

**CENTRIFUGAL MONOBLOCK
PUMPS (DIN 24255* / EN 733*)
FCT SERIES - 50Hz**

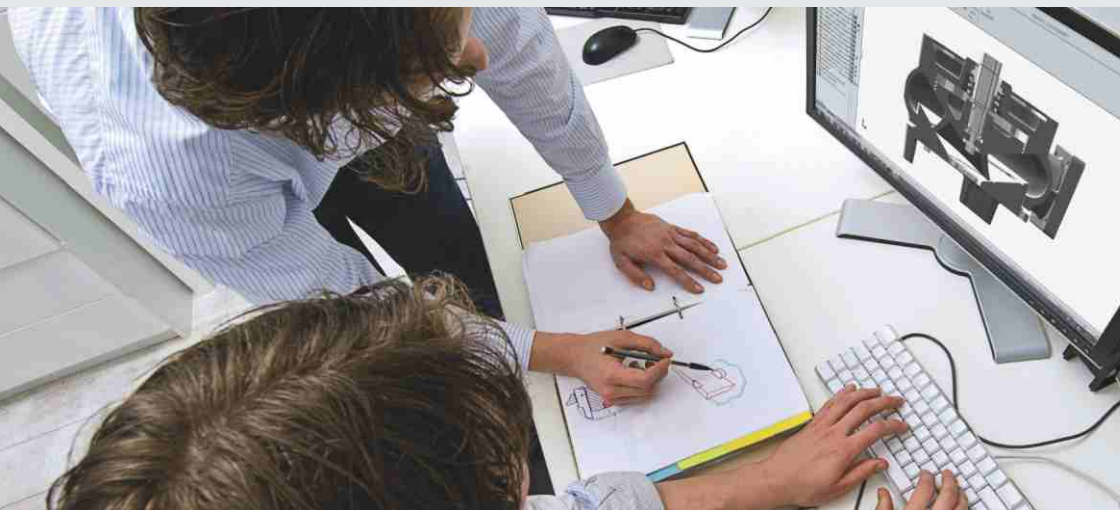
Zirantec



www.zirantec.com

An ISO 9001 Company

CE



ZIRANTEC products are designed & manufactured by well qualified and experienced Engineers in state of the art manufacturing facilities

CERTIFICATION



ZIRANTEC Pumps & Motors are from the house of **Fabbrica Italiana Pompe Sommersibili S.r.l.** a four decades old Italian company of high repute, offering complete waste water solutions around the world. Its current product portfolio includes world class Waste Water Pumps of various types, Multistage Centrifugal Pressure Booster Pumps, Borehole Submersible Pumps & Motors, End Suction Centrifugal Pumps, Industrial Pumps for various applications.

Founded as early as 1978 in Rozzano, South of Milan, Italy by Mr.Orfeo Agostini, the company has witnessed steady growth and market expansion continuously ever since. In these four decades of existence, the company has carved a niche for itself in the waste water and sewage pump market in Italy and other countries. Its products are employed in Municipal, Domestic and Industrial applications. The Company is well known for the unique and robust designs of its products and their workmanship. Due to its superior quality ZIRANTEC products are also exported to many European, African and Asian countries.

ZIRANTEC's products are designed and manufactured to meet high quality Standards and they are 'CE' certified. The Facility is accredited with ISO 9001 Certification.

Over the years, the company has metamorphosed and ventured into manufacturing of high quality water pumps, for domestic, agricultural and industrial applications. In the due process, Fabbrica Italiana Pompe Sommersibili S.r.l. has shed its image of an exclusive sewage and waste water pumps manufacturer to a complete pump production company with an ability to manufacture diverse kinds of pumps for different applications.

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CENTRIFUGAL PUMPS

Description

Zirantec FCT- Series pumps are horizontal single stage centrifugal monoblock type supplied with radial flow impeller for higher head and flow requirements. These pumps are rigid in construction and compact design. Centrifugal pumps are powered by a totally enclosed fan cooled premium efficiency motor. Monoblock construction eliminates loss of energy while transmitting the energy from the motor to pump. These pumps are available in three phase power supply. The back pull out design facilitates ease of maintenance.

Features

- Wide hydraulic ranges
- Galvanized counter flange with bolts, nuts and gaskets
- Back pull out design
- Offered with premium efficiency motor
- Mounting and duties as per DIN 24255 / EN 733*

Applications

- Agriculture
- Water transfer
- Cooling systems
- Washing systems
- Pressure Boosting systems
- Utility water supply in industries and commercial buildings
- HVAC system
- Firefighting system

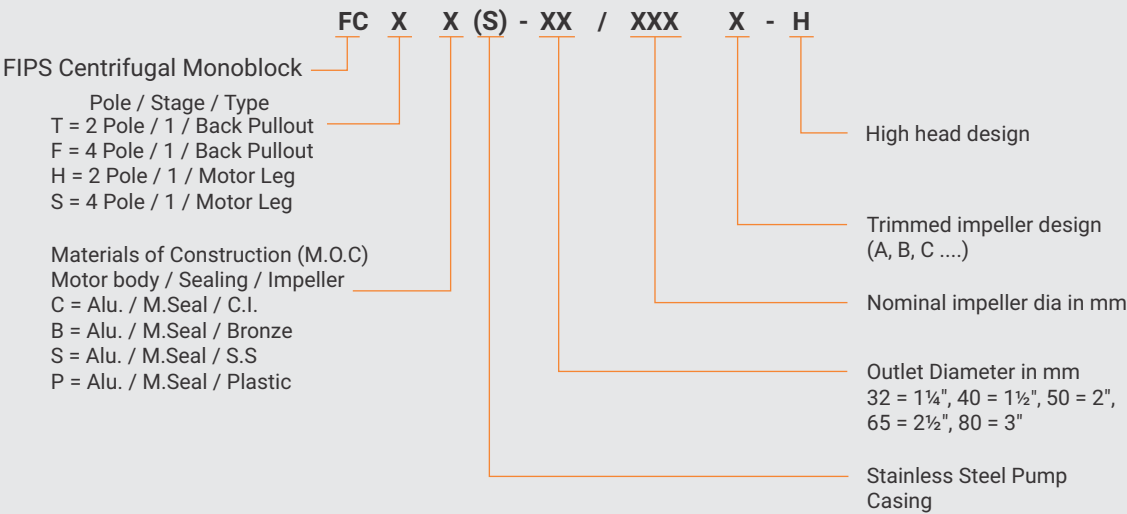
Pump & Motor Specifications

Power Range (kW)	1.5 kW to 37 kW
Speed	2900 rpm
Degree of Protection	IP 55
Class of insulation	"F"
Motor Efficiency Class	IE3
Versions	Three Phase, 220V-380V, 50Hz A.C Supply
Type of Duty	S1 (Continuous)
Direction of Rotation	Clock wise viewed from driving end
Method of Starting	DOL / SD
Design Standard	EN 733 (DIN 24255 Standard and back pull out type)

Pump Operating Limit

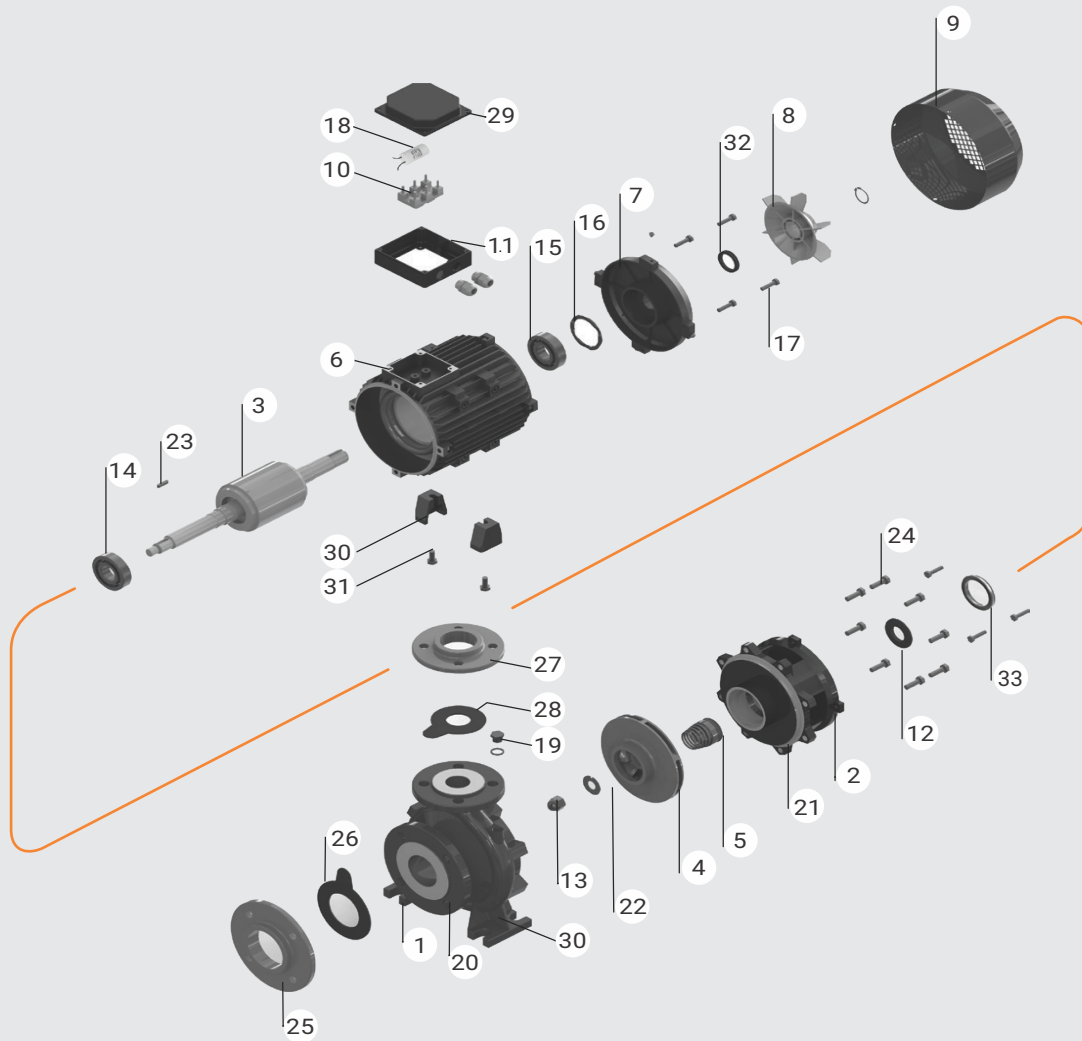
Flow Range	4.5 - 240 m³/h
Head Range	10 - 92.5 m
Maximum Suction lift	Refer individual curve to calculate suction head considering NPSHr & NPSHa
Operating Temperature	-10°C to 90°C
Maximum Ambient Temperature	50°C
Maximum allowable working pressure	10 bar

Model Identification Code



Sample Description:
FCTC-50/125B : 2.2KW, 21/2"X2" CENTRIFUGAL PUMP

EXPLODED VIEW



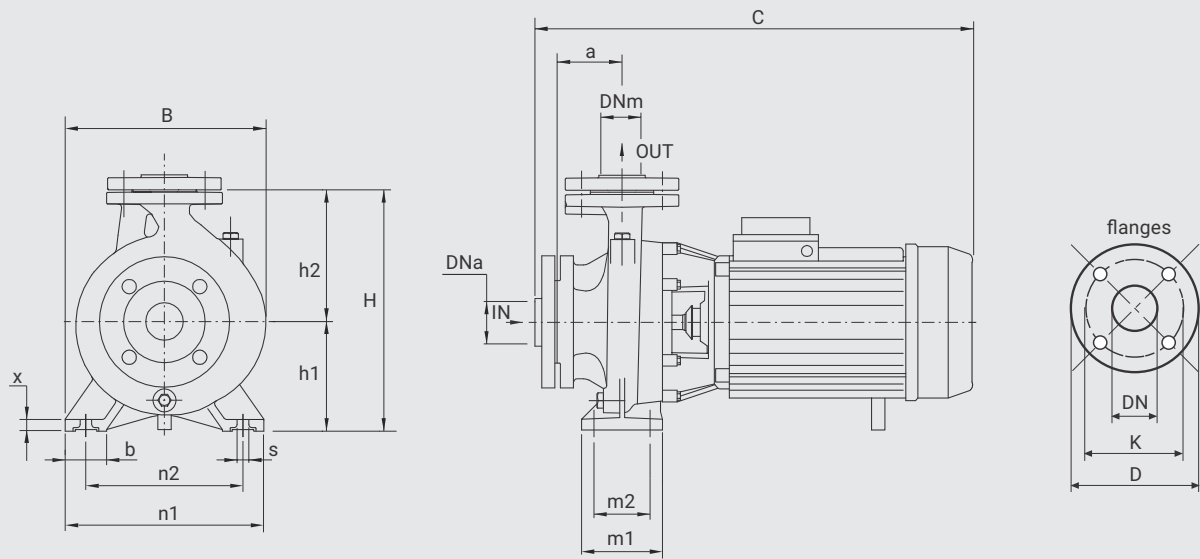
Part No.	Part Name
1	Pump body
2	Motor bracket
3	Shaft and rotor 3 phase
4	Cast iron impeller / Bronze impeller
5	Mechanical sea
6	Motor case and winding 3 phase
7	Motor cover
8	Fan
9	Fan cover
10	Terminal box 3 phase / 1 phase
11	Terminal box cover
12	Splash guard
13	Impeller stop nut
14	Pump side ball bearing
15	Fan side ball bearing
16	Adjusting ring

Part No.	Part Name
17	Motor rod
18	Capacitor
19	Filling plug
20	Drain plug
21	Pump body O-R gasket
22	Mechanical seal spacer
23	Key
24	Motor bracket-pump body screw
25	Suction pipe flange
26	Suction pipe gasket
27	Delivery pipe flange
28	Delivery pipe gasket
29	Capacitor holding box
30	Metal foot
31	Lockin pin (screw)
32	V-Ring
33	Ring seal

MATERIAL OF CONSTRUCTION

PART NAME	MOC	DIN	USA
Pump Casing	Cast Iron	GG20	ASTM A48 Class 35
Casing Cover, Back Cover & Stuffing Box	Cast Iron	GG20	ASTM A48 Class 35
Impeller	Cast Iron / Stainless steel	GG20	ASTM A48 Class 35
Shaft Seal	Mechanical Seal (Silicon Carbide & Carbon)	Mechanical Seal (Silicon Carbide & Carbon)	Mechanical Seal (Silicon Carbide & Carbon)
O' Ring & Oil Seal	Rubber	Rubber	Rubber
Shaft	EN8	CK45 (1.1191)	ASTM A29 AISI 1045
Motor Body	Aluminium - ADC-12	Aluminium - ADC-12	Aluminium - ASTM A383 ADC12
Terminal Box	Aluminium - ADC-12	Aluminium - ADC-12	Aluminium - ASTM A383 ADC12

