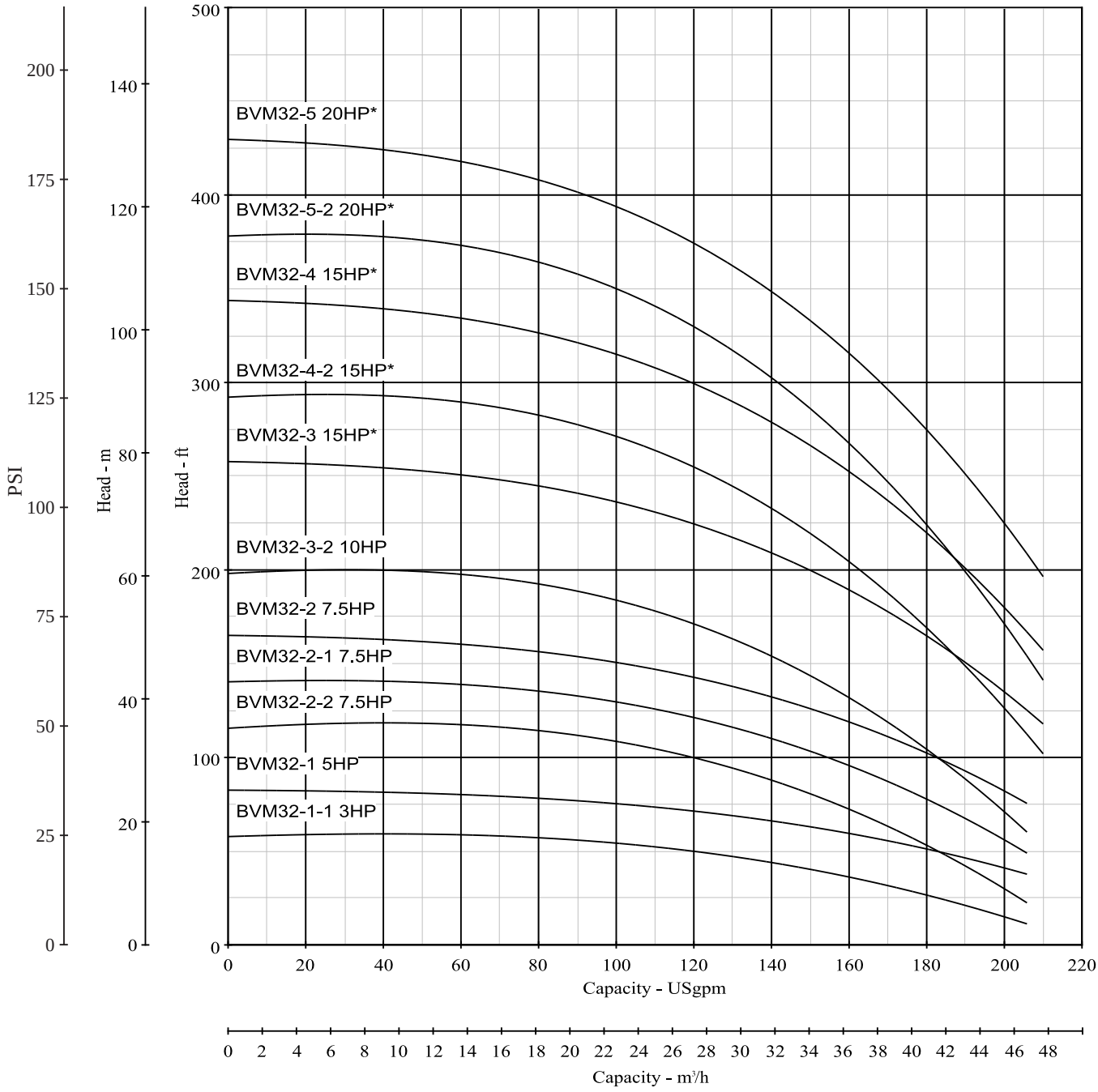
Construction Materials

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	Class 30 Cast Iron	304 SS	316 SS	
Motor bracket	Class 30 Cast Iron	Class 30 CI or 316 SS	Class 30 CI or 316 SS	
Motor Couplings	Class 30 Cast Iron	Class 30 Cast Iron	Class 30 Cast Iron	
Intermediate Chamber 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	Carbon Graphite	Carbon Graphite	Carbon Graphite	
• 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	

