

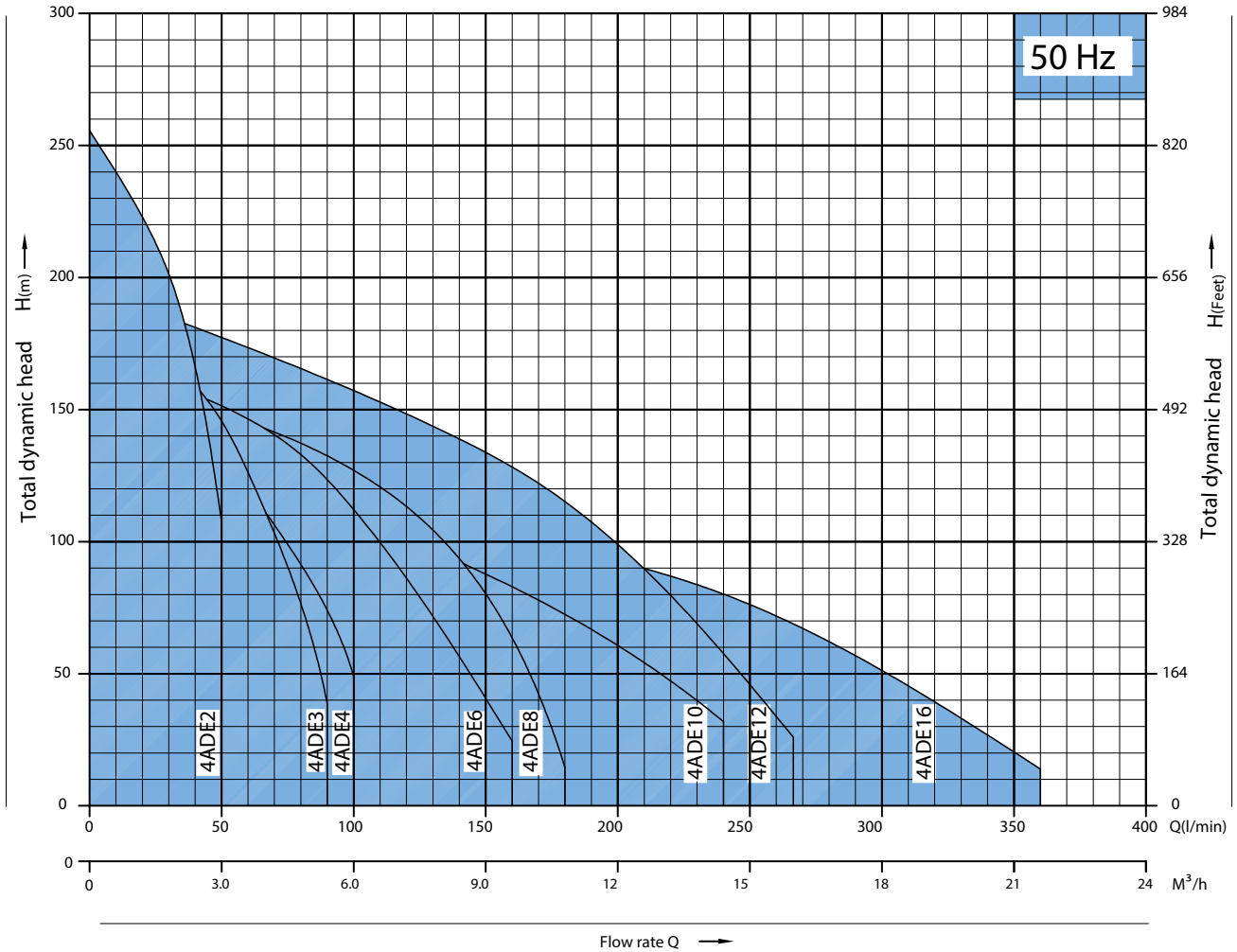


# ADE Series 4" Deep Well Submersible Pump

# 4" SUBMERSIBLE PUMP

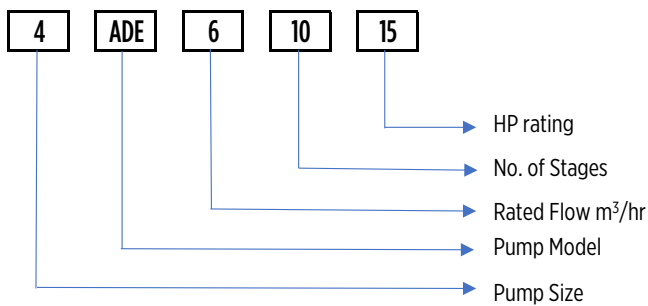
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## FAMILY CURVES



## PRODUCT NUMBERING

### 4ADE6-10/15



## 4" SUBMERSIBLE PUMPS

COVERCO is a long recognized Italian manufacturer of high quality submersible motors with more than 50 years of experience in the industry. FRANKLIN ELECTRIC acquired COVERCO in year 2002, further strengthening COVERCO R&D capability, production capacity, sales and service networks, delivering expanded product portfolio around the globe.

The COVERCO 4" submersible pumps are constructed with high quality material and features floating impeller system. These enable our pumps endure against wear when operating in abrasive and sandy well condition.

### APPLICATIONS

- Municipal Water Works
- Water supply from tank, reservoir, and well.
- Residential and agriculture
- Irrigation for various purposes, sprinkler systems
- Domestic water supply
- General Industries

### FEATURES

- Excellent resistance against corrosion with fully stainless steel casing; and cast stainless steel pump discharge outlet and bracket.
- Greater tolerance against sand through sophisticated hydraulic design and the use of engineered thermoplastic material for impeller that has superior wear resistance properties.
- Protection against water hammering with built-in check valve.
- Cost effective solution through optimized hydraulic design to enhance overall pumping efficiency to reduce energy consumption.

