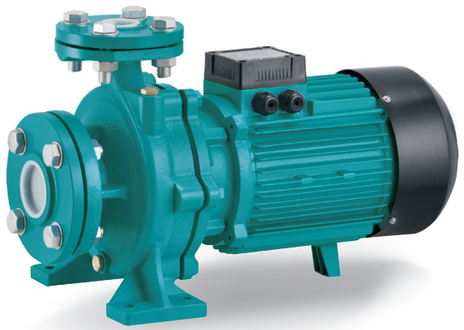


Application

- Circulation and transfer of clean, chemically non-aggressive water and other liquids
- Water supply & irrigation
- Water circulation in air conditioning systems

Operating conditions

- Delivery: up to 220 m^3/h
- Head: up to 95 m
- Liquid temperature:
  Standard: -10℃ to 85℃ Upon request: -20℃ to 120℃
- Maximum operating pressure: 12 bar (PN12)
  Anti-clockwise rotation when facing pump's suction port
- Impeller: AISI304/HT200
- Mechanical seal in compliance with DIN 24960
- Lubricated by internal recirculating pumped liquid
- Counter flange available on request

Motor

- Closed construction, external ventilation
- Insulation class: F
- Protection class: IP54
- Performance in compliance with CEI 2–3 (IEC 34.1)
- Max. ambient temperature: +40℃
- Overload protection

Construction features

- Single–impeller centrifugal pump featuring axial intake and radial discharge
- Inlet and outlet DN in compliance with EN 733 (ex DIN 24255) and UNI 7467
- Flanges in compliance with UNI 2236 and DIN 2532
  Rear entry (impeller, control valve and motor can be extracted without disconnecting the pump body from the pipes)

Accessories on request

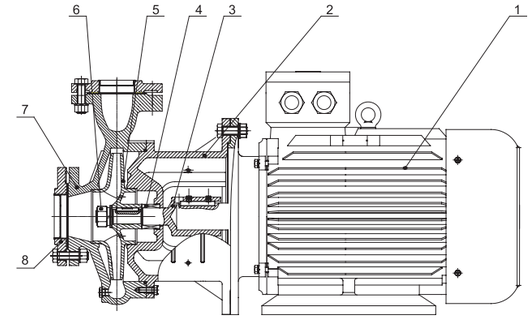
- Galvanised iron threaded counter flanges
- Flanged tapered coupling
- Pump and motor sealing gasket

XSTm32–125/11

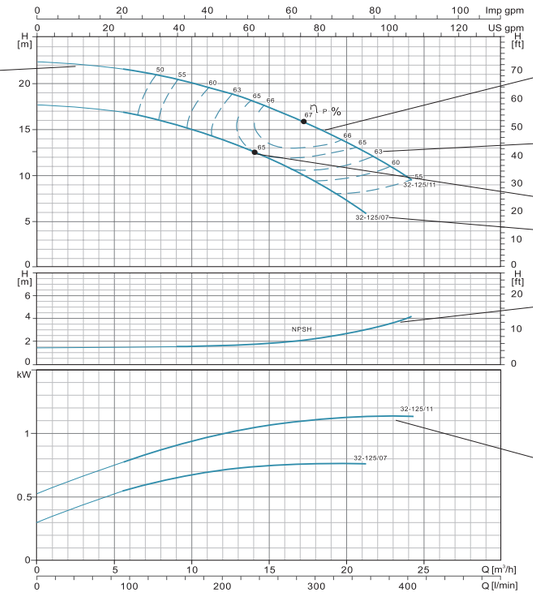
- Rated Power (1/10 kW)
- Impeller Nominal Diameter (mm)
- Outlet Diameter (mm)
- Single Phase (m is omitted for three-phase)
- Standard Centrifugal Pump

Materials Table

No.	Part	Material
1	Motor	
2	Support	HT 200
3	Pump shaft	Steel/AISI 304
4	Mechanical seal	Carbon/Silicon carbide
5	Impeller	HT 200/Stainless Steel
6	Nut	AISI 304
7	Pump body	HT 200
8	Flange	HT 200



How To Read The Curve Charts



The thin curves indicate the duty range where long-time operation is not allowed

The bold curves indicate the duty range where long-time operation is permitted for best efficiency

The efficiency value on the pump working condition

The pump working condition

Pump model

The NPSH curve

The output power curve

Guidelines to Performance Curves

Tolerances to ISO 9906, Annex A.
Measurements have been made with airless water at a temperature of 20℃and kinematic viscosity of $1mm^2/s$.
To avoid overheating of the motor, the pump should not be use against a high head for a long time.

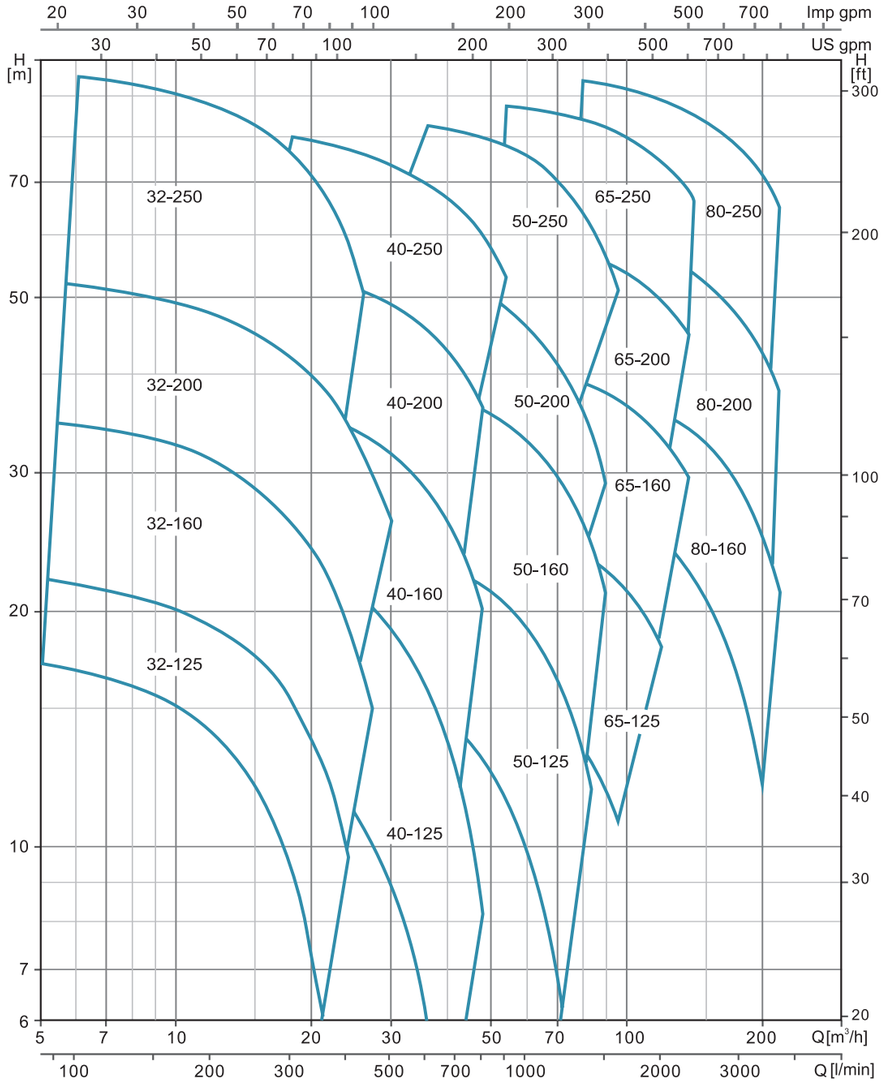
Technical Data

PUMP TYPE	POWER		l/min	Q=DELIVERY																		
	kW	HP	m^3/h	0	100	150	250	300	400	450	600	700	800	900	1200	1400	1500	1800	2000	2300	3000	3500
				0	6	9	15	18	24	27	36	42	48	54	72	84	90	108	120	138	180	210
32-125/07★	0.75	1		17.5	16.7	15	12	9														
32-125/11★	1.1	1.5		22	21	19.7	16.5	14.5	9													
32-160/15★	1.5	2		25.4	23.7	22.5	18.5	15.8														
32-160/22★	2.2	3		31	29.6	28.5	24.5	22	15													
32-160/30★	3	4		35	34.3	34	28	25.5	19	15												
32-200/30★	3	4		44.2	43	39.8	35.2	32.2	24.6	19.8												
32-200/40★	4	5.5		54.5	52	50	45.5	41.9	35	30.3												
32-250/55★	5.5	7.5		79.5	74.7	71.8	63	56	37.5													
32-250/75★	7.5	10		99.5	95	91.8	83	76	57.8													
40-125/11	1.1	1.5		14.7				13.5	11.5	10.1	5.8											
40-125/15	1.5	2		18.1				17	15	13.9	9.6	6										
40-125/22	2.2	3		24.5				23.2	21.5	20.2	16	13	8.3									
40-160/30	3	4		31.8				29.5	27.5	26.3	21.5	17.5										
40-160/40	4	5.5		38				36	34	33	28.5	25	20.1									
40-200/55★	5.5	7.5		46				43.8	41.3	40.1	35	30										
40-200/75★	7.5	10		57				53.6	51.5	50	45	41	36.5									
40-250/92★	9.2	12.5		64				59	56.5	55	49.5	45	39.8									
40-250/110★	11	15		72				67.5	65	63.5	57.5	52.2	47									
40-250/150★	15	20		84.5				80	77.3	75.2	71	65	61									
50-125/22	2.2	3		17							15.4	14	12.8	11.5	6.5							
50-125/30	3	4		20							18.8	18	17	15.6	11							
50-125/40	4	5.5		24							23.1	23	21.5	20.3	15.8	11.8						
50-160/55	5.5	7.5	H(m)	32							30.6	30	28	26.6	20.5	14.8						
50-160/75	7.5	10		40							38	37	36	34.4	29	24	21					
50-200/92★	9.2	12.5		50.5							46.8	45	43	40.9	32.5	25.7						
50-200/110★	11	15		57.5							53.5	52	50	47.5	40	33	29					
50-250/150★	15	20		68.5							64	63	61.5	59	50	41						
50-250/185★	18.5	25		77							73.2	72	70	68	60.5	51.5	47					
50-250/220★	22	30		86.3							83	81.5	80.8	78.7	70	61.9	57					
65-125/40	4	5.5		19									17.3	16.8	14.5	13	11.8					
65-125/55	5.5	7.5		23									21.3	20.9	19	17.5	16.7	13.7				
65-125/75	7.5	10		27									26	25.6	24.5	23	22.5	20	18			
65-160/92	9.2	12.5		33										31.5	30	28	27.1	24	21.5			
65-160/110	11	15		36										34.5	33	31.5	30.8	28	25.5			
65-160/150	15	20		42										41	40	38.5	37.8	35	33	29.5		
65-200/150	15	20		45.5										46	43.5	41	39.2	33				
65-200/185	18.5	25		53										53.5	51.2	48.3	47	41.5				
65-200/220	22	30		59										59.5	57.2	54	53	47	43.5			
65-200I/185	18.5	25		41.2											42	41.2	40.6	38.2	36.5	34		
65-200I/220	22	30		48												48	47.5	46	44	41		
65-200I/330	30	40		59.5												59	58.5	58	56.2	54		
65-250/220	22	30		62										61.5	58.2	56.5	54	49	45			
65-250/300	30	40		76										75	73	71.5	69.5	64.5	61.5	54		
65-250/370	37	50		90										88.3	86.5	84	83	78	75	68		
80-160/110	11	15		27													27.3	26	24.5	22.5	16	
80-160/150	15	20		32.8													32.5	31.3	30.2	28.5	22.1	16.7
80-160/185	18.5	25		39													38	36.8	36.7	33.8	28.8	23.5
80-200/220	22	30		48													47.5	45.5	43.5	41	32.5	24.5
80-200/300	30	45		60													59.5	58	57	54.5	47	40.5
80-250/370	37	50		71.5													70.5	67.5	65.5	61.5	49.5	38.5
80-250/450	45	61		80													80.5	78.5	76.5	73.4	63.2	51
80-250/550	55	75		92.5													93.5	91.2	89.8	86.8	77.6	68.3