BVM32 SERIES

Performance Curves – BVM 32 Series

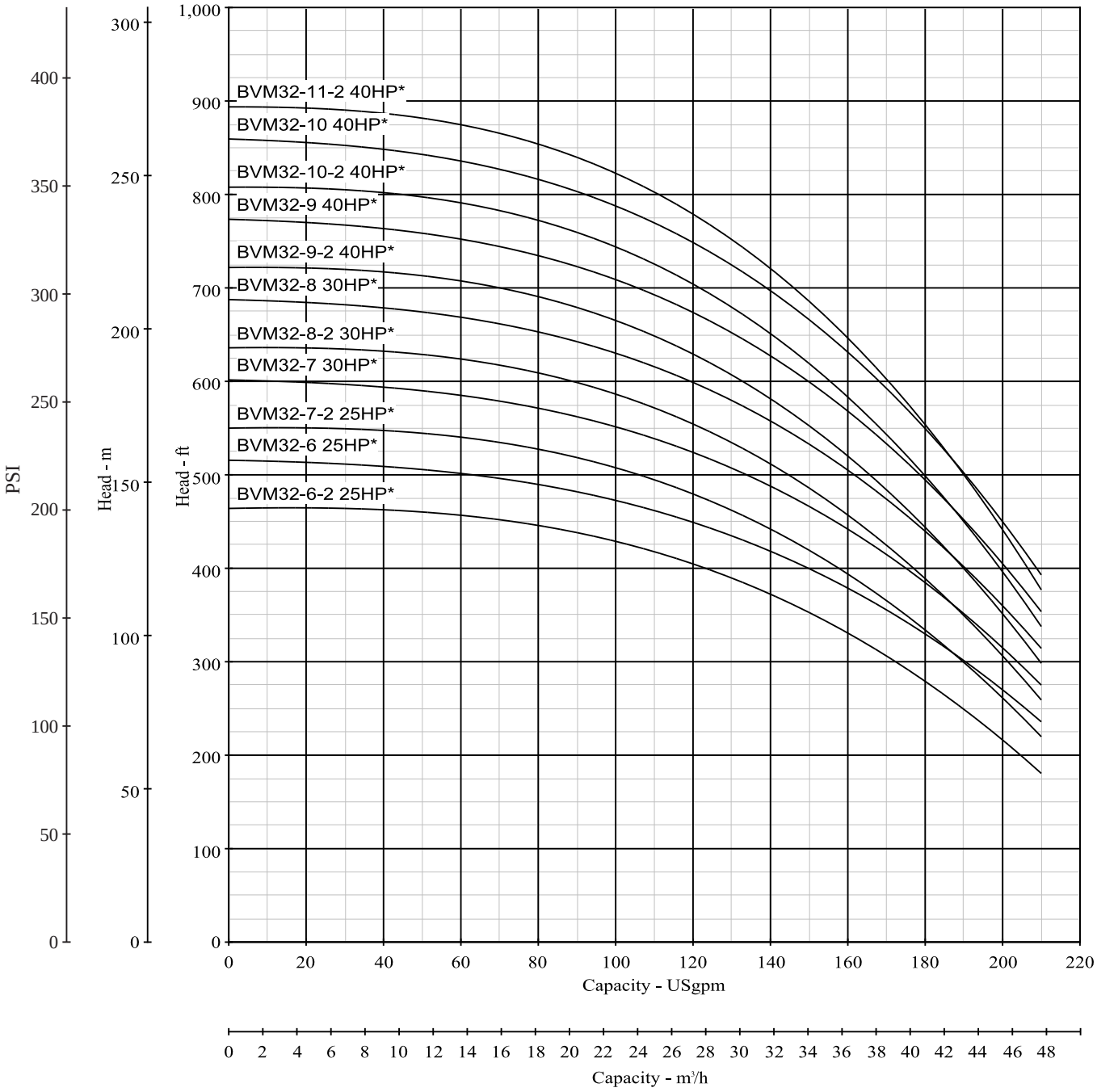
Nominal RPM: **3450 (*3520)**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 435 PSI