DIMENSIONAL DRAWING

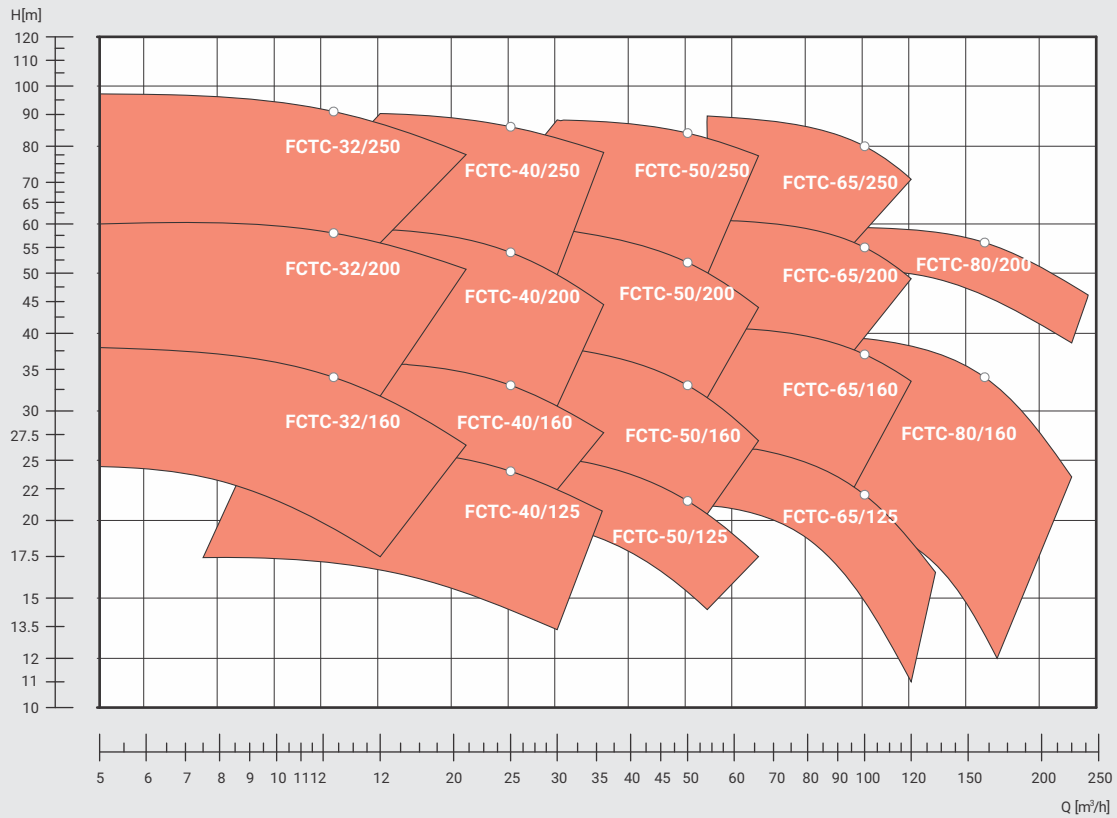


Dimensions (mm)			Holes	
DN	D	K	n°	Ø
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	4	18
100	220	180	8	18

DIMENSION & WEIGHT DETAILS

Pump Model	DNM	DNA	a	h1	h2	m1	m2	n1	n2	b	x	s	C	B	H	I	L	M	Weight in kg
FCTC-32/160C	32	50	80	132	160	100	70	240	190	50	12	14	490	240	292	485	290	270	44
FCTC-32/160B	32	50	80	132	160	100	70	240	190	50	12	14	490	240	292	485	290	370	42
FCTC-32/160A	32	50	80	132	160	100	70	240	190	50	12	14	490	240	292	555	280	370	47.5
FCTC-32/200C	32	50	80	160	180	100	70	240	190	50	12	14	505	268	340	670	310	440	62
FCTC-32/200B	32	50	80	160	180	100	70	240	190	50	12	14	565	268	340	670	310	440	75
FCTC-32/200A	32	50	80	160	180	100	70	240	190	50	12	14	565	268	340	670	310	440	81
FCTC-32/250C	32	50	100	180	225	125	95	320	250	65	12	14	625	305	405	665	335	535	83
FCTC-32/250B	32	50	100	180	225	125	95	320	250	65	14	14	625	305	405	665	335	535	90
FCTC-32/250A	32	50	100	180	225	125	95	320	250	65	14	14	695	305	405	735	335	535	120
FCTC-40/125C	40	65	80	112	140	100	70	210	160	50	12	14	495	220	252	520	250	340	33.9
FCTC-40/125B	40	65	80	112	140	100	70	210	160	50	12	14	495	220	252	510	280	370	38.4
FCTC-40/125A	40	65	80	112	140	100	70	210	160	50	12	14	495	220	252	520	260	355	40
FCTC-40/160B	40	65	80	132	160	100	70	240	190	50	12	14	500	245	292	520	260	355	47
FCTC-40/160A	40	65	80	132	160	100	70	240	190	50	15	14	500	245	292	590	280	425	57
FCTC-40/200B	40	65	100	160	180	100	70	265	212	50	15	14	590	273	340	670	370	532	78
FCTC-40/200A	40	65	100	160	180	100	70	265	212	50	15	14	590	273	340	670	310	440	83
FCTC-40/250C	40	65	100	180	225	125	95	320	250	65	15	14	630	322	405	665	335	535	84
FCTC-40/250B	40	65	100	180	225	125	95	320	250	65	15	14	630	322	405	772	370	570	122
FCTC-40/250A	40	65	100	180	225	125	95	320	250	65	15	14	700	322	405	780	340	480	1133
FCTC-50/125B	50	65	100	132	160	100	70	240	190	50	12	14	525	250	292	570	321	381	51.5
FCTC-50/125A	50	65	100	132	160	100	70	240	190	50	12	14	525	250	292	590	280	425	59
FCTC-50/160B	50	65	100	160	180	100	70	265	212	50	12	14	590	270	340	670	310	526	78
FCTC-50/160A	50	65	100	160	180	100	70	265	212	50	12	14	590	270	340	670	310	526	82.9
FCTC-50/200C	50	65	100	160	200	100	70	265	212	50	12	14	635	290	360	665	335	535	82
FCTC-50/200B	50	65	100	160	200	100	70	265	212	50	12	14	635	290	360	770	370	580	118
FCTC-50/200A	50	65	100	160	200	100	70	265	212	50	12	14	705	290	360	735	355	535	122
FCTC-50/250C	50	65	100	180	225	125	95	320	250	65	14	14	705	332	405	770	370	580	139.8
FCTC-50/250B	50	65	100	180	225	125	95	320	250	65	14	14	750	332	405	815	355	535	140
FCTC-50/250A	50	65	100	180	225	125	95	320	250	65	14	14	750	332	405	1040	420	605	233
FCTC-65/125B	65	80	100	160	180	125	95	280	212	65	14	14	605	280	340	670	370	537	78.2
FCTC-65/125A	65	80	100	160	180	125	95	280	212	65	14	14	605	280	340	670	310	526	84
FCTC-65/160C	65	80	100	160	200	125	95	280	212	65	14	14	635	290	360	770	370	595	114
FCTC-65/160B	65	80	100	160	200	125	95	280	212	65	14	14	635	290	360	771	350	541	124
FCTC-65/160A	65	80	100	160	200	125	95	280	212	65	14	14	705	290	360	770	370	595	135
FCTC-65/200C	65	80	100	180	225	125	95	320	250	65	14	14	705	330	405	771	350	543	136.7
FCTC-65/200B	65	80	100	180	225	125	95	320	250	65	14	14	750	330	405	815	355	535	138
FCTC-65/200A	65	80	100	180	225	125	95	320	250	65	14	14	750	330	405	1040	420	605	231
FCTC-65/250B	65	80	100	200	250	160	120	320	280	80	16	19	850	370	450	1133	471	665	328
FCTC-65/250A	65	80	100	200	250	160	120	320	280	80	16	19	850	370	450	1160	450	665	333
FCTC-80/160D	80	100	125	180	225	125	95	320	250	65	14	14	665	330	405	770	370	580	132
FCTC-80/160C	80	100	125	180	225	125	95	320	250	65	14	14	735	330	405	775	360	490	142
FCTC-80/160B	80	100	125	180	225	125	95	320	250	65	14	14	780	330	405	815	355	580	152
FCTC-80/160A	80	100	125	180	225	125	95	320	250	65	14	14	780	330	405	815	355	535	152
FCTC-80/200B	80	100	125	180	250	125	95	345	280	65	16	14	840	355	405	1133	471	665	312
FCTC-80/200A	80	100	125	180	250	125	95	345	280	65	16	14	840	355	405	1133	471	665	360

GROUP PERFORMANCE CURVE



PERFORMANCE TABLE

Pump Model	Power		Current (Amps) 3PH 380V	Flow (Q)	m³/h	0	4.5	6	7.5	9	12	15	18	21	24	27	30	33
	kW	HP				lpm	75	100	125	150	200	250	300	350	400	450	500	550
FCTC-32/160C	1.5	2	4	Head (m)		24.7	24.4	24.1	23.6	23	21.5	19.6	17.2	14.1	-	-	-	-
FCTC-32/160B	2.2	3	5.1			29		28.5	28	27.3	25.7	23.8	21.4	18.5	14.8	-	-	-
FCTC-32/160A	3	4	7.1			36.8		36.4	36	35.4	34.2	32.8	31.1	28.8	26	22.3	-	-
FCTC-32/200C	4	5.5	8.8			40.1		39.7	39.6	39.3	38.3	36.9	35.2	33	30.4	27.6	-	-
FCTC-32/200B	5.5	7.5	12.4			50.1		50.2	50.1	49.9	49.3	48	46.4	44.5	42.4	39.8	37.2	-
FCTC-32/200A	7.5	10	15			58.6		59	58.9	58.8	58.2	57.1	55.5	53.4	51.1	48.4	45.6	42.5
FCTC-32/250C	9.2	12.5	20.1			70			68.5	68	67	65.5	63.5	61	58	50	36.5	-
FCTC-32/250B	11	15	24.2			82			81	80.5	79.5	78.5	77	74.5	71.9	65	52.5	-
FCTC-32/250A	15	20	30.1			93			92.5	92	91.5	90.5	89.5	87.5	85	78.5	66	-

Pump Model	Power		Current (Amps) 3PH 380V	Flow (Q)	m³/h	0	7.5	9	12	15	18	21	24	27	30	33	36	39	42
	kW	HP				lpm	125	150	200	250	300	350	400	450	500	550	600	650	700
FCTC-40/125C	1.5	2	4	Head (m)		17.4	17.6	17.5	17.3	16.9	16.4	15.8	15.1	14.2	13.3	-	-	-	-
FCTC-40/125B	2.2	3	5.2			20.7		21.3	21.2	21	20.6	20.1	19.4	18.7	17.9	17	-	-	-
FCTC-40/125A	3	4	7.1			25.2		25.8	25.8	25.6	25.4	24.9	24.4	23.7	22.9	22	21.1	-	-
FCTC-40/160B	3	4	7.4			30		30.1	30	29.6	29	28.2	27.1	25.9	24.4	22.8	21	-	-
FCTC-40/160A	4	5.5	9.9			35.4		35.6	35.5	35.3	35	34.2	33.2	32	30.6	29	27.3	25.4	-
FCTC-40/200B	5.5	7.5	12.7			44.7		44.9	44.8	44.6	44	42.9	41.6	40	38.1	36.1	33.6	30.8	27.9
FCTC-40/200A	7.5	10	16.5			57.7		57.7	57.5	57.1	56.3	55.4	54.1	52.5	50.5	48.5	45.9	43.3	40.3
FCTC-40/250C	9.2	12.5	21			65		64.3	63.9	63.3	62.6	61.5	60.2	58.8	56.9	54.5	51.6	48.5	45.5
FCTC-40/250B	11	15	24.2			75.5		74.6	74.2	73.5	72.7	71.7	70.4	69	67.2	65	62.5	59.5	56
FCTC-40/250A	15	20	32			91.5		90.4	89.9	89.3	88.5	87.5	86.6	85.5	84	82.5	80.5	78.5	76

PERFORMANCE TABLE

Pump Model	Power		Current (Amps) 3PH 380V	Flow (Q)	m³/h	0	21	24	27	30	33	36	39	42	48	54	60	66	72	78
	kW	HP			lpm	0	350	400	450	500	500	600	650	700	800	900	1000	1100	1200	1300
FCTC-50/125B	3	4	7.1	Head (m)		19.8	20	19.8	19.5	19.3	18.8	18.5	18	17.6	16.5	15.3	14	12.5	10.8	-
FCTC-50/125A	4	5.5	9.6			24.8	25	24.8	24.6	24.3	23.9	23.5	23.2	22.7	21.8	20.7	19.4	17.9	16.2	-
FCTC-50/160B	5.5	7.5	11.6			31.1	32.1	32	31.7	31.4	31	30.4	29.7	28.9	27.3	25.3	23.1	20.7	18	15.2
FCTC-50/160A	7.5	10	15.8			36.7	37.9	37.8	37.7	37.4	37.1	36.6	36.1	35.4	33.9	32.1	30	27.8	25.3	22.6
FCTC-50/200C	9.2	12.5	18.5			46		45.6	45.1	44.5	43.7	42.9	41.8	40.8	38.5	35.9	33	29	24.5	-
FCTC-50/200B	11	15	21			50.8		51	50.5	50	49.3	48.5	47.7	46.8	44.7	42.2	39.5	35.9	32	-
FCTC-50/200A	15	20	27			58		58.3	58	57.5	57	56.4	55.7	55	53.2	51.3	49	46.3	42.8	38.8
FCTC-50/250C	15	20	32.5			71.5			70.8	70.3	69.7	69	68.3	67.6	66	64	61.5	58.6	55	50.5
FCTC-50/250B	18.5	25	41.5			78			78	77.4	76.8	76.1	75.3	74.5	72.8	70.6	68.2	65.5	62.2	58.3
FCTC-50/250A	22	30	51.5			90			89.5	88.8	88.3	87.7	86.9	86.1	84.5	82.7	80.5	78	75.2	71.7