★= Stainless steel impeller

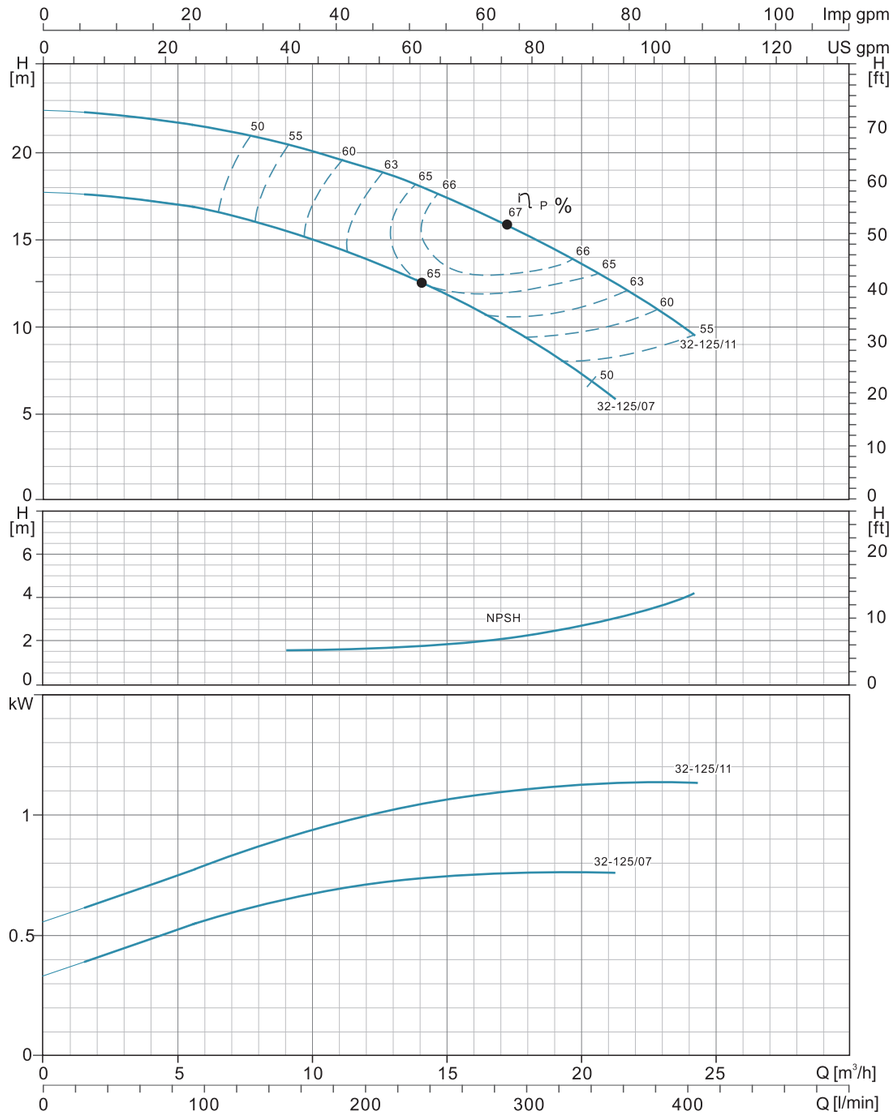
Characteristic Curves

XST	~2900rpm	ISO 9906 Annex A



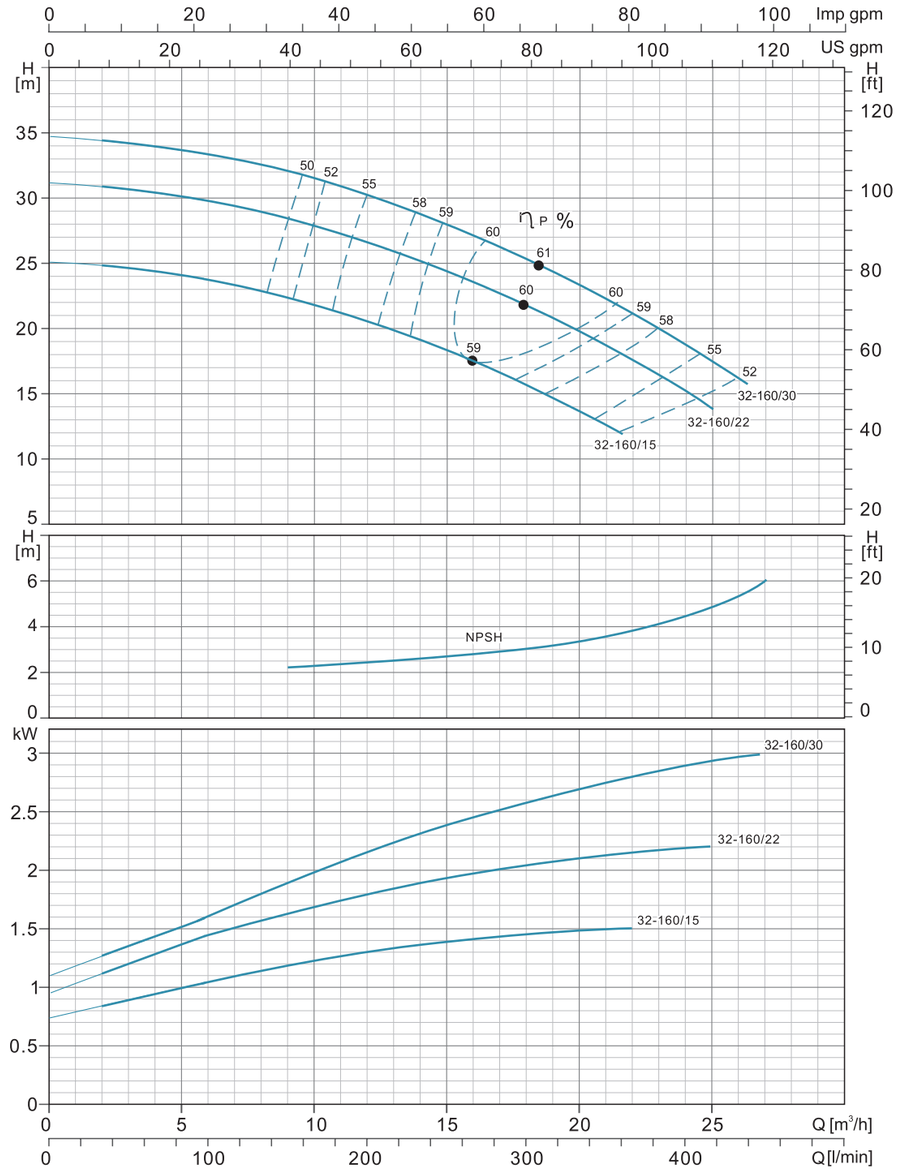
Hydraulic Performance Curves

XST32-125	~2900rpm	ISO 9906 Annex A



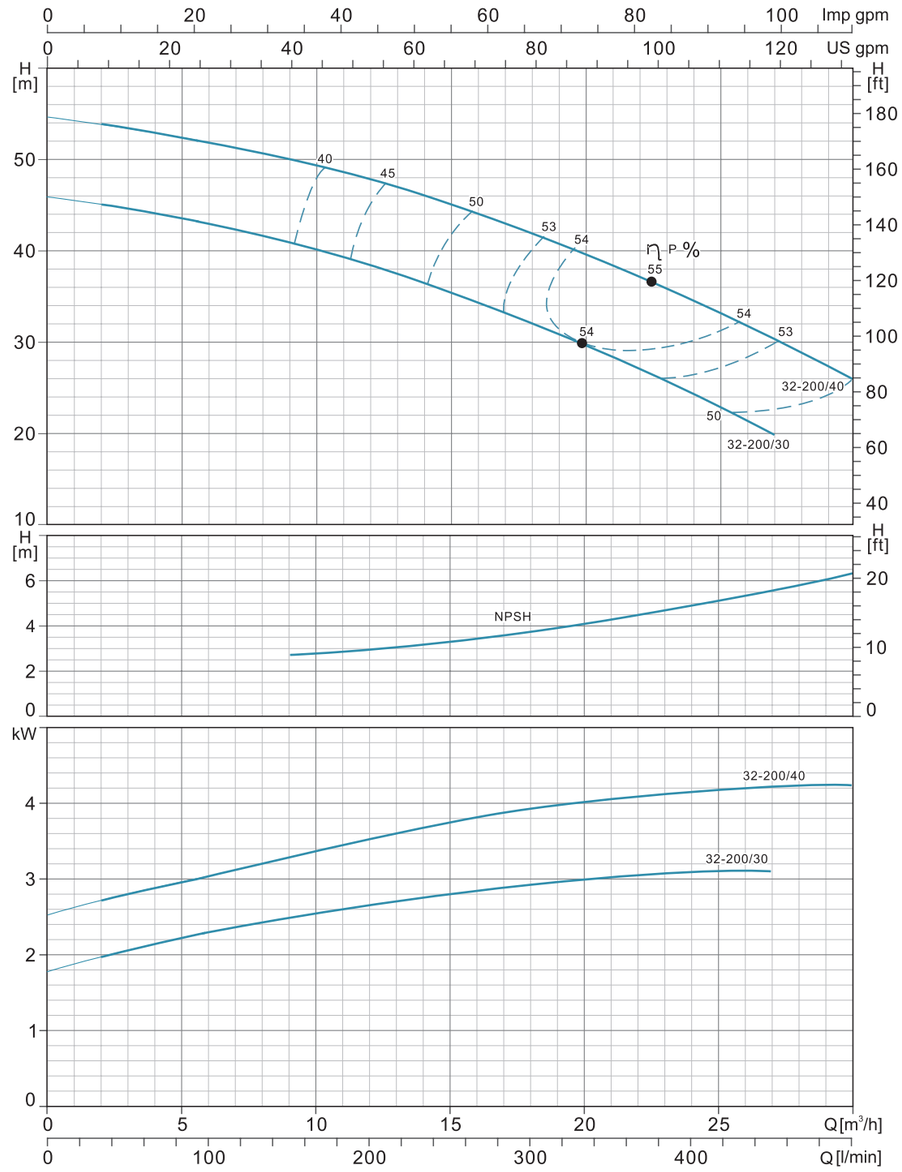
Hydraulic Performance Curves

XST32-160	~2900rpm	ISO 9906 Annex A



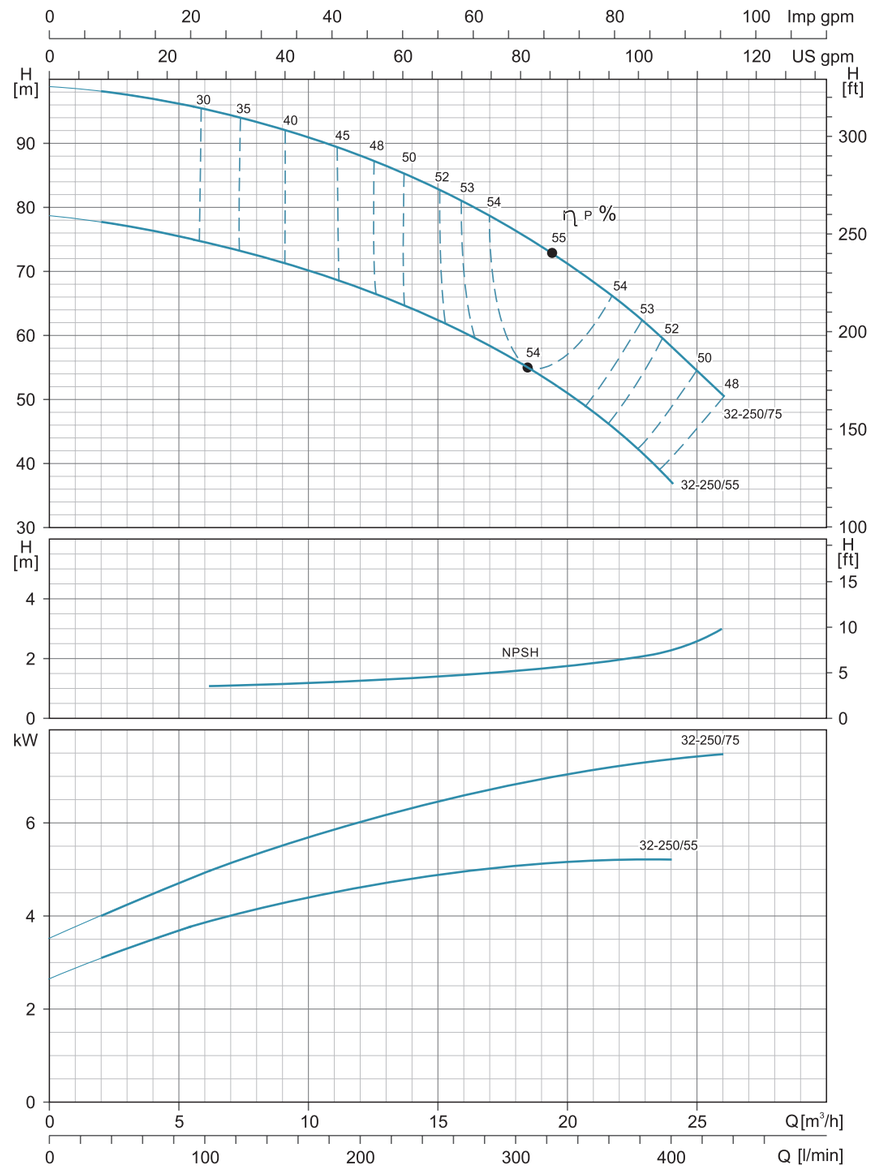
Hydraulic Performance Curves

XST32-200	~2900rpm	ISO 9906 Annex A



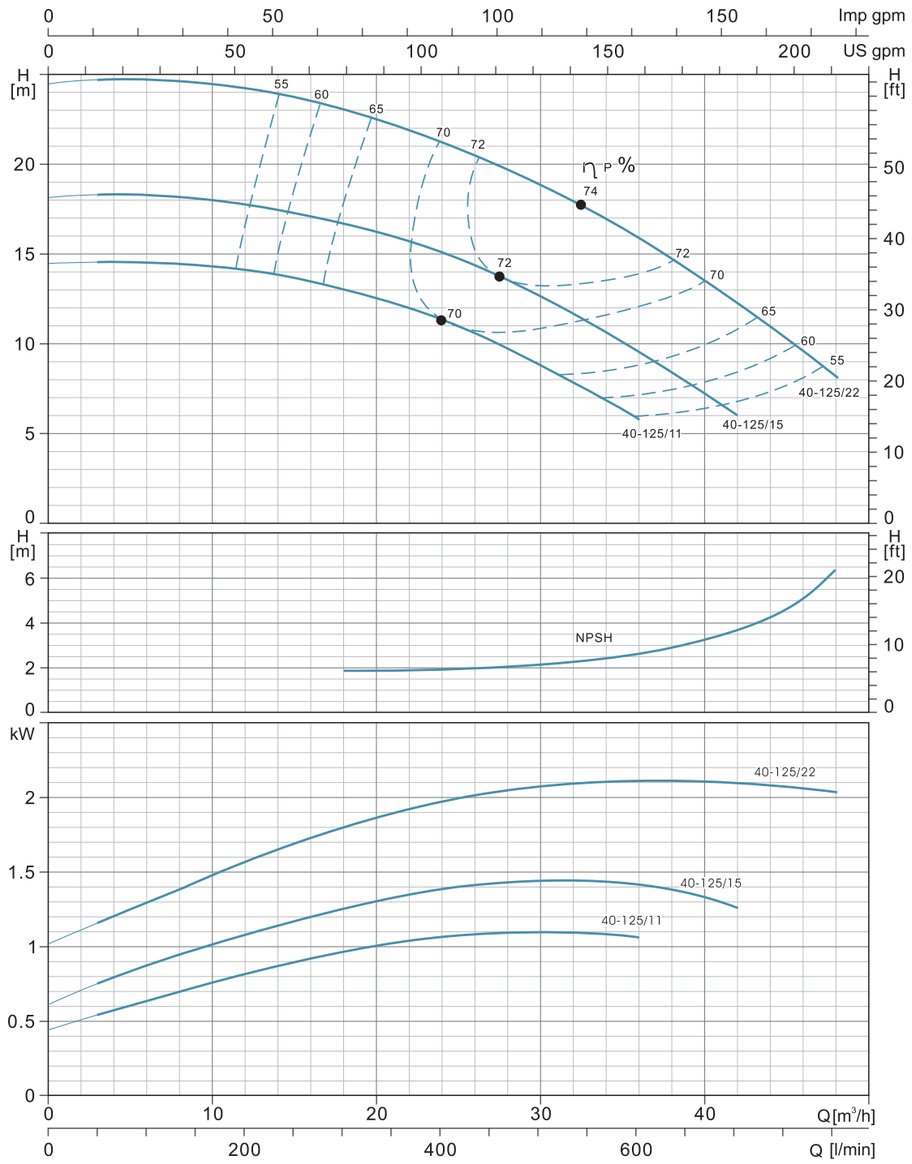
Hydraulic Performance Curves

XST32-250	~2900rpm	ISO 9906 Annex A



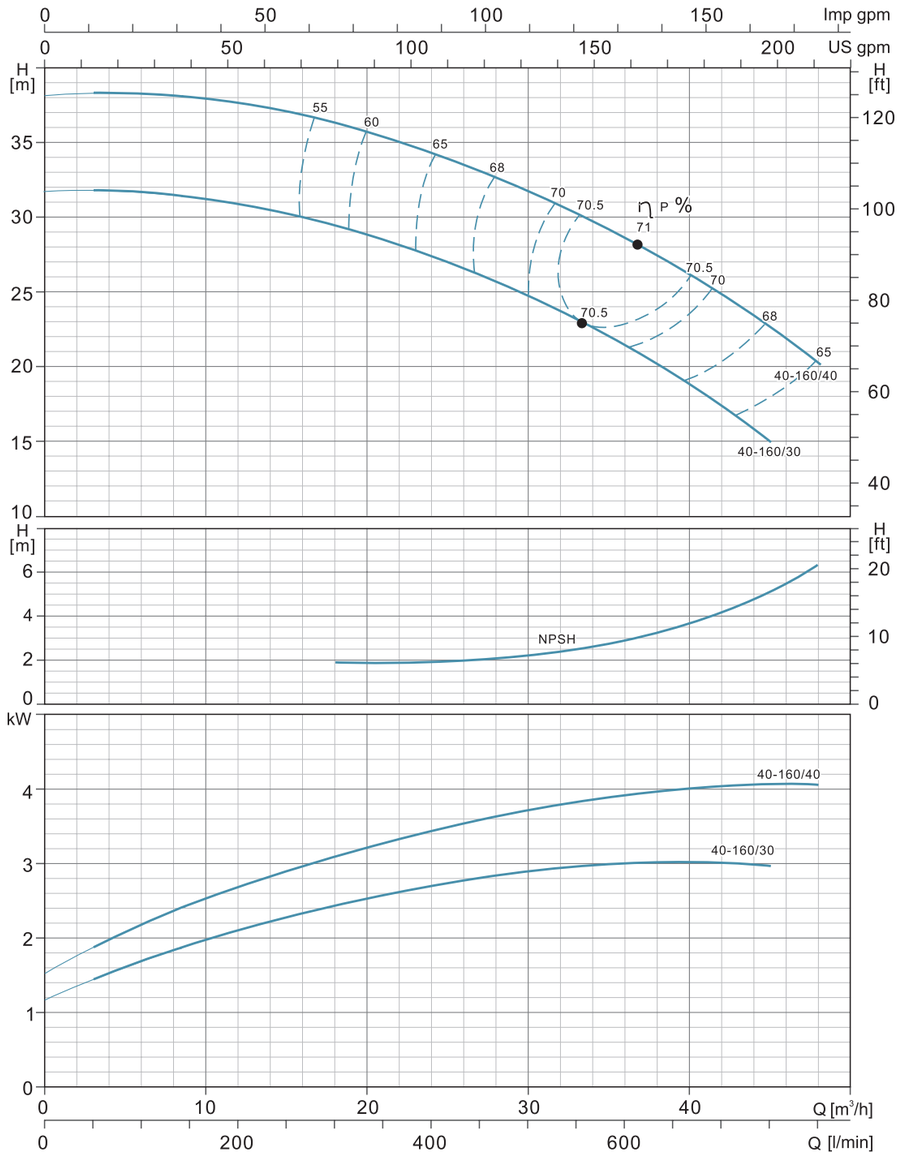
Hydraulic Performance Curves

XST40-125	~2900rpm	ISO 9906 Annex A



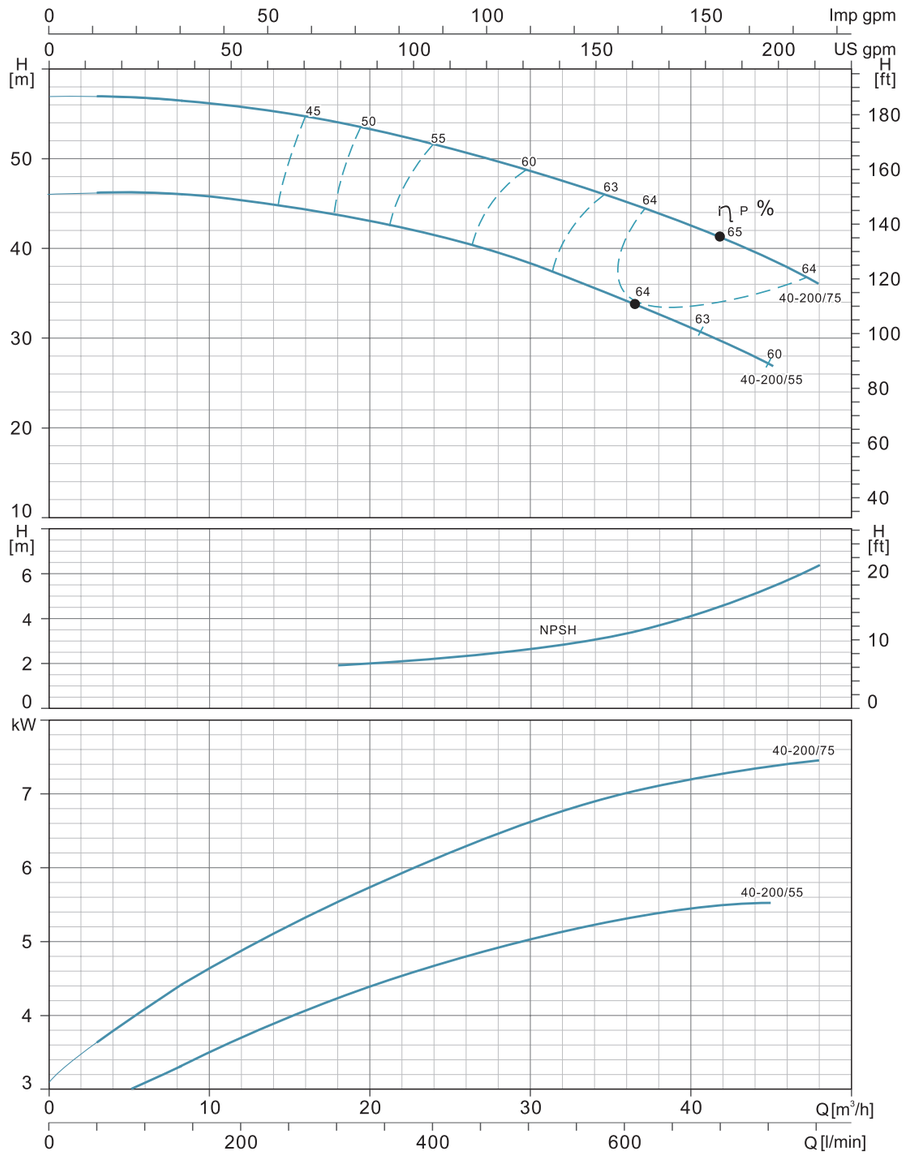
Hydraulic Performance Curves

XST40-160	~2900rpm	ISO 9906 Annex A



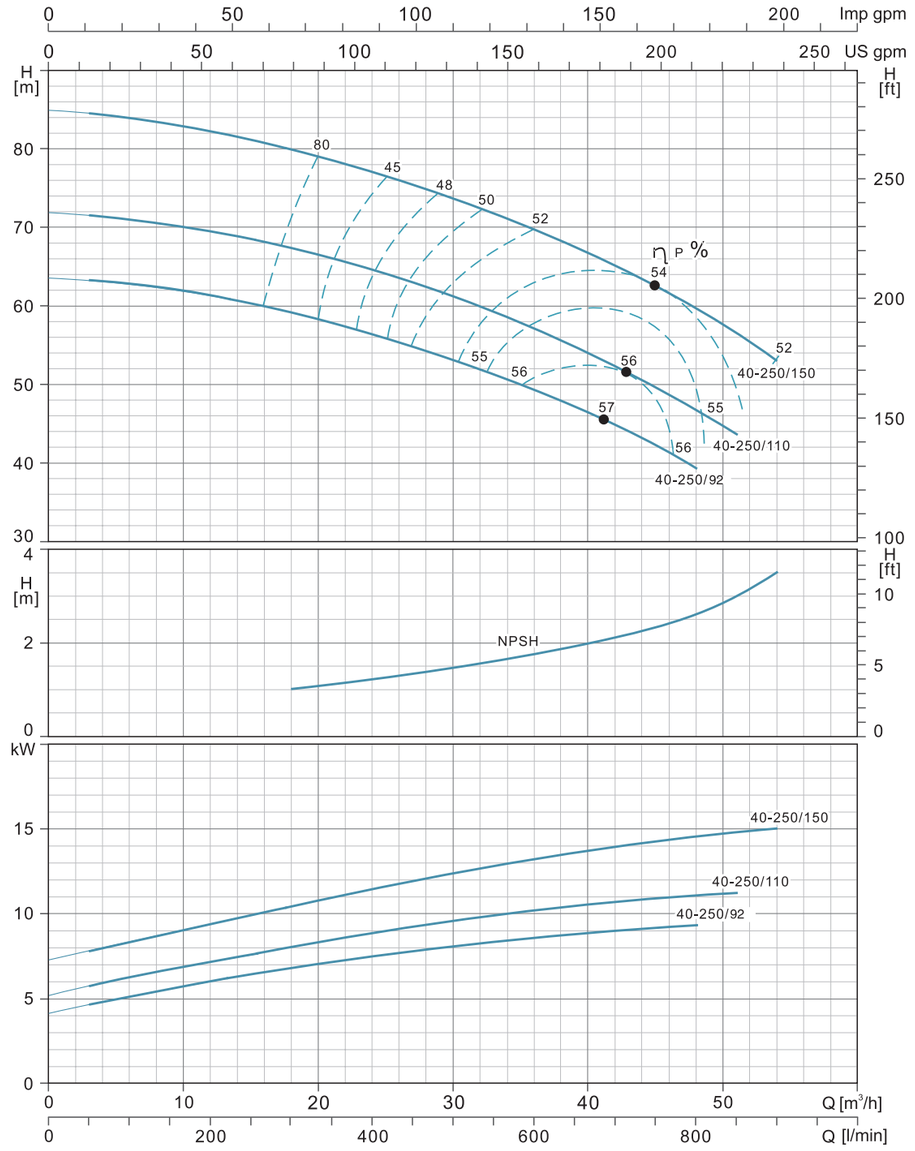
Hydraulic Performance Curves

XST40-200	~2900rpm	ISO 9906 Annex A