BVM32 SERIES

Performance Curves – BVM 32 Series

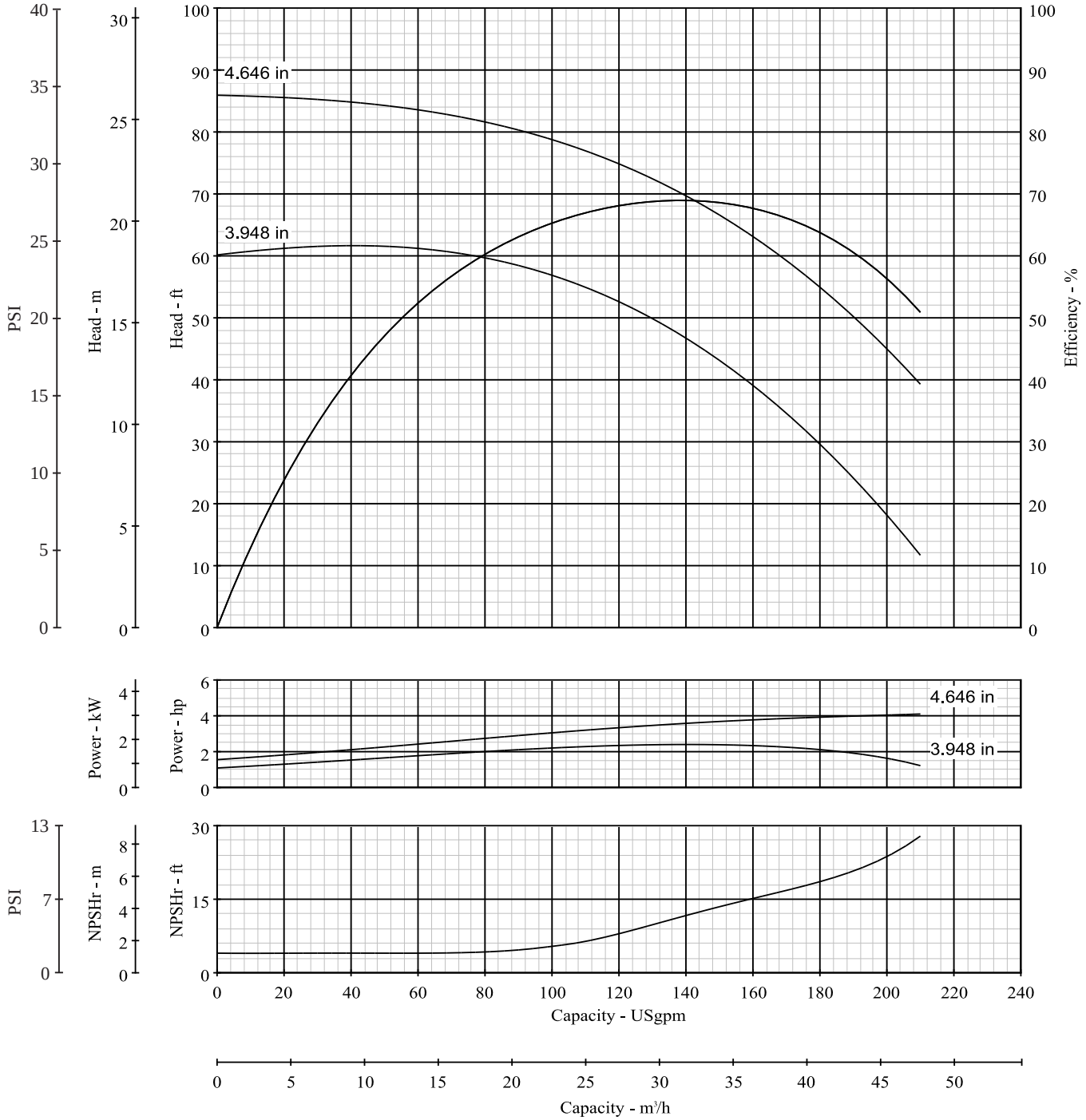
Nominal RPM: **3450 (*3520)**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 435 PSI



