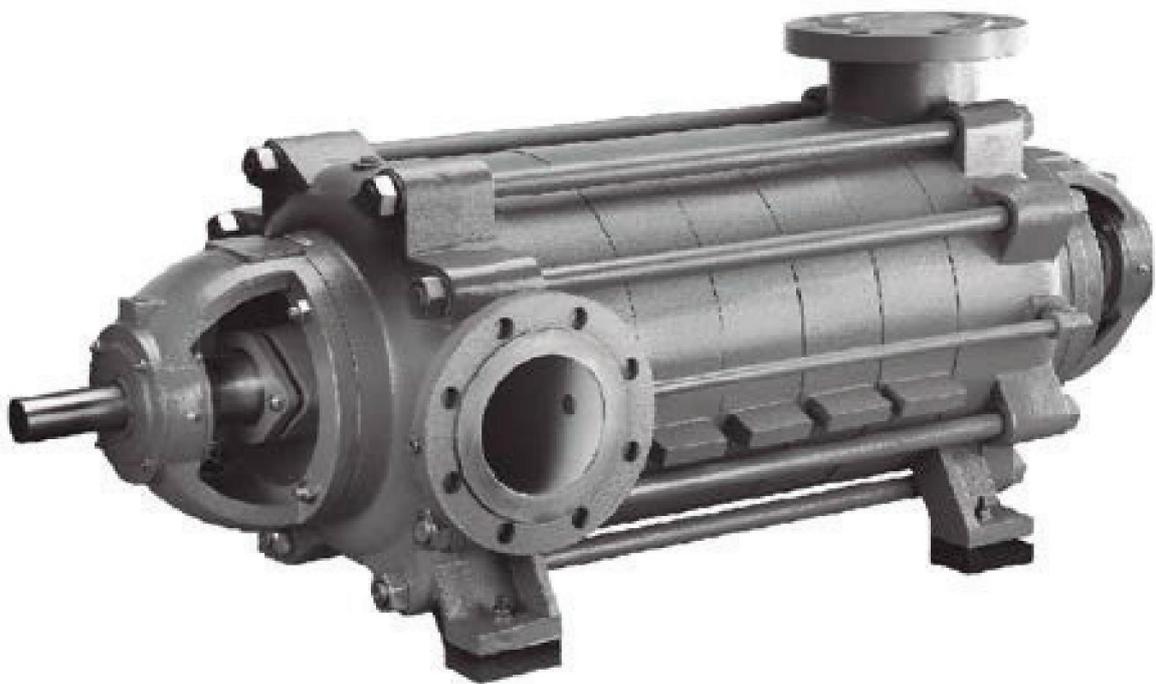


hydroo®

HHP SERIES

**Horizontal Multistage
Pump**





PRESENTATION

Hydroo Pump Industries SL is an enterprise specialised in the research, development and large-scale production of Stainless Steel centrifugal pumps. We have a vertical integration of the production processes, standing out stamping, welding and motor wiring in 6 value centers and production units. All of them with a high performance management on pump engineering and production quality.

HYDROO has set up a wide range of pumping solutions for many applications as building services, industry, irrigation and industrial process. Customers enjoy of the highest performance in booster sets and pressurization, fire-fighting sets, pumping of underground water, HVAC, drainage and sewage, utilities, desalination and OEM integrations. Versions in 50 Hz and 60 Hz are available, as well as any modification on materials, on request.

Global water challenges require excellence in pumping technologies and close cooperation between pump designers,

manufacturers and pump engineers. In order to better meet the customers' needs and requirements our company is facing an expansion of its operations worldwide, providing timely and effective services in more than 70 countries. With tight relationships in many regions, we're proud to introduce a new regional value center for Europe. We are based near Barcelona at the Girona industrial area. Hydroo is a trademark to forge excellent and successful business relationships with our value customers by means of an operative assembling unit and an application engineering unit. HYDROO trademark wants to symbolize the firm commitment for a high level service to our value partners.

At Hydroo we bet on a high level service to our value pump partners.

HHP

**Multistage
high pressure
horizontal
pumps**

Applications

**Municipal water supply
& drainage / Small boiler
feed systems / Water
supply for high buildings /
Mining drainage / Seawater
desalination
Gardening irrigation
systems
Firefighting systems / Other
industrial systems**

Description

Horizontal radially split section pumps of modular design.

