



MILANO Series

ISO 2858 STANDARD
END SUCTION CENTRIFUGAL PUMP



50Hz



End Suction Centrifugal Pump



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End Suction Centrifugal Pump

Application (Cast Iron Type)

- / Supply and boosting of tap water and groundwater
- / Circulation and boosting of cold and hot waters in air conditioning system, fire-fighting system, water flushing system, water circulation system for swimming pools and variety of mechanical services

Application (AISI 304/AISI 316/Duplex Type)

- / Different application in industrial processes
- / Pumping of clean raw water, softened and demineralized water, brackish water, sea water, aggressive waters and liquids

Design Features

- / Back pull-out design-easy maintenance
- / Compact structure-space-saving
- / Standard IEC motors
- / 3D curvature hydraulic design, high efficiency impeller

Product Nomenclature

Example **50x32-160**



- 1) Inlet
- 2) Outlet
- 2) Impeller

Note: Material types as below are available to choose.

- Cast Iron Type
- AISI 304 Type
- AISI 316 Type
- Duplex Type

Operating Conditions

- / Temperature Range: -20°C to 120°C
- / Flow Rate: up to 1100 m³/hr
- / Head: up to 160 meters
- / Max. operating pressure: 16 bar
- / Static test pressure shall be 1.5 times of the max. operating pressure, 24 Bar.

Available Materials

EN	ASTM	Type
GGG50	A536 60-45-12	Cast Iron
1.4308	A744 CF8	AISI 304
1.4408	A744 CF8M	AISI 316
1.4517	A890 Grade 4B	Duplex

Stainless Steel



Close Coupled Pump Assembly

Long Coupled Pump Assembly

Spheroidal Graphite Cast Iron

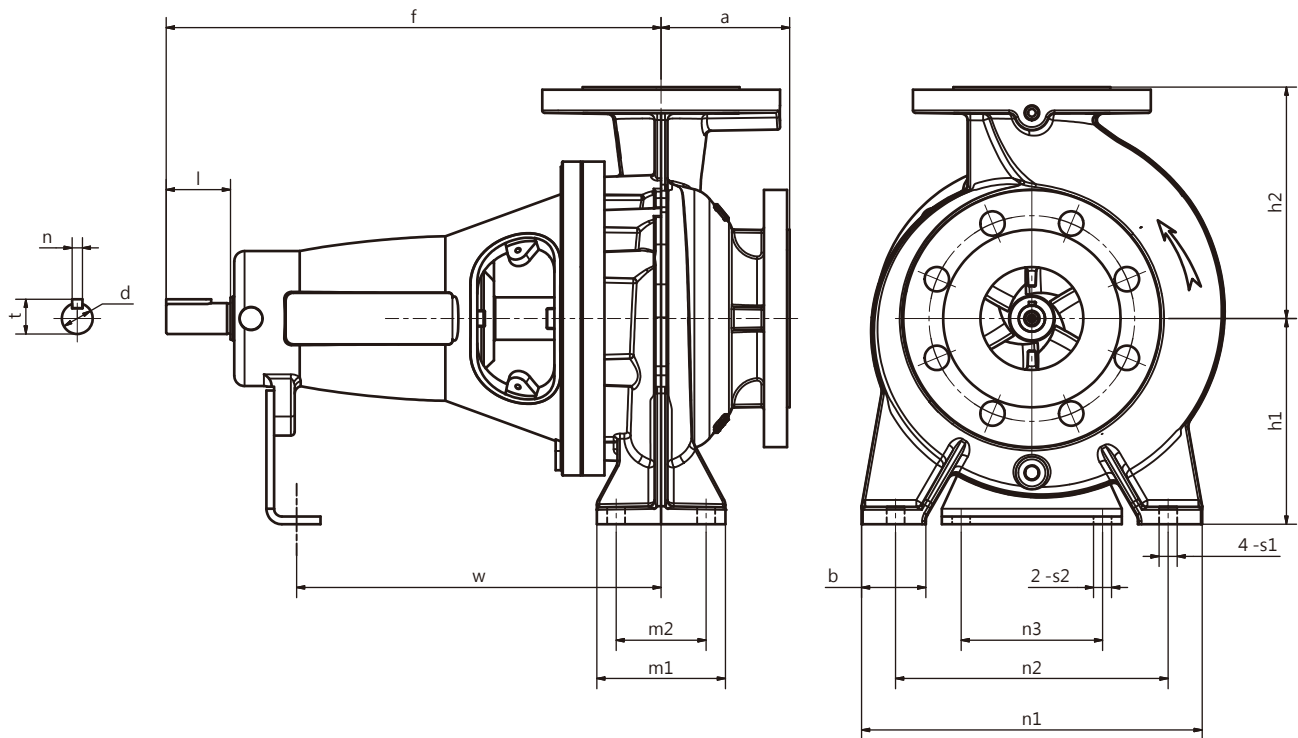


Close Coupled Pump Assembly

Long Coupled Pump Assembly

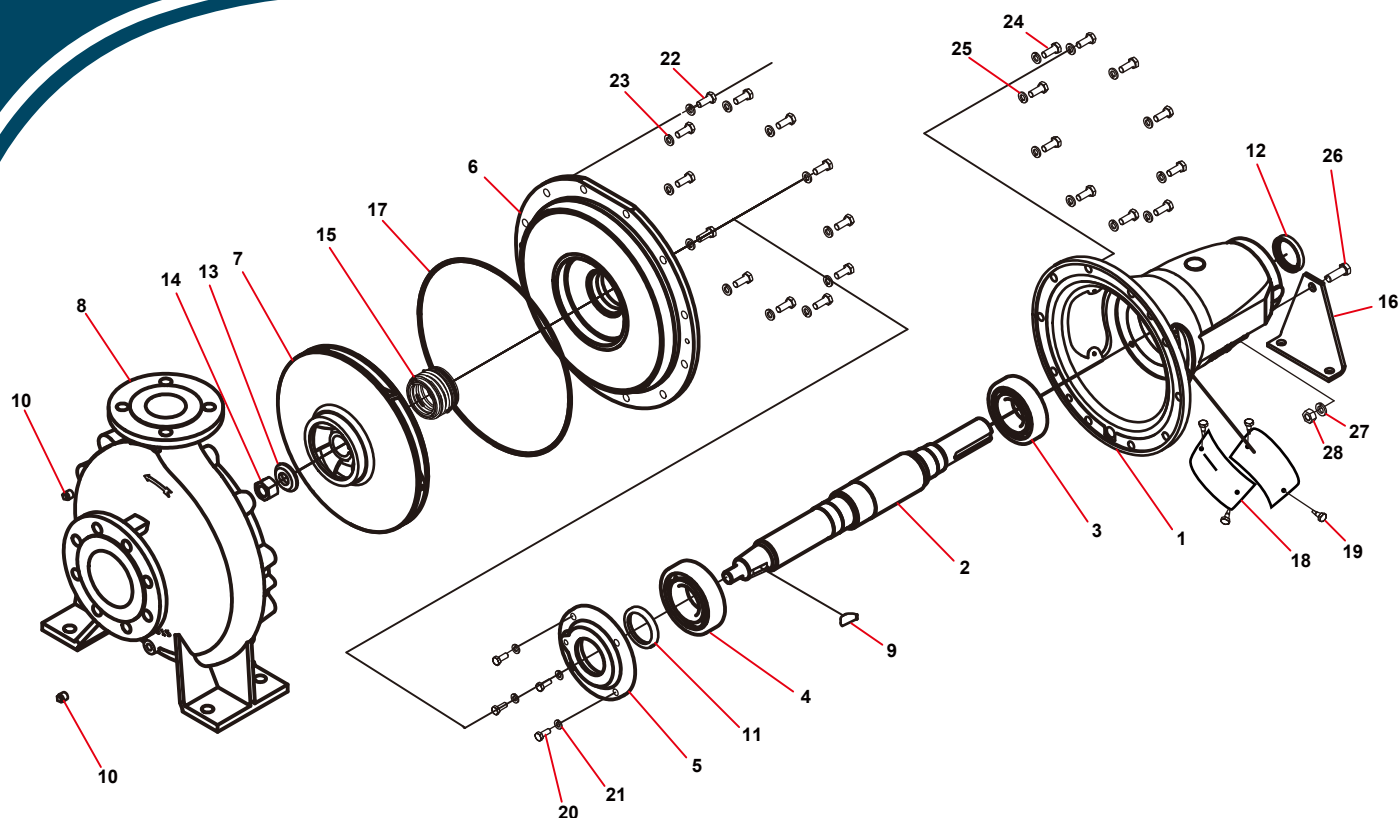
Optional Flange Rating

Item	Flange Dimension Rating
JIS 2212	10K
DIN	PN16



Dimensions (mm)

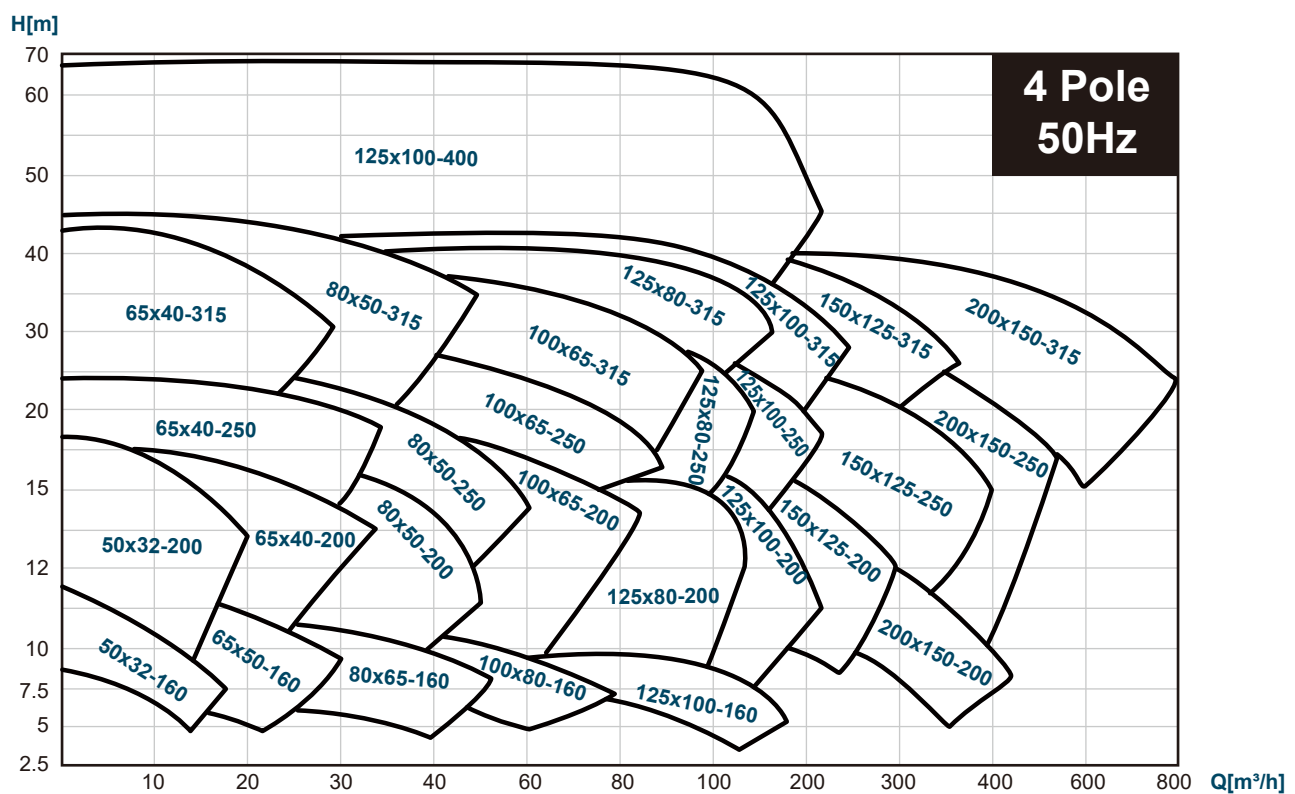
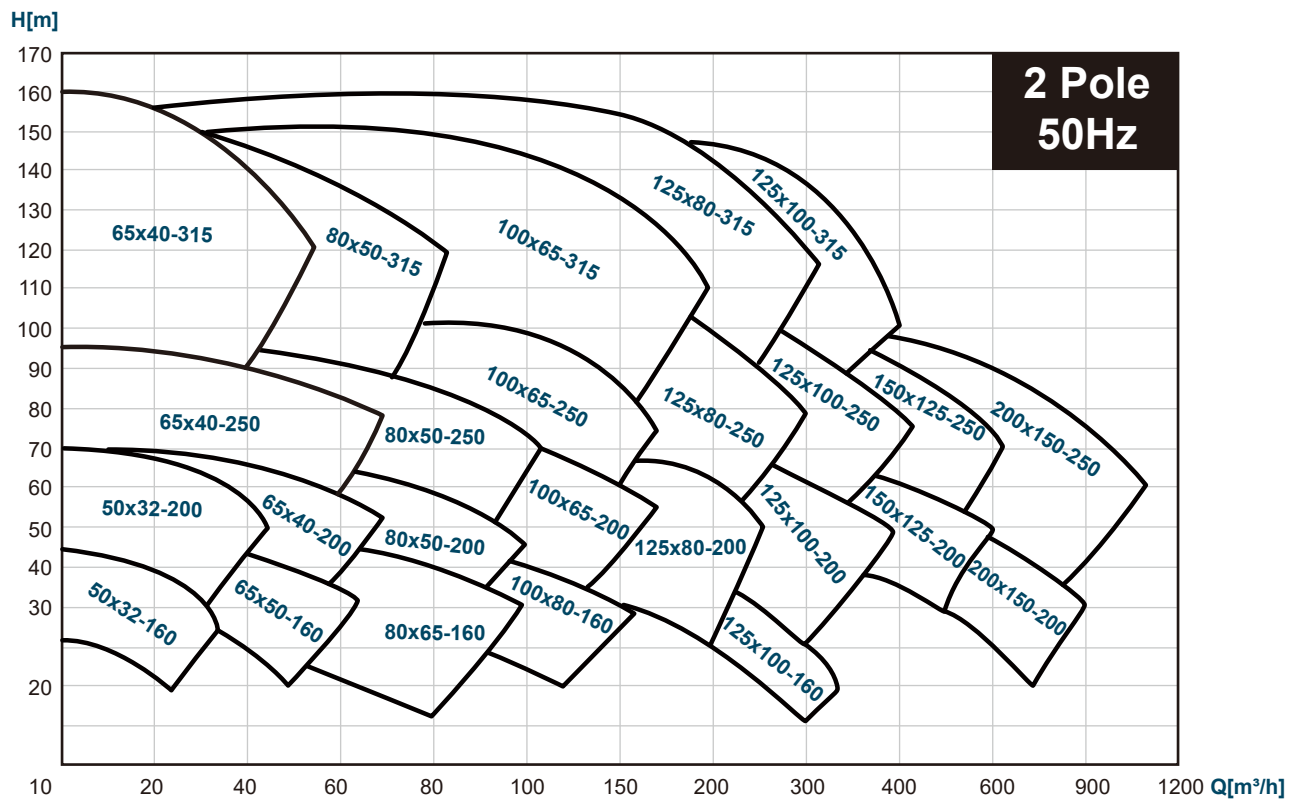
Model	Shaft	Pump Dimension					Mounting Dimension						Bolt Holes		Shaft End				Weight (Kg) / Material			
	NO.	a	f	h1	h2	b	m1	m2	n1	n2	n3	w	s1	s2	d	n	t	l	FCD	AISI 304	AISI 316	Duplex
50x32-160	1	80	385	132	160	50	100	70	240	190	110	285	ø14	ø14	ø24	8	27	50	33	36	36	38
50x32-200	1	80	385	160	180	50	100	70	240	190	110	285	ø14	ø14	ø24	8	27	50	41	46	48	50
65x40-200	1	100	385	160	180	50	100	70	265	212	110	285	ø14	ø14	ø24	8	27	50	41	45	47	49
65x40-250	2	100	500	180	225	65	125	95	320	250	110	370	ø14	ø14	ø32	10	35	80	59	65	69	72
65x40-315	2	125	500	200	250	65	125	95	345	280	110	370	ø14	ø14	ø32	10	35	80	88	88	87	91
65x50-160	1	80	385	132	160	50	100	70	240	190	110	285	ø14	ø14	ø24	8	27	50	35	38	38	40
80x50-200	1	100	385	160	200	50	100	70	265	212	110	285	ø14	ø14	ø24	8	27	50	43	47.5	53	56
80x50-250	2	125	500	180	225	65	125	95	320	250	110	370	ø14	ø14	ø32	10	35	80	61	67	72	76
80x50-315	2	125	500	225	280	65	125	95	345	280	110	370	ø14	ø14	ø32	10	35	80	90	90	89	93
80x65-160	1	100	385	160	180	50	100	70	265	212	110	285	ø14	ø14	ø24	8	27	50	39	45	42	44
100x65-200	2	100	500	180	225	65	125	95	320	250	110	370	ø14	ø14	ø32	10	35	80	51	55	67	70
100x65-250	2	125	500	200	250	80	160	120	360	280	110	370	ø19	ø14	ø32	10	35	80	67	75	79	83
100x65-315	2	125	526.5	225	280	80	160	120	400	315	110	370	ø19	ø14	ø42	12	45	110	92	98	98	103
100x80-160	1	100	385	160	200	65	125	95	280	212	110	285	ø14	ø14	ø24	8	27	50	42	46	50	53
125x100-160	2	125	500	200	280	65	125	95	345	280	110	370	ø14	ø14	ø32	10	35	80	65	72	73	77
125x100-200	2	125	500	200	280	80	160	120	360	280	110	370	ø19	ø14	ø32	10	35	80	69	75	75	79
125x100-250	3	140	526.5	225	280	80	160	120	400	315	110	370	ø19	ø14	ø42	12	45	110	78	88	92	97
125x100-315	3	140	526.5	250	315	80	160	120	400	315	110	370	ø19	ø14	ø42	12	45	110	97	108	108	113
125x100-400	3	140	526.5	280	355	100	200	150	500	400	110	370	ø23	ø14	ø42	12	45	110	145	165	165	173
125x80-200	2	125	500	180	250	65	125	95	345	280	110	370	ø14	ø14	ø32	10	35	80	59	66	72	76
125x80-250	2	125	500	225	280	80	160	120	400	315	110	370	ø19	ø14	ø32	10	35	80	71	78	80	84
125x80-315	2	125	526.5	250	315	80	160	120	400	315	110	370	ø19	ø14	ø42	12	45	110	94	102	102	107
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150x125-250	3	140	526.5	250	355	80	160	120	400	315	110	370	ø19	ø14	ø42	12	45	110	88	98	98	103
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200x150-200	2	160	500	280	400	100	200	150	500	400	110	370	ø23	ø14	ø32	10	35	80	120	132	132	139
200x150-250	3	160	526.5	280	375	100	200	150	500	400	110	370	ø23	ø14	ø42	12	45	110	127	142	142	149
200x150-315	3	160	670	315	400	100	200	150	550	450	140	500	ø23	ø19	ø48	14	51.5	110	178	195	195	205



Parts and Material List

No.	Part	Material	Material	Material	Material
		Cast Iron version	AISI 304 version	AISI 316 version	Duplex version
1	Bearing Housing	Cast Iron	Cast Iron	Cast Iron	Cast Iron
2	Shaft	AISI 316	AISI 316	AISI 316	Duplex
3	Bearing-Pully end	STEEL	STEEL	STEEL	STEEL
4	Bearing-Impeller End	STEEL	STEEL	STEEL	STEEL
5	Bearing Cover	Cast Iron	Cast Iron	Cast Iron	Cast Iron
6	Backplate	Cast Iron	AISI 304	AISI 316	Duplex
7	Impeller	Cast Iron	AISI 304	AISI 316	Duplex
8	Casing	Cast Iron	AISI 304	AISI 316	Duplex
9	Impeller Key	AISI 316	AISI 316	AISI 316	AISI 316
10	Casing plug	AISI 316	AISI 316	AISI 316	AISI 316
11	Dust Seal-Impeller end	NBR	NBR	NBR	NBR
12	Dust Seal-Pully End	NBR	NBR	NBR	NBR
13	Impeller Washer	Steel	Steel	Steel	Steel
14	Impeller Nut	Steel	Steel	Steel	Steel
15	Mechanical Seal	SIC/SIC Viton AISI 316	SIC/SIC Viton AISI 316	SIC/SIC Viton AISI 316	SIC/SIC Viton AISI 316
16	Support Foot	AISI 41 Steel	AISI 41 Steel	AISI 41 Steel	AISI 41 Steel
17	O-Ring	NBR	Viton	Viton	EPDM
18	Cover	Cast Iron	Cast Iron	Cast Iron	Cast Iron
19	Cover To Bearing Housing Bolt	Steel	Steel	Steel	Steel
20	Bearing Cover To Bearing Housing Bolt	Steel	Steel	Steel	Steel
21	Bearing Cover to Housing Spring Washer	Steel	Steel	Steel	Steel
22	Backplate to Casing Bolt	Steel	Steel	Steel	Steel
23	Backplate to Casing Spring Washer	Steel	Steel	Steel	Steel
24	Bearing Housing to Backplate bolt	Steel	Steel	Steel	Steel
25	Bearing Housing to Backplate Spring Washer	Steel	Steel	Steel	Steel
26	Support Foot to Bearing Housing Bolt	Steel	Steel	Steel	Steel
27	Support Foot to Bearing Housing Spring Washer	Steel	Steel	Steel	Steel
28	Support Foot to Bearing Housing Nut	Steel	Steel	Steel	Steel