BVM32 SERIES

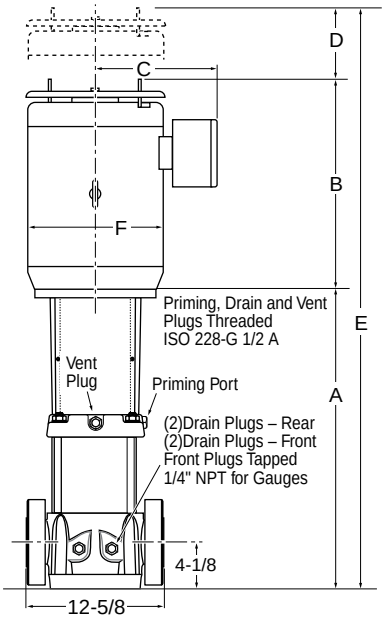
Single Stage Performance Data Curves – BVM 32 Series

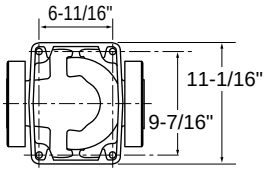
Nominal RPM: **3520**
Based on Fresh Water@68 deg. F.
Maximum Working Pressure: 230 PSI



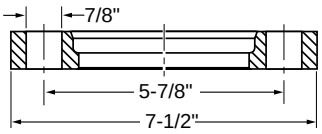
BVM32 SERIES

Cast Iron Construction

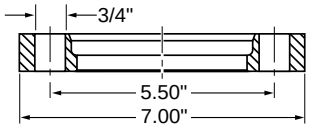




ANSI 300# 2-1/2" 8-Bolt Flange
(6-11 Stage Pumps)



ANSI 150# 2-1/2" 4-Bolt Flange
(1-5 Stage Pumps)



Technical Information

MINIMUM PUMPING RATES:
Up to 175° F - 15 GPM
175° F to 250° F - 35 GPM

FLOW RANGE: 15 – 210 GPM

MINIMUM SUCTION PIPE SIZES:
2-1/2" Nominal Diameter, Schedule 40 Pipe

MAXIMUM WORKING PRESSURE: 435 PSI

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 37.