### PUMP SPECIFICATION

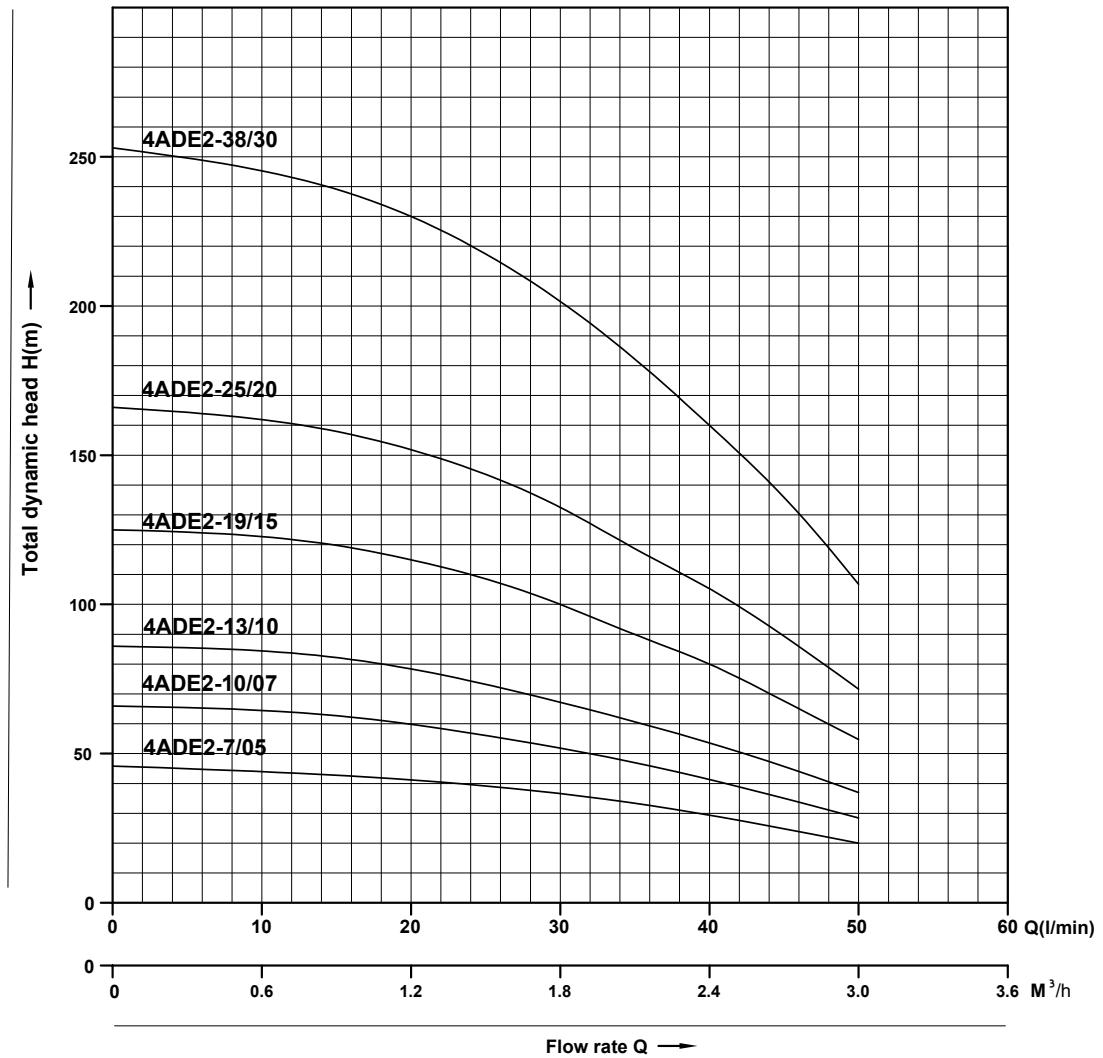
- Flow: up to 24m<sup>3</sup>/hr, Head up to 250m at 50Hz
- Outlet Size: 1.5" for 2, 3, 4ADE and 2" for 6, 8, 10, 12, 16ADE
- Maximum allowable amount of sand: 400 g/m<sup>3</sup>
- Maximum Pump diameter: 97mm
- NEMA standard dimensions
- Pump can work continuously in vertical or horizontal positions (requires our consultation to confirm horizontal applications type)

