

END SUCTION  
CHEMICAL PUMPS  
**KEC Series**



## MARSHALLING THE POWER OF TECHNOLOGY TO PROVIDE COST EFFECTIVE PUMPING SOLUTIONS

Genvik is one of the emerging leaders in the world with the capability and the resources to provide pumping solutions that are not only cost effective but contributes to better productivity. As a technology oriented company Genvik has made major investments to stay on the cutting edge of pump manufacture. While the focus is on industrial pumps, Genvik has also developed pumping systems for diverse applications.

Genvik pumps are manufactured at ISO 9001&14001 facilities, equipped with state of art testing equipments and highly sophisticated machinery. Design and manufacture are carried out under digital environment for zero defect product turn out.

Backed by strong customer service and a willingness to listen to customer perceptions and needs, Genvik is a name to reckon with in the world of pumps.

# C O N T E N T S

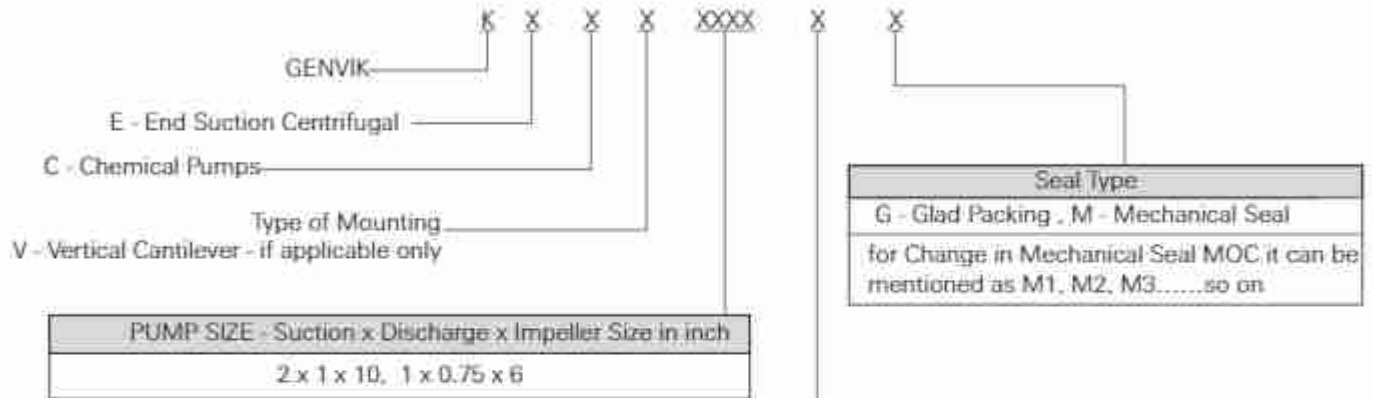
## **KEC Series - ANSI B73.1 / ASME B73.1**

GENERAL INFORMATION	4
DESCRIPTION, APPLICATION & FEATURES	5
EXPLODED VIEW	6
CROSS SECTIONAL DRAWING	7
INTERCHANGEABILITY CHART	8
MOUNTING DIMENSION - PUMP	11
MOUNTING DIMENSION - PUMP SET	12
OVERALL RANGE & PERFORMANCE DETAILS	20
GROUP PERFORMANCE CURVE	21
PERFORMANCE CURVE	24

## **KEC-LF Series - Non ANSI Pumps**

DESCRIPTION, APPLICATION & FEATURES	67
EXPLODED VIEW	68
CROSS SECTIONAL DRAWING	69
INTERCHANGEABILITY CHART	70
MOUNTING DIMENSION - PUMP	71
MOUNTING DIMENSION - PUMP SET	72
OVERALL RANGE & PERFORMANCE DETAILS & MIC	74
GROUP PERFORMANCE CURVE	75
PERFORMANCE CURVE	76

## MODEL IDENTIFICATION



Description	Material of Construction							
	N	M	S	T	L	W	C	F
Casing	SS 316	SS 316	SS 304	SS 304	SS 316 L	CS (WCB)	CI	CI
Impeller	SS 316	SS 316	SS 304	SS 304	SS 316 L	CS (WCB)	CF8	CF8M
Stuffing box & Gland	SS 316	SS 316	SS 304	SS 304	SS 316 L	CS (WCB)	CI	CI
Shaft	SS 316	EN 8	SS 316	EN 8	SS 316 L	EN 8	EN 8	EN 8
shaft sleeve	SS 316	SS 316	SS 316	SS 316	SS 316	SS 316	SS 410	SS 410
Bearing Housing & Connecting Frame	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Type of material of construction	N	M	S	T	L	W	C	F

## TECHNICAL DATA

Power	upto 80kW
Flow	upto 920 m <sup>3</sup> /h
Head	upto 140 m
Max. Liquid Temperature	-10°C to 180°C
Max. Operating Pressure	16 bar
Speed	970/1450/2900 rpm

## GENERAL INFORMATION

- Performance curves are as per specific gravity and viscosity of water.
- Curve tolerance according to ISO 9906 : 2012 Table 8 - 2B.
- For Safety consider a margin of 0.5m higher of NPSH.
- All dimensions are in mm
- The Given details / drawings / specifications are subject to change without prior notice.

## CHEMICAL PROCESS PUMPS

ANSI B73.1 / ASME B73.1



GENVIK KEC series are tailor made pump to ensure process reliability, high efficiency and low operating costs. At the same time, the spare parts inventory and costs are kept to a minimum by means of standardization and inter-changeability of spares among the ranges. These pumps are offered with back pull out design considering easy maintenance and repair.

These pumps are specially designed to handle corrosive, abrasive or high temperature liquids etc. These pumps provide excellent performance for tough applications including pumping of acids (Sulphuric Acid, Hydrochloric Acid, Nitric Acid, Citric Acid, Acetic Acid, etc.) and all alkalis (Sodium Hydroxide, Calcium Hydroxide, etc.), brines, caustics, bleaches, sea water, high temperature liquids and a wide variety of waste liquids for a wide range of applications including chemical, petrochemical, hot oil, ethanol, food, sugar, pharmaceuticals, metal finishing, waste water/effluent treatment, desalination and aquarium/aquaculture etc. These pumps are offered with semi-open type impellers fitted with flow inducing vane and balance hole to reduce high thrust and it is designed to give better performance even at high vapour pressure of the liquid. It can be offered with different type of material of construction as per liquid specifications.

These pumps design complies to ANSI B73.1/ ASME B73.1 standards. The ANSI B73.1 will ensure that other ANSI process pumps with similar sizes can be interchangeable. These pumps can also be offered with vertical execution type.

### FEATURES

ASME / ANSI B73.1 standard (OH1)
Back pull out design offered with semi open impeller
Maximum inter-changeability of spares to reduce the inventory cost
Balance relief hole on impeller to reduce the thrust
Customized material of construction against specific requirement
Lowest life cycle cost
Jacketed casing for hot liquids
Both mechanical seal and gland options

### APPLICATIONS

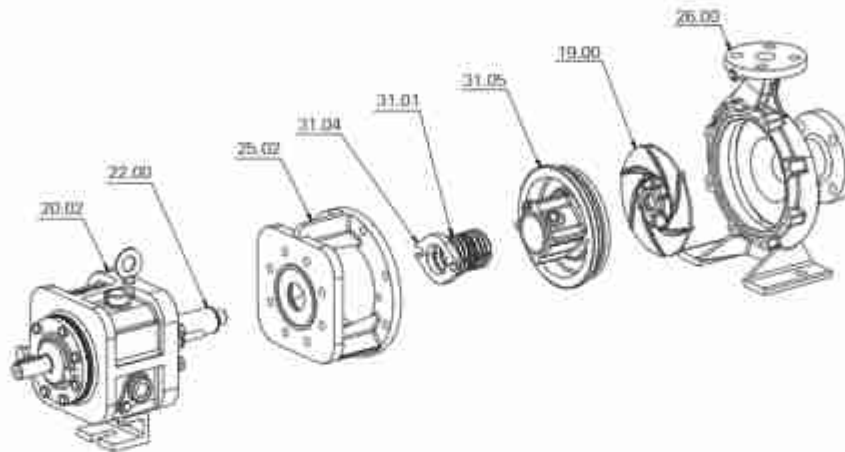
Power Generation, Chemical & Petrochemical
Oil & Gas, Desalination Plant
Water, Sewage & Effluent Treatment Plants
Steel & Automotive Industries, Paper and Pulp industries
Semiconductor Industries
Food processing, beverage & Dairy industries
Sugar Industries, Pharmaceuticals
Dying & Paint Industries, Mining
Edible oil refinery and General Industries.

The Given details / drawings / specifications are subject to change without prior notice.

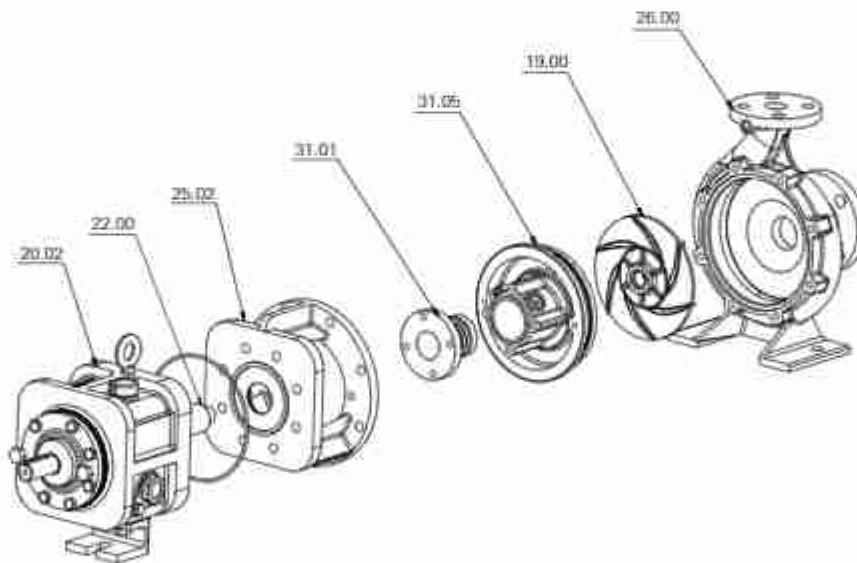
# END SUCTION CHEMICAL PUMPS

## EXPLODED VIEW

### GLAND PACKING CONSTRUCTION



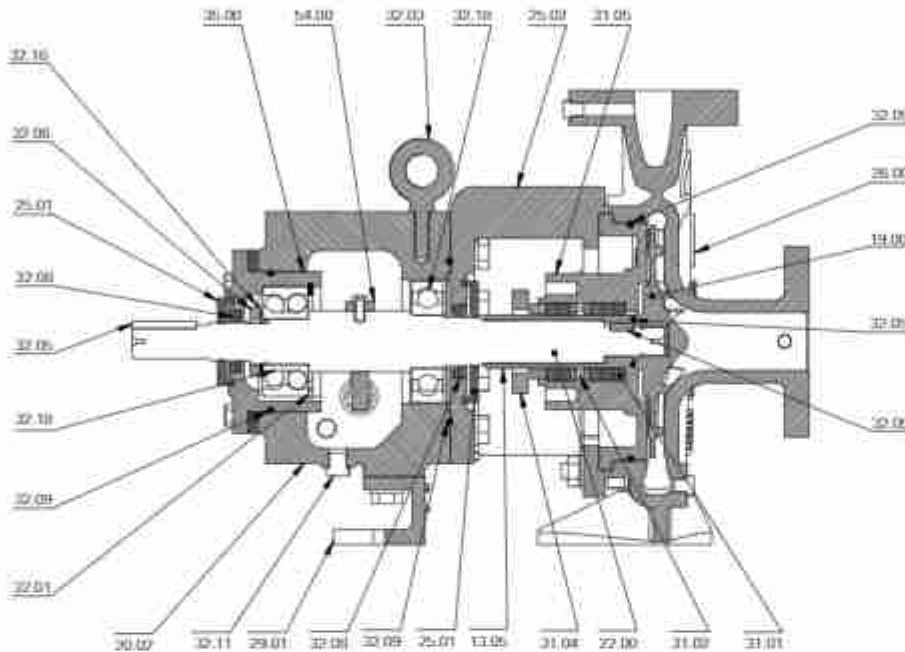
### MECHANICAL SEAL CONSTRUCTION



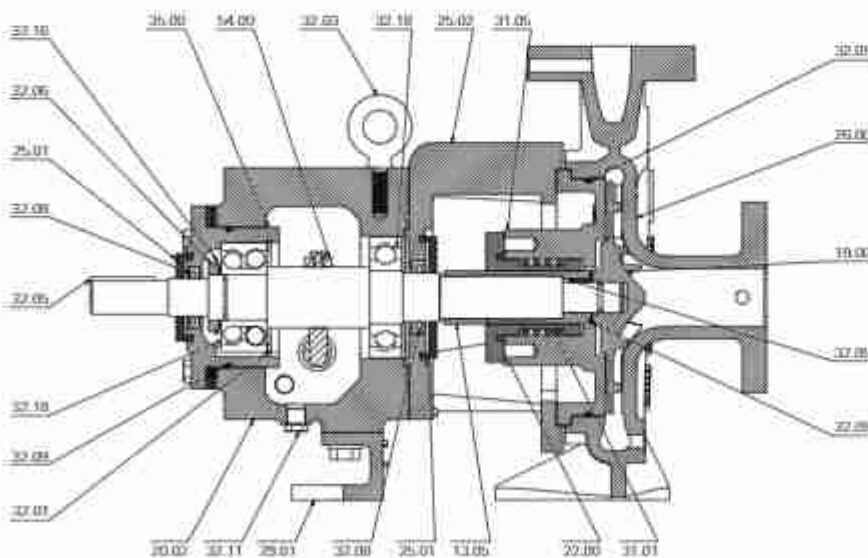
PART NO	PART NAME
26.00	CASING
19.00	IMPELLER
31.05	STUFFING BOX
31.01	PACKING / MECHANICAL SEAL
25.02	CONNECTING FRAME
20.02	BEARING FRAME
22.00	PUMP SHAFT
31.04	GLAND

CROSS SECTIONAL DRAWING

GLAND PACKING CONSTRUCTION

























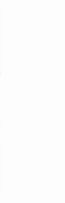








MECHANICAL SEAL CONSTRUCTION



Part No	Part Name
32.11	Plug
20.02	Bearing Frame
32.01	Circlip
32.18	Bearing
32.06	Lock Nut
32.16	Washer
35.00	Bearing Housing
54.00	Thrower
32.03	Eye Bolt
25.02	Connecting Frame
31.05	Stuffing Box
32.09	O-Ring
26.00	Casing
19.00	Impeller
32.05	Key
31.01	Packing / Mechanical Seal
31.02	Lantern Ring
22.00	Pump Shaft
31.04	Gland
13.05	Sleeve
25.01	Deflector
32.08	Oil Seal
29.01	Frame Support

































# END SUCTION CHEMICAL PUMPS

## INTERCHANGEABILITY CHART

PART NAME	1.5 x 1 x 6 (40 x 25 x 150)	3 x 1.5 x 6 (80 x 40 x 150)	3 x 2 x 6 (80 x 50 x 150)	1.5 x 1 x 8 (40 x 25 x 200)	3 x 1.5 x 8 (80 x 40 x 200)	2 x 1 x 10 (50 x 25 x 250)	3 x 1.5 x 8.5 (80 x 40 x 215)	3 x 2 x 8.5 (80 x 50 x 215)	4 x 3 x 8.5 (100 x 80 x 215)	6 x 4 x 8.5 (150 x 100 x 215)
CASING										
IMPELLER										
STUFFING BOX										
CONNECTING FRAME										
BEARING FRAME ASSEMBLY										



**INTERCHANGEABILITY CHART**

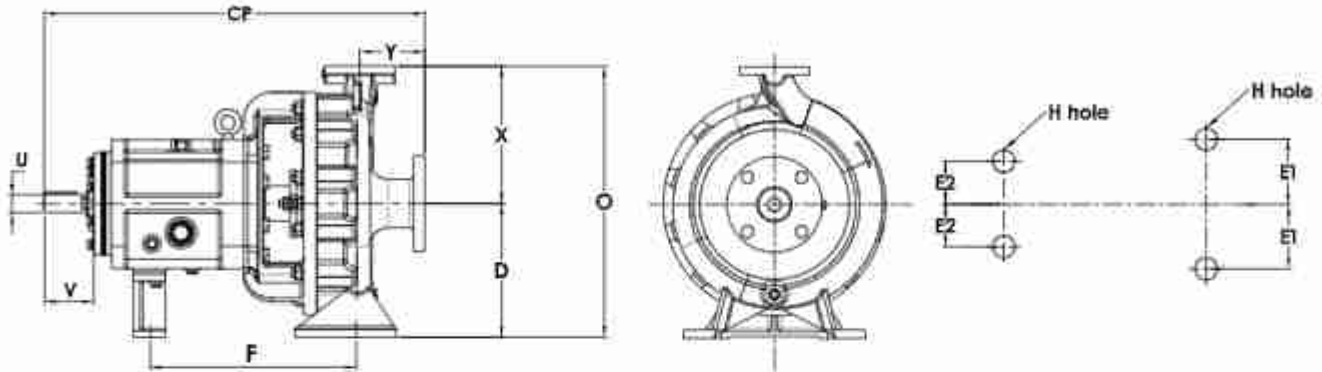
PART NAME	3x1.5x11 (80 x 40 x 280)	3x2x11 (80 x 50 x 280)	4x3x11 (100 x 80 x 280)	3x1.5x13 (80 x 40 x 320)	3x2x13 (80 x 50 x 320)	4x3x13 (100 x 80 x 320)	5x4x13 (100 x 100 x 320)	8x6x13 (200 x 150 x 320)	8x6x15 (200 x 150 x 360)	10x8x13 (250 x 200 x 320)	10x8x15 (250 x 200 x 360)
CASING											
IMPELLER											
STUFFING BOX											
CONNECTING FRAME											
BEARING FRAME ASSEMBLY											

# END SUCTION CHEMICAL PUMPS

## DETAILS OF STANDARD COMPONENTS

SHAFT AND BEARING DATA	FRAME SIZE		
	I	II	III
SHAFT DIAMETER (mm)			
At Coupling	Ø 22.23	Ø 28.58	Ø 60.33
At 'NDE' Bearings	Ø 35	Ø 55	Ø 85
At 'DE' Bearings	Ø 30	Ø 45	Ø 75
Between bearings	Ø 40.13	Ø 60	Ø 92.1
Under Sleeve	Ø 27.97	Ø 45	Ø 60
Stuffing Box Details			
Shaft sleeve OD	Ø 35	Ø 55	Ø 70
Stuffing Box Bore Diameter	Ø 50.5	Ø 74.5	Ø 94.5
Stuffing Box Depth	57	67	91
SHAFT LENGTHS (mm)			
Impeller end of shaft to 'NDE' Bearing	165.95	218.25	297
Between bearings	67.4	128.75	172
'DE' Bearing To Coupling end	116	150	247.5
BEARINGS			
'NDE'	6307	6311	6317
'DE'	3306	7309 (2 Bearings back to back)	3315
KEYWAY AT COUPLING (mm)			
Width	4.76	6.35	15.88
Depth	2.38	3.18	9.15
Length	40	50	90
SHAFT THREAD AT IMPELLER	M20X1.5 RH	M24X2 RH	M45X1.5 RH

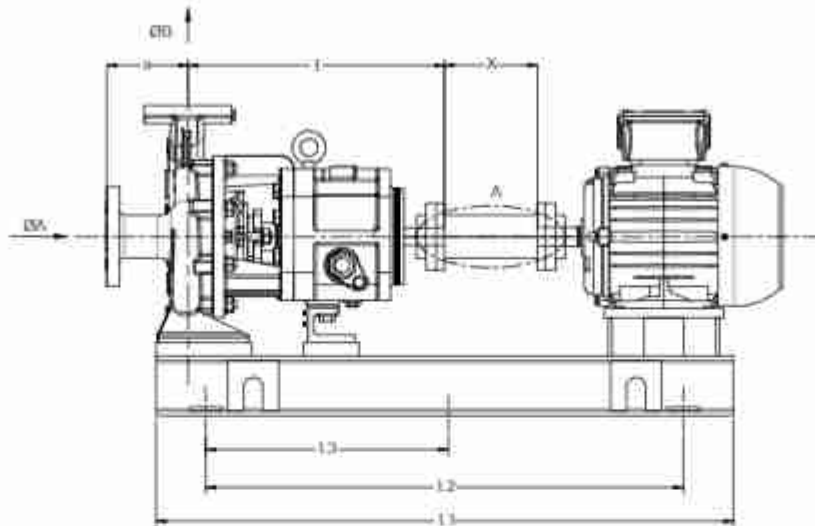
MOUNTING DIMENSION - PUMP



Pump Size in inch (mm)	Flange Dim. in mm		Dimension in mm										
	Suction	Delivery	CP	D	ZE1	ZE2	F	H	X	Y	O	V	U (Dia.)
1.5 x 1 x 6 (40 x 25 x 150)	40	25	445	133	152	0	184	16	165	102	298	51	22.23
3 x 1.5 x 6 (80 x 40 x 150)	80	40	445	133	152	0	184	16	165	102	298	51	22.23
3 x 2 x 6 (80 x 50 x 150)	80	50	445	133	152	0	184	16	165	102	298	51	22.23
1.5 x 1 x 8 (40 x 25 x 200)	40	25	445	133	152	0	184	16	165	102	298	51	22.23
3 x 1.5 x 8 (80 x 40 x 200)	80	40	445	133	248	0	184	16	165	102	298	51	22.23
2 x 1 x 10 (50 x 25 x 250)	50	25	597	210	248	184	318	16	216	102	425	67	28.58
3 x 1.5 x 8.5 (80 x 40 x 215)	80	40	597	210	248	184	318	16	216	102	425	67	28.58
3 x 2 x 8.5 (80 x 50 x 215)	80	50	597	210	248	184	318	16	242	102	450	67	28.58
4 x 3 x 8.5 (100 x 80 x 215)	100	80	597	210	248	184	318	16	260	102	490	67	28.58
6 x 4 x 8.5 (150 x 100 x 215)	150	100	597	210	248	184	318	16	280	102	490	67	28.58
3 x 1.5 x 11 (80 x 40 x 280)	80	40	597	254	248	184	318	16	267	102	520	67	28.58
3 x 2 x 11 (80 x 50 x 280)	80	50	597	254	248	184	318	16	292	102	546	67	28.58
4 x 3 x 11 (100 x 80 x 280)	100	80	597	254	248	184	318	16	318	102	571	67	28.58
3 x 1.5 x 13 (80 x 40 x 330)	80	40	597	254	248	184	318	16	266	102	520	67	28.58
3 x 2 x 13 (80 x 50 x 330)	80	50	597	254	248	184	318	16	292	102	546	67	28.58
4 x 3 x 13 (100 x 80 x 330)	100	80	597	254	248	184	318	16	318	102	572	67	28.58
6 x 4 x 13 (150 x 100 x 330)	150	100	597	254	248	184	318	16	343	102	597	67	28.58
8 x 6 x 13 (200 x 150 x 330)	200	150	860	368	406	229	478	22	406	152	775	102	60.33
8 x 6 x 15 (200 x 150 x 380)	200	150	860	368	406	229	478	22	457	152	826	102	60.33
10 x 8 x 13 (250 x 200 x 330)	250	200	860	368	406	229	478	22	483	152	851	102	60.33
10 x 8 x 15 (250 x 200 x 380)	250	200	860	368	406	229	478	22	483	152	851	102	60.33

# END SUCTION CHEMICAL PUMPS

## MOUNTING DIMENSION - PUMPSET



Pump Model	Motor Rating (kW)		Motor Frame Size	Nominal Size (Ø A)	Outside Diameter	Pitch Circle Diameter	No. of Holes	Hole Diameter	Nominal Size (Ø B)	Outside Diameter	Pitch Circle Diameter	No. Holes	
	1450 rpm	2900 rpm											
KTC	1.5X100	0.75	0.75/1.1	80	40	125	90.4	4	15.9	25	110	79.4	4
	1.5X100	1.1	1.5	90S	40	125	90.4	4	15.9	25	110	79.4	4
	1.5X100	1.5	2.2	90L	40	125	90.4	4	15.9	25	110	79.4	4
	1.5X100	2.2	3.7	100L	40	125	90.4	4	15.9	25	110	79.4	4
	1.5X100	3.7	5.5	112M	40	125	90.4	4	15.9	25	110	79.4	4
	1.5X100	5.5	7.5	132S	40	125	90.4	4	15.9	25	110	79.4	4
1.5X100	7.5	9.3	132M	40	125	90.4	4	15.9	25	110	79.4	4	
KTC	30X1500	0.75	0.75/1.1	80	80	190	152.4	4	19.1	40	125	98.4	4
	30X1500	1.1	1.5	90S	80	190	152.4	4	19.1	40	125	98.4	4
	30X1500	1.5	2.2	90L	80	190	152.4	4	19.1	40	125	98.4	4
	30X1500	2.2	3.7	100L	80	190	152.4	4	19.1	40	125	98.4	4
	30X1500	3.7	5.5	112M	80	190	152.4	4	19.1	40	125	98.4	4
	30X1500	5.5	7.5	132S	80	190	152.4	4	19.1	40	125	98.4	4
30X1500	7.5	9.3	132M	80	190	152.4	4	19.1	40	125	98.4	4	
KTC	30Z90	0.75	0.75/1.1	80	80	190	152.4	4	19.1	50	150	120.7	4
	30Z90	1.1	1.5	90S	80	190	152.4	4	19.1	50	150	120.7	4
	30Z90	1.5	2.2	90L	80	190	152.4	4	19.1	50	150	120.7	4
	30Z90	2.2	3.7	100L	80	190	152.4	4	19.1	50	150	120.7	4
	30Z90	3.7	5.5	112M	80	190	152.4	4	19.1	50	150	120.7	4
	30Z90	5.5	7.5	132S	80	190	152.4	4	19.1	50	150	120.7	4
30Z90	7.5	9.3	132M	80	190	152.4	4	19.1	50	150	120.7	4	
KTC	1.5X100	0.75	0.75/1.1	80	40	125	90.4	4	15.9	25	110	79.4	4
	1.5X100	1.1	1.5	90S	40	125	90.4	4	15.9	25	110	79.4	4
	1.5X100	1.5	2.2	90L	40	125	90.4	4	15.9	25	110	79.4	4
	1.5X100	2.2	3.7	100L	40	125	90.4	4	15.9	25	110	79.4	4
	1.5X100	3.7	5.5	112M	40	125	90.4	4	15.9	25	110	79.4	4
	1.5X100	5.5	7.5	132S	40	125	90.4	4	15.9	25	110	79.4	4
1.5X100	7.5	9.3	132M	40	125	90.4	4	15.9	25	110	79.4	4	
KTC	30X1500	0.75	0.75/1.1	80	80	190	152.4	4	19.1	40	125	98.4	4
	30X1500	1.1	1.5	90S	80	190	152.4	4	19.1	40	125	98.4	4
	30X1500	1.5	2.2	90L	80	190	152.4	4	19.1	40	125	98.4	4
	30X1500	2.2	3.7	100L	80	190	152.4	4	19.1	40	125	98.4	4
	30X1500	3.7	5.5	112M	80	190	152.4	4	19.1	40	125	98.4	4
	30X1500	5.5	7.5	132S	80	190	152.4	4	19.1	40	125	98.4	4
30X1500	7.5	9.3	132M	80	190	152.4	4	19.1	40	125	98.4	4	
KTC	20X100	5.5	7.5	132S	50	150	120.7	4	19.1	26	110	79.4	4
	20X100	7.5	9.3	132M	50	150	120.7	4	19.1	26	110	79.4	4
	20X100	11	11.15	160M	50	150	120.7	4	19.1	26	110	79.4	4
	20X100	15	16.5	180L	50	150	120.7	4	19.1	26	110	79.4	4
	20X100	19.5	22	180M	50	150	120.7	4	19.1	26	110	79.4	4
	20X100	22		180L	50	150	120.7	4	19.1	26	110	79.4	4
	20X100	30	30.37	200L	50	150	120.7	4	19.1	26	110	79.4	4
	20X100	37		225S	50	150	120.7	4	19.1	26	110	79.4	4
	20X100	45		225M	50	150	120.7	4	19.1	26	110	79.4	4
	20X100	45		225M	50	150	120.7	4	19.1	26	110	79.4	4



# END SUCTION CHEMICAL PUMPS

## MOUNTING DIMENSION - PUMPSET

Pump Model	Motor Rating (KW)		Motor Frame Size	Nominal Size (Ø A)	Outside Diameter	Pitch Circle Diameter	No. of Holes	Hole Diameter	Nominal Size (Ø B)	Outside Diameter	Pitch Circle Diameter	No. Holes	
	1450 rpm	2800 rpm											
KEC	301.500.5	5.5	7.5	132S	76	190	152.4	4	19.1	30	125	98.4	4
	301.500.5	7.5,9.3	9.3	132M	76	190	152.4	4	19.1	30	125	98.4	4
	301.500.5	11	11.15	160M	76	190	152.4	4	19.1	30	125	98.4	4
	301.500.5	15	16.5	160L	76	190	152.4	4	19.1	30	125	98.4	4
	301.500.5	18.5	22	180M	76	190	152.4	4	19.1	30	125	98.4	4
	301.500.5	22		180L	76	190	152.4	4	19.1	30	125	98.4	4
	301.500.5	30	30.37	200L	76	190	152.4	4	19.1	30	125	98.4	4
	301.500.5	37		225S	76	190	152.4	4	19.1	30	125	98.4	4
	301.500.5	45	45	225M	76	190	152.4	4	19.1	30	125	98.4	4
KEC	30200.5	5.5	7.5	132S	76	190	152.4	4	19.1	52	150	120.7	4
	30200.5	7.5,9.3	9.3	132M	76	190	152.4	4	19.1	52	150	120.7	4
	30200.5	11	11.15	160M	76	190	152.4	4	19.1	52	150	120.7	4
	30200.5	15	16.5	160L	76	190	152.4	4	19.1	52	150	120.7	4
	30200.5	18.5	22	180M	76	190	152.4	4	19.1	52	150	120.7	4
	30200.5	22		180L	76	190	152.4	4	19.1	52	150	120.7	4
	30200.5	30	30.37	200L	76	190	152.4	4	19.1	52	150	120.7	4
	30200.5	37		225S	76	190	152.4	4	19.1	52	150	120.7	4
	30200.5	45	45	225M	76	190	152.4	4	19.1	52	150	120.7	4
KEC	40000.5	5.5	7.5	132S	102	230	190.5	6	19.1	76	190	152.4	4
	40000.5	7.5,9.3	9.3	132M	102	230	190.5	6	19.1	76	190	152.4	4
	40000.5	11	11.15	160M	102	230	190.5	6	19.1	76	190	152.4	4
	40000.5	15	16.5	160L	102	230	190.5	6	19.1	76	190	152.4	4
	40000.5	18.5	22	180M	102	230	190.5	6	19.1	76	190	152.4	4
	40000.5	22		180L	102	230	190.5	6	19.1	76	190	152.4	4
	40000.5	30	30.37	200L	102	230	190.5	6	19.1	76	190	152.4	4
	40000.5	37		225S	102	230	190.5	6	19.1	76	190	152.4	4
	40000.5	45	45	225M	102	230	190.5	6	19.1	76	190	152.4	4
KEC	60000.5	5.5	7.5	132S	102	290	241.3	6	22.2	100	230	190.5	6
	60000.5	7.5,9.3	9.3	132M	102	290	241.3	6	22.2	100	230	190.5	6
	60000.5	11	11.15	160M	102	290	241.3	6	22.2	100	230	190.5	6
	60000.5	15	16.5	160L	102	290	241.3	6	22.2	100	230	190.5	6
	60000.5	18.5	22	180M	102	290	241.3	6	22.2	100	230	190.5	6
	60000.5	22		180L	102	290	241.3	6	22.2	100	230	190.5	6
	60000.5	30	30.37	200L	102	290	241.3	6	22.2	100	230	190.5	6
	60000.5	37		225S	152	290	241.3	6	22.2	100	230	190.5	6
	60000.5	45	45	225M	152	290	241.3	6	22.2	100	230	190.5	6
KEC	301.501.1		5.5	112M	76	190	152.4	4	19.1	30	125	98.4	4
	301.501.1		5.5	132S	76	190	152.4	4	19.1	30	125	98.4	4
	301.501.1		7.5,9.3	132M	76	190	152.4	4	19.1	30	125	98.4	4
	301.501.1		11	160M	76	190	152.4	4	19.1	30	125	98.4	4
	301.501.1		15	160L	76	190	152.4	4	19.1	30	125	98.4	4
	301.501.1		18.5	180M	76	190	152.4	4	19.1	30	125	98.4	4
	301.501.1		22	180L	76	190	152.4	4	19.1	30	125	98.4	4
	301.501.1		30	200L	76	190	152.4	4	19.1	30	125	98.4	4
	301.501.1		30,37	200L	76	190	152.4	4	19.1	30	125	98.4	4

MOUNTING DIMENSION - PUMPSET

Hole Diameter	a	b1	b2	f	a+H	Channel height	C1 Height	H	h1	h2	U	V	L1	L2	L3	L4	Z No's	S	X
15.9	102	300	264	495	597	75	302	295	210	216	142	154	1170	870	290	290	0	14	140
15.9	102	300	264	495	597	75	302	295	210	216	142	154	1210	906	302	302	0	14	140
15.9	102	340	304	495	597	75	302	295	210	216	142	154	1300	996	332	332	0	14	140
15.9	102	330	294	495	597	100	327	295	210	216	142	154	1360	1060	350	350	0	10	140
15.9	102	375	330	495	597	100	327	295	210	216	142	154	1390	1080	360	360	0	10	140
15.9	102	375	329	495	597	100	327	295	210	216	142	154	1420	1116	372	372	0	10	140
15.9	102	400	355	495	597	100	327	295	210	216	142	154	1500	1161	387	387	0	10	140
15.9	102	450	405	495	597	100	327	295	210	216	142	154	1550	1209	403	403	0	10	140
15.9	102	450	405	495	597	100	327	295	210	216	142	154	1590	1229	413	413	0	10	140
19.1	102	300	264	495	597	75	302	295	210	242	150	177	1170	870	290	290	0	14	140
19.1	102	300	264	495	597	75	302	295	210	242	150	177	1210	906	302	302	0	14	140
19.1	102	340	304	495	597	75	302	295	210	242	150	177	1300	996	332	332	0	14	140
19.1	102	330	294	495	597	100	327	295	210	242	150	177	1360	1050	350	350	0	10	140
19.1	102	375	330	495	597	100	327	295	210	242	150	177	1390	1080	360	360	0	10	140
19.1	102	375	329	495	597	100	327	295	210	242	150	177	1420	1110	372	372	0	10	140
19.1	102	400	355	495	597	100	327	295	210	242	150	177	1500	1161	387	387	0	10	140
19.1	102	450	405	495	597	100	327	295	210	242	150	177	1550	1209	403	403	0	10	140
19.1	102	450	405	495	597	100	327	295	210	242	150	177	1590	1229	413	413	0	10	140
19.1	102	300	264	495	597	75	302	295	210	280	158	183	1170	870	290	290	0	14	140
19.1	102	300	264	495	597	75	302	295	210	280	158	183	1210	906	302	302	0	14	140
19.1	102	340	304	495	597	75	302	295	210	280	158	183	1300	996	332	332	0	14	140
19.1	102	330	294	495	597	100	327	295	210	280	158	183	1360	1050	350	350	0	10	140
19.1	102	375	330	495	597	100	327	295	210	280	158	183	1390	1080	360	360	0	10	140
19.1	102	375	329	495	597	100	327	295	210	280	158	183	1420	1116	372	372	0	10	140
19.1	102	400	355	495	597	100	327	295	210	280	158	183	1500	1161	387	387	0	10	140
19.1	102	450	405	495	597	100	327	295	210	280	158	183	1550	1209	403	403	0	10	140
19.1	102	450	405	495	597	100	327	295	210	280	158	183	1590	1229	413	413	0	10	140
19.1	102	300	264	495	597	75	302	295	210	280	172	202	1170	870	290	290	0	14	140
19.1	102	300	264	495	597	75	302	295	210	280	172	202	1210	906	302	302	0	14	140
19.1	102	340	304	495	597	75	302	295	210	280	172	202	1300	996	332	332	0	14	140
19.1	102	330	294	495	597	100	327	295	210	280	172	202	1360	1050	350	350	0	10	140
19.1	102	375	330	495	597	100	327	295	210	280	172	202	1390	1080	360	360	0	10	140
19.1	102	375	329	495	597	100	327	295	210	280	172	202	1420	1116	372	372	0	10	140
19.1	102	400	355	495	597	100	327	295	210	280	172	202	1500	1161	387	387	0	10	140
19.1	102	450	405	495	597	100	327	295	210	280	172	202	1550	1209	403	403	0	10	140
19.1	102	450	405	495	597	100	327	295	210	280	172	202	1590	1229	413	413	0	10	140
15.9	102	300	264	495	597	75	348	329	254	267	170	192	1120	810	272	272	0	14	140
15.9	102	300	264	495	597	75	348	329	254	267	170	192	1190	870	290	290	0	14	140
15.9	102	300	264	495	597	75	348	329	254	267	170	192	1220	901	307	307	0	14	140
15.9	102	340	304	495	597	75	348	329	254	267	170	192	1310	1020	340	340	0	14	140
15.9	102	330	294	495	597	100	371	329	254	267	170	192	1360	1065	355	355	0	10	140
15.9	102	375	330	495	597	100	371	329	254	267	170	192	1390	1095	365	365	0	10	140
15.9	102	375	329	495	597	100	371	329	254	267	170	192	1430	1121	377	377	0	10	140
15.9	102	400	355	495	597	100	371	329	254	267	170	192	1530	1191	397	397	0	10	140

# END SUCTION CHEMICAL PUMPS

## MOUNTING DIMENSION - PUMPSET

Pump Model		Motor Rating (kW)		Motor Frame Size	Nominal Size (Ø A)	Outside Diameter	Pitch Circle Diameter	No. of Holes	Hole Diameter	Nominal Size (Ø B)	Outside Diameter	Pitch Circle Diameter	No. Holes	
		1450 rpm	2900 rpm											
KEC	301.5X11	20		225S	76	190	152.4	4	19.1	38	125	98.4	4	
	301.5X11	45	45	225M	76	190	152.4	4	19.1	38	125	98.4	4	
KEC	302X11		5.5	112M	76	190	152.4	4	19.1	50	150	120.7	4	
	302X11		6.5	132S	76	190	152.4	4	19.1	50	150	120.7	4	
	302X11		7.5, 9.3	132M	76	190	152.4	4	19.1	50	150	120.7	4	
	302X11		11	11, 15	160M	76	190	152.4	4	19.1	50	150	120.7	4
	302X11		15	10.5	160L	76	190	152.4	4	19.1	50	150	120.7	4
	302X11		18.5	22	180M	76	190	152.4	4	19.1	50	150	120.7	4
	302X11		22		180L	76	190	152.4	4	19.1	50	150	120.7	4
	302X11		30	30, 37	200L	76	190	152.4	4	19.1	50	150	120.7	4
	302X11		37		225S	76	190	152.4	4	19.1	50	150	120.7	4
	302X11		45	45	225M	76	190	152.4	4	19.1	50	150	120.7	4
KEC	403X11		5.5	112M	101	230	190.5	0	19.1	76	190	152.4	4	
	403X11		5.5	132S	101	230	190.5	0	19.1	76	190	152.4	4	
	403X11		7.5, 9.3	132M	101	230	190.5	0	19.1	76	190	152.4	4	
	403X11		11	11, 15	160M	101	230	190.5	0	19.1	76	190	152.4	4
	403X11		15	10.5	160L	101	230	190.5	0	19.1	76	190	152.4	4
	403X11		18.5	22	180M	101	230	190.5	0	19.1	76	190	152.4	4
	403X11		22		180L	101	230	190.5	0	19.1	76	190	152.4	4
	403X11		30	30, 37	200L	101	230	190.5	0	19.1	76	190	152.4	4
	403X11		37		225S	101	230	190.5	0	19.1	76	190	152.4	4
	403X11		45	45	225M	101	230	190.5	0	19.1	76	190	152.4	4
KEC	3X1.5X13		5.5	112M	76	190	152.4	4	19.1	38	125	98.4	4	
	3X1.5X13		6.5	132S	76	190	152.4	4	19.1	38	125	98.4	4	
	3X1.5X13		7.5, 9.3	132M	76	190	152.4	4	19.1	38	125	98.4	4	
	3X1.5X13		11	11, 15	160M	76	190	152.4	4	19.1	38	125	98.4	4
	3X1.5X13		15	10.5	160L	76	190	152.4	4	19.1	38	125	98.4	4
	3X1.5X13		18.5	22	180M	76	190	152.4	4	19.1	38	125	98.4	4
	3X1.5X13		22		180L	76	190	152.4	4	19.1	38	125	98.4	4
	3X1.5X13		30	30, 37	200L	76	190	152.4	4	19.1	38	125	98.4	4
	3X1.5X13		37		225S	76	190	152.4	4	19.1	38	125	98.4	4
	3X1.5X13		45	45	225M	76	190	152.4	4	19.1	38	125	98.4	4
KEC	302X13		5.5	112M	76	190	152.4	4	19.1	50	150	120.7	4	
	302X13		6.5	132S	76	190	152.4	4	19.1	50	150	120.7	4	
	302X13		7.5, 9.3	132M	76	190	152.4	4	19.1	50	150	120.7	4	
	302X13		11	11, 15	160M	76	190	152.4	4	19.1	50	150	120.7	4
	302X13		15	10.5	160L	76	190	152.4	4	19.1	50	150	120.7	4
	302X13		18.5	22	180M	76	190	152.4	4	19.1	50	150	120.7	4
	302X13		22		180L	76	190	152.4	4	19.1	50	150	120.7	4
	302X13		30	30, 37	200L	76	190	152.4	4	19.1	50	150	120.7	4
	302X13		37		225S	76	190	152.4	4	19.1	50	150	120.7	4
	302X13		45	45	225M	76	190	152.4	4	19.1	50	150	120.7	4
KEC	403X13		5.5	112M	101	230	190.5	0	19.1	76	190	152.4	4	
	403X13		5.5	132S	101	230	190.5	0	19.1	76	190	152.4	4	



MOUNTING DIMENSION - PUMPSET

Hole Diameter	a	b1	b2	f	a+l	Channel height	C Height	H	Nt	N2	B	V	L1	L2	L3	L4	Z Nos	S	X
15.3	102	450	406	495	597	100	371	329	254	297	170	192	1520	1229	413	413	0	10	140
15.3	102	450	406	495	597	100	371	329	254	297	170	192	1600	1290	420	420	0	10	140
19.1	102	300	294	495	597	75	346	329	254	292	167	206	1120	870	273	273	0	14	140
19.1	102	300	294	495	597	75	346	329	254	292	167	206	1180	870	290	290	0	14	140
19.1	102	300	294	495	597	75	346	329	254	292	167	206	1220	921	307	307	0	14	140
19.1	102	340	304	495	597	75	346	329	254	292	167	206	1310	1020	340	340	0	14	140
19.1	102	330	294	495	597	100	371	329	254	292	167	206	1380	1065	355	355	0	10	140
19.1	102	375	330	495	597	100	371	329	254	292	167	206	1390	1095	365	365	0	10	140
19.1	102	375	329	495	597	100	371	329	254	292	167	206	1430	1131	377	377	0	10	140
19.1	102	400	355	495	597	100	371	329	254	292	167	206	1520	1191	397	397	0	10	140
19.1	102	450	406	495	597	100	371	329	254	292	167	206	1580	1239	413	413	0	10	140
19.1	102	450	406	495	597	100	371	329	254	292	167	206	1600	1260	420	420	0	10	140
19.1	102	300	294	495	597	75	346	329	254	318	189	210	1120	870	273	273	0	14	140
19.1	102	300	294	495	597	75	346	329	254	318	189	210	1180	870	290	290	0	14	140
19.1	102	300	294	495	597	75	346	329	254	318	189	210	1220	921	307	307	0	14	140
19.1	102	340	304	495	597	75	346	329	254	318	189	210	1310	1020	340	340	0	14	140
19.1	102	330	294	495	597	100	371	329	254	318	189	210	1380	1065	355	355	0	10	140
19.1	102	375	330	495	597	100	371	329	254	318	189	210	1390	1095	365	365	0	10	140
19.1	102	375	329	495	597	100	371	329	254	318	189	210	1430	1131	377	377	0	10	140
19.1	102	400	355	495	597	100	371	329	254	318	189	210	1500	1191	397	397	0	10	140
19.1	102	450	406	495	597	100	371	329	254	318	189	210	1580	1239	413	413	0	10	140
19.1	102	450	406	495	597	100	371	329	254	318	189	210	1600	1260	420	420	0	10	140
15.3	102	300	294	495	597	75	346	329	254	366	202	215	1120	870	273	273	0	14	140
15.3	102	300	294	495	597	75	346	329	254	366	202	215	1180	870	290	290	0	14	140
15.3	102	300	294	495	597	75	346	329	254	366	202	215	1220	921	307	307	0	14	140
15.3	102	340	304	495	597	75	346	329	254	366	202	215	1310	1020	340	340	0	14	140
15.3	102	330	294	495	597	100	371	329	254	366	202	215	1380	1065	355	355	0	10	140
15.3	102	375	330	495	597	100	371	329	254	366	202	215	1390	1095	365	365	0	10	140
15.3	102	375	329	495	597	100	371	329	254	366	202	215	1430	1131	377	377	0	10	140
15.3	102	400	355	495	597	100	371	329	254	366	202	215	1520	1191	397	397	0	10	140
15.3	102	450	406	495	597	100	371	329	254	366	202	215	1580	1239	413	413	0	10	140
15.3	102	450	406	495	597	100	371	329	254	366	202	215	1600	1260	420	420	0	10	140
19.3	102	300	294	495	597	75	346	329	254	290	200	220	1120	870	273	273	0	14	140
19.3	102	300	294	495	597	75	346	329	254	290	208	220	1180	870	290	290	0	14	140
19.3	102	300	294	495	597	75	346	329	254	290	208	220	1220	921	307	307	0	14	140
19.3	102	340	304	495	597	75	346	329	254	290	208	220	1310	1020	340	340	0	14	140
19.3	102	330	294	495	597	100	371	329	254	290	208	220	1380	1065	355	355	0	10	140
19.3	102	375	330	495	597	100	371	329	254	290	208	220	1390	1095	365	365	0	10	140
19.3	102	375	329	495	597	100	371	329	254	290	208	220	1430	1131	377	377	0	10	140
19.3	102	400	355	495	597	100	371	329	254	292	208	220	1500	1191	397	397	0	10	140
19.3	102	450	406	495	597	100	371	329	254	292	200	220	1580	1239	413	413	0	10	140
19.3	102	450	406	495	597	100	371	329	254	292	200	220	1600	1260	420	420	0	10	140
19.3	102	300	294	495	597	75	346	329	254	310	220	240	1120	870	273	273	0	14	140
19.3	102	300	294	495	597	75	346	329	254	310	220	240	1180	870	290	290	0	14	140

# END SUCTION CHEMICAL PUMPS

## MOUNTING DIMENSION - PUMPSET

Pump Model	Motor Rating (kW)		Motor Frame Size	Nominal Size (Ø A)	Outside Diameter	Pitch Circle Diameter	No. of Holes	Hole Diameter	Nominal Size (Ø B)	Outside Diameter	Pitch Circle Diameter	No. Holes		
	1450 rpm	2900 rpm												
KEC	4KCR13	7.5/9.3	9.3	112M	101	230	190.5	Ø	19.1	76	190	152.4	4	
	4KCR13	11	11.15	160M	101	230	190.5	Ø	19.1	76	190	152.4	4	
	4KCR13	15	16.5	160L	101	230	190.5	Ø	19.1	76	190	152.4	4	
	4KCR13	18.5	22	180M	101	230	190.5	Ø	19.1	76	190	152.4	4	
	4KCR13	22		180L	101	230	190.5	Ø	19.1	76	190	152.4	4	
	4KCR13	30	30.37	200L	101	230	190.5	Ø	19.1	76	190	152.4	4	
	4KCR13	37		225S	101	230	190.5	Ø	19.1	76	190	152.4	4	
	4KCR13	45	45	225M	101	230	190.5	Ø	19.1	76	190	152.4	4	
KEC	6KCR13		5.5	112M	152	280	241.3	Ø	22.2	102	230	190.5	Ø	
	6KCR13	5.5	7.5	132S	152	280	241.3	Ø	22.2	102	230	190.5	Ø	
	6KCR13	7.5/9.3	9.3	112M	152	280	241.3	Ø	22.2	102	230	190.5	Ø	
	6KCR13	11	11.15	160M	152	280	241.3	Ø	22.2	102	230	190.5	Ø	
	6KCR13	15	16.5	160L	152	280	241.3	Ø	22.2	102	230	190.5	Ø	
	6KCR13	18.5	22	180M	152	280	241.3	Ø	22.2	102	230	190.5	Ø	
	6KCR13	22		180L	152	280	241.3	Ø	22.2	102	230	190.5	Ø	
	6KCR13	30	30.37	200L	152	280	241.3	Ø	22.2	102	230	190.5	Ø	
KEC	8KCR10		5.5	112M	127	255	215.9	Ø	22.2	100	230	190.5	Ø	
	8KCR10	5.5	7.5	132S	127	255	215.9	Ø	22.2	100	230	190.5	Ø	
	8KCR10	7.5/9.3	9.3	112M	127	255	215.9	Ø	22.2	100	230	190.5	Ø	
	8KCR10	11	11.15	160M	127	255	215.9	Ø	22.2	100	230	190.5	Ø	
	8KCR10	15	16.5	160L	127	255	215.9	Ø	22.2	100	230	190.5	Ø	
	8KCR10	18.5	22	180M	127	255	215.9	Ø	22.2	100	230	190.5	Ø	
	8KCR10	22		180L	127	255	215.9	Ø	22.2	100	230	190.5	Ø	
	8KCR10	30	30.37	200L	127	255	215.9	Ø	22.2	100	230	190.5	Ø	
KEC	10KCR13		22	180L	202	345	298.5	Ø	22.2	152	280	241.3	Ø	
	10KCR13	22	30	200L	202	345	298.5	Ø	22.2	152	280	241.3	Ø	
	10KCR13		37	225S	202	345	298.5	Ø	22.2	152	280	241.3	Ø	
	10KCR13	30	45	225M	202	345	298.5	Ø	22.2	152	280	241.3	Ø	
	10KCR13	37	55	250M	202	345	298.5	Ø	22.2	152	280	241.3	Ø	
	10KCR13	45	75	280S	202	345	298.5	Ø	22.2	152	280	241.3	Ø	
	10KCR15		22	180L	204	345	298.5	Ø	22.2	152	280	241.3	Ø	
	10KCR15	22	30	200L	204	345	298.5	Ø	22.2	152	280	241.3	Ø	
KEC	10KCR15		37	225S	204	345	298.5	Ø	22.2	152	280	241.3	Ø	
	10KCR15	30	45	225M	204	345	298.5	Ø	22.2	152	280	241.3	Ø	
	10KCR15	37	55	250M	204	345	298.5	Ø	22.2	152	280	241.3	Ø	
	10KCR15	45	75	280S	204	345	298.5	Ø	22.2	152	280	241.3	Ø	
	KEC	10KDC15		22	180L	255	405	382	12	25.4	200	345	298.5	Ø
		10KDC15	22	30	200L	255	405	382	12	25.4	200	345	298.5	Ø
10KDC15			37	225S	255	405	382	12	25.4	200	345	298.5	Ø	
10KDC15		30	45	225M	255	405	382	12	25.4	200	345	298.5	Ø	
10KDC15		37	55	250M	255	405	382	12	25.4	200	345	298.5	Ø	
10KDC15		45	75	280S	255	405	382	12	25.4	200	345	298.5	Ø	

MOUNTING DIMENSION - PUMPSET

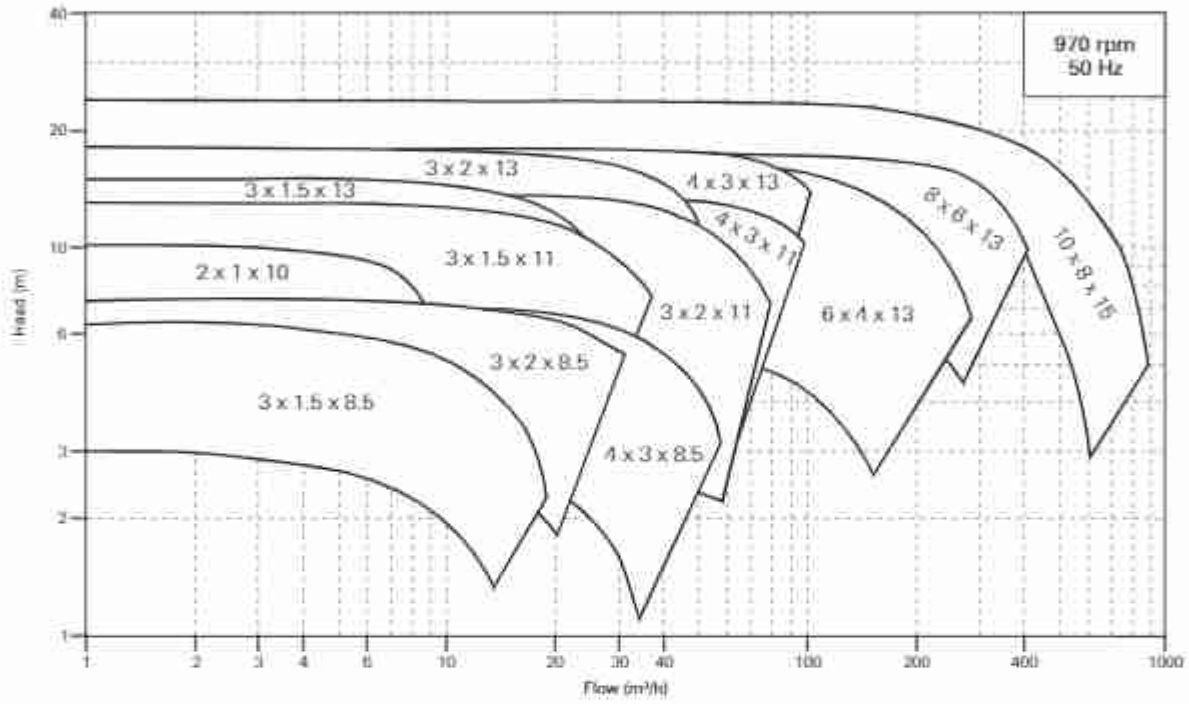
Hole Diameter	a	b1	b2	f	a + f	Channel height	Ct Height	H	h1	h2	U	V	L1	L2	L3	L4	Z No's	S	X
19.1	102	300	264	495	597	75	346	329	254	310	220	246	1220	921	307	307	H	14	140
19.1	102	340	304	495	597	75	346	329	254	310	220	246	1310	1020	340	340	H	14	140
19.1	102	330	294	495	597	100	371	329	254	310	220	246	1380	1085	355	355	H	18	140
19.1	102	375	330	495	597	100	371	329	254	310	220	246	1390	1095	365	365	H	18	140
19.1	102	375	329	495	597	160	371	329	254	310	220	246	1430	1131	377	377	H	18	140
19.1	102	400	355	495	597	100	371	329	254	310	220	246	1530	1181	397	397	H	18	140
19.1	102	450	405	495	597	100	371	329	254	310	220	246	1580	1239	413	413	H	18	140
19.1	102	450	405	495	597	100	371	329	254	310	220	246	1600	1260	420	420	H	18	140
19.1	102	300	264	495	597	75	346	329	254	343	222	270	1120	819	271	271	H	14	140
19.1	102	300	264	495	597	75	346	329	254	343	222	270	1100	800	290	290	H	14	140
19.1	102	300	264	495	597	75	346	329	254	343	222	270	1220	921	307	307	H	14	140
19.1	102	340	304	495	597	75	346	329	254	343	222	270	1310	1020	340	340	H	14	140
19.1	102	330	294	495	597	100	371	329	254	343	222	270	1380	1085	355	355	H	18	140
19.1	102	375	330	495	597	100	371	329	254	343	222	270	1390	1095	365	365	H	18	140
19.1	102	375	329	495	597	160	371	329	254	343	222	270	1430	1131	377	377	H	18	140
19.1	102	400	355	495	597	100	371	329	254	343	222	270	1530	1181	397	397	H	18	140
19.1	102	450	405	495	597	100	371	329	254	343	222	270	1580	1239	413	413	H	18	140
19.1	102	450	405	495	597	100	371	329	254	343	222	270	1600	1260	420	420	H	18	140
19.1	102	300	264	495	597	75	346	329	254	343	181	206	1120	819	271	271	H	14	140
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19.1	102	450	405	495	597	100	371	329	254	343	181	206	1600	1260	420	420	H	18	140
22.2	152	540	470	708	860	150	538	510	368	406	237	290	1740	1270	426.7	426.7	H	24	100
22.2	152	540	470	708	860	150	538	510	368	406	237	290	1810	1350	450	450	H	24	100
22.2	152	540	470	708	860	150	538	510	368	406	237	290	1885	1425	475	475	H	24	100
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22.2	152	540	470	708	860	150	538	510	368	406	237	290	1960	1500	500	500	H	24	100
22.2	152	620	550	708	860	150	538	510	368	406	237	290	2055	1595	531.7	531.7	H	24	100
22.2	152	540	470	708	860	150	538	510	368	450	268	324	1740	1270	426.7	426.7	H	24	100
22.2	152	540	470	708	860	150	538	510	368	450	268	324	1810	1350	450	450	H	24	100
22.2	152	540	470	708	860	150	538	510	368	450	268	324	1885	1425	475	475	H	24	100
22.2	152	540	470	708	860	150	538	510	368	450	268	324	1895	1435	475	475	H	24	100
22.2	152	540	470	708	860	150	538	510	368	450	268	324	1960	1500	500	500	H	24	100
22.2	152	620	550	708	860	150	538	510	368	450	268	324	2055	1595	531.7	531.7	H	24	100
22.2	152	540	470	708	860	150	538	510	368	483	314	373	1740	1290	426.7	426.7	H	24	100
22.2	152	540	470	708	860	150	538	510	368	483	314	373	1810	1315	450	450	H	24	100
22.2	152	540	470	708	860	150	538	510	368	483	314	373	1885	1395	475	475	H	24	100
22.2	152	540	470	708	860	150	538	510	368	483	314	373	1895	1405	475	475	H	24	100
22.2	152	540	470	708	860	150	538	510	368	483	314	373	1960	1500	500	500	H	24	100
22.2	152	620	550	708	860	150	538	510	368	483	314	373	2055	1595	531.7	531.7	H	24	100

# END SUCTION CHEMICAL PUMPS

## OVERALL RANGE & PERFORMANCE DETAILS

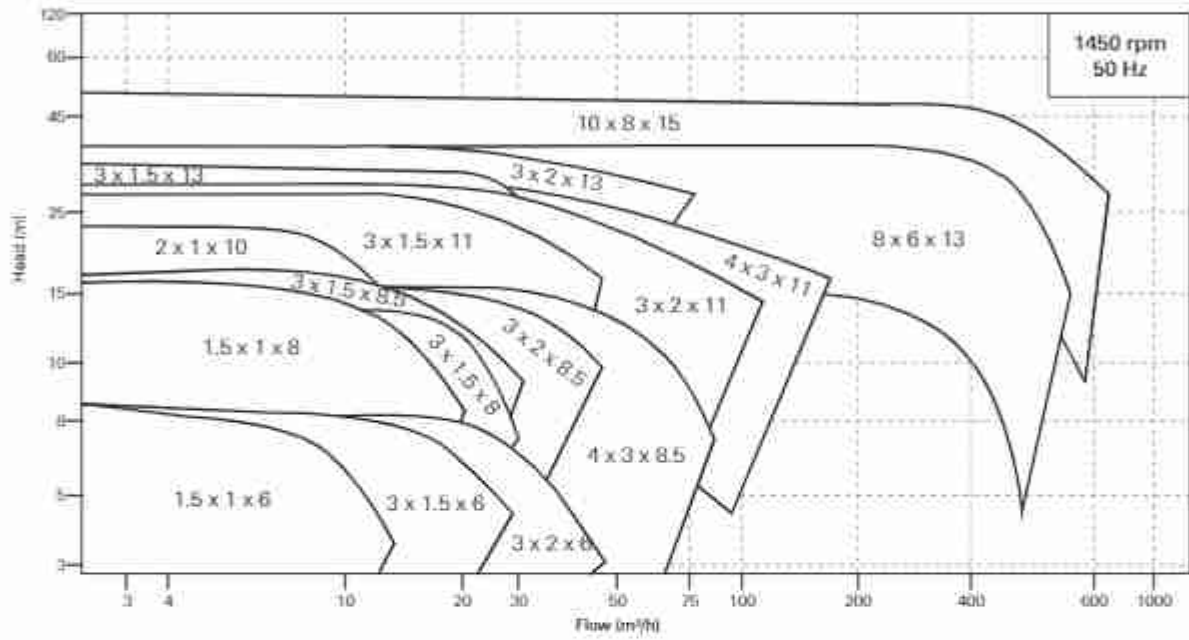
S. No.	Pump Size - Suction x Discharge / Impeller Sizes in inch (mm)	Suction Nozzle Dia in mm	Discharge Nozzle Dia in mm	Pump Weight in kg	Maximum Power in kW	Speed Min / Max in rpm	Maximum Working Pressure in Bar	Maximum Flow Rate in m <sup>3</sup> /h	Maximum Total Head in m	Maximum Solid Size / Dia in mm
1	1.5 x 1 x 6 (40 x 25 x 150)	38	25	40	5	700/3600	10/16	34	49	4.8
2	3 x 1.5 x 6 (80 x 40 x 150)	76	38	45	8	700/3600	10/16	60	48	8
3	3 x 2 x 6 (80 x 50 x 150)	76	50	46	9	700/3600	10/16	96	43	15
4	1.5 x 1 x 8 (40 x 25 x 200)	38	25	47	15	700/3600	10/16	48	95	9
5	3 x 1.5 x 8 (80 x 40 x 200)	76	38	50	22	700/3600	10/16	68	94	8
6	2 x 1 x 10 (50 x 25 x 250)	50	25	115	24	700/3600	10/16	38	130	4.5
7	3 x 1.5 x 8.5 (80 x 40 x 215)	76	38	102	30	700/3600	10/16	62	104	6.6
8	3 x 2 x 8.5 (80 x 50 x 215)	76	50	105	32	700/3600	10/16	91	95	8.3
9	4 x 3 x 8.5 (100 x 80 x 215)	100	76	114	38	700/3600	10/16	194	95	17
10	6 x 4 x 8.5 (150 x 100 x 215)	150	100	129	45	700/3600	10/16	350	100	24
11	3 x 1.5 x 11 (80 x 40 x 280)	76	38	128	58	700/3600	10/16	91	168	7.5
12	3 x 2 x 11 (80 x 50 x 280)	76	50	128	75	700/3600	10/16	148	168	13
13	4 x 3 x 11 (100 x 80 x 280)	100	76	136	105	700/3600	10/16	268	125	21
14	3 x 1.5 x 13 (80 x 40 x 330)	76	38	137	85	700/3600	10/16	74	198	6
15	3 x 2 x 13 (80 x 50 x 330)	76	50	145	105	700/3600	10/16	136	198	12.8
16	4 x 3 x 13 (100 x 80 x 330)	100	76	163	38	700/1800	10/16	216	61	14.5
17	6 x 4 x 13 (150 x 100 x 330)	150	100	160	48	700/1800	10/16	431	55	25.5
18	8 x 6 x 13 (200 x 150 x 330)	200	150	249	90	700/1800	10/16	817	58	52
19	8 x 6 x 15 (200 x 150 x 380)	200	150	325	150	700/1800	10/16	980	78	40
20	10 x 8 x 13 (250 x 200 x 330)	250	200	325	110	700/1800	10/16	900	65	51
21	10 x 8 x 15 (250 x 200 x 380)	250	200	358	150	700/1800	10/16	1020	74	40

GROUP PERFORMANCE CURVE

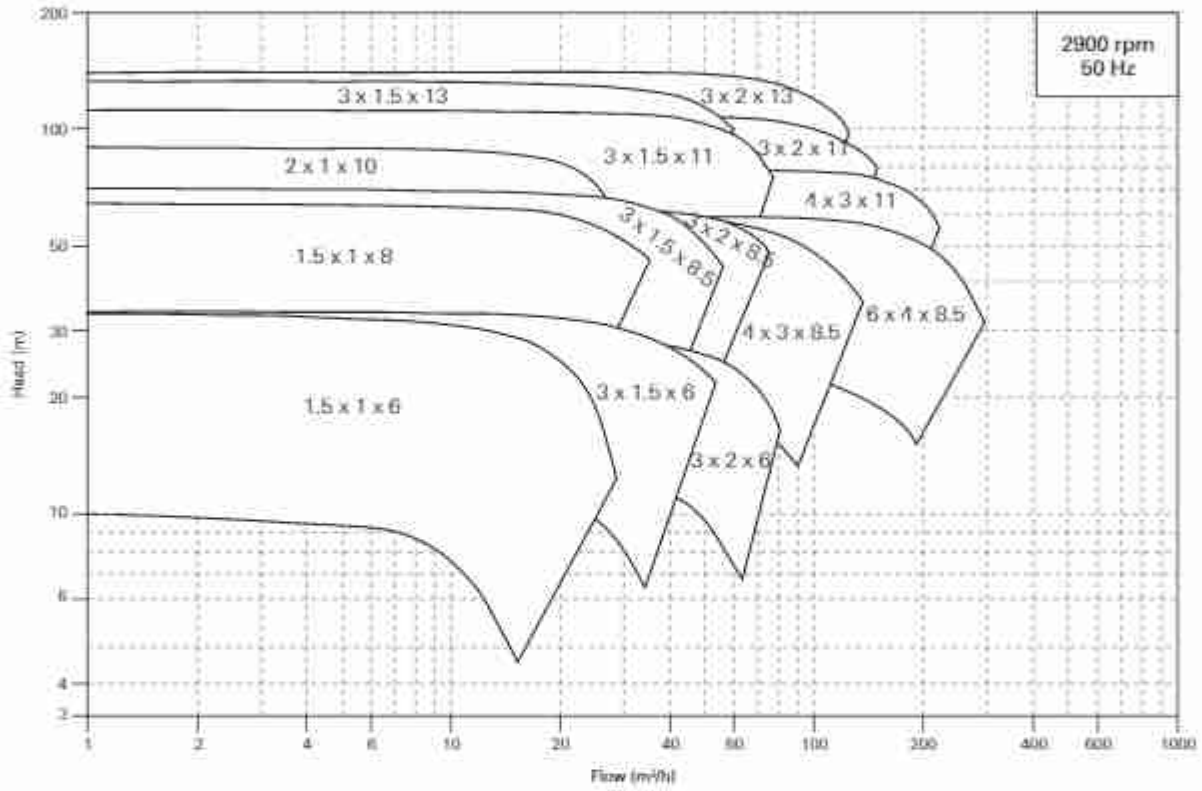


# END SUCTION CHEMICAL PUMPS

## GROUP PERFORMANCE CURVE

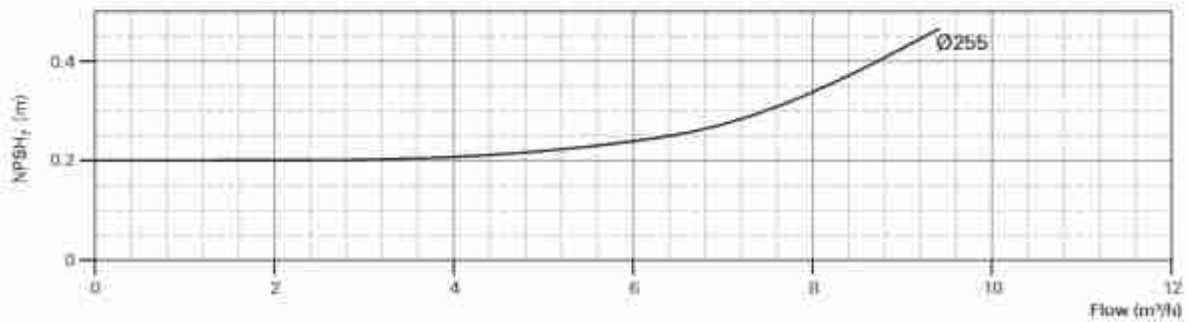
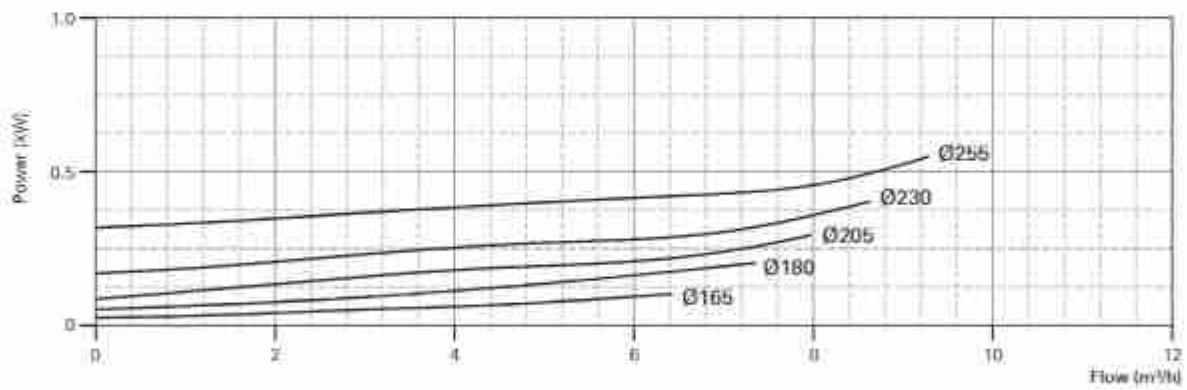
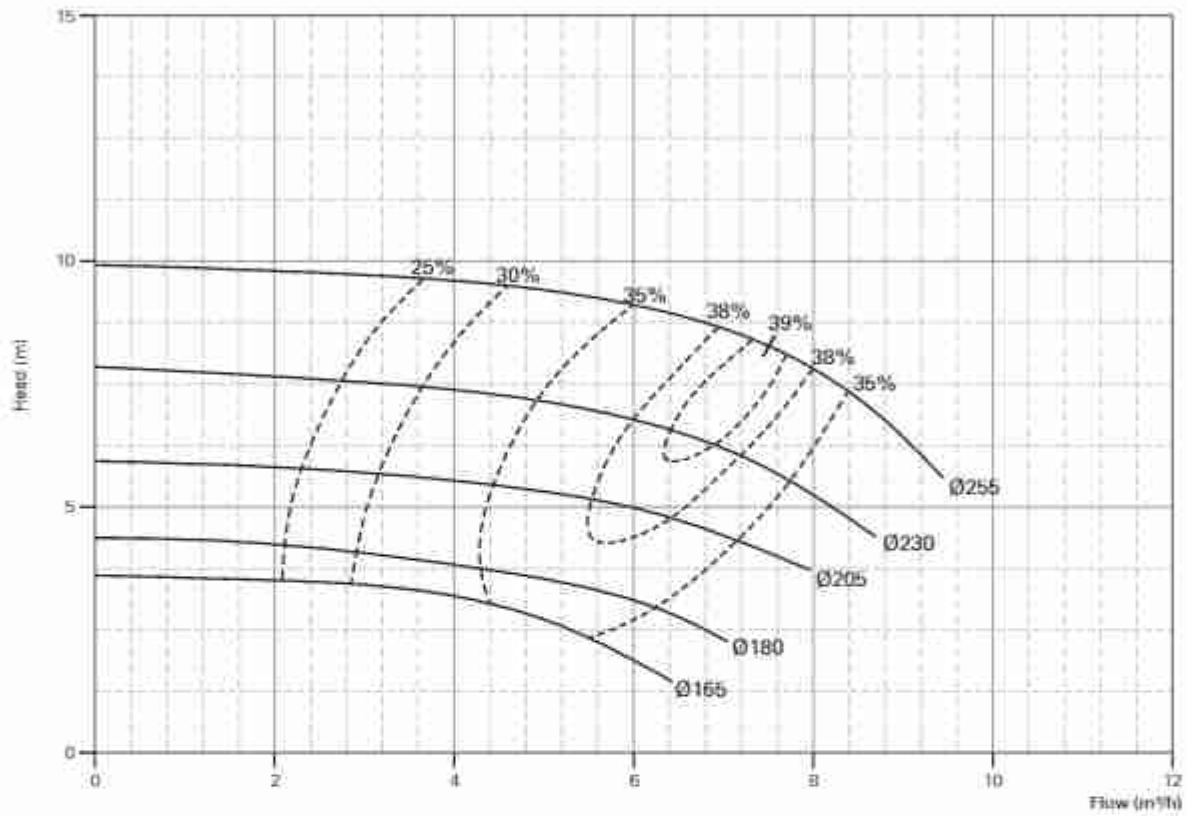


GROUP PERFORMANCE CURVE



## PERFORMANCE CURVE

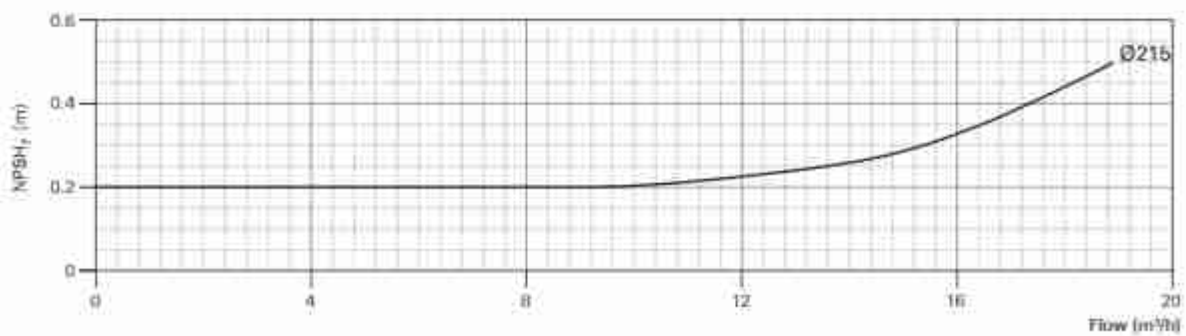
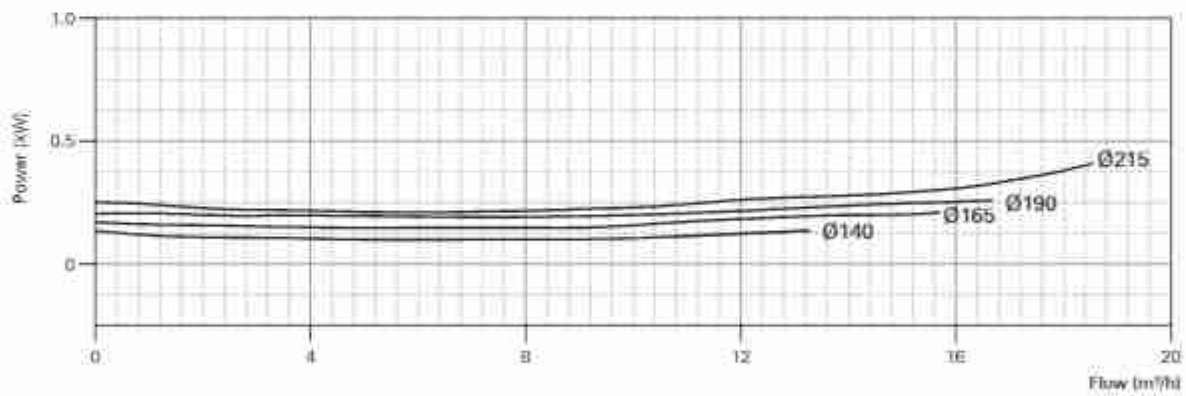
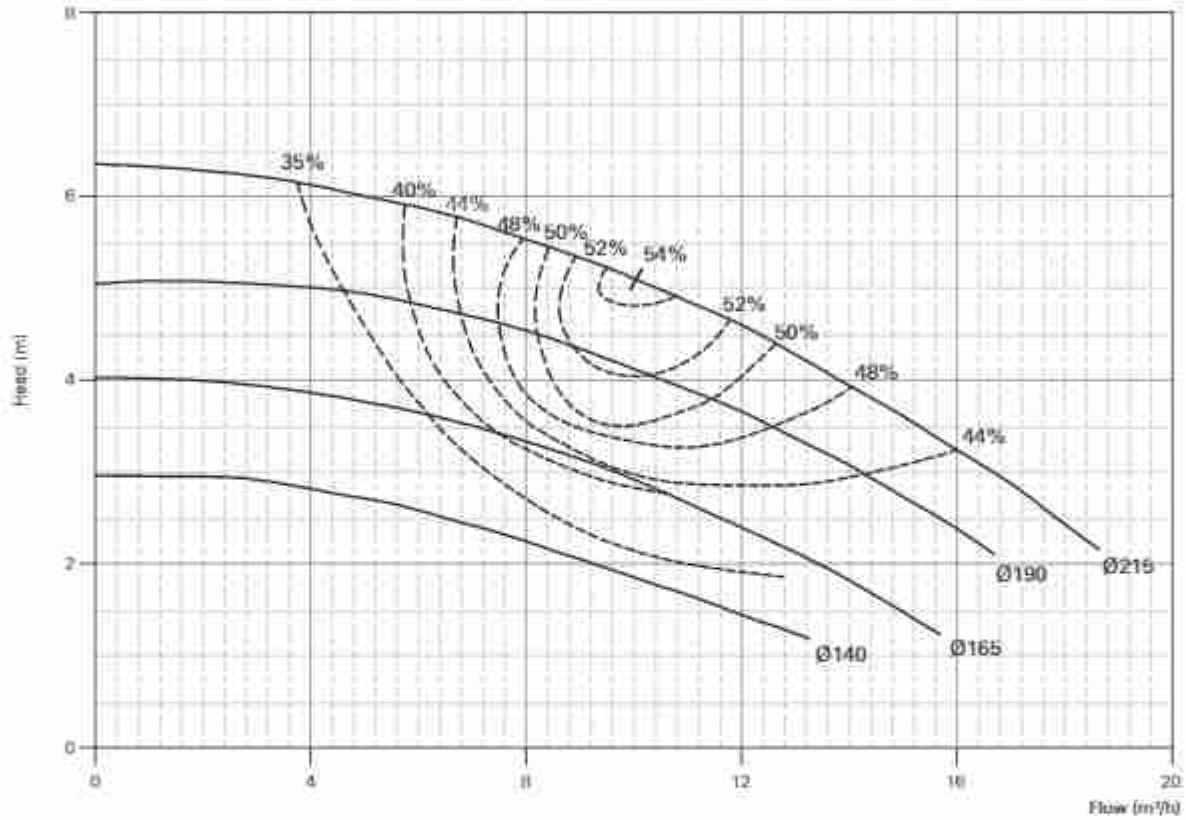
Model	KEC-2x1x10
Speed	970 rpm





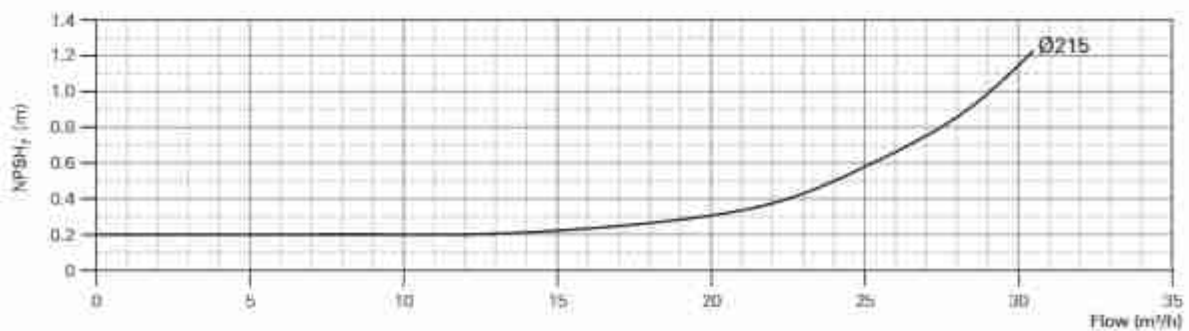
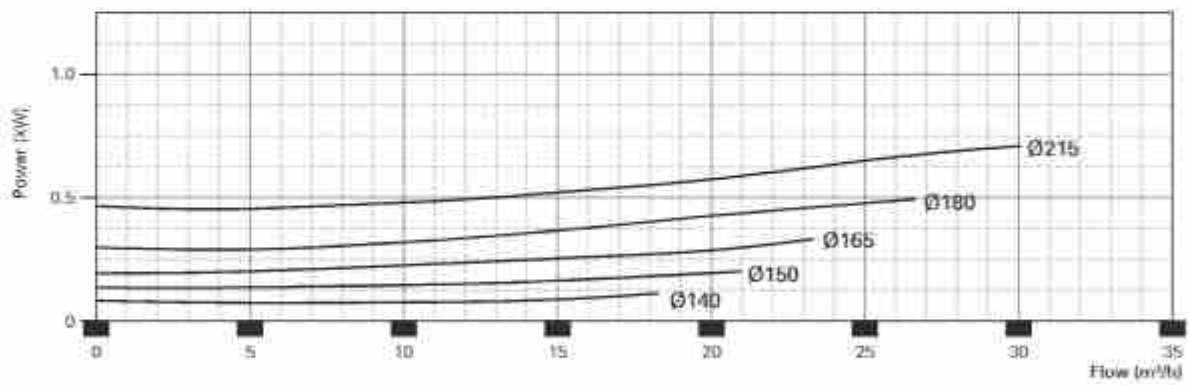
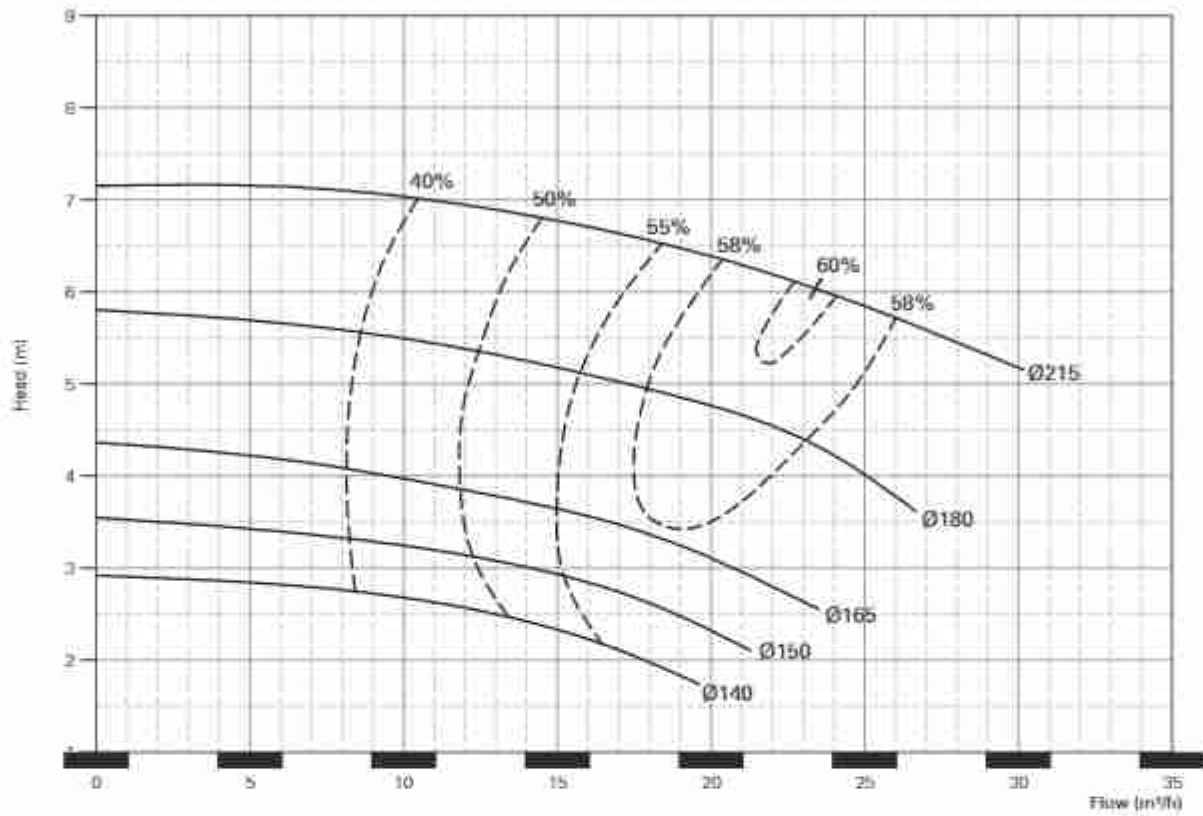
PERFORMANCE CURVE

Model	KEC-3x1.5x8.5
Speed	970 rpm



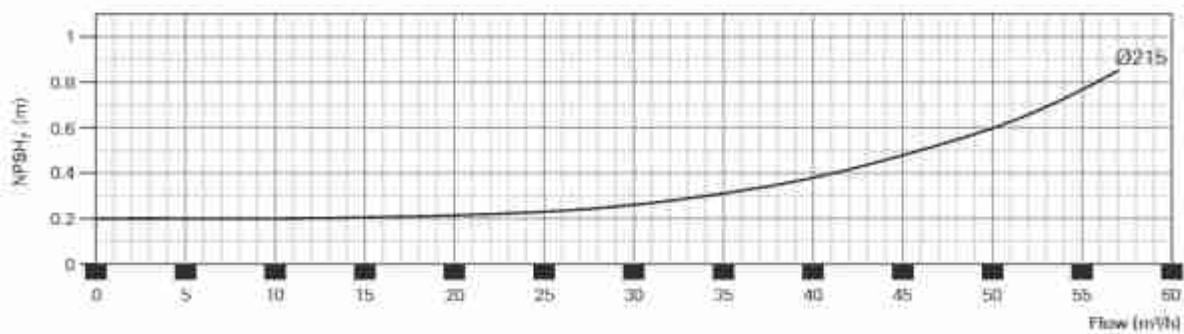
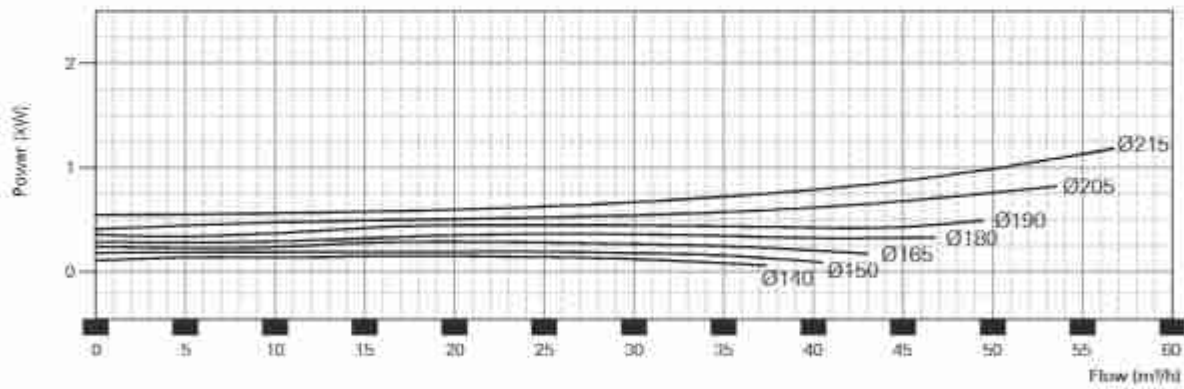
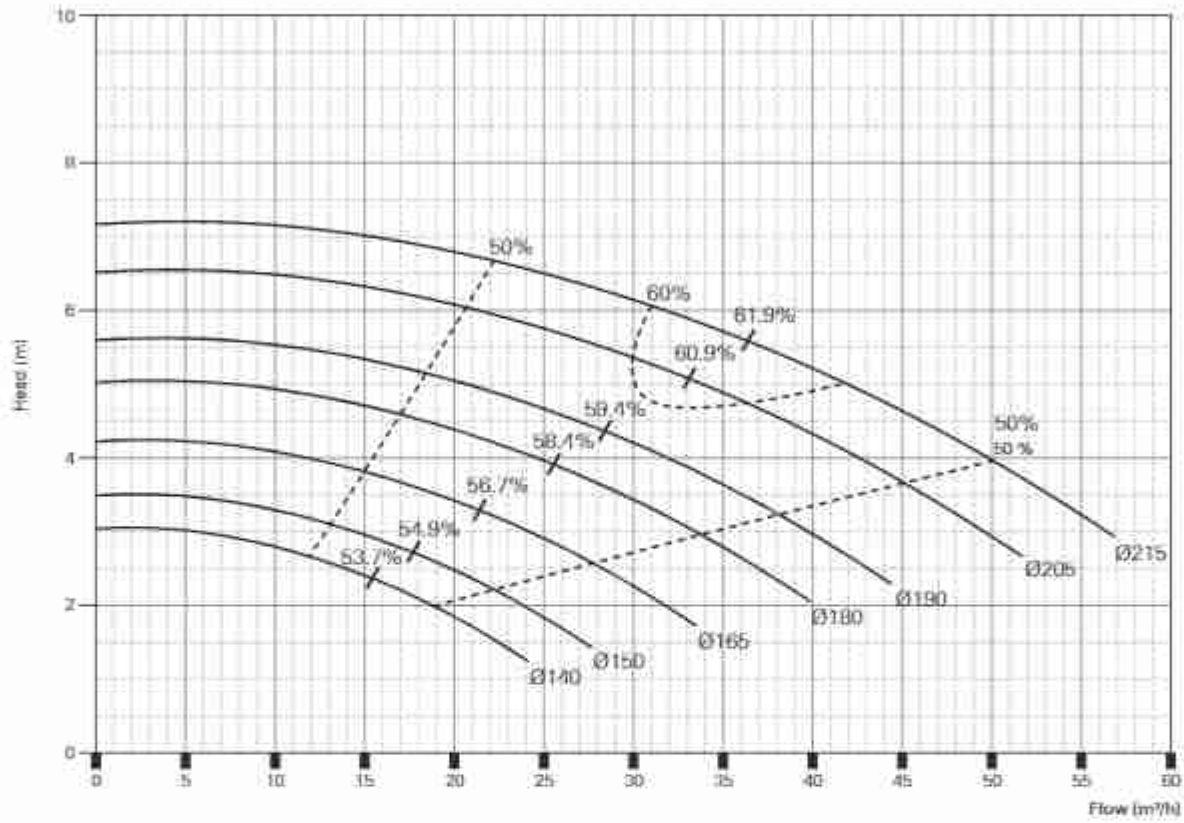
## PERFORMANCE CURVE

Model	KEC-3x2x8.5
Speed	970 rpm



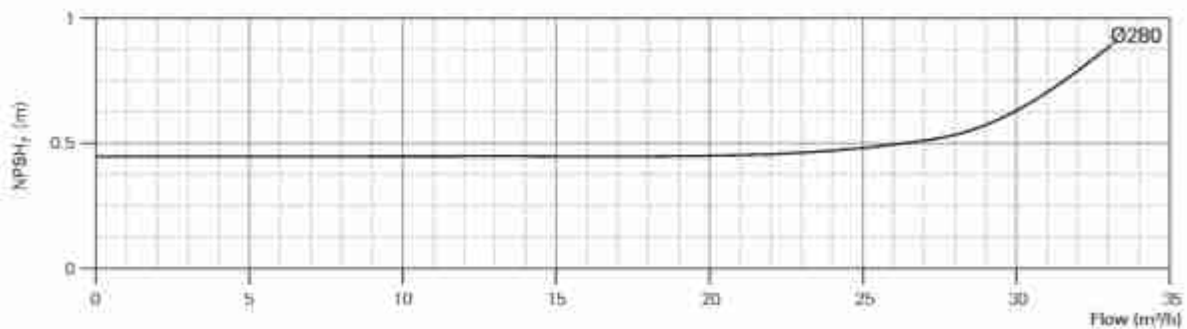
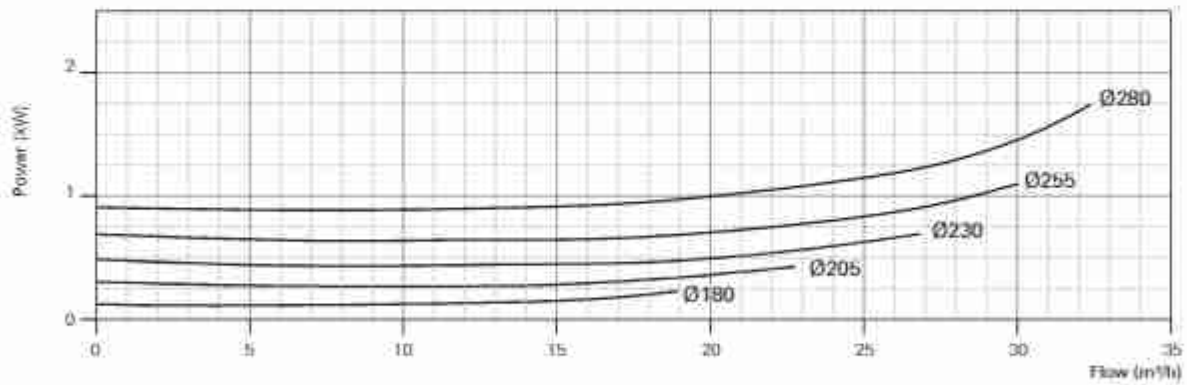
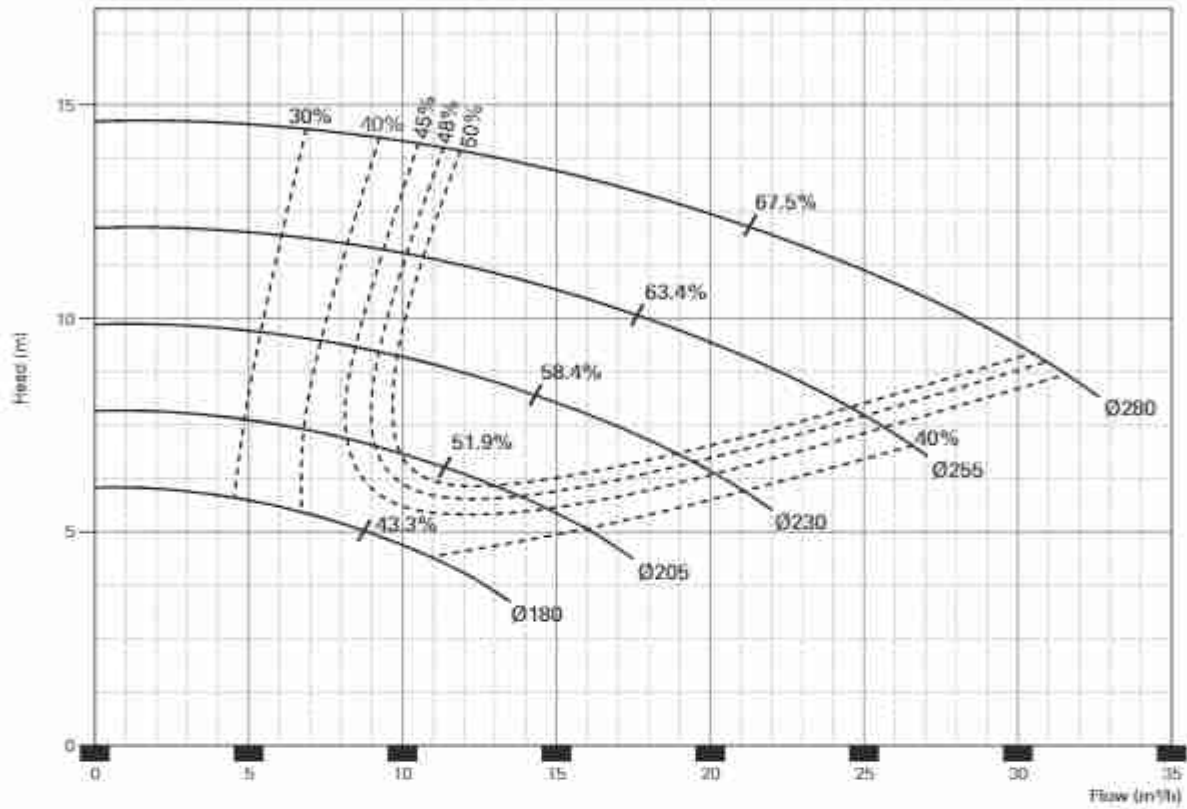
PERFORMANCE CURVE

Model	KEC-4x3x8.5
Speed	970 rpm



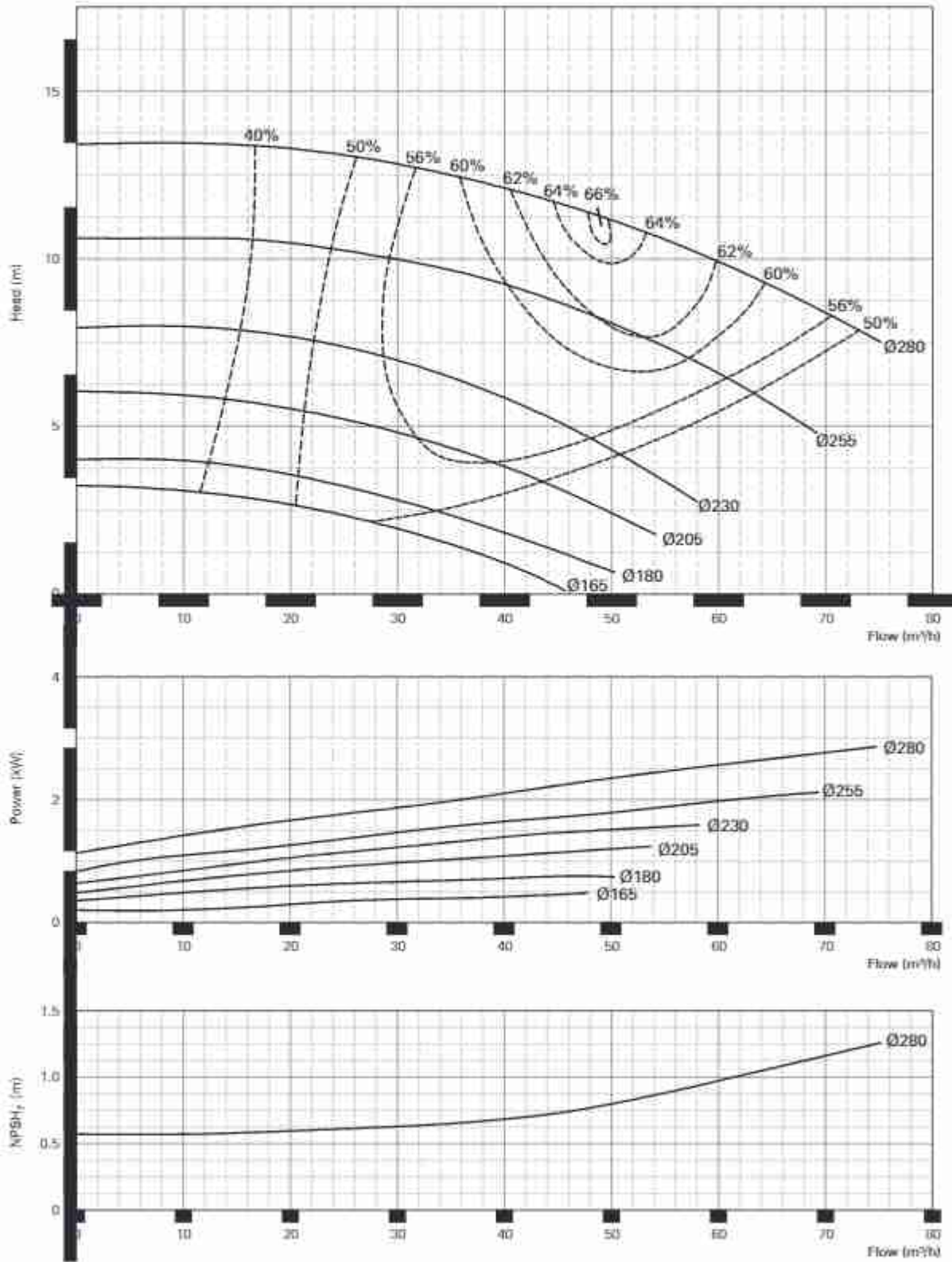
## PERFORMANCE CURVE

Model	KEC-3x1.5x11
Speed	970 rpm



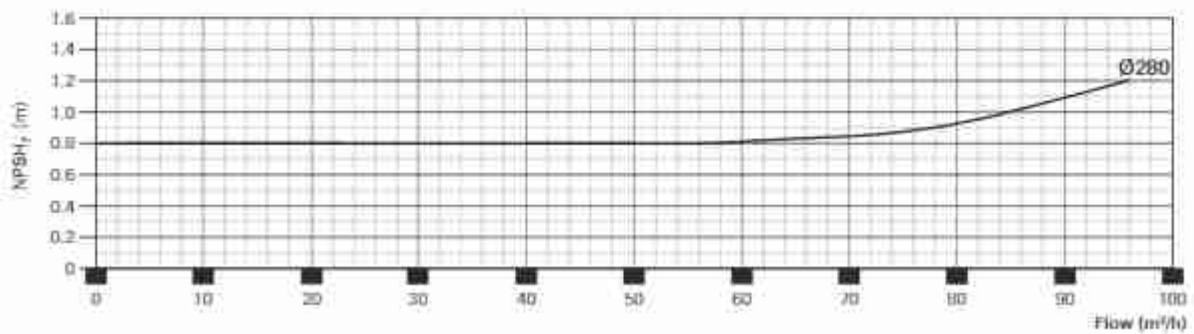
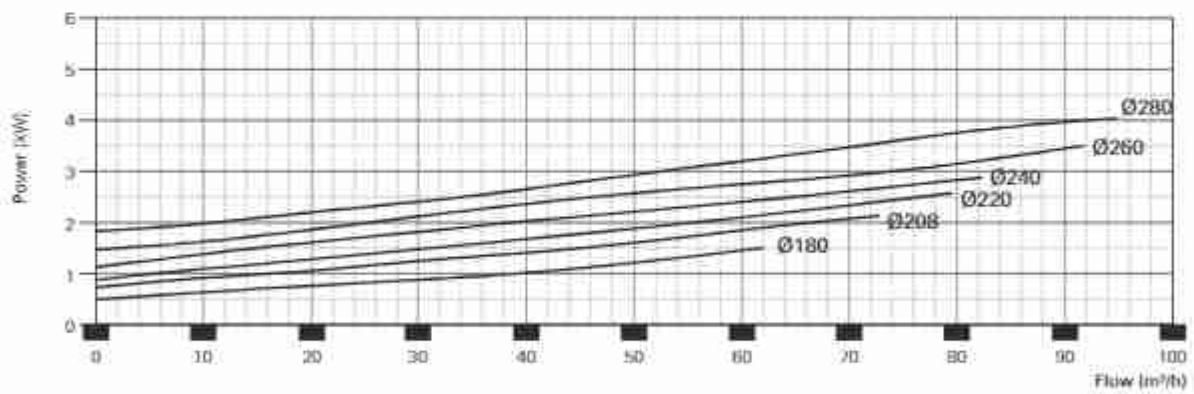
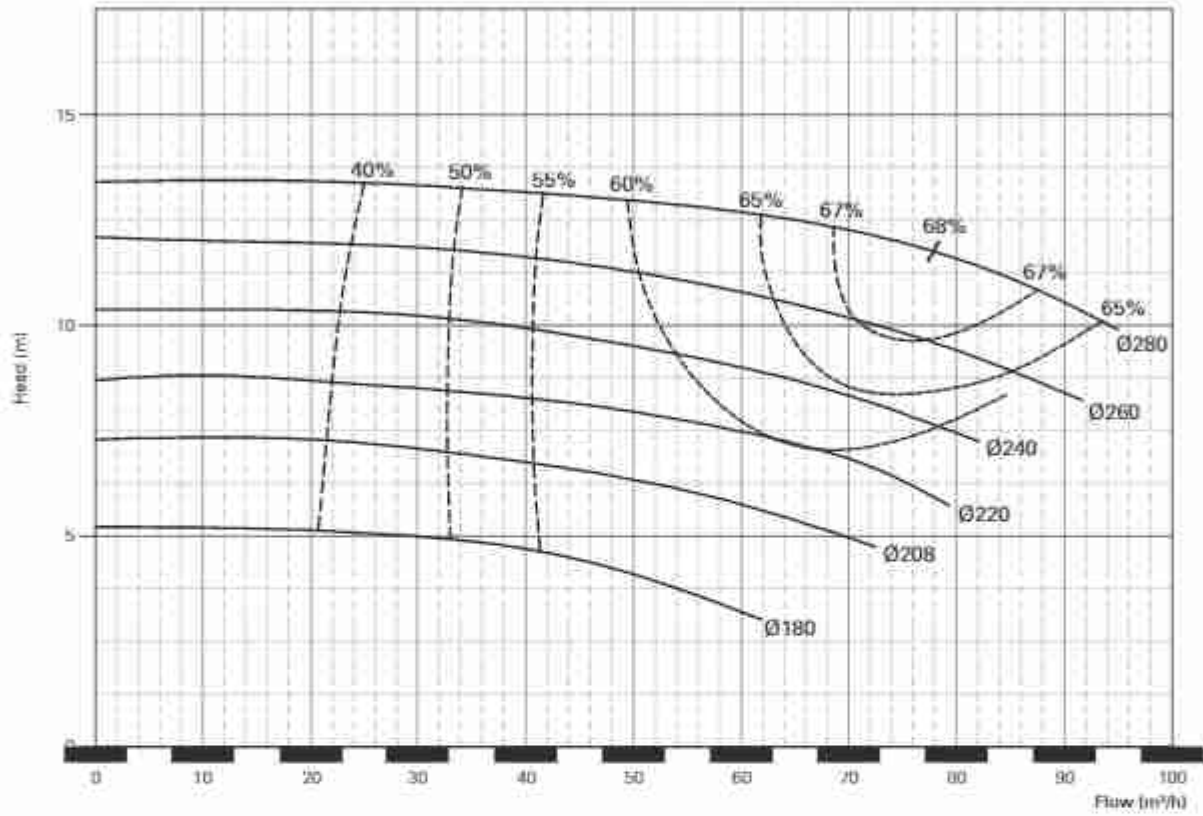
PERFORMANCE CURVE

Model	KEC-3x2x11
Speed	970 rpm



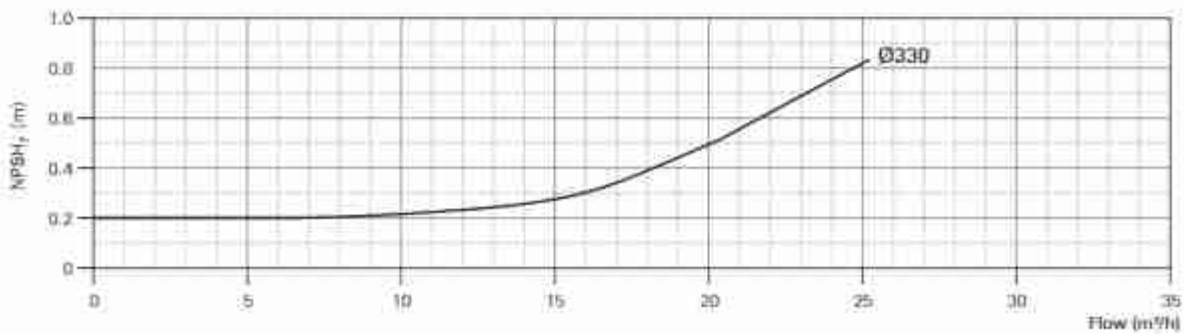
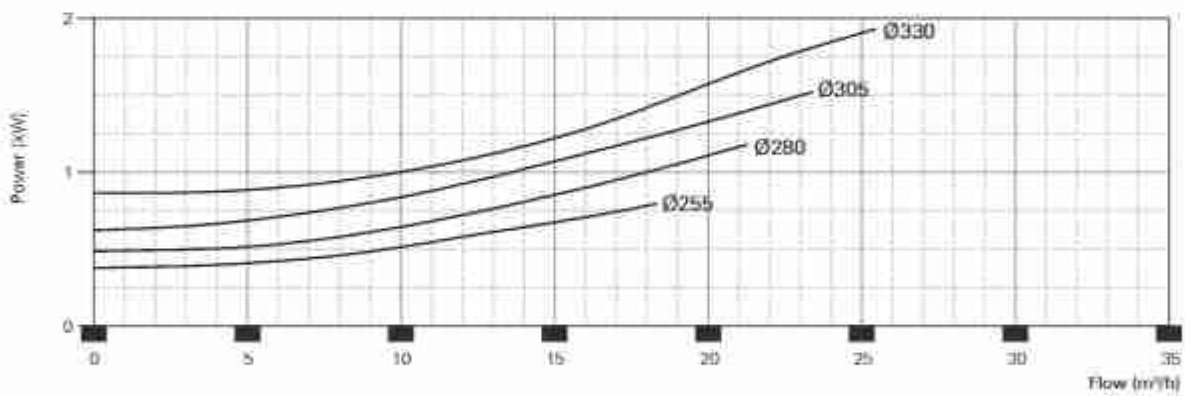
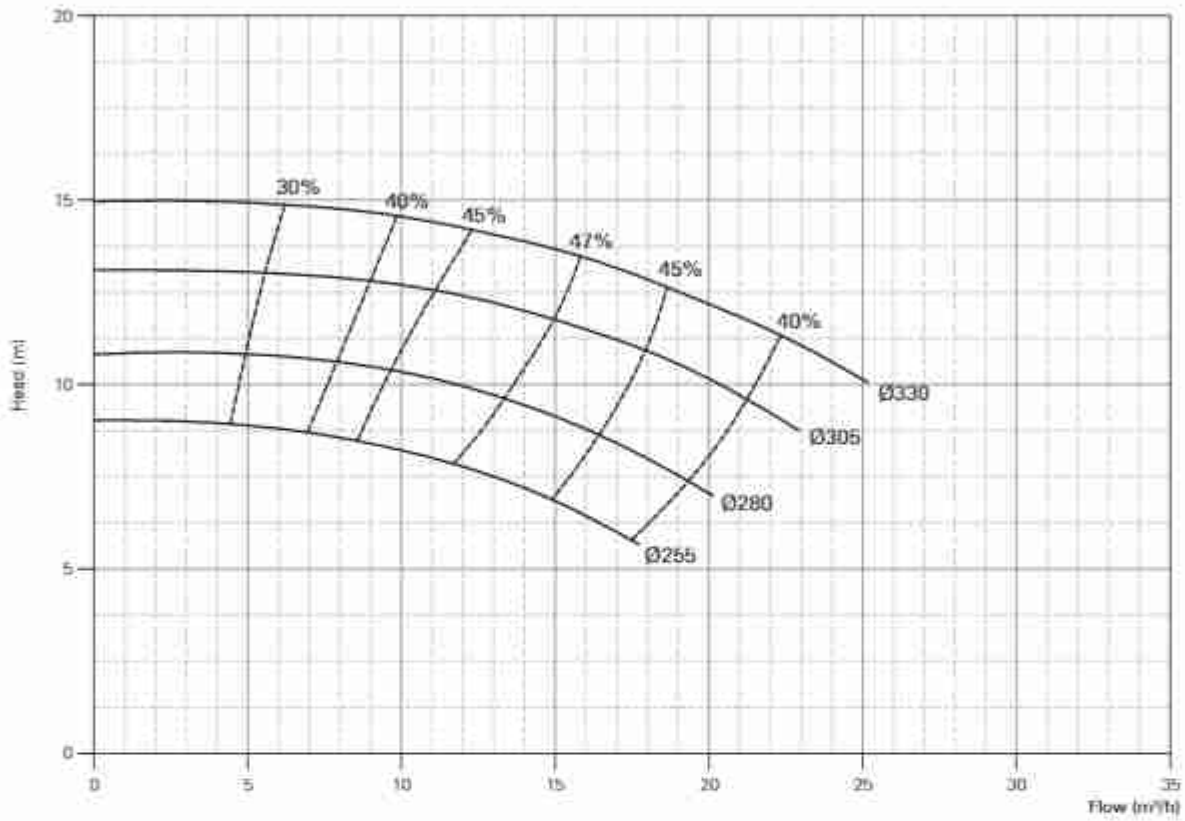
## PERFORMANCE CURVE

Model	KEC-4x3x11
Speed	970 rpm



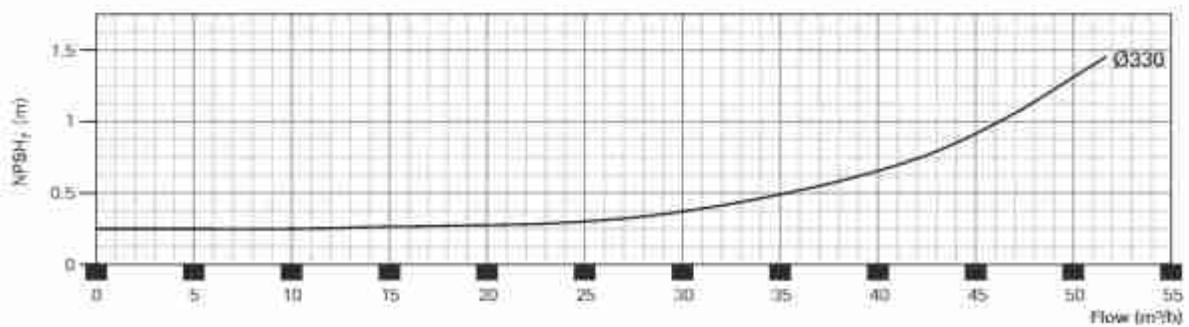
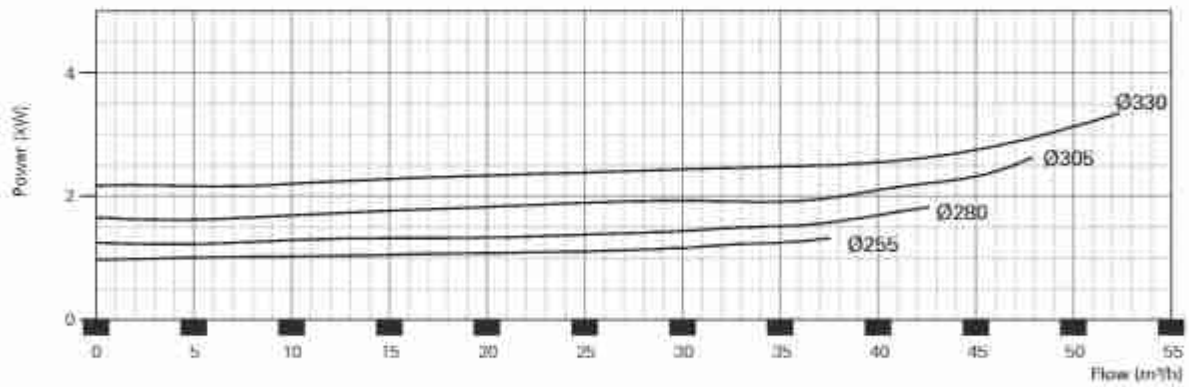
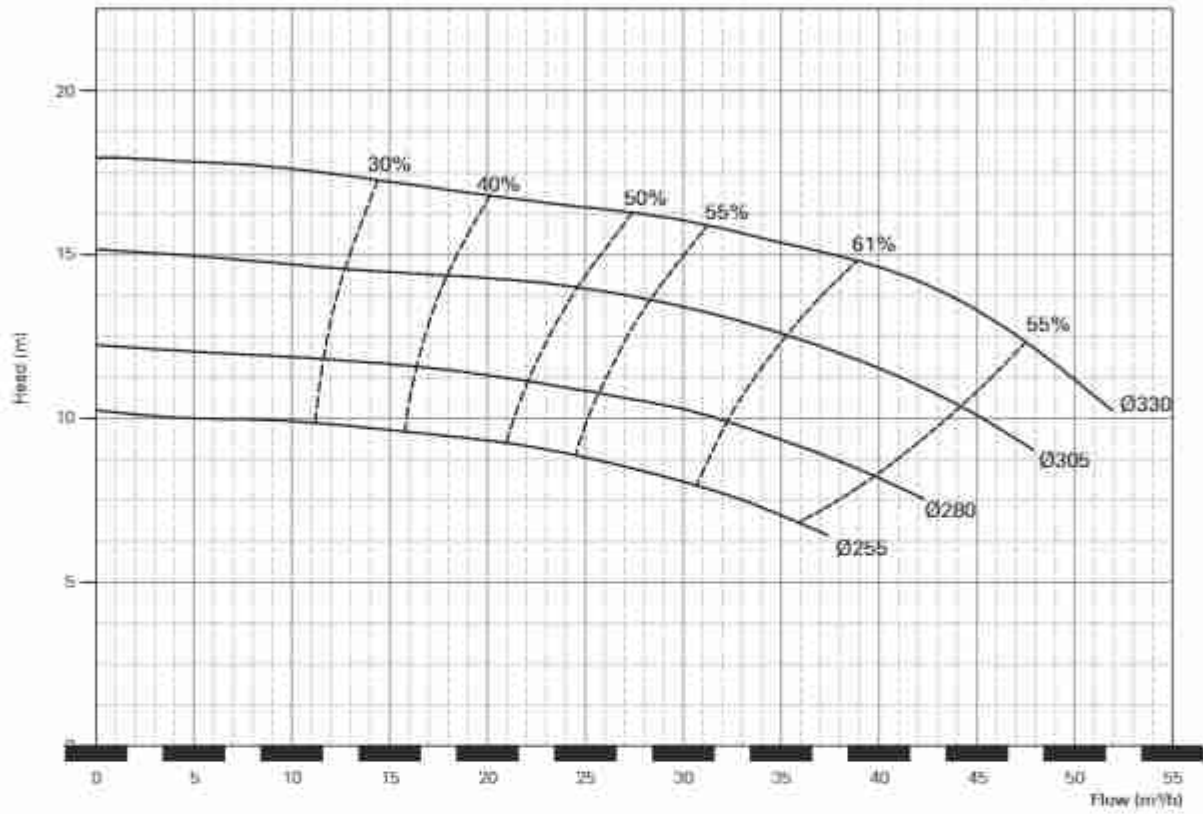
PERFORMANCE CURVE

Model	KEC-3x1.5x13
Speed	970 rpm



## PERFORMANCE CURVE

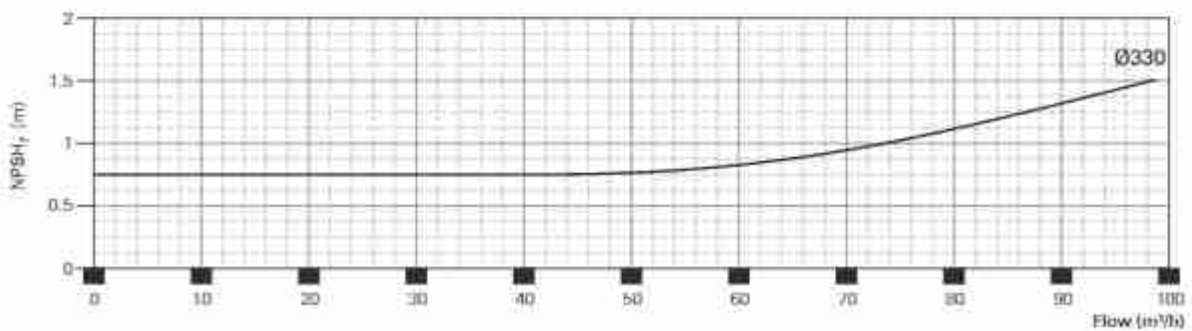
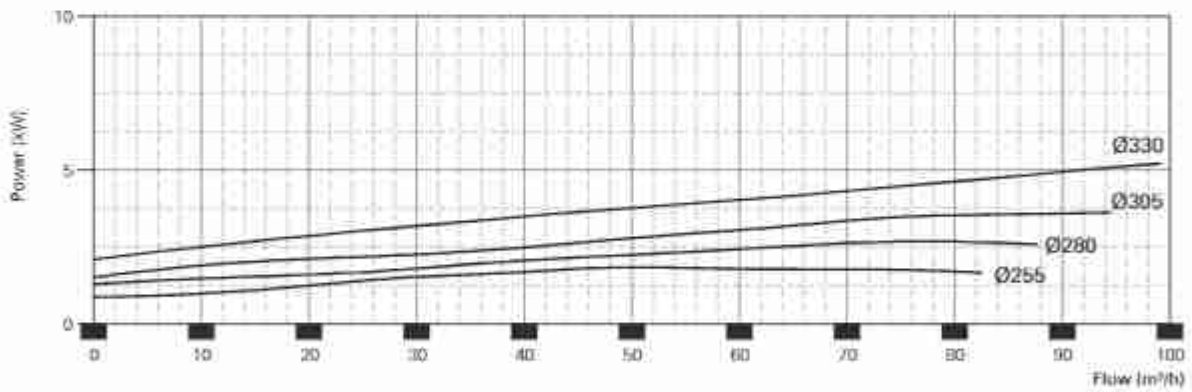
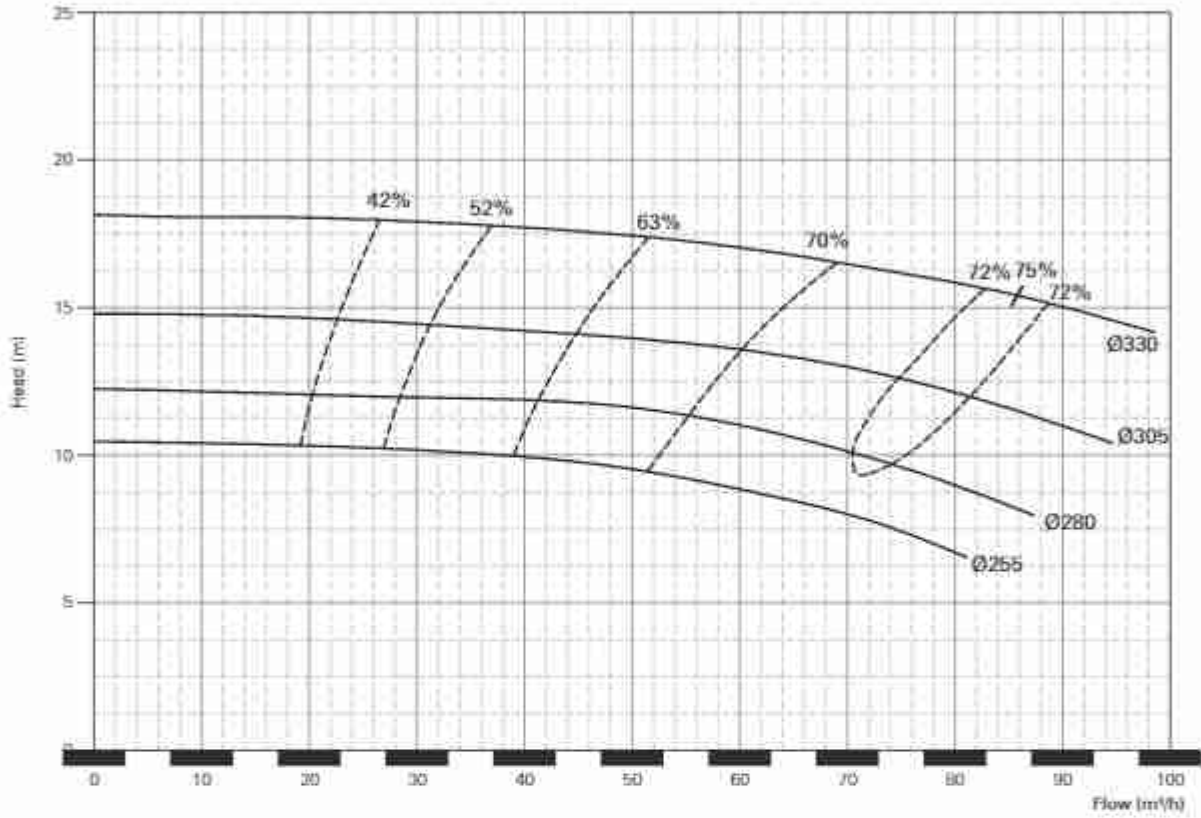
Model	KEC-3x2x13
Speed	970 rpm





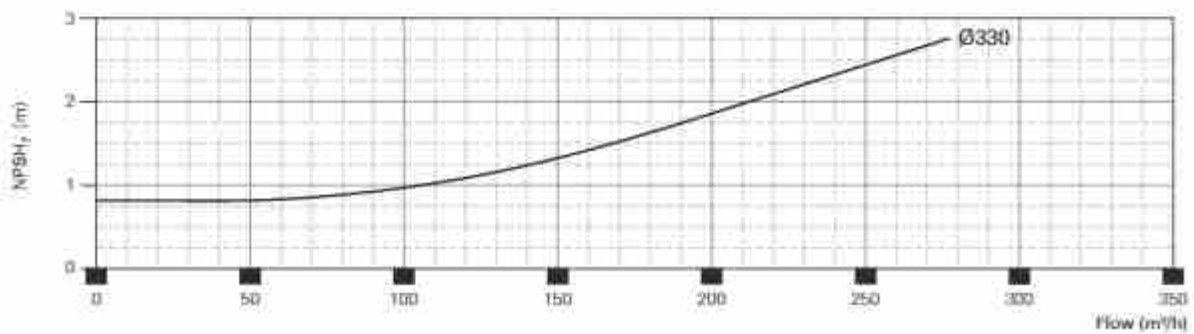
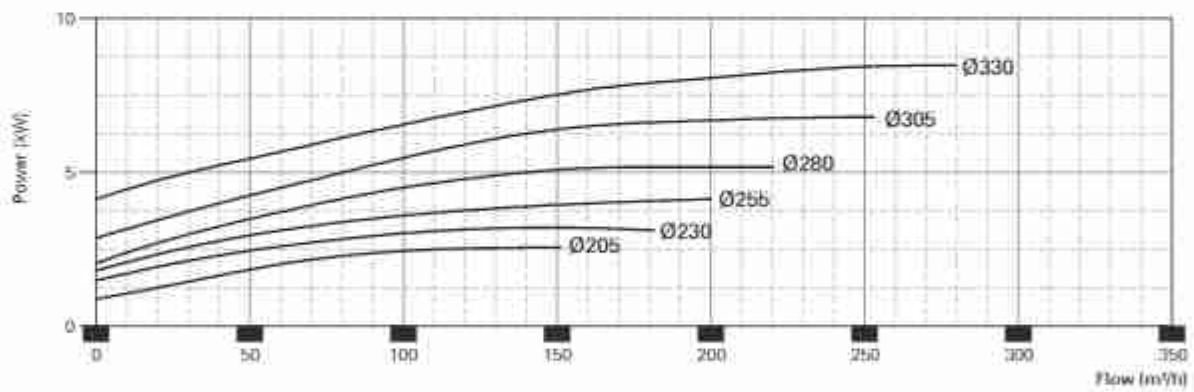
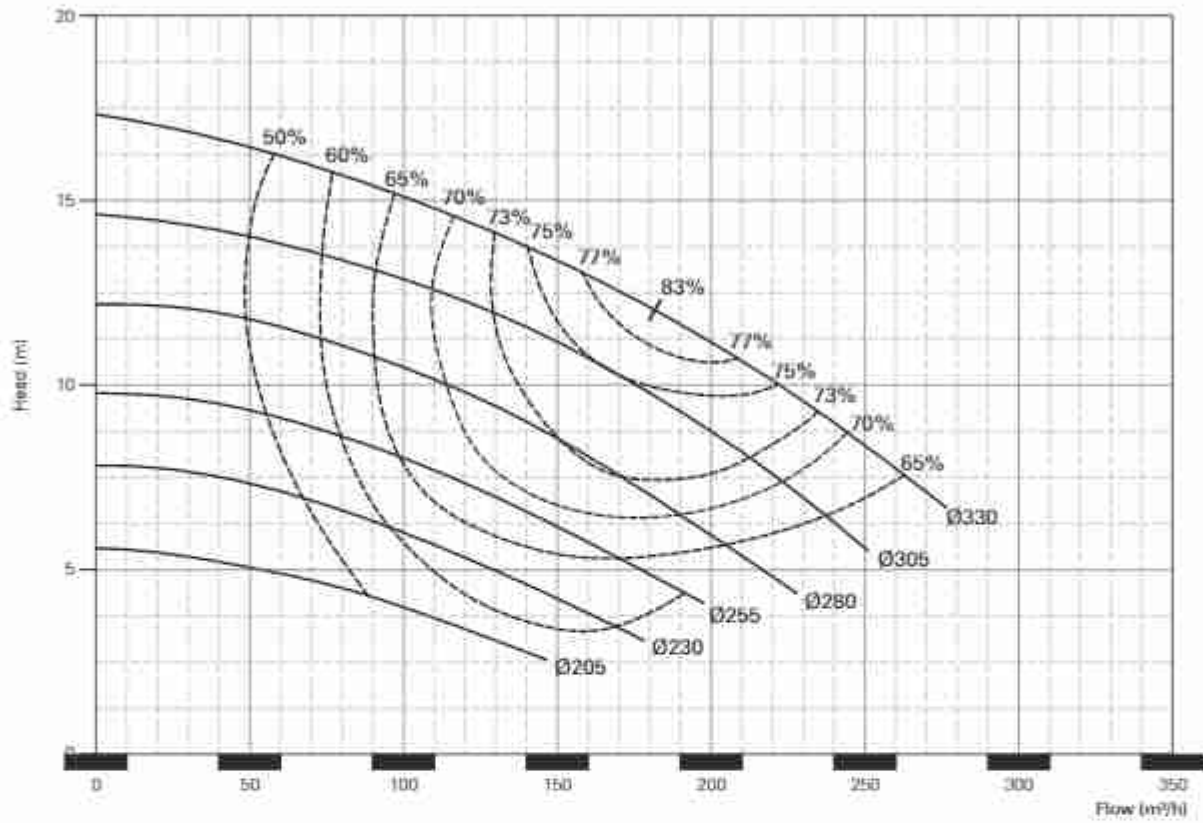
**PERFORMANCE CURVE**

Model	KEC-4x3x13
Speed	970 rpm



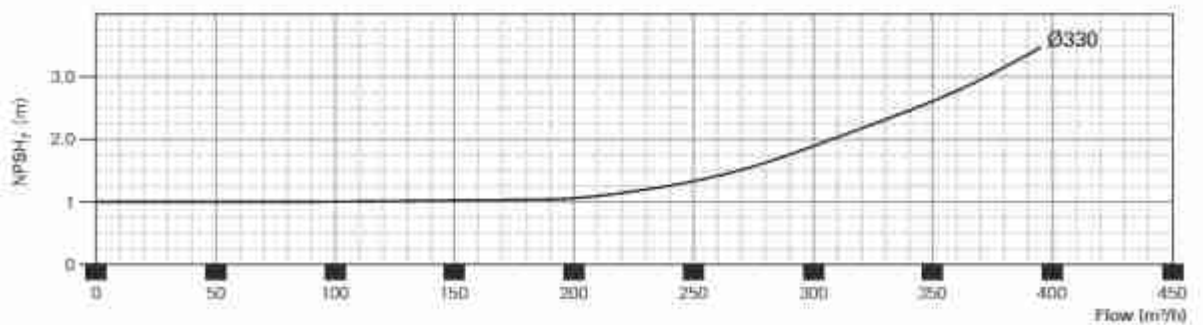
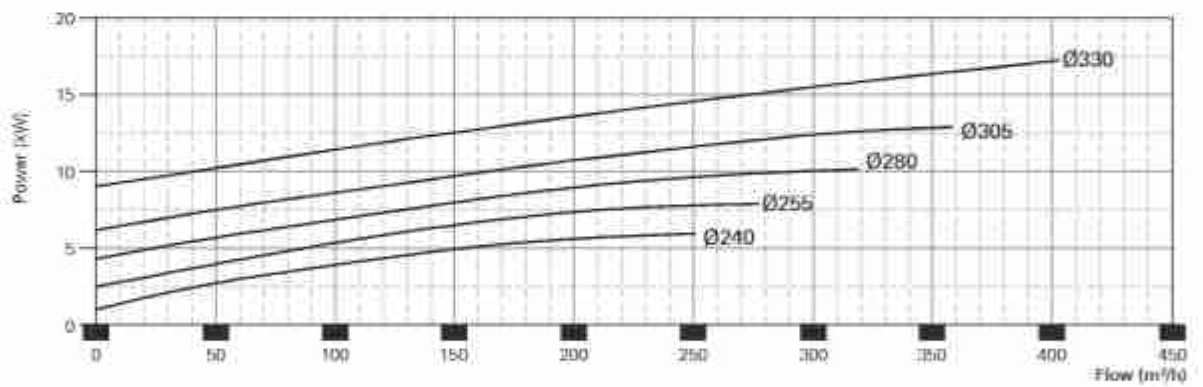
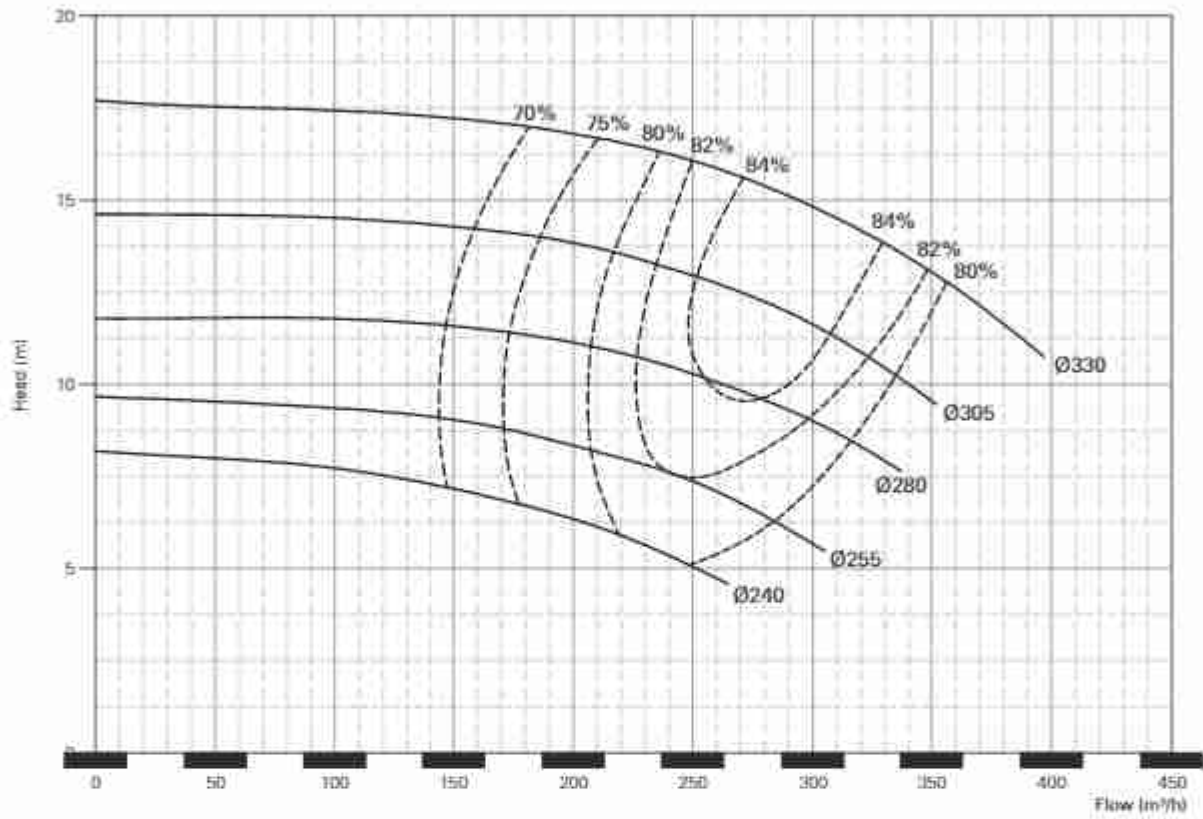
## PERFORMANCE CURVE

Model	KEC-6x4x13
Speed	970 rpm



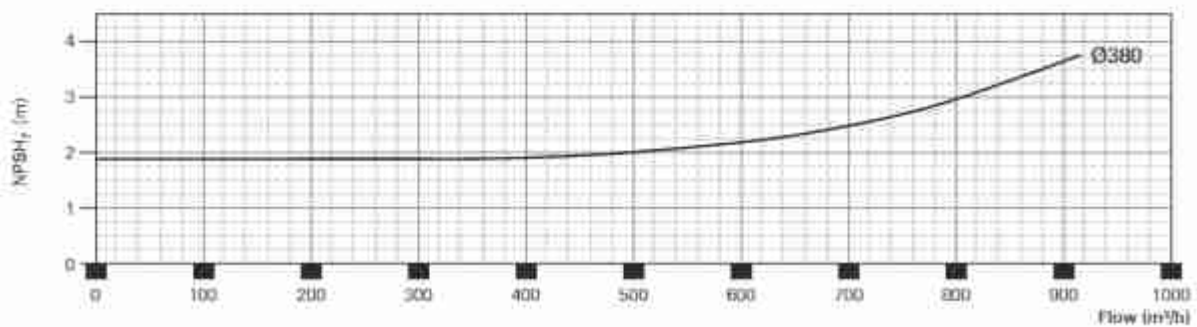
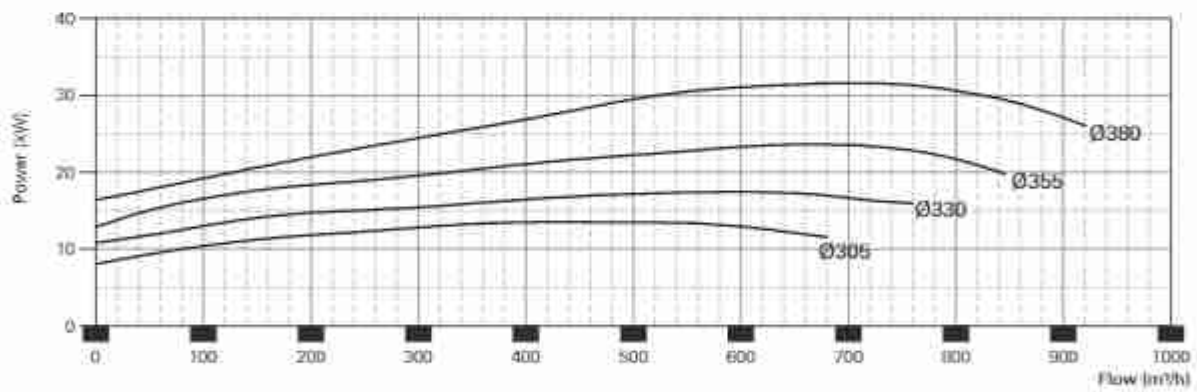
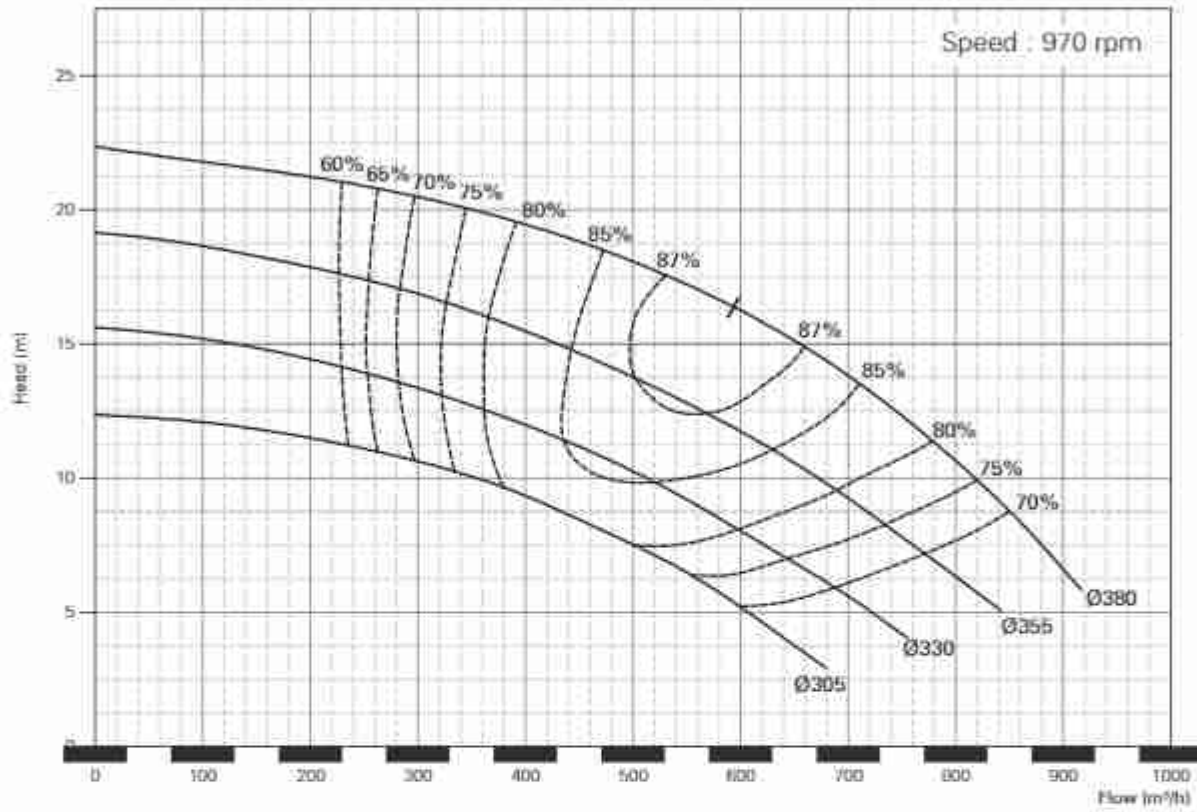
PERFORMANCE CURVE

Model	KEC-8x6x13
Speed	970 rpm



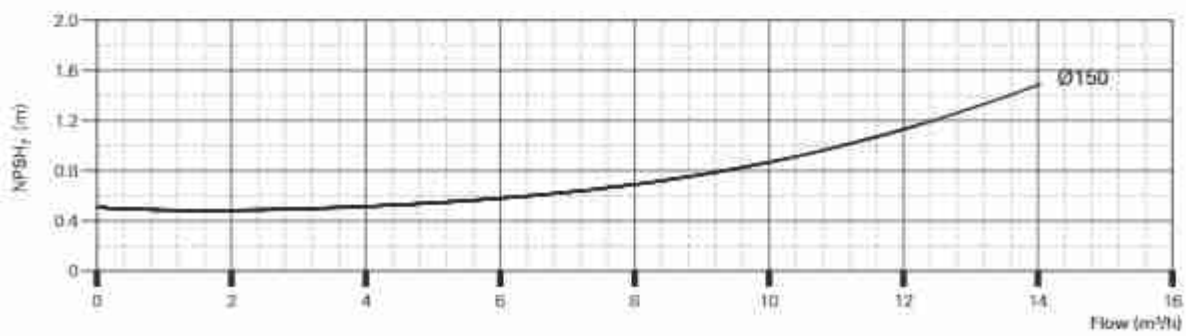
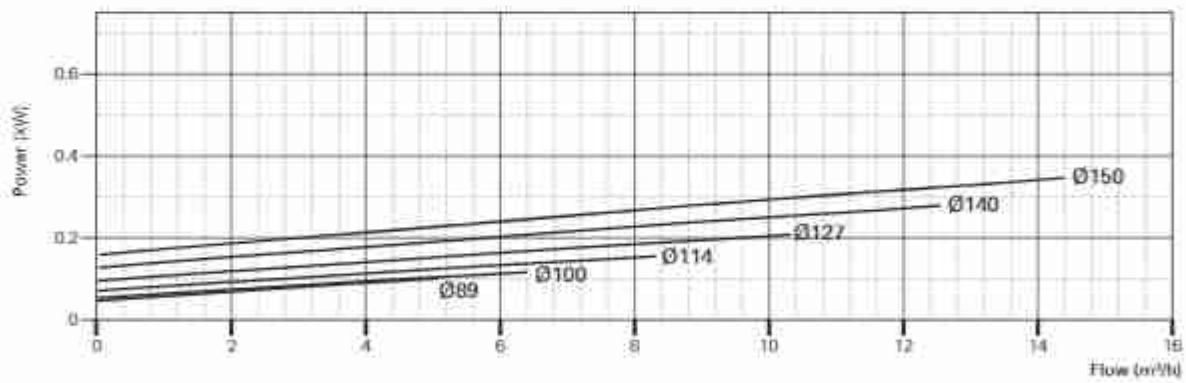
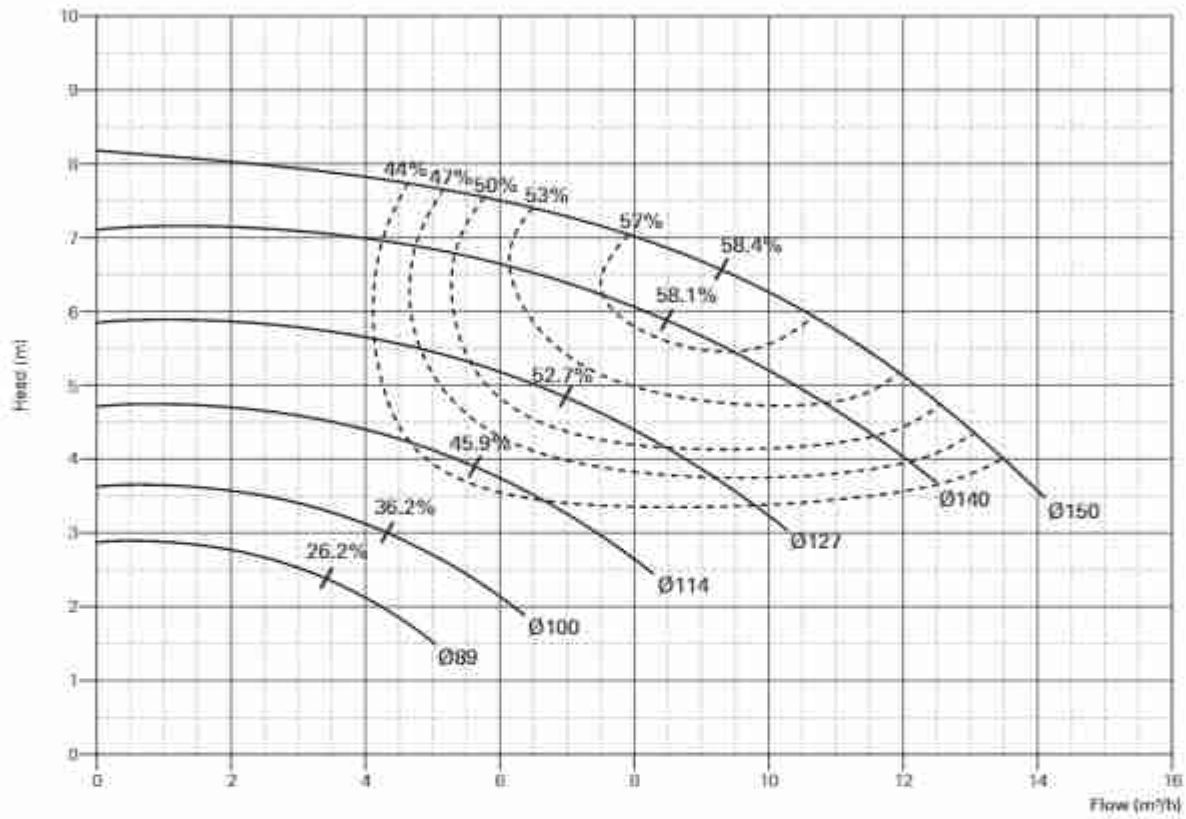
## PERFORMANCE CURVE

Model	KEC-10x8x15
Speed	970 rpm



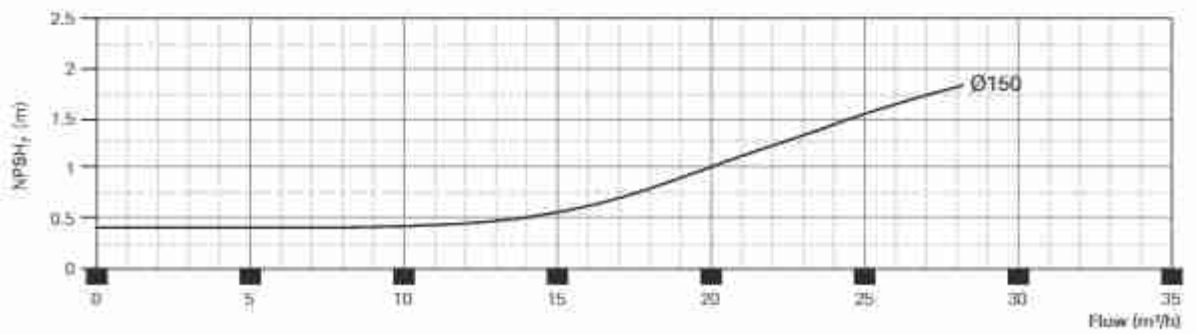
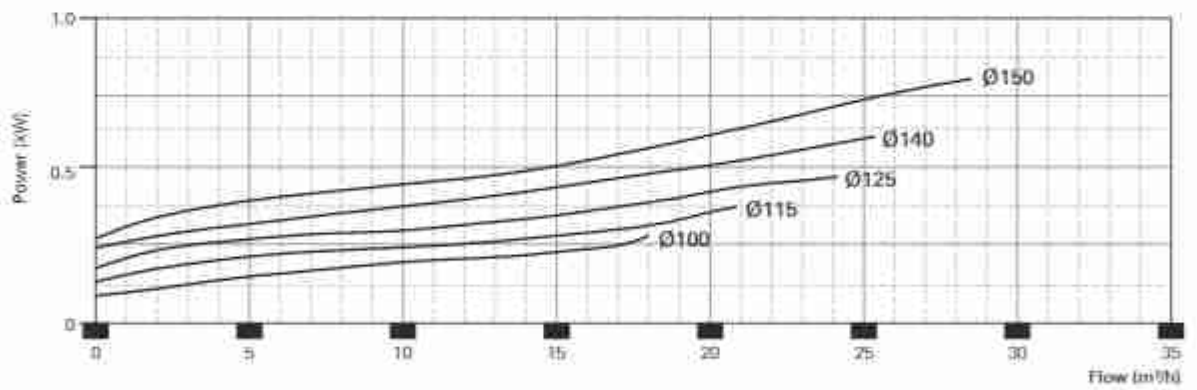
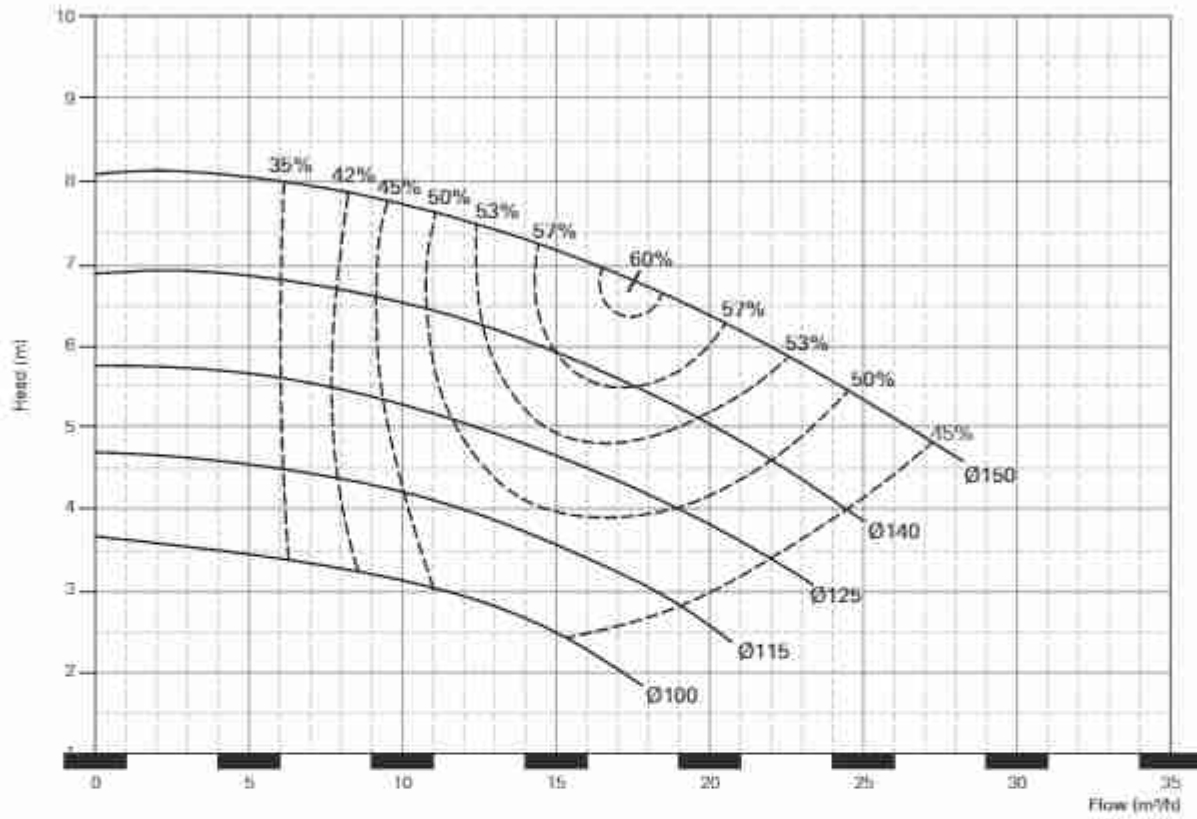
PERFORMANCE CURVE

Model	KEC-1.5x1x6
Speed	1450 rpm



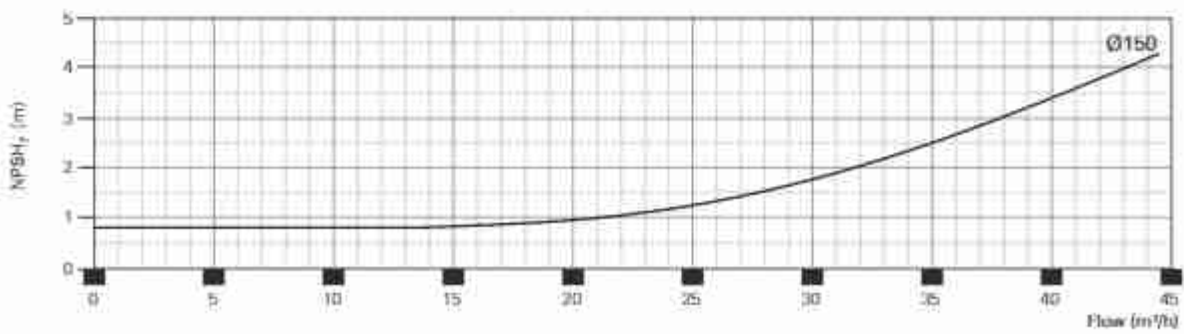
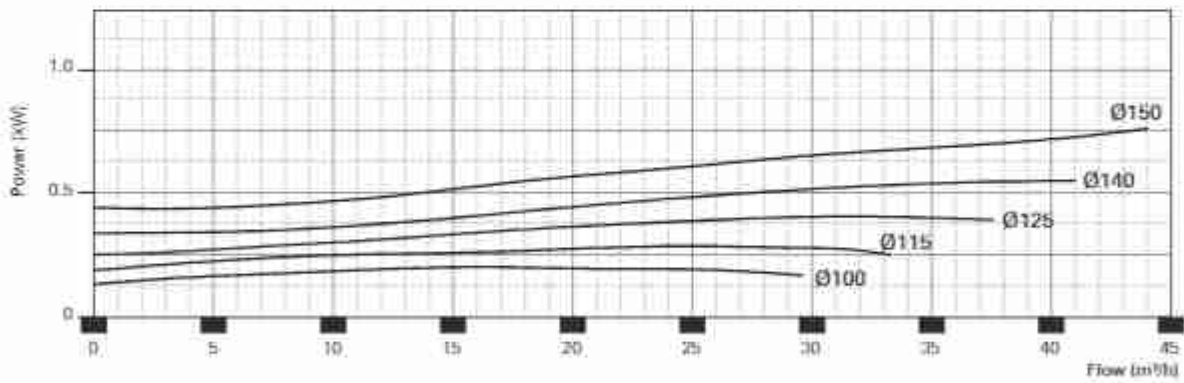
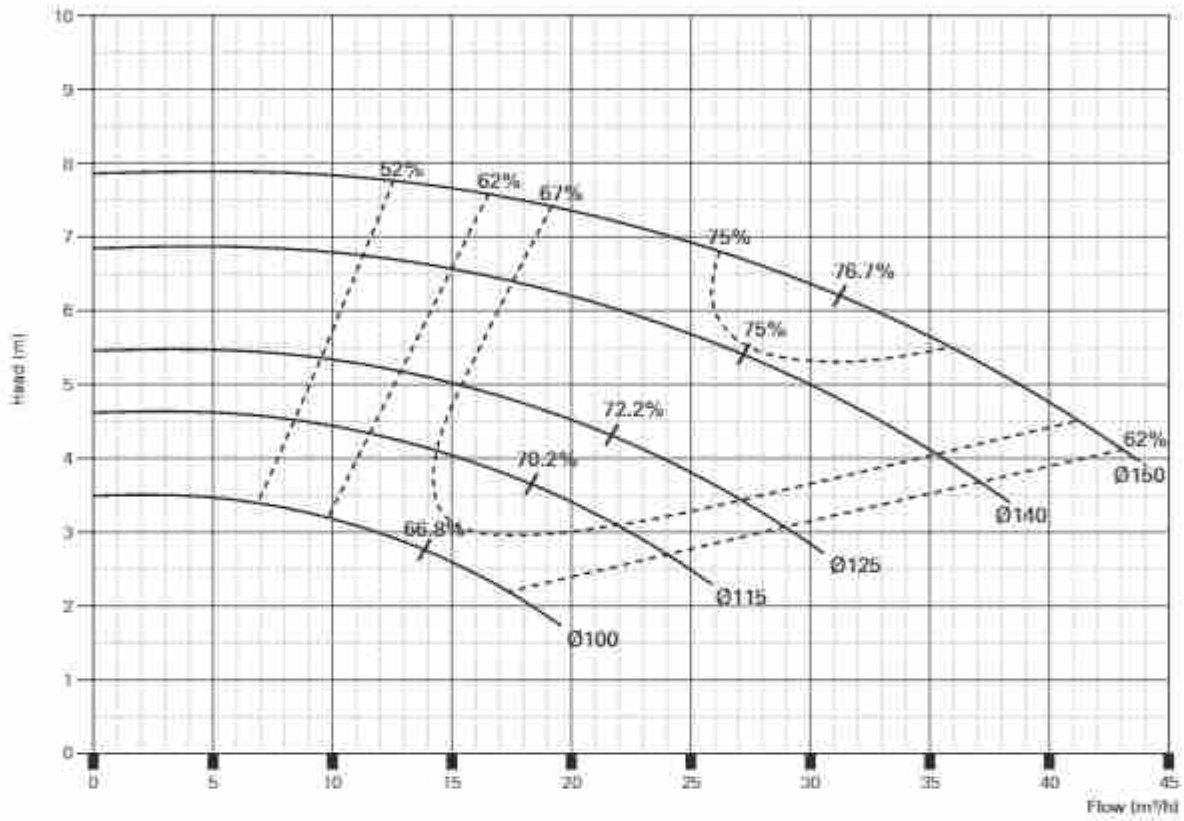
## PERFORMANCE CURVE

Model	KEC-3x1.5x6
Speed	1450 rpm



PERFORMANCE CURVE

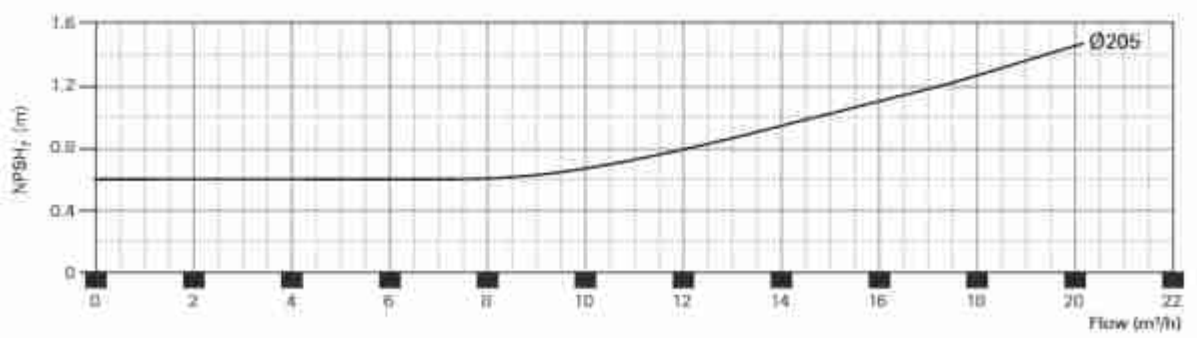
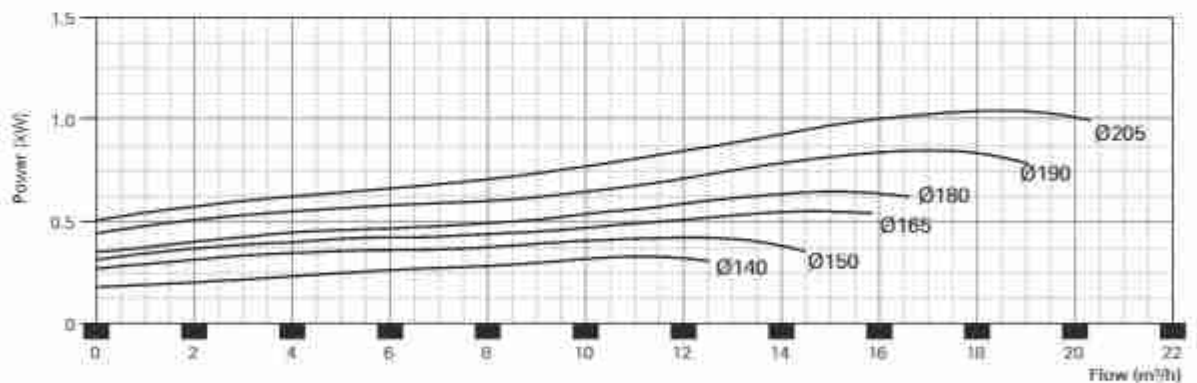
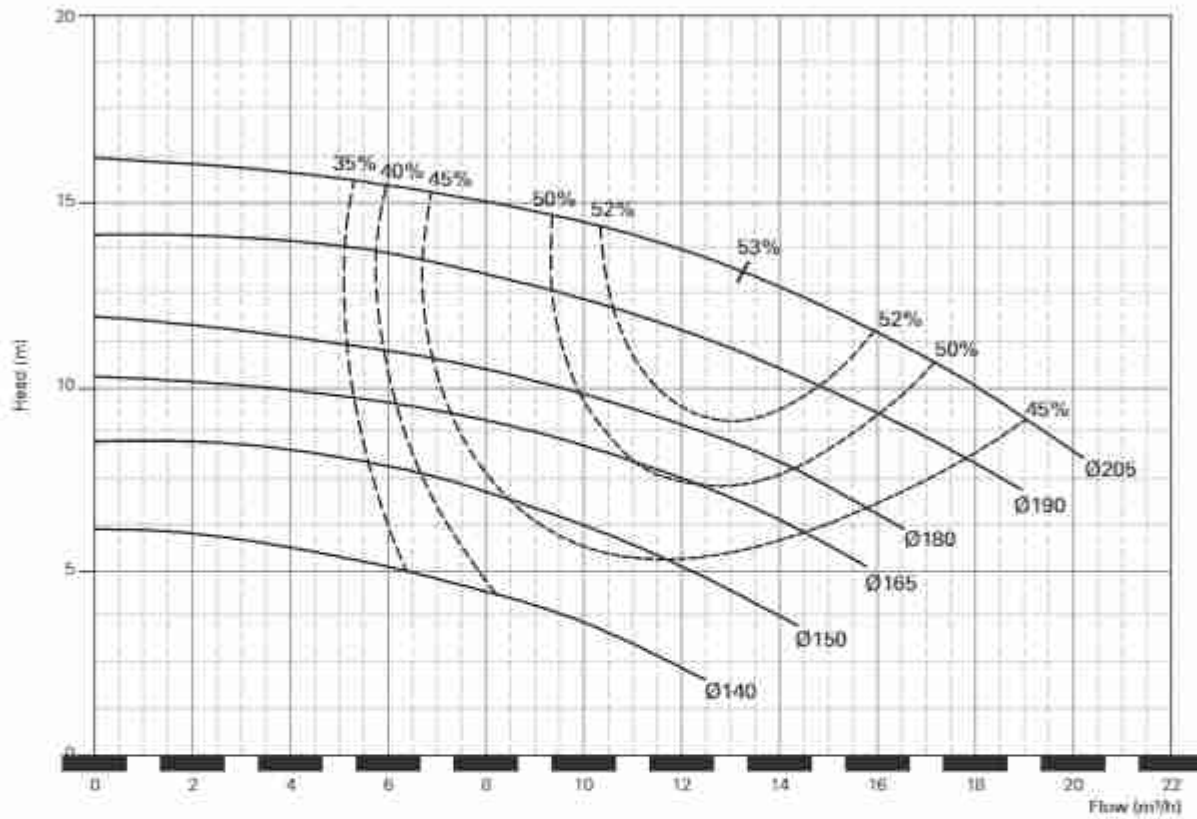
Model	KEC-3x2x6
Speed	1450 rpm



# END SUCTION CHEMICAL PUMPS

## PERFORMANCE CURVE

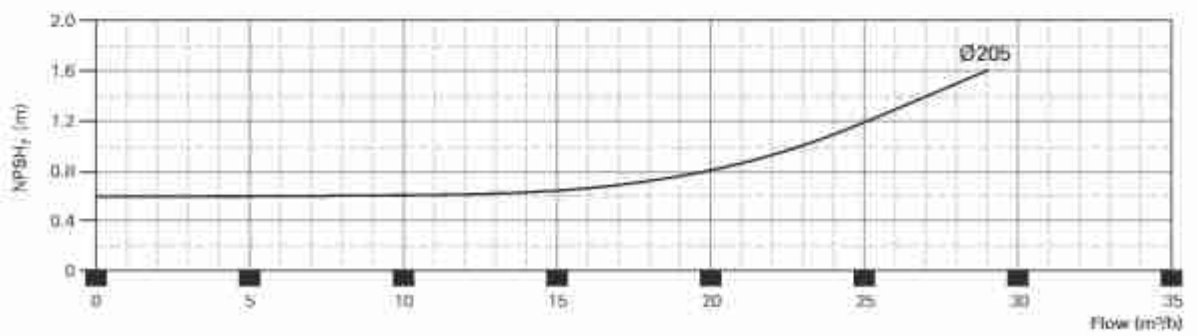
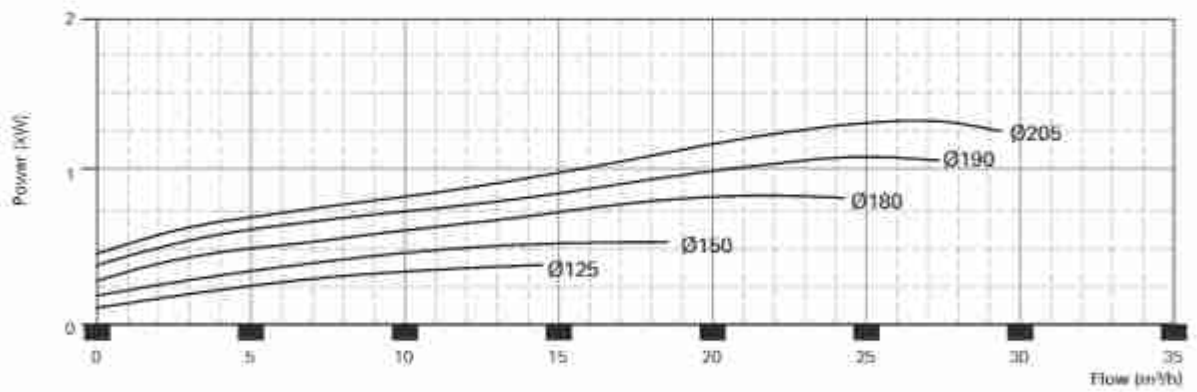
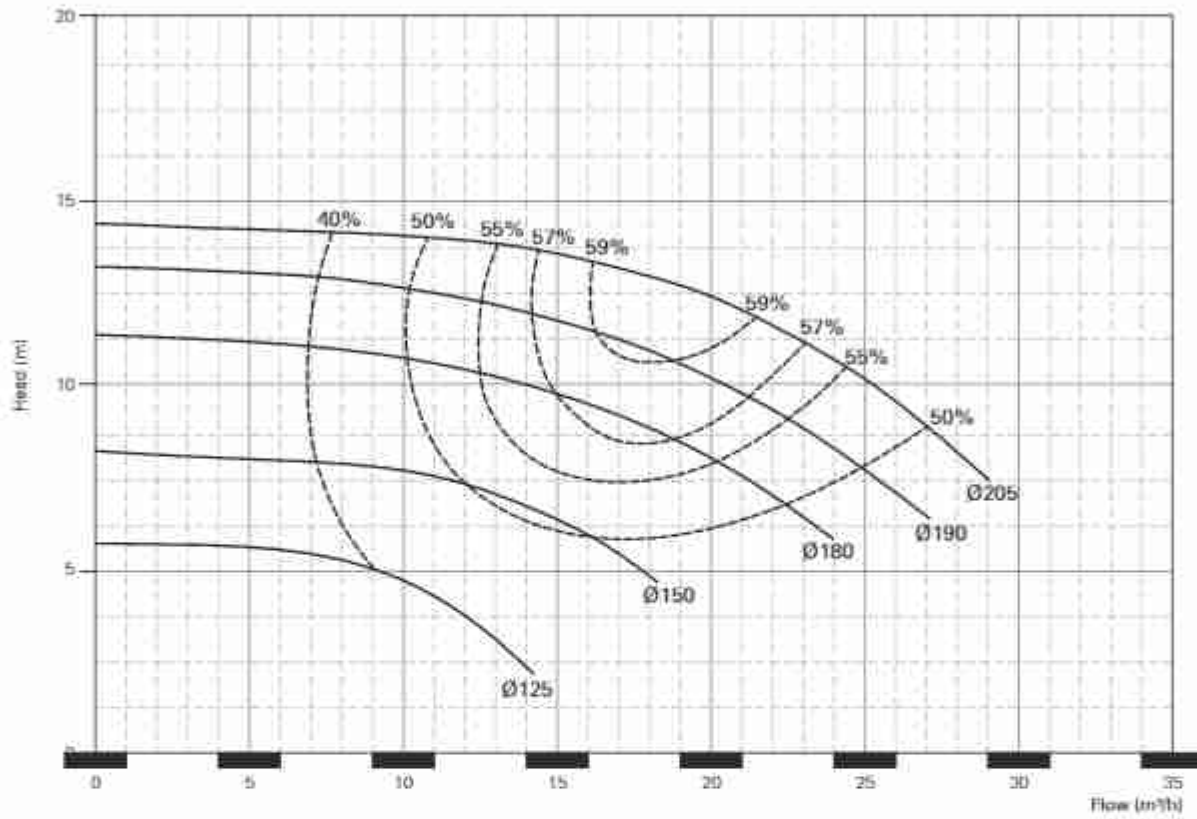
Model	KEC-1.5x1x8
Speed	1450 rpm





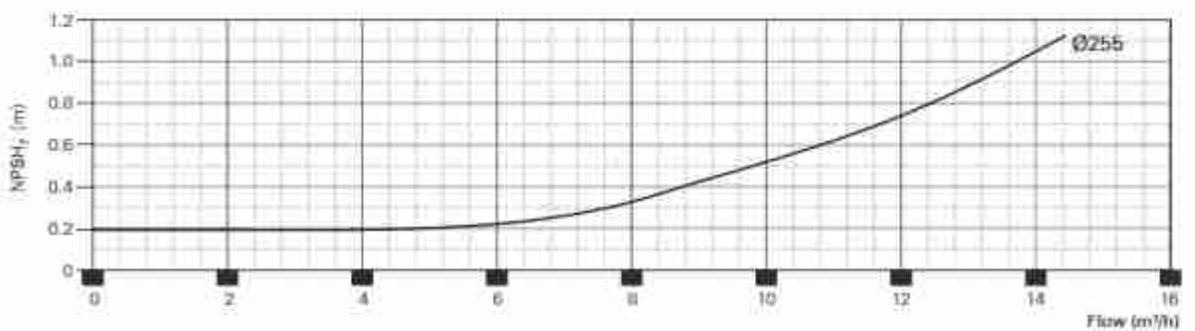
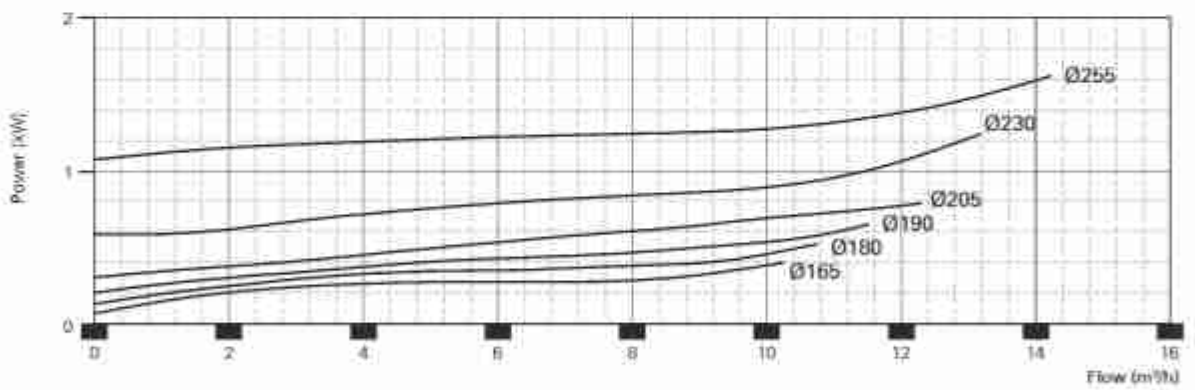
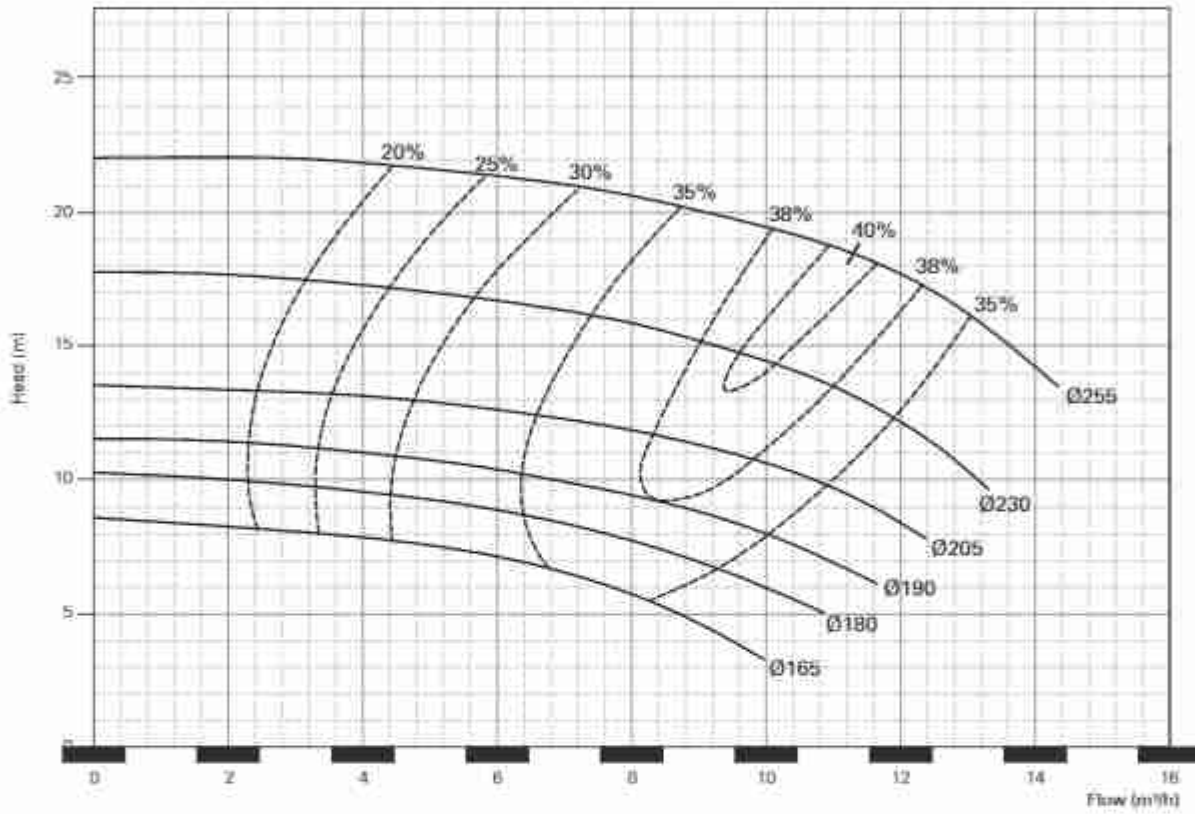
**PERFORMANCE CURVE**

Model	KEC-3x1.5x8
Speed	1450 rpm



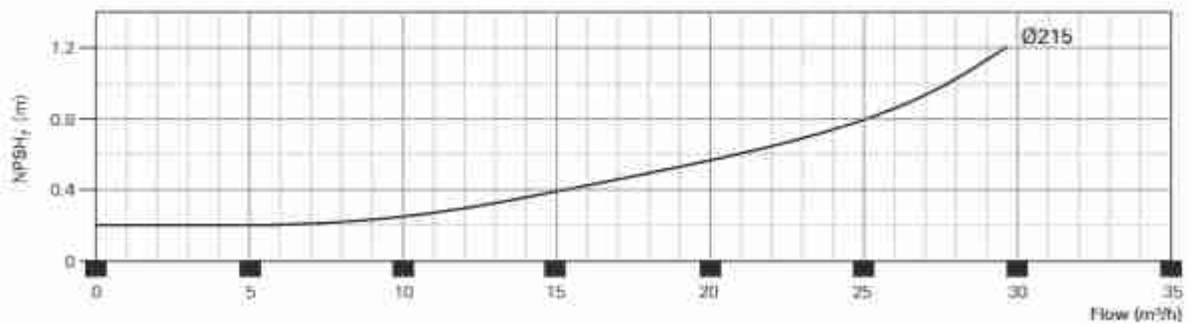
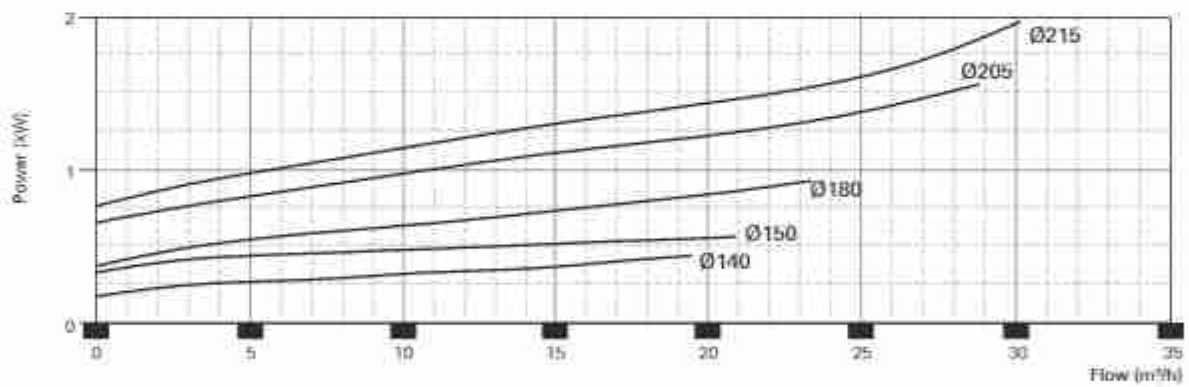
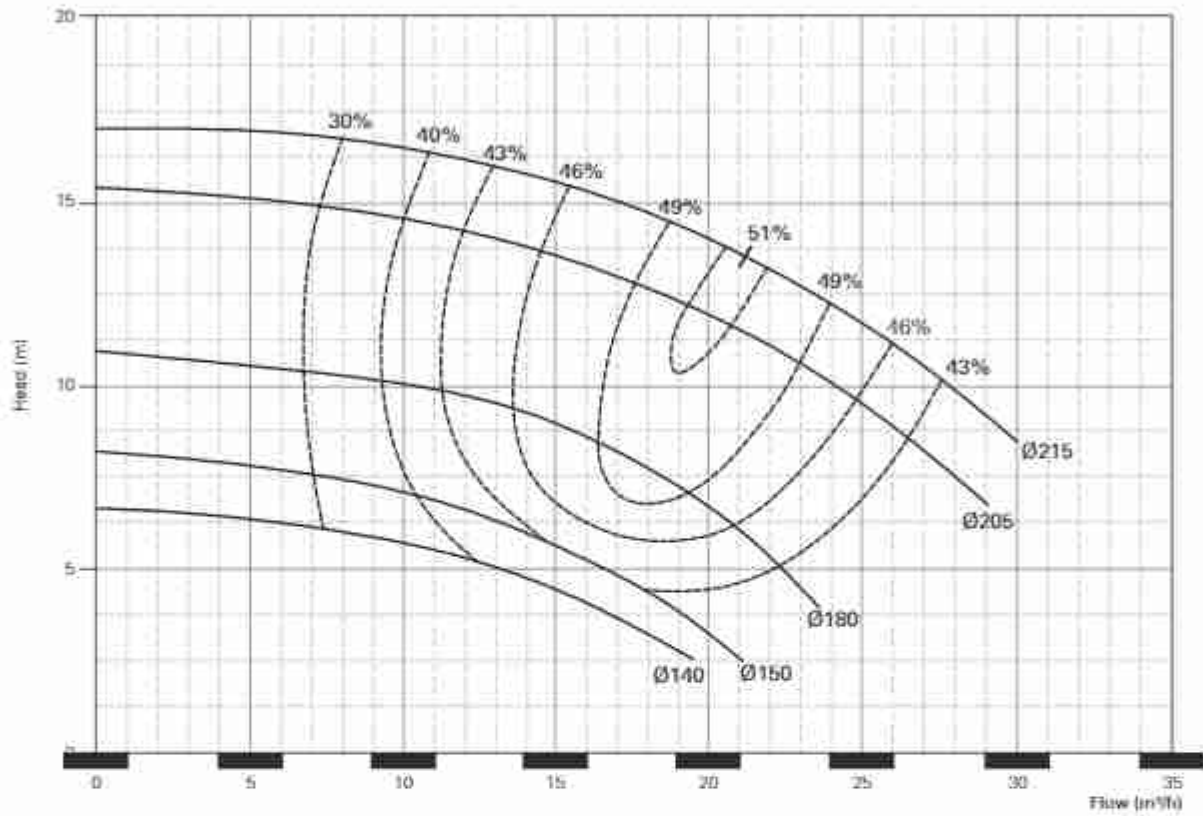
## PERFORMANCE CURVE

Model	KEC-2x1x10
Speed	1450 rpm



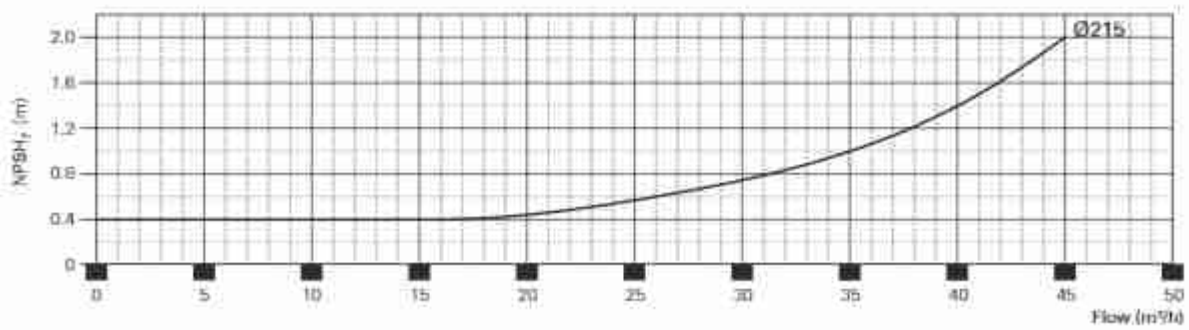
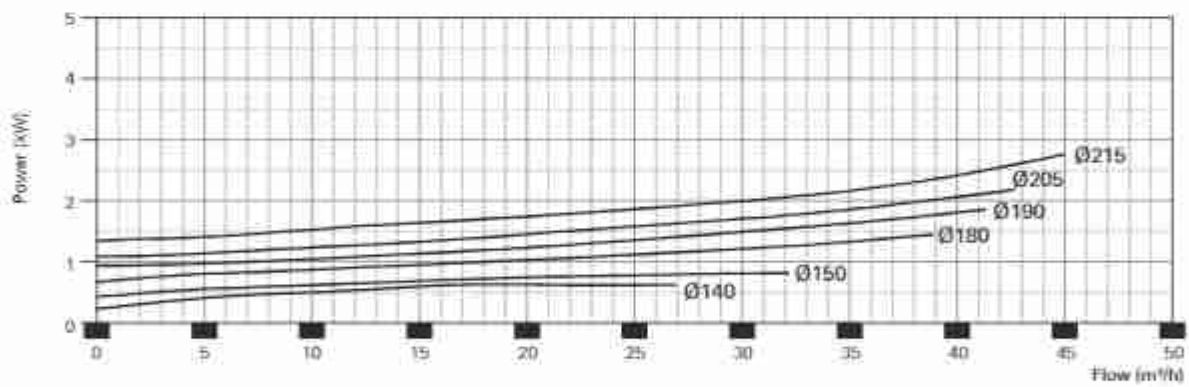
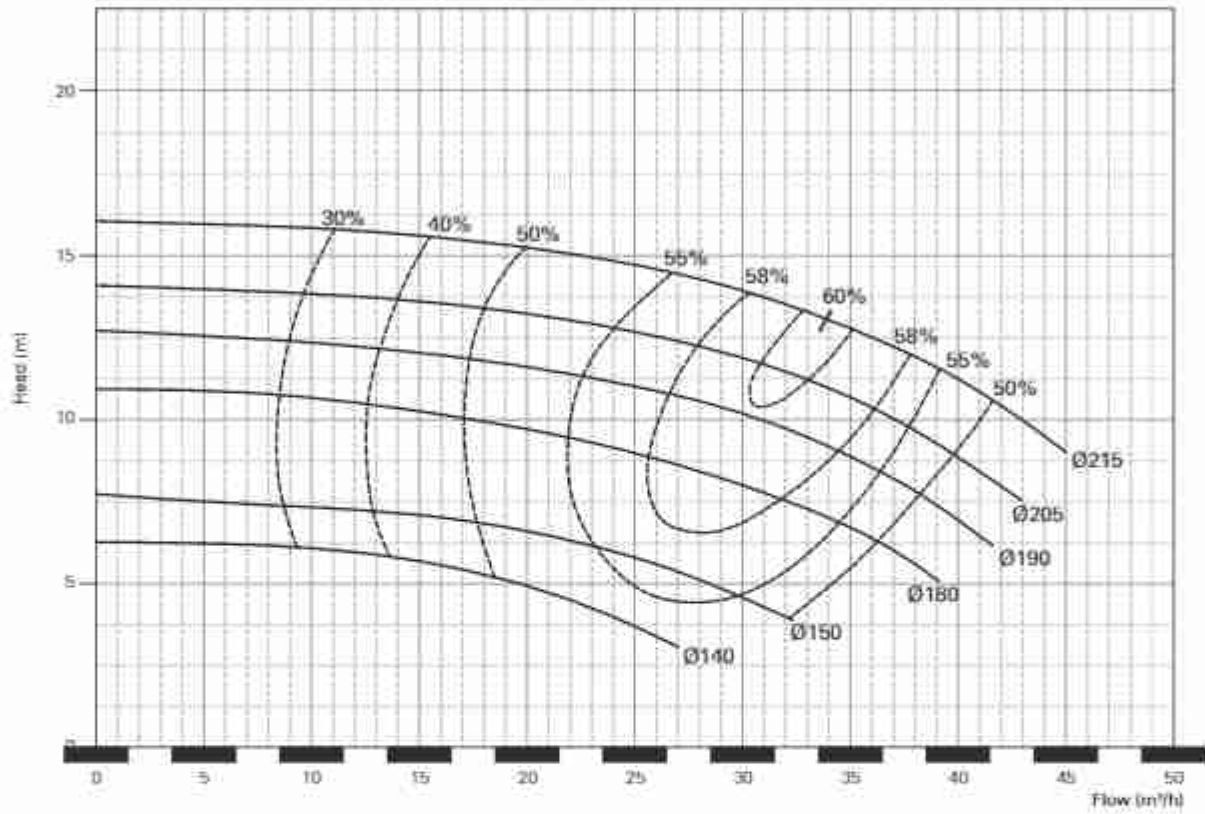
PERFORMANCE CURVE

Model	KEC-3x1.5x8.5
Speed	1450 rpm



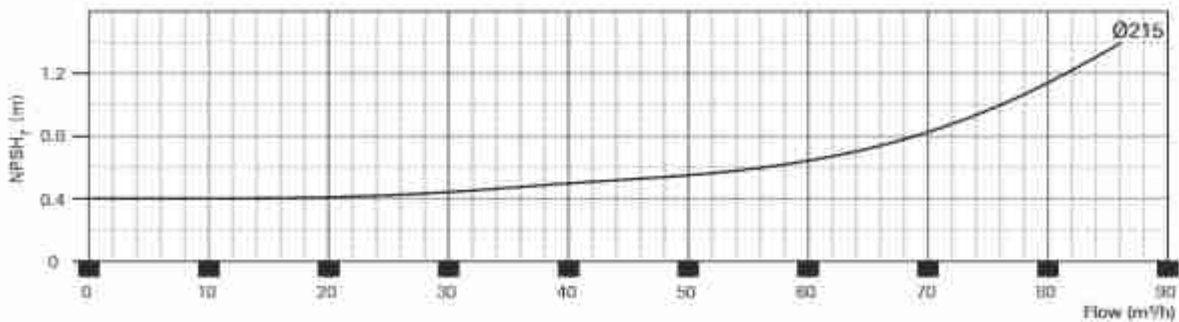
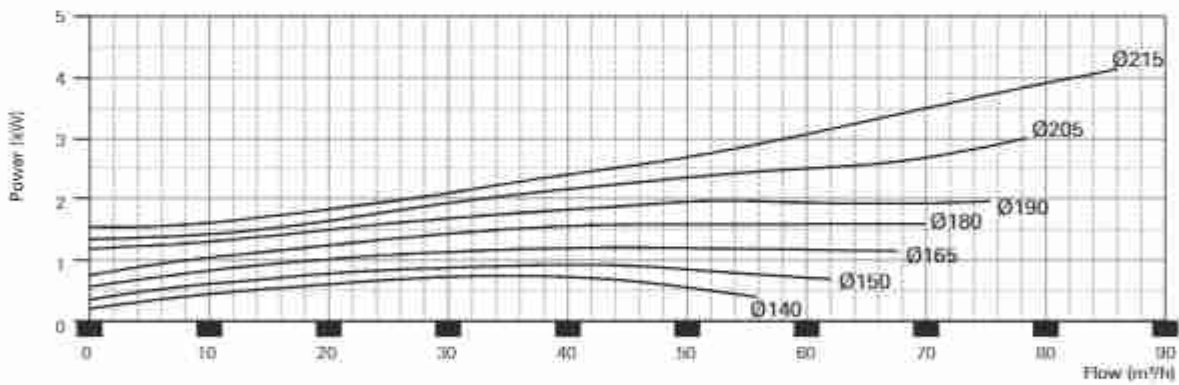
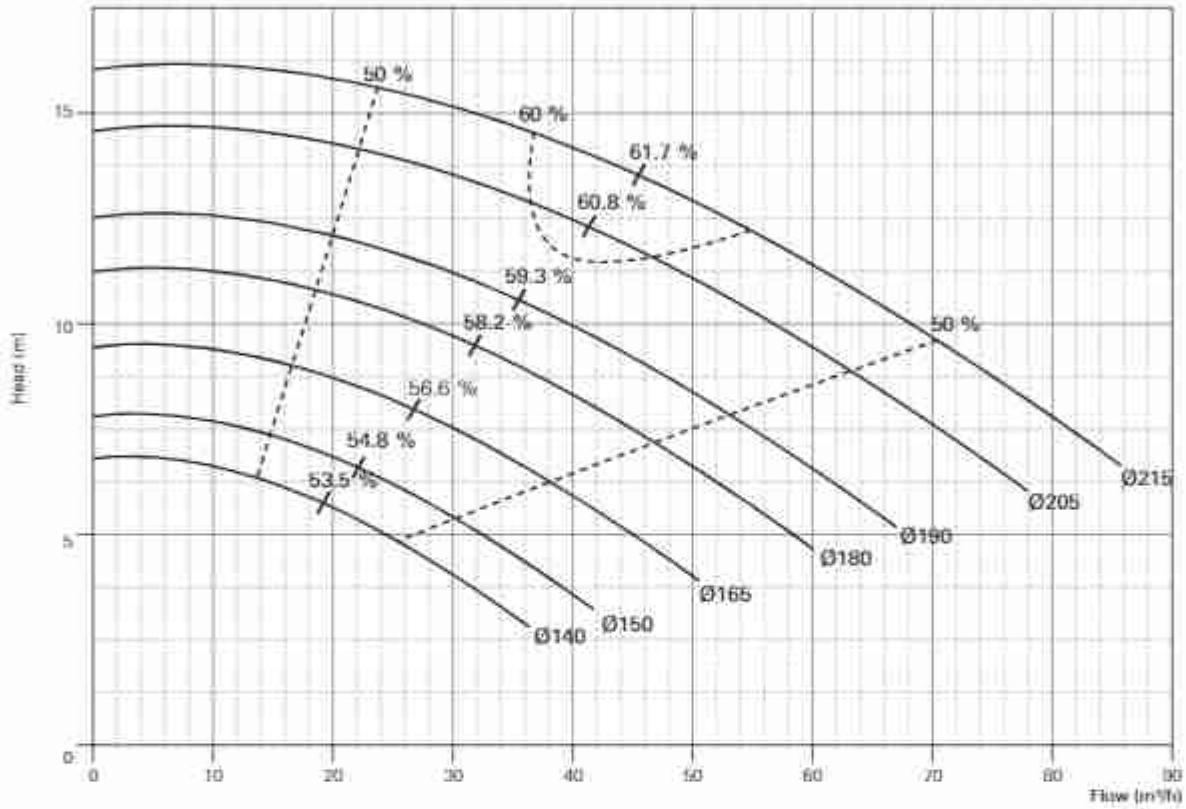
## PERFORMANCE CURVE

Model	KEC-3x2x8.5
Speed	1450 rpm



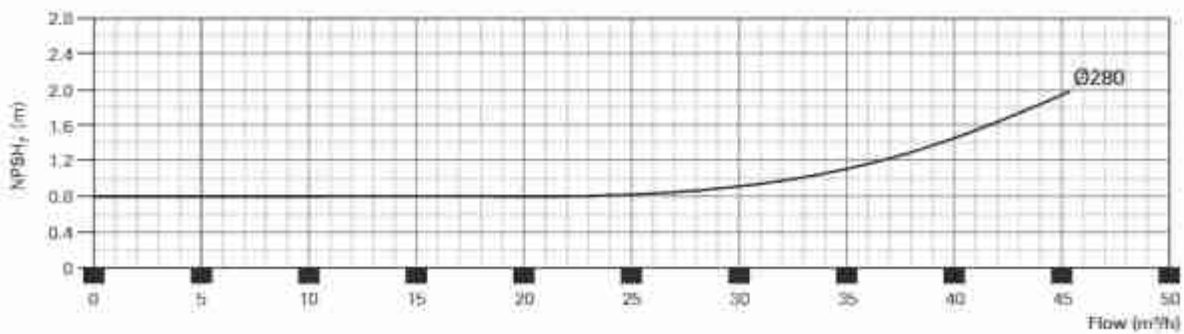
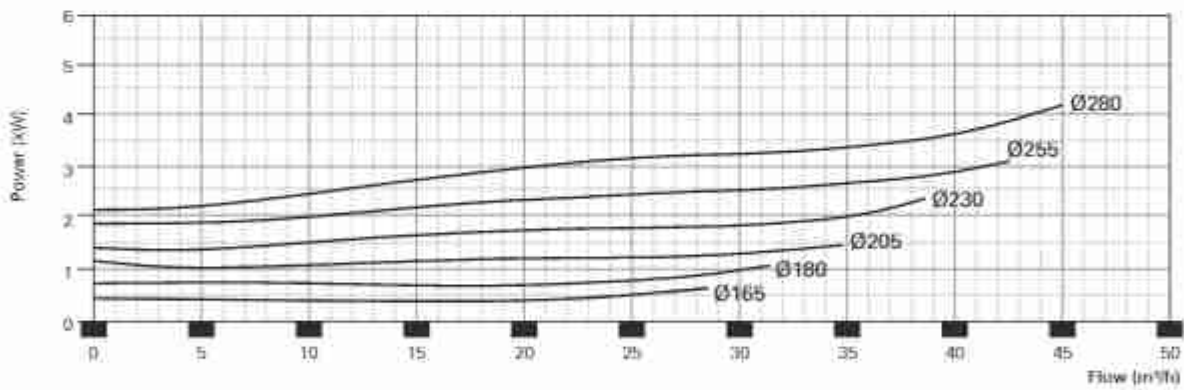
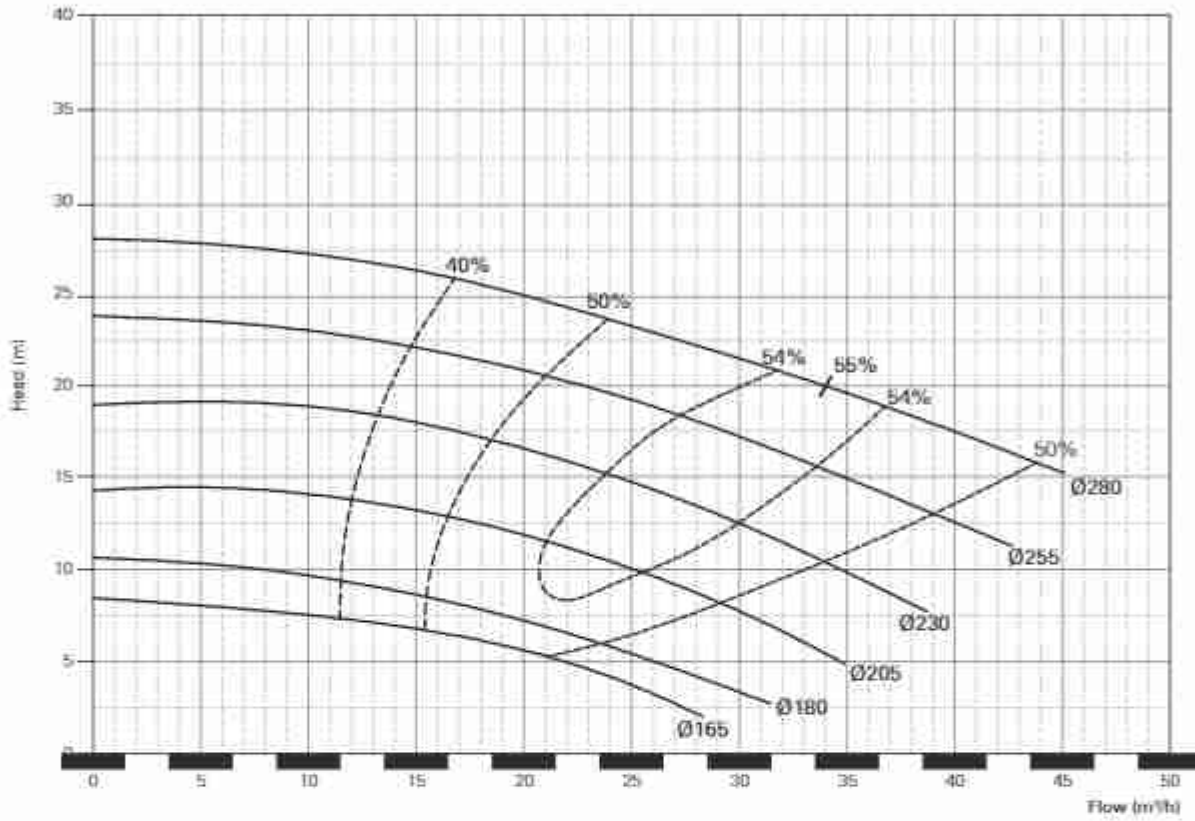
PERFORMANCE CURVE

Model	KEC-4x3x8.5
Speed	1450 rpm



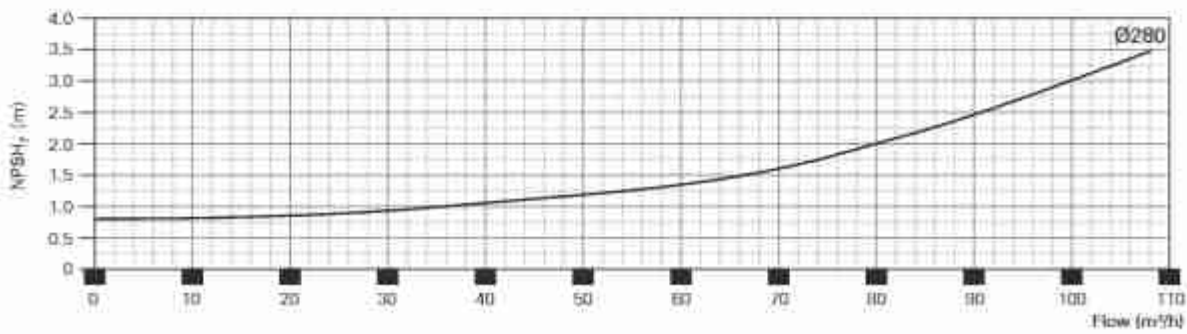
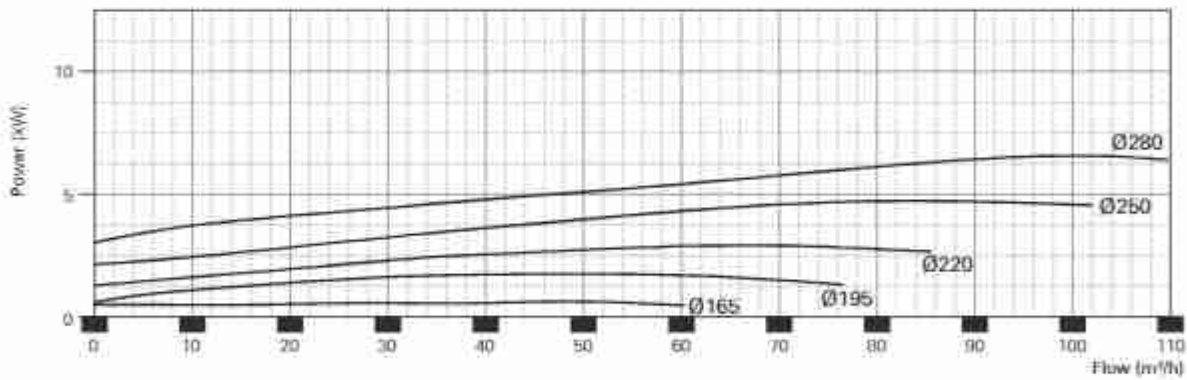
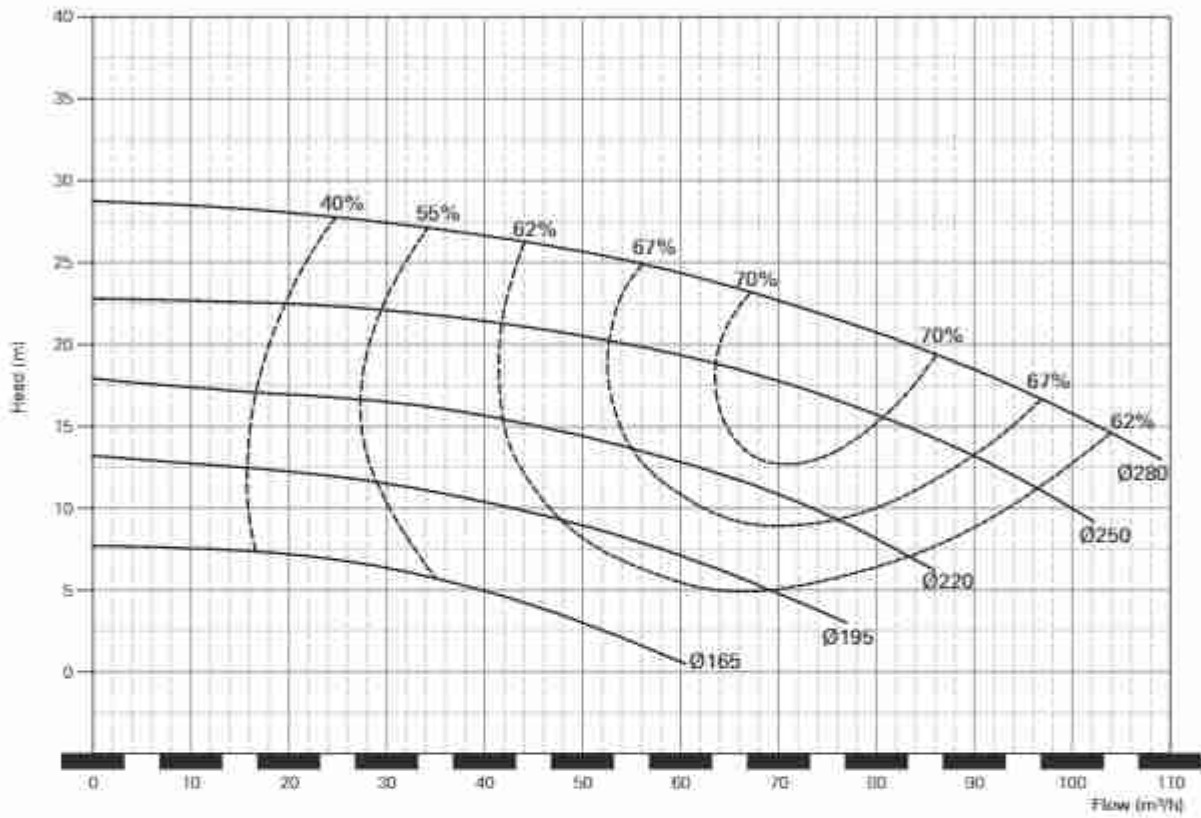
## PERFORMANCE CURVE

Model	KEC-3x1.5x11
Speed	1450 rpm



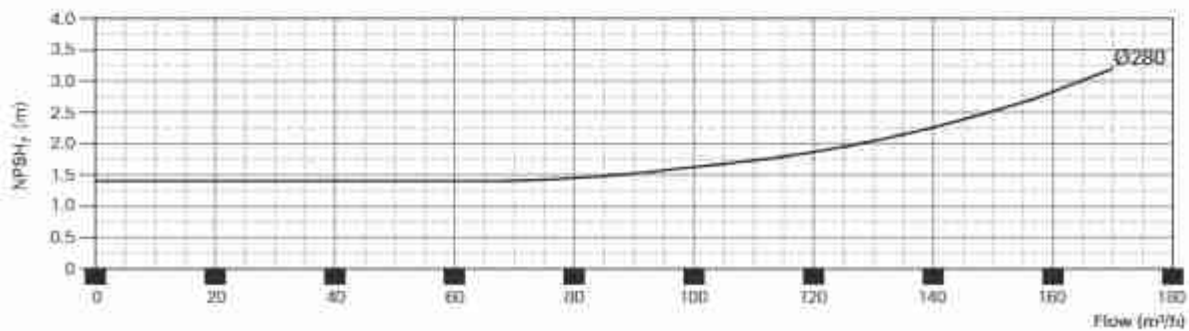
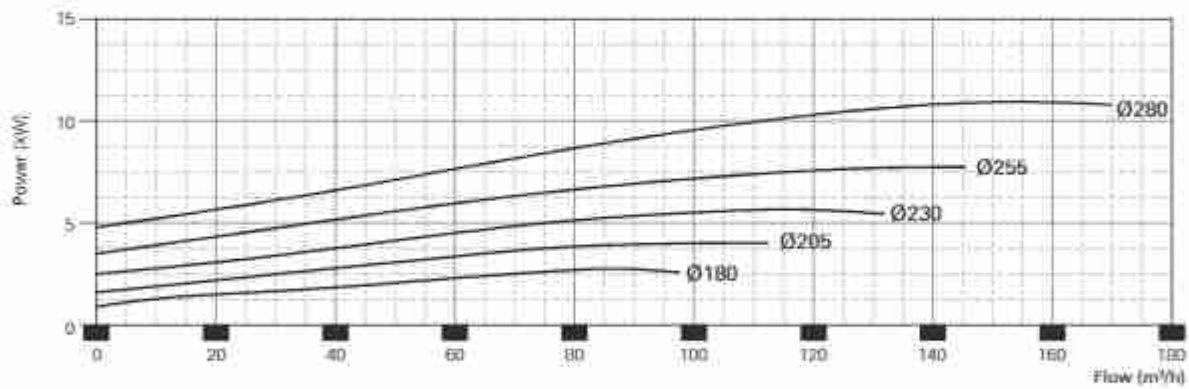
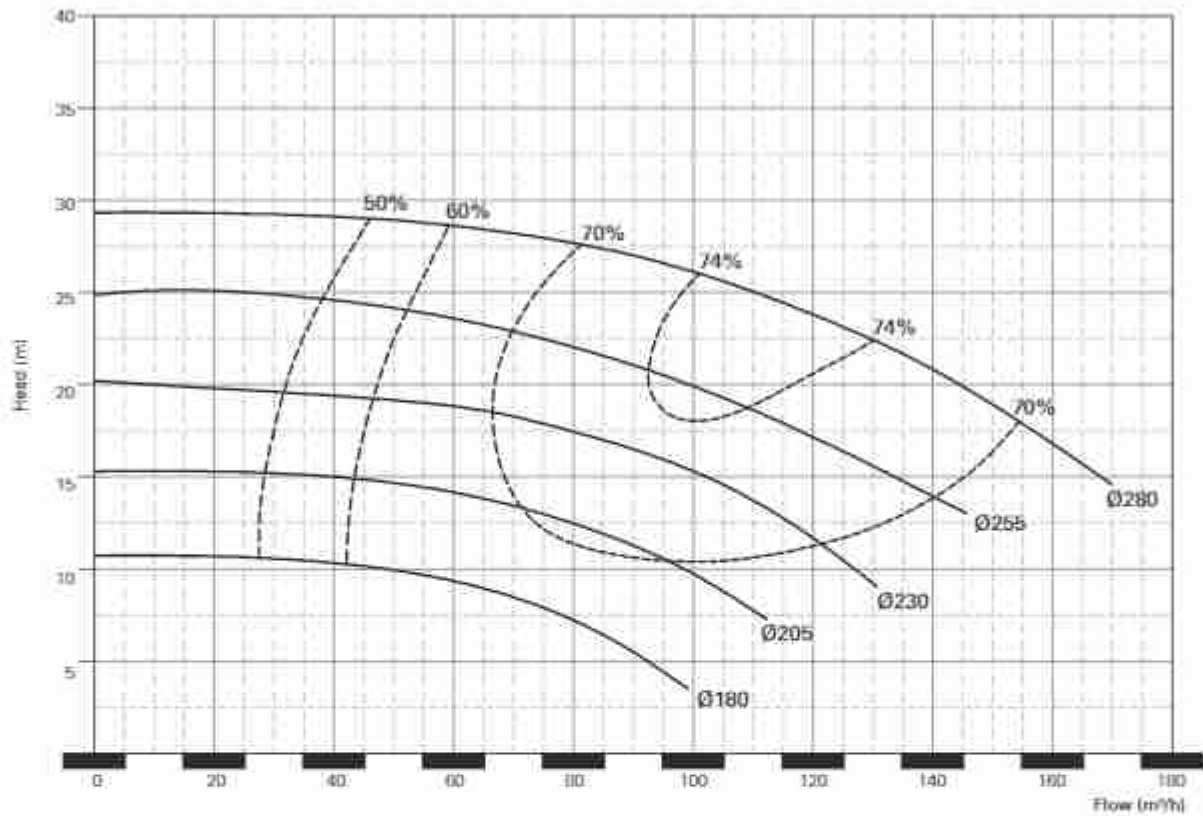
**PERFORMANCE CURVE**

Model	KEC-3x2x11
Speed	1450 rpm



## PERFORMANCE CURVE

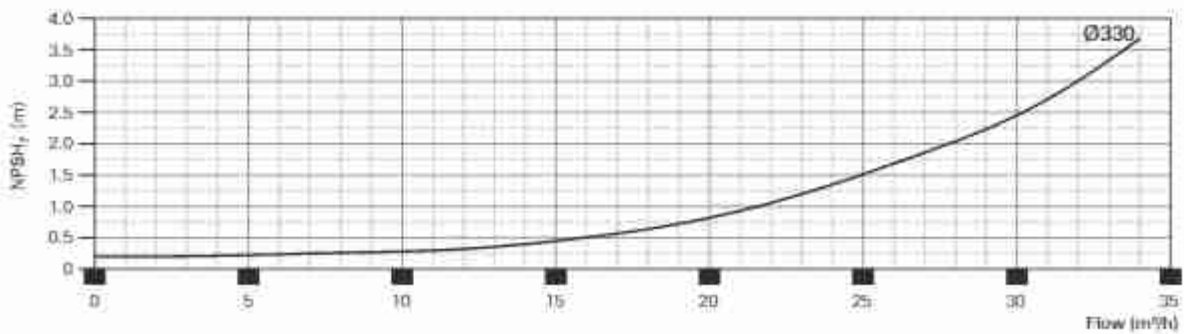
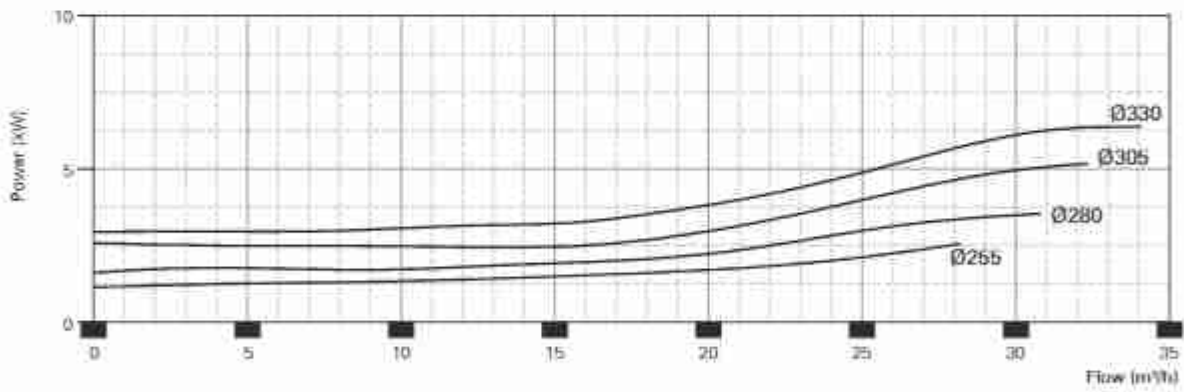
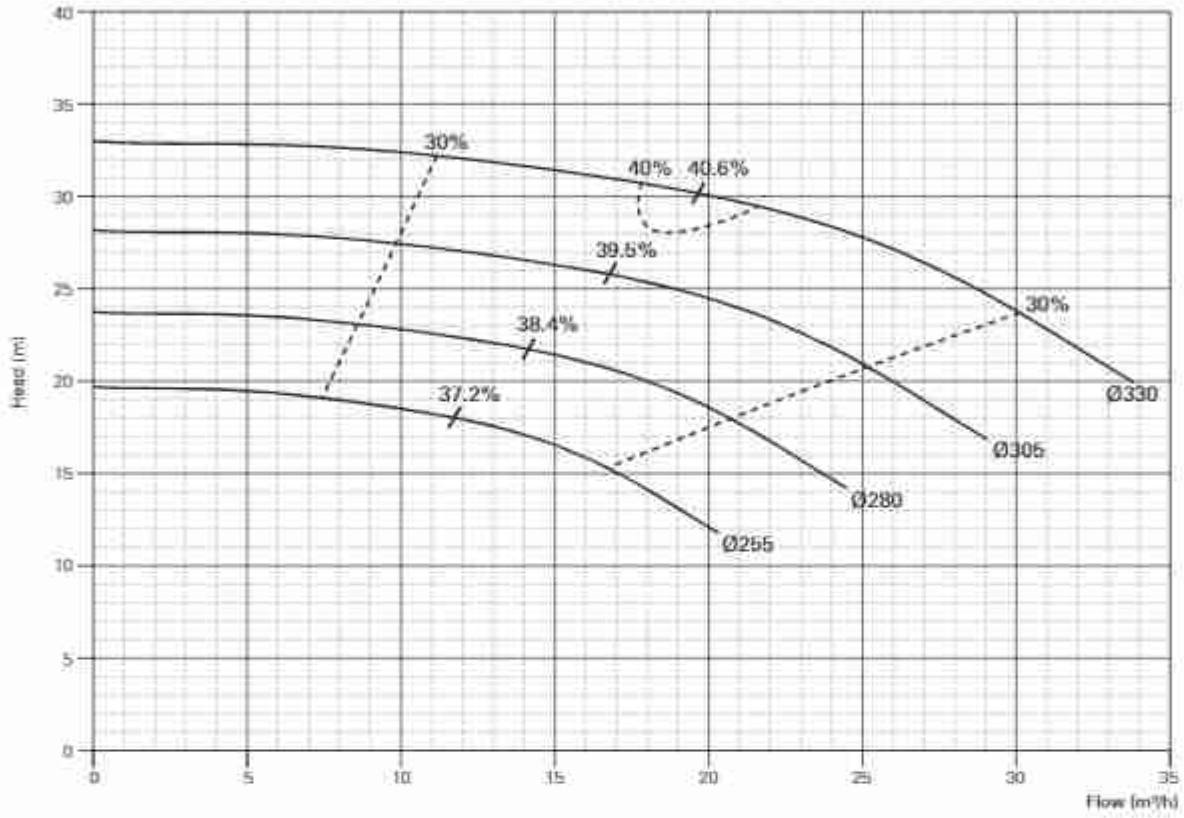
Model	KEC-4x3x11
Speed	1450 rpm





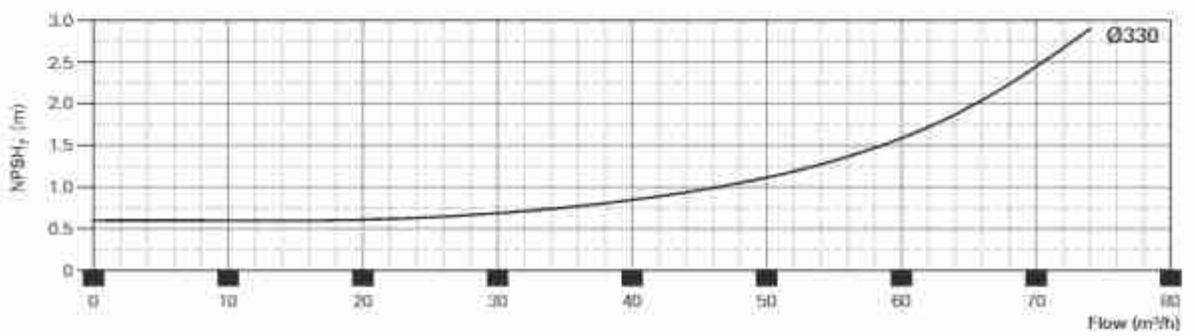
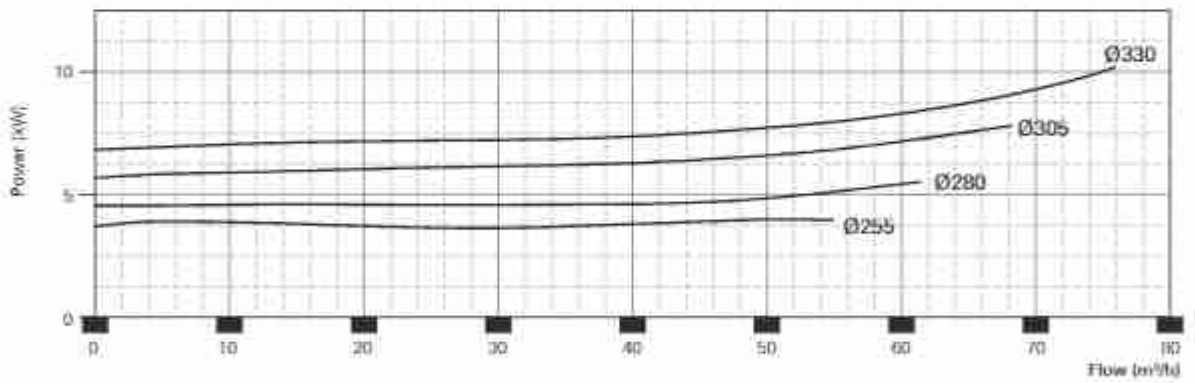
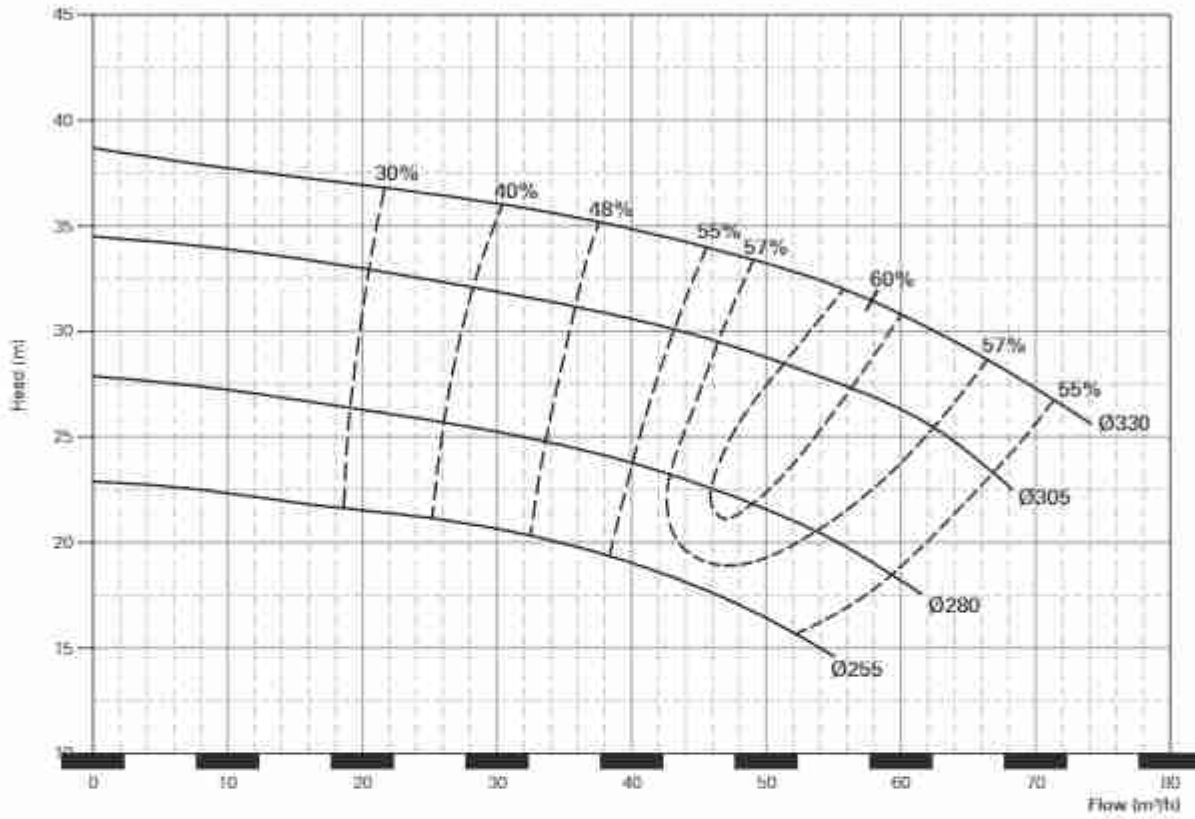
PERFORMANCE CURVE

Model	KEC-3x1.5x13
Speed	1450 rpm



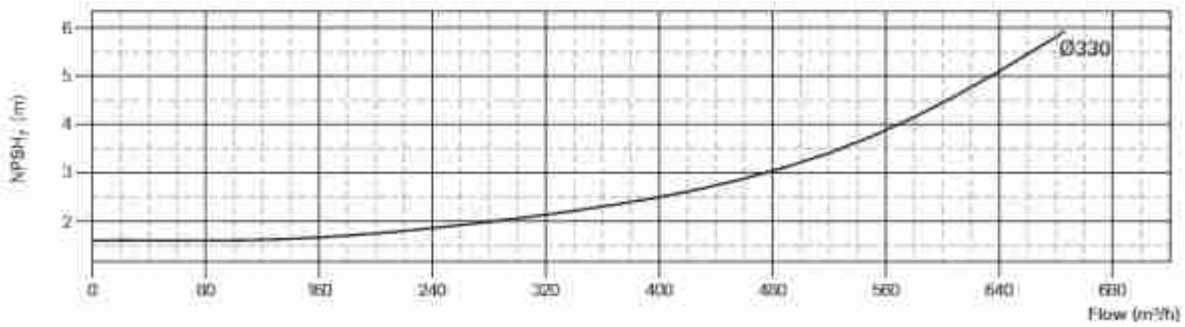
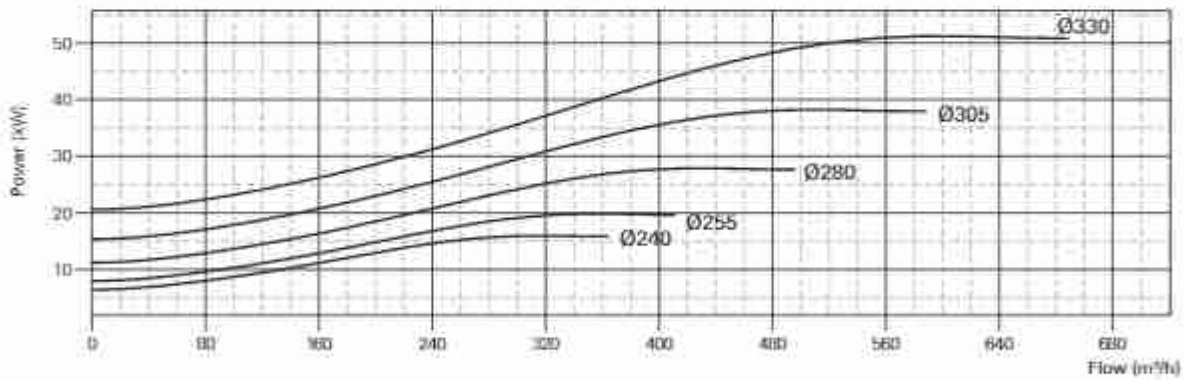
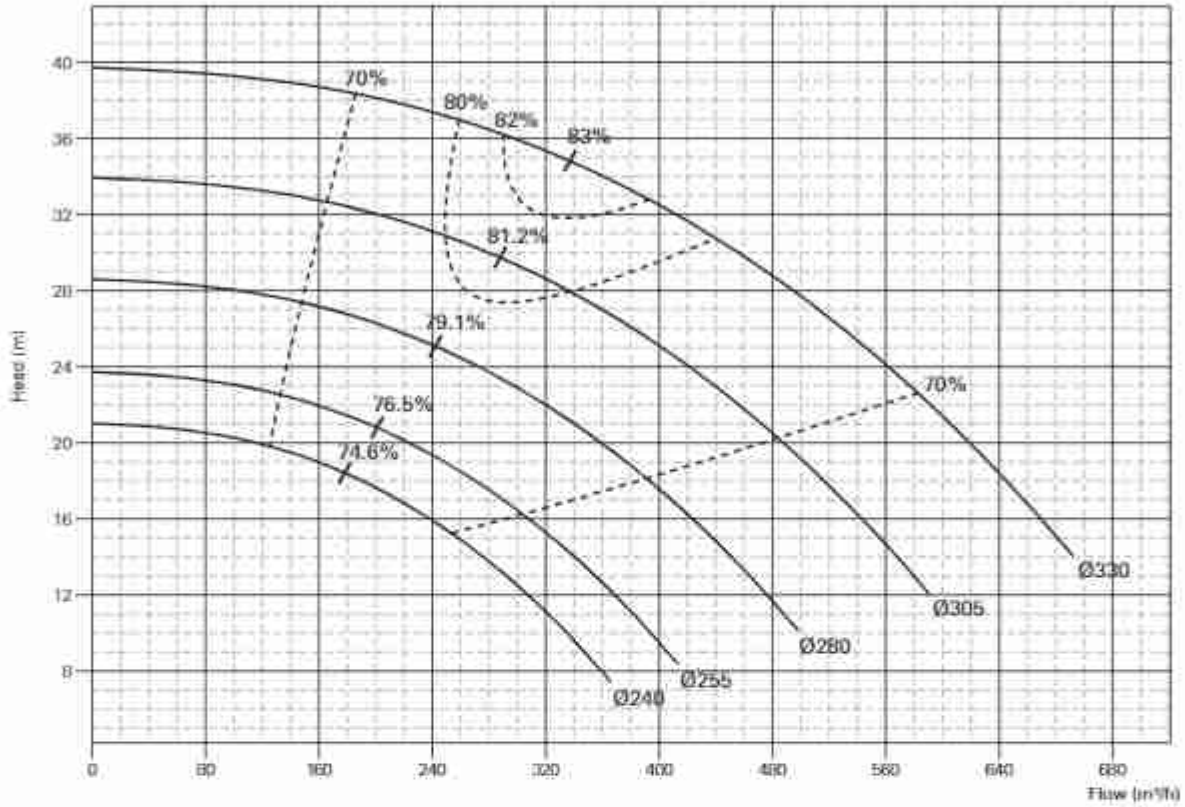
## PERFORMANCE CURVE

Model	KEC-3x2x13
Speed	1450 rpm



PERFORMANCE CURVE

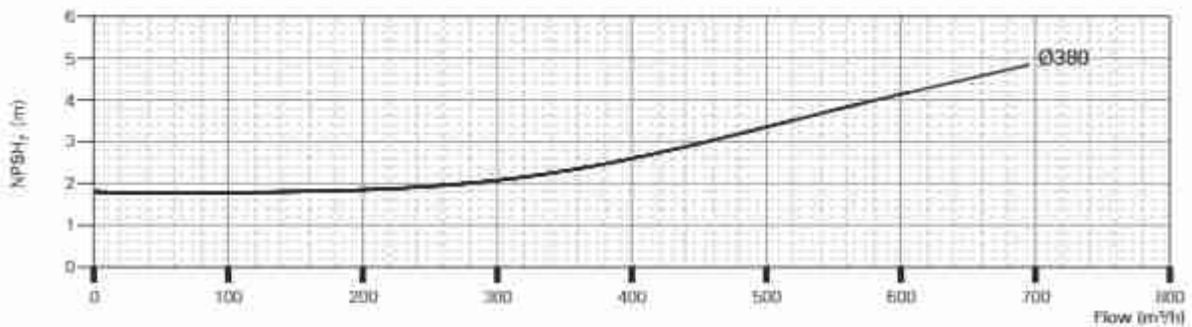
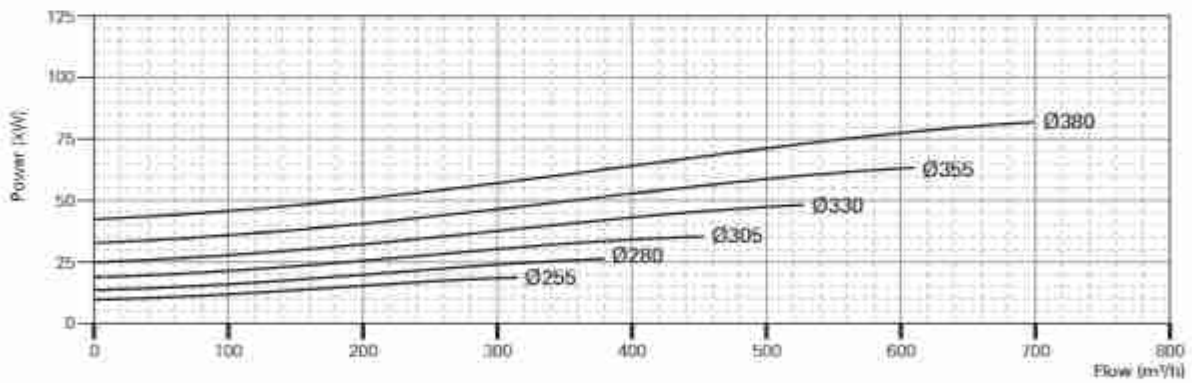
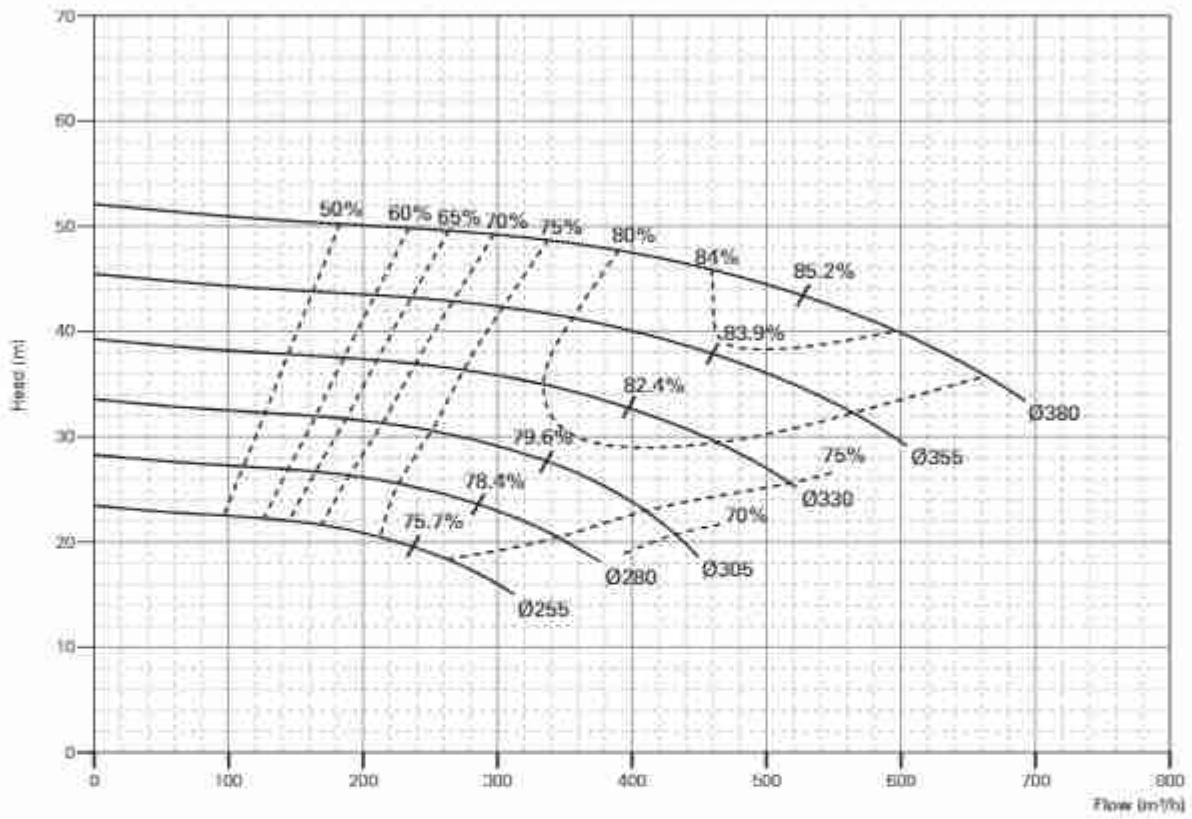
Model	KEC-3x6x16
Speed	1450 rpm



# END SUCTION CHEMICAL PUMPS

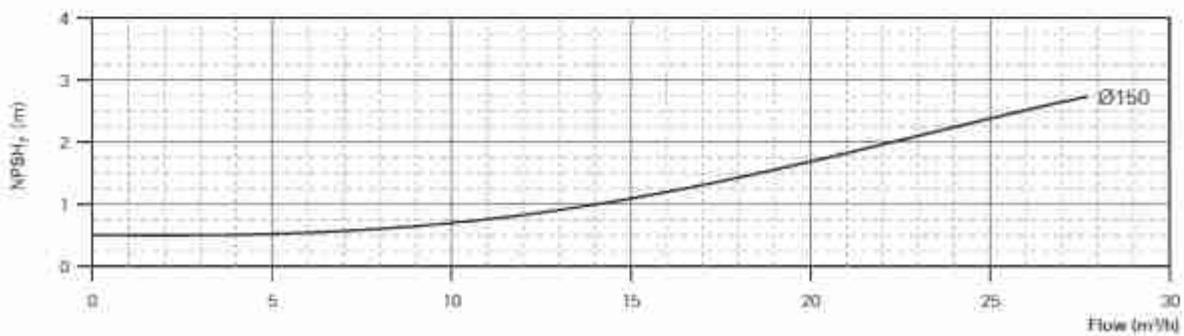
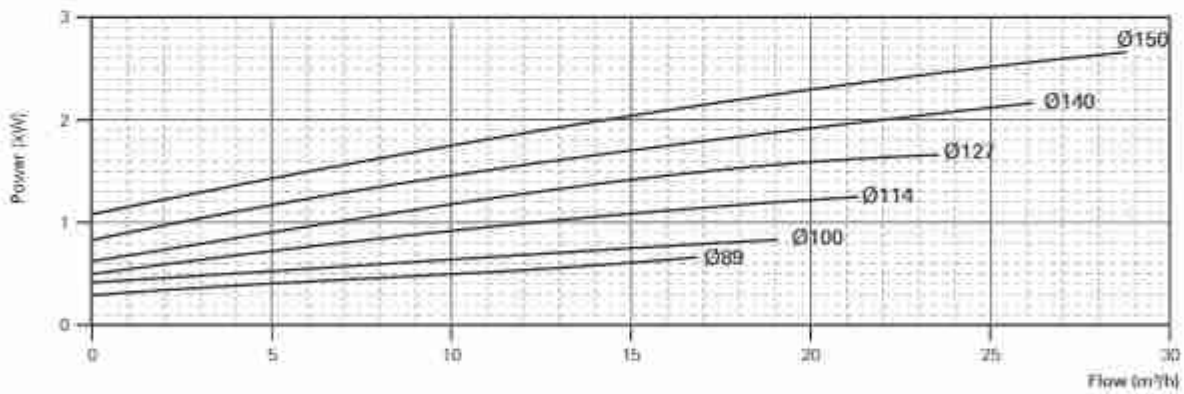
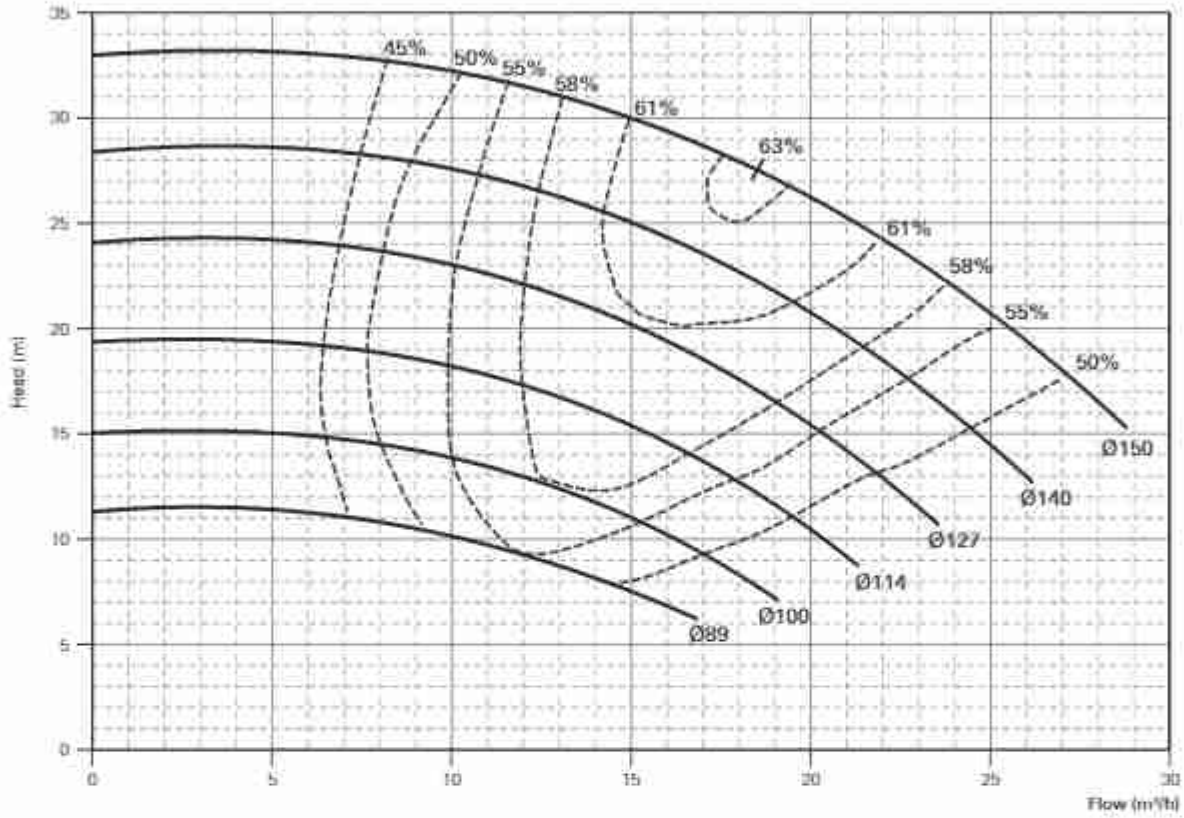
## PERFORMANCE CURVE

Model	KEC-10x8x15
Speed	1450 rpm



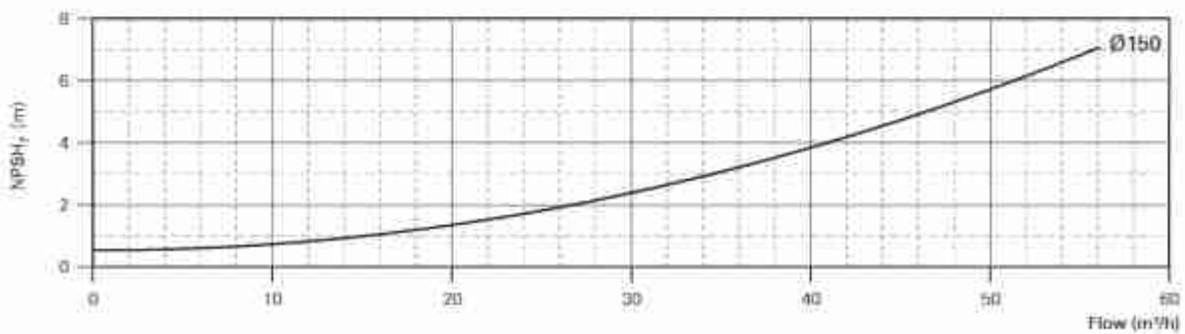
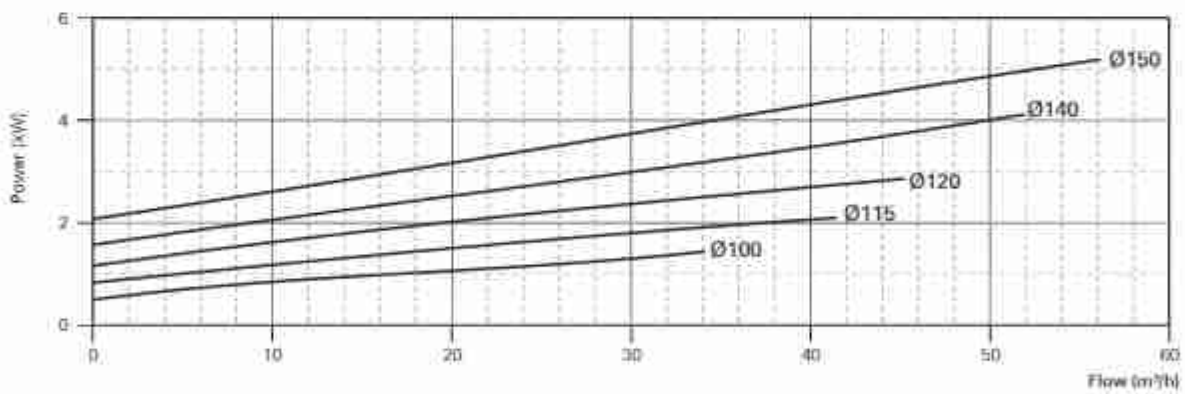
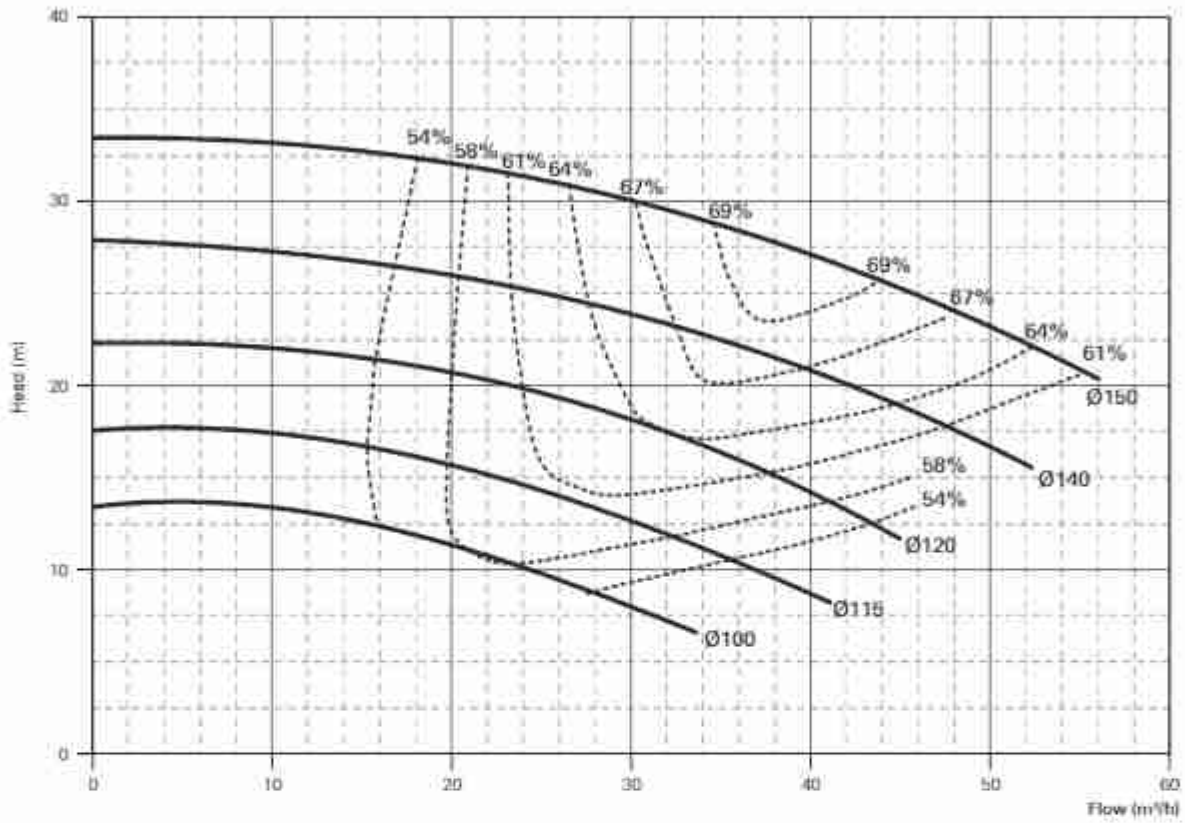
PERFORMANCE CURVE

Model	KEC-1.5x1x6
Speed	2900 rpm



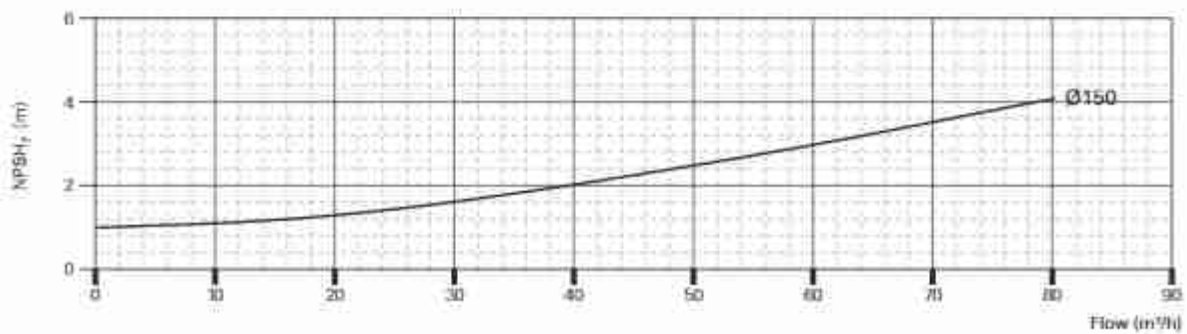
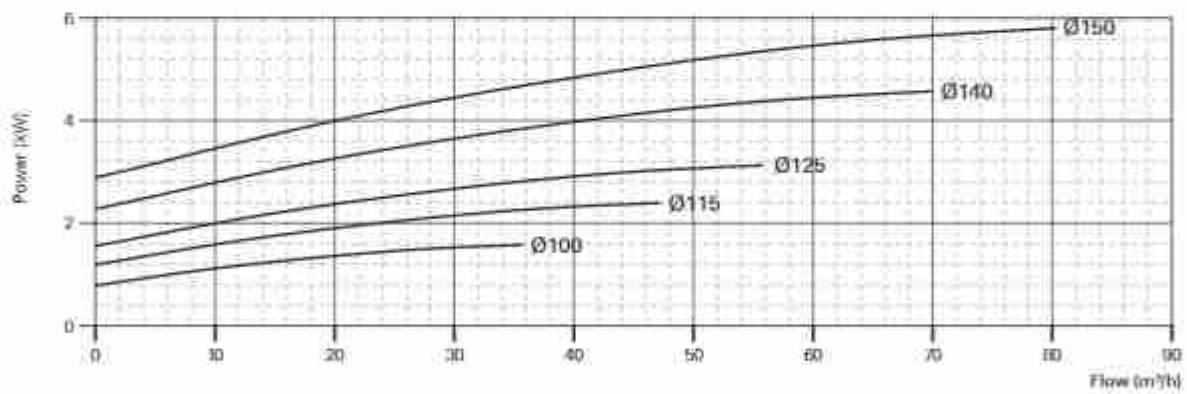
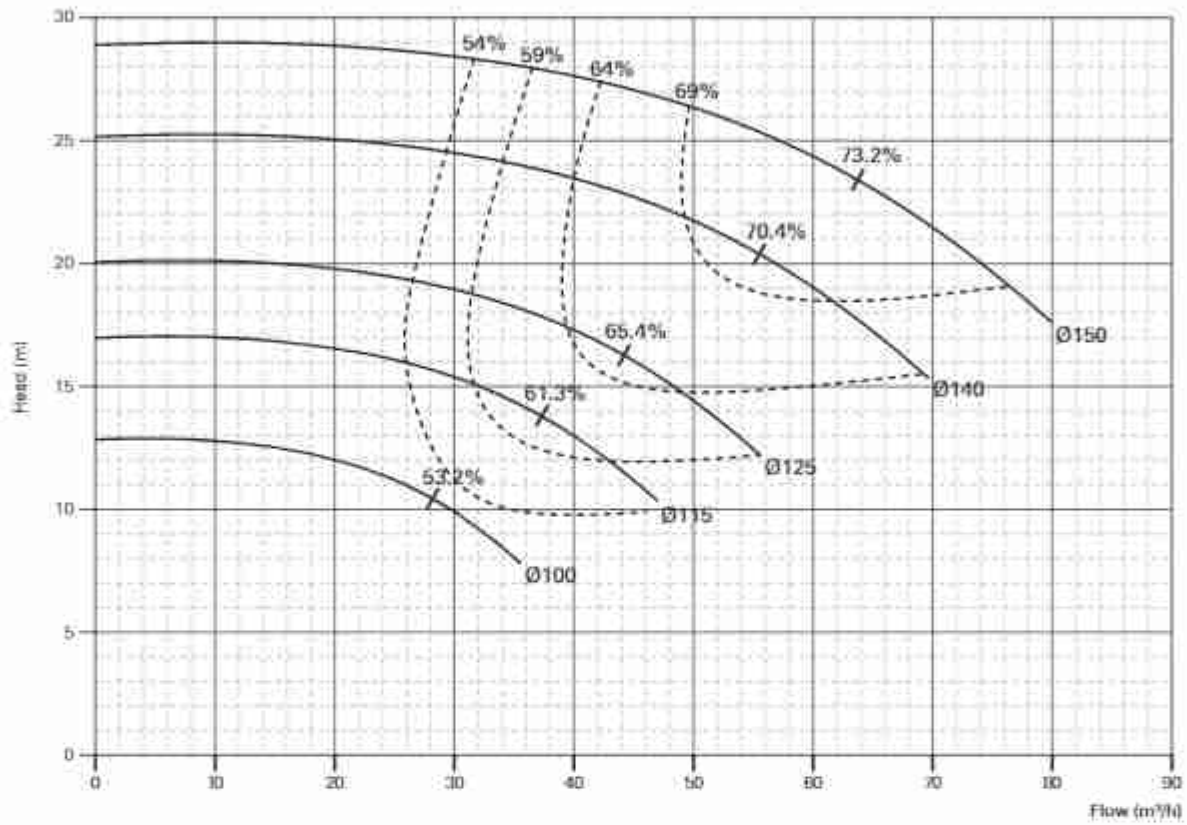
## PERFORMANCE CURVE

Model	KEC-3x1.5x6
Speed	2900 rpm



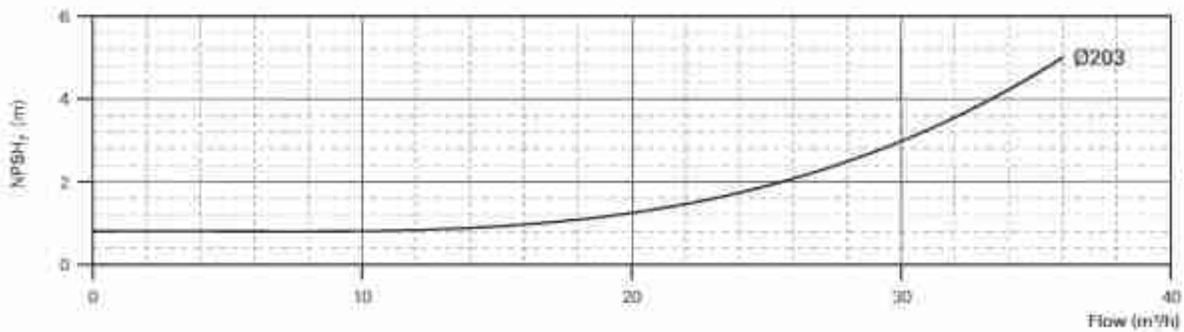
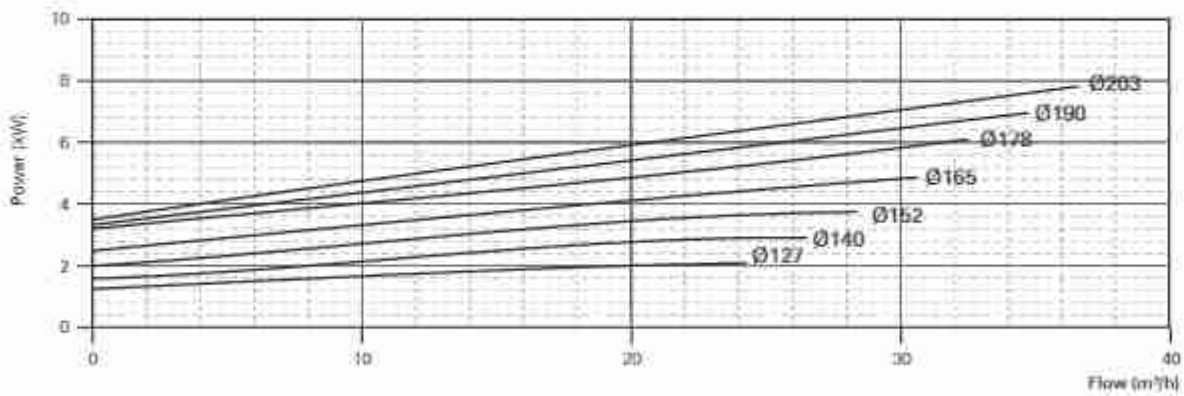
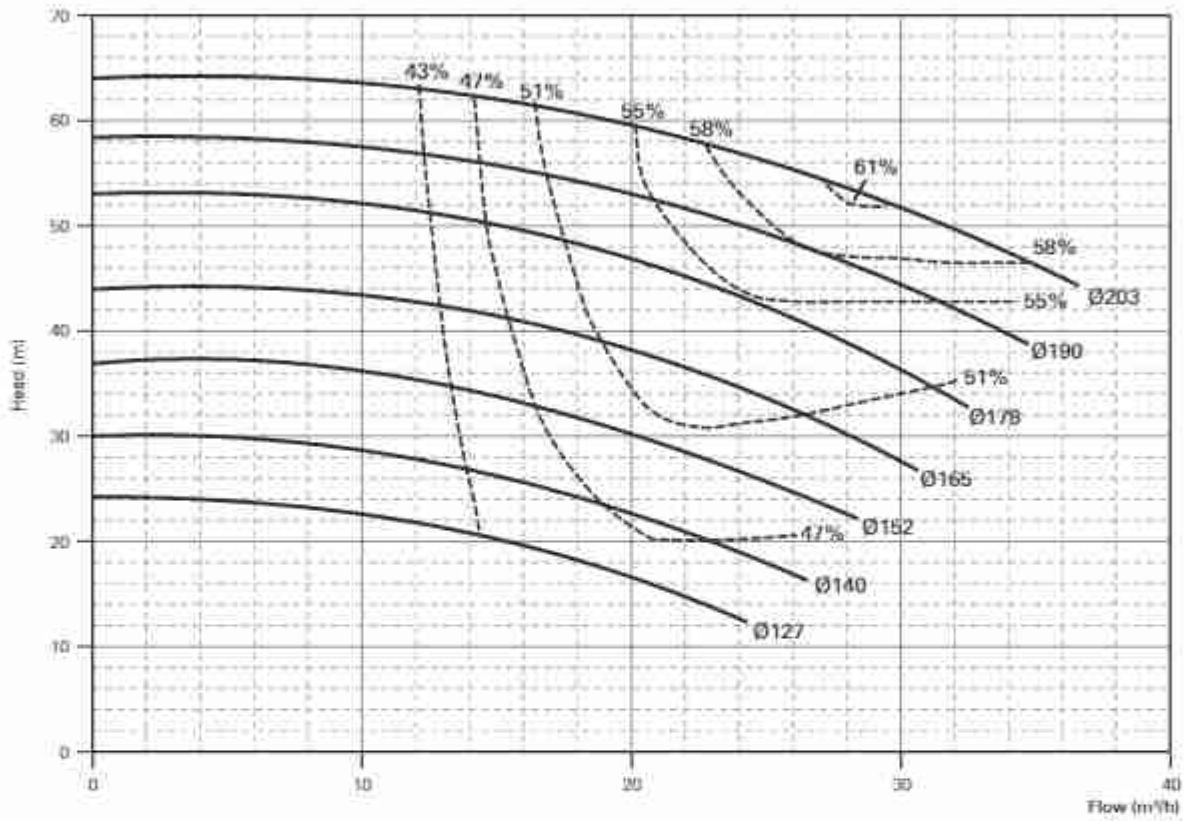
PERFORMANCE CURVE

Model	KEC-3x2x6
Speed	2900 rpm



## PERFORMANCE CURVE

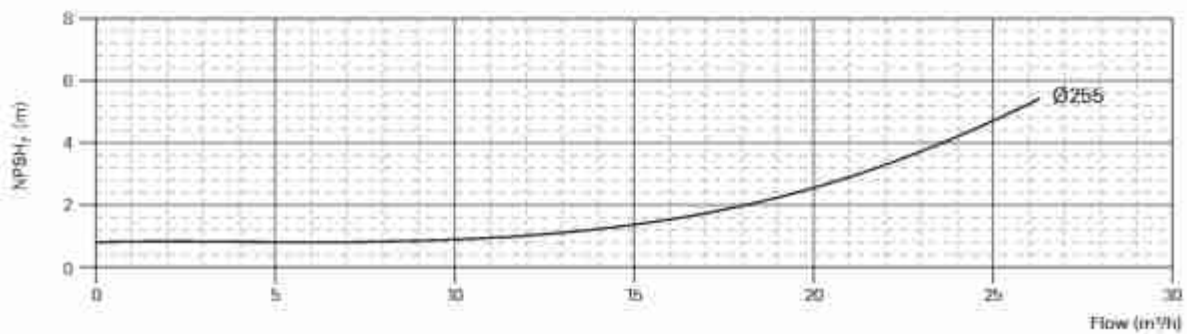
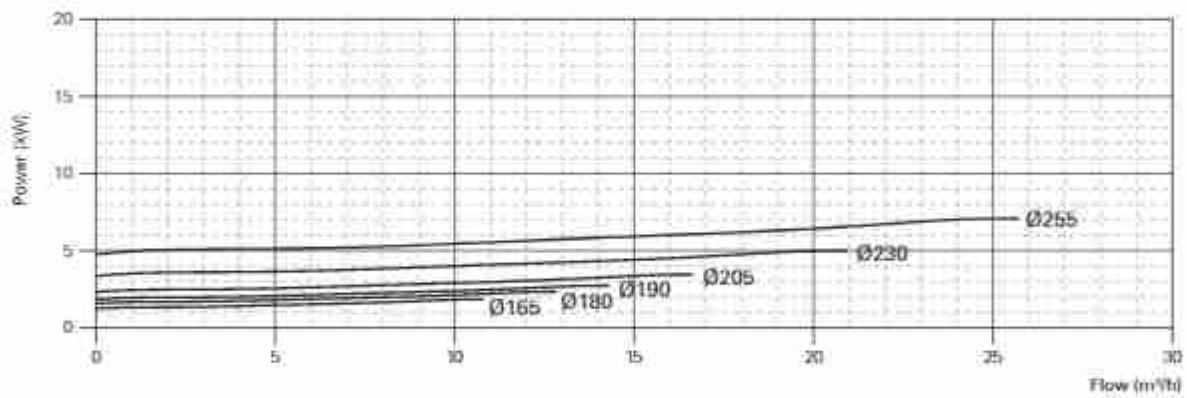
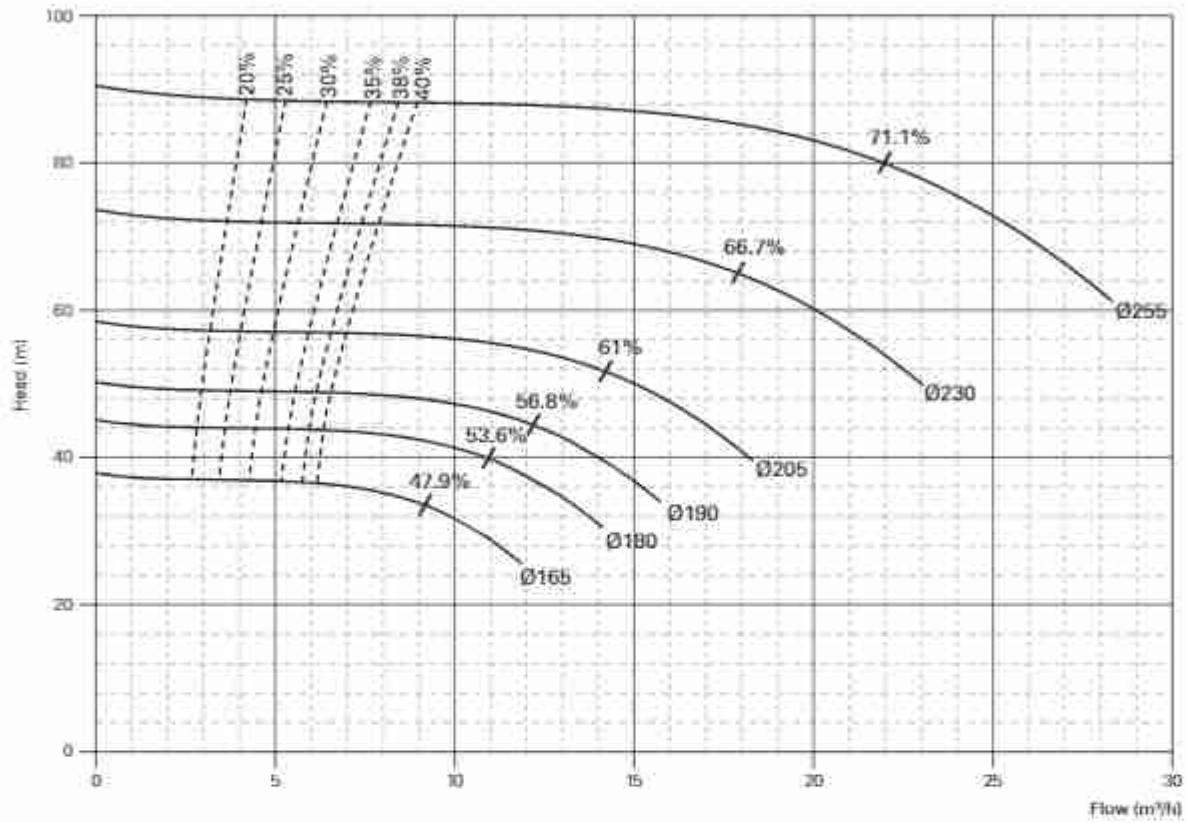
Model	KEC-1.5x1x8
Speed	2900 rpm





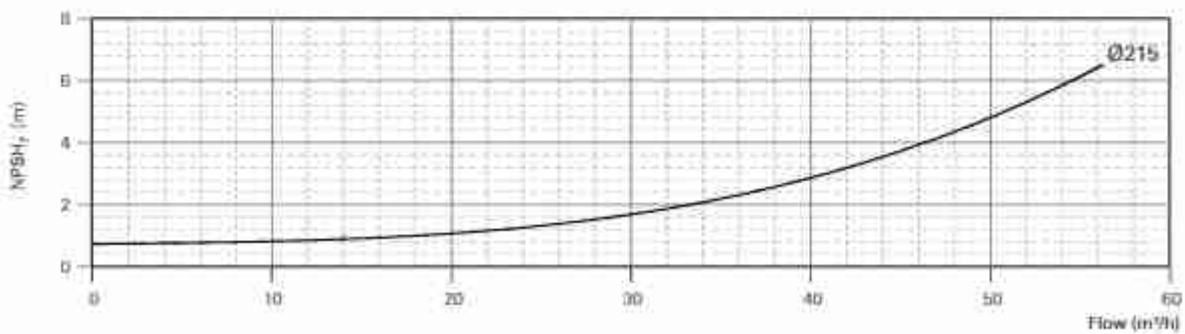
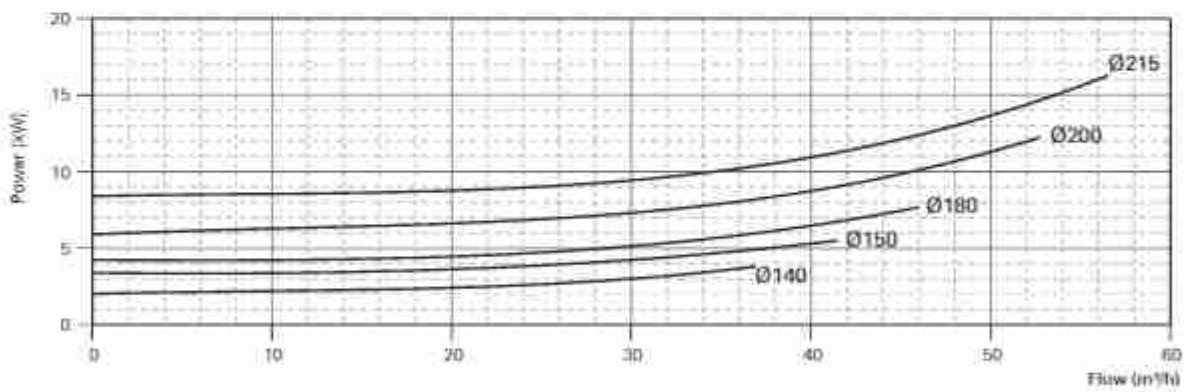
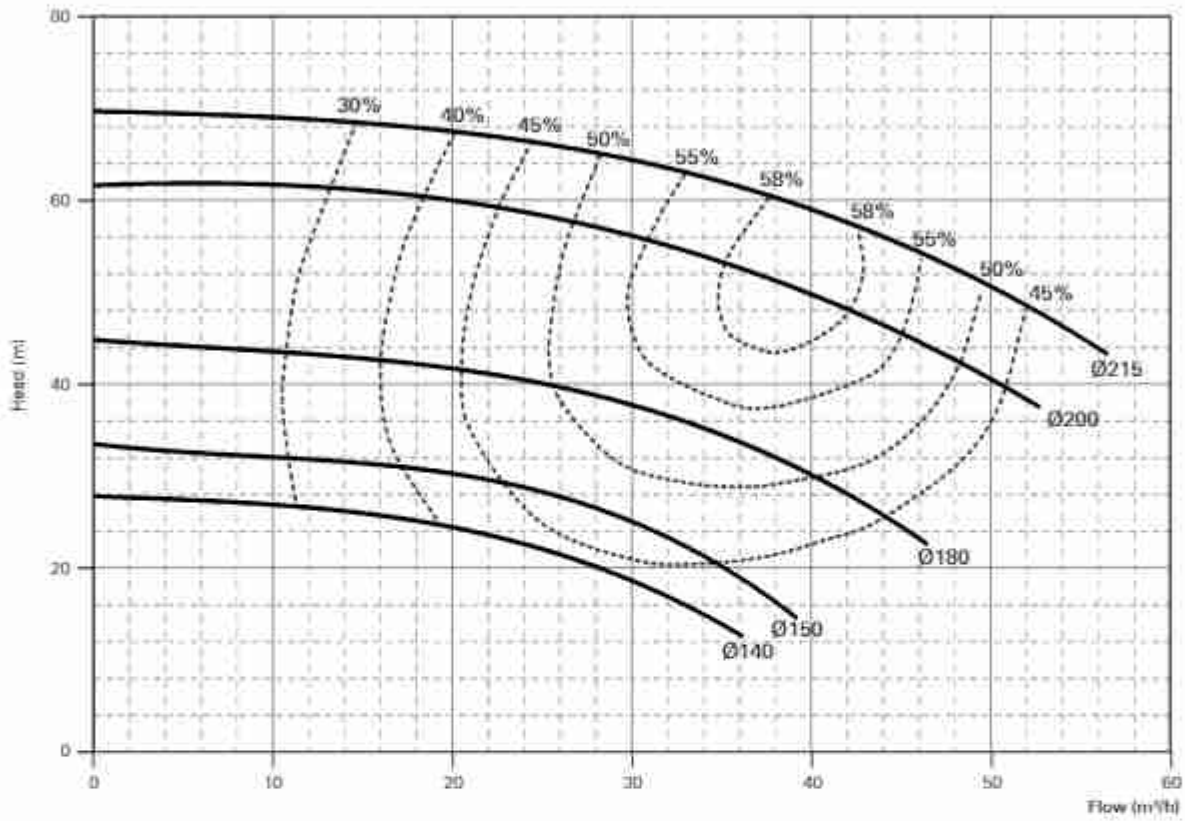
PERFORMANCE CURVE

Model	KEC-2x1x10
Speed	2900 rpm



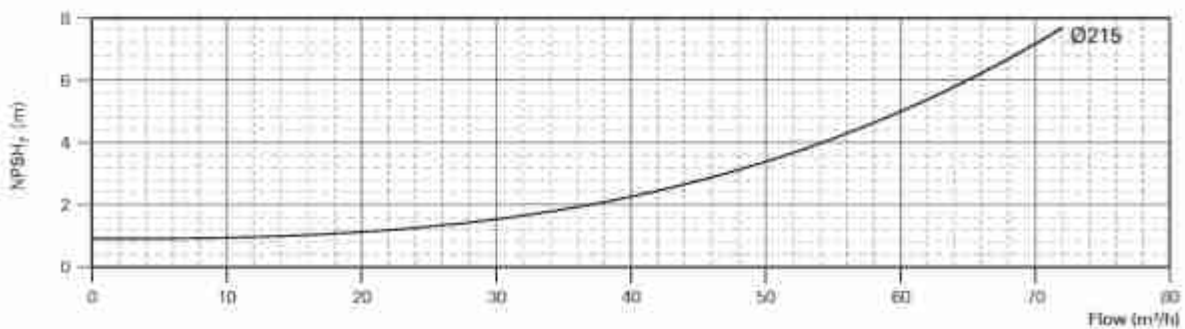
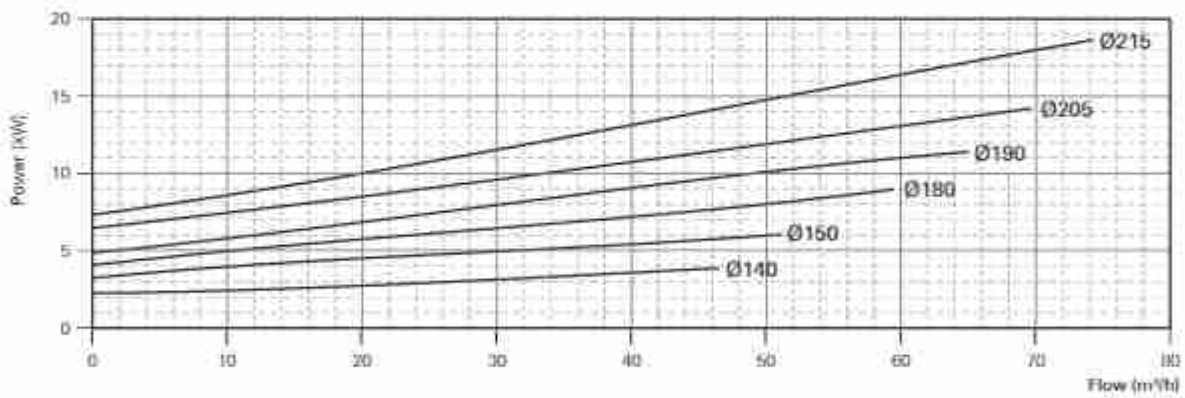
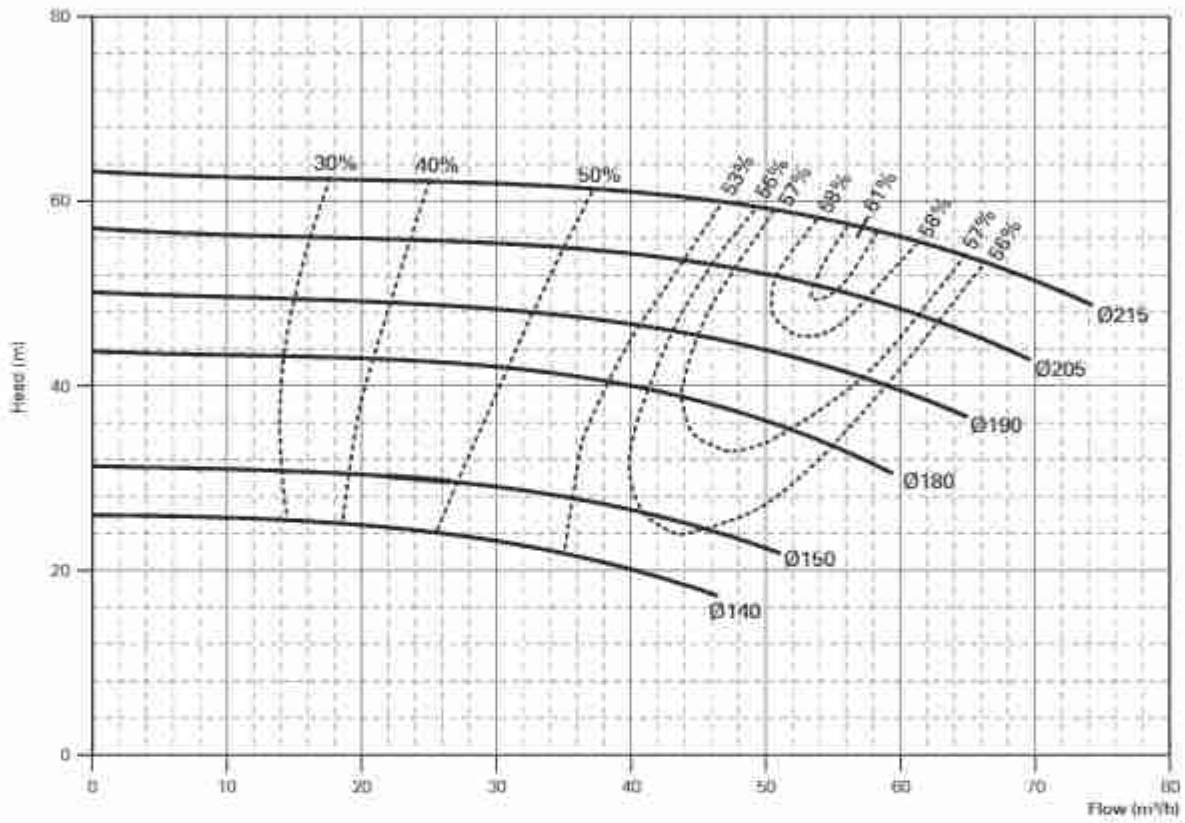
## PERFORMANCE CURVE

Model	KEC-3x1.5x8.5
Speed	2900 rpm



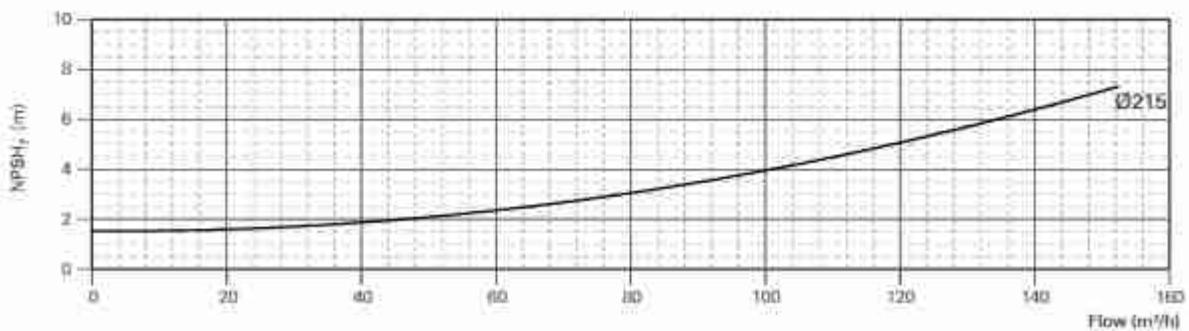
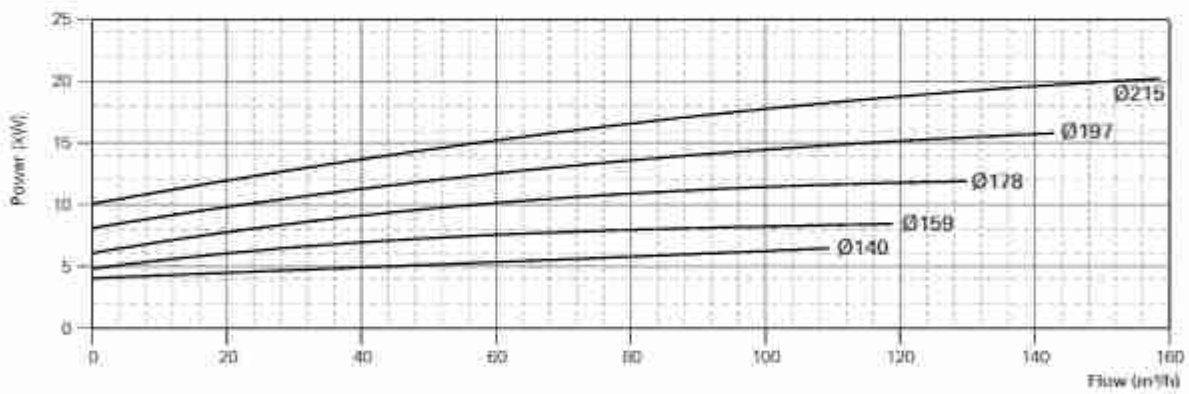
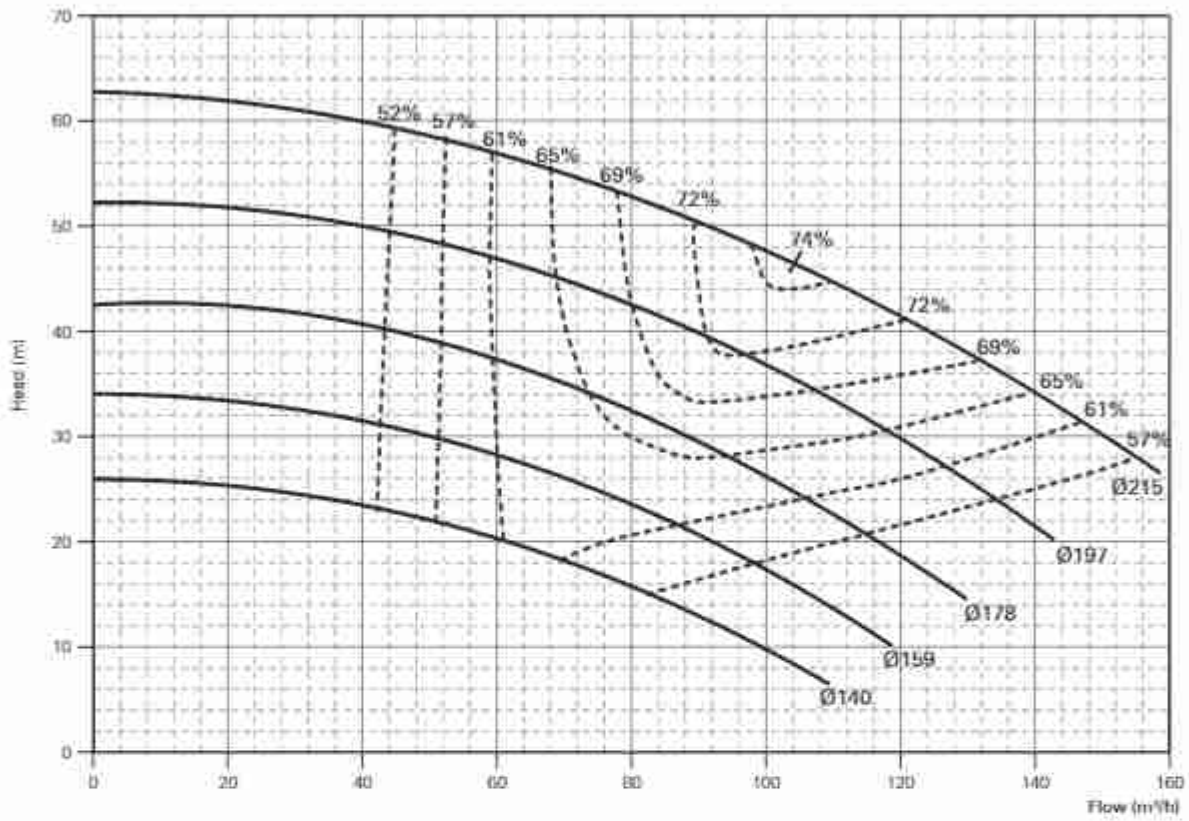
PERFORMANCE CURVE

Model	KEC-3x2x8.5
Speed	2900 rpm



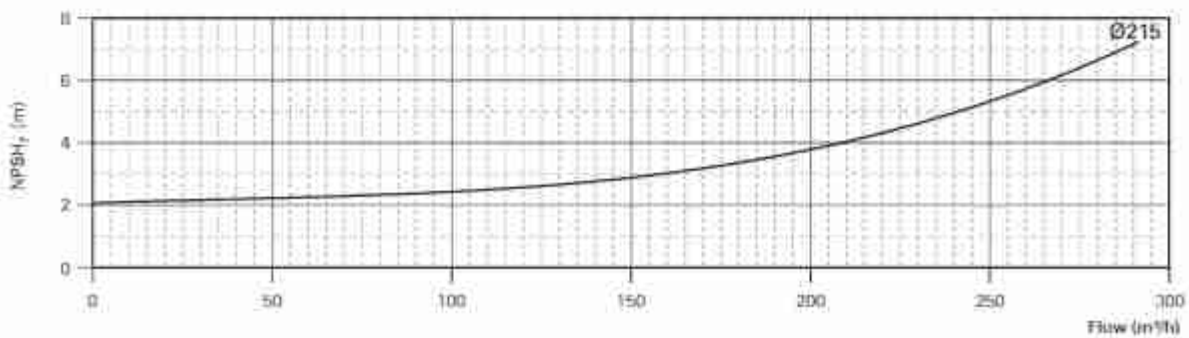
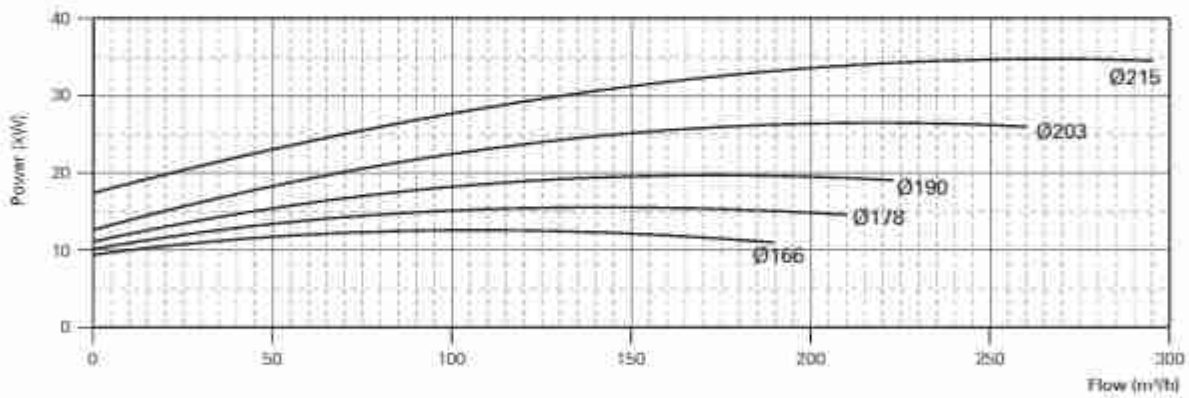
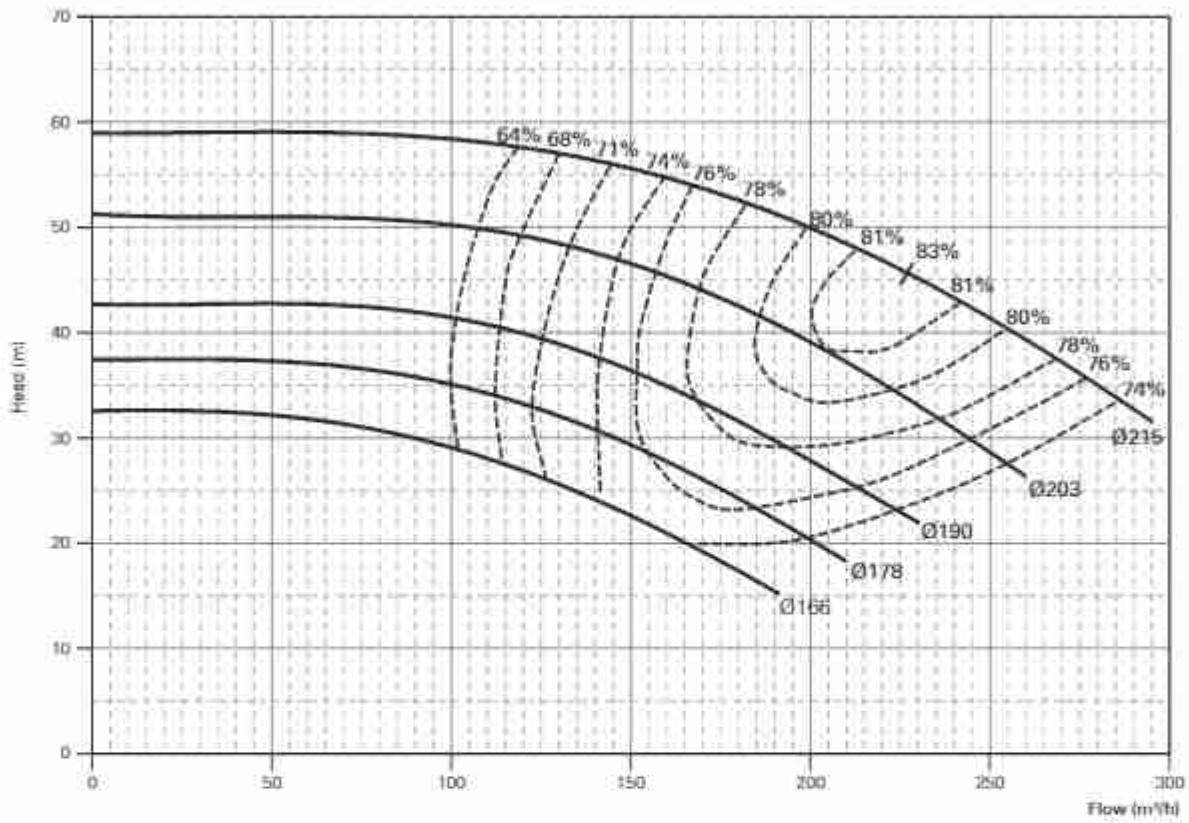
## PERFORMANCE CURVE

Model	KEC-4x3x8.5
Speed	2900 rpm



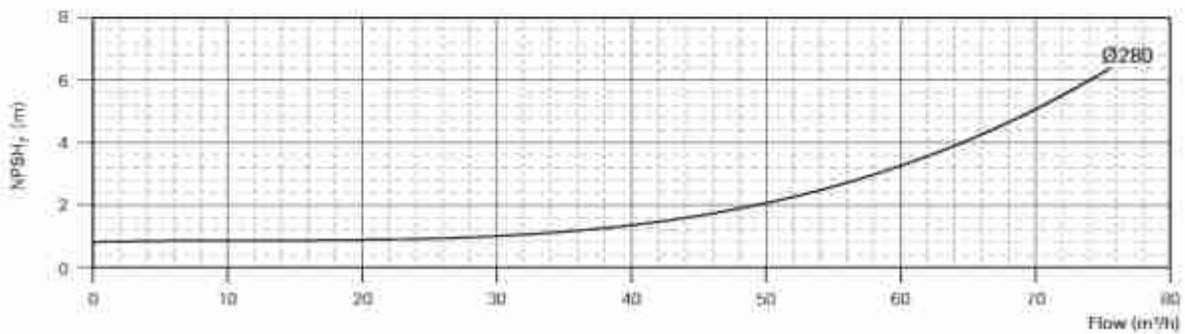
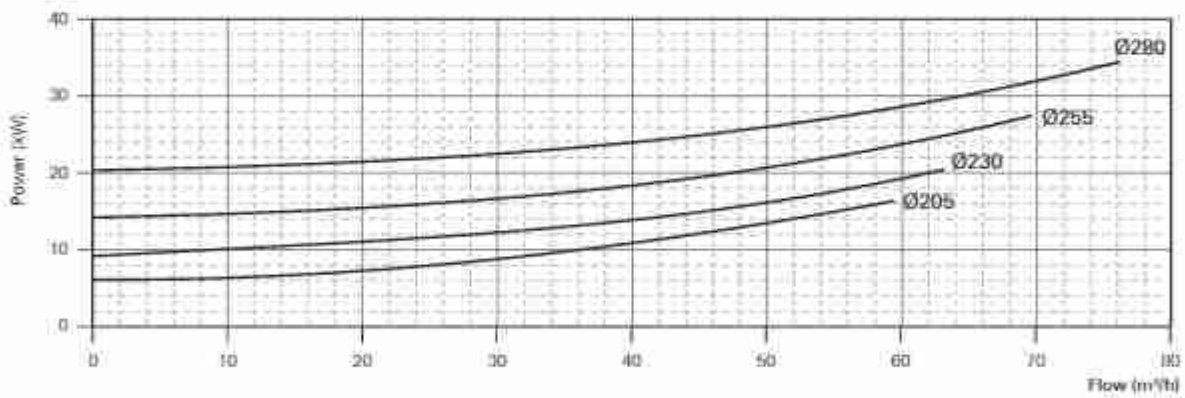
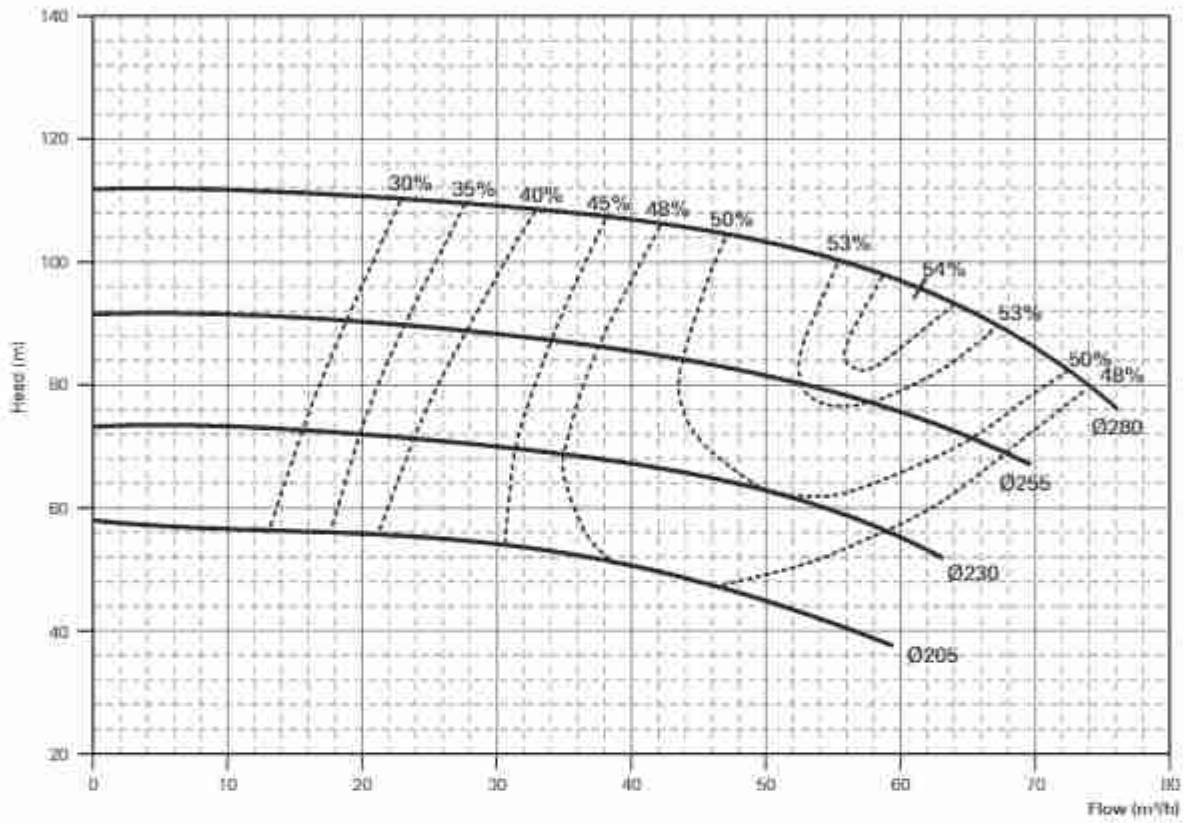
PERFORMANCE CURVE

Model	KEC-6x4x8.5
Speed	2900 rpm



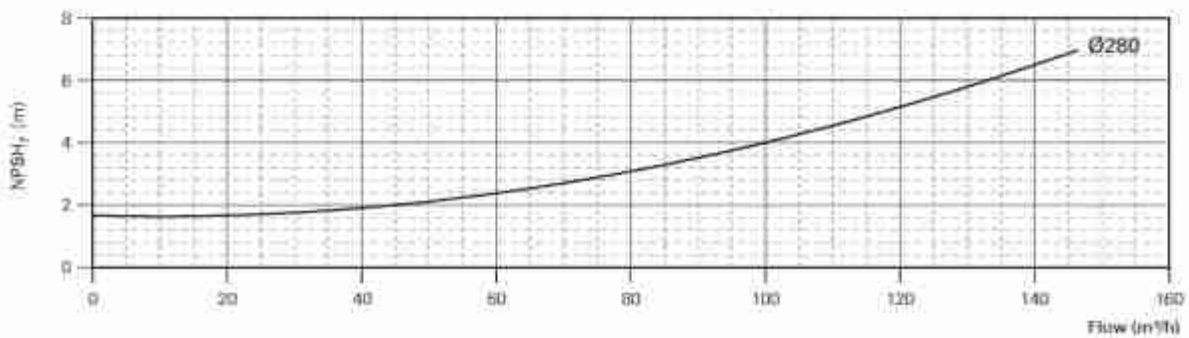
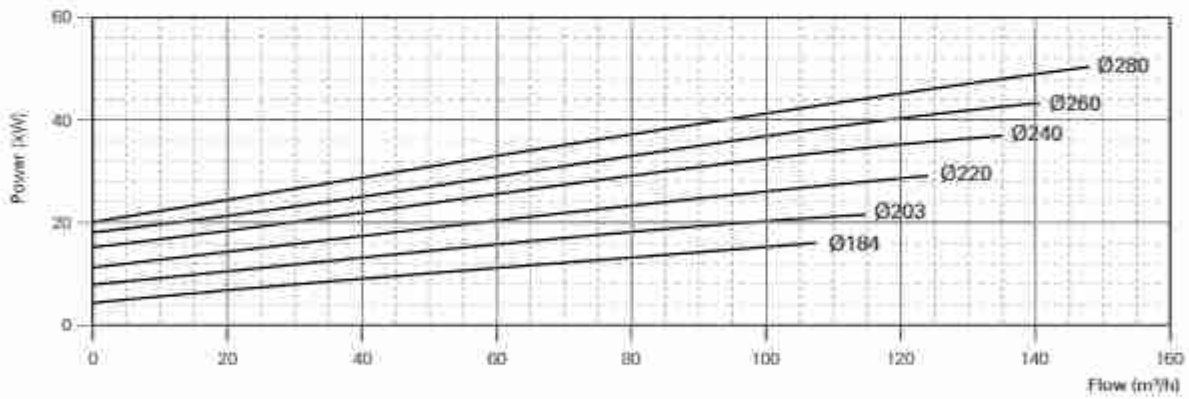
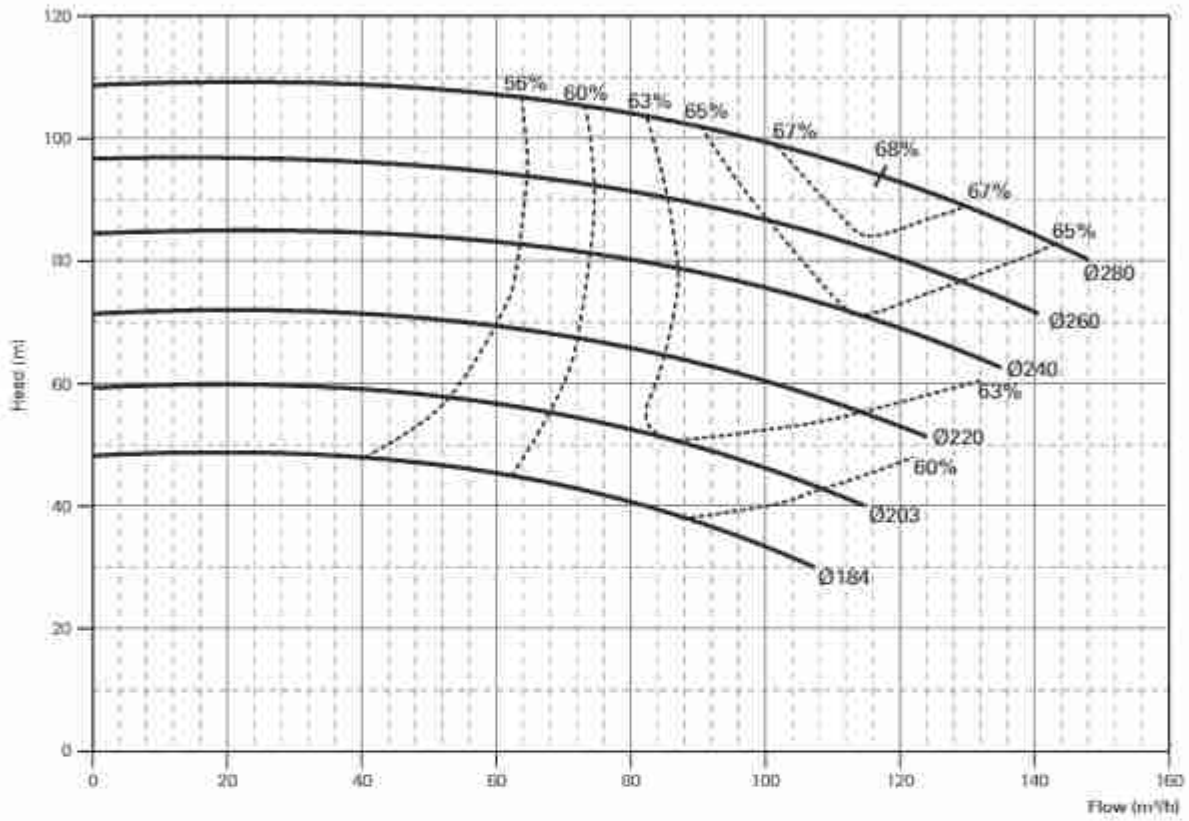
## PERFORMANCE CURVE

Model	KEC-3x1.5x11
Speed	2900 rpm



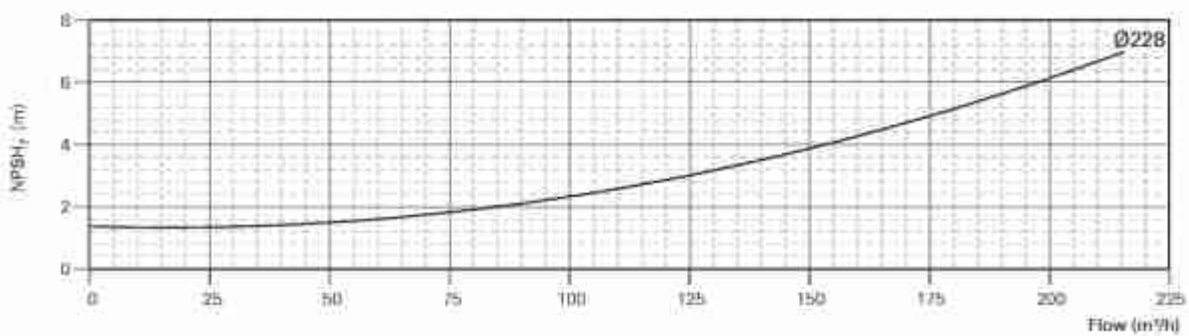
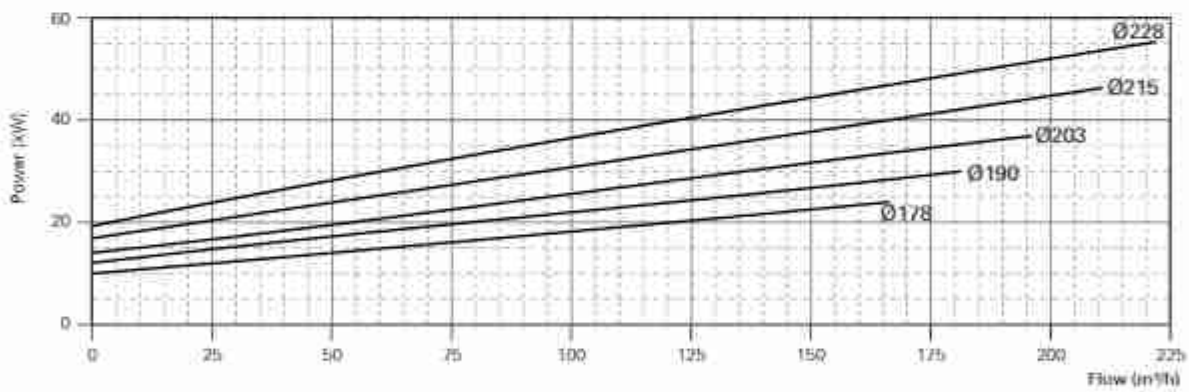
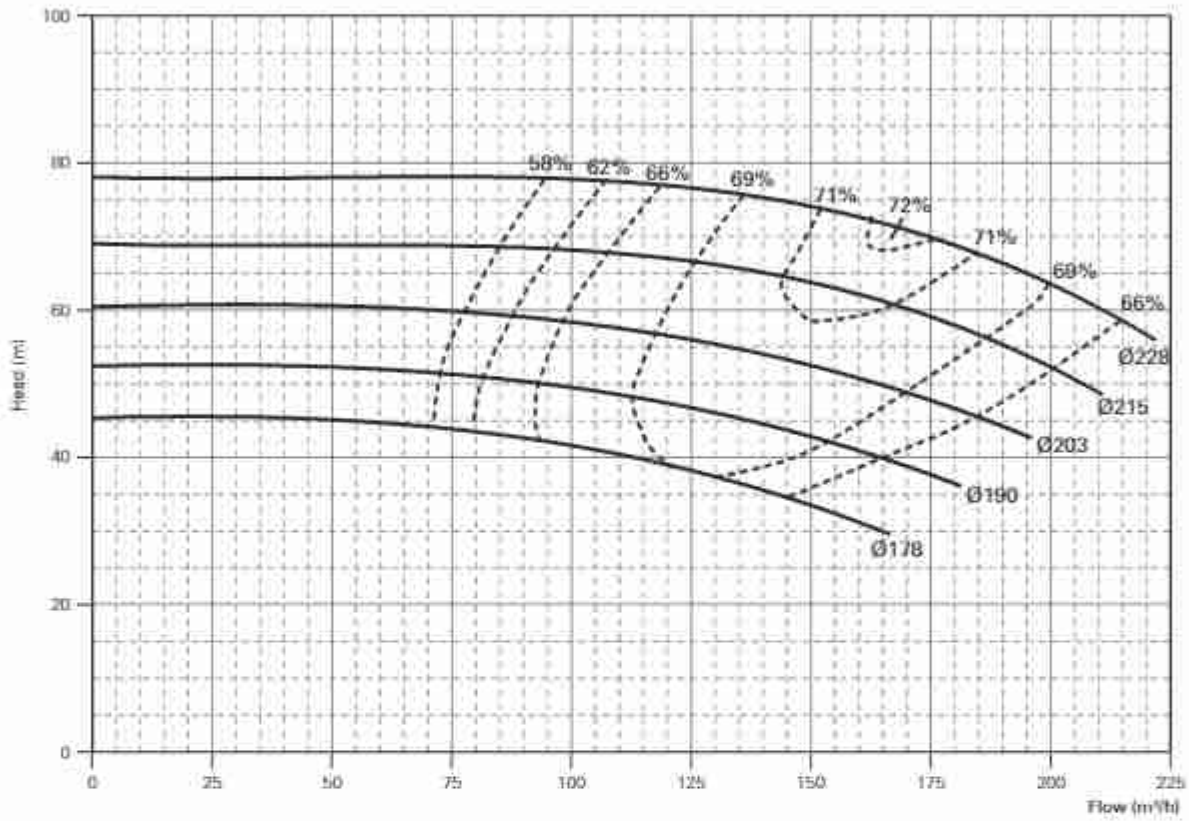
PERFORMANCE CURVE

Model	KEC-3x2x11
Speed	2900 rpm



## PERFORMANCE CURVE

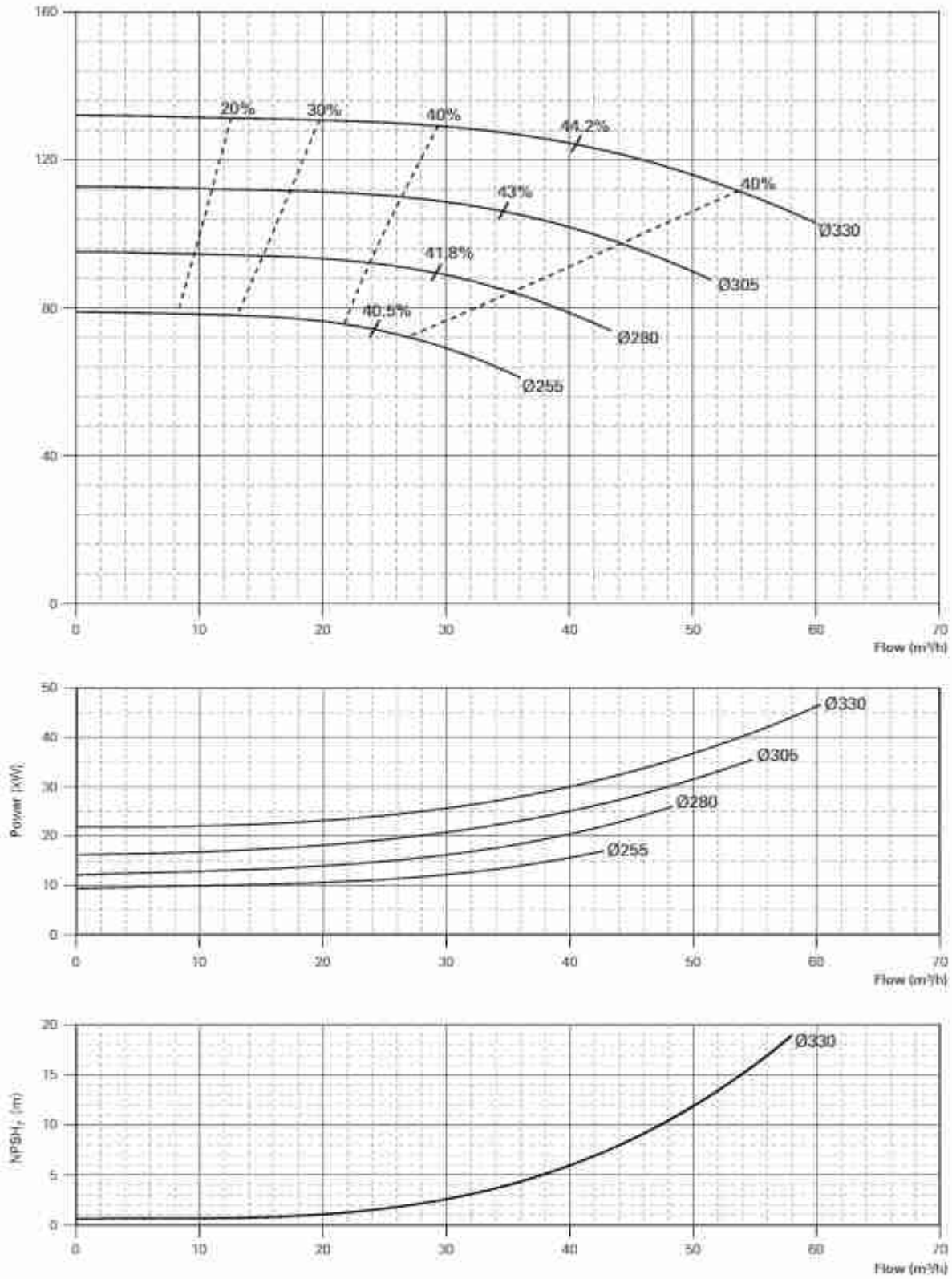
Model	KEC-4x3x11
Speed	2900 rpm





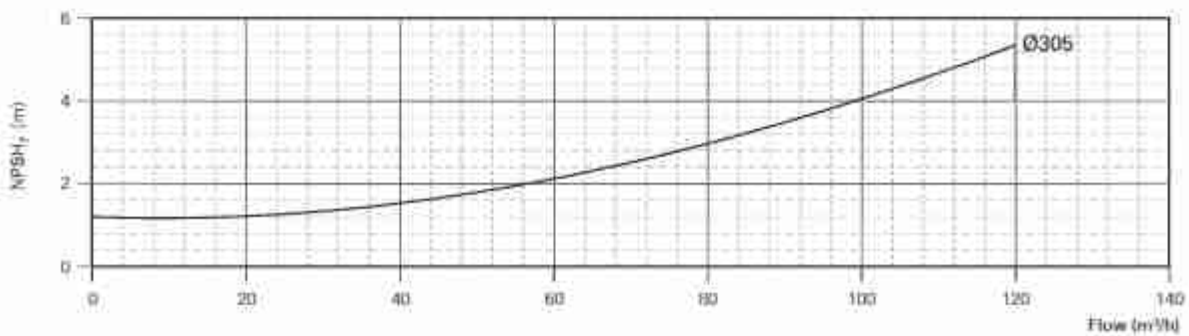
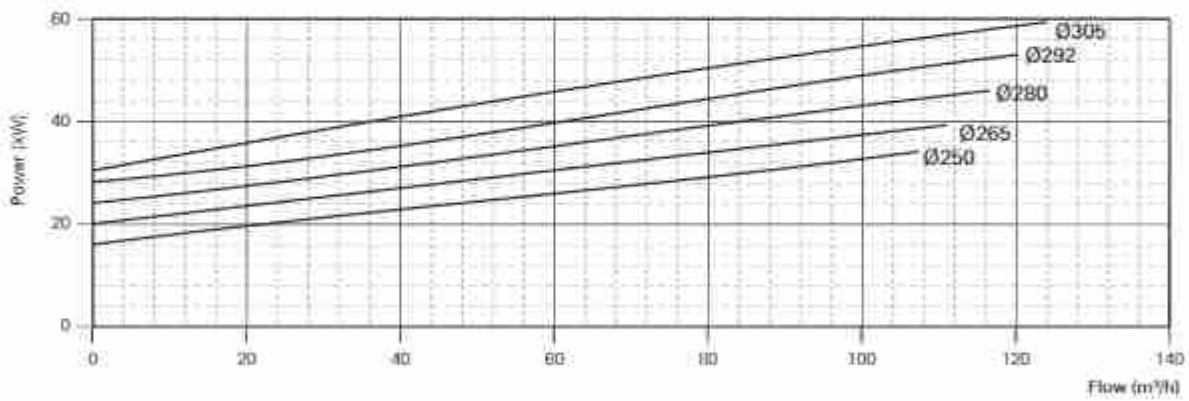
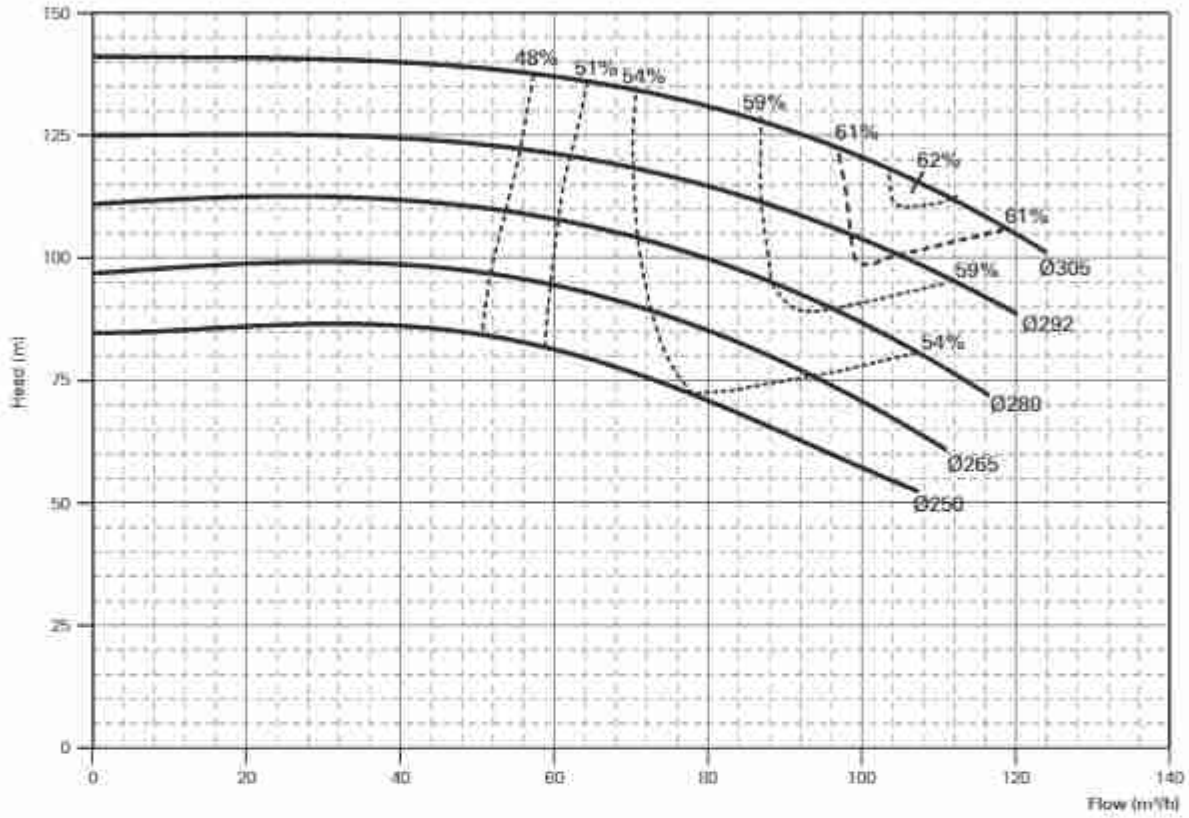
PERFORMANCE CURVE

Model	KEC-3x1.5x13
Speed	2900 rpm



## PERFORMANCE CURVE

Model	KEC-3x2x13
Speed	2900 rpm



**CHEMICAL PROCESS PUMPS - KEC LF SERIES  
(NON ANSI PUMPS)**



GENVIK KEC LF series pumps are horizontal, end suction, single stage centre line discharge design for low flow requirements. These pumps are Non ANSI specially designed to handle corrosive, abrasive or high temperature liquids etc. These pumps provide excellent performance for tough applications including pumping of acids (Sulphuric Acid, Hydrochloric Acid, Nitric Acid, Citric Acid, Acetic Acid, etc.) and all alkalis (Sodium Hydroxide, Calcium Hydroxide, etc.), brines, caustics, bleaches, sea water, high temperature liquids and a wide variety of waste liquids for a wide range of applications including chemical, petrochemical, hot oil, ethanol, food, sugar, pharmaceuticals, metal finishing, waste water/effluent treatment, desalination and aquarium/aquaculture etc.

These pumps are offered with semi-open type impellers fitted with flow inducing vane and balance hole to reduce high thrust and it is designed to give better performance even at high vapour pressure of the liquid. It can be offered with different type of material of construction as per liquid specifications. GENVIK KEC LF series are tailor made pump to ensure process reliability, high efficiency and low operating costs. At the same time, the spare parts inventory and costs are kept to a minimum by means of standardization and inter-changeability of spares among the ranges. These pumps are offered with back pull out design considering easy maintenance and repair. These pumps are also can be offered with vertical execution type.

**FEATURES**

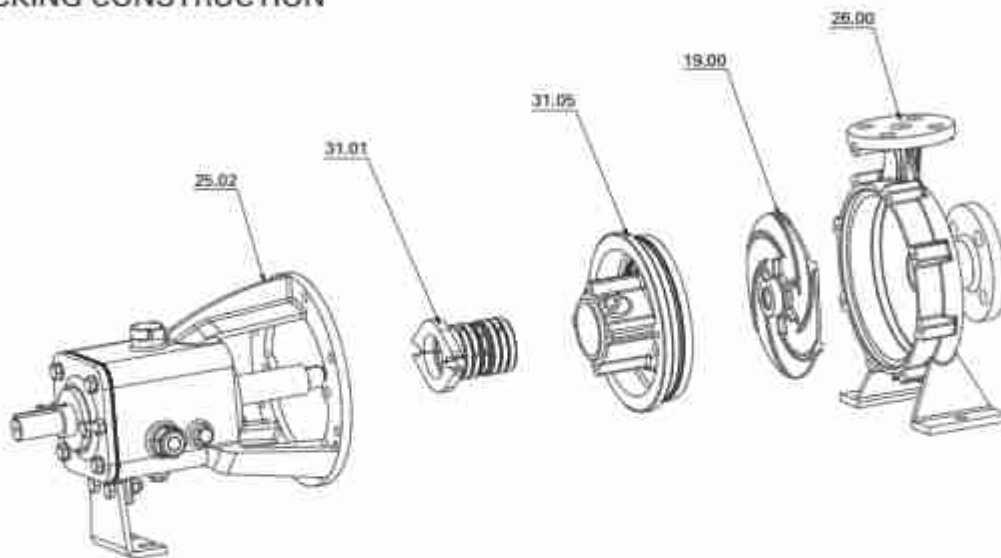
**APPLICATIONS**

Back pull out design offered with semi open impeller	Power Generation
Maximum inter-changeability of spares to reduce the inventory cost	Chemical & Petrochemical, Oil & Gas
Balance relief hole on impeller to reduce the thrust	Water, Sewage & Effluent Treatment Plants
Customized material of construction against specific requirement	Desalination Plant, Steel & Automotive Industries
Lowest life cycle cost	Paper and Pulp industries, Semiconductor Industries
Jacketed casing for hot liquids	Food processing, beverage & Dairy industries
Both mechanical seal and gland options	Sugar Industries, Pharmaceuticals
	Dyeing & Paint Industries, Mining
	Edible oil refinery and General Industries, Chemical Dosing

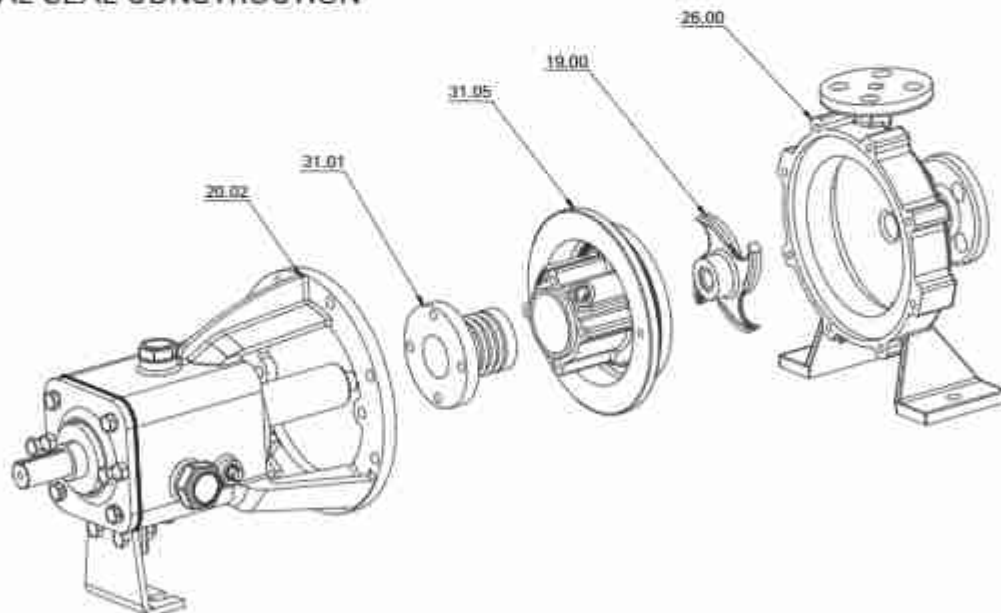
# END SUCTION CHEMICAL PUMPS

## EXPLODED VIEW

### GLAND PACKING CONSTRUCTION



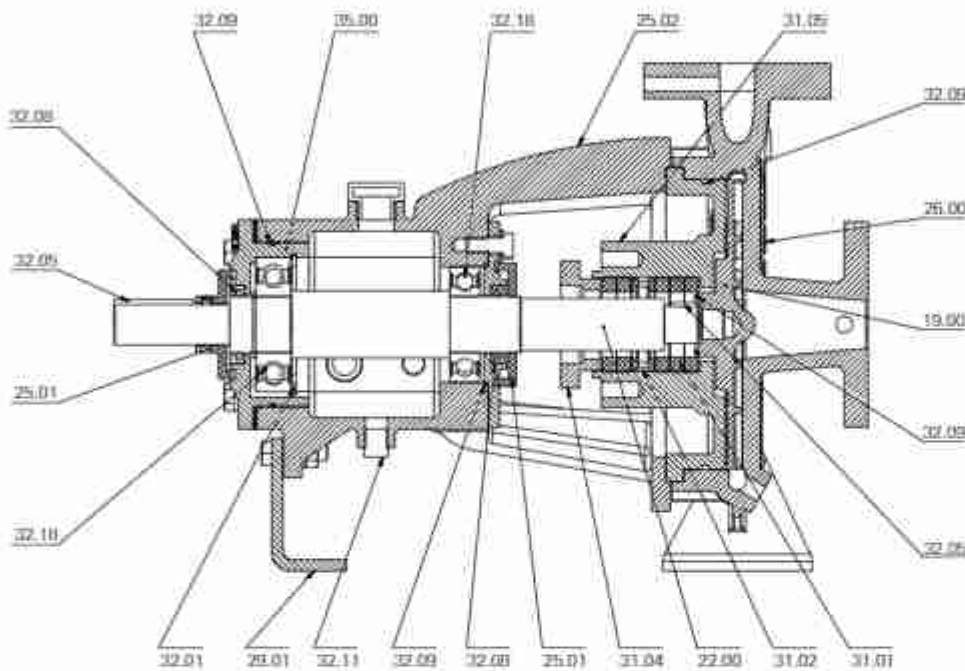
### MECHANICAL SEAL CONSTRUCTION



PART NO	PART NAME
26.00	CASING
19.00	IMPELLER
31.05	STUFFING BOX
31.01	PACKING / MECHANICAL SEAL
25.02	CONNECTING FRAME
20.02	BEARING FRAME

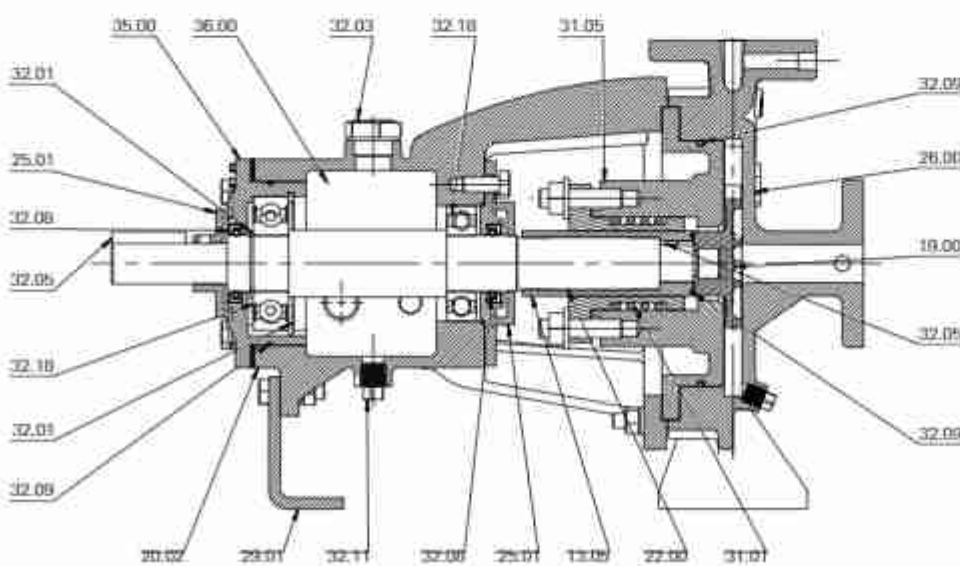
CROSS SECTIONAL DRAWING

GLAND PACKING CONSTRUCTION



















Part No	Part Name
32.09	O - RING
26.00	CASING
19.00	IMPELLER
32.05	KEY
31.01	PACKING / MECHANICAL SEAL
31.02	LANTERN RING
22.00	PUMP SHAFT
31.01	GLAND
13.05	SLEEVE
25.01	DEFLECTOR
32.08	OIL SEAL
29.01	FRAME SUPPORT
32.11	PLUG
20.02	BEARING FRAME
32.01	CIRCLIP
32.18	BEARING
35.00	BEARING HOUSING
25.02	CONNECTING FRAME
31.05	STUFFING BOX
32.03	OIL BREATHER
36.00	OIL CHAMBER

MECHANICAL SEAL CONSTRUCTION



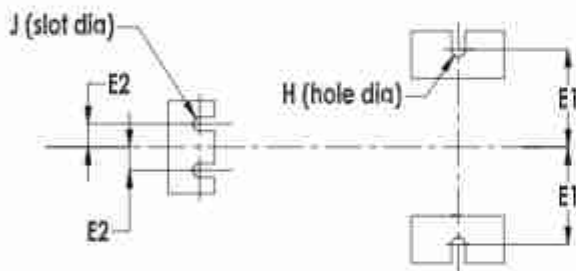
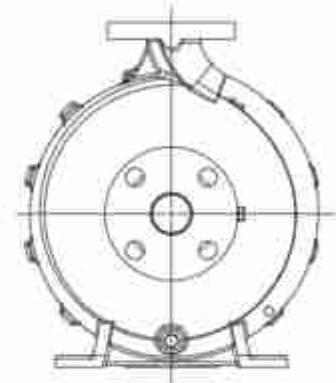
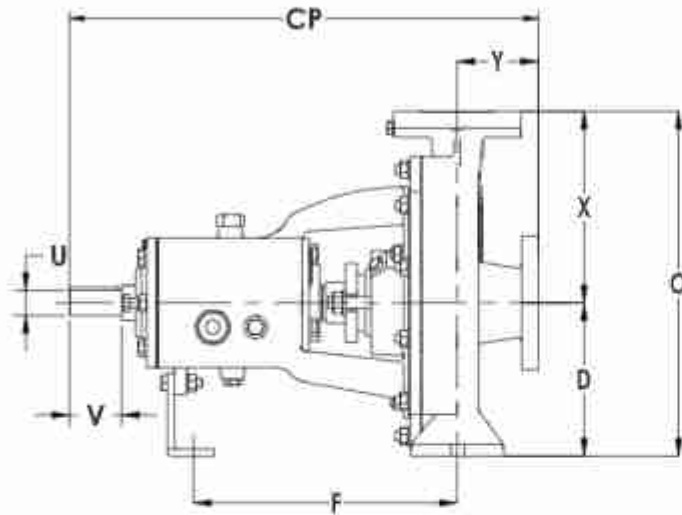
## INTERCHANGEABILITY CHART

IL SERIES					
PUMP NAME	1 X 0.75 X 6	1.25 X 1 X 6	1.5 X 1.25 X 6	1 X 0.75 X 8	1.25 X 1 X 8
	25 X 20 X 150	32 X 25 X 150	40 X 32 X 150	25 X 20 X 200	32 X 25 X 200
CASING					
IMPELLER					
STUFFING BOX					
BEARING FRAME					
BEARING FRAME ASSEMBLY					

## DETAILS OF STANDARD COMPONENTS

SHAFT AND BEARING DATA	FRAME
	Ø
SHAFT DIAMETER (mm)	
At Coupling	Ø 22.21
At 'NDE' Bearings	Ø 30
At 'DE' Bearings	Ø 30
Between bearings	Ø 51
Under Sleeve	Ø 27.07
Stuffing Box Details:	
Shaft sleeve OD	Ø 35
Stuffing Box Bore Diameter	Ø 51
Stuffing Box Depth	57
SHAFT LENGTHS (mm)	
Impeller end of shaft to 'NDE' Bearing	158.5
Between bearings	85
'DE' Bearing To Coupling end	95
BEARINGS	
'NDE'	6206
'DE'	6306
KEYWAY AT COUPLING (mm)	
Width	4.76
Depth	2.38
Length	40
SHAFT THREAD AT IMPELLER	M16X2 RH

**INTERCHANGEABILITY CHART**

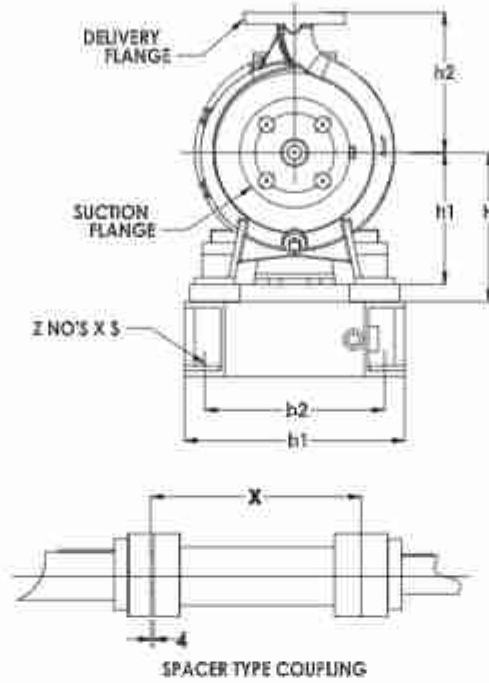


Pump Series	Pump Size (inch)	General Dimensions Table (mm)													
		CP	D	E1	E2	F	X	Y	O	V	U (dia)	H	J	M	WEIGHT (KG)
KEC-LF	1 x 0.75 x 6	404	132	84	20	223	140	70	272	45	22	12	12	112	22
KEC-LF	1.25 x 1 x 6	404	132	84	20	223	140	70	272	45	22	12	12	112	23
KEC-LF	1.5 x 1.25 x 6	404	132	84	20	223	140	70	272	45	22	12	12	112	24
KEC-LF	1 x 0.75 x 8	404	132	84	20	223	165	70	297	45	22	12	12	112	28
KEC-LF	1.25 x 1 x 8	404	132	84	20	223	165	70	297	45	22	12	12	112	30





MOUNTING DIMENSION - PUMP



Hole Diameter	#	b1	b2	t	a+t	Channel height	C1 Height	H	h1	h2	U	V	L1	L2	L3	L4	Z No's	S	X
15.9	70	220	104	304	404	75	224	207	132	140	94.25	98.85	700	580			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	94.25	98.85	720	600			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	94.25	98.85	750	630			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	94.25	98.85	780	660			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	94.25	98.85	790	670			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	94.25	98.85	820	700			4	14	100
15.9	70	260	224	304	404	75	224	207	132	140	94.25	98.85	830	710			4	14	100
15.9	70	260	224	304	404	75	224	207	132	140	94.25	98.85	900	780			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	96.29	102.3	700	580			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	96.29	102.3	720	600			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	96.29	102.3	750	630			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	96.29	102.3	780	660			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	96.29	102.3	790	670			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	96.29	102.3	820	700			4	14	100
15.9	70	260	224	304	404	75	224	207	132	140	96.29	102.3	830	710			4	14	100
15.9	70	260	224	304	404	75	224	207	132	140	96.29	102.3	900	780			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	98.68	106.5	700	580			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	98.68	106.5	720	600			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	98.68	106.5	750	630			4	14	100
15.9	70	220	104	304	404	75	224	207	132	140	98.68	106.5	820	700			4	14	100
15.9	70	260	224	304	404	75	224	207	132	140	98.68	106.5	830	710			4	14	100
15.9	70	260	224	304	404	75	224	207	132	140	98.68	106.5	900	780			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	116.9	119.7	700	580			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	116.9	119.7	720	600			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	116.9	119.7	750	630			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	116.9	119.7	780	660			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	116.9	119.7	790	670			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	116.9	119.7	820	700			4	14	100
15.9	70	260	224	304	404	75	224	207	132	185	116.9	119.7	830	710			4	14	100
15.9	70	260	224	304	404	75	224	207	132	185	116.9	119.7	900	780			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	115.9	120.7	700	600			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	115.9	120.7	720	620			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	115.9	120.7	750	640			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	115.9	120.7	780	660			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	115.9	120.7	790	670			4	14	100
15.9	70	220	104	304	404	75	224	207	132	185	115.9	120.7	820	700			4	14	100
15.9	70	260	224	304	404	75	224	207	132	185	115.9	120.7	830	710			4	14	100
15.9	70	260	224	304	404	75	224	207	132	185	115.9	120.7	900	780			4	14	100

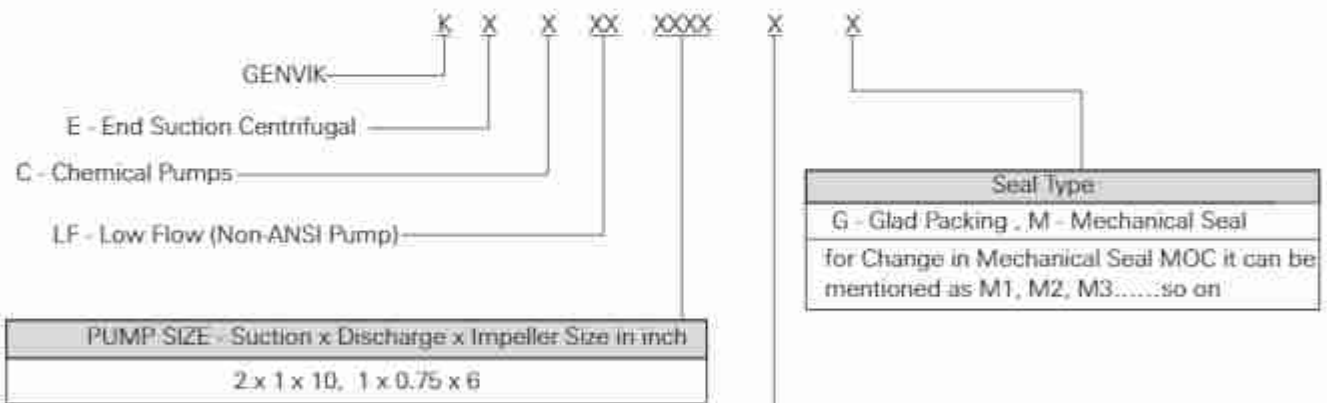
# END SUCTION CHEMICAL PUMPS

## OVERALL RANGE & PERFORMANCE DETAILS

S. No.	Pump Size (mm) - Suction x Discharge x Impeller Size in inch	Suction Nozzle Dia in mm	Discharge Nozzle Dia in mm	Pump Weight in kg	Maximum Power in kW	Speed Min / Max in rpm	Maximum Working Pressure in Bar	Maximum Flow Rate in m <sup>3</sup> /h	Maximum Total Head in m	Maximum Solid Size / Dia in mm
1	1 x 0.75 x 6	25	20	22	7.5kW	2900	6	12.4	35.5	4.5
2	1.25 x 1 x 6	30	25	23	7.5kW	2900	5	16.1	37.1	6.5
3	1.5 x 1.25 x 6	40	30	24	7.5kW	2900	5	21.3	37.1	8
4	1 x 0.75 x 8	25	20	28	7.5kW	2900	10	10.2	68	8
5	1.25 x 1 x 8	30	25	30	7.5kW	2900	10	20.8	68	8

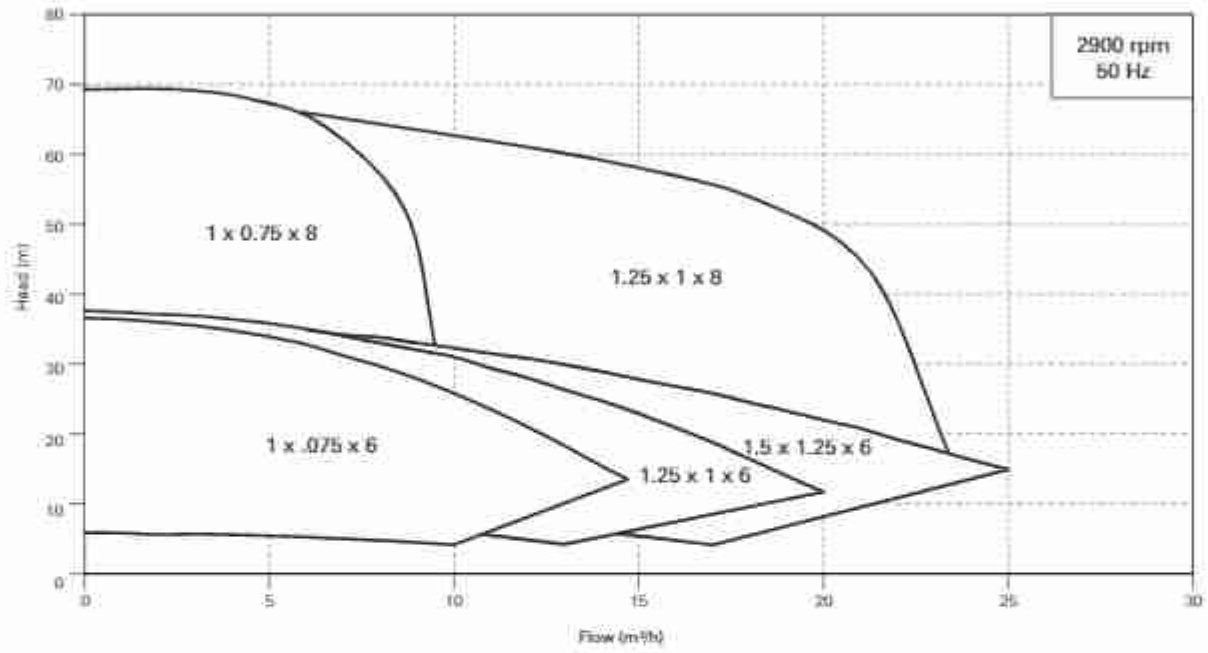
\*1450 rpm on request

## MODEL IDENTIFICATION



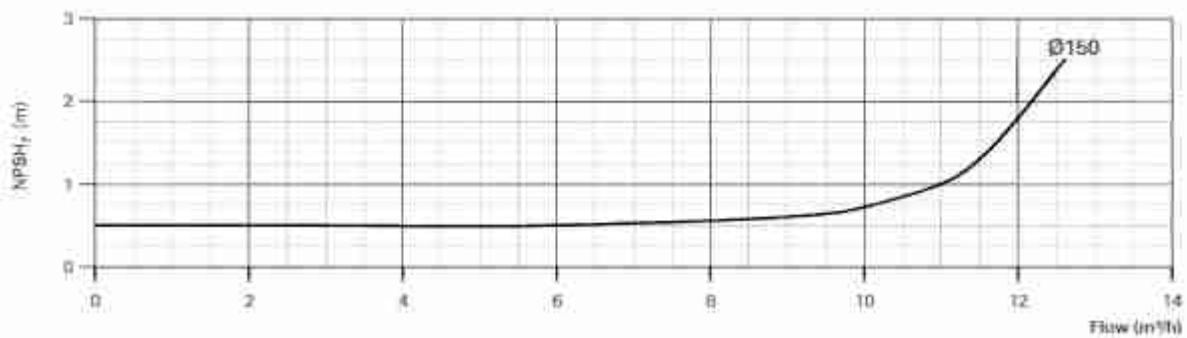
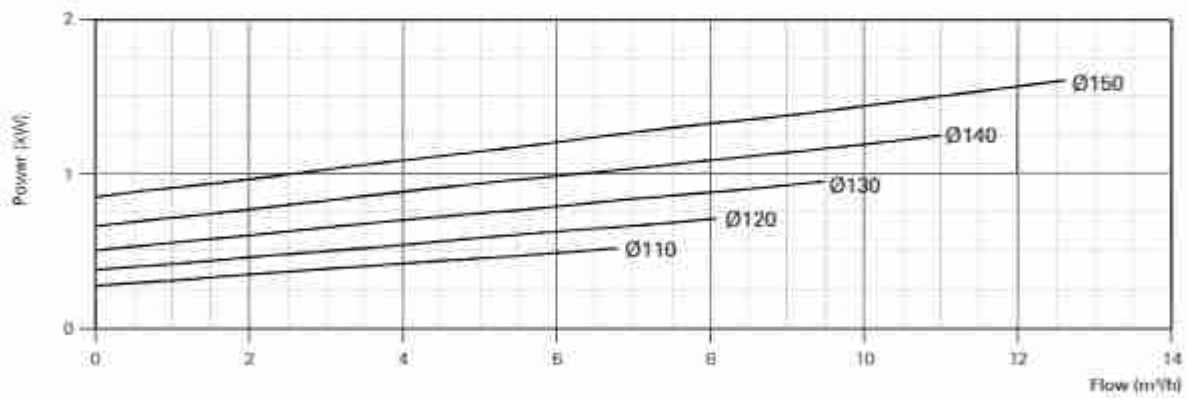
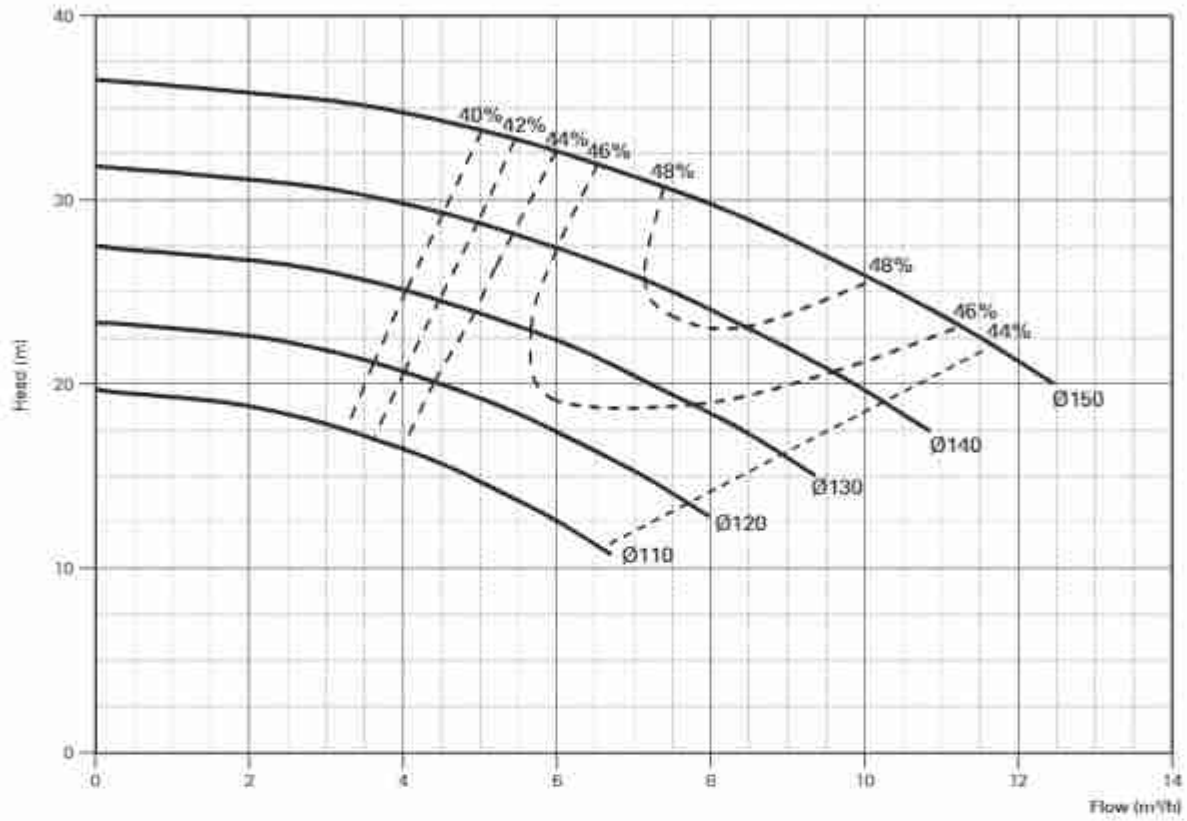
Description	Material of Construction							
	N	M	S	T	L	W	C	F
Casing	SS 316	SS 316	SS 304	SS 304	SS 316 L	CS (WCB)	CI	CI
Impeller	SS 316	SS 316	SS 304	SS 304	SS 316 L	CS (WCB)	CF8	CF8M
Stuffing box & Gland	SS 316	SS 316	SS 304	SS 304	SS 316 L	CS (WCB)	CI	CI
Shaft	SS 316	EN 8	SS 316	EN 8	SS 316 L	EN 8	EN 8	EN 8
shaft sleeve	SS 316	SS 316	SS 316	SS 316	SS 316	SS 316	SS 410	SS 410
Bearing Housing & Connecting Frame	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Type of material of construction	N	M	S	T	L	W	C	F

GROUP PERFORMANCE CURVE



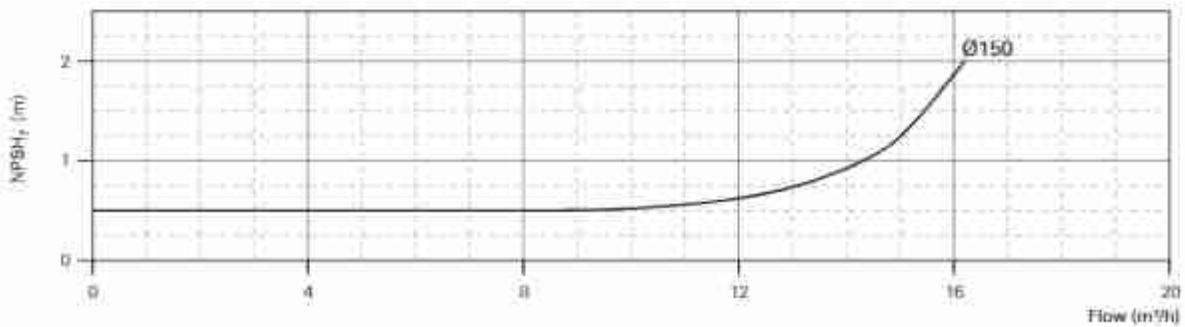
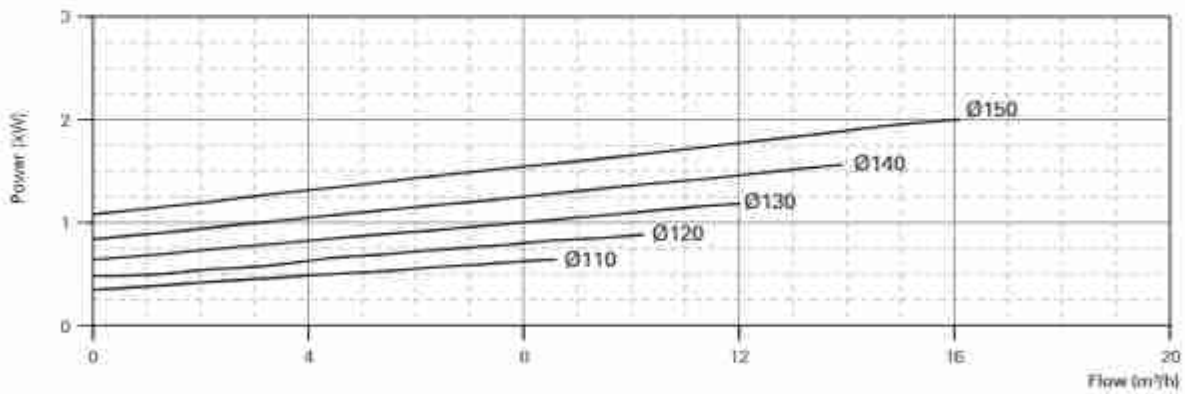
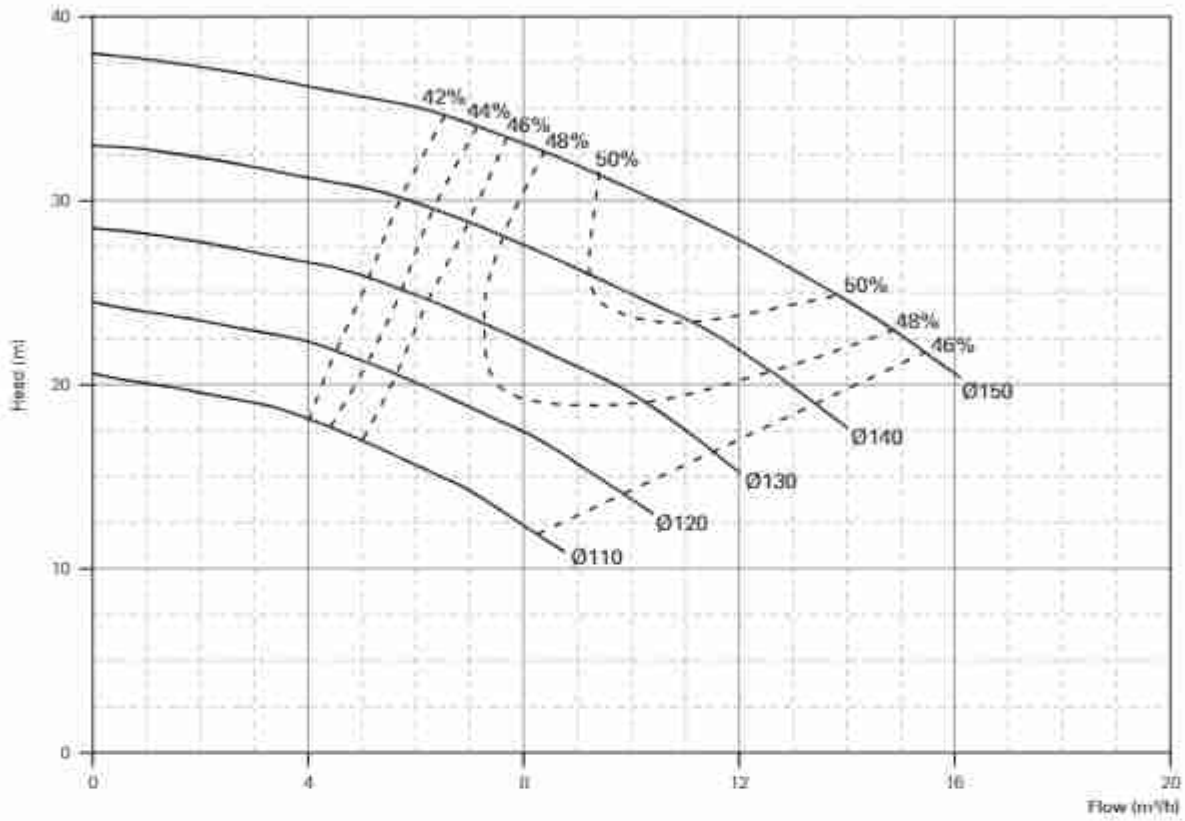
## PERFORMANCE CURVE

Model	KEC LF-1x0.75x6
Speed	2900 rpm



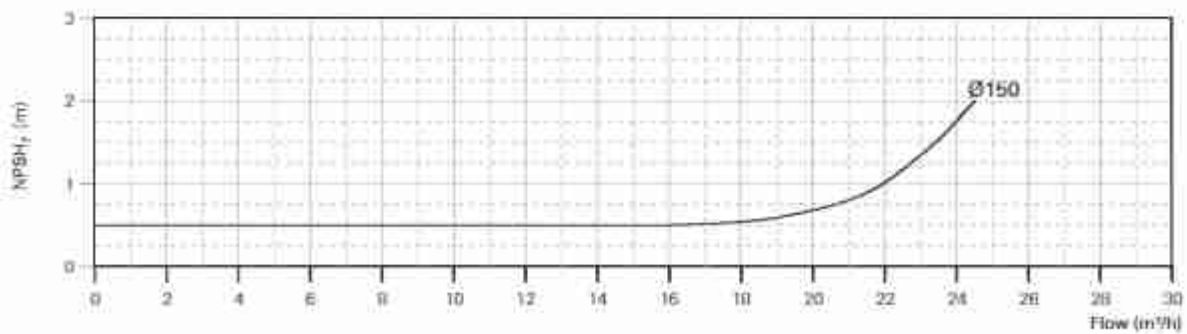
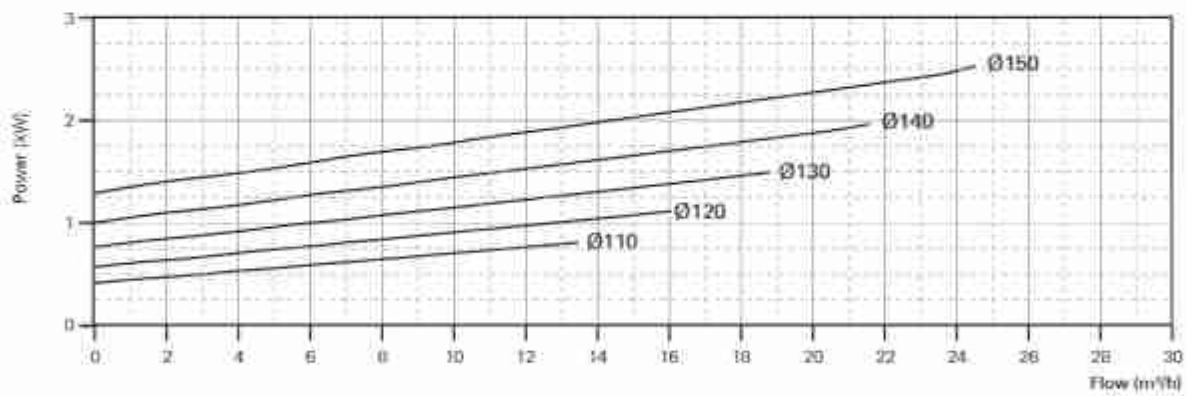
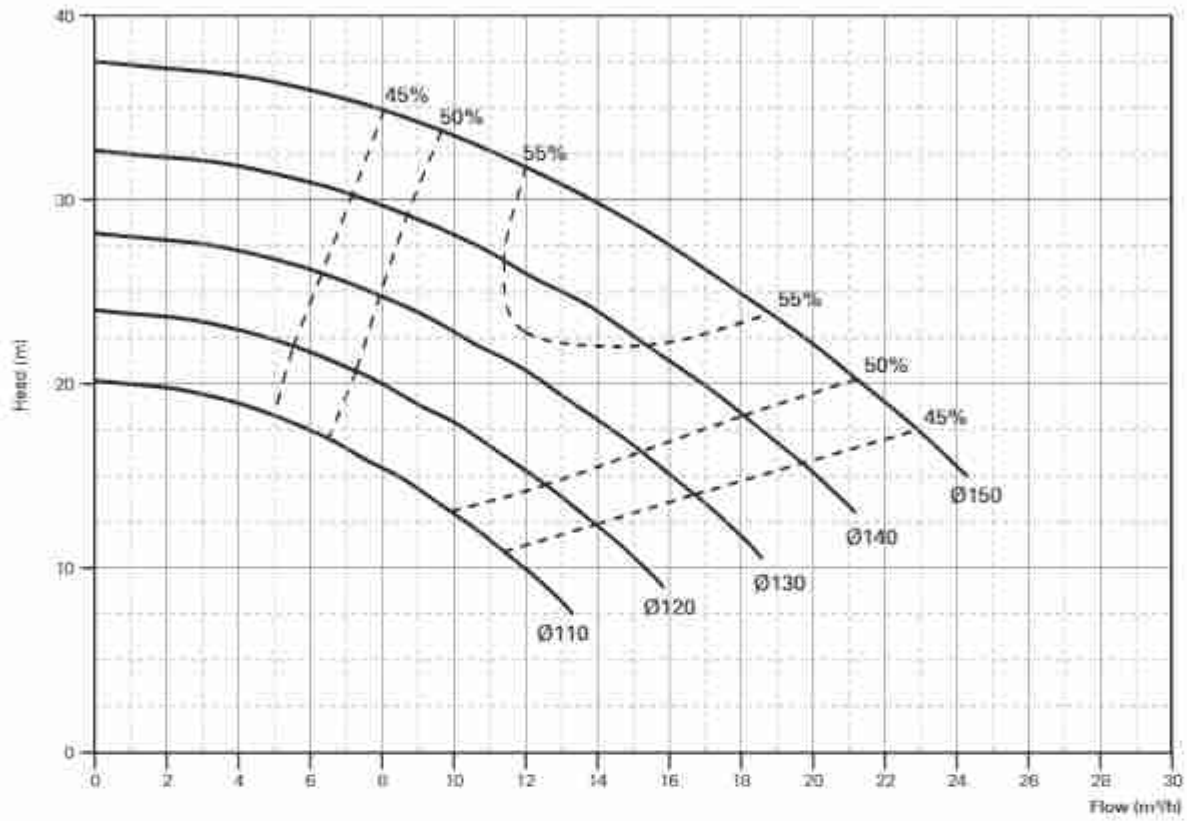
PERFORMANCE CURVE

Model	KEC LF-1.25x1x6
Speed	2900 rpm



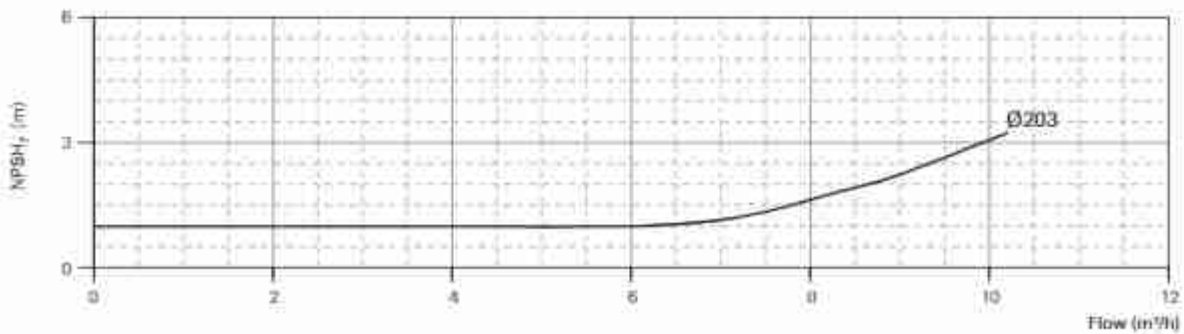
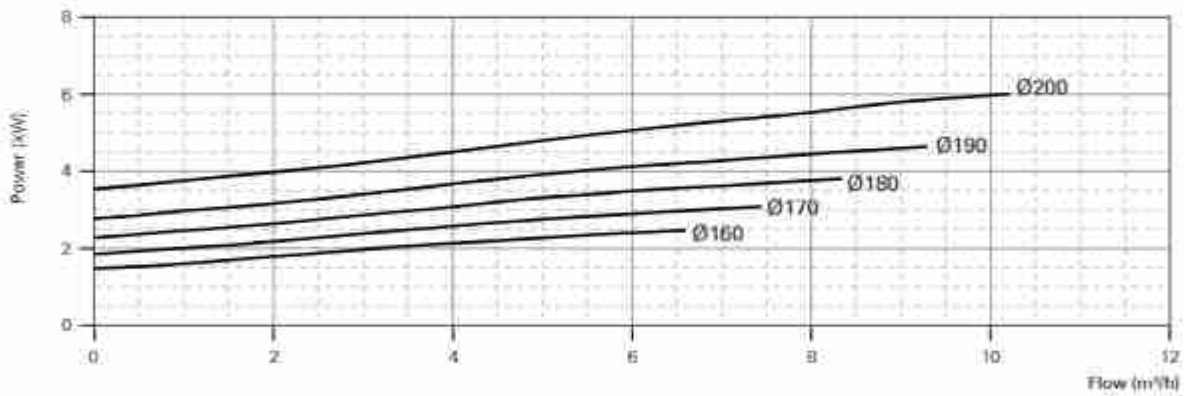
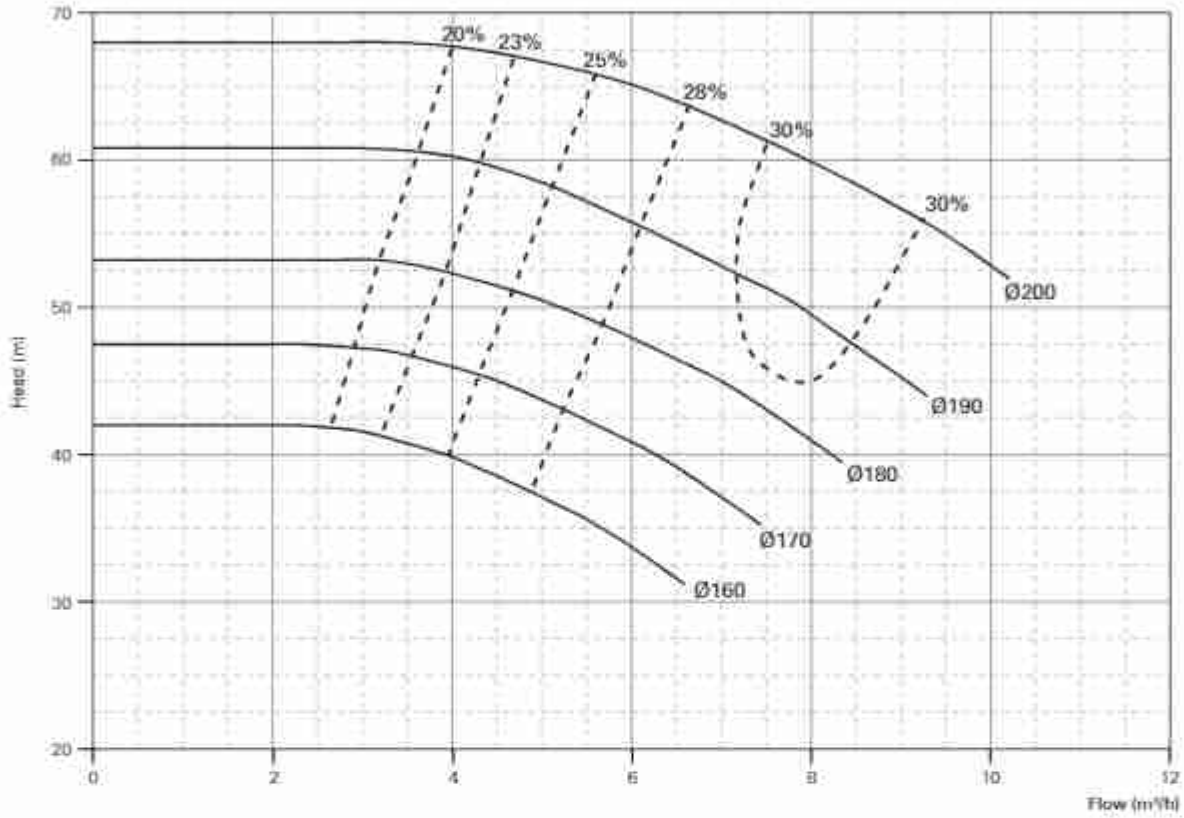
## PERFORMANCE CURVE

Model	KEC LF-1.5x1.25x6
Speed	2900 rpm



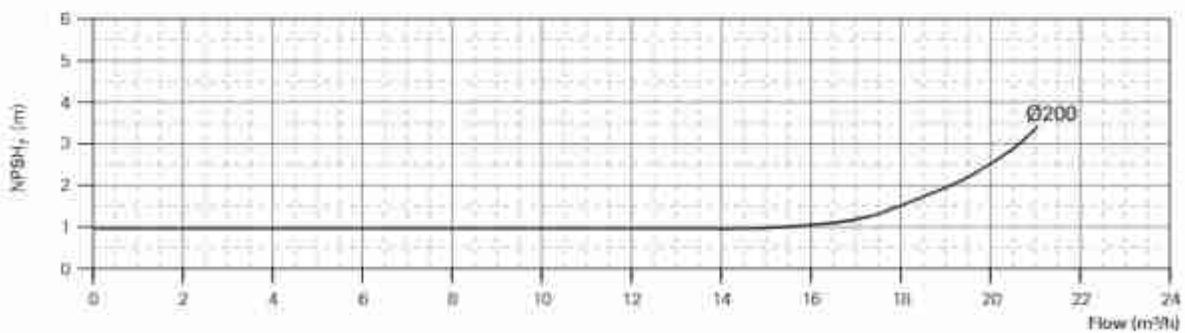
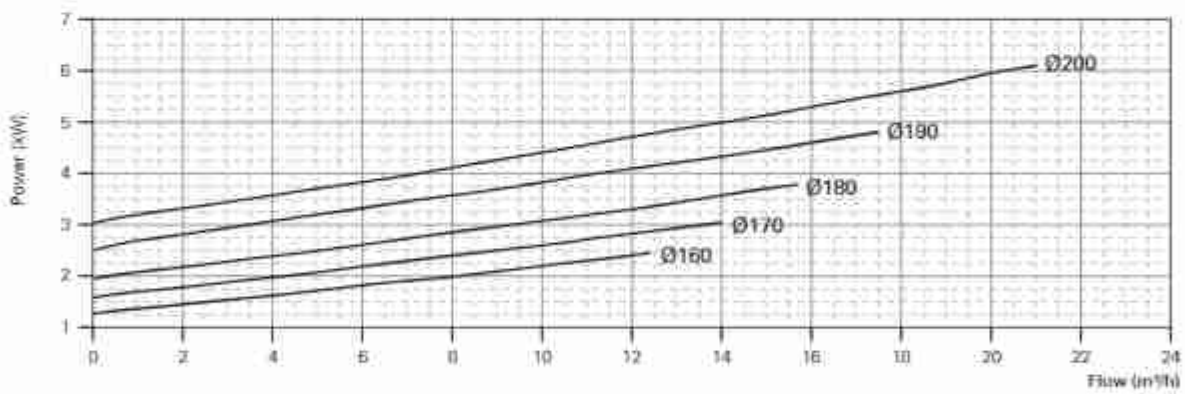
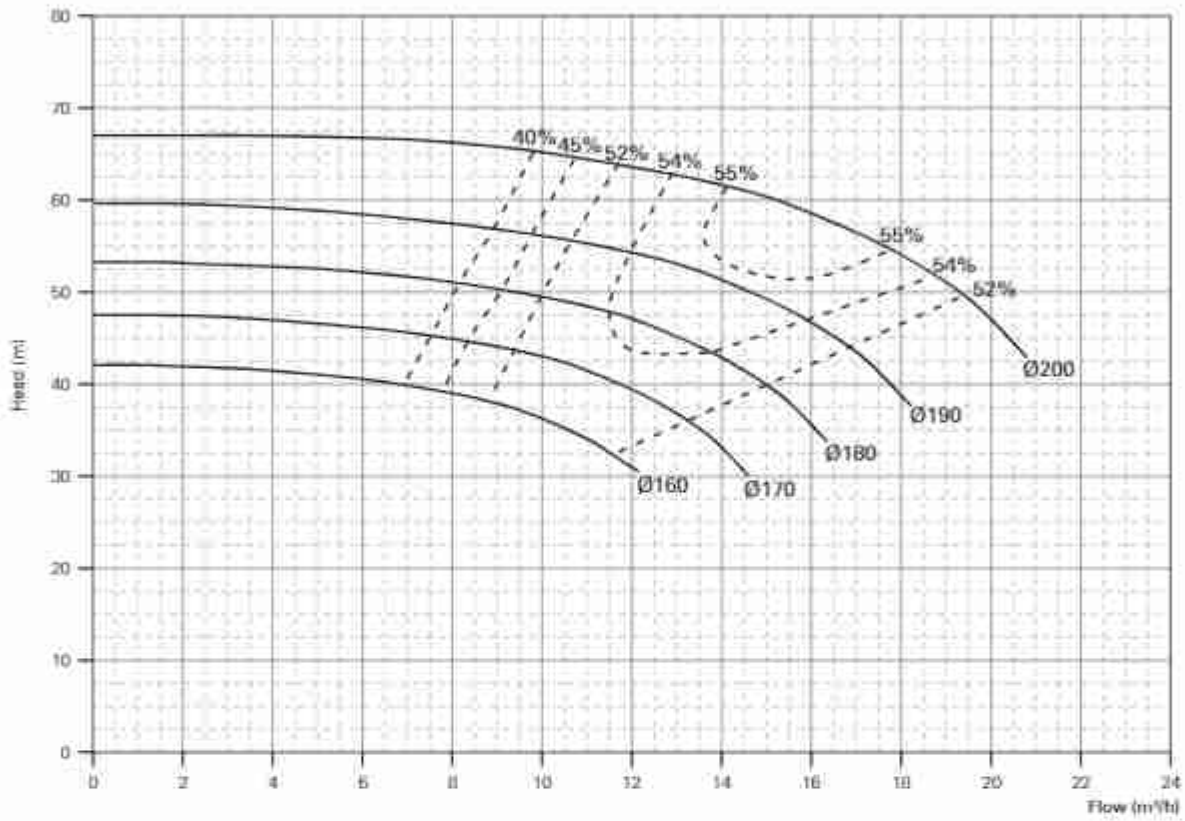
PERFORMANCE CURVE

Model	KEC LF-1x0.75x8
Speed	2900 rpm



## PERFORMANCE CURVE

Model	KEC LF-1.25x1x8
Speed	2900 rpm





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