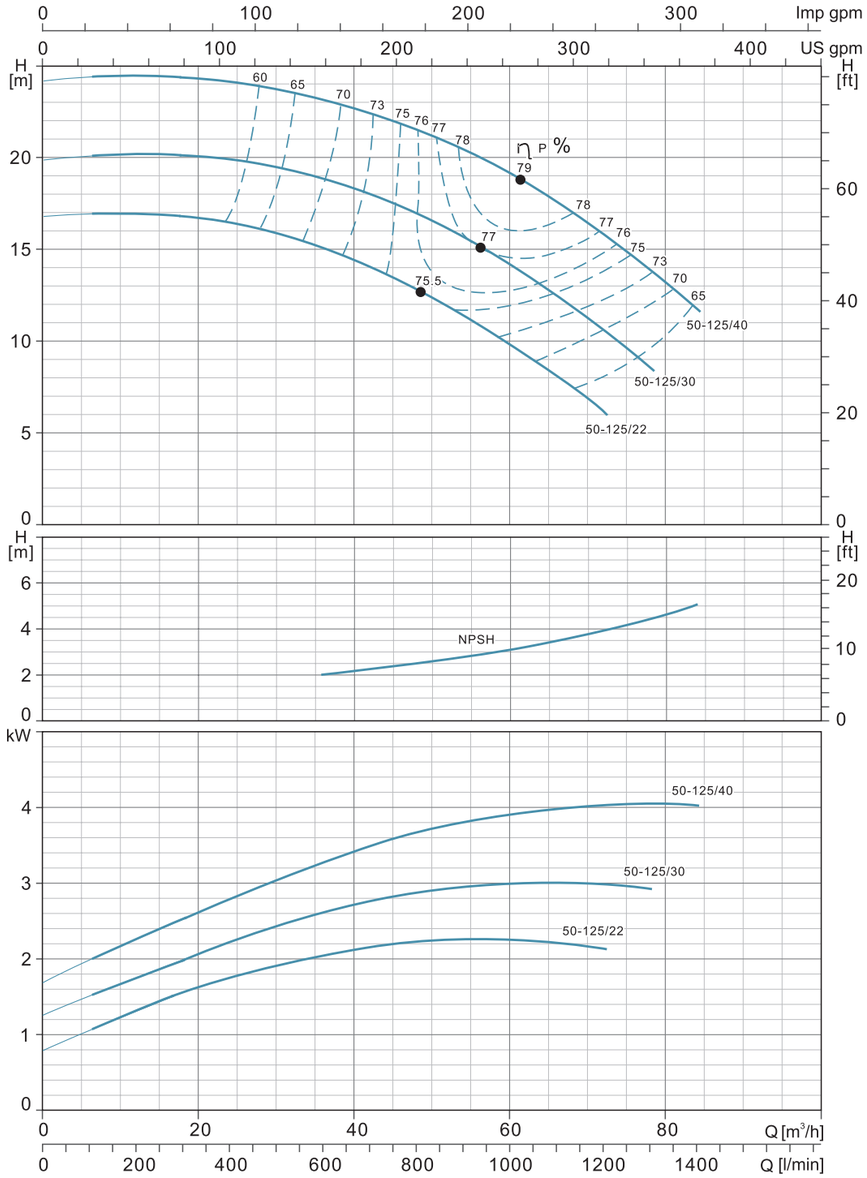
Hydraulic Performance Curves

XST40–250	~2900rpm	ISO 9906 Annex A



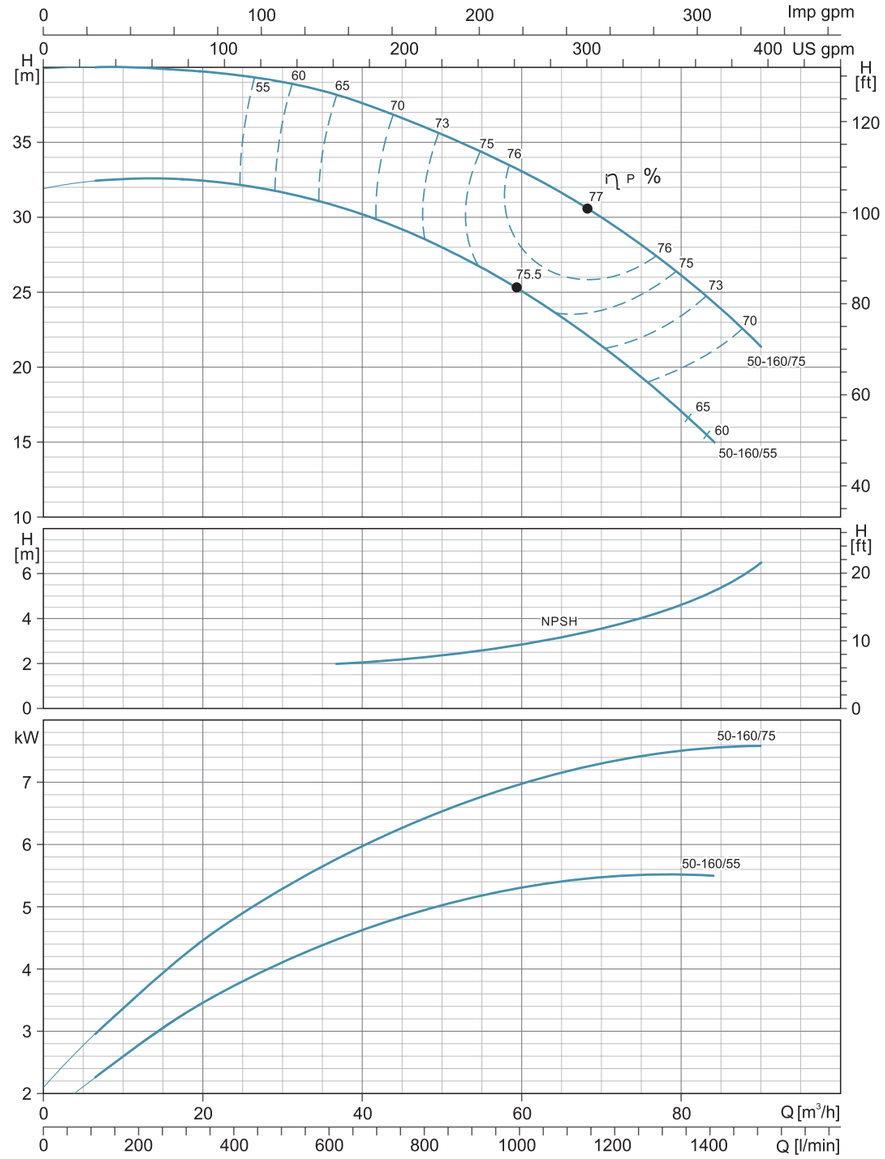
Hydraulic Performance Curves

XST50-125	~2900rpm	ISO 9906 Annex A



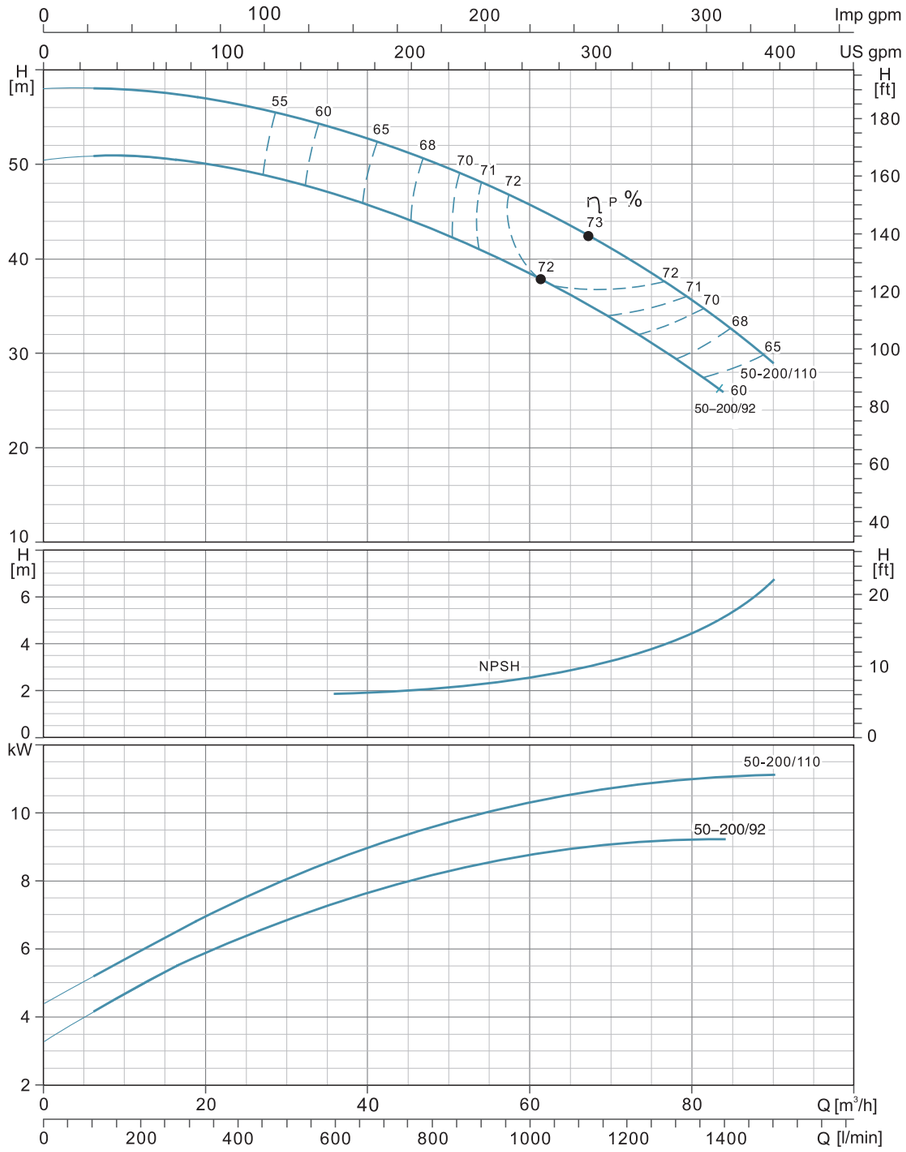
Hydraulic Performance Curves

XST50-160	~2900rpm	ISO 9906 Annex A



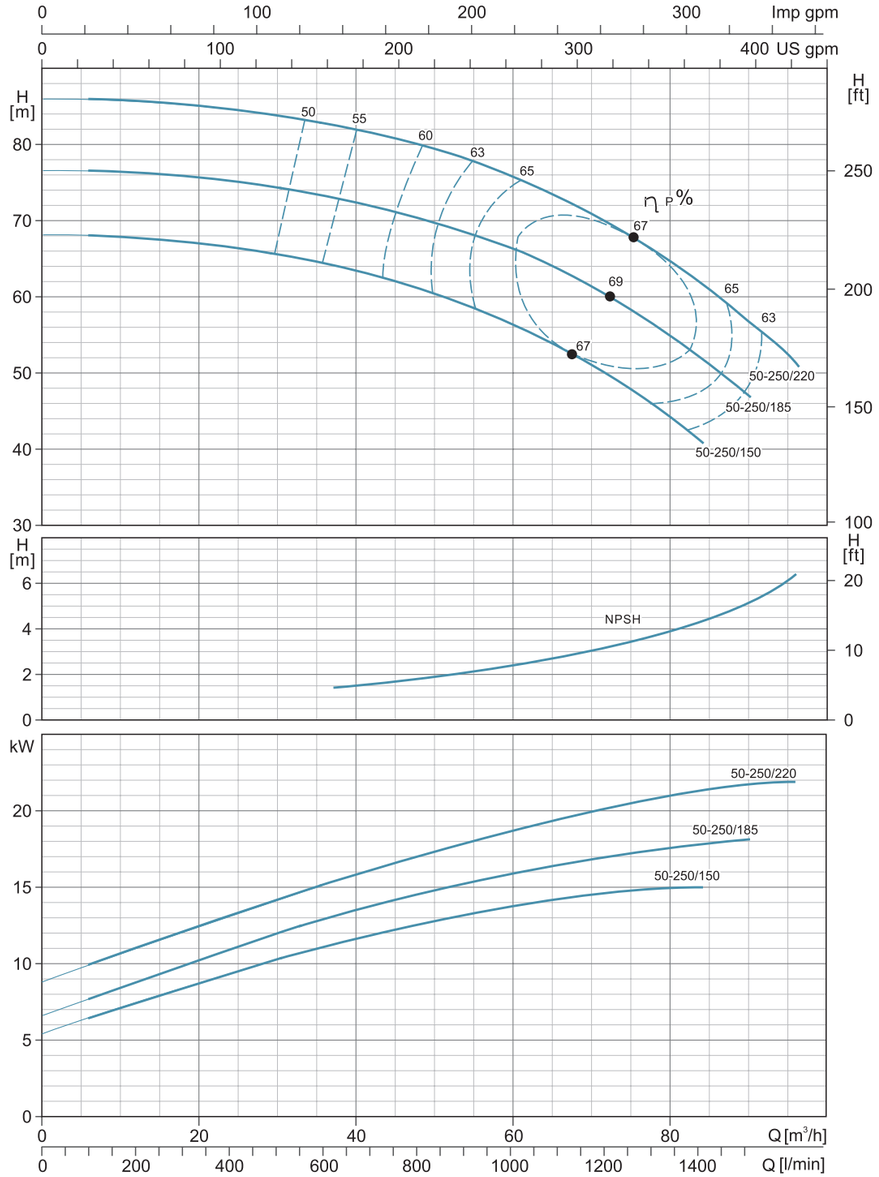
Hydraulic Performance Curves

XST50–200	~2900rpm	ISO 9906 Annex A



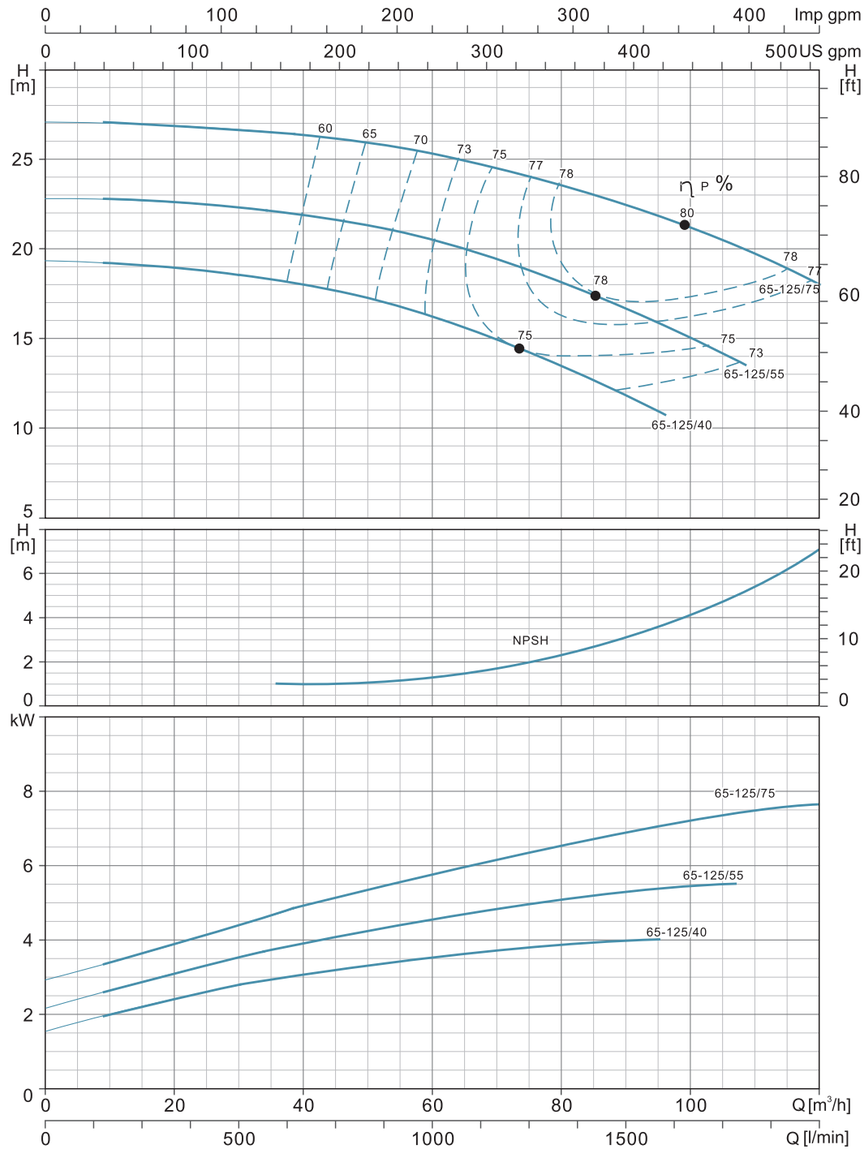
Hydraulic Performance Curves

XST50-250	~2900rpm	ISO 9906 Annex A



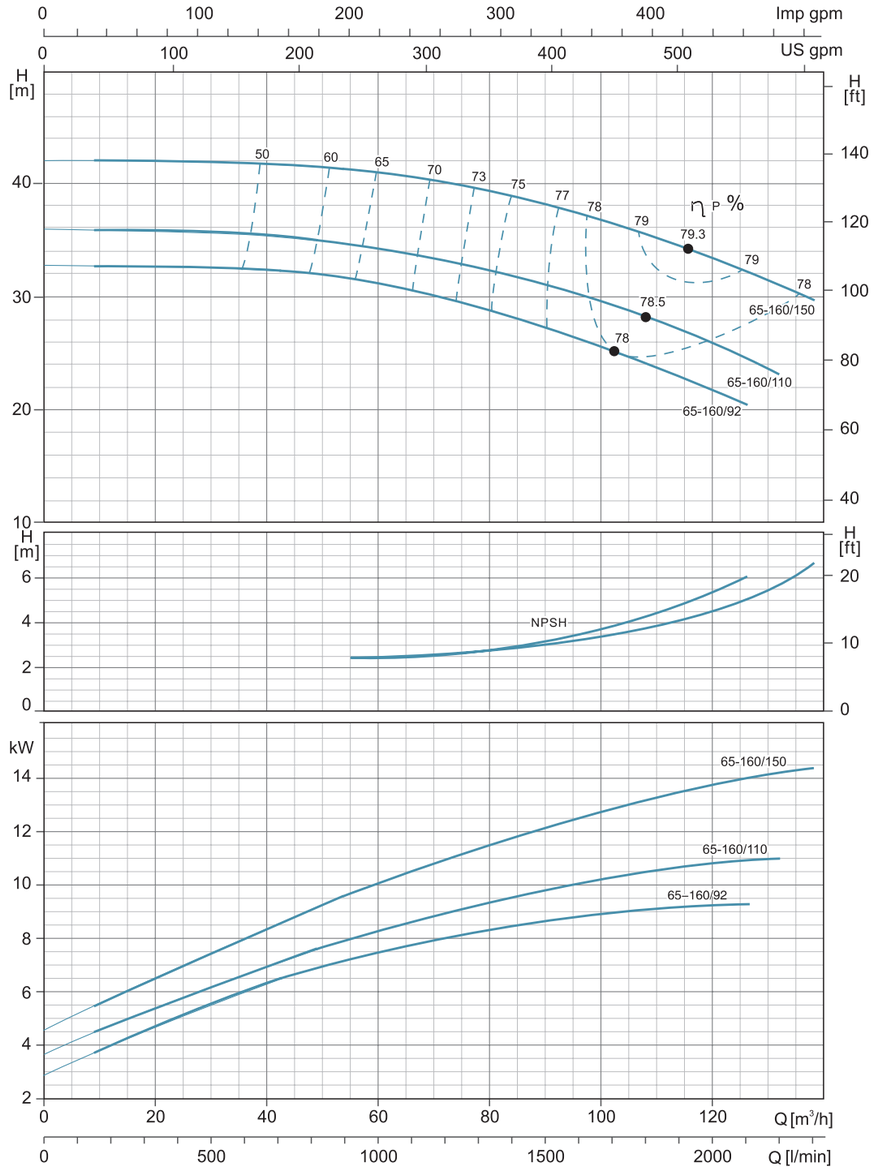
Hydraulic Performance Curves

XST65-125	~2900rpm	ISO 9906 Annex A



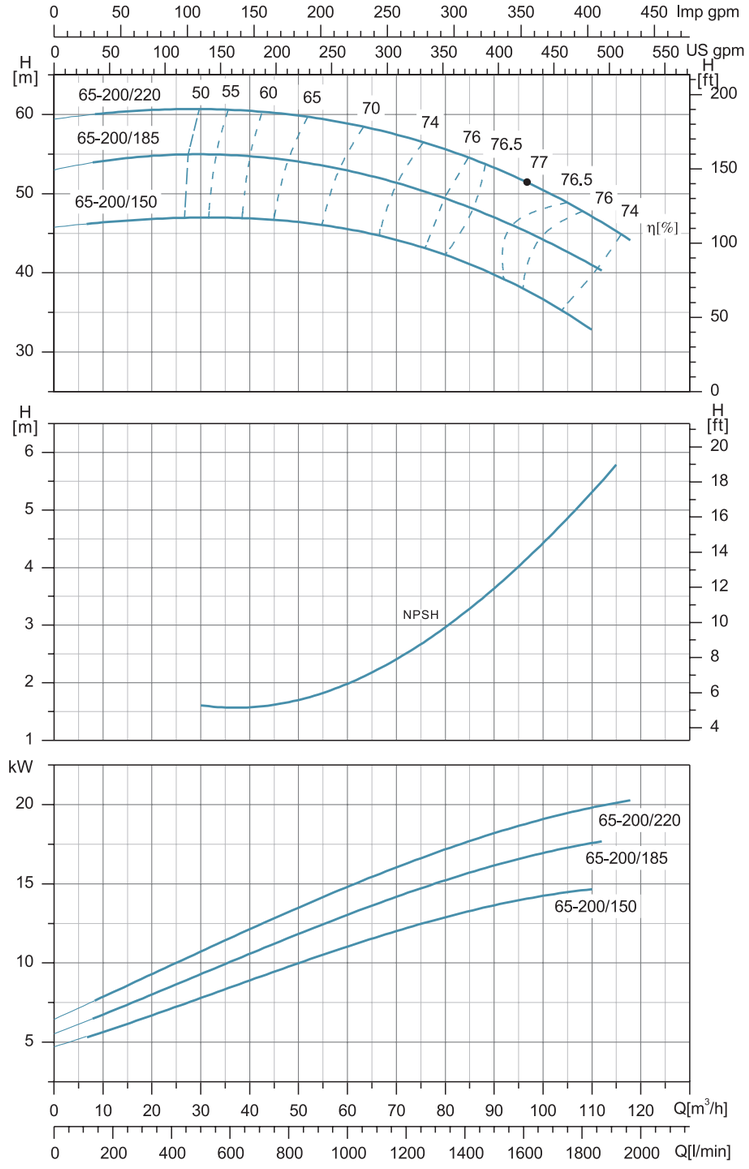
Hydraulic Performance Curves

XST65-160	~2900rpm	ISO 9906 Annex A



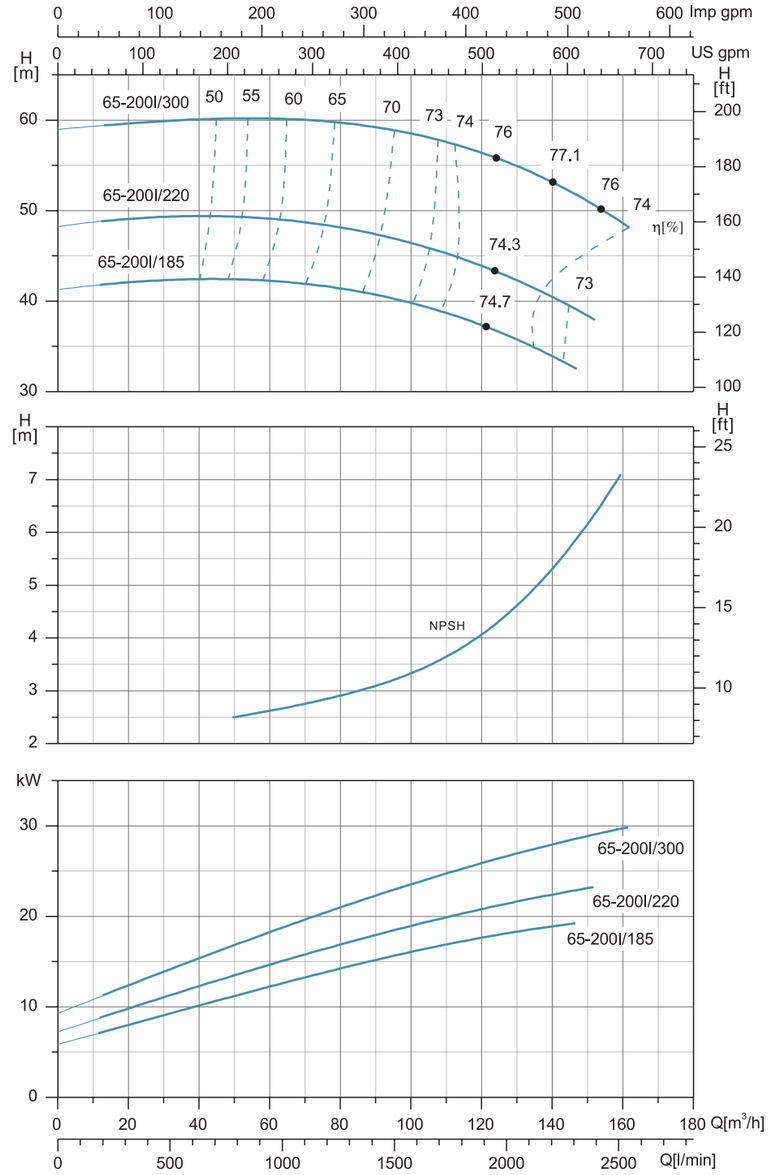
Hydraulic Performance Curves

XST65-200	~2900rpm	ISO 9906 Annex A