### AVAILABLE UPON REQUEST

- Head up to 500m
- Different pump discharge sizes

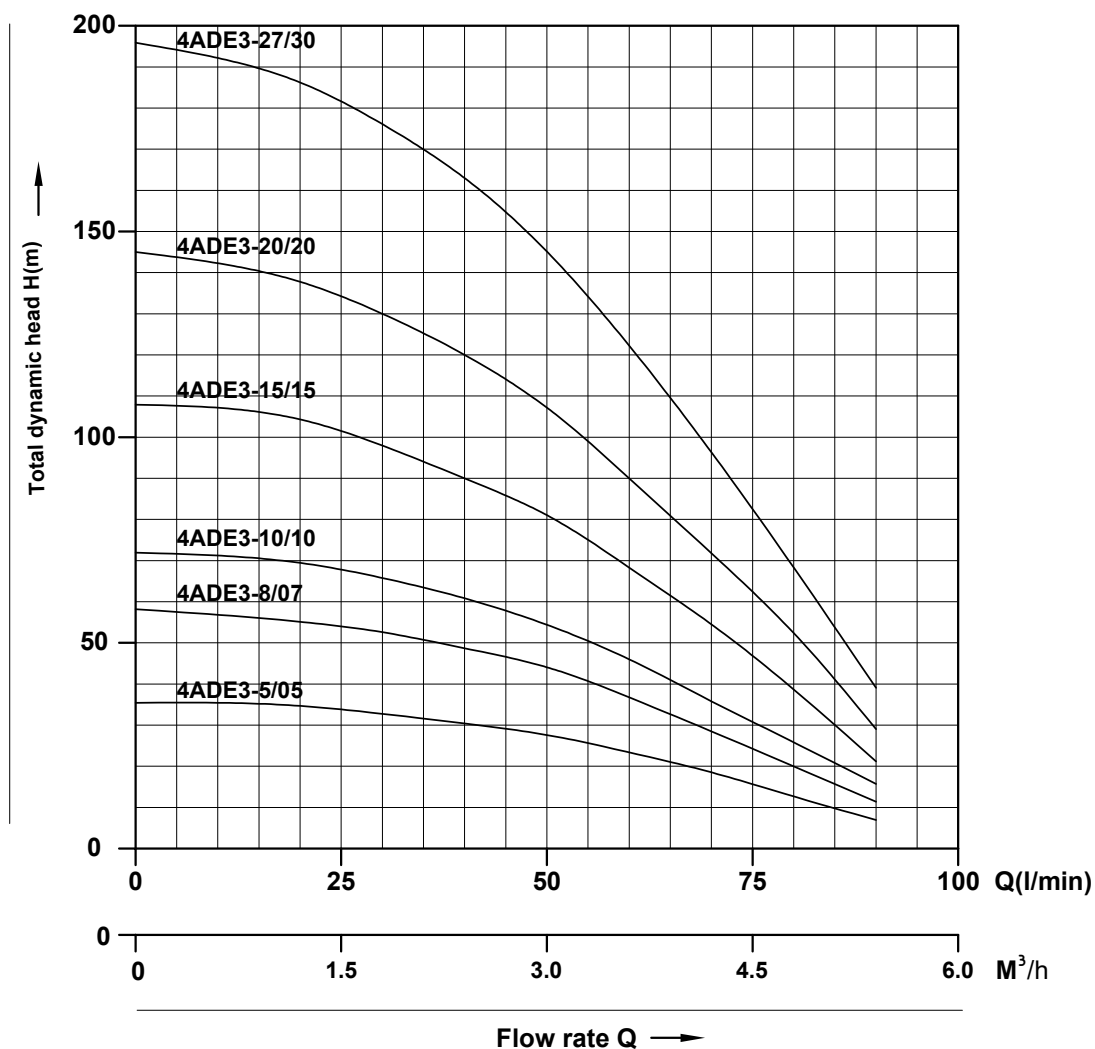


## 2ADE - PERFORMAMANCE CURVE AT 50Hz



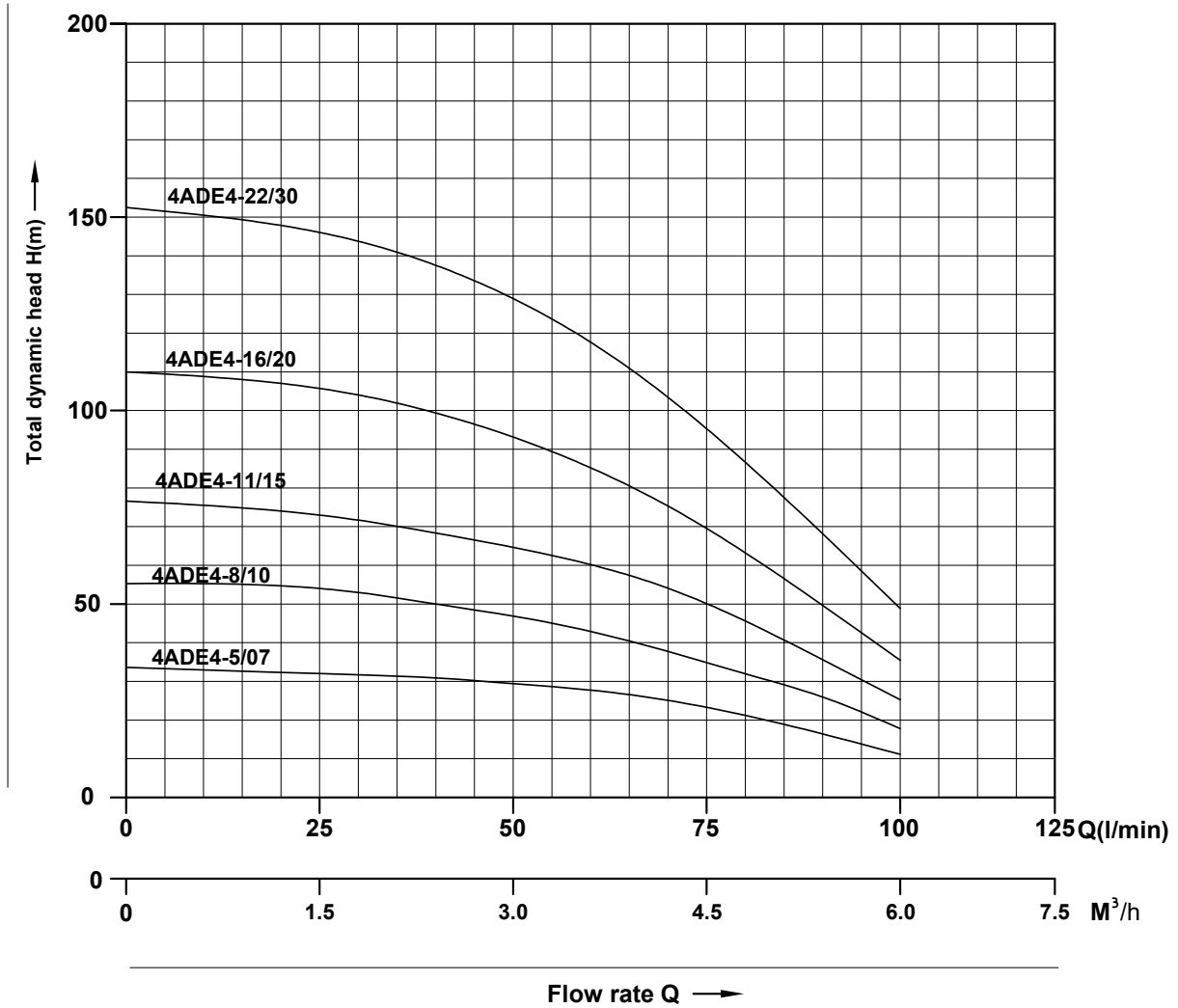
Pump Model	No. of Stages	Motor		Pump	Q	Delivery								
		KW	HP	Outlet (inch)		0	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
					Q	0	15	20	25	30	35	40	45	50
4ADE2-7/05	7	0.37	0.5	1.5"	Head H m	46	44	42	40	36	33	29	24	20
4ADE2-10/07	10	0.55	0.75	1.5"		66	63	60	57	52	47	42	35	28
4ADE2-13/10	13	0.75	1.00	1.5"		86	82	78	74	68	61	55	45	37
4ADE2-19/15	19	1.10	1.50	1.5"		126	120	115	109	100	90	80	67	54
4ADE2-25/20	25	1.50	2.00	1.5"		166	158	151	143	132	119	105	89	71
4ADE2-38/30	38	2.20	3.00	1.5"		252	240	230	218	201	181	160	135	108