Bare shaft versions with flexible coupling and standard electric motors.

Technical data

Flow rate: 3.75 ~1020 m³/h

Head: 19 ~1080 m

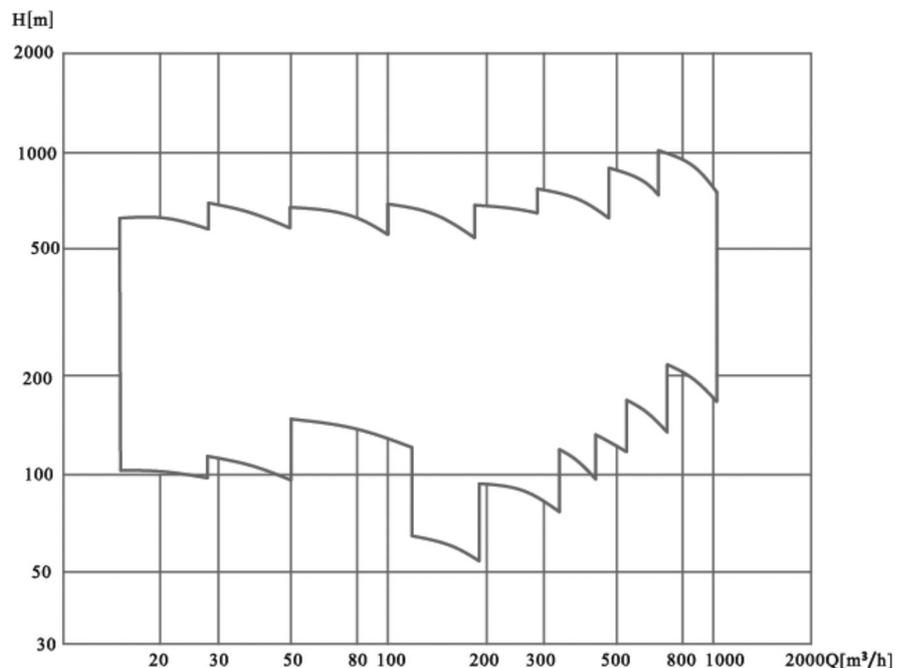
Temperature: max. 80 °C

Standard material

Cast iron / Cast steel / Stainless steel



Performance scope



Horizontal Multistage Centrifugal Pump

Application

- Water Plant
- Pressure Boosting
- Fire Fighting
- Sprinkling and Irrigation
- General Industrial Services
- Mines
- Boiler Feed
- Sea Water



Medium

- Clear water and the liquid which is similar with clear water on the physical and chemical properties.
- Corrosive medium which hasn't the particles such as the trade waste, saltwater, acid water, and sea water etc.
- Corrosive medium which has many solid particles such as the sewage, waster water, water with sand and oxide scale water etc.
- Temperature not exceeds 80°C, Optional for max. 110°C

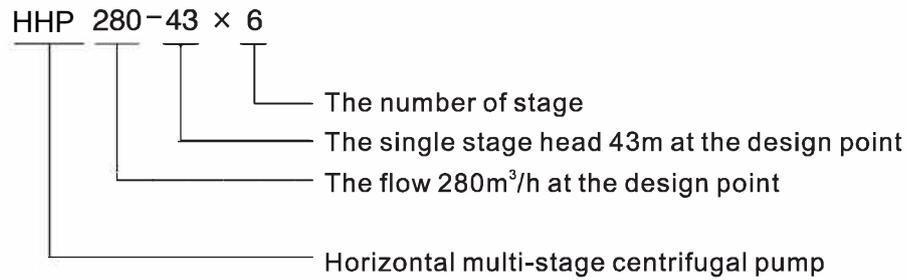
Operating Data

Diameters of inlet and outlet: DN40 to DN300

Capacity: Flowrate range from 3.75m³/h to 1020m³/h

Head range from 19m to 1080m

Type Description



Design

- HHP pump is horizontal, radially split ring section pumps of modular design.
- HHP pump is high efficiency, wide application, safety and reliable running, low noise, easy installation and maintains, and long service life etc.
- NDB Bearing Arrangement with Balance Disk
With a balance disk the axial force is completely compensated, no axial thrust bearing is required. Due to the smaller balancing leakage flow, total efficiency of the pump is higher compared to the balance drum design.
- Investment cost as well as life cycle cost is taken into consideration when designing the best possible pump. An optimized hydraulic design guarantees best efficiency.