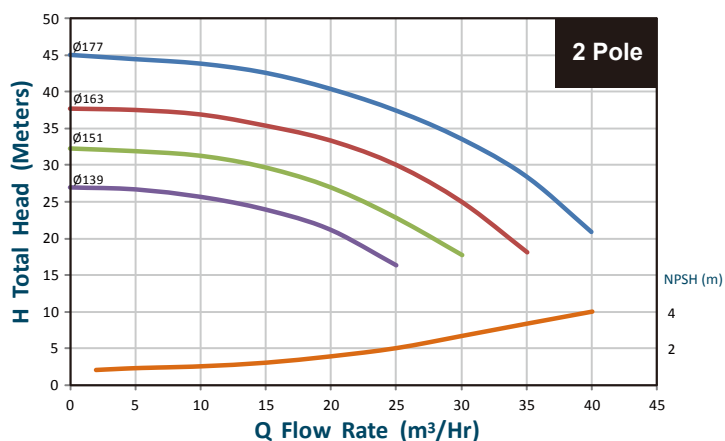
Pump Selection Table for End Suction Pumps



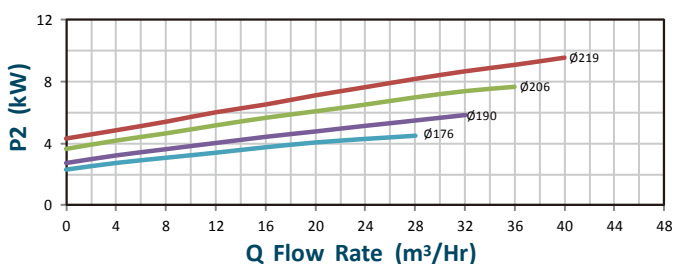
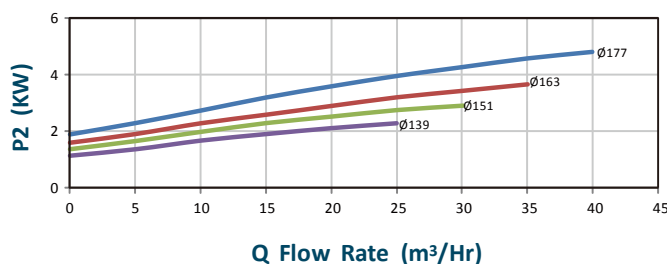
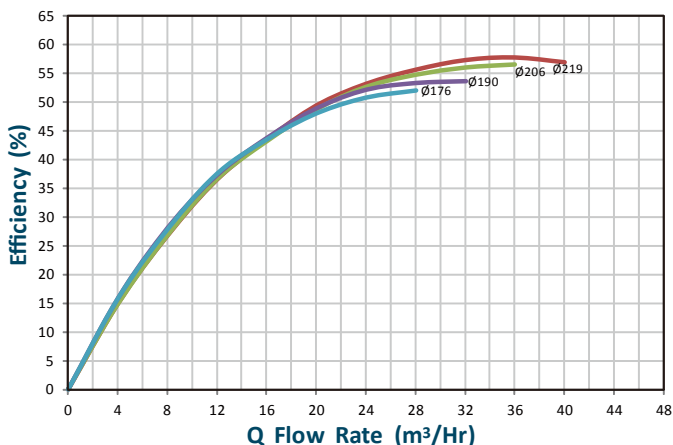
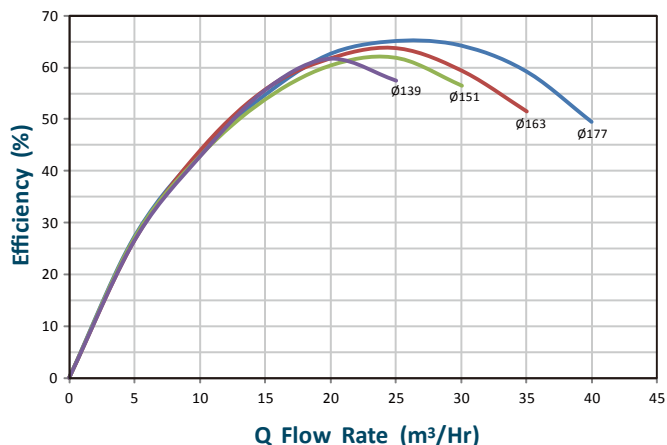
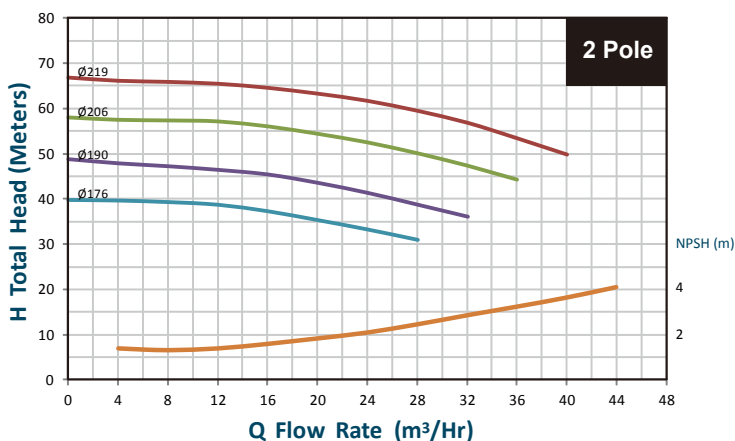
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End Suction Centrifugal Pump

50x32-160 Performance Curve



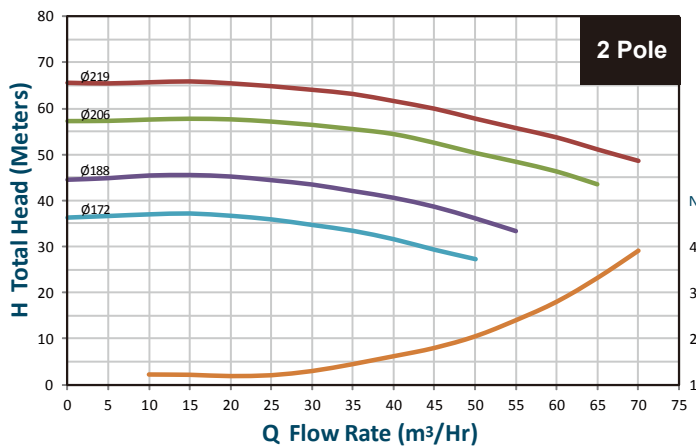
50x32-200 Performance Curve



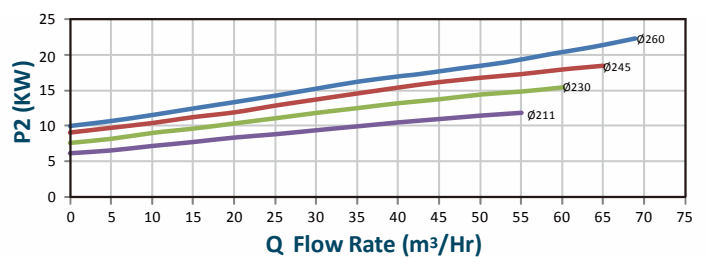
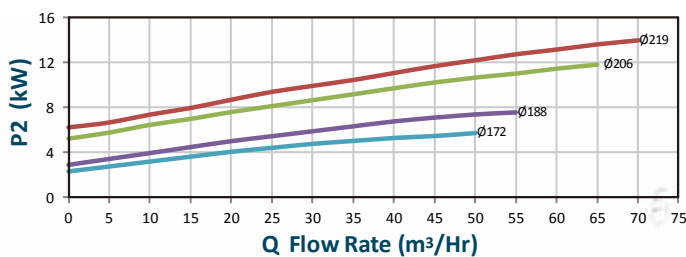
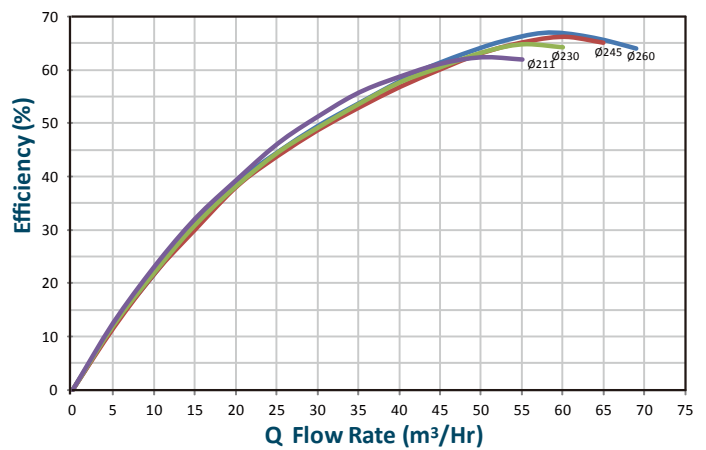
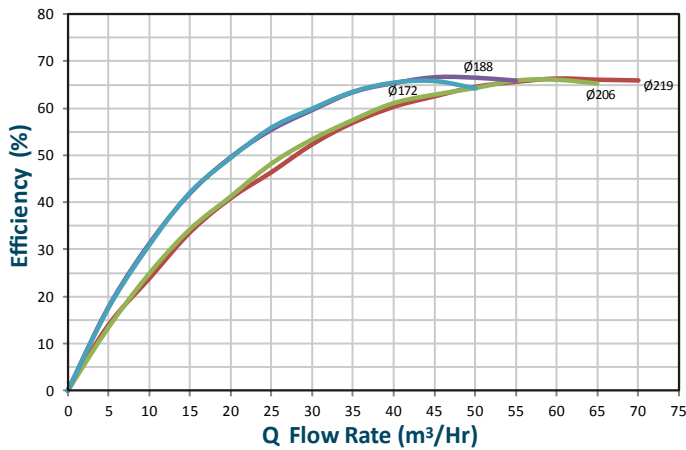
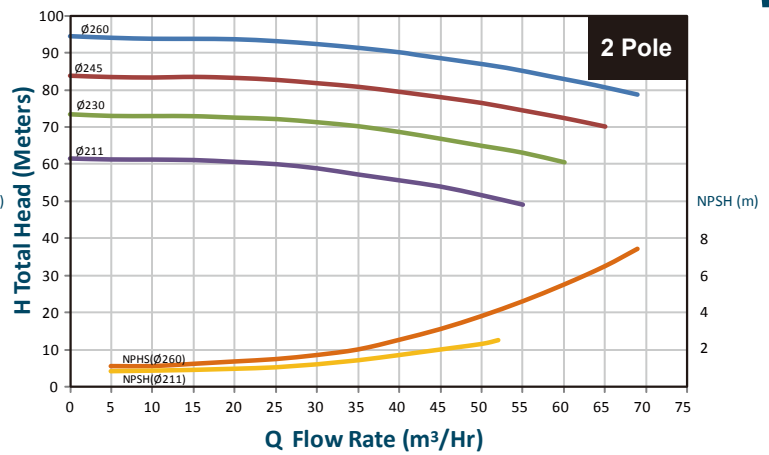
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End Suction Centrifugal Pump

65x40-200 Performance Curve



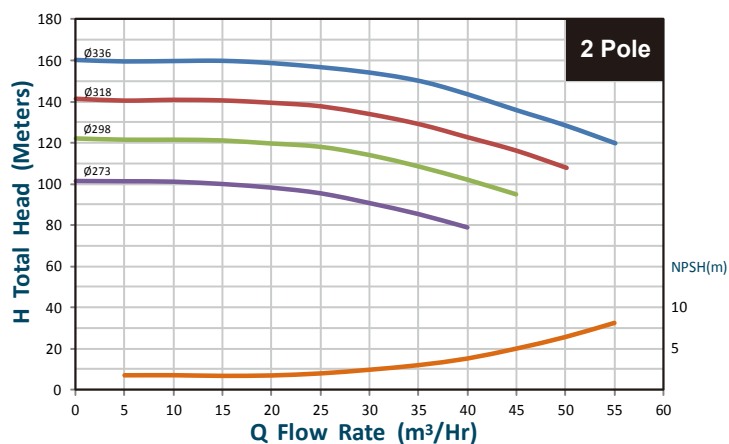
65x40-250 Performance Curve



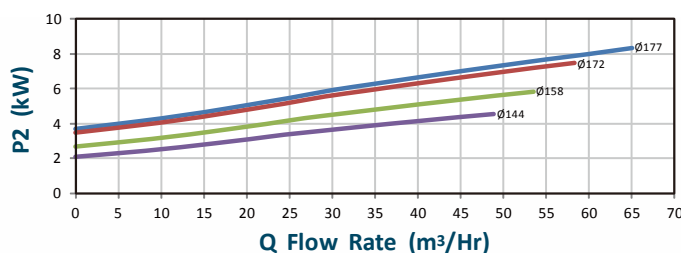
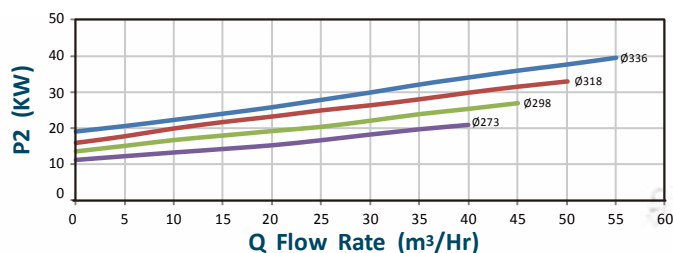
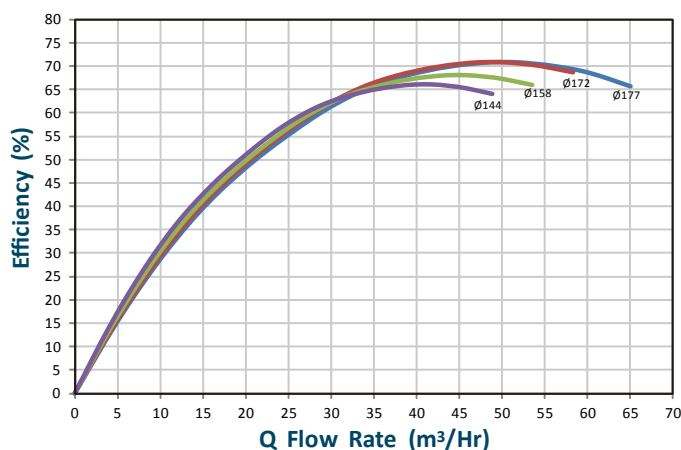
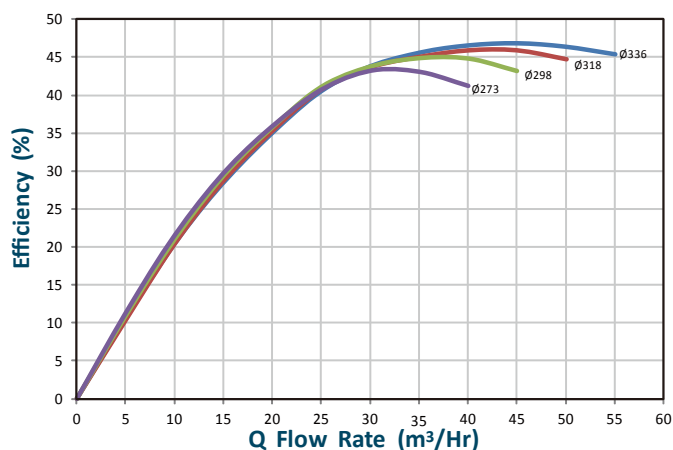
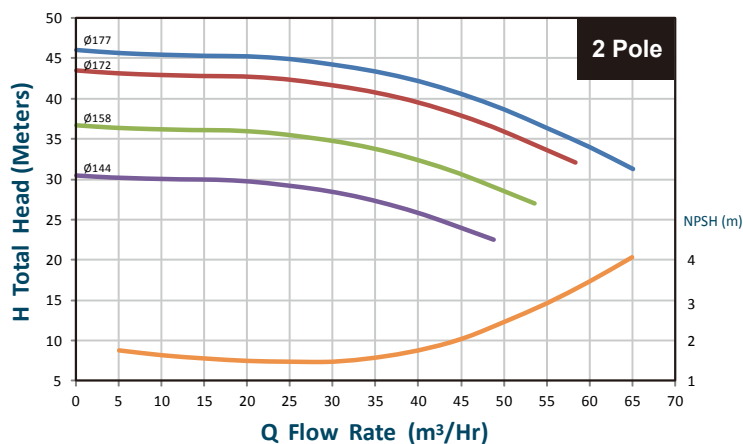
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End Suction Centrifugal Pump

65x40-315 Performance Curve



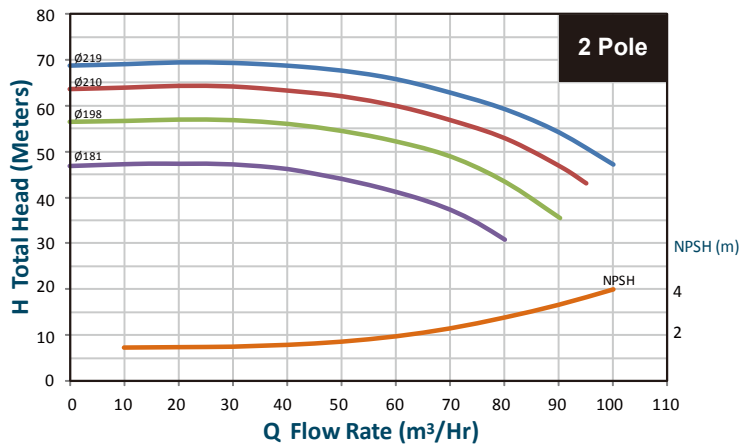
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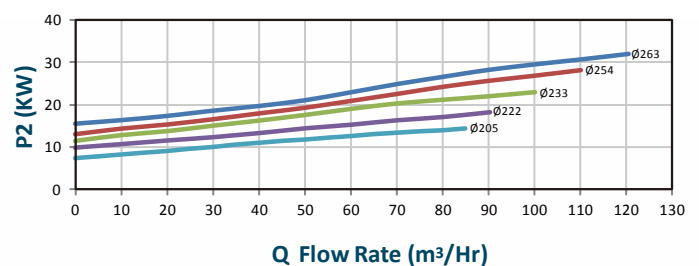
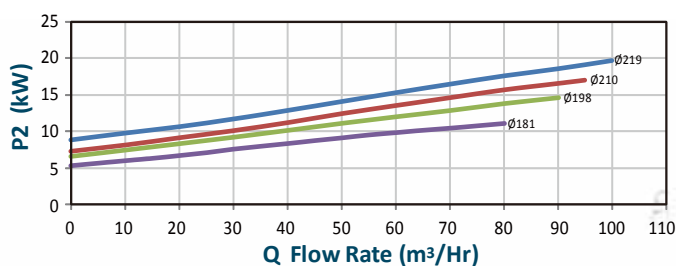
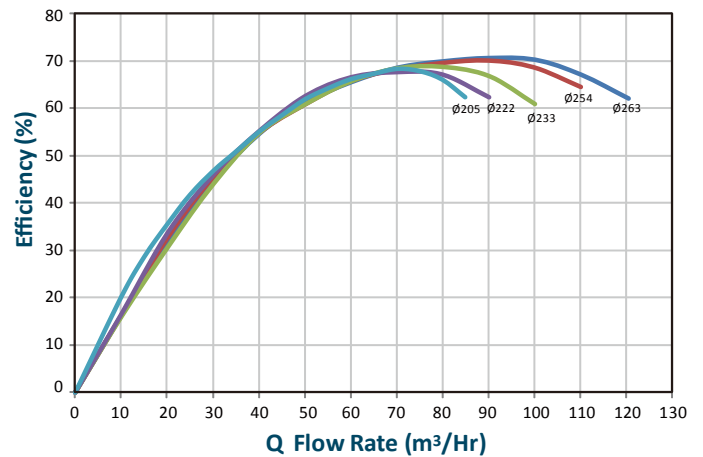
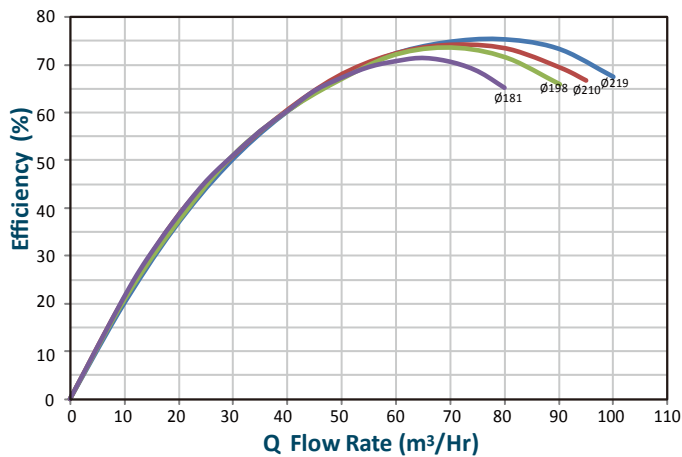
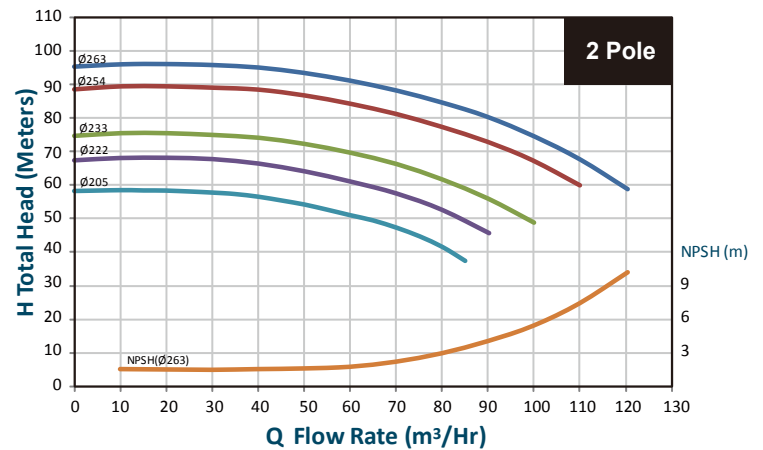
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End Suction Centrifugal Pump