Dimensions and Specifications – BVM32 Series

Model Number	HP	Motor S F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						Weight (ODP)	Weight (TEFC)
								A	B	C	D	E	F		
BVM32-1-1	3	1.15	1	208-230	182TC	2-1/2	2-1/2	22.74	13.63	6.88	2.88	39.24	8.50	191	187
BVM32-1-1	3	1.15	3	208-230/460	182TC	2-1/2	2-1/2	22.74	13.63	6.88	2.88	39.24	8.50	191	187
BVM32-1	5	1.15	1	208-230	184TC	2-1/2	2-1/2	22.74	15.25	8.00	3.38	41.37	10.63	205	199
BVM32-1	5	1.15	3	208-230/460	213TCZ	2-1/2	2-1/2	22.74	15.25	8.00	3.38	41.37	10.63	205	199
BVM32-2-2	7.5	1.15	1	208-230	213TC	2-1/2	2-1/2	27.49	15.25	8.00	3.38	46.12	10.63	228	231
BVM32-2-2	7.5	1.15	3	208-230/460	213TC	2-1/2	2-1/2	27.49	15.25	8.00	3.38	46.12	10.63	228	231
BVM32-2-1	7.5	1.15	1	208-230	213TC	2-1/2	2-1/2	27.49	15.25	8.00	3.38	46.12	10.63	228	231
BVM32-2-1	7.5	1.15	3	208-230/460	213TC	2-1/2	2-1/2	27.49	15.25	8.00	3.38	46.12	10.63	228	231
BVM32-2	7.5	1.15	1	208-230	213TC	2-1/2	2-1/2	27.49	15.25	8.00	3.38	46.12	10.63	228	231
BVM32-2	7.5	1.15	3	208-230/460	213TC	2-1/2	2-1/2	27.49	15.25	8.00	3.38	46.12	10.63	228	231
BVM32-3-2	10	1.15	1	208-230	215TC	2-1/2	2-1/2	30.24	16.38	8.75	3.38	49.99	10.63	252	268
BVM32-3-2	10	1.15	3	208-230/460	215TC	2-1/2	2-1/2	30.24	16.38	8.75	3.38	49.99	10.63	252	268
BVM32-3	15	1.15	3	208-230/460	254TC	2-1/2	2-1/2	30.24	19.63	9.50	4.25	54.12	13.00	344	355
BVM32-4-2	15	1.15	3	208-230/460	254TC	2-1/2	2-1/2	33.00	19.63	9.50	4.25	56.88	13.00	353	364
BVM32-4	15	1.15	3	208-230/460	254TC	2-1/2	2-1/2	33.00	19.63	9.50	4.25	56.88	13.00	353	364
BVM32-5-2	20	1.15	3	230/460	254TC	2-1/2	2-1/2	35.75	21.75	9.13	4.00	61.50	11.50	362	388
BVM32-5	20	1.15	3	230/460	254TC	2-1/2	2-1/2	35.75	21.75	9.13	4.00	61.50	11.50	362	388
BVM32-6-2	25	1.15	3	230/460	284TSC	2-1/2	2-1/2	38.51	21.75	9.13	3.25	63.51	13.00	385	458
BVM32-6	25	1.15	3	230/460	284TSC	2-1/2	2-1/2	38.51	21.75	9.13	3.25	63.51	13.00	385	458
BVM32-7-2	25	1.15	3	230/460	284TSC	2-1/2	2-1/2	41.25	21.75	9.13	3.25	66.25	13.00	394	467
BVM32-7	30	1.15	3	230/460	284TSC	2-1/2	2-1/2	41.25	22.94	13.11	3.25	67.44	14.88	419	545
BVM32-8-2	30	1.15	3	230/460	284TSC	2-1/2	2-1/2	44.02	22.94	13.11	3.25	70.21	14.88	428	554
BVM32-8	30	1.15	3	230/460	284TSC	2-1/2	2-1/2	44.02	22.94	13.11	3.25	70.21	14.88	428	554
BVM32-9-2	40	1.15	3	230/460	286TSC	2-1/2	2-1/2	46.78	22.94	13.13	3.25	72.97	14.91	497	602
BVM32-9	40	1.15	3	230/460	286TSC	2-1/2	2-1/2	46.78	22.94	13.13	3.25	72.97	14.91	497	602
BVM32-10-2	40	1.15	3	230/460	286TSC	2-1/2	2-1/2	49.53	22.94	13.13	3.25	75.72	14.91	506	611
BVM32-10	40	1.15	3	230/460	286TSC	2-1/2	2-1/2	49.53	22.94	13.13	3.25	75.72	14.91	506	611
BVM32-11-2	40	1.15	3	230/460	286TSC	2-1/2	2-1/2	52.29	22.94	13.13	3.25	78.48	14.91	515	620