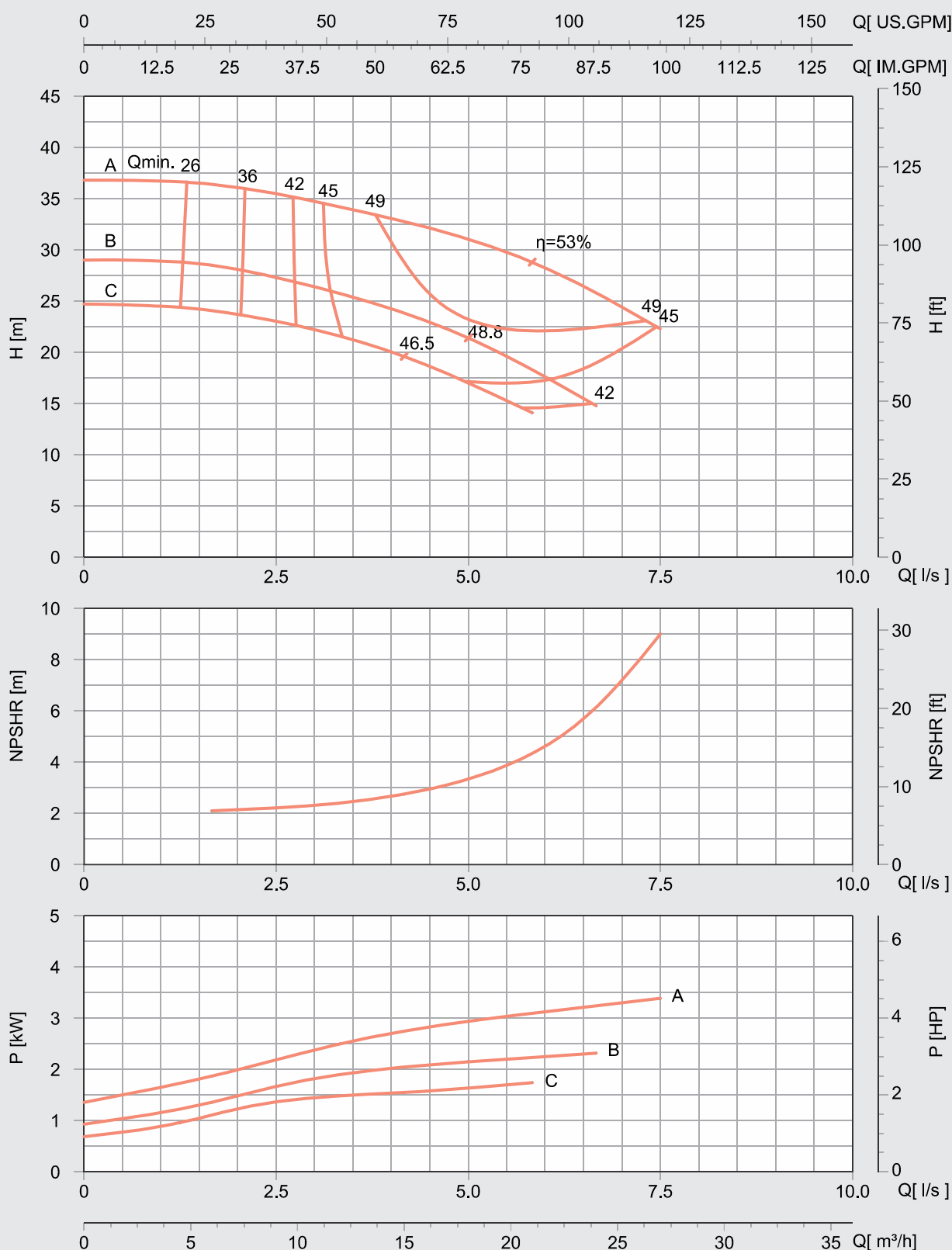
Pump Model	Power		Current (Amps) 3PH 380V	Flow (Q)	m³/h	0	39	42	48	54	60	66	72	78	84	96	108	120	132	144	156
	kW	HP				lpm	0	650	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2400
FCTC-65/125B	5.5	7.5	12.6	Head (m)		20.9	21.8	21.7	21.4	21	20.6	20.1	19.6	19	18.3	16.6	14.7	12.6	-	-	-
FCTC-65/125A	7.5	10	16.3			25.4	26.3	26.3	26.1	25.9	25.6	25.3	24.9	24.5	24	22.7	21	18.9	16.5	-	-
FCTC-65/160C	9.2	12.5	19.5			29.8		31.2	31.1	30.8	30.5	30.1	29.6	29	28.3	26.6	24.6	22.1	19.3	16	-
FCTC-65/160B	11	15	22.5			33		34.6	34.4	34.2	34	33.7	33.3	32.8	32.1	30.6	28.8	26.7	24.1	21.1	-
FCTC-65/160A	15	20	30			39.2		40.6	40.6	40.4	40.2	40	39.7	39.4	38.9	37.7	36.2	34.3	32.2	29.8	-
FCTC-65/200C	15	20	31.4			45.3				46.3	45.7	45.1	44.3	43.4	42.3	39.8	36.7	32.7	28	-	-
FCTC-65/200B	18.5	25	38.2			51.6				52.6	52.2	51.8	51	50.2	49.3	47.1	44.1	40.9	36.6	31.3	-
FCTC-65/200A	22.5	30	43.8			60.2				61	60.6	60.1	59.5	58.7	57.8	55.8	53.1	49.8	46.1	41.7	-
FCTC-65/250B	30	40	63.5			81				79.5	78.5	77.3	76	74.5	73	69.3	65	60	54.5	48.5	-
FCTC-65/250A	37	50	74.5			90				89.5	88.5	87.5	86.5	85.5	84	80.5	76.5	72	66.5	60.5	54

Pump Model	Power		Current (Amps) 3PH 380V	Flow (Q)	m³/h	0	66	72	78	84	96	108	120	132	144	156	168	180	195	210	225	225
	kW	HP				lpm	0	1100	1200	1300	1400	1600	1800	2000	2200	2400	2600	2800	3000	3250	3500	3750
FCTC-80/160D	11	15	22.1	Head (m)		25.4	26.4	26.1	25.7	25.3	24.4	23.6	22.5	21.3	20	18.5	16.9	15.1	-	-	-	-
FCTC-80/160C	15	20	27.4			29.7	30.7	30.5	30.3	29.9	29.2	28.1	27.1	26	24.7	23.1	21.5	19.7	17.2	-	-	-
FCTC-80/160B	18.5	25	34.8			34	35	35	34.8	34.6	34	33.3	32.5	31.6	30.5	29.2	27.8	26	23.6	21	-	-
FCTC-80/160A	22.5	30	39.8			38.8	39.8	39.7	39.6	39.4	38.9	38.2	37.5	36.7	35.7	34.5	33.2	31.6	29.4	26.8	23.5	-
FCTC-80/200B	30	40	63.5			49				50.8	50.6	50.3	49.8	49.3	48.6	47.7	46.7	45.5	43.8	41.5	38.6	-
FCTC-80/200A	37	50	74.5			58					59.6	59.2	58.6	58	57.3	56.4	55.5	54.3	52.7	50.8	48.5	46.1

PERFORMANCE CURVES

FCTC-32/160

2900rpm



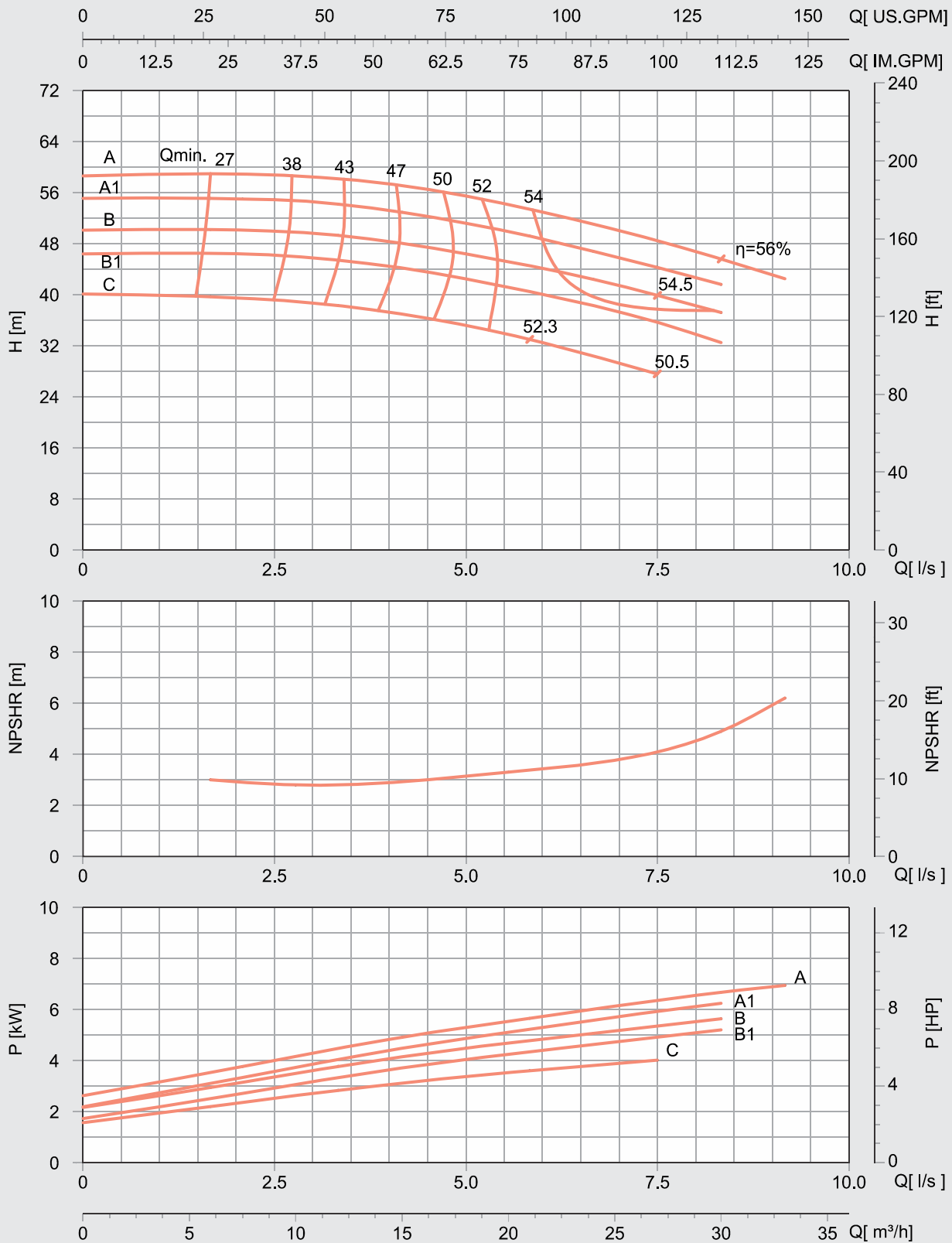
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-32/200

2900rpm



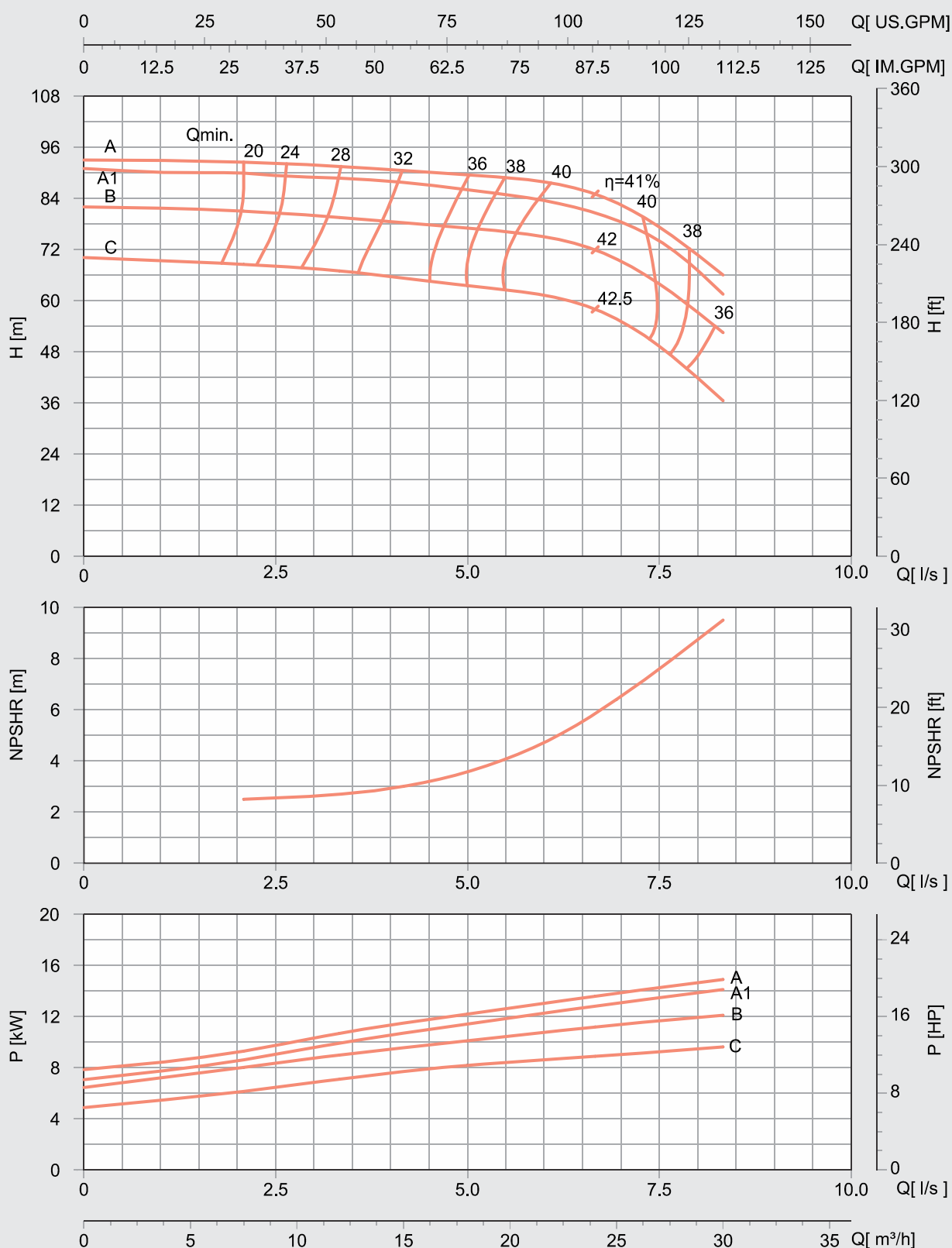
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-32/250

2900rpm



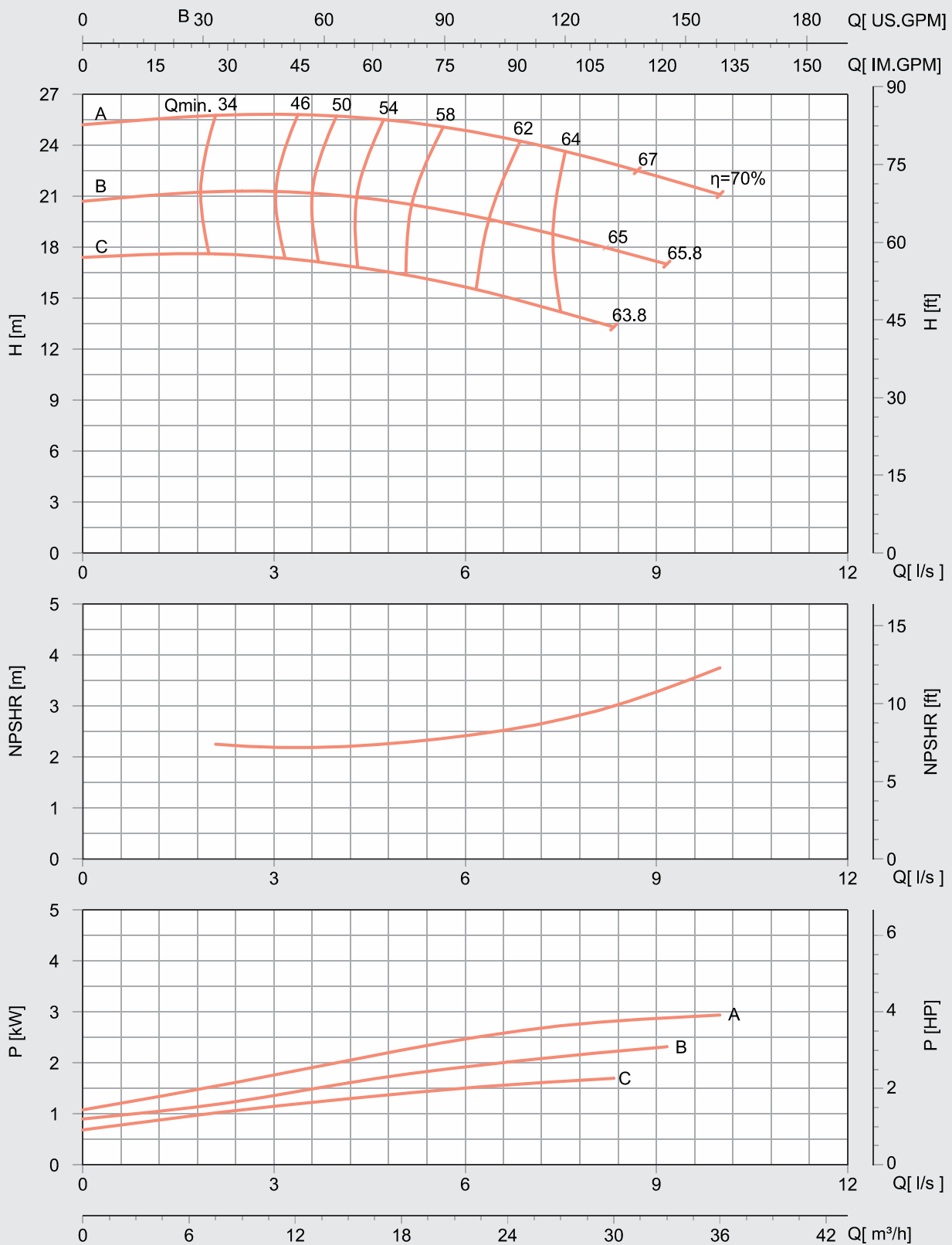
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-40/125