80x50-200 Performance Curve



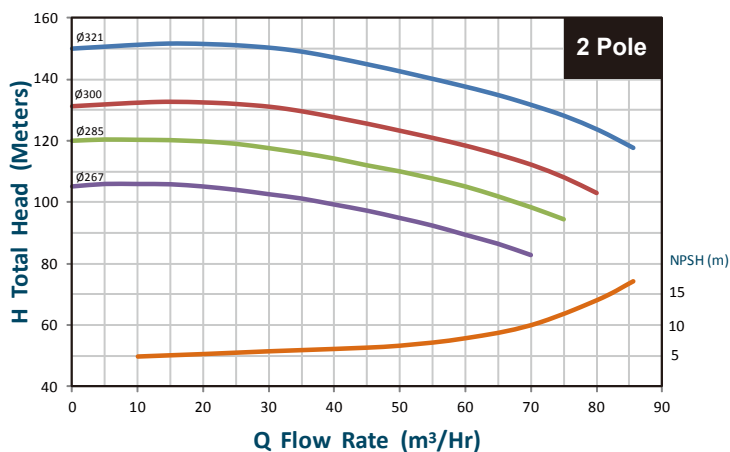
80x50-250 Performance Curve



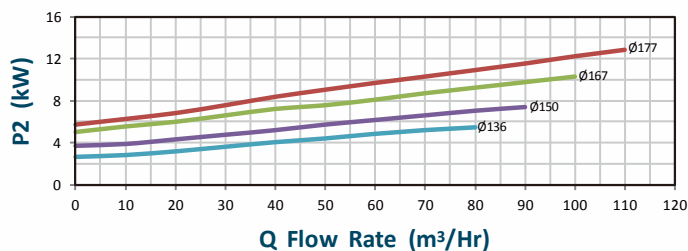
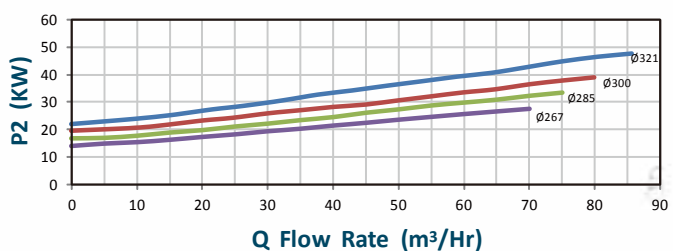
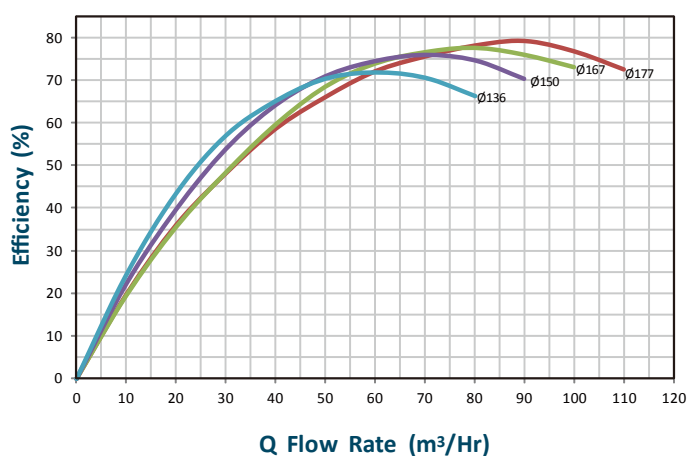
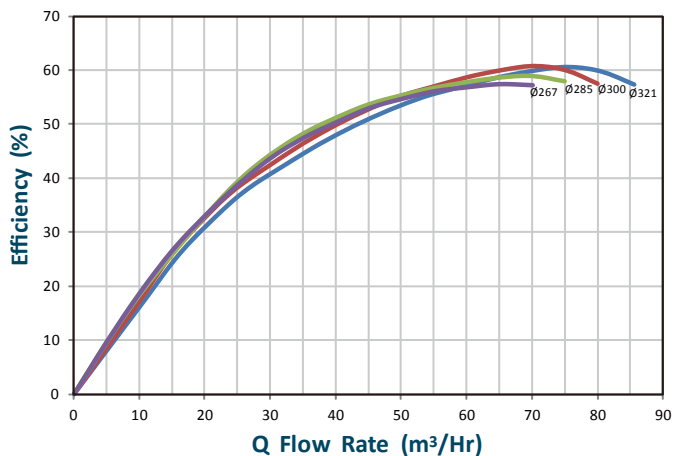
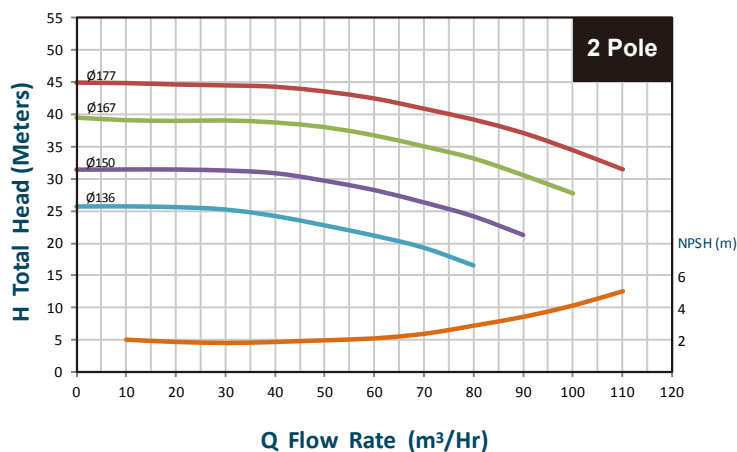
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End Suction Centrifugal Pump

80x50-315 Performance Curve



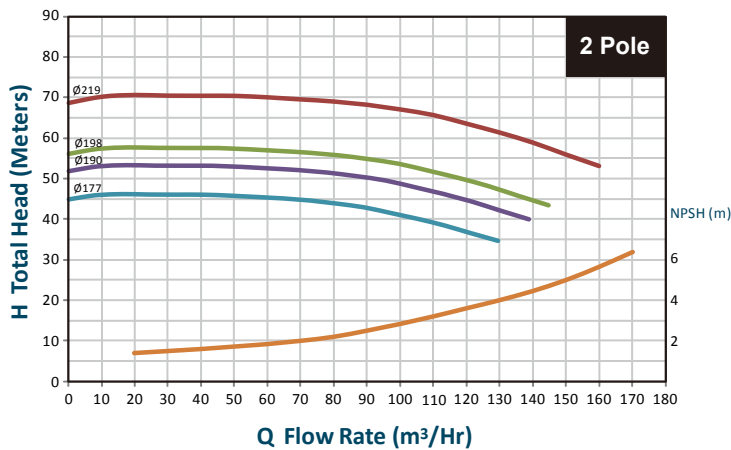
80x65-160 Performance Curve



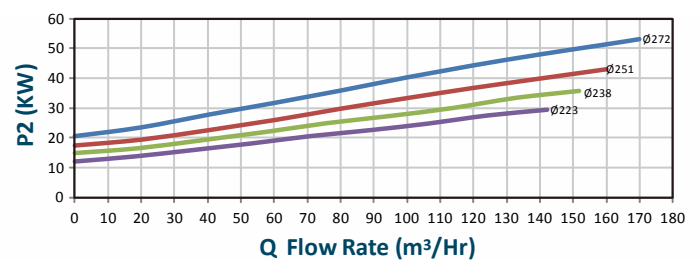
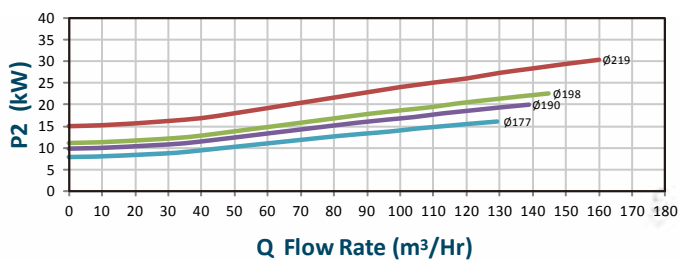
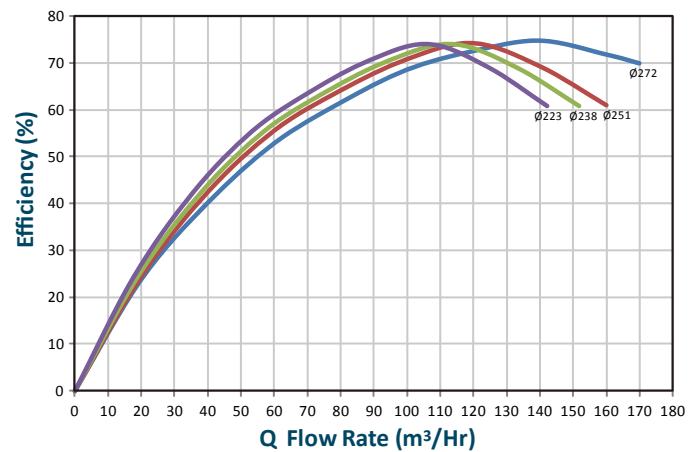
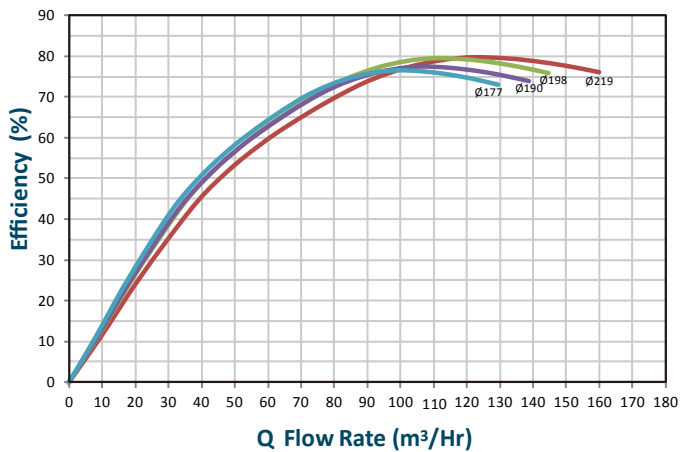
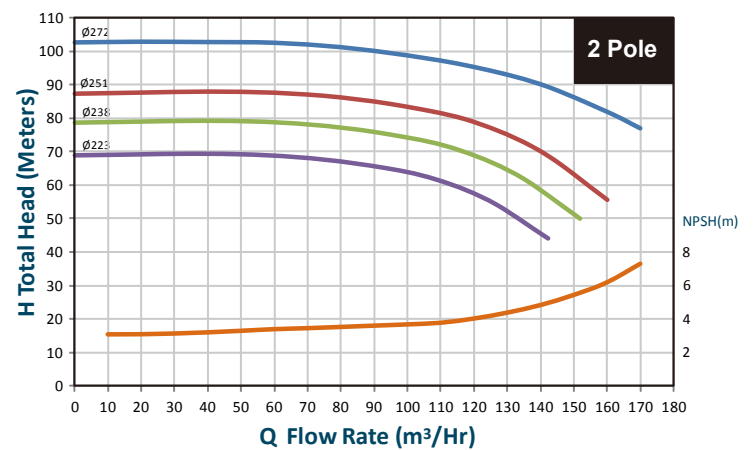
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End Suction Centrifugal Pump

100x65-200 Performance Curve



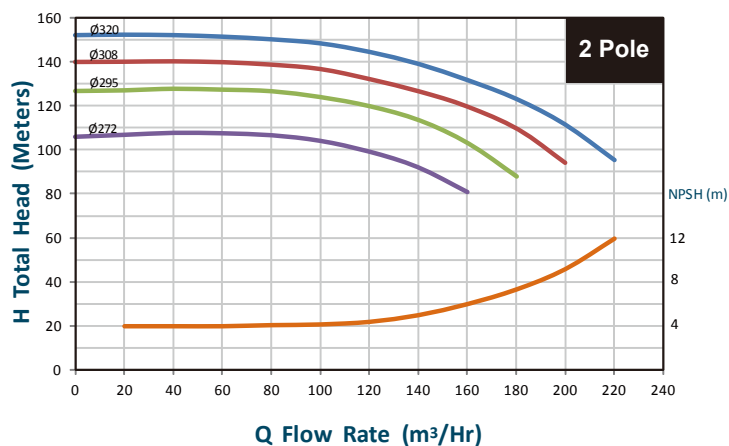
100x65-250 Performance Curve



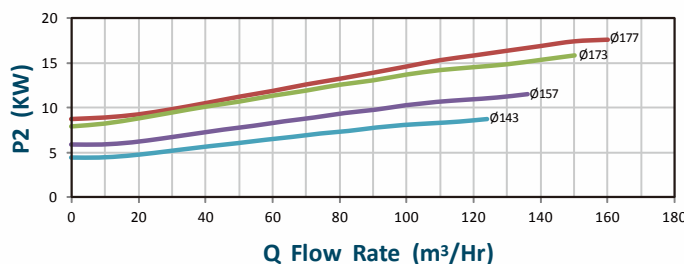
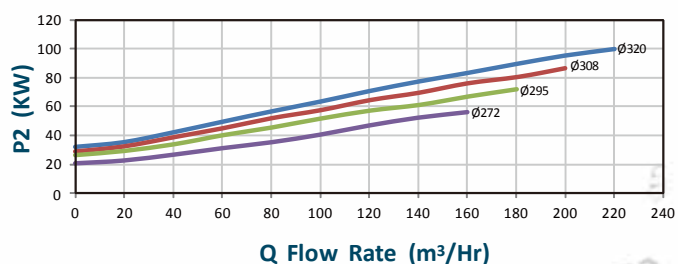
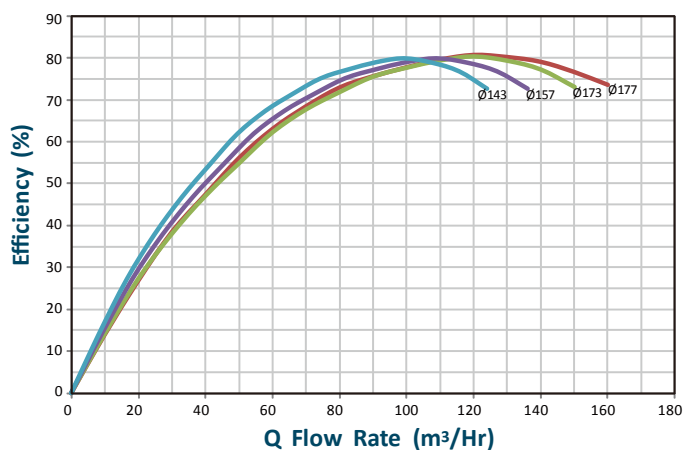
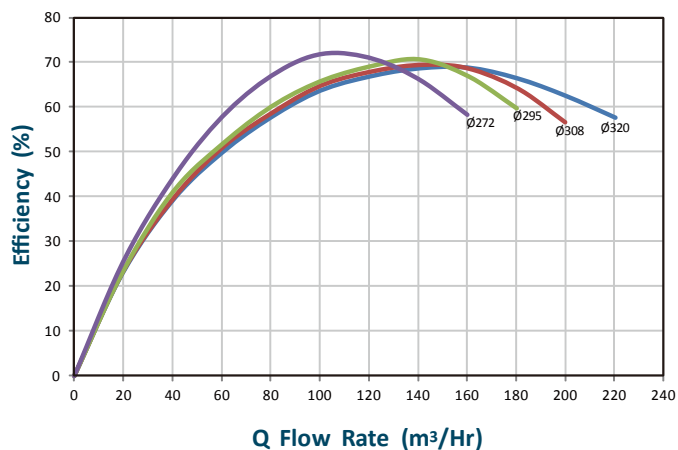
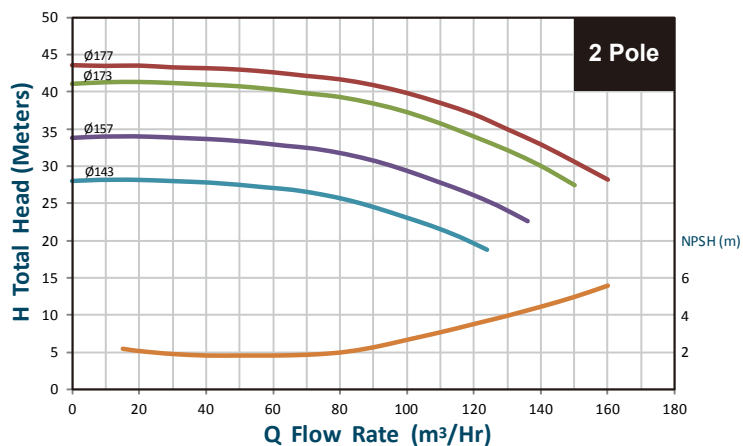
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End Suction Centrifugal Pump