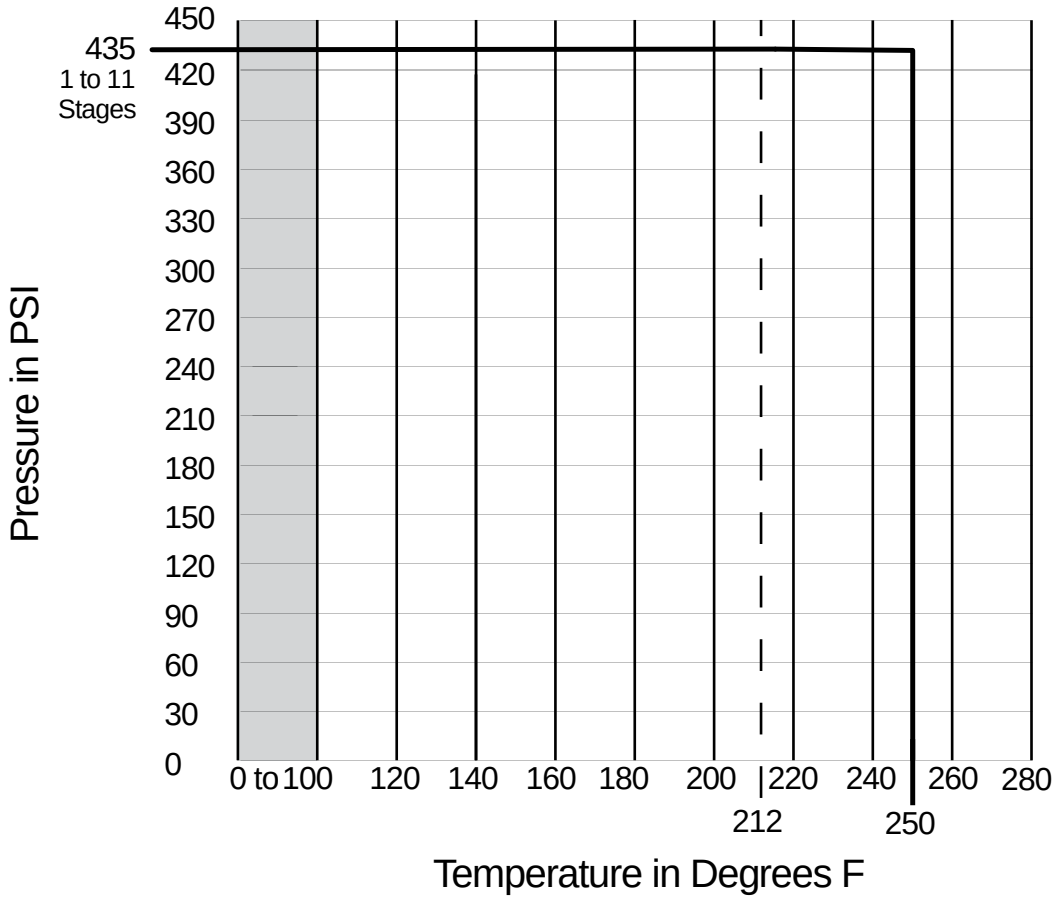
* Measurements represent the largest number possible for each model using standard efficiency motors.