2900rpm



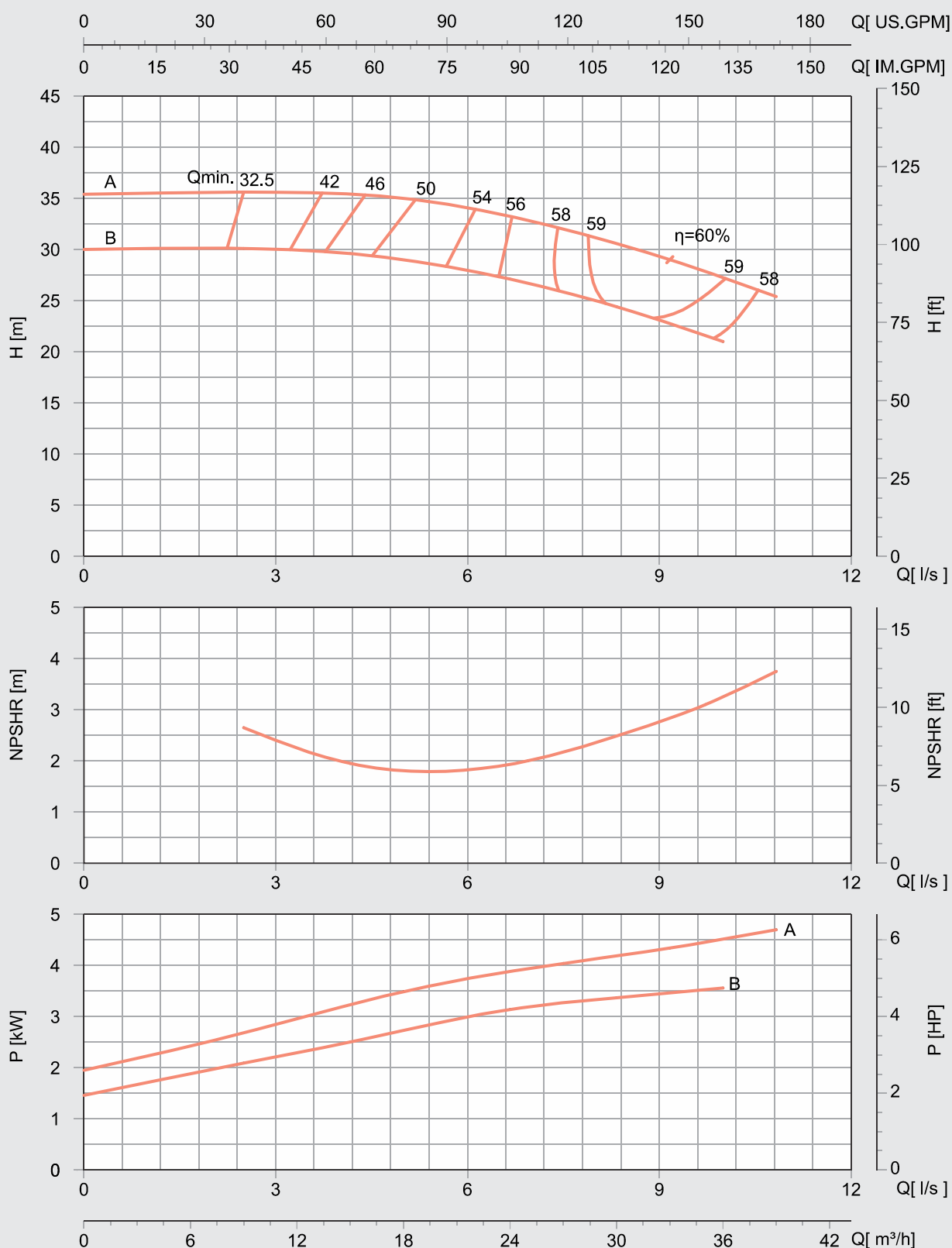
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-40/160

2900rpm



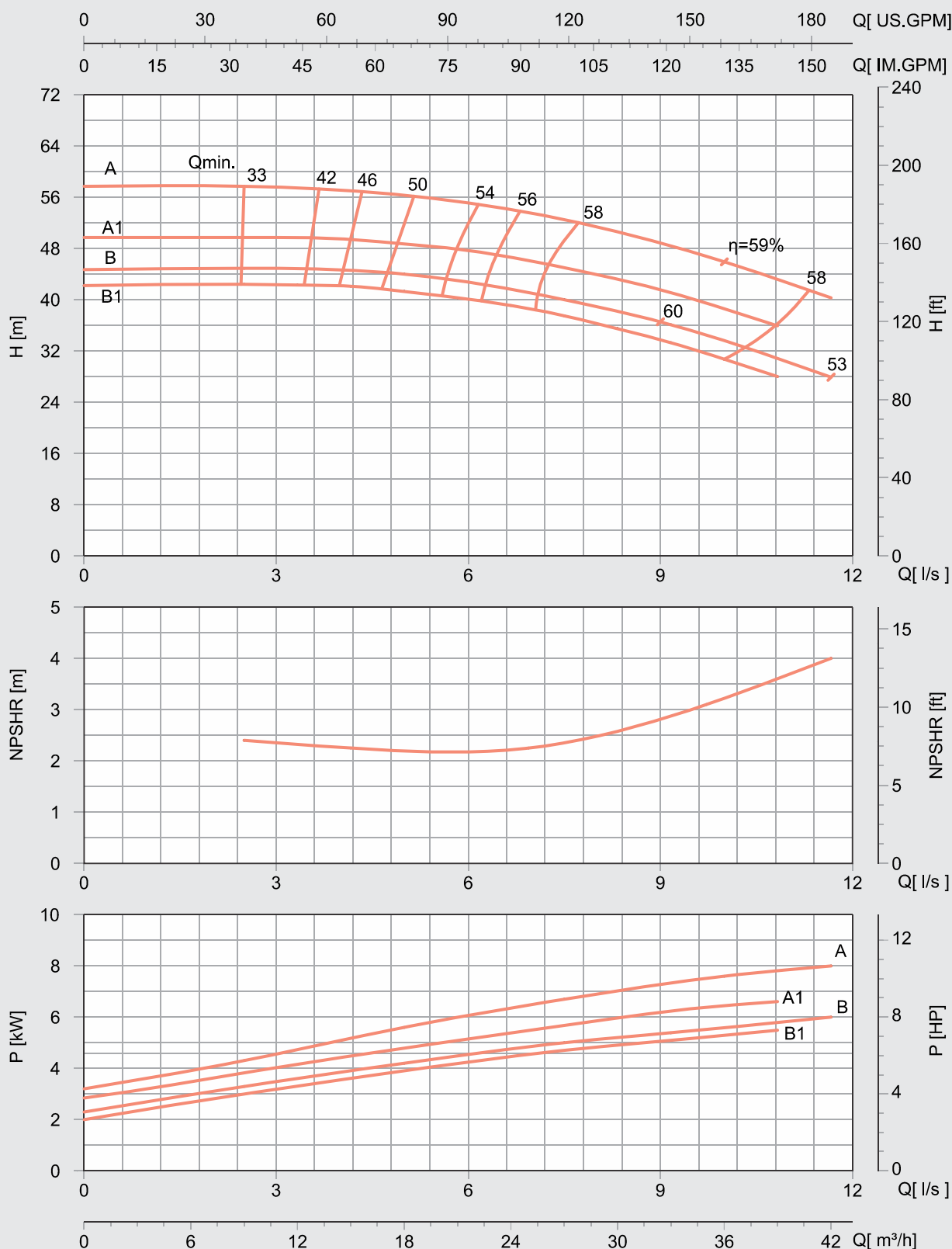
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-40/200

2900rpm



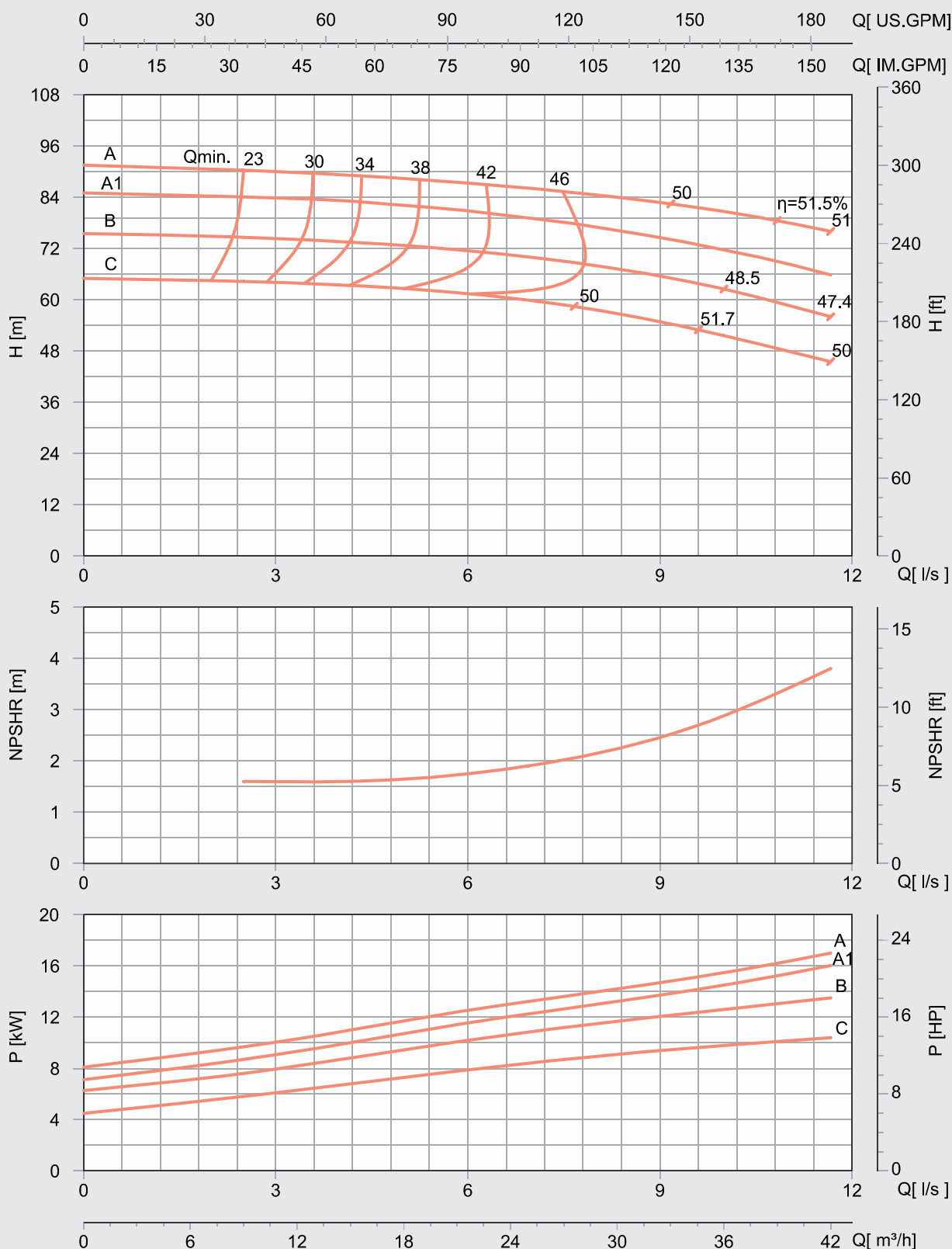
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-40/250

2900rpm



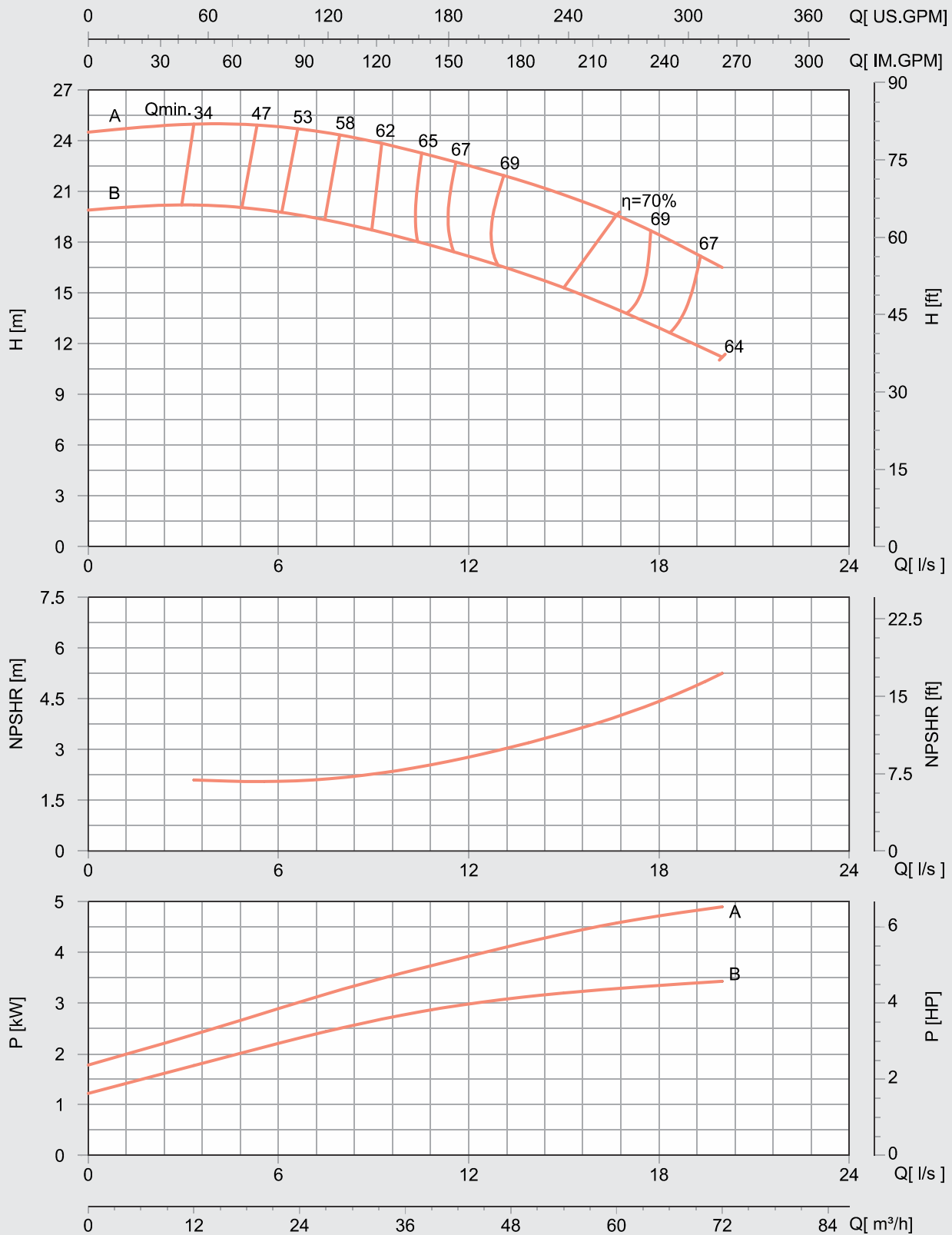
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-50/125