100x65-315 Performance Curve



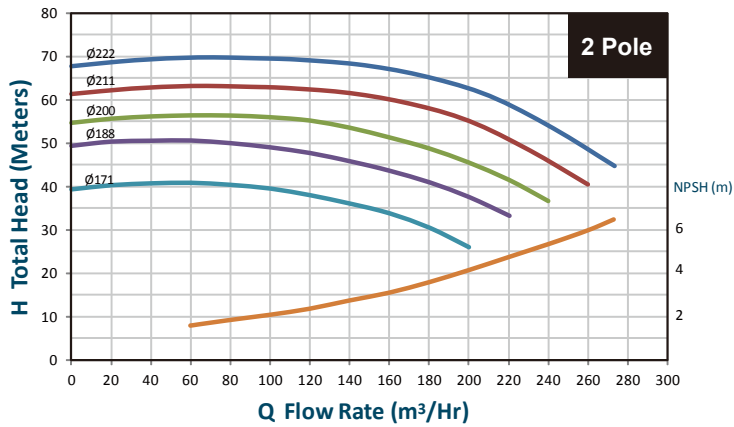
100x80-160 Performance Curve



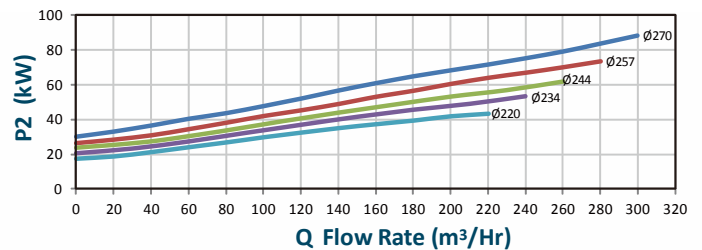
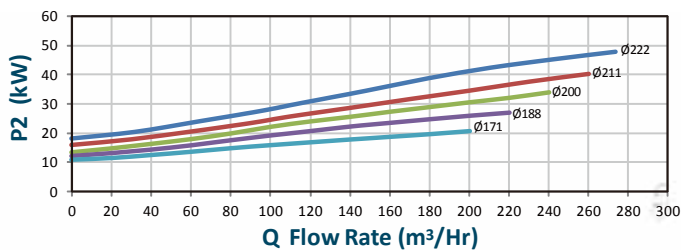
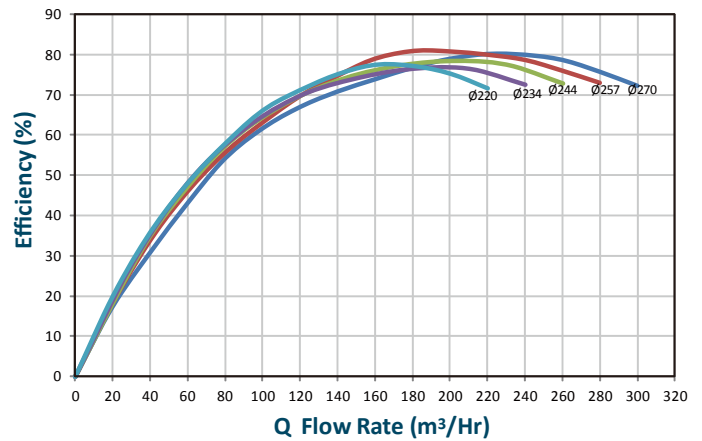
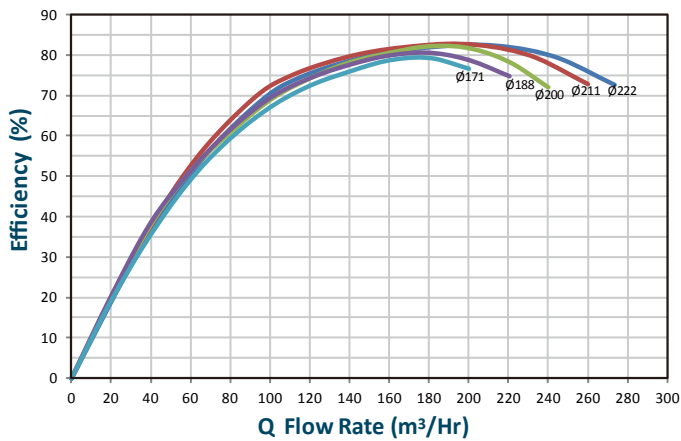
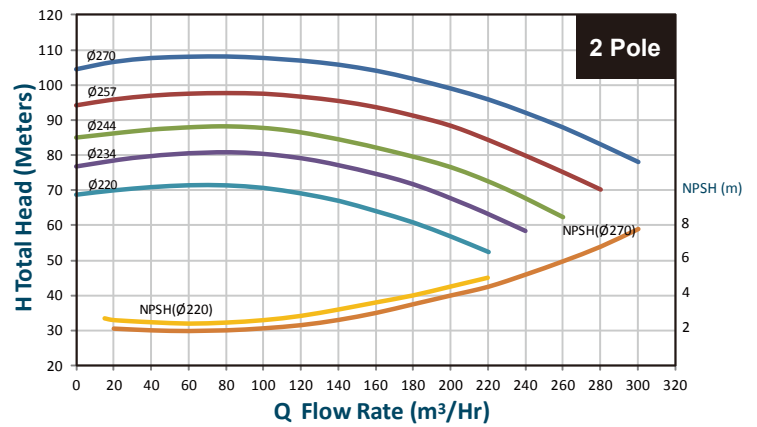
AES SERIES 50HZ

End Suction Centrifugal Pump

125x80-200 Performance Curve



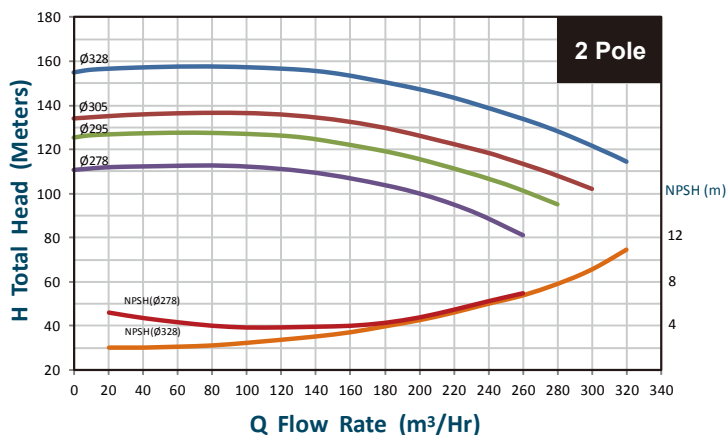
125x80-250 Performance Curve



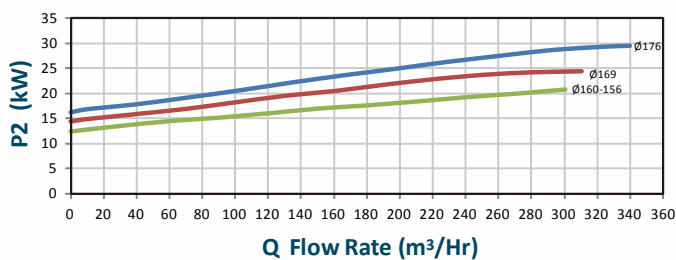
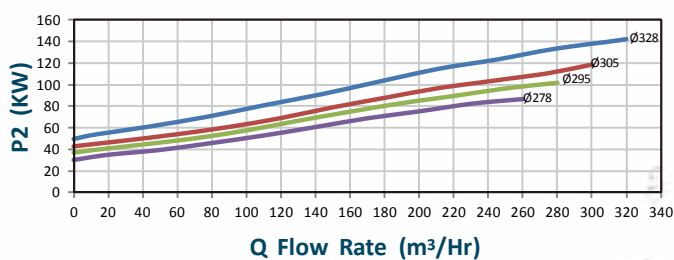
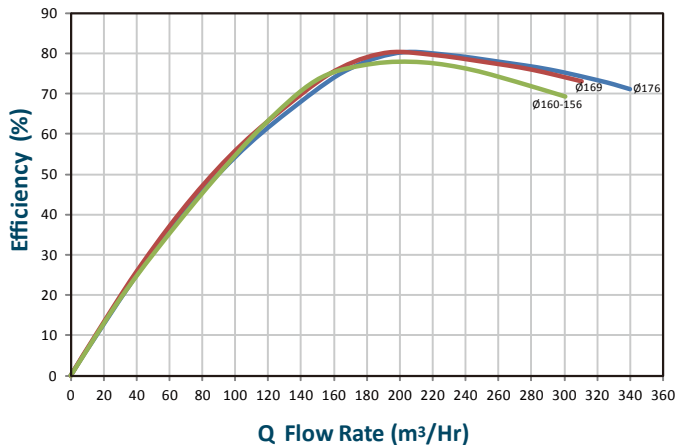
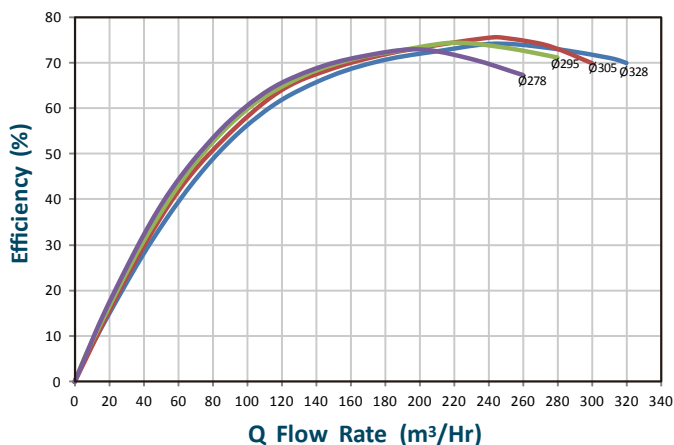
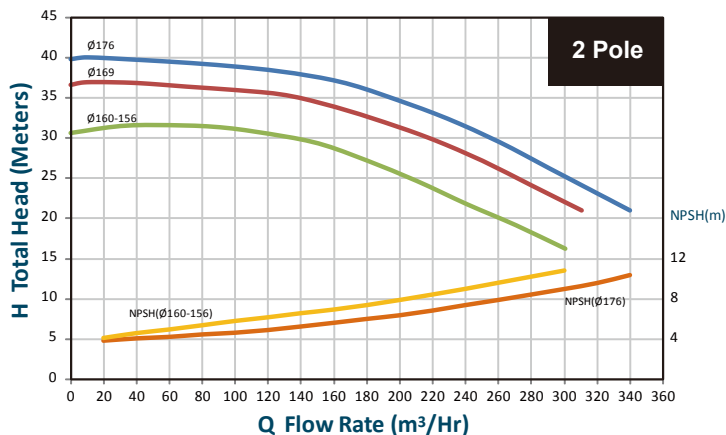
AES SERIES 50HZ

End Suction Centrifugal Pump

125x80-315 Performance Curve



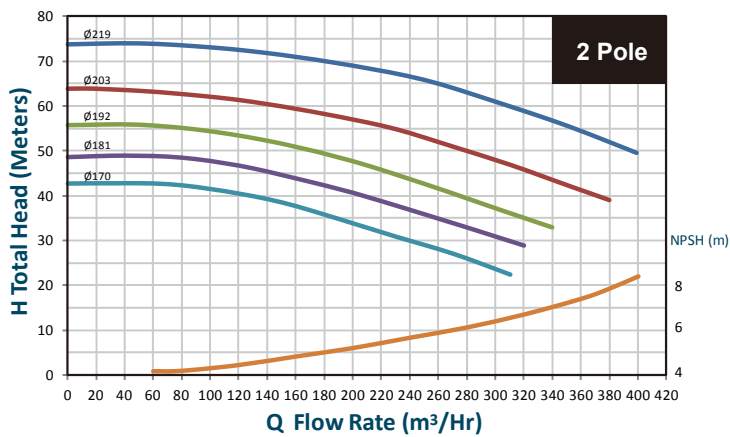
125x100-160 Performance Curve



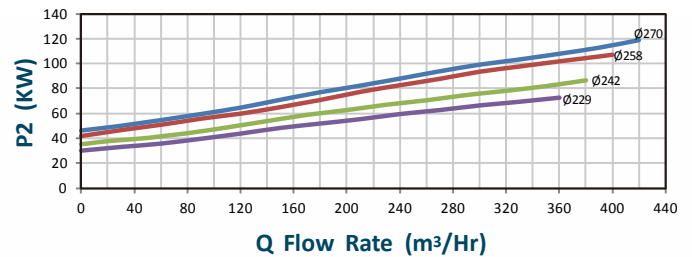
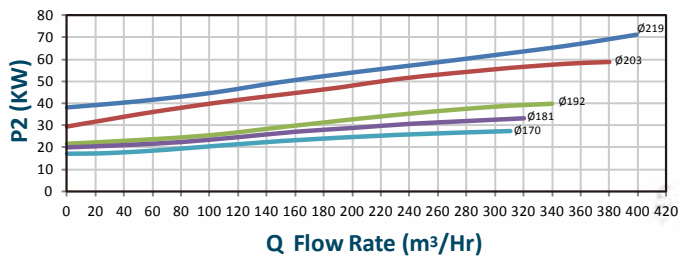
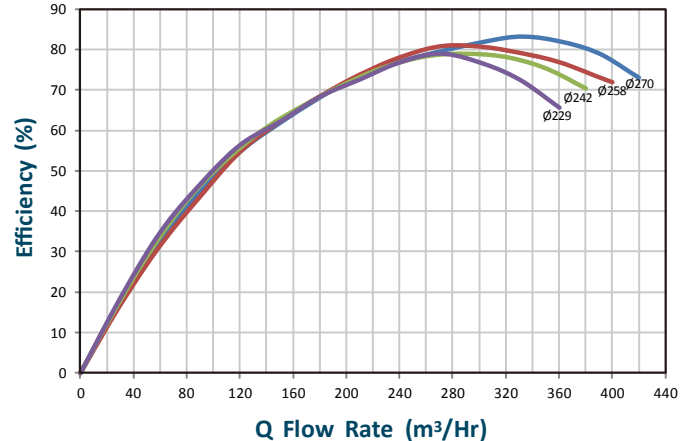
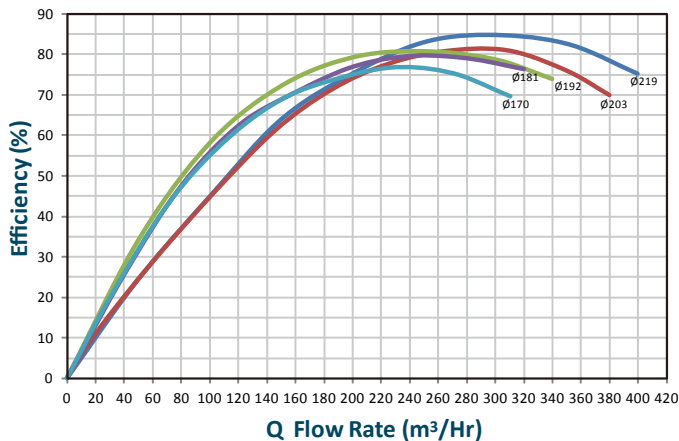
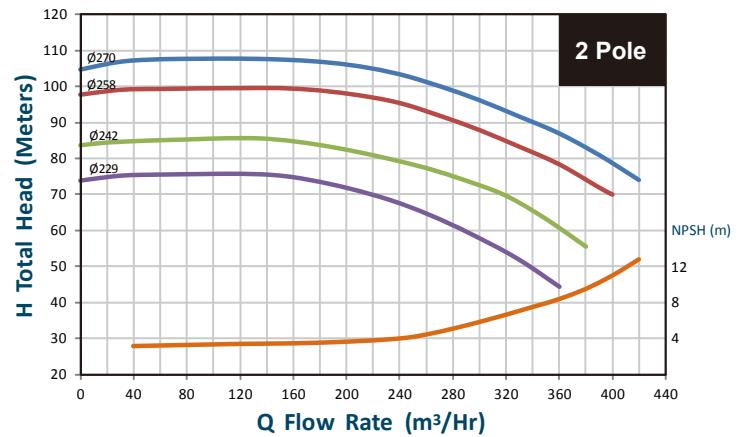
AES SERIES 50HZ

End Suction Centrifugal Pump

125x100-200 Performance Curve



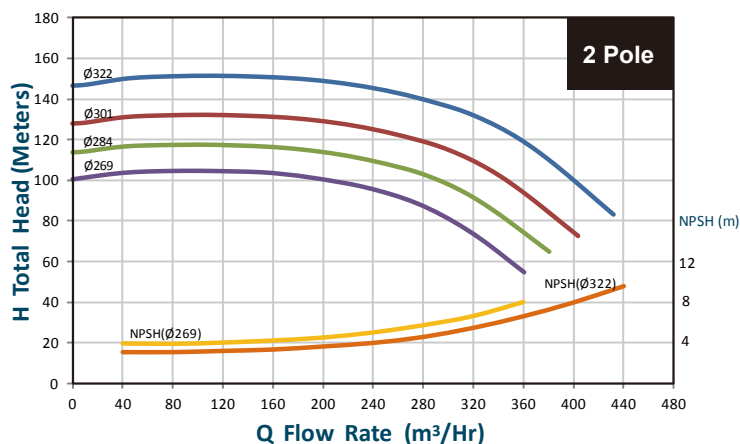
125x100-250 Performance Curve



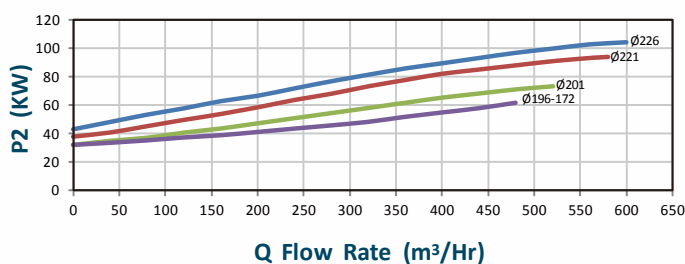
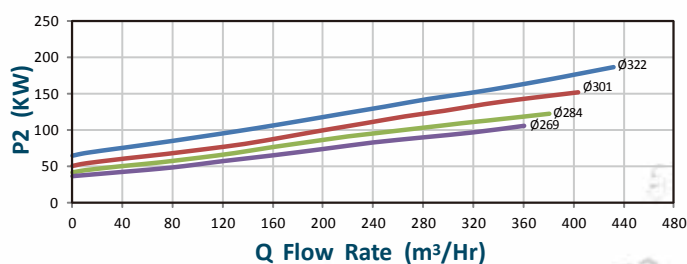
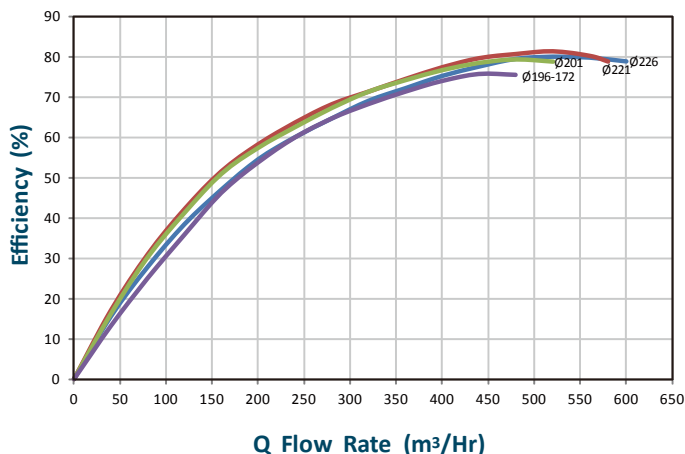
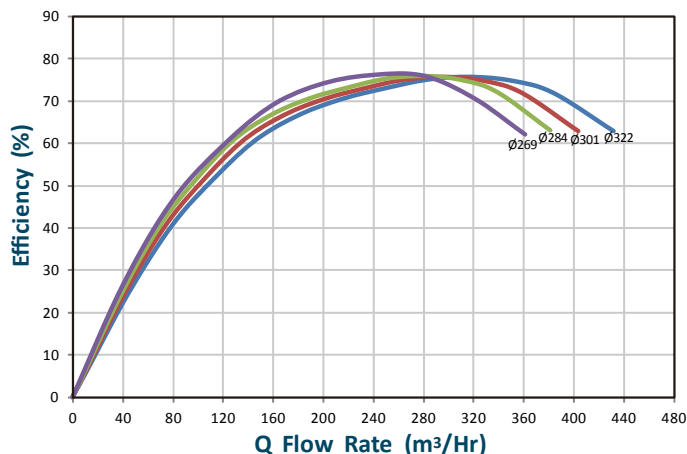
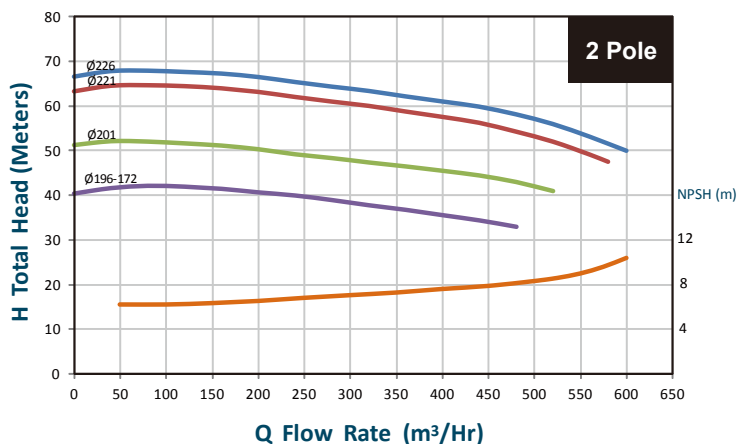
AES SERIES 50HZ