Material

Casing:	Cast Iron	Ductile Cast Iron	Cast Steel	Stainless Steel or Duplex S.S
Impeller:	Cast Iron	Bronze	Duplex S.S	Stainless Steel
Shaft:	C-Steel	Cr-Steel	Stainless Steel	

Standard

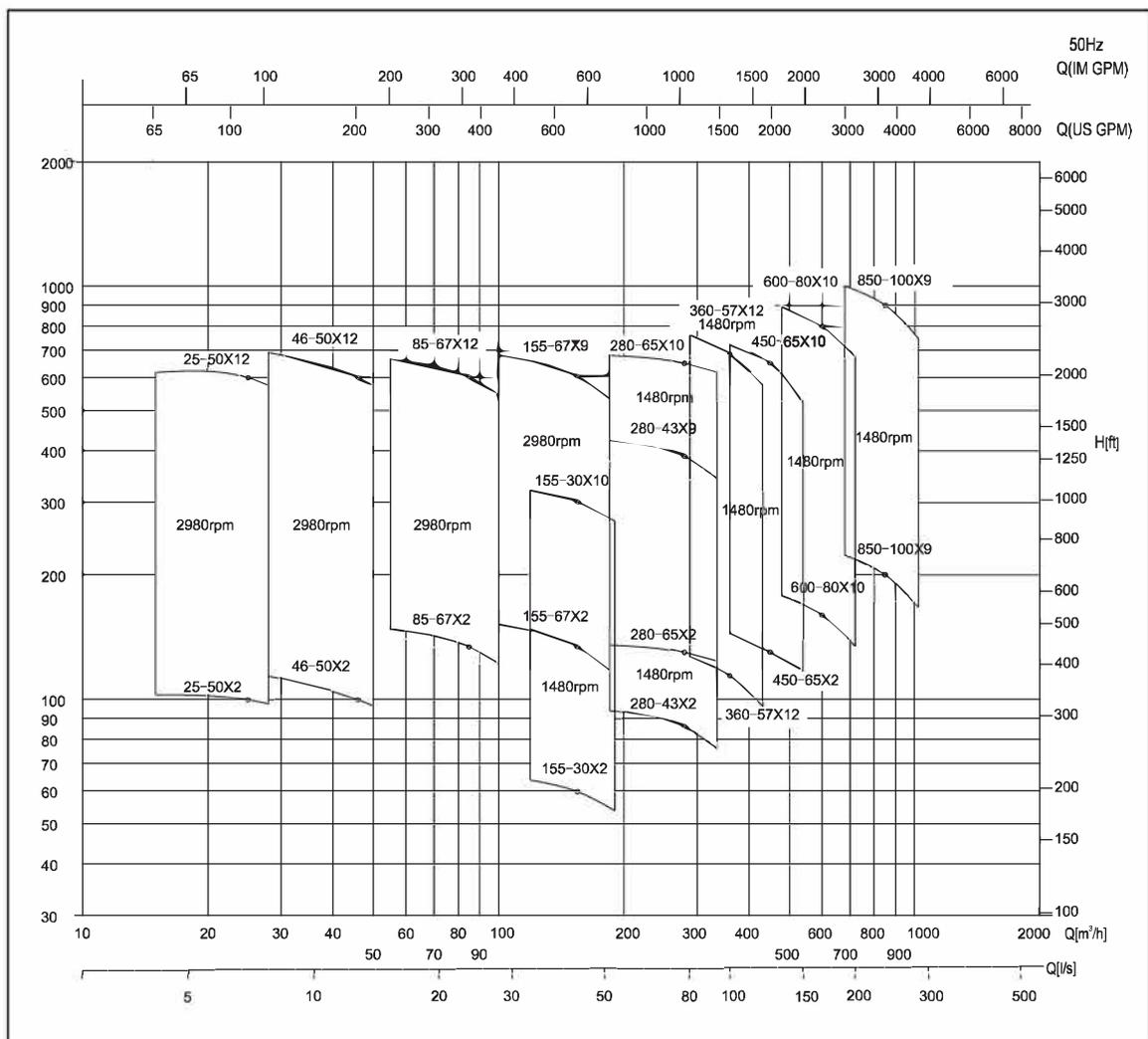
ANSI/API610-2004

ISO9001:2000

Construction Features

- Suction is on the horizontal direction, the discharge is on the vertical direction.
- The rotor assembly: the impeller, shaft sleeve, balance disc etc.
- The mechanical seal or the packing seal is optional.
- Pump is clockwise viewed from the prime mover.
- The pump can be the multi-discharge construction and function according to the customer's requirements.