2900rpm



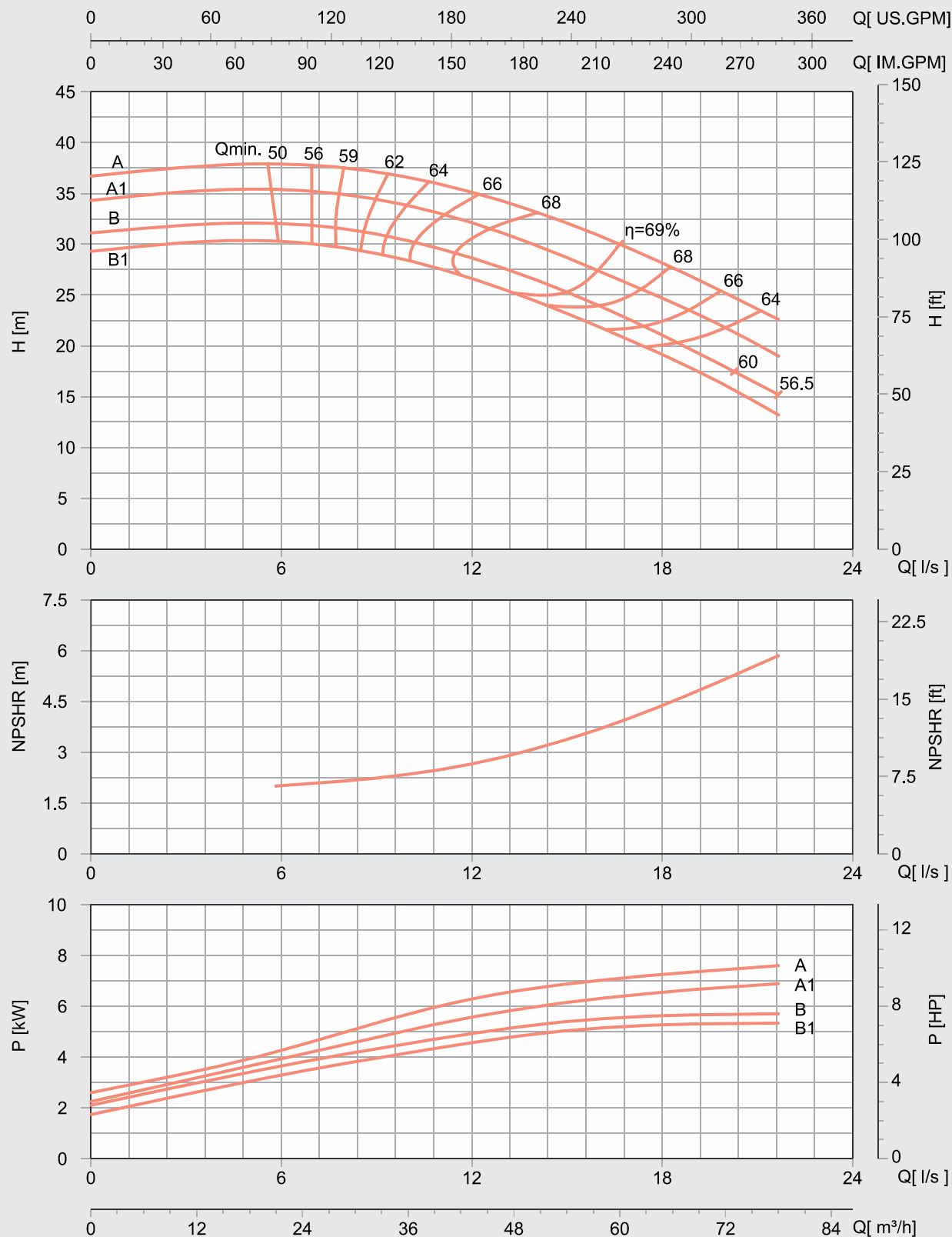
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-50/160

2900rpm

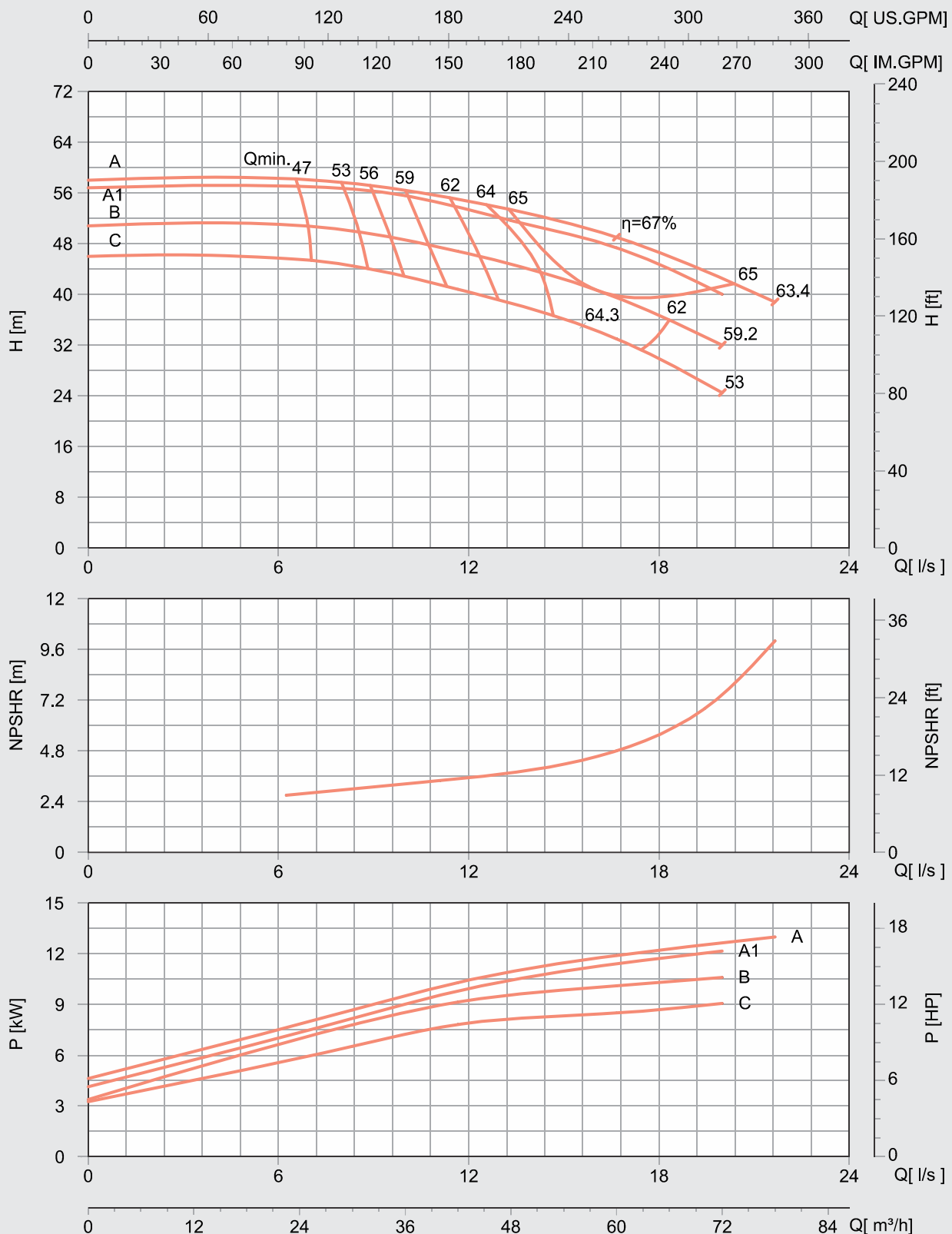


Curve tolerance accordance to ISO 9906, Grade 3B.
In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-50/200

2900rpm



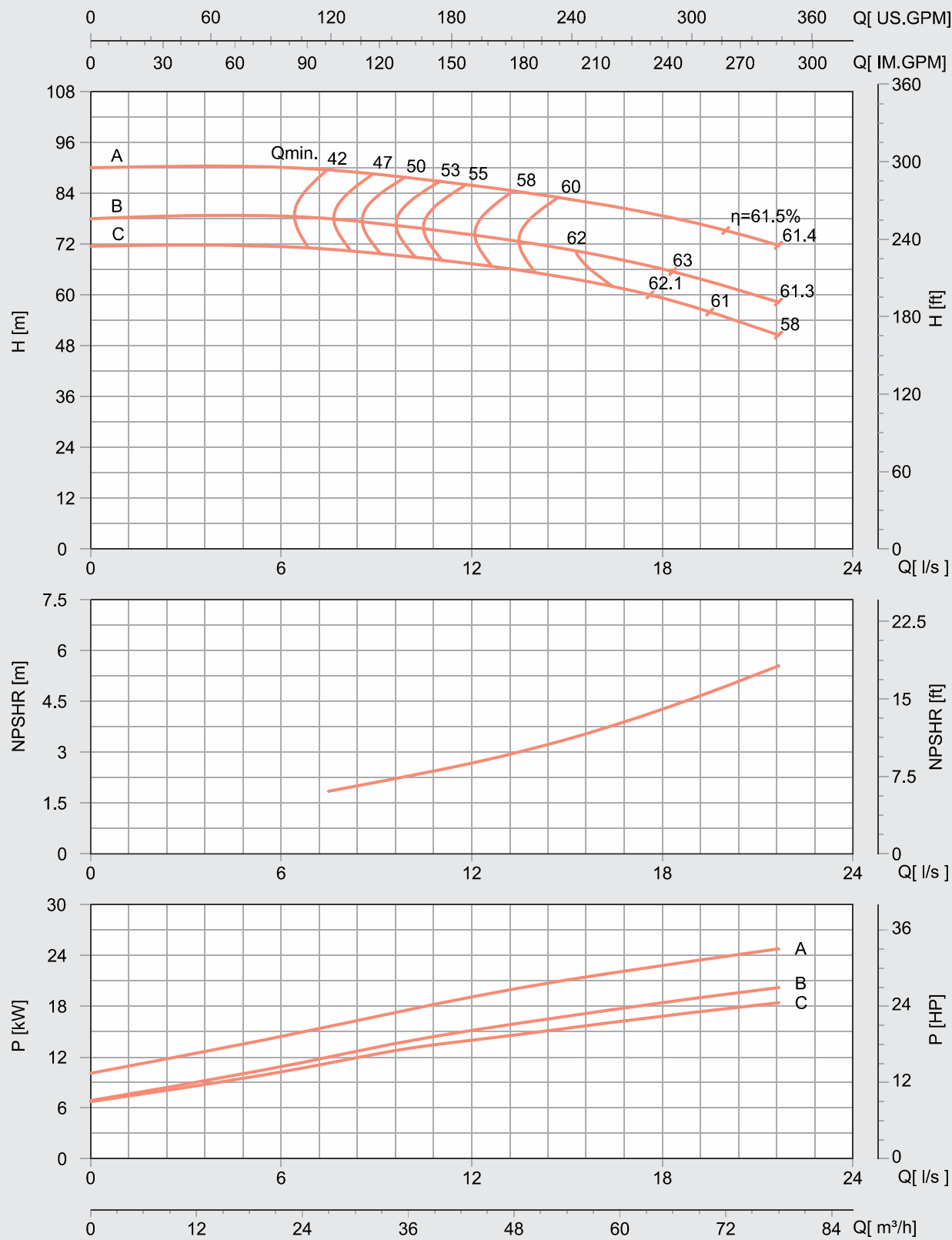
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-50/250

2900rpm

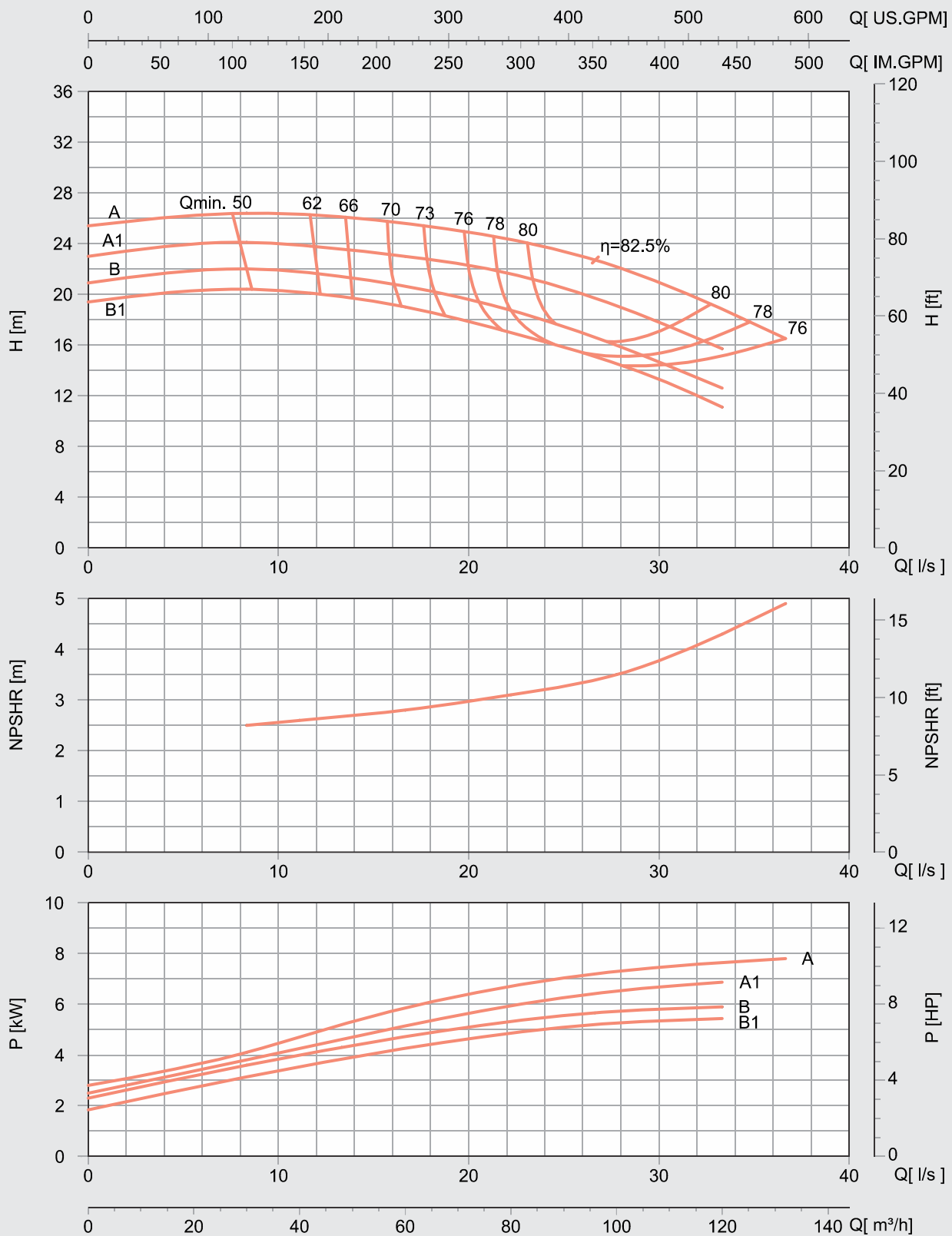


Curve tolerance accordance to ISO 9906, Grade 3B.
In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-65/125