End Suction Centrifugal Pump

125x100-315 Performance Curve



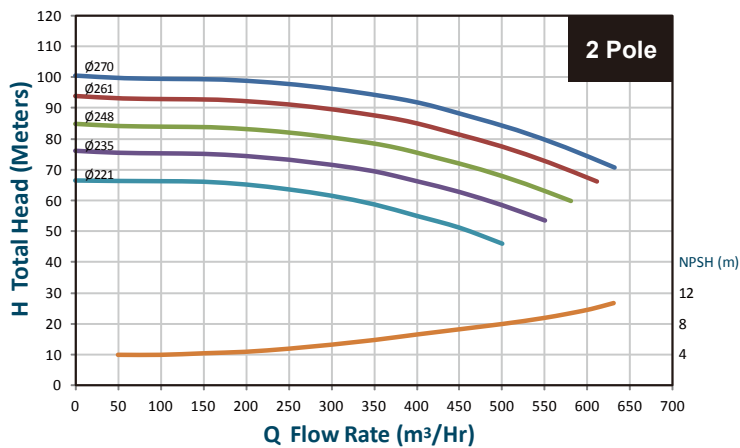
150x125-200 Performance Curve



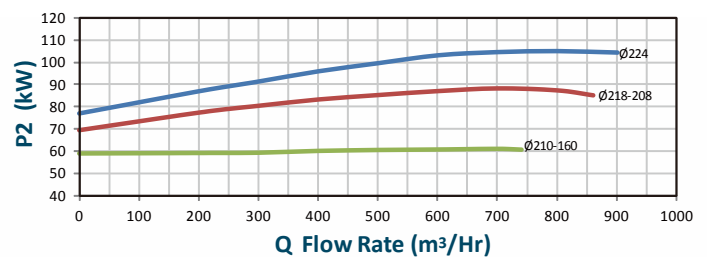
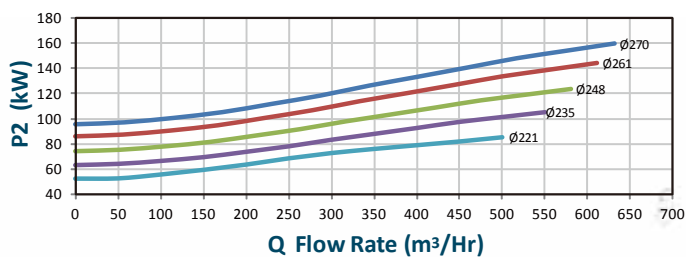
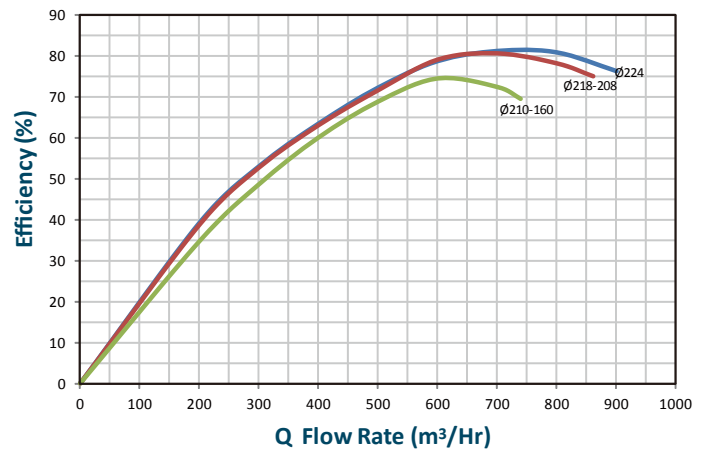
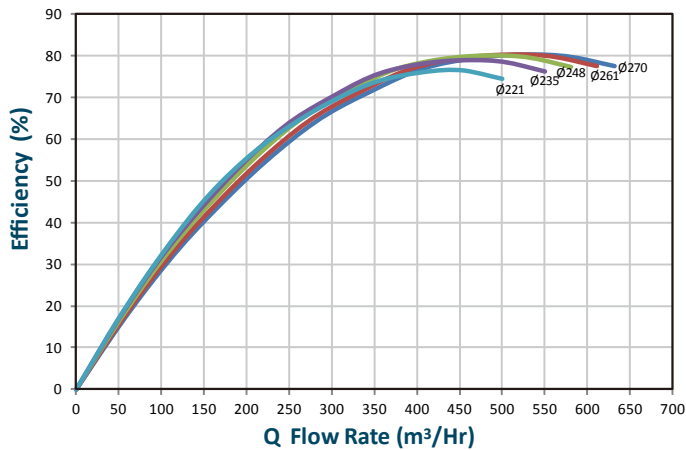
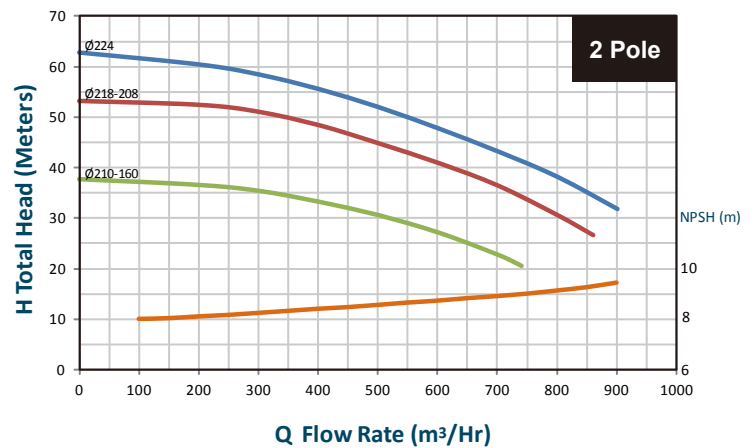
AES SERIES 50HZ

End Suction Centrifugal Pump

150x125-250 Performance Curve



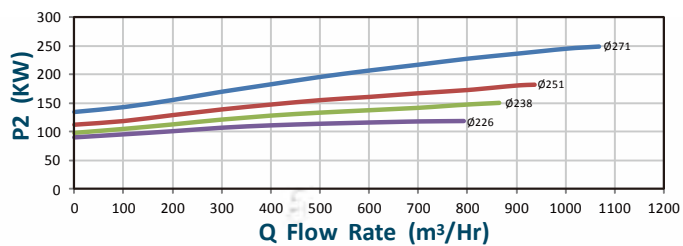
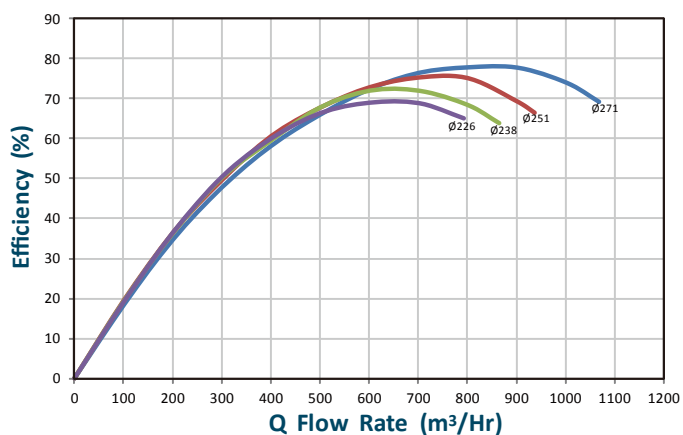
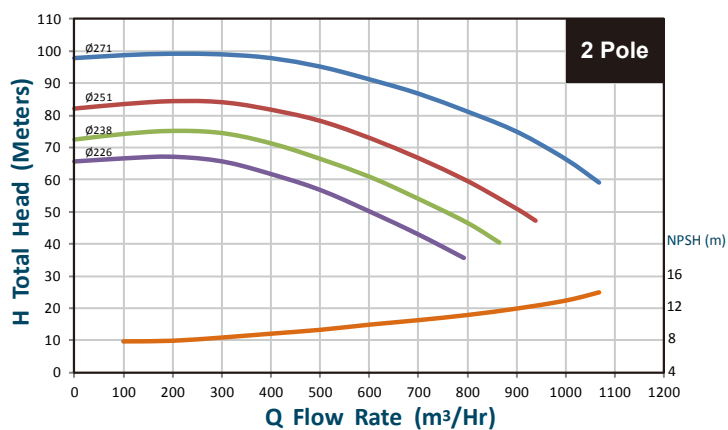
200x150-200 Performance Curve



AES SERIES 50HZ

End Suction Centrifugal Pump

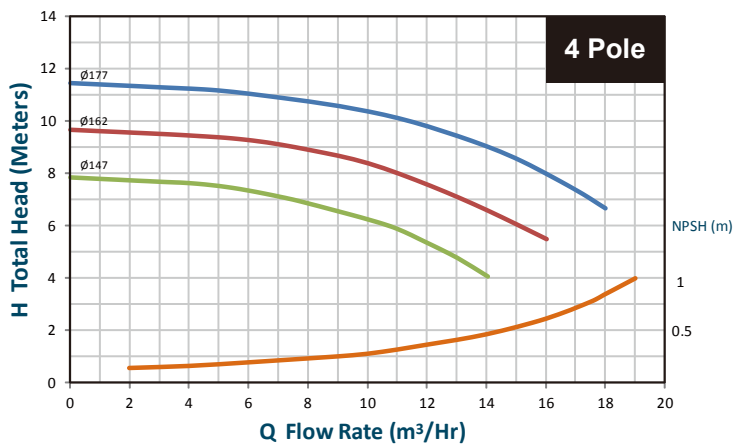
200x150-250 Performance Curve



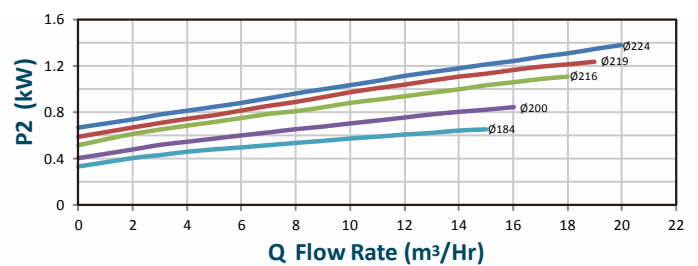
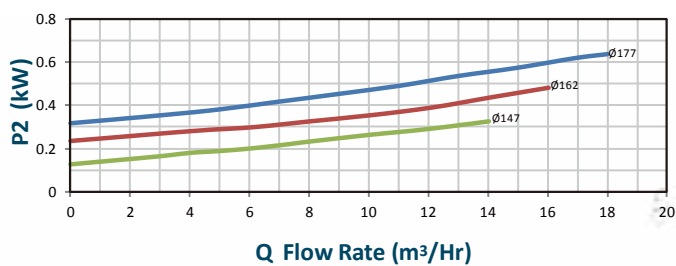
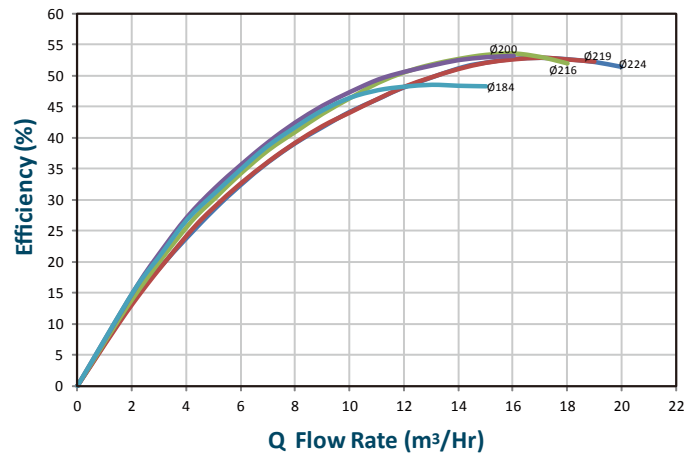
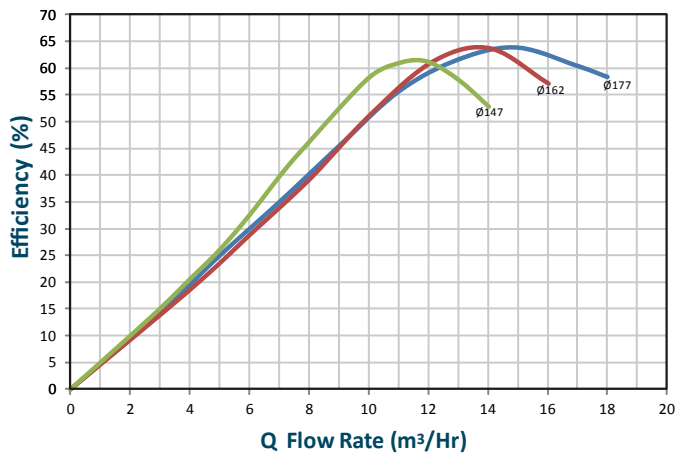
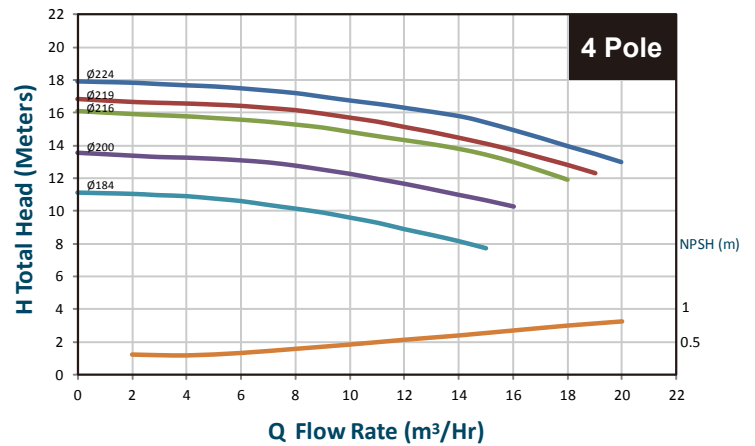
AES SERIES 50HZ

End Suction Centrifugal Pump

50x32-160 Performance Curve



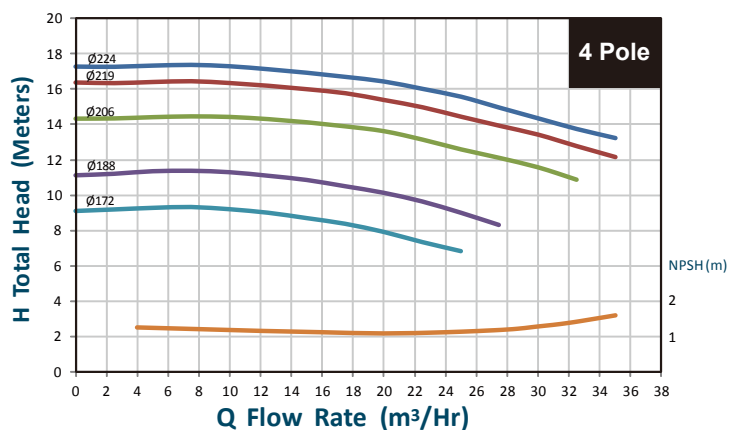
50x32-200 Performance Curve



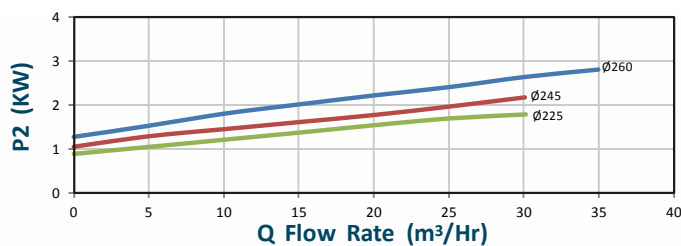
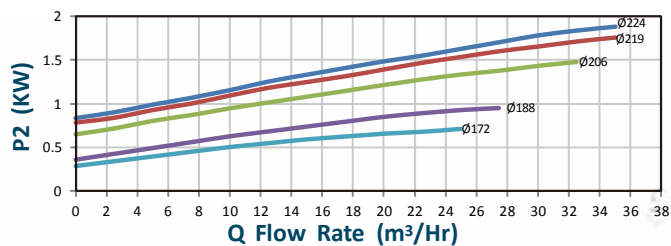
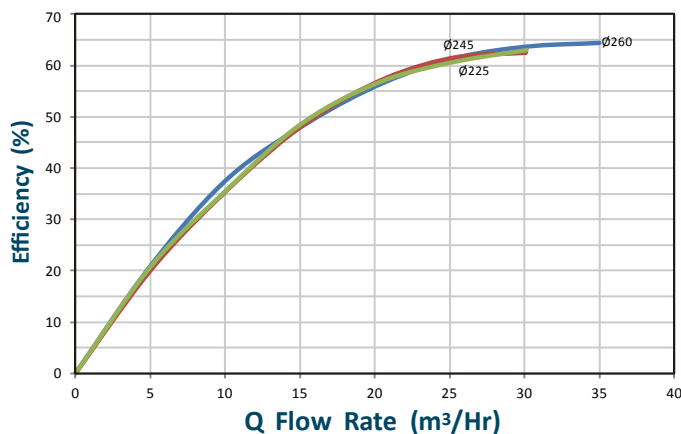
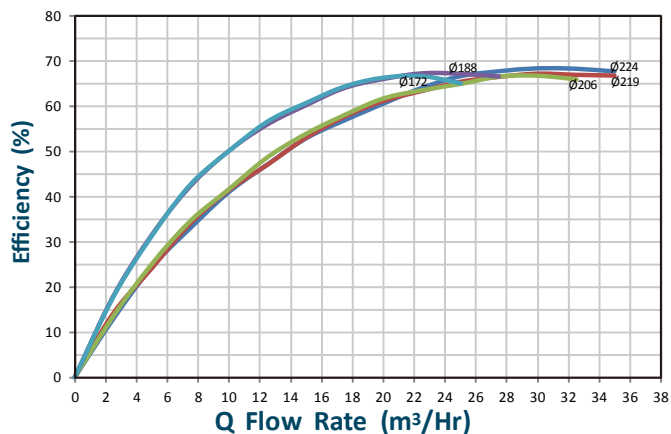
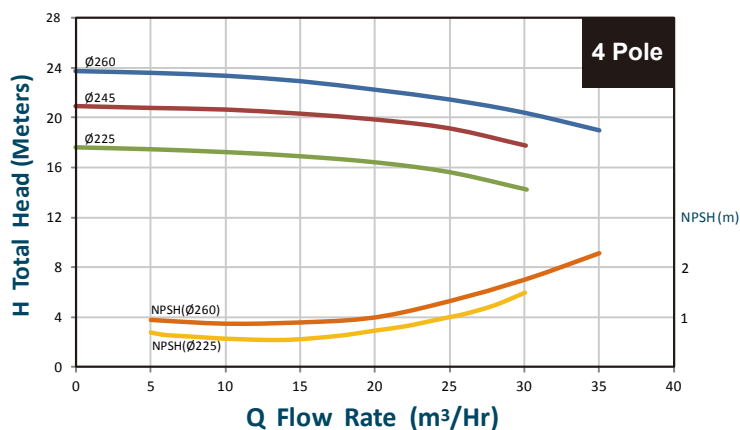
AES SERIES 50HZ

End Suction Centrifugal Pump

65x40-200 Performance Curve



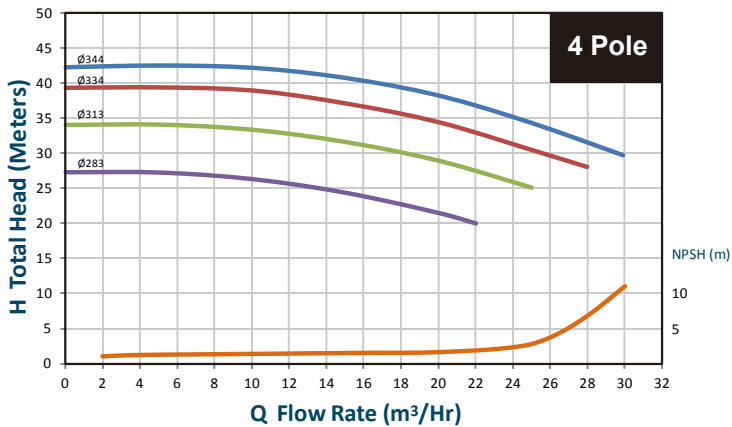
65x40-250 Performance Curve



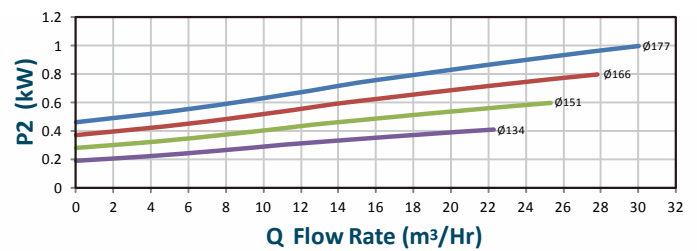
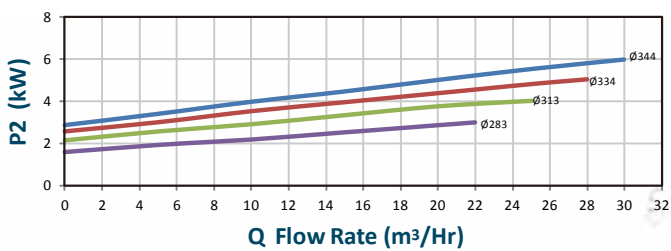
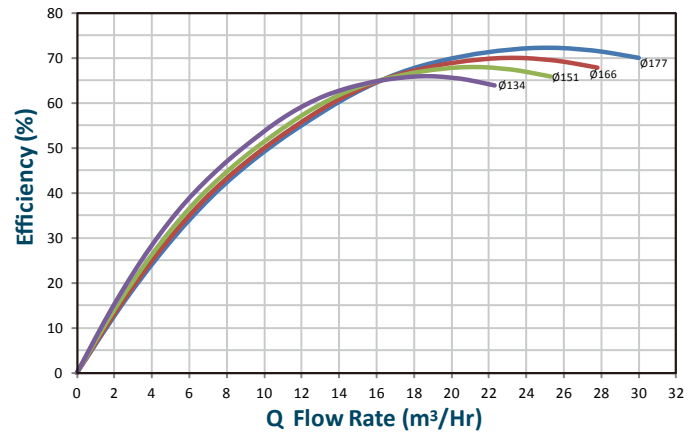
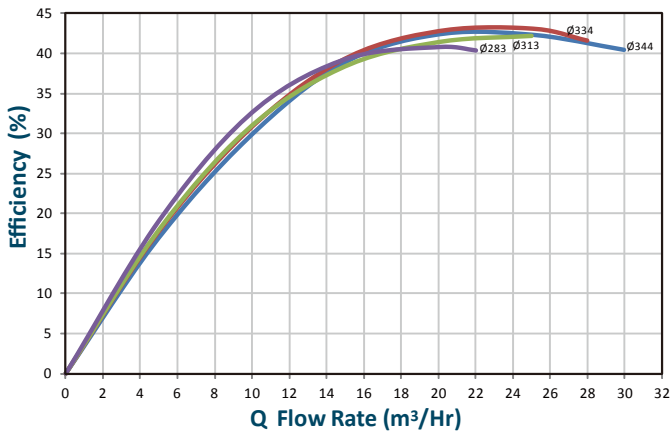
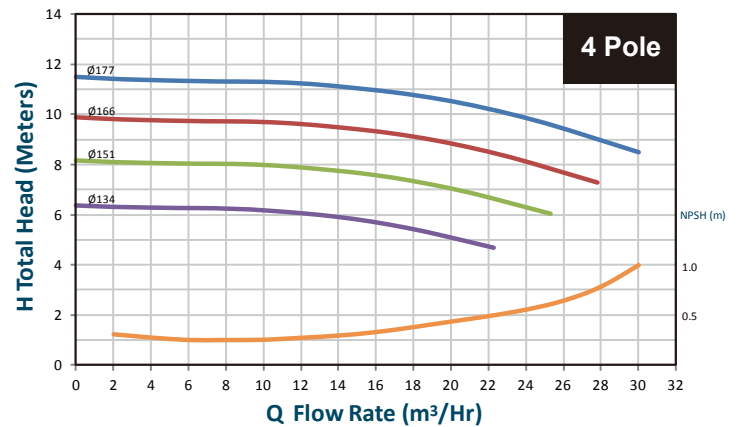
AES SERIES 50HZ

End Suction Centrifugal Pump

65x40-315 Performance Curve



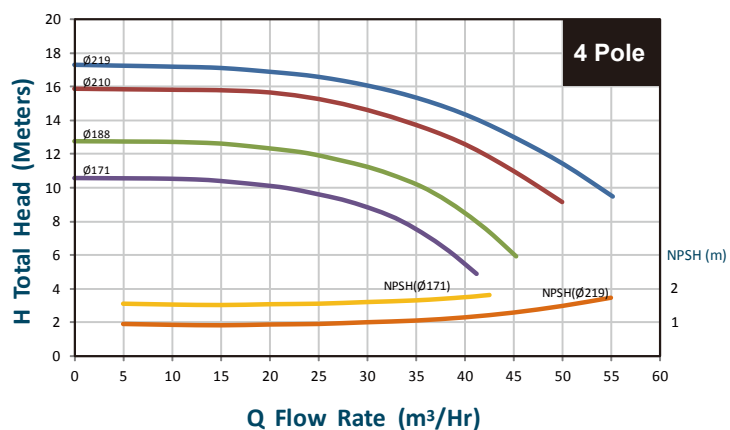
65x50-160 Performance Curve



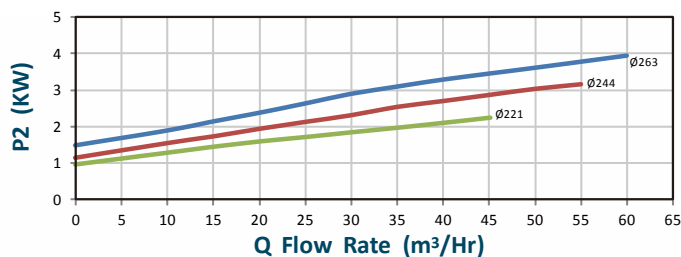
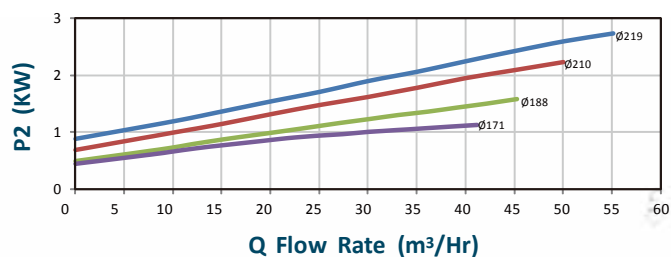
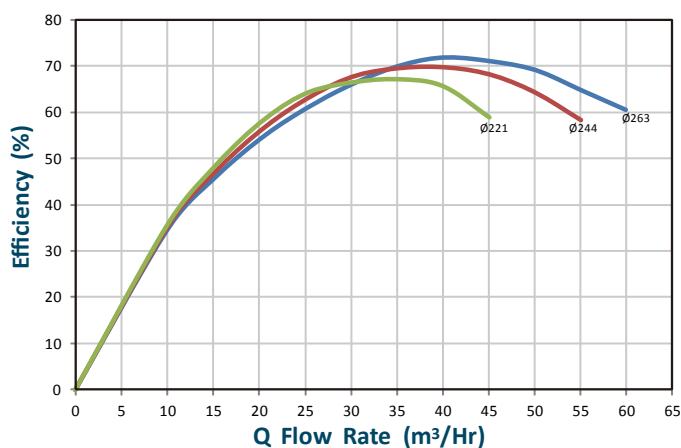
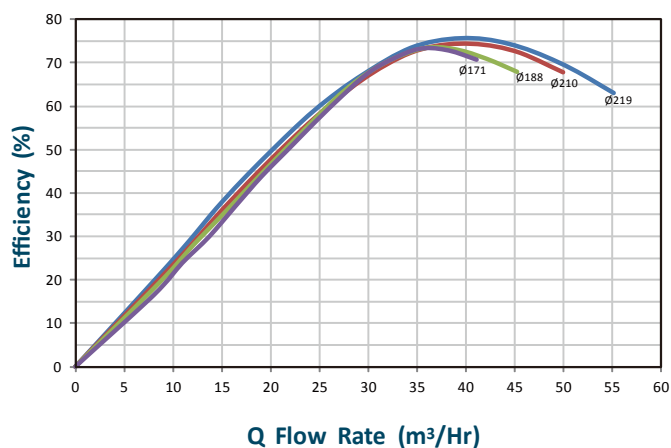
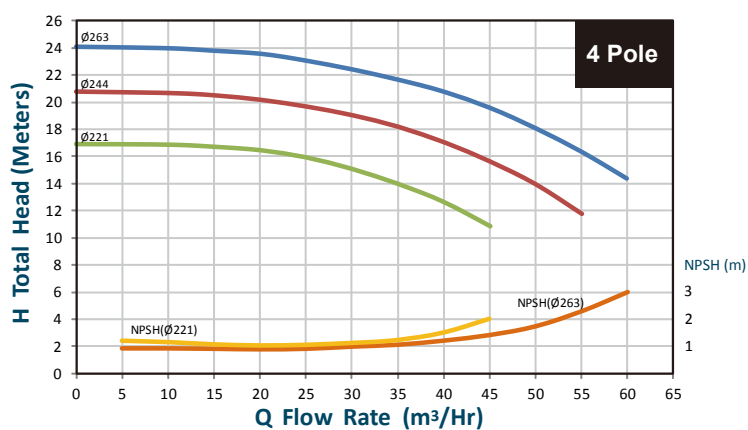
AES SERIES 50HZ

End Suction Centrifugal Pump

80x50-200 Performance Curve



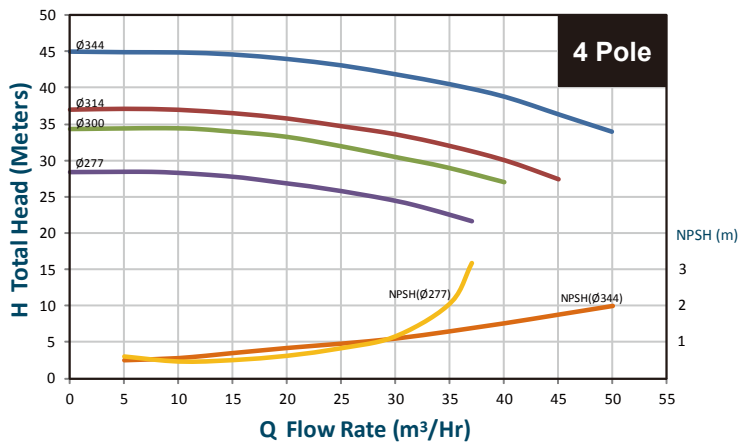
80x50-250 Performance Curve



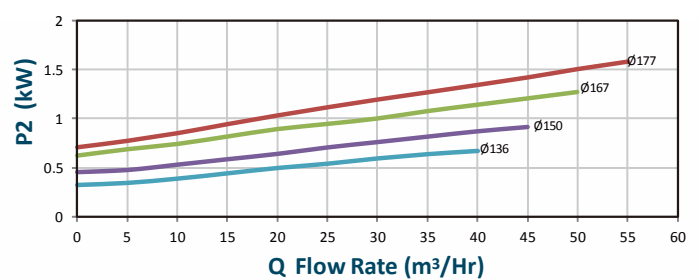
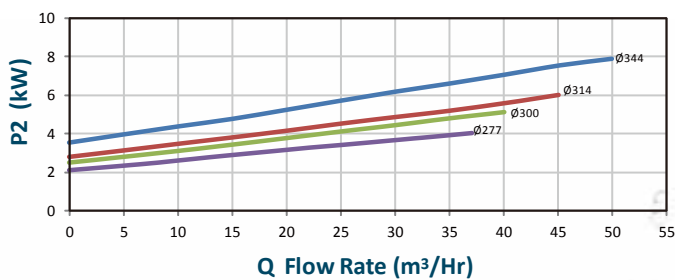
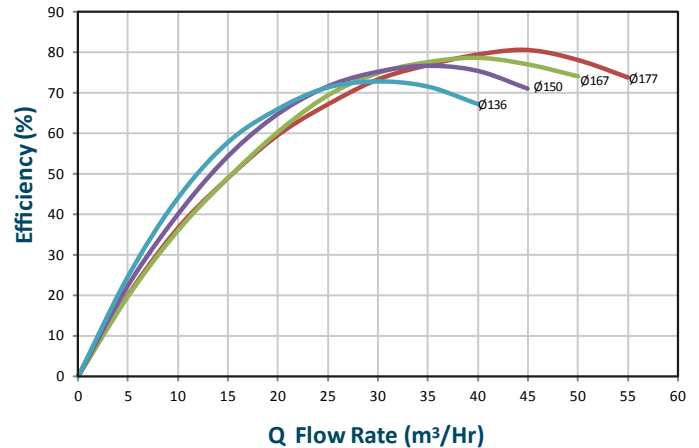
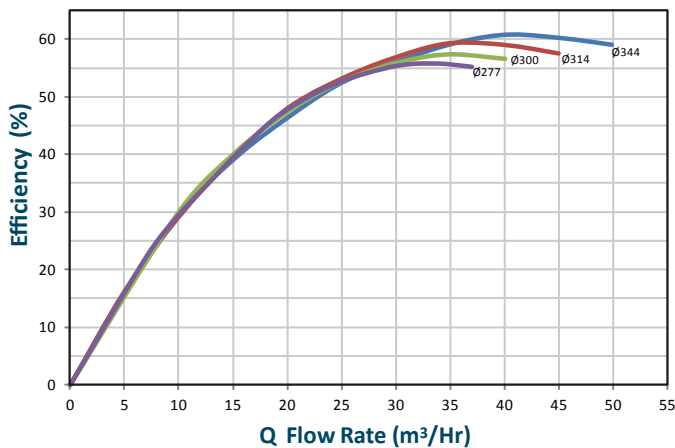
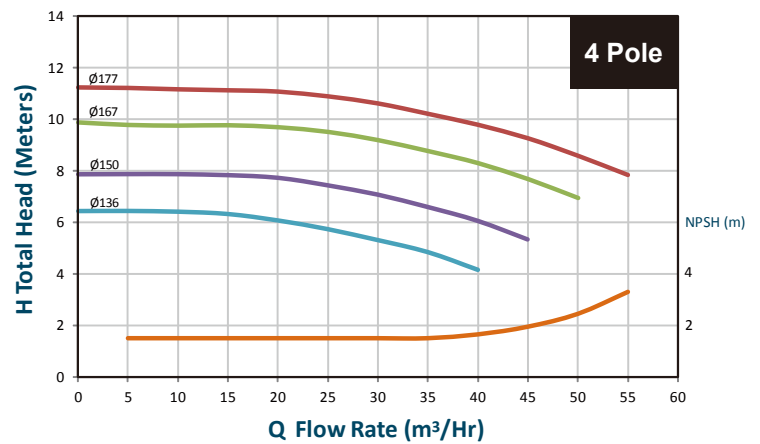
AES SERIES 50HZ

End Suction Centrifugal Pump

80x50-315 Performance Curve



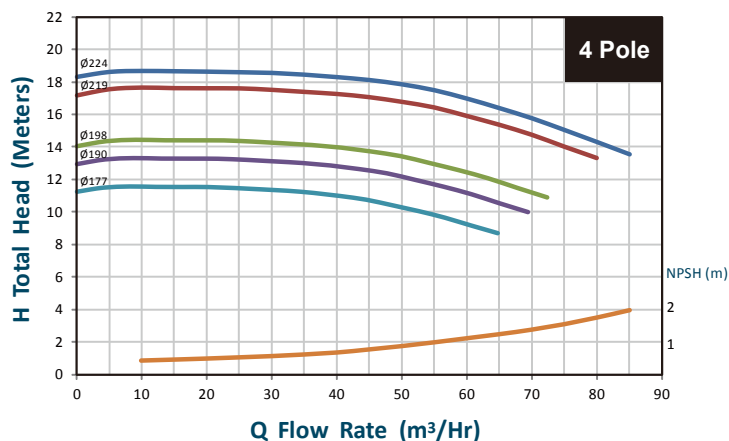
80x65-160 Performance Curve



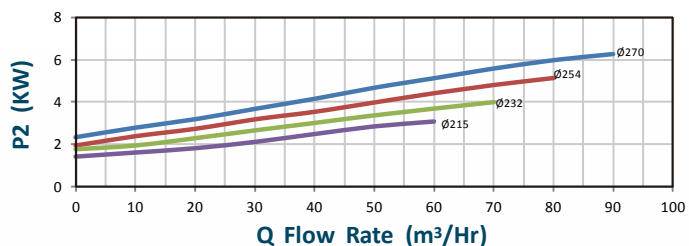
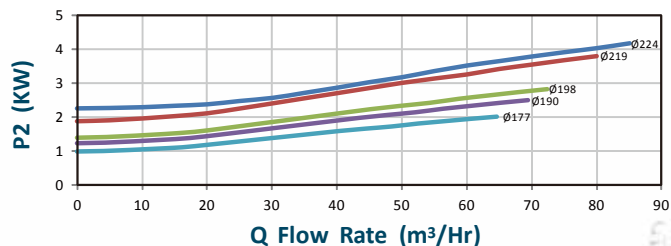
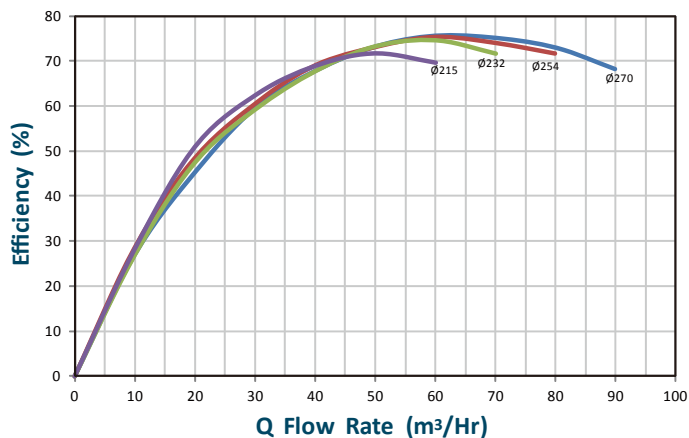
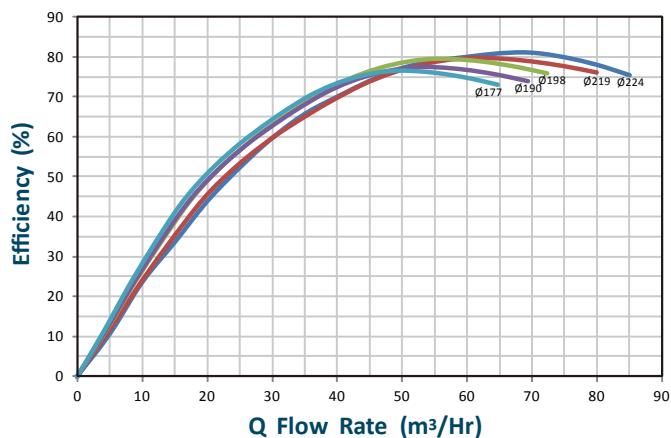
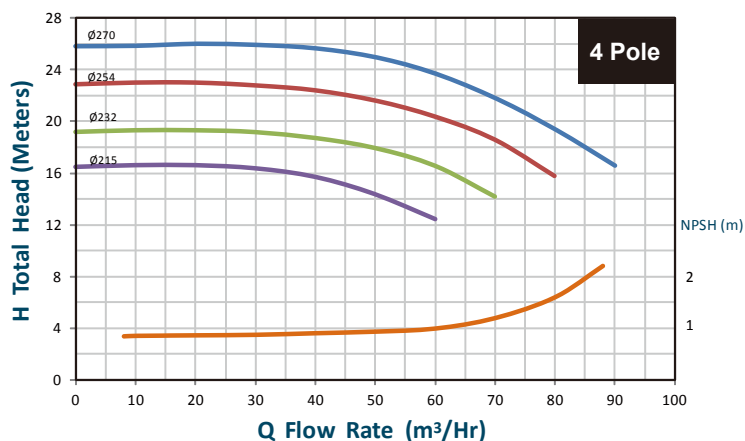
AES SERIES 50HZ

End Suction Centrifugal Pump

100x65-200 Performance Curve



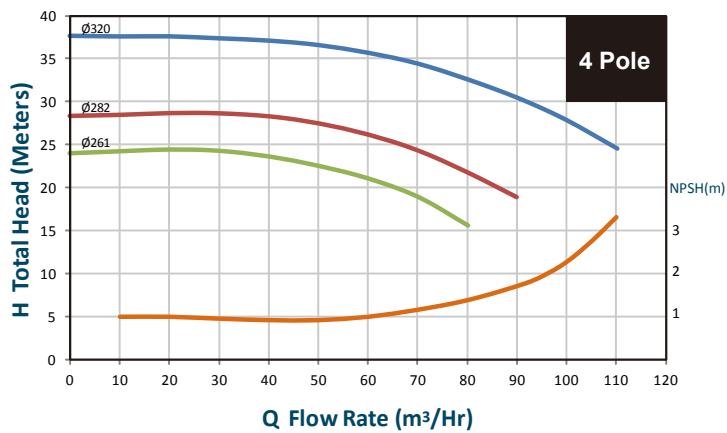
100x65-250 Performance Curve



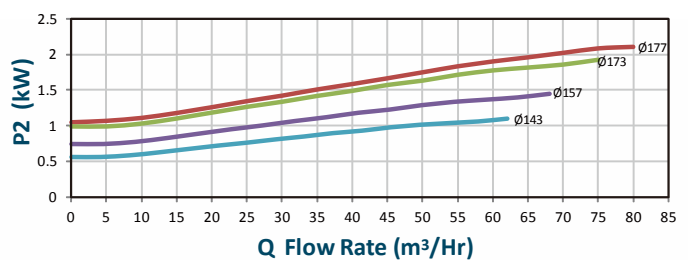
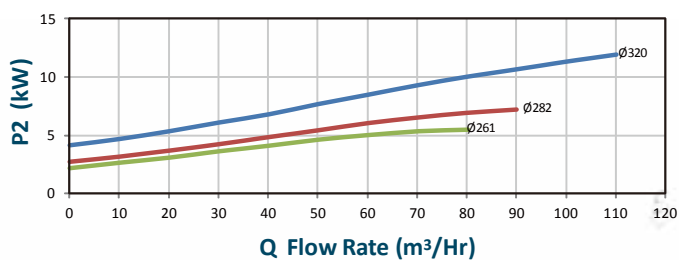
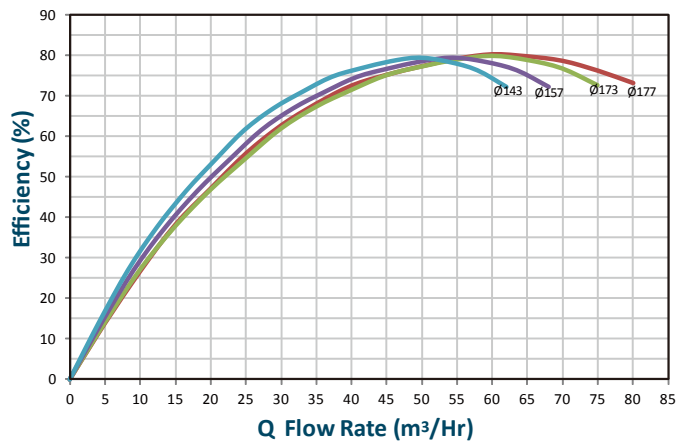
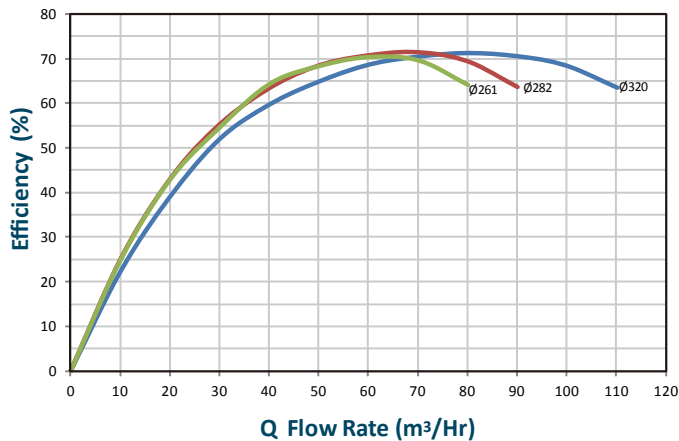
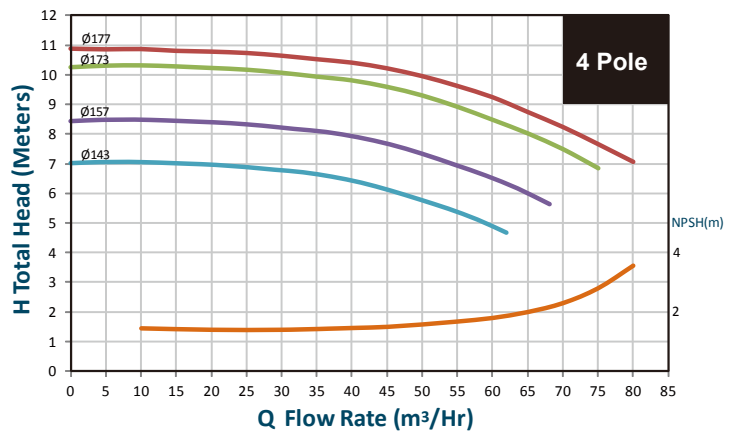
AES SERIES 50HZ

End Suction Centrifugal Pump

100x65-315 Performance Curve



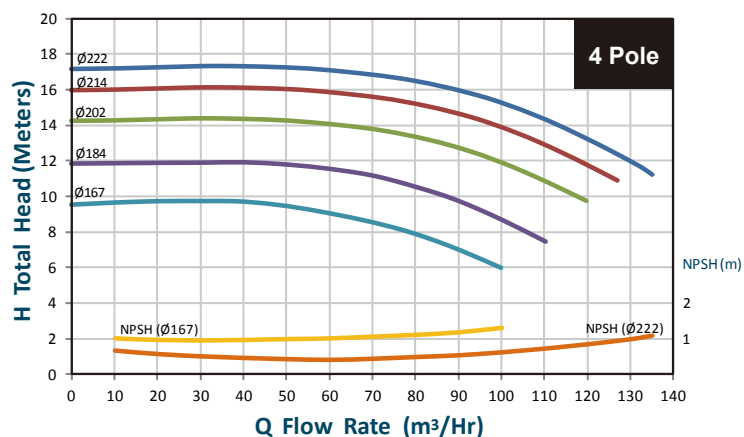
100x80-160 Performance Curve



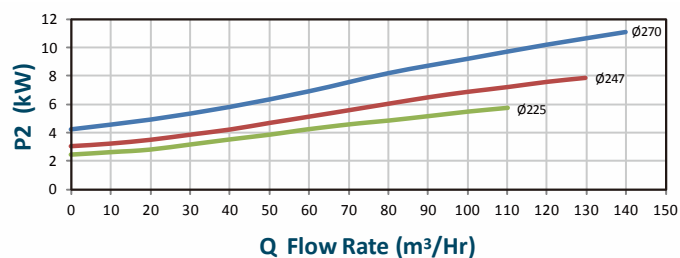
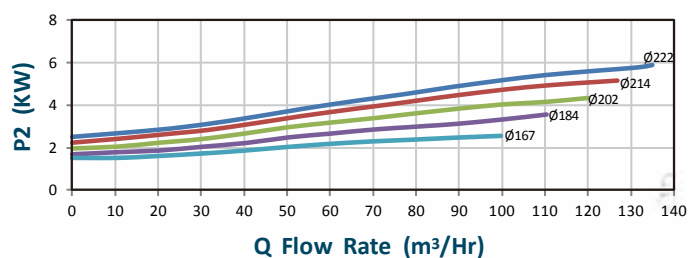
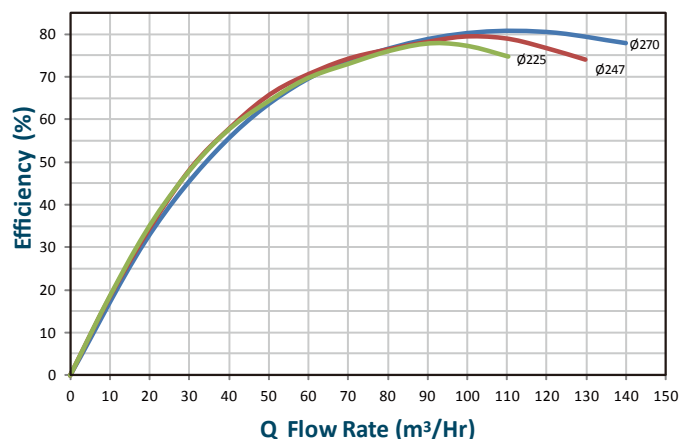
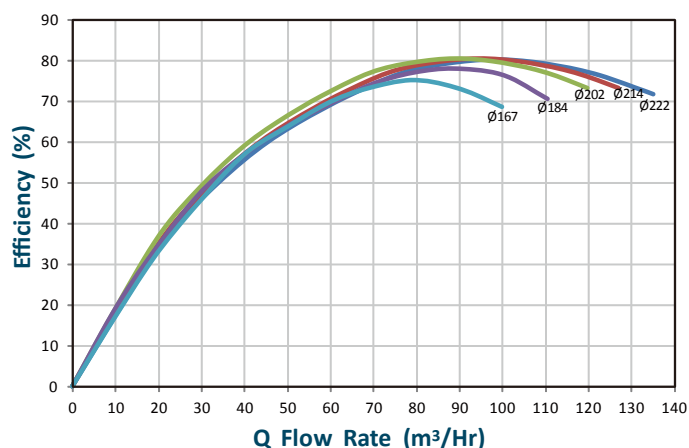
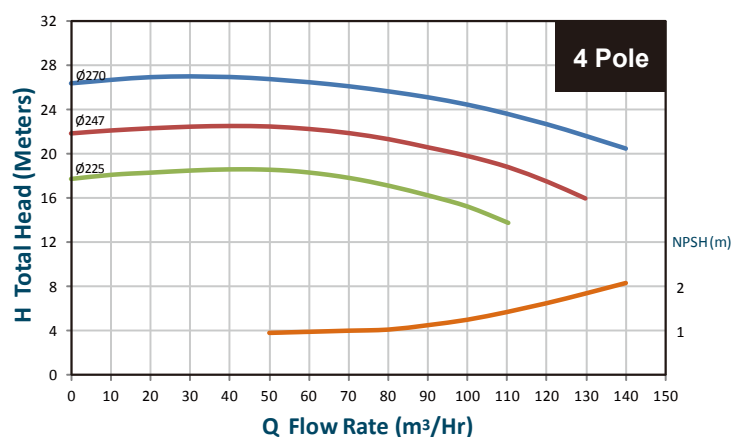
AES SERIES 50HZ

End Suction Centrifugal Pump

125x80-200 Performance Curve



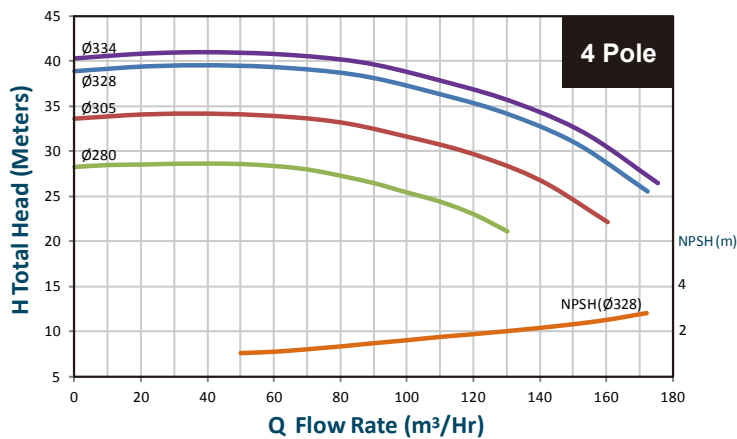
125x80-250 Performance Curve



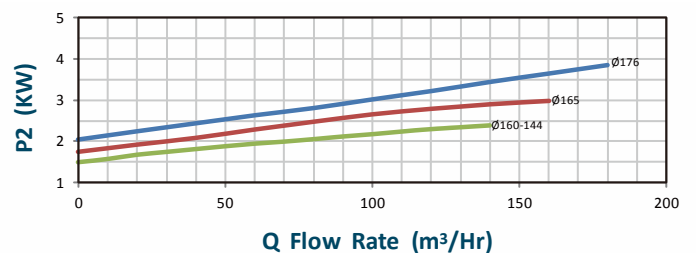
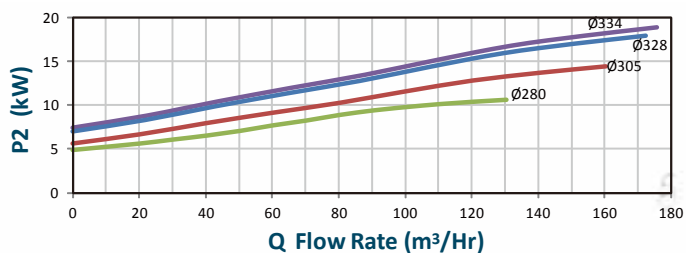
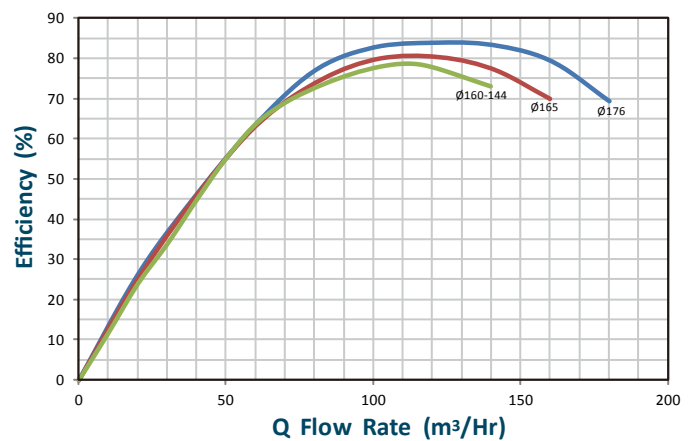
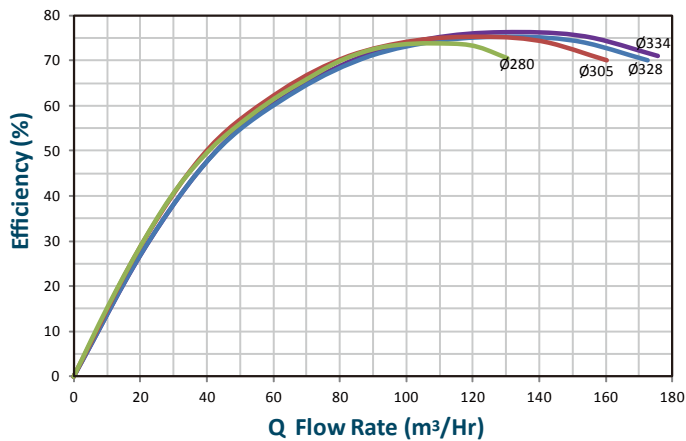
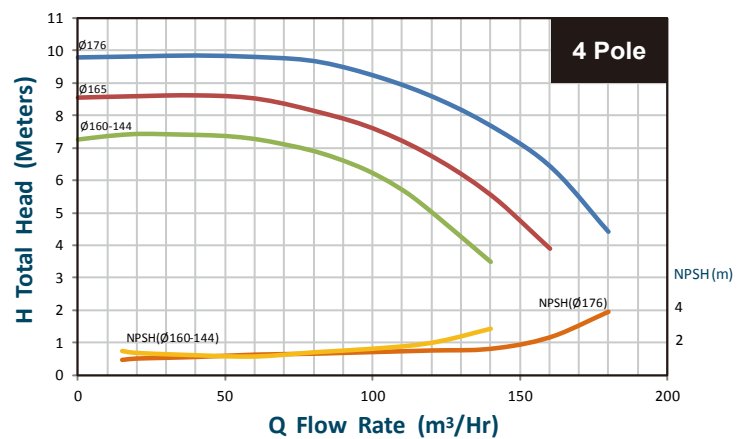
AES SERIES 50HZ

End Suction Centrifugal Pump

125x80-315 Performance Curve



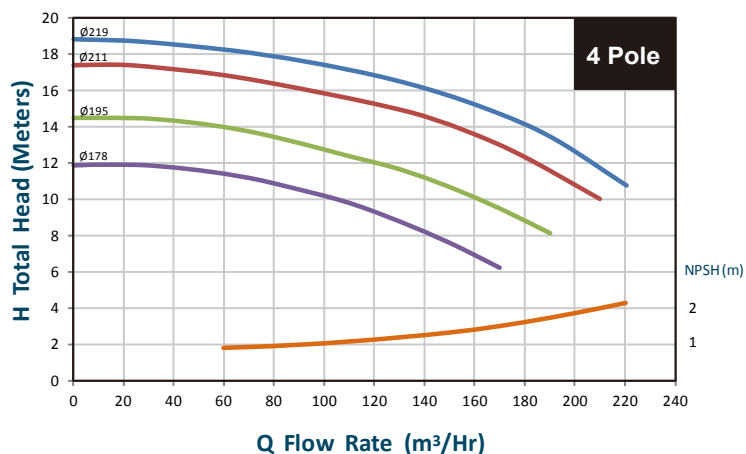
125x100-160 Performance Curve



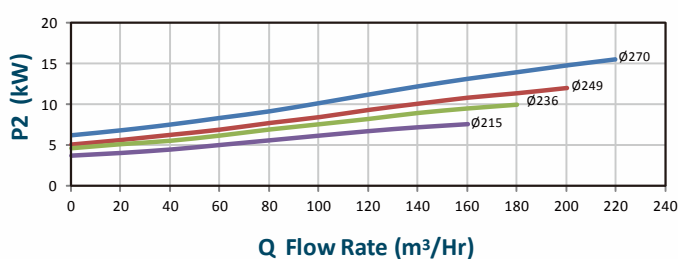
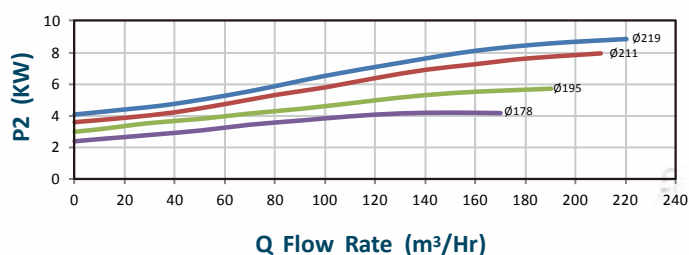
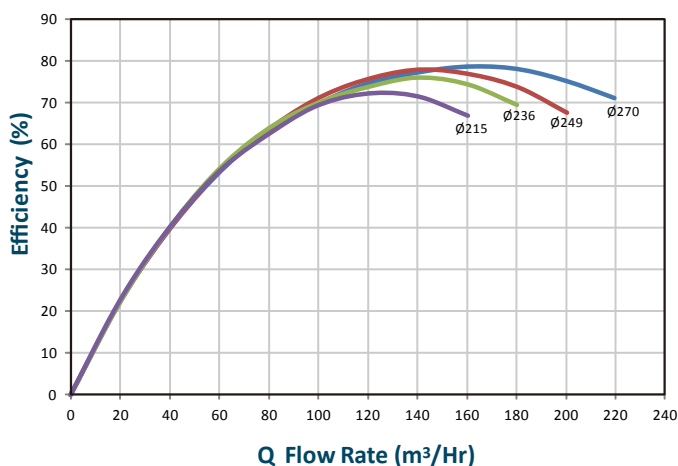
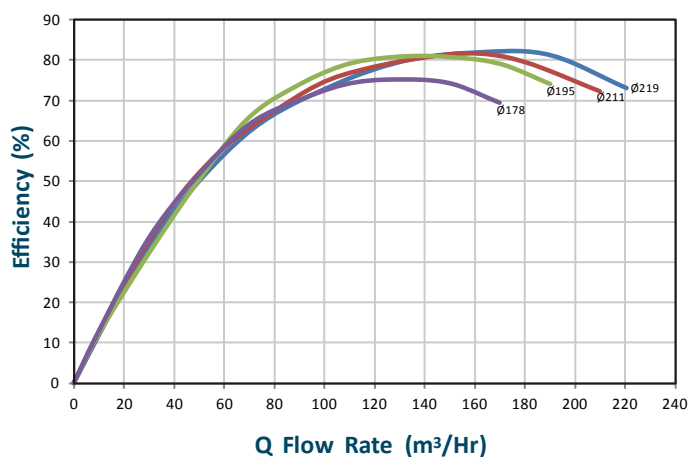
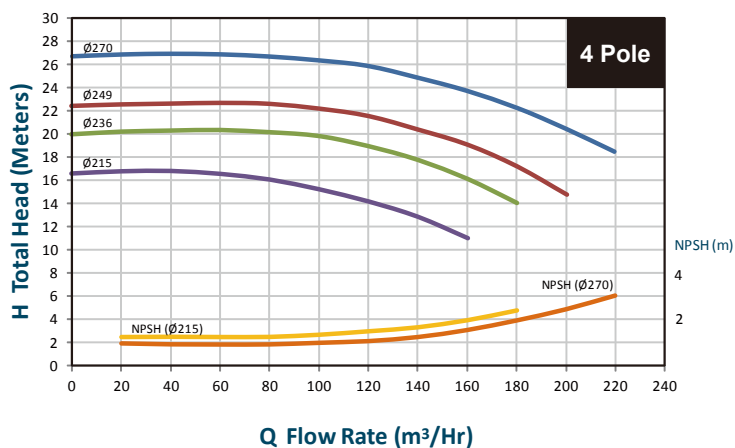
AES SERIES 50HZ

End Suction Centrifugal Pump

125x100-200 Performance Curve



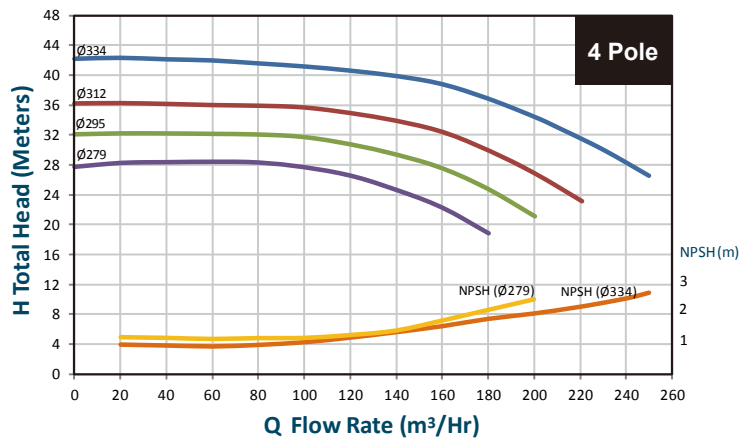
125x100-250 Performance Curve



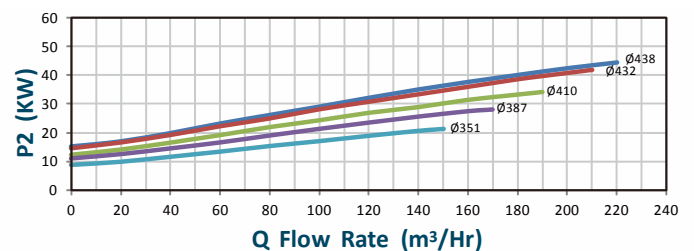
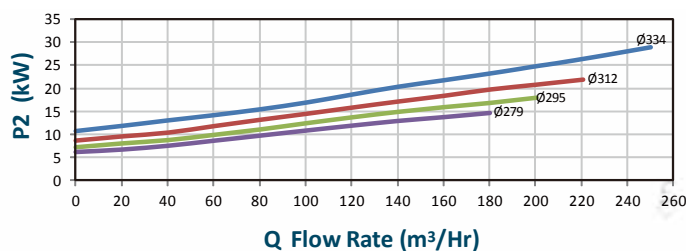
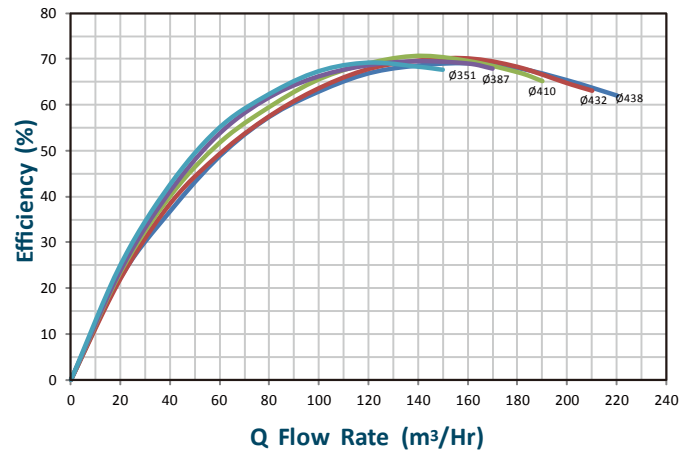
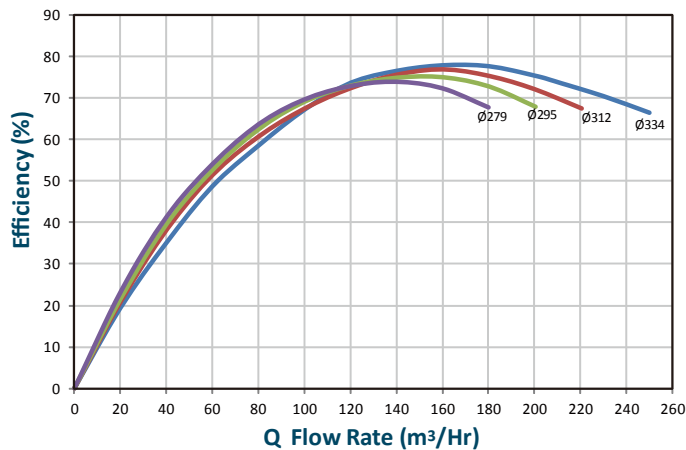
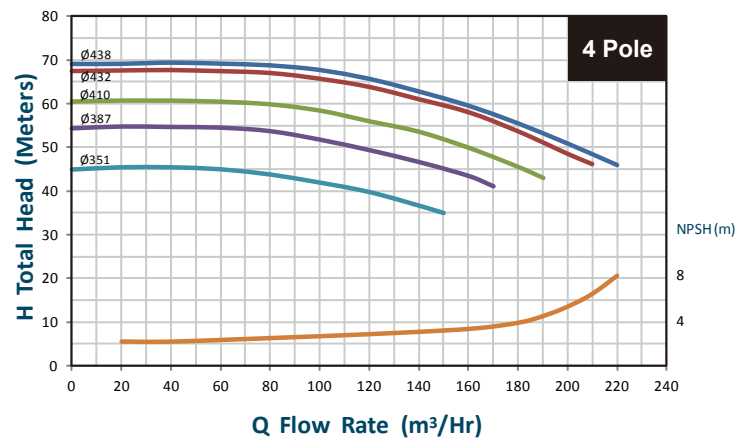
AES SERIES 50HZ

End Suction Centrifugal Pump

125x100-315 Performance Curve



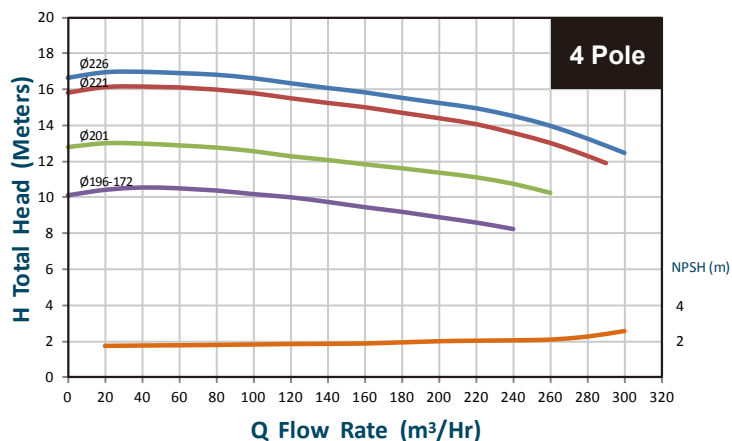
125x100-400 Performance Curve



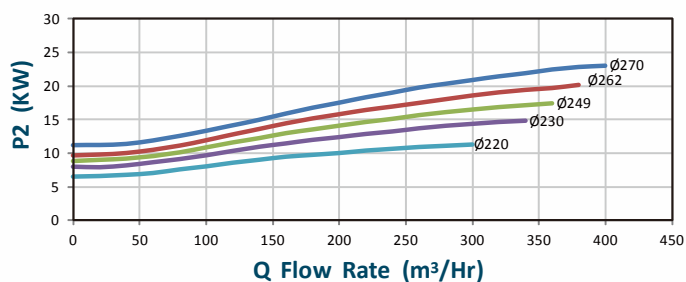
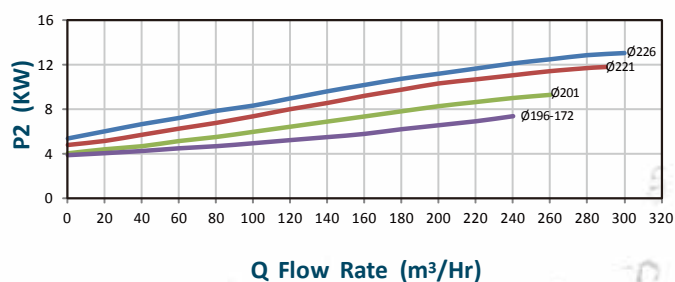
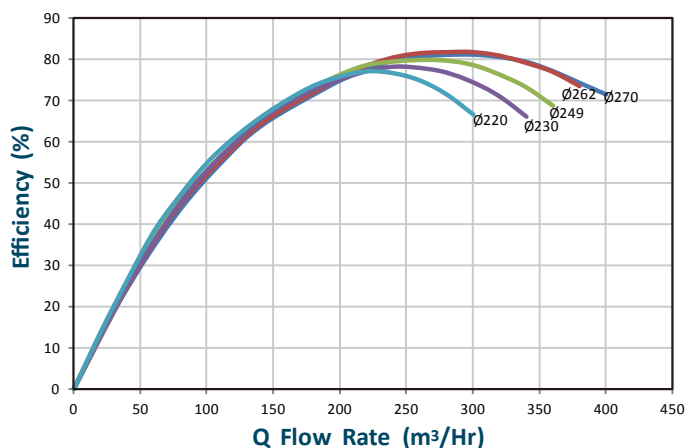
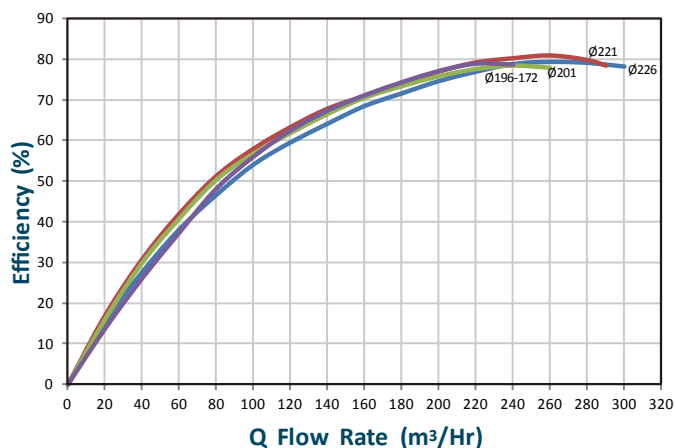
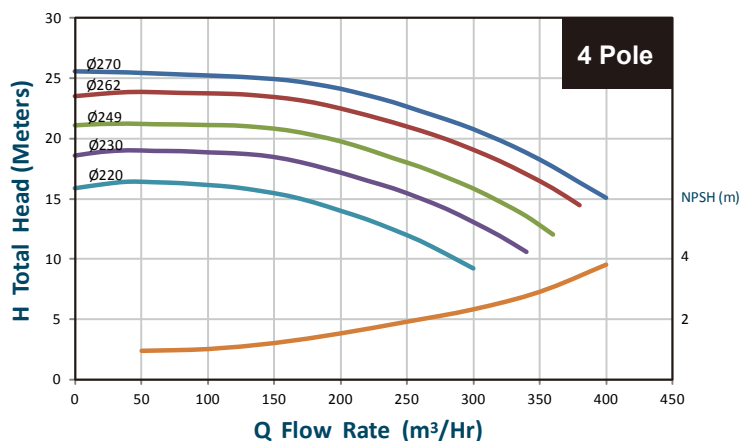
AES SERIES 50HZ

End Suction Centrifugal Pump

150x125-200 Performance Curve



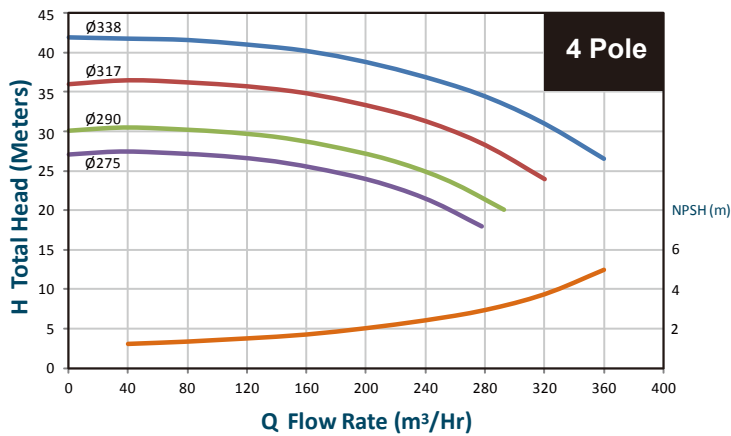
150x125-250 Performance Curve



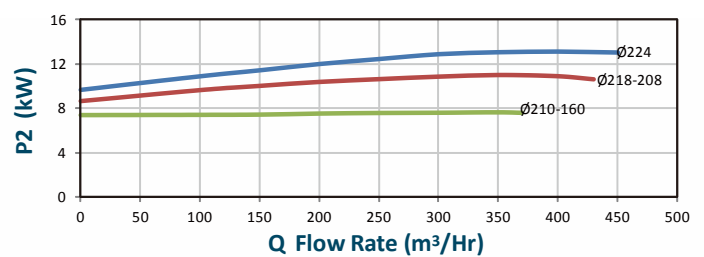
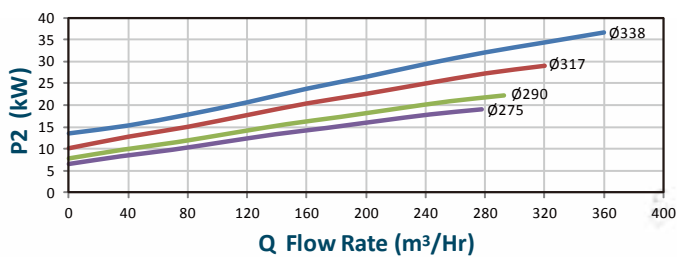
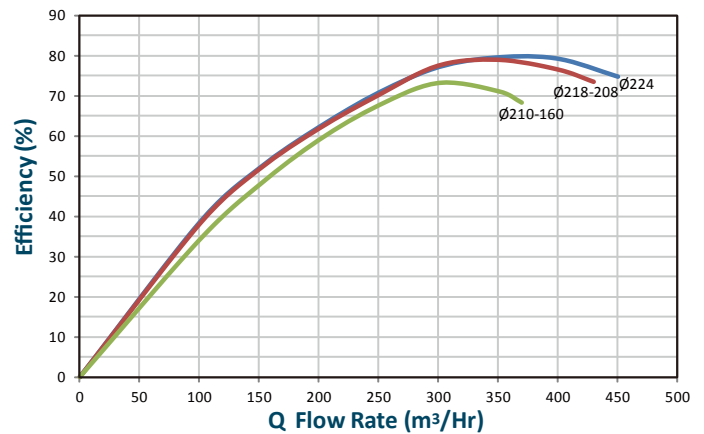
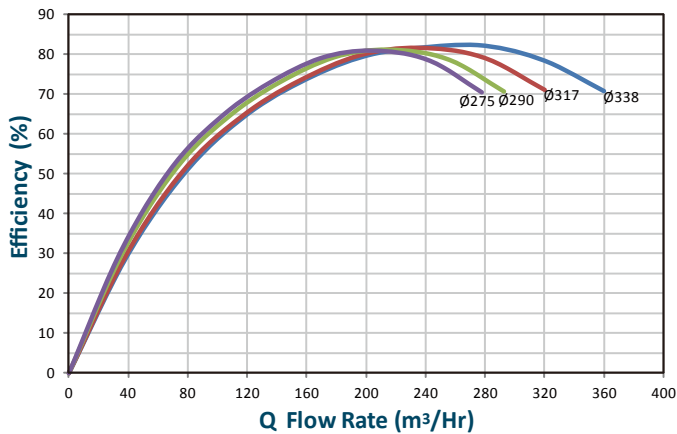
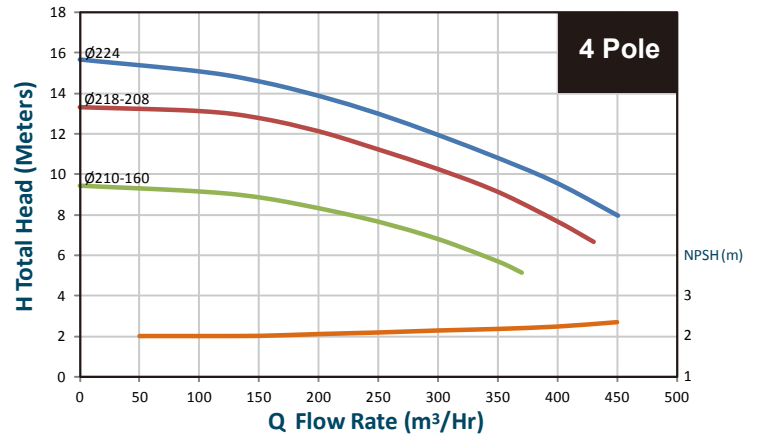
AES SERIES 50HZ

End Suction Centrifugal Pump

150x125-315 Performance Curve



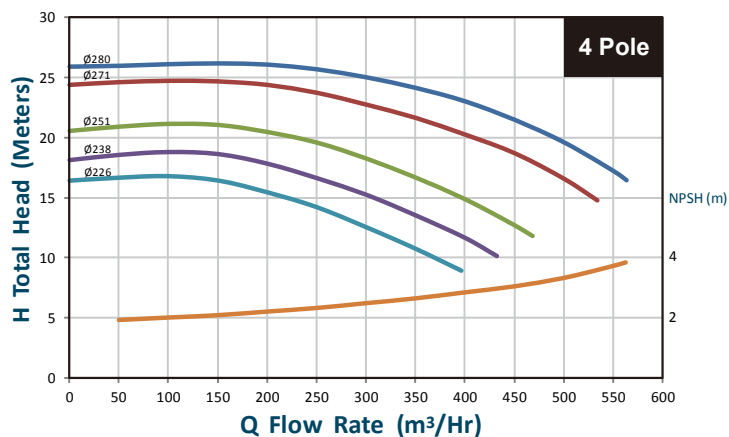
200x150-200 Performance Curve



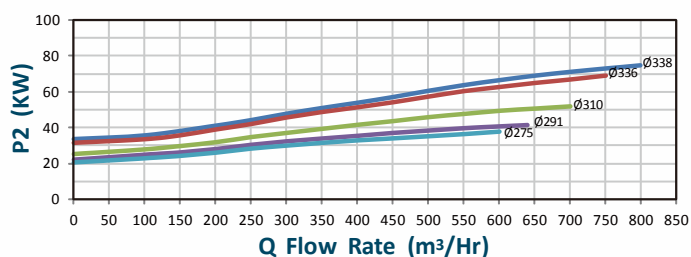
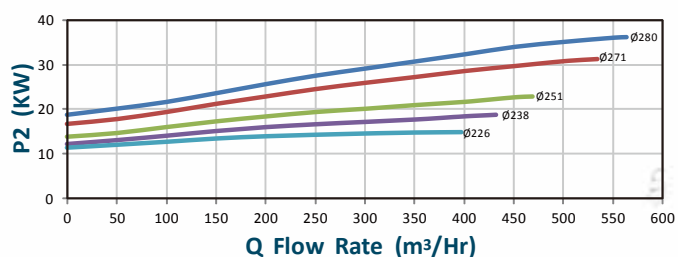
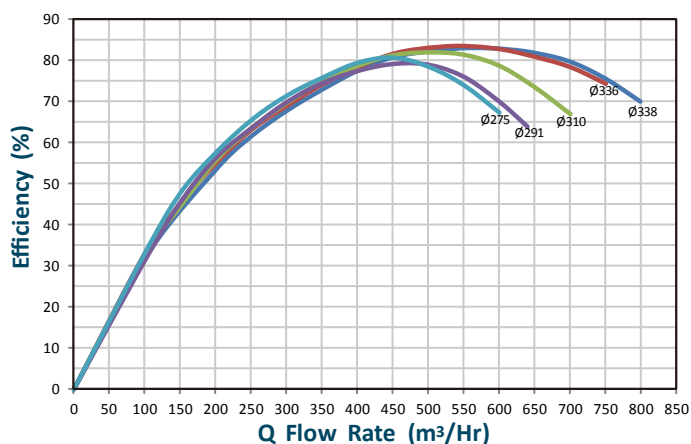
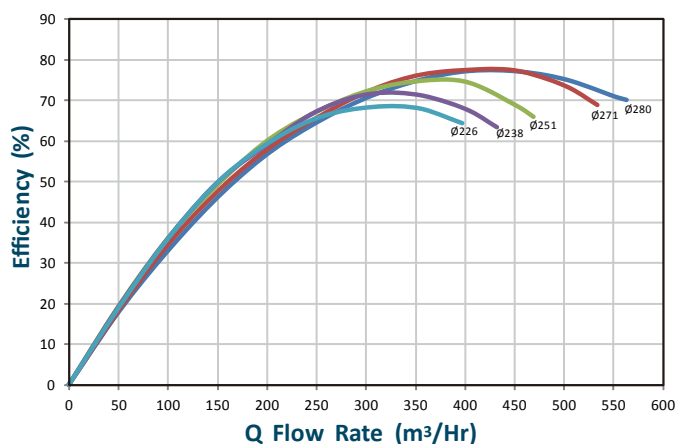
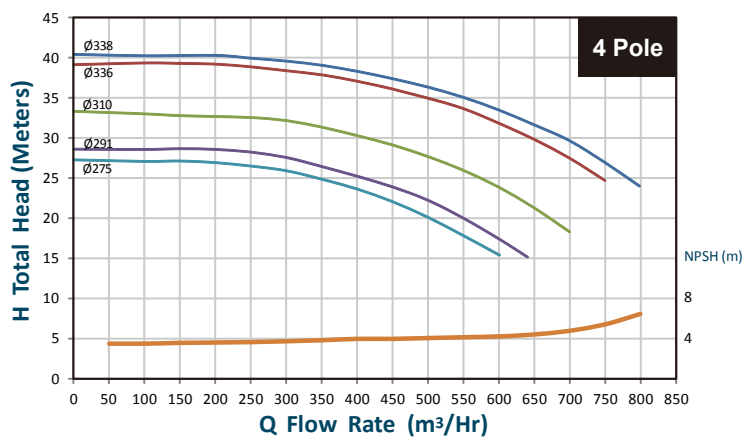
AES SERIES 50HZ

End Suction Centrifugal Pump

200x150-250 Performance Curve



200x150-315 Performance Curve



NOTE





MILANO

*ISO 2858 Standard
end suction centrifugal pump*



Vol.AES-20011