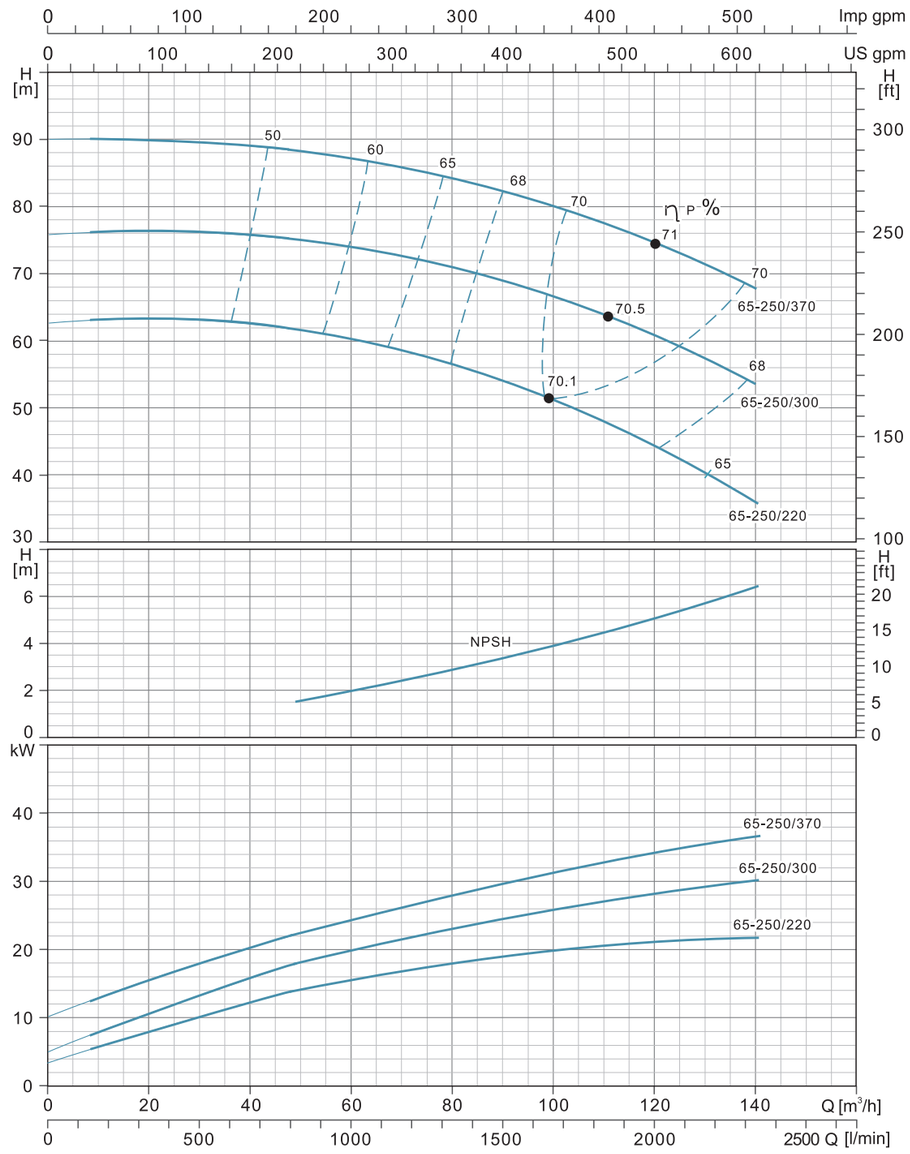
Hydraulic Performance Curves

XST65–200I	~2900rpm	ISO 9906 Annex A



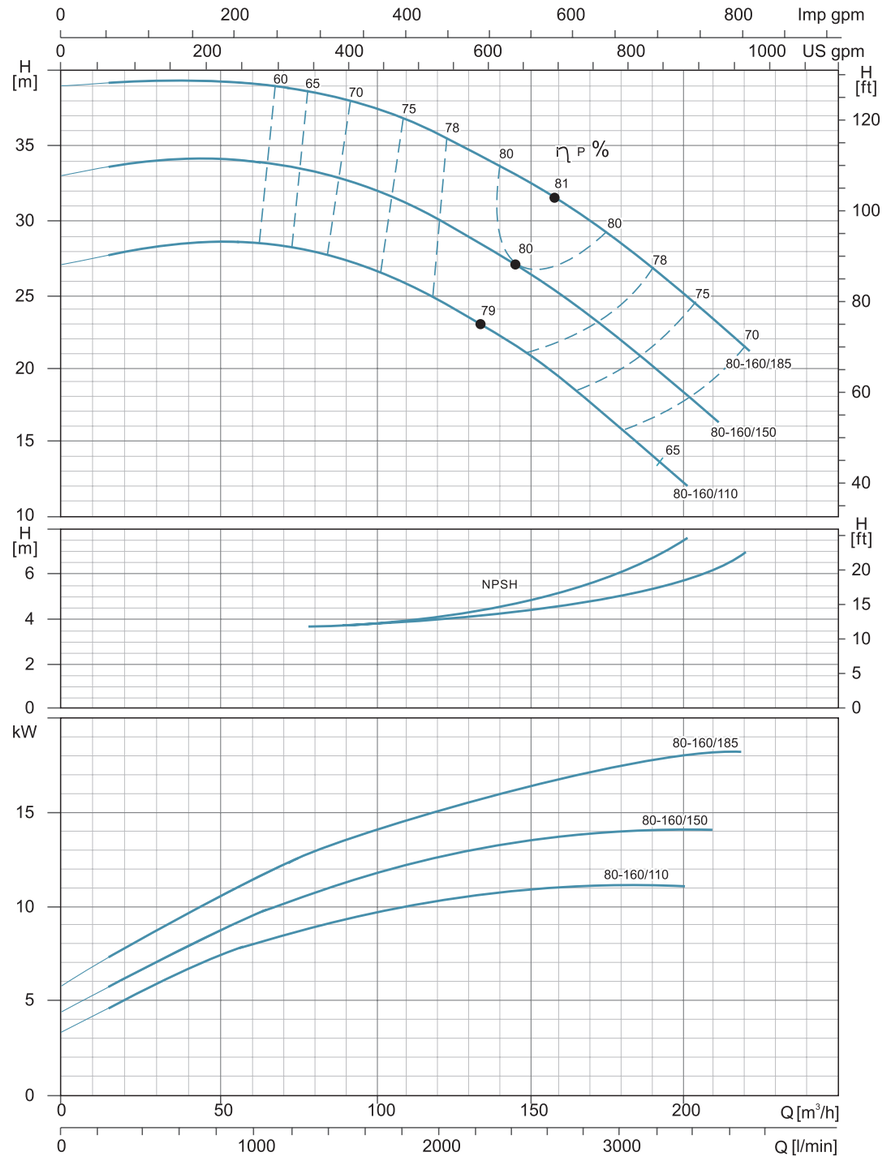
Hydraulic Performance Curves

XST65–250	~2900rpm	ISO 9906 Annex A



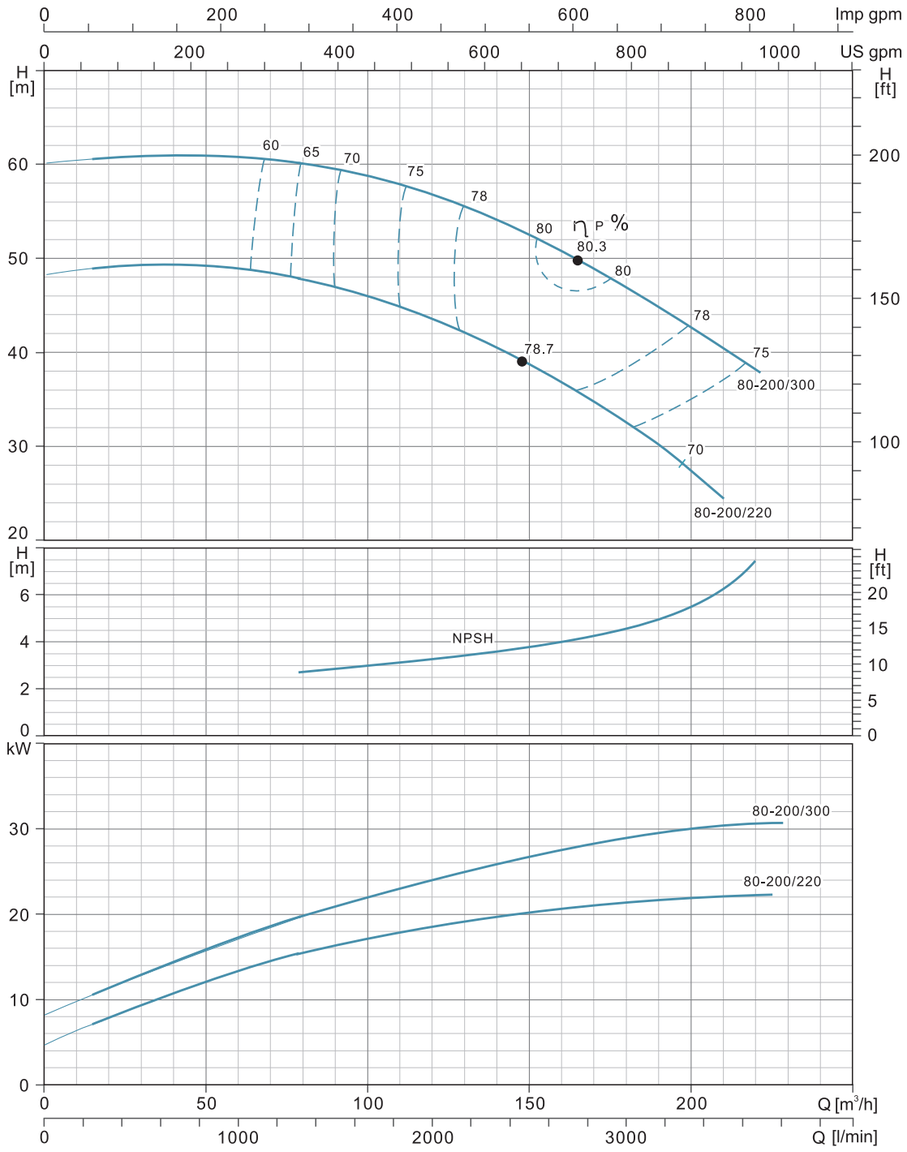
Hydraulic Performance Curves

XST80-160	~2900rpm	ISO 9906 Annex A



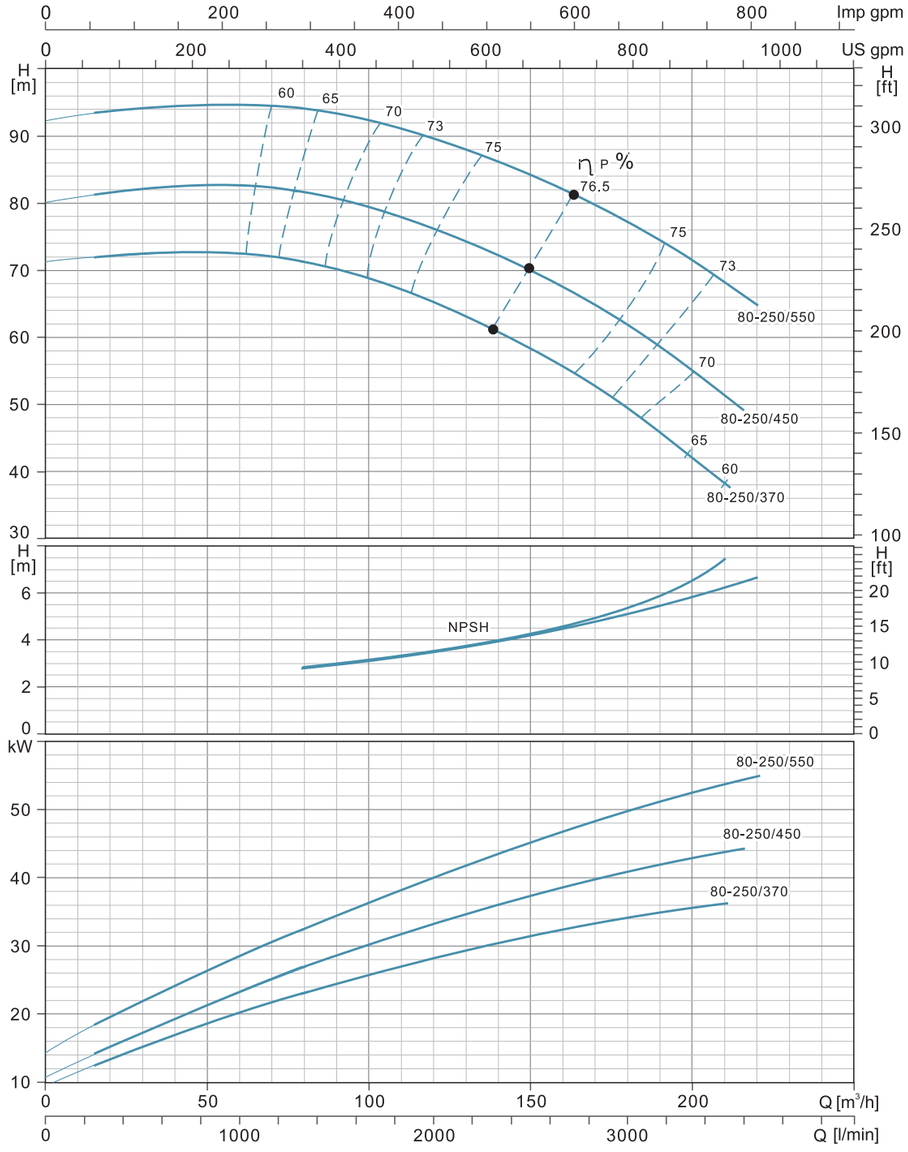
Hydraulic Performance Curves

XST80–200	~2900rpm	ISO 9906 Annex A



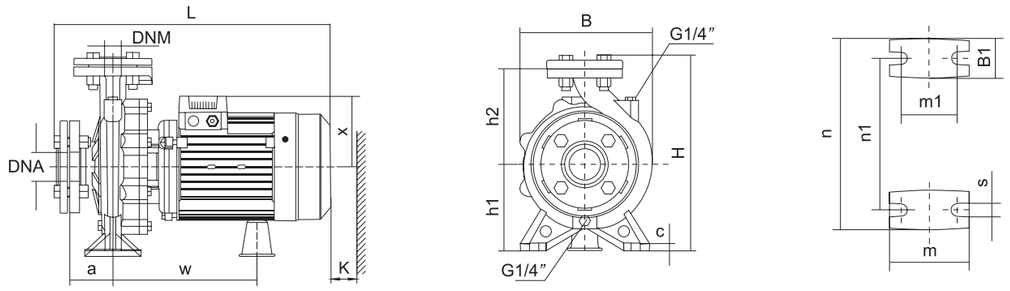
Hydraulic Performance Curves

XST80–250	~2900rpm	ISO 9906 Annex A



Installation Sketch

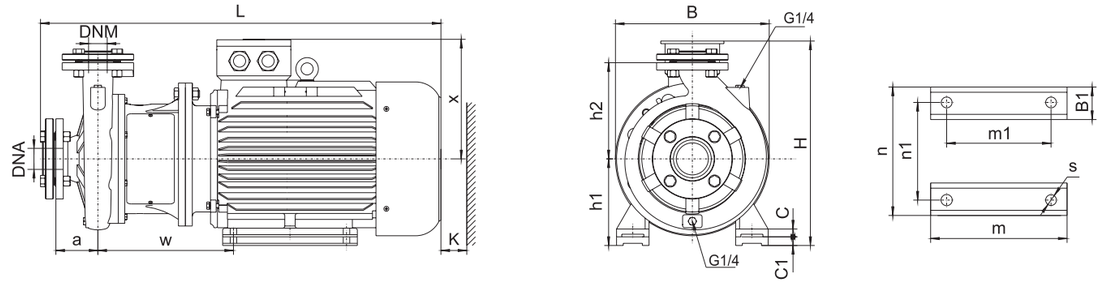
up to 7.5 kW included



PUMP TYPE	DNM	DNA	a	h2	w	x	B1	c	h1	m	m1	n	n1	s	B	H	L	K
32-125/7	32	50	80	223	113	140	48	12	112	100	70	190	140	17	192	281	427	85
32-125/11																		
32-160/15				231	122	160	50	16	132			240	190	14	240	320	430	95
32-160/22																		
32-160/30				226	141												496	