2900rpm



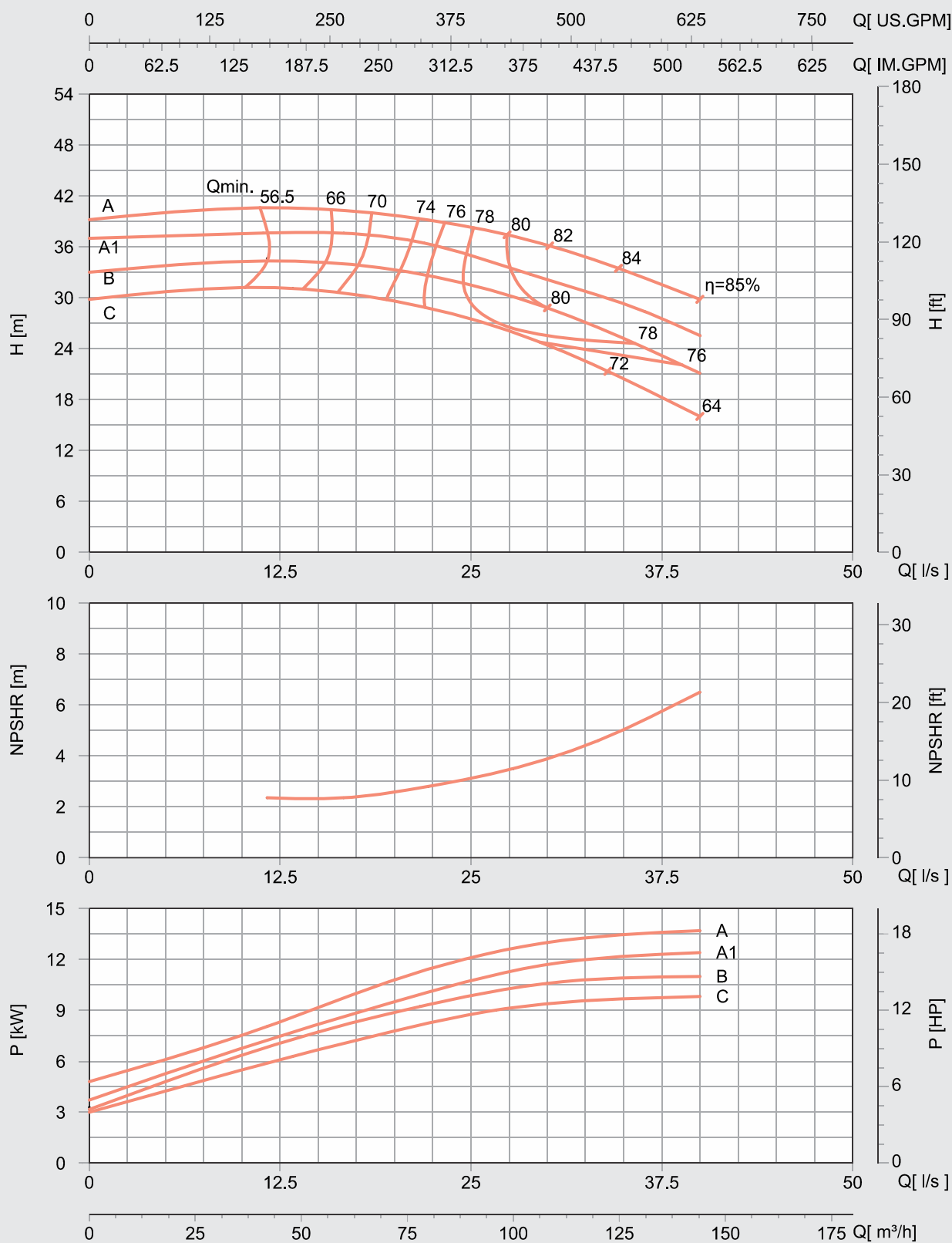
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-65/160

2900rpm



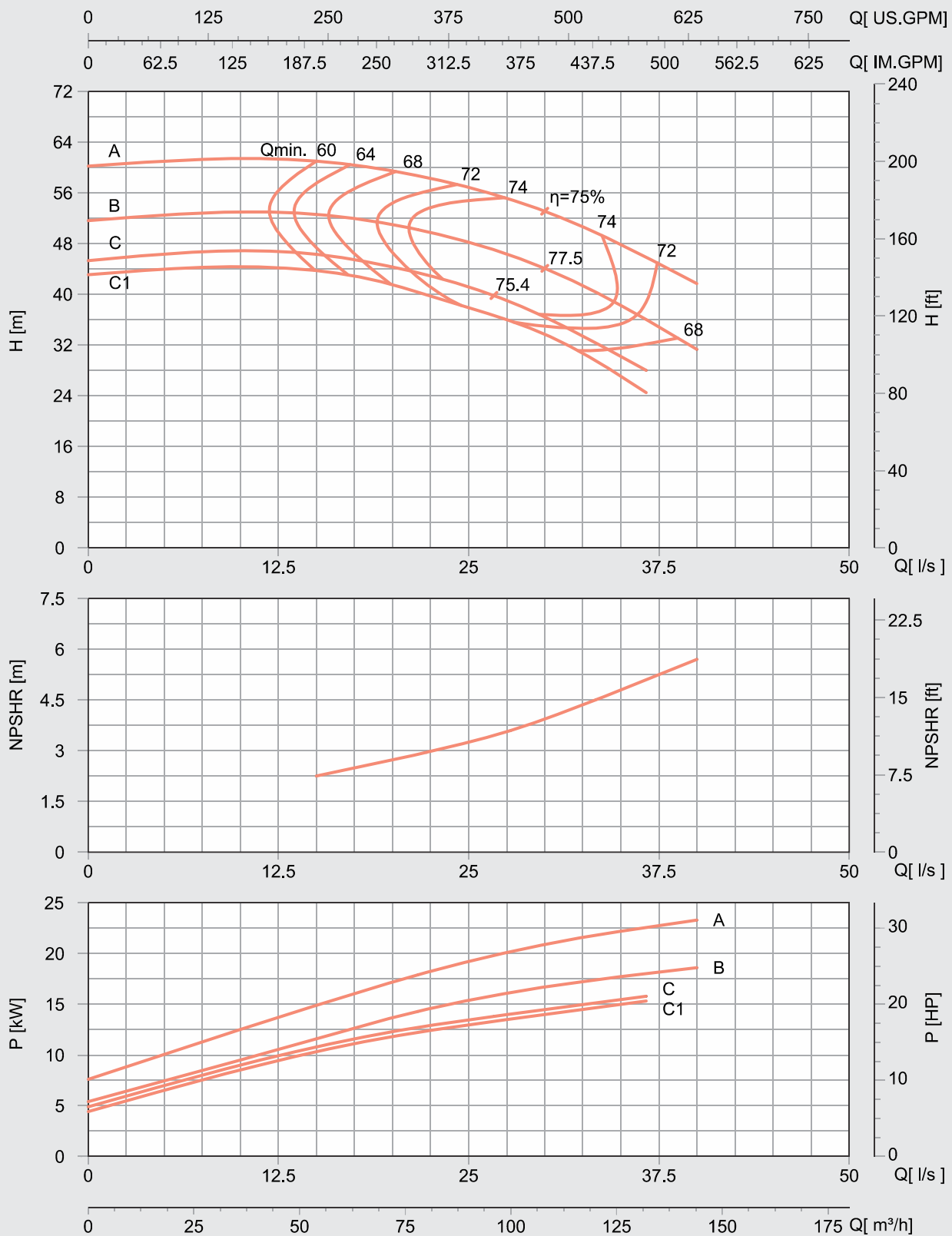
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-65/200

2900rpm



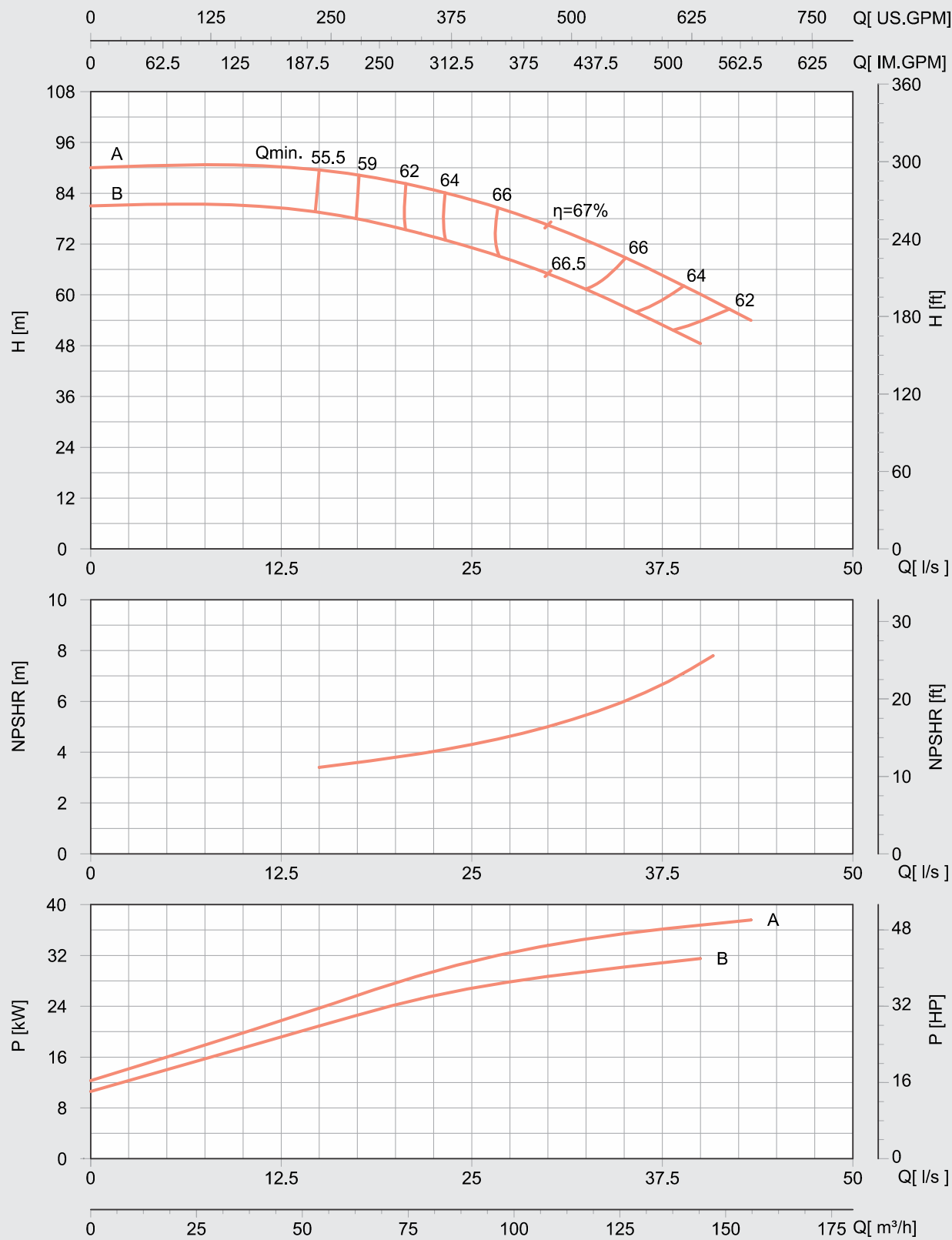
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-65/250

2900rpm

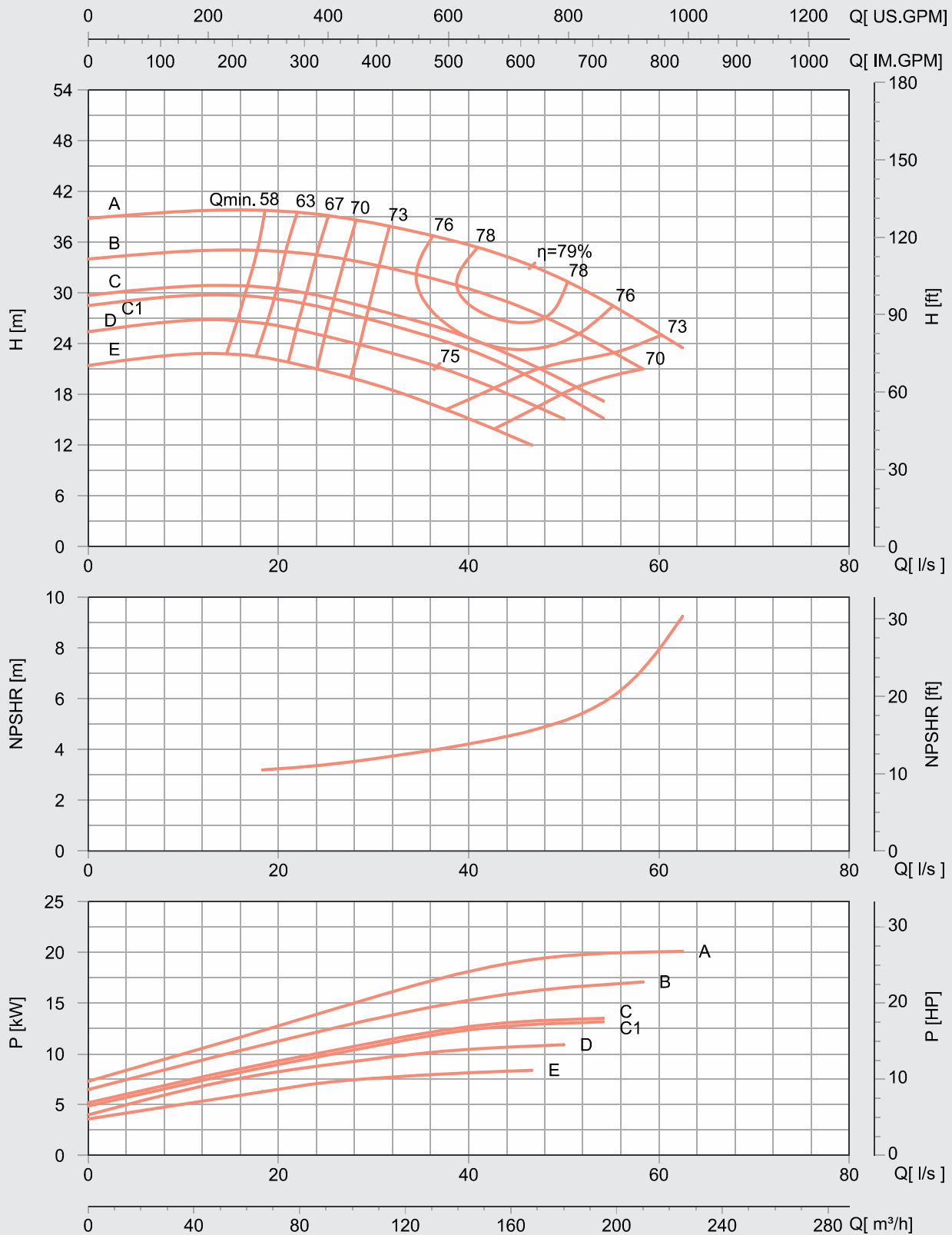


Curve tolerance accordance to ISO 9906, Grade 3B.
In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-80/160