## 3ADE - PERFORMANCE CURVE AT 50Hz



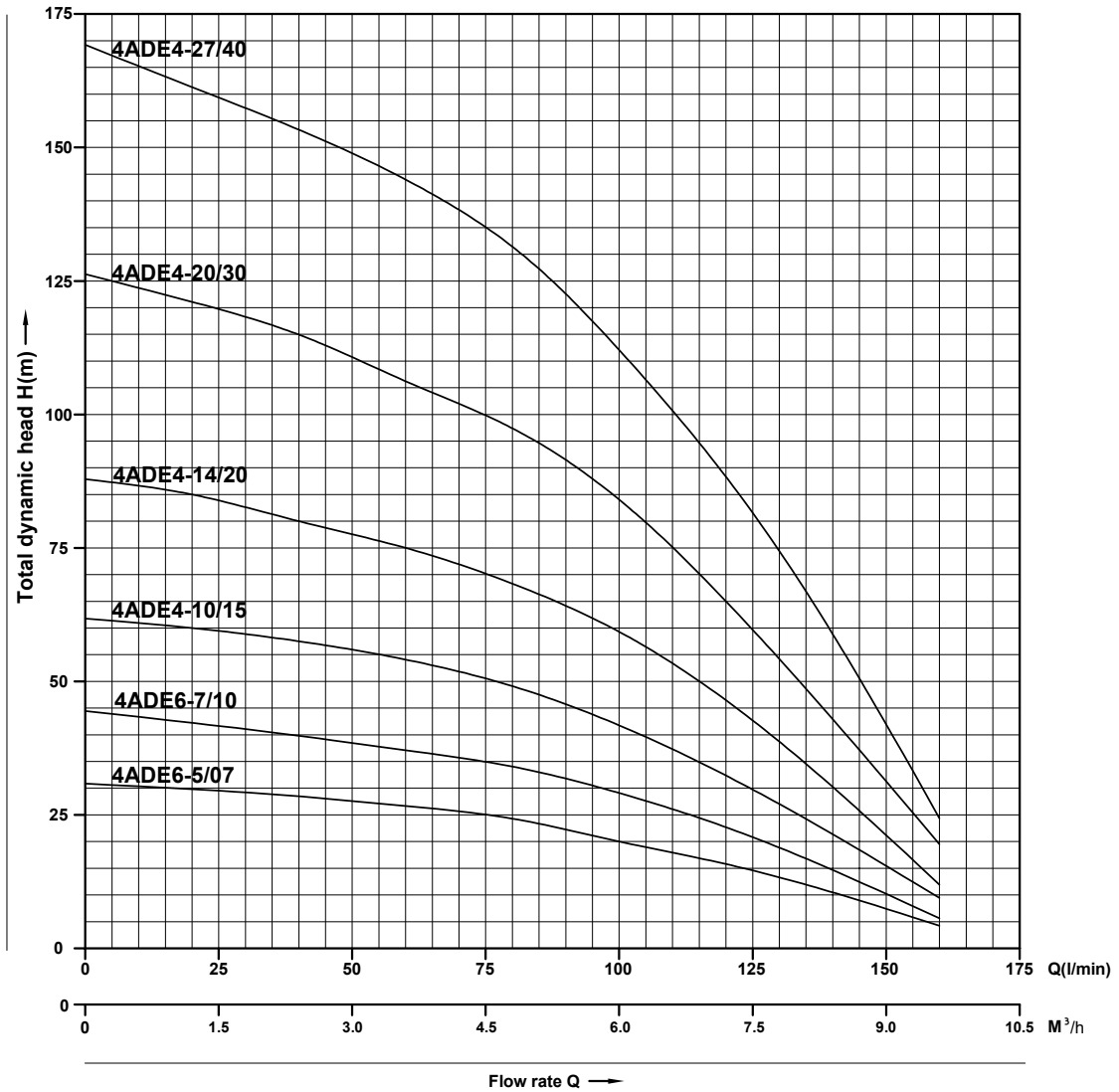
Pump Model	N. of Stages	Motor		Pump Outlet (inch)	Q m <sup>3</sup> /h l/min	Delivery								
		KW	HP			0	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4
4ADE3-5/05	5	0.37	0.50	1.5"	Head H m	0	20	30	40	50	60	70	80	90
4ADE3-8/07	8	0.55	0.75	1.5"		36	34	32	30	27	23	18	13	7
4ADE3-10/10	10	0.75	1.00	1.5"		58	55	52	48	43	36	28	20	11
4ADE3-15/15	15	1.10	1.50	1.5"		72	69	65	60	53	45	35	25	14
4ADE3-20/20	20	1.50	2.00	1.5"		109	104	98	90	81	68	53	39	22
4ADE3-27/30	27	2.20	3.00	1.5"		145	138	130	120	108	90	70	52	29
						196	186	176	162	145	122	95	70	39