32-200/30				258	127	180	48	12				240	190	17	248	369	490	
32-200/40																		
32-250/55			155	264	180	198	60	15	160			272	212		308	386	610	60
32-250/75																	640	
40-125/11	40	65	80	255	127	140	45	12	112	100	70	210	160	17	218	282	489	95
40-125/15																		
40-125/22																		
40-160/30				238	127	168	48		132			240	190		249	330	494	105
40-160/40																		
40-200/55			100	259	180	180	50		160			264	212		275	370	553	
40-200/75																	583	
50-125/22	50	65	100	262	127	160	50	12	132	100	70	240	190		243	322	518	110
50-125/30																		
50-125/40																		
50-160/55				262	180	180	52		160			264	212		272	370	556	
50-160/75																	586	
65-125/40	65	80	100	265	180	180	68	14	160	125	95	280	212		283	372	564	
65-125/55																		
65-125/75																	594	

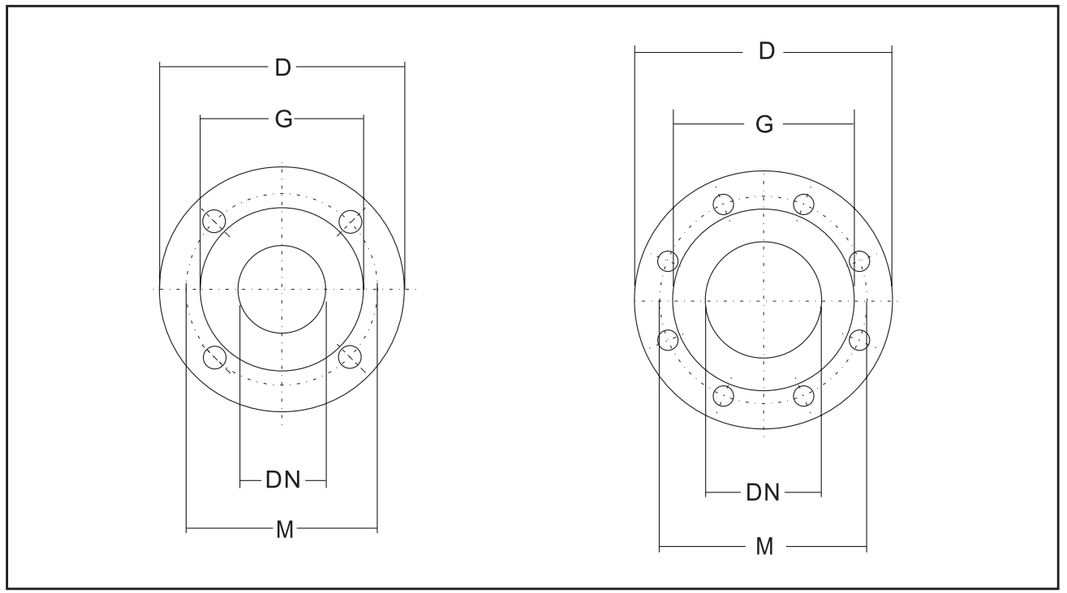