BVM32 SERIES

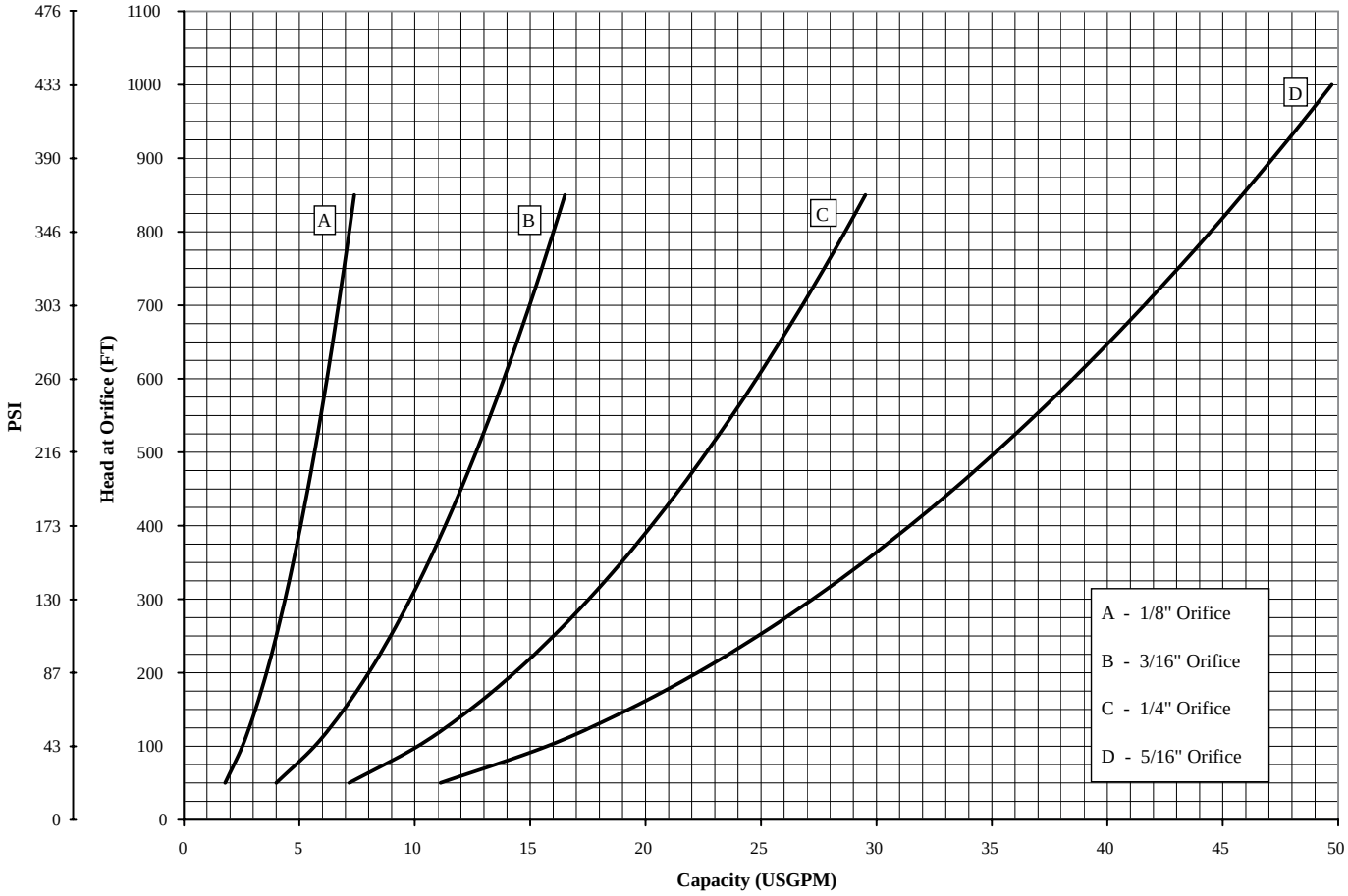
Materials of Construction

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

Permissible Operating Pressure Curves



Bypass Orifice Sizing



BERKELEY LIMITED WARRANTY

Berkeley/Wicor Canada Company ("Wicor") 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 Berkeley's/ Wicor'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 Berkeley/Wicor, 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 Berkeley/Wicor dealer as soon as possible after the discovery of any alleged defect. Berkeley/Wicor 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 Berkeley's/Wicor's sole obligation and purchaser's exclusive remedy for defective products.

BERKELEY/WICOR SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR CONTINGENT DAMAGES WHATSOEVER.

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