## 4ADE- PERFORMAMANCE CURVE AT 50Hz



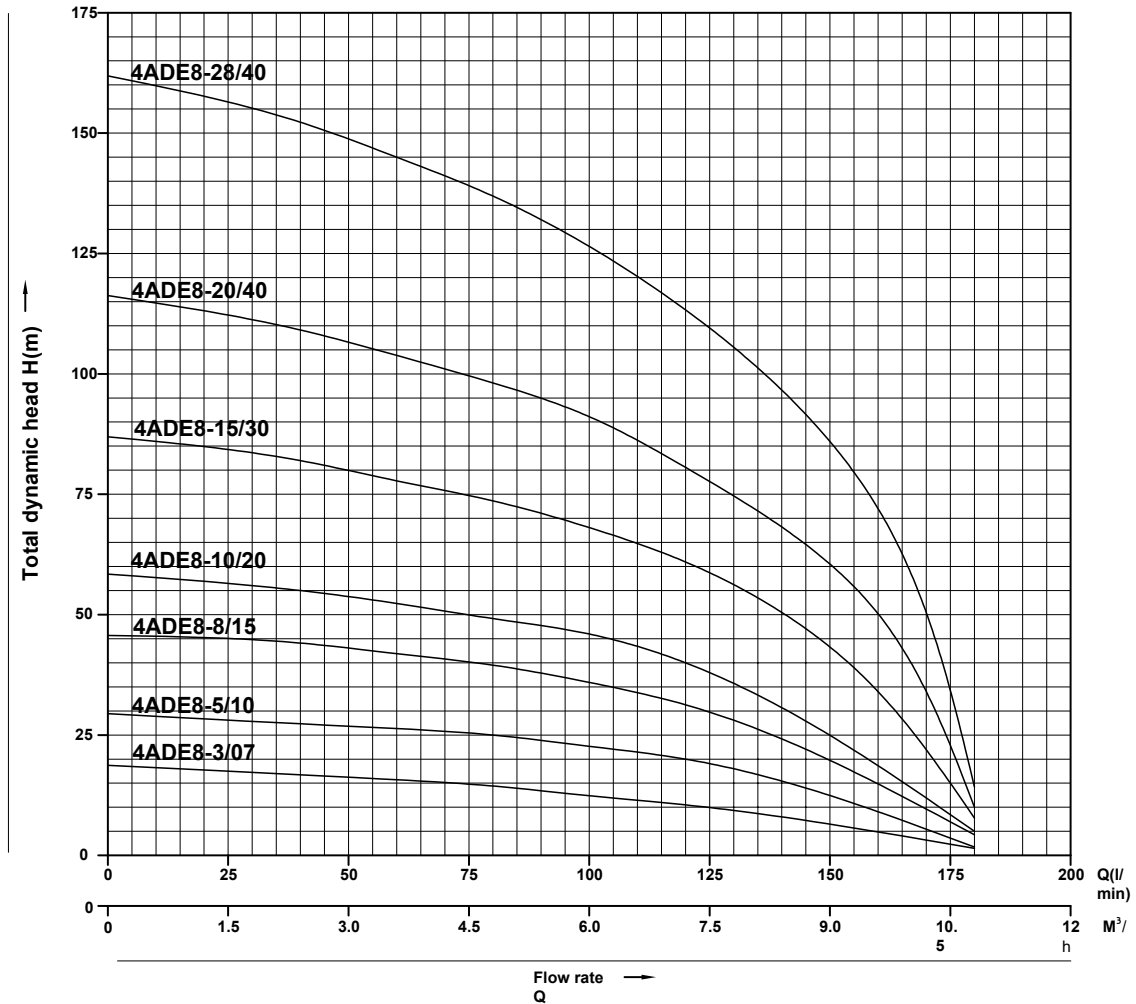
Pump Model	N. of Stages	Motor		Pump	Q	Delivery									
		KW	HP	Outlet (Inch)		m³/h	0	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
							l/min	0	30	40	50	60	70	80	90
4ADE4-5/07	5	0.55	0.75	1.5"	Head H m	34	32	31	29	27	24	19	16	11	
4ADE4-8/10	8	0.75	1.00	1.5"		55	52	49	47	44	38	31	25	18	
4ADE4-11/15	11	1.10	1.50	1.5"		76	71	67	65	60	53	43	34	24	
4ADE4-16/20	16	1.50	2.00	1.5"		110	104	98	94	86	76	62	49	36	
4ADE4-22/30	22	2.20	3.00	1.5"		151	143	134	130	119	104	85	68	49	