Installation Sketch

From 7.5 kW



PUMP TYPE	DNM	DNA	a	h2	w	x	B1	C	C1	h1	m	m1	n	n1	s	B	H	L	K
40-250/92	40	65	100	310	260	225	65	20	20	180	260	210	320	254	14.5	350	440	845	110
40-250/110																			
40-250/150																			
50-200/992	50	65	100	310	260	200	65	20	-	160	260	210	320	254		350	420	845	120
50-200/110																			
50-250/150						225			20	180							440	895	110
50-250/185											304	254							
50-250/220				323	275		70	25	-		311	241	355	279			455	925	
65-160/92	65	80	100	310	260	200	65	20	-	160	260	210	320	254	14.5	350	420	845	125
65-160/110																			
65-160/150																			
65-200/150						225			20	180							440	895	
65-200/185											304	254							
65-200/220				323	275		70	22	-		311	241	355	279		355	455	925	
65-200I/185				337	260		65	20	20		304	254	320	254			440	920	
65-200I/220				350	275		70	22	-		311	241	355	279	14.5		455	950	
65-200I/300				362	305			25			369	305	395	318	16.5		505	1020	
65-250/220				353	275	250		22			311	241	355	279	14.5		455	956	
65-250/300				365	305			25		200	369	305	395	318	16.5	400	505	1026	
65-250/370																			
80/160-110	80	100	125	315	260	225	65	20	-	160	260	210	320	254	14.5	350	420	870	130
80-160/150																			
50-160/185																		926	
80-200/220				352	275	250	70	22		180	311	241	355	279		355	461	978	
80-200/300				365	305			25		200	369	305	395	318	16.5	400	505	1050	
80-250/370																	508		
80-150/450				381	330	280	75	28		225	404	311	435	356	18.5	450	555	1098	120
80-250/550				433	365		80	30	30	280	450	349	490	406	24	550	646	1192	

Flange Dimensions



PN16 FLANGES

DN	D	M	G	HOLES N°	HOLES ∅	MAX. THICKNESS
32	140	100	78	4	18	18
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20

PN16 FLANGES

DN	D	M	G	HOLES N°	HOLES ∅	MAX. THICKNESS