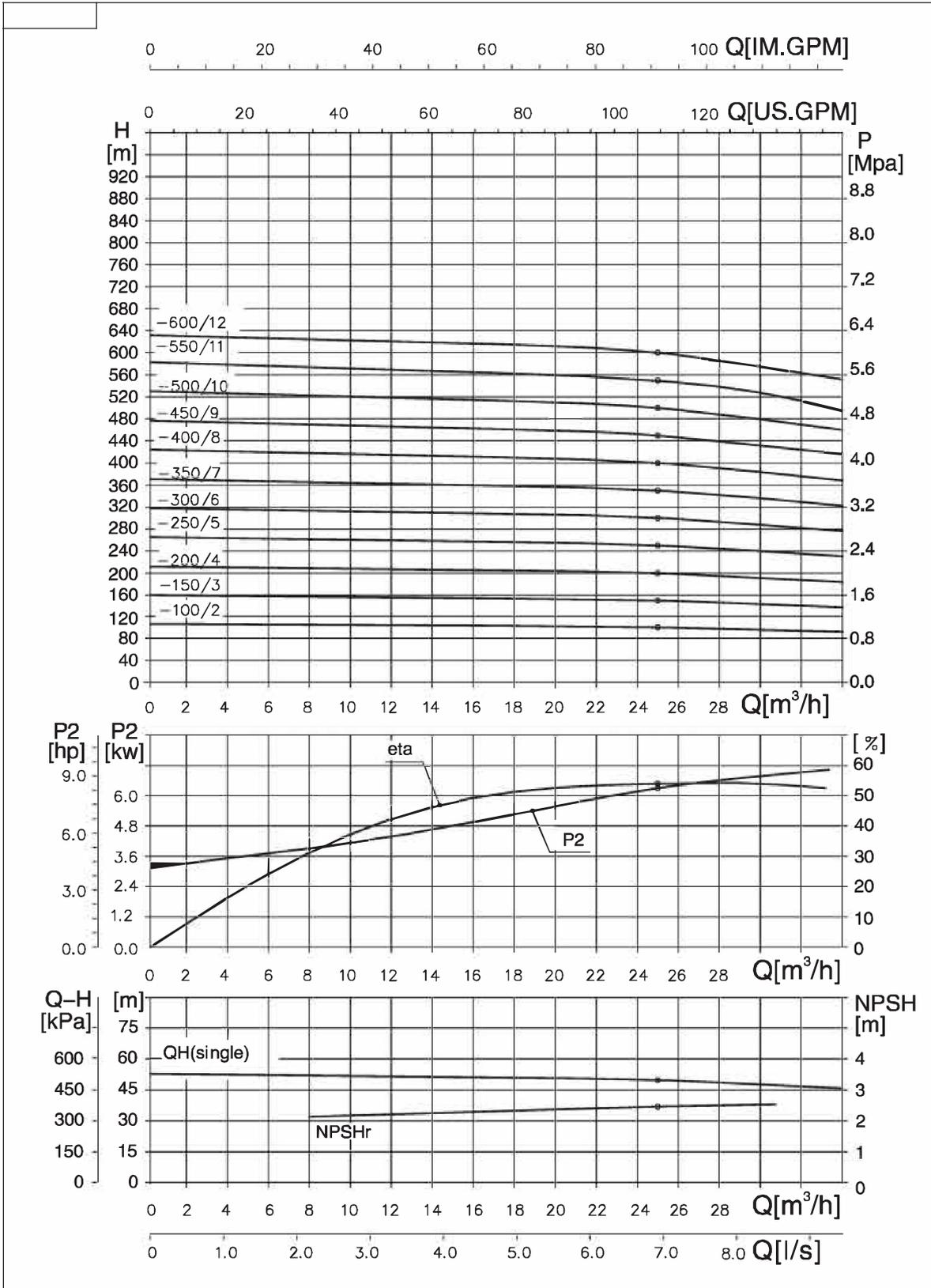
HHP Pump Selection Chart



HHP Performance Curve

HHP25-50

D₂=196mm 50Hz 2980rpm ISO 2548 Annex B



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{mm}^2/\text{s}$.