2900rpm



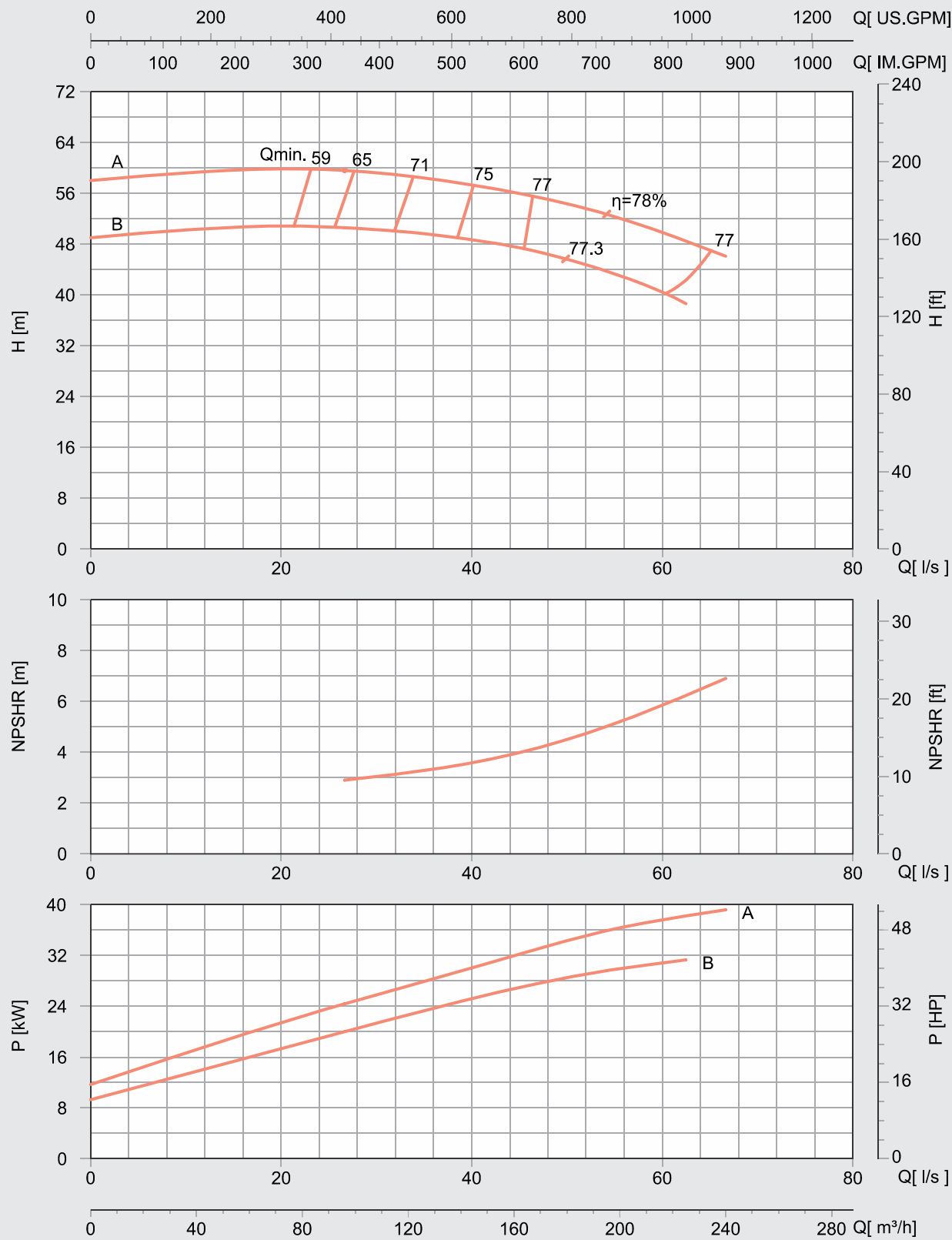
Curve tolerance accordance to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

PERFORMANCE CURVES

FCTC-80/200

2900rpm



Curve tolerance accordance to ISO 9906, Grade 3B.
In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

CENTRIFUGAL PUMPS - STAINLESS STEEL (DIN STANDARD)



Description

Zirantec FCTSS Series pumps are horizontal single stage centrifugal monoblock type supplied with radial flow impeller for higher head and flow requirements. These pumps are rigid in construction and compact design. Centrifugal pumps are powered by a totally enclosed fan cooled three phase premium efficiency motor suitable for continuous duty. Monoblock construction eliminates loss of energy while transmitting the energy from the motor to pump. The complete pump portion is made up of stainless-steel material for hygienic applications like reverse osmosis and pumping of water in food industries. The back pull out design facilitates ease of maintenance. The pump mounting dimensions and duties are in accordance with DIN 24255 and EN733.

Features

- Wide hydraulic ranges
- Back pull out design
- Offered with premium efficiency motor
- Mounting and duties as per DIN24255 / EN 733

Applications

- Agriculture
- Water transfer
- Cooling systems
- Washing systems
- Pressure Boosting systems
- Utility water supply in industries and commercial buildings
- HVAC system
- Firefighting system

PERFORMANCE CURVES

Pump Specifications & Operating Limits

Flow	Upto 200m³/h
Head	Upto 75m
Power Range	1.1 - 37kW
Speed	2900 rpm
Inlet Size	50 - 100mm
Outlet Size	32 - 80mm
Liquid Temperature	Upto 35°C
Maximum Ambient Temperature	50°C
Shaft seal	Mechanical seal (Carbon & Ceramic)
Impeller Type	Enclosed Radial Flow
Maximum Working Pressure	Upto 10 bar
Flange Standard	DIN 2501
Design standard	DIN 24255 / EN 733
Maximum Suction Head	Refer individual curve to calculate suction head considering NPSHr & NPSHa

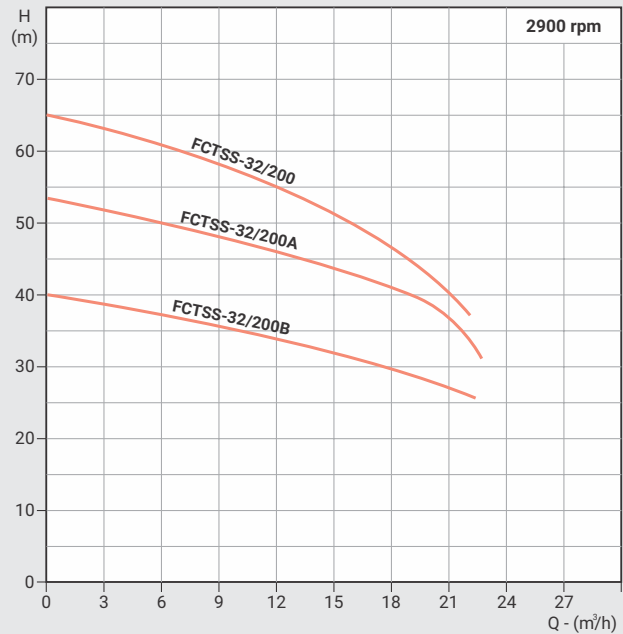
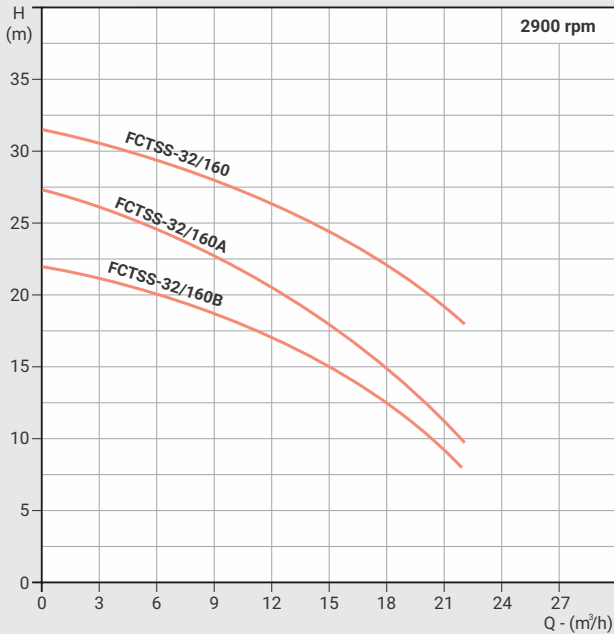
Motor Specifications

Powe range	1.1 - 37kW
Voltage	Three Phase, 380-415V, 50Hz, AC supply
Speed	2900 rpm
Insulation Class	F
Ingress Protection	IP55
Motor Efficiency class	IE3
Duty	S1 Continuous

Material of Construction

Part Name	Material (EN / DIN / USA)
Impeller	X5CrNi 18-10 / 1.4301 / AISI 304
Casing & Stuffing box	X5CrNi 18-10 / 1.4301 / AISI 304
Pump Shaft	X5CrNi 18-10 / 1.4301 / AISI 304
Shaft Seal	Mechanical Seal (Carbon & Ceramic)

PERFORMANCE CURVES



PERFORMANCE TABLE

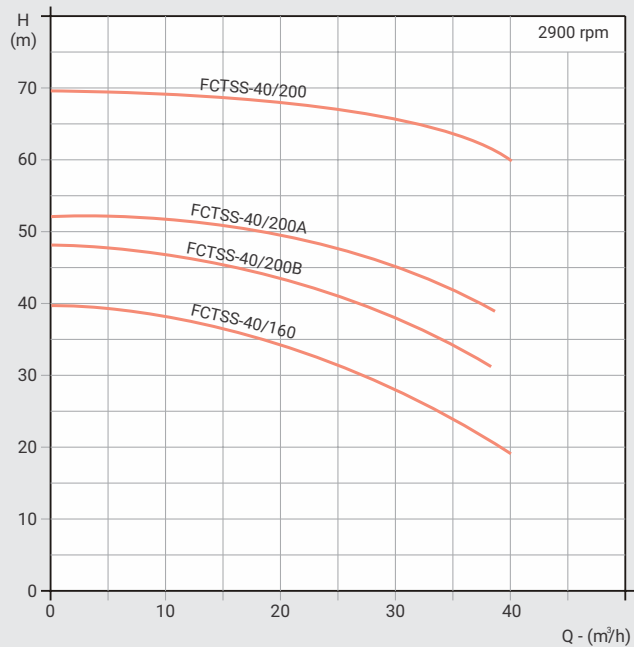
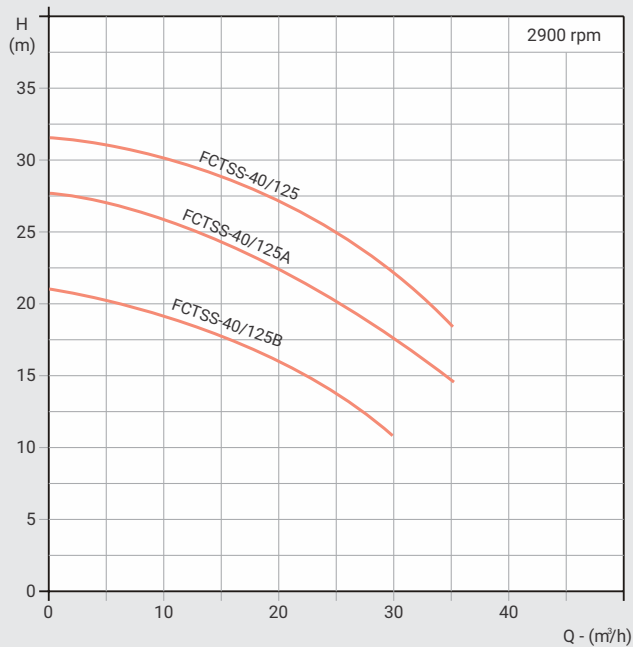
Pump Size : 50 x 32

Pump Model	Power		Current (Amps) 3PH 380V	Flow (Q)	lps	0	0.83	1.67	2.5	3.47	4.17	5	5.56	6.11
	kW	HP				0	3	6	9	12.5	15	18	20	22
FCTSS-32/160B	1.1	1.5	2.6	Head (m)	22	21	20	18.5	16.5	15	12.5	10	8	
FCTSS-32/160A	1.5	2.0	3.5		27	26	24.5	22.5	20	18.5	15	12.5	9.5	
FCTSS-32/160	2.2	3.0	4.9		31.5	30.5	29.5	27.5	26	24	22.5	20.5	18	
FCTSS-32/200B	3.0	4.0	6.3		40	38	37	35	34	32	30	28	26	
FCTSS-32/200A	4.0	5.5	9.6		53.5	51.5	50	48	45	43	41	39	30	
FCTSS-32/200	5.5	7.5	11		65	62	60	58	54	52	47	42	37	

Curve tolerance according to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to without notice.

PERFORMANCE CURVES



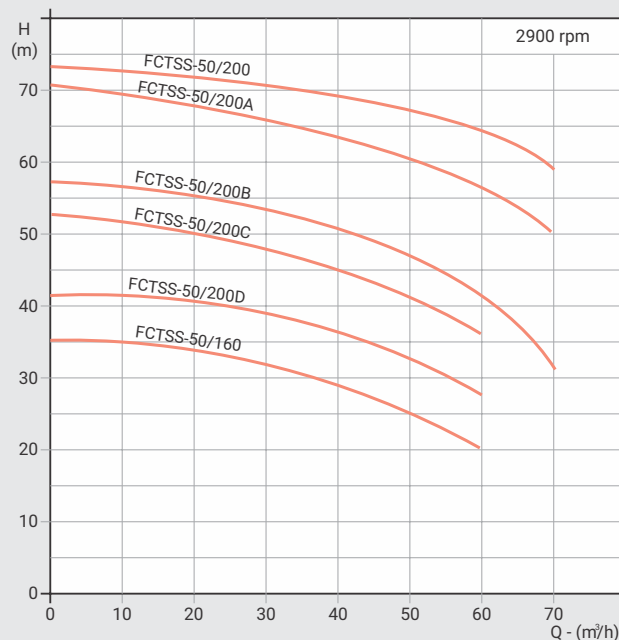
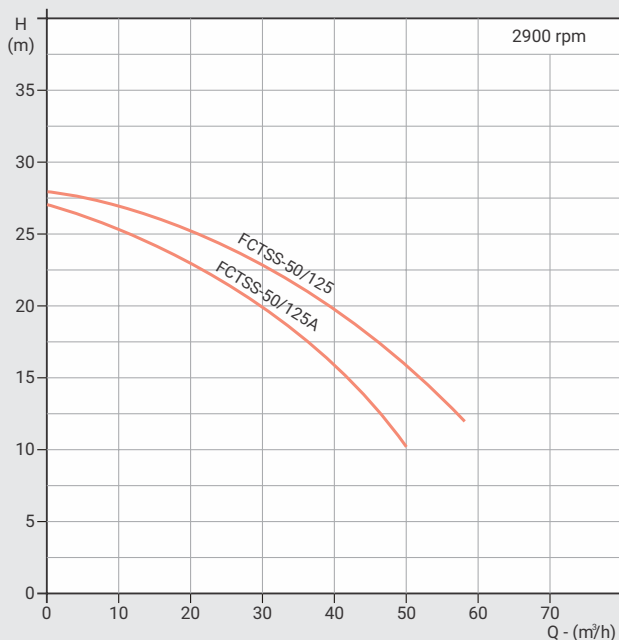
PERFORMANCE TABLE

Pump Size : 65 x 40

Pump Model	Power		Current (Amps) 3PH 380V	Flow (Q)	lps	0	1.39	2.78	4.17	5.56	6.94	8.33	9.72	11.11
	kW	HP				0	5	10	15	20	25	30	35	40
FCTSS-40/125B	1.5	2.0	3.5	Head (m)	21	20	19	17.5	16	13	10.5	-	-	-
FCTSS-40/125A	2.2	3.0	4.9		27.5	27	26	24	22	20	17	14	-	-
FCTSS-40/125	3.0	4.0	6.3		31.5	31	30	29	27	25	22	18	-	-
FCTSS-40/160	4.0	5.5	9.6		39.5	39	38	36.5	34	31	28	24	19	19
FCTSS-40/200B	5.5	7.5	11.1		48	47	46	45.5	44	41	38	34	30	30
FCTSS-40/200A	7.5	10	14.9		52.5	52	51.5	51	50	48	45	42	38	38
FCTSS-40/200	11	15	21.2		69.5	69	69	68.5	68	68	66	64	60	60

Curve tolerance according to ISO 9906, Grade 3B.
In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to without notice.