80	200	160	138	8	18	22
100	220	180	158	8	18	22

Application

- It is widely used for heating ventilating and air conditioning (HVAC) circulation, pressure boosting of hot water in family, homes powered by solar energy, industrial auxiliary equipment cold and hot water circulation and so forth
- Water circulation for the central and district heating system
- Domestic hot water circulation

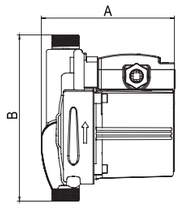
Pump

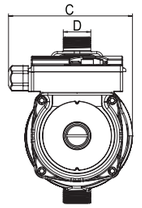
- Automatic pressure boosting
- Anti-rust cast iron pump body
- Noryl impeller with heat resistance up to 150℃
- 99% alumina ceramic shaft
- Liquid temperature: 2℃ - 60℃

Motor

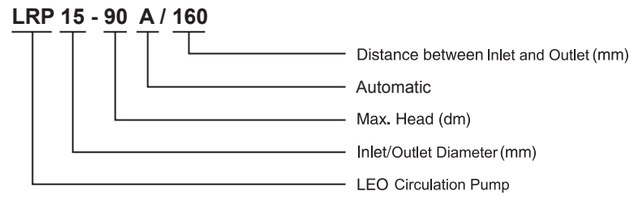
- Insulation class: H
- Protection class: IP42
- 99% alumina ceramic bearing
- Copper winding

Dimension Drawing





Identification Codes



MODEL	A (mm)	B (mm)	C (mm)	D
LRP15-90A/160	129	160	120	G 3/4