HHP Performance Curve

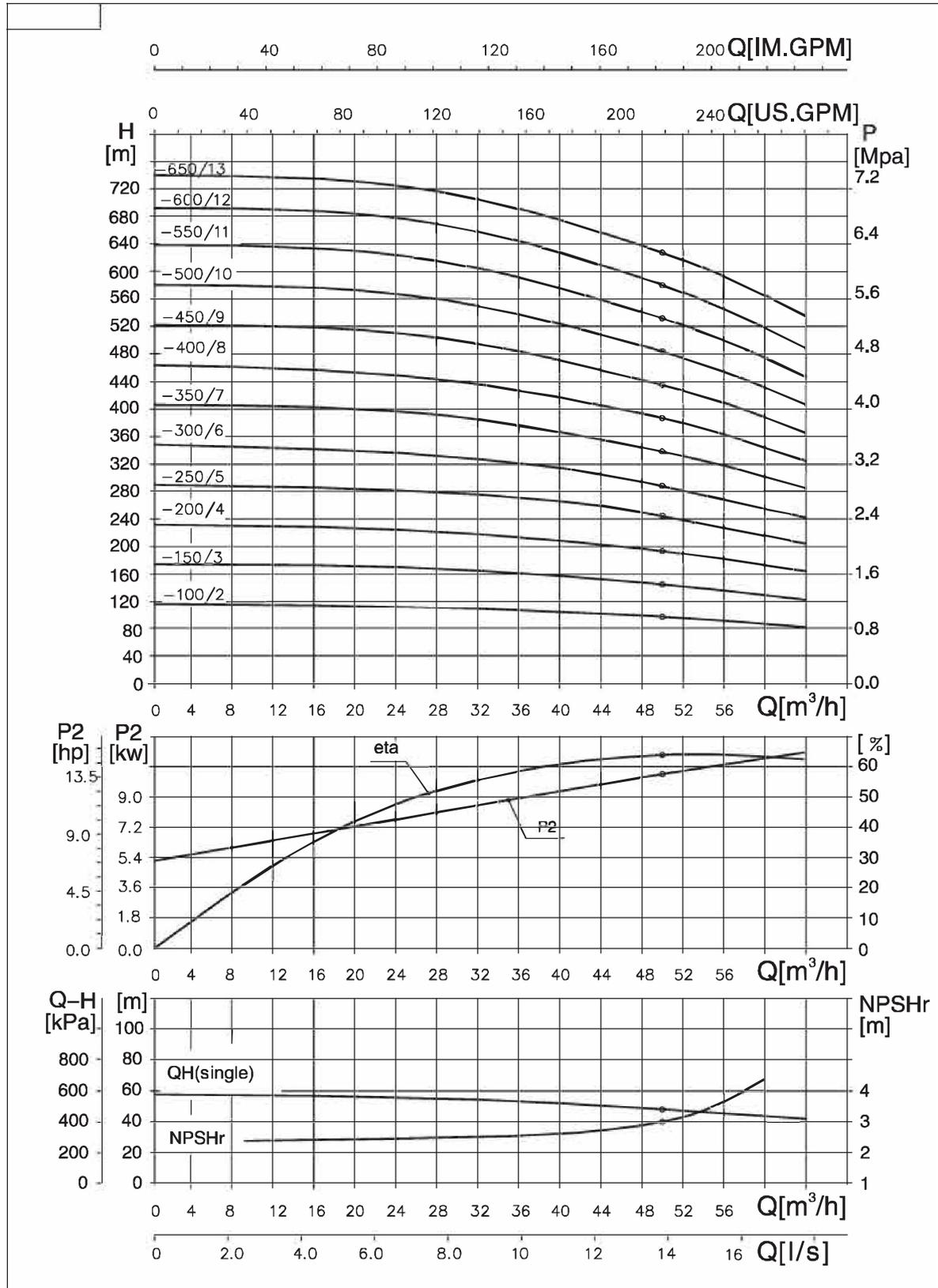
HHP46-50

D₂=208mm

50Hz

2980rpm

ISO 2548 Annex B

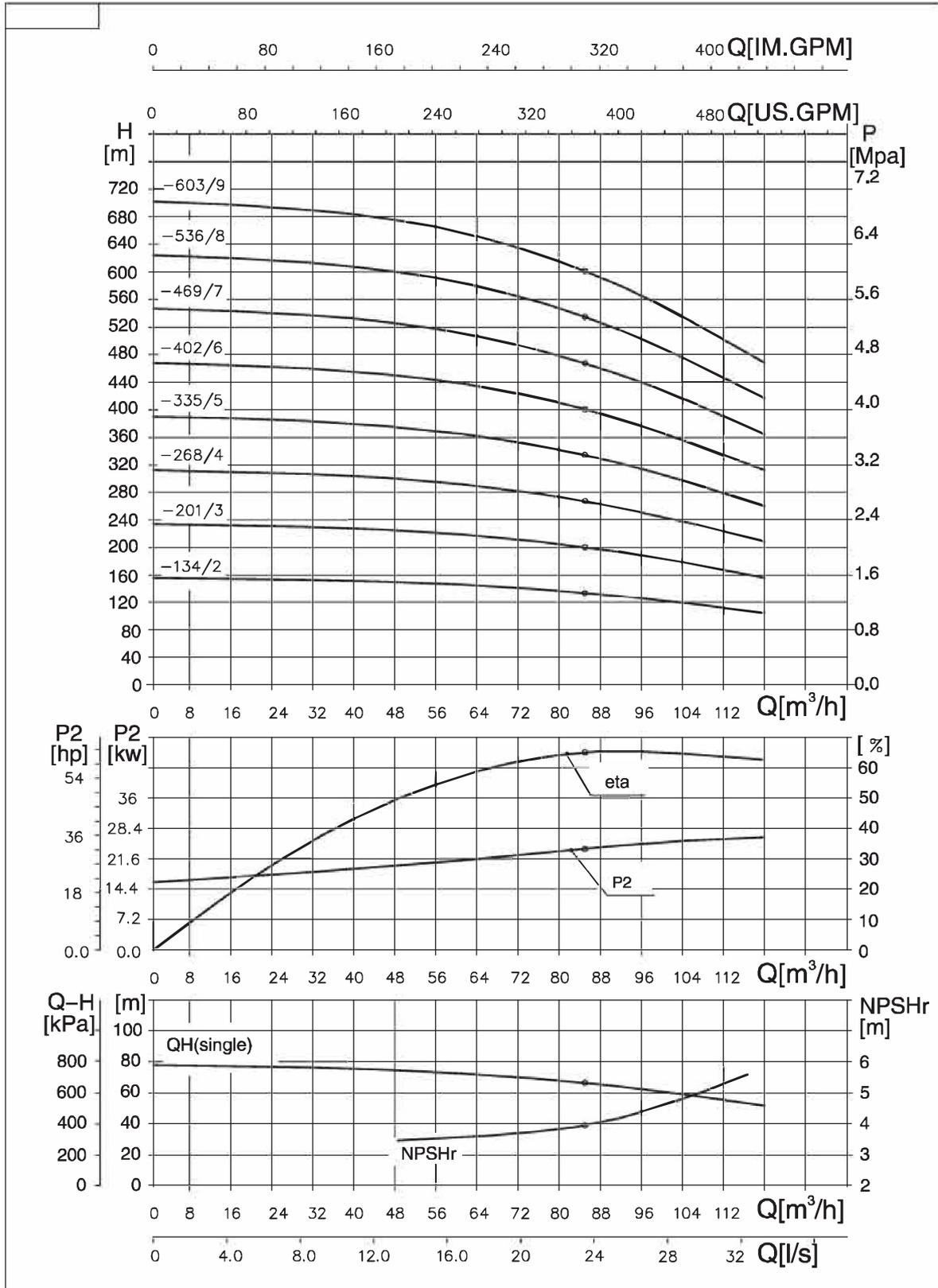


Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{mm}^2/\text{s}$.

HHP Performance Curve

HHP85-67

D₂=235mm 50Hz 2980rpm ISO 2548 Annex B

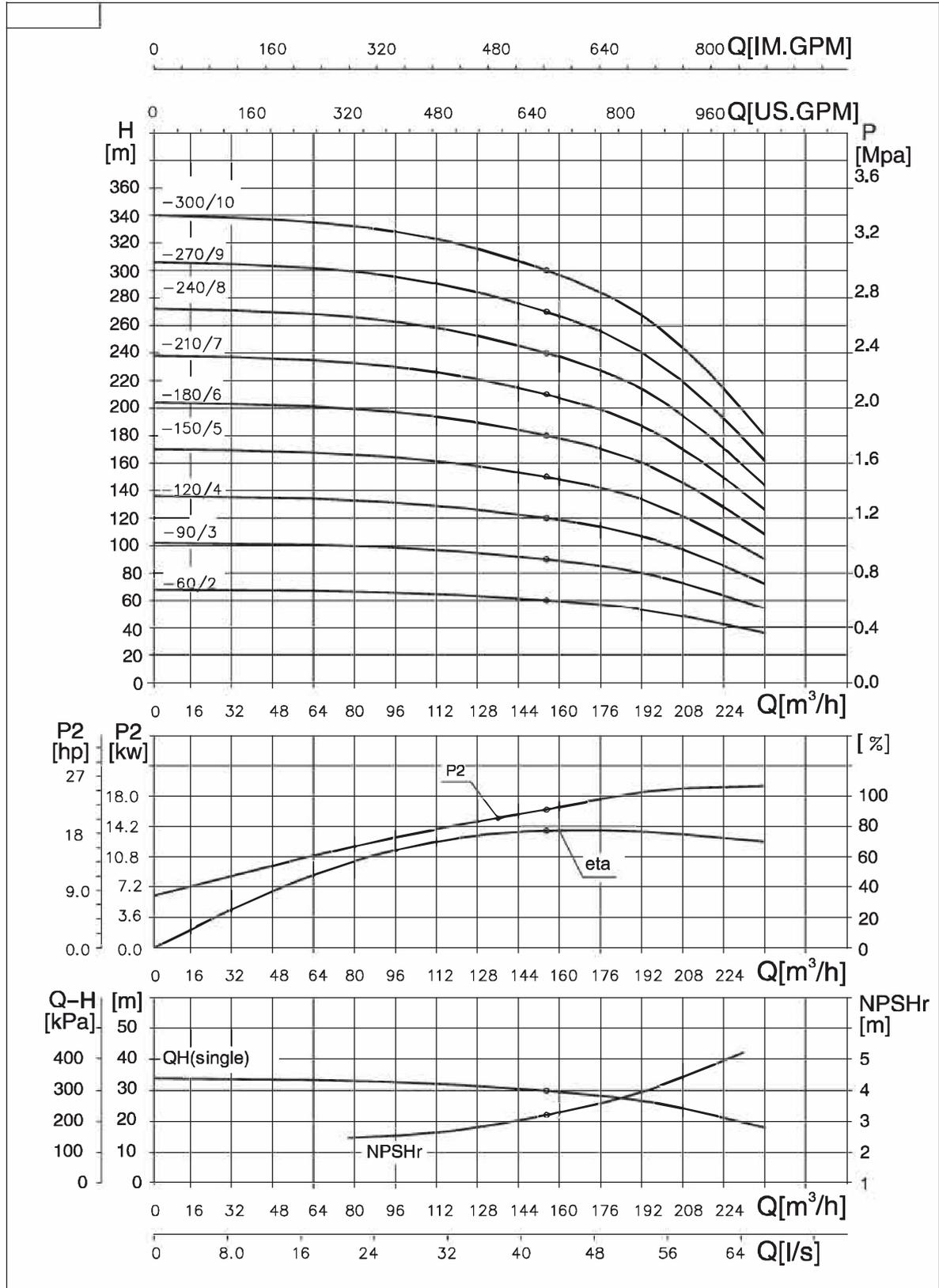


Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

HHP Performance Curve

HHP155-30

D₂=305mm 50Hz 1480rpm ISO 2548 Annex B

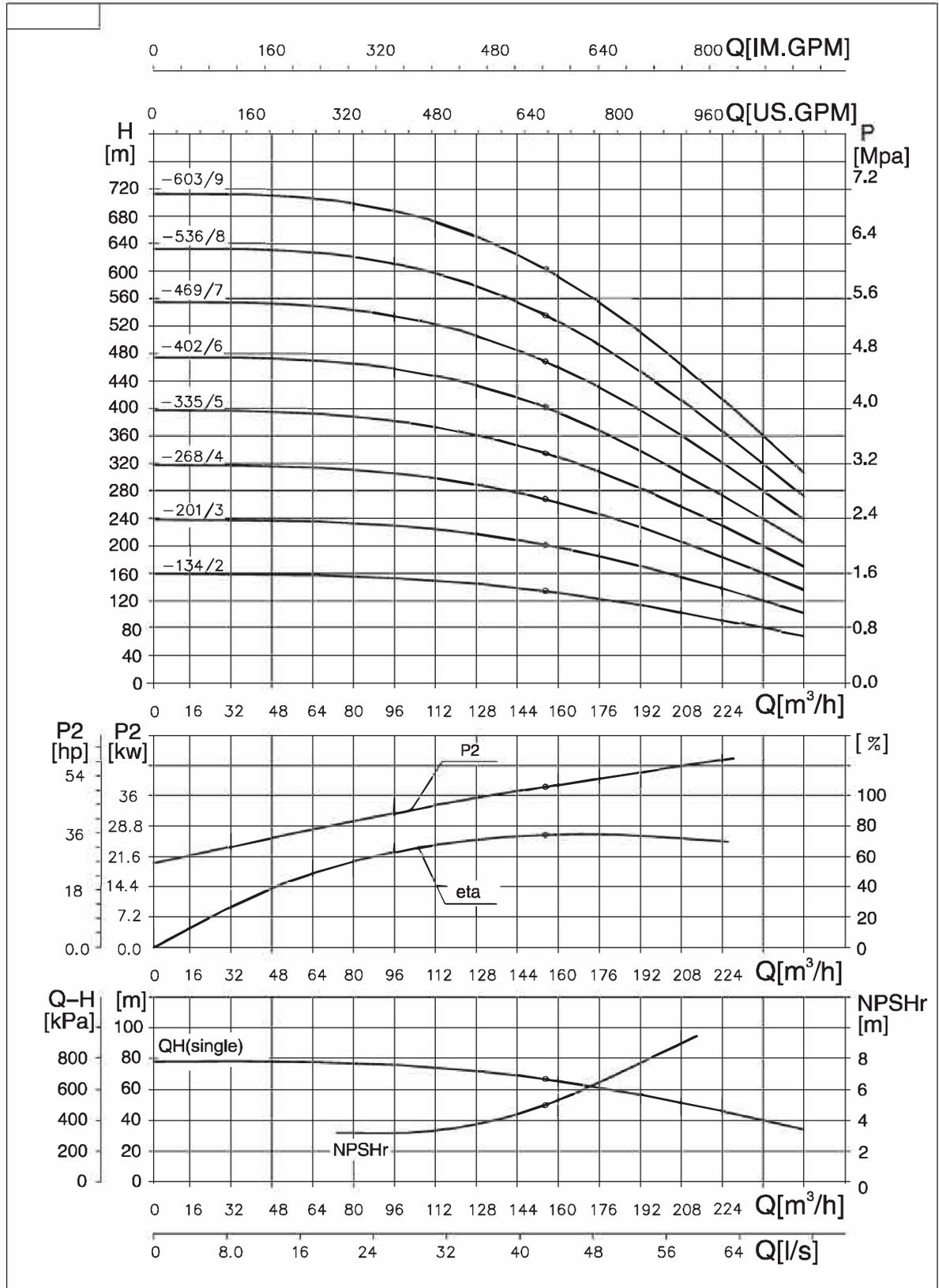


Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

HHP Performance Curve

HHP155-67