# 6ADE - PERFORMANCE CURVE AT 50Hz



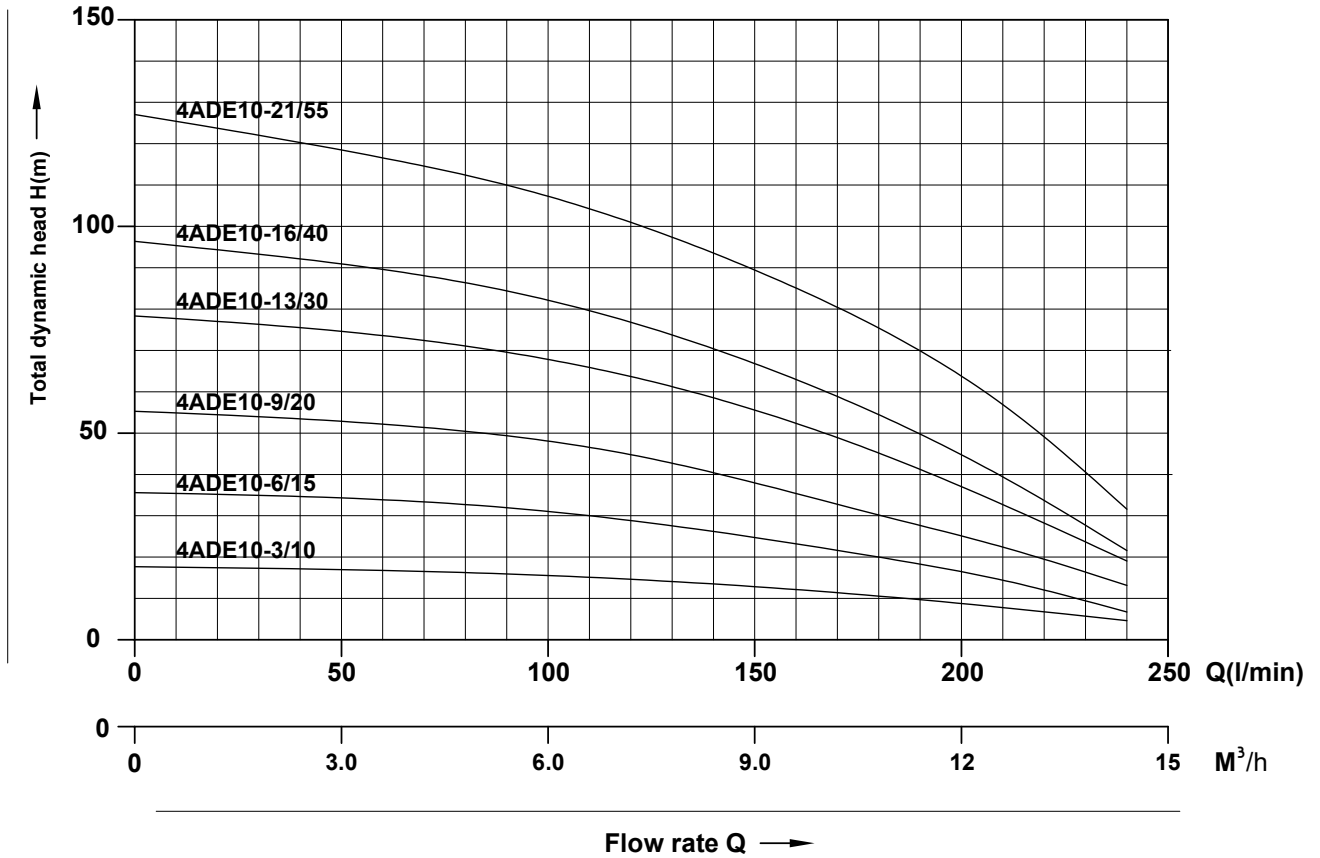
Pump Model	N. of Stages	Motor		Pump Outlet (inch)	Q	Delivery								
		KW	HP			0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6
					m³/h	0	20	40	60	80	100	120	140	160
4ADE6-5/07	5	0.55	0.75	2"	Head H m	31	30	28	26	24	20	16	10	4
4ADE6-7/10	7	0.75	1.00	2"		44	42	39	37	34	29	23	14	6
4ADE6-10/15	10	1.10	1.50	2"		63	60	56	54	49	42	33	21	9
4ADE6-14/20	14	1.50	2.00	2"		88	85	78	75	68	59	46	30	13
4ADE6-20/30	20	2.20	3.00	2"		126	121	112	107	98	84	65	43	19
4ADE6-27/40	27	3.00	4.00	2"		169	162	152	144	132	112	88	56	24

## 8ADE - PERFORMAMANCE CURVE AT 50Hz



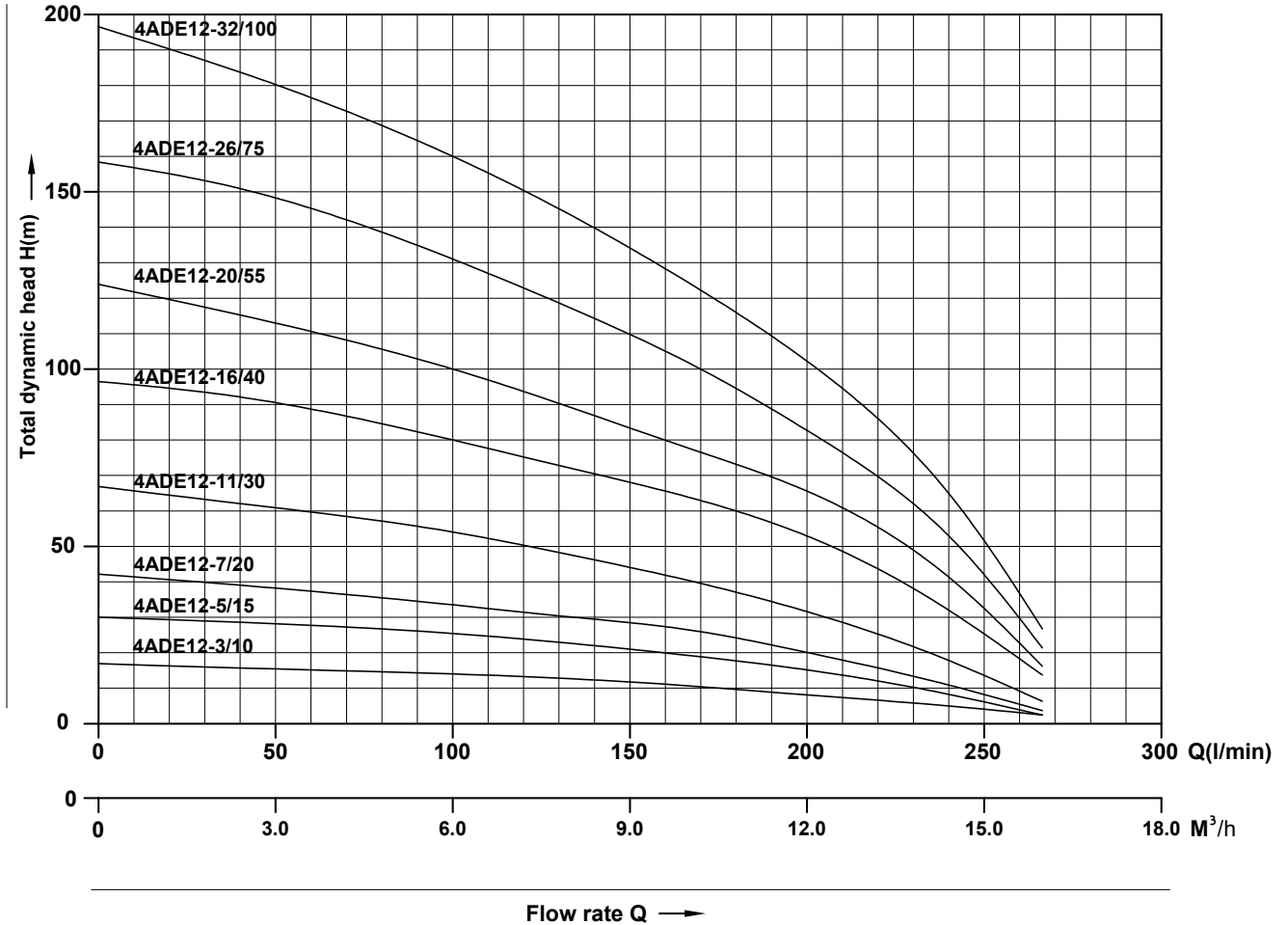
Pump Model	N. of Stages	Motor		Pump	Q	Delivery									
		KW	HP	Outlet (inch)		0	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	
					$\frac{m^3}{h}$	0	40	60	80	100	120	140	160	180	
4ADE8-3/07	3	0.55	0.75	2"	Head H m	18	16	15	14	13	12	10	7	2	
4ADE8-5/10	5	0.75	1.00	2"		29	27	26	25	23	20	17	13	3	
4ADE8-8/15	8	1.10	1.50	2"		46	44	41	39	36	32	27	21	4	
4ADE8-10/20	10	1.50	2.00	2"		58	55	52	49	45	41	35	25	5	
4ADE8-15/30	15	2.20	3.00	2"		87	82	78	74	68	61	51	39	8	
4ADE8-20/40	20	3.00	4.00	2"		116	109	103	98	91	81	69	52	10	
4ADE8-28/40	28	4.00	5.50	2"		162	153	145	137	127	114	96	72	14	

# 10ADE- PERFORMANCE CURVE AT 50Hz



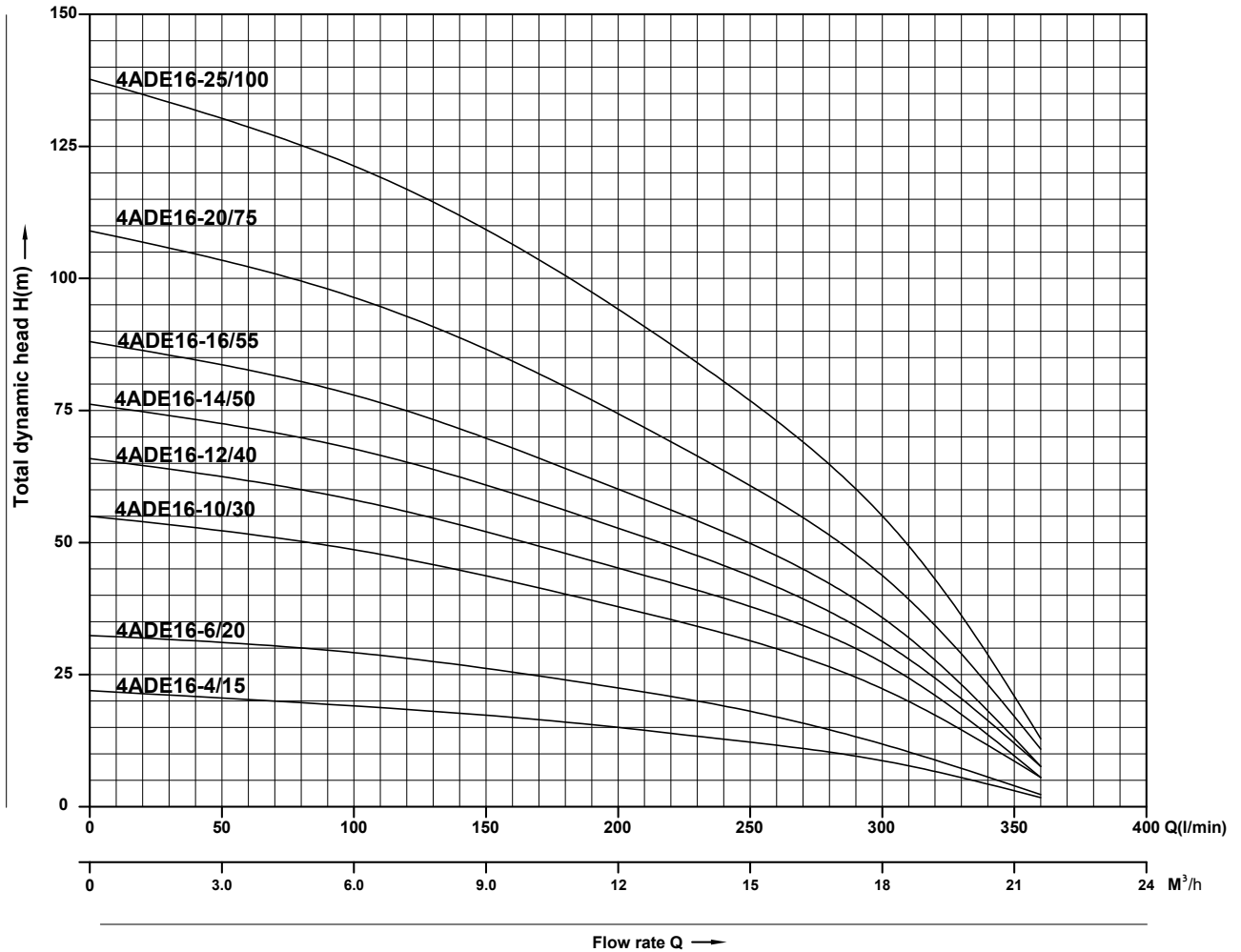
Pump Model	N. of Stages	Motor		Pump	Q	Delivery								
		KW	HP	Outlet (inch)		Q								
						0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4
4ADE10-3/10	3	0.75	1.00	2"	l/min	0	30	60	90	120	150	180	210	240
4ADE10-6/15	6	1.10	1.50	2"	Head H m	18	17	16	15	14	12	9	7	4
4ADE10-9/20	9	1.50	2.00	2"		36	35	33	31	29	24	18	14	8
4ADE10-13/30	13	2.20	3.00	2"		55	53	50	47	43	37	28	22	13
4ADE10-16/40	16	3.00	4.00	2"		79	77	72	68	63	54	41	37	19
4ADE10-21/55	21	4.00	5.50	2"		96	93	89	84	78	66	50	38	22
						128	124	116	110	102	87	66	57	31

## 12ADE- PERFORMAMANCE CURVE AT 50Hz



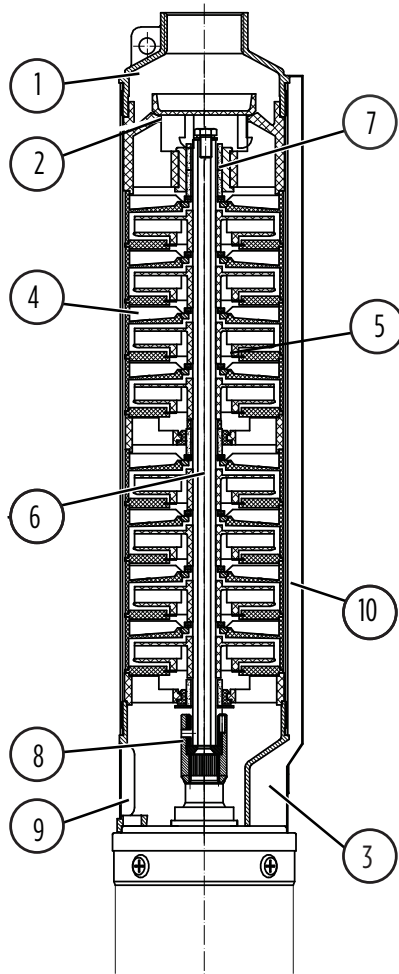
Pump Model	N. of Stages	Motor		Pump	Q m <sup>3</sup> /h l/min	Delivery								
		KW	HP	Outlet (inch)		0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
4ADE12-3/10	3	0.75	1.00	2"	Head H m	0	33	67	100	133	167	200	233	267
4ADE12-5/15	5	1.10	1.50	2"		18	17	16	14	13	11	8	5	2
4ADE12-7/20	7	1.50	2.00	2"		30	28	26	24	21	18	14	9	2
4ADE12-11/30	11	2.20	3.00	2"		42	39	37	33	30	25	19	12	3
4ADE12-16/40	16	3.00	4.00	2"		66	62	58	53	47	40	31	20	5
4ADE12-20/55	20	4.00	5.50	2"		98	93	86	80	71	62	51	36	13
4ADE12-26/75	26	5.50	7.50	2"		123	116	108	100	89	78	64	45	16
4ADE12-32/100	32	7.50	10.00	2"		159	151	140	130	115	101	83	59	21
					196	186	172	160	142	124	102	72	26	

# 16ADE - PERFORMANCE CURVE AT 50Hz



Pump Model	N. of Stages	Motor		Pump	Q m³/h l/min	Delivery								
		KW	HP	Outlet (inch)		0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	21.6
						0	100	130	165	200	230	265	300	360
4ADE16-4/15	4	1.10	1.50	2"	Head H m	22	19	17	15	14	13	11	9	2
4ADE16-6/20	6	1.50	2.00	2"		33	29	27	23	22	20	16	13	3
4ADE16-10/30	10	2.20	3.00	2"		55	48	45	39	37	34	28	23	6
4ADE16-12/40	12	3.00	4.00	2"		66	58	54	47	44	41	33	27	6
4ADE16-14/50	14	3.70	4.00	2"		76	68	62	55	52	47	39	31	8
4ADE16-16/55	16	4.00	5.50	2"		88	77	72	62	58	55	45	36	8
4ADE16-20/75	20	5.50	7.50	2"		109	96	89	78	73	68	56	45	11
4ADE16-25/100	25	7.50	10.00	2"		137	121	112	97	91	85	71	56	13

## Material of Construction



No.	4" SS Pump Parts	Materials
1	Discharge Head	Casted Stainless Steel
2	Non Return Valve	Polycarbonate
3	Bottom Bracket (Motor Adapter)	Casted Stainless Steel
4	Impeller	Polyformaldehyde (POM)
5	Diffuser	Polycarbonate with Ceramic Insert
6	Shaft	Stainless Steel
7	Bearing	N.B.R.
8	Coupling	Stainless Steel
9	Filter	Stainless Steel
10	Cable Guard	Stainless Steel



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