PERFORMANCE CURVES



PERFORMANCE TABLE

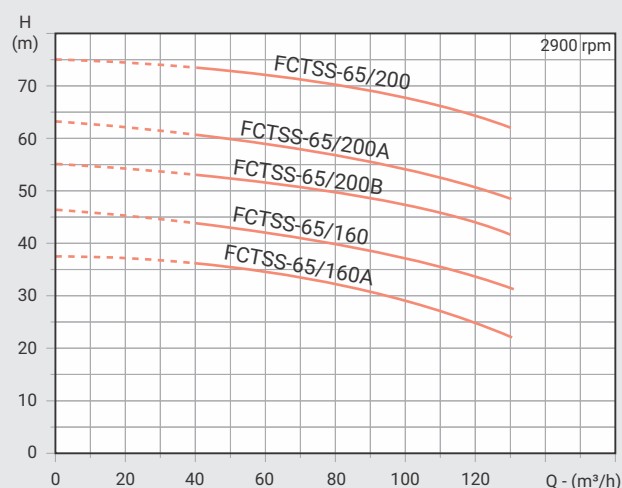
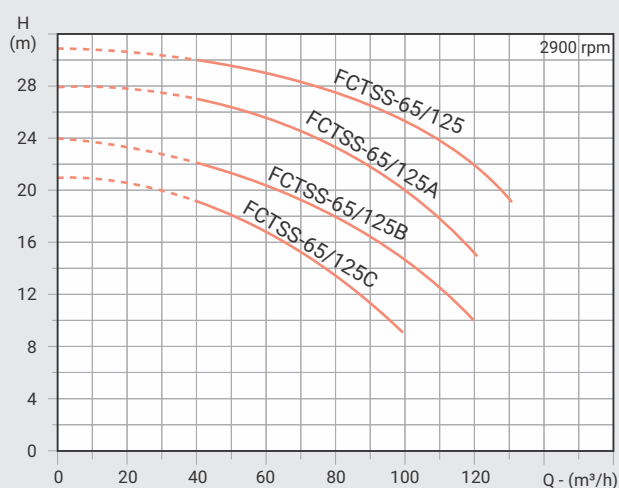
Pump Size : 65 x 50

Pump Model	Power		Current (Amps) 3PH 380V	Flow (Q)	lps	0	1.39	2.78	5.56	18.33	11.11	13.89	16.67	19.44
	kW	HP			m³/h	0	5	10	20	30	40	50	60	70
FCTSS-50/125A	3.0	4.0	6.3	Head (m)		27.5	27	26	23	20	16	10	-	-
FCTSS-50/125	4.0	5.5	9.6			28.2	28	27	26	24	21	16	-	-
FCTSS-50/160	5.5	7.5	11.1			35	34.5	34.5	34	31.5	28.5	24	20	-
FCTSS-50/200D	7.5	10	14.9			41.3	41	41	40.5	39	36	32	27.5	-
FCTSS-50/200C	9.2	12.5	18.3			52.5	52	52	51	49	45	41	37	-
FCTSS-50/200B	11	15	21.2			57.3	57	56	55	53	51	48	42	30
FCTSS-50/200A	15	20	28.6			70.2	69	68	67	65	64	62	57	50
FCTSS-50/200	18.5	25	34.7			73.5	73	72	71	70	69	68	65	59

Curve tolerance according to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to without notice.

PERFORMANCE CURVES



PERFORMANCE TABLE

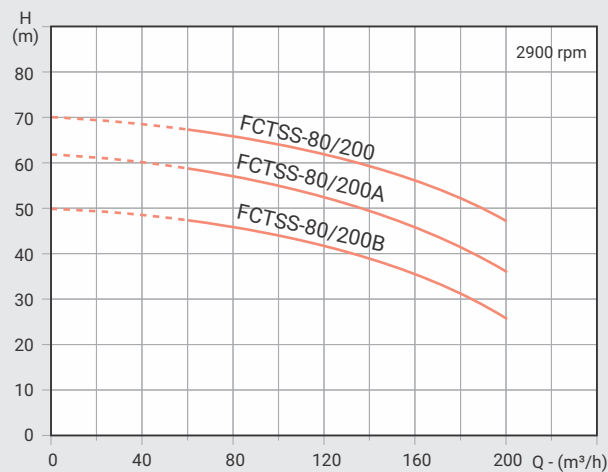
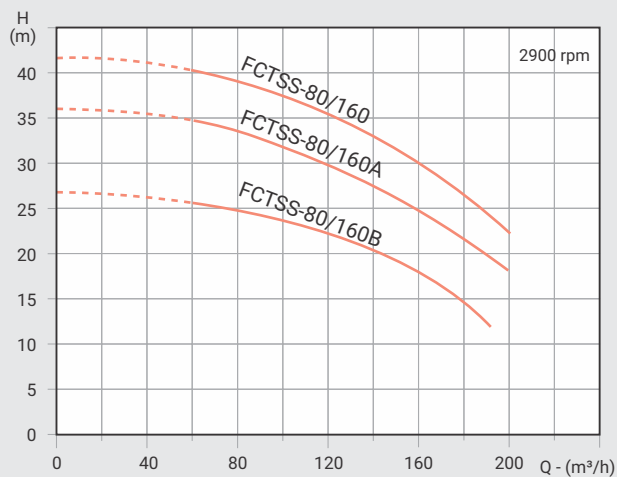
Pump Size : 65 x 40

Pump Model	Power		Current (Amps) 3PH 380V	Flow (Q)	lps	0	11.11	13.88	16.66	19.44	22.22	25.00	27.77	30.55	33.33	36.11
	kW	HP				0	40	50	60	70	80	90	100	110	120	130
FCTSS-65/125C	4.0	5.5	9.6	Head (m)	21	19	18	17	15	13	11	9	-	-	-	-
FCTSS-65/125B	5.5	7.5	11.1		24	22	21	20	19	18	17	13	12	10	-	-
FCTSS-65/125A	7.5	10	14.9		28	27	26	25	24	23	22	19	18	15	-	-
FCTSS-65/125	9.2	12.5	18.3		31	30	29	29	28	27	26	23	22	21	19	19
FCTSS-65/160A	11	15	21.2		38	36	35	34	33	32	31	30	27	25	22	22
FCTSS-65/160	15	20	28.6		46	44	43	42	40	39	38	37	36	34	32	32
FCTSS-65/200B	18.5	25	34.7		55	53	52	51	50	49	48	47	45	44	41	41
FCTSS-65/200A	22	30	30		64	60	59	58	57	56	51	50	48	44	41	41
FCTSS-65/200	30	40	40		75	72	72	71	70	69	65	62	61	60	59	59

Curve tolerance according to ISO 9906, Grade 3B.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to without notice.

PERFORMANCE CURVES



PERFORMANCE TABLE

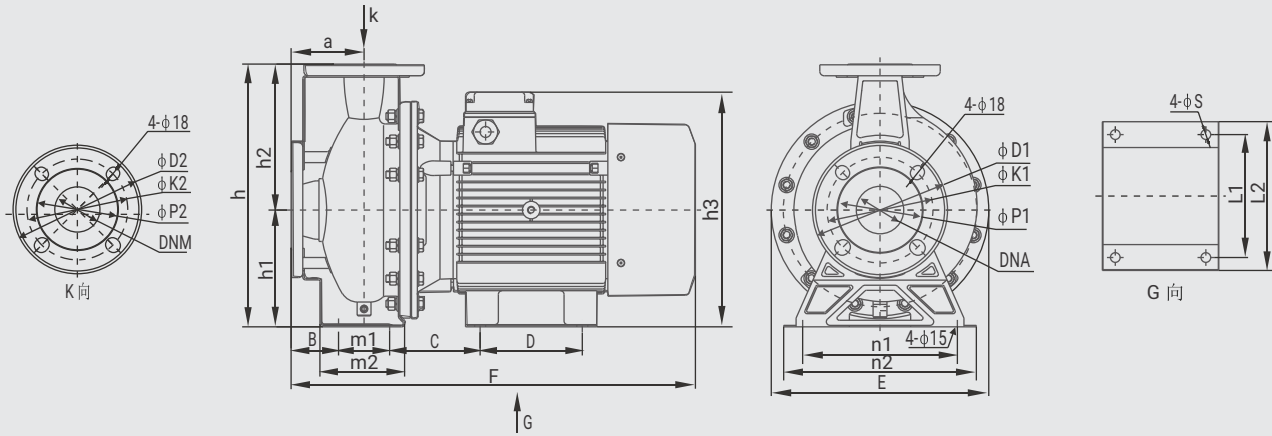
Pump Size : 65 x 50

Pump Model	Power		Current (Amps) 3PH 380V	Flow (Q) lps m³/h	0	16.66	22.22	27.77	33.33	38.88	44.44	50	53.33	55.55
	kW	HP			0	60	80	100	120	140	160	180	192	200
FCTSS-80/160B	11	15	21.5	Head (m)	27	26	25	23	22	20	15	14	11	-
FCTSS-80/160A	15	20	28.6		36	35	33	31	29	27	22	21	20	18
FCTSS-80/160	18.5	25	34.7		42	38	37	36	35	33	28	27	25	22
FCTSS-80/200B	22	30	30		50	46	44	42	40	38	36	31	29	26
FCTSS-80/200A	30	40	40		61	57	56	55	53	50	45	44	42	39
FCTSS-80/200	37	50	47		70	66	65	63	61	59	54	53	51	48

Curve tolerance according to ISO 9906, Grade 3B.

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DIMENSIONAL DRAWING & WEIGHT DETAILS



Pump Model	Power (kW)	ØE	F	H	h1	h2	h3	a	m1	m2	n1	n2	B	C	D	ØS	L1	L2	ØD1	ØK1	ØP1	ØD2	ØK2	ØP2	DNs	DNd	Net Wt (kg)
FCTSS-32/160B	1.1	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	165	125	96	140	100	76	50	32	21.5
FCTSS-32/160A	1.5	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	165	125	96	140	100	76	50	32	22.5
FCTSS-32/160	2.2	210	428	255	112	143	119	80	70	115	160	190	45	111	100	12	160	190	165	125	96	140	100	76	50	32	31
FCTSS-32/200B	3.0	300	460	340	160	180	119	80	70	118	190	240	45	109	100	12	160	190	165	125	96	140	100	76	50	32	38
FCTSS-32/200A	4.0	300	520	340	160	180	162	80	70	118	190	240	45	122	140	15	190	225	165	125	96	140	100	76	50	32	54
FCTSS-32/200	5.5	300	593	340	160	180	182	80	70	118	190	240	45	161	140	15	216	255	165	125	96	141	100	76	50	32	62.3
FCTSS-40/125B	1.5	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	185	145	115	150	110	80	65	40	21
FCTSS-40/125A	2.2	210	425	255	112	143	119	80	70	115	160	190	45	111	100	12	160	190	185	145	115	150	110	80	65	40	29
FCTSS-40/125	3.0	250	460	292	132	160	119	80	70	118	190	240	45	111	100	12	160	190	185	145	115	150	110	80	65	40	37
FCTSS-40/160	4.0	250	520	292	132	160	162	80	70	118	190	240	45	148	140	15	190	230	185	145	115	150	110	80	65	40	49.5
FCTSS-40/200B	5.5	300	615	360	160	200	182	100	70	118	212	264	65	161	140	15	216	255	185	145	115	150	110	80	65	40	62.5
FCTSS-40/200A	7.5	300	615	360	160	200	182	100	70	118	212	264	65	161	140	15	216	255	185	145	115	150	110	80	65	40	74
FCTSS-40/200	11	350	671	360	160	200	255	100	70	118	212	264	65	147	210	15	254	320	185	145	115	150	110	80	65	40	93
FCTSS-50/125A	3.0	250	455	292	132	160	119	80	70	115	190	240	45	110	100	12	160	190	185	145	115	165	125	96	65	50	37.5
FCTSS-50/125	4.0	250	520	292	132	160	162	80	70	115	190	240	45	148	140	15	190	230	185	145	115	165	125	96	65	50	49.5
FCTSS-50/160	5.5	300	615	360	160	200	182	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50	62.5
FCTSS-50/200D	7.5	300	615	360	160	200	182	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50	73
FCTSS-50/200C	9.2	300	617	360	160	200	182	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50	82
FCTSS-50/200B	11	350	671	360	160	200	255	100	70	118	212	264	65	147	210	15	254	320	185	145	115	165	125	96	65	50	93
FCTSS-50/200A	15	350	671	360	160	200	255	100	70	118	212	264	65	147	210	15	254	320	185	145	115	165	125	96	65	50	107
FCTSS-50/200	18.5	350	715	360	160	200	255	100	70	118	212	264	65	147	254	15	254	320	185	145	115	165	125	96	65	50	158
FCTSS-65/125C	4.0	256	514	340	160	180	307	100	95	152	212	250	53	105	140	15	190	225	200	160	132	185	145	115	80	65	50
FCTSS-65/125B	5.5	256	530	340	160	180	322	100	95	152	212	250	53	113	140	15	190	230	200	160	132	185	145	115	80	65	63
FCTSS-65/125A	7.5	256	568	340	160	180	322	100	95	152	212	250	53	113	140	15	190	230	200	160	132	185	145	115	80	65	70
FCTSS-65/125	9.2	256	636	340	160	180	339	100	95	152	212	250	53	125	140	15	216	255	200	160	132	185	145	115	80	65	81
FCTSS-65/160A	11	300	613	360	160	200	339	100	95	152	212	250	53	152	140	15	216	255	200	160	132	185	145	115	80	65	93
FCTSS-65/160	15	300	655	360	160	200	339	100	95	152	212	250	53	152	140	15	216	255	200	160	132	185	145	115	80	65	107
FCTSS-65/200B	18.5	315	717	405	180	225	435	100	95	148	250	290	53	430	241	15	254	354	200	160	132	185	145	115	80	65	158
FCTSS-65/200A	22	356	726	405	180	225	455	100	95	148	250	290	53	169	241	15	279	355	200	160	132	185	145	115	80	65	192
FCTSS-65/200	30	400	844	425	200	225	508	100	95	148	250	290	53	177	305	15	318	386	200	160	132	185	145	115	80	65	223
FCTSS-80/160B	11	256	669	405	180	225	359	125	95	176	250	290	78	183	140	15	216	255	220	180	152	200	160	132	100	80	93
FCTSS-80/160A	15	256	711	405	180	225	359	125	95	176	250	290	78	183	140	15	216	255	220	180	152	200	160	132	100	80	106
FCTSS-80/160	18.5	315	769	405	180	225	435	125	95	176	250	290	78	457	140	15	284	354	220	180	152	200	160	132	100	80	158
FCTSS-80/200B	22	356	811	430	180	250	455	125	95	176	280	320	78	180	241	15	279	355	220	180	152	200	160	132	100	80	193
FCTSS-80/200A	30	400	880	450	200	250	508	125	95	176	280	320	78	188	305	18	318	386	220	180	152	200	160	132	100	80	232
FCTSS-80/200	37	400	880	450	200	250	508	125	95	176	280	320	78	188	305	18	318	386	220	180	152	200	160	132	100	80	256

* All Dimensions are in mm.

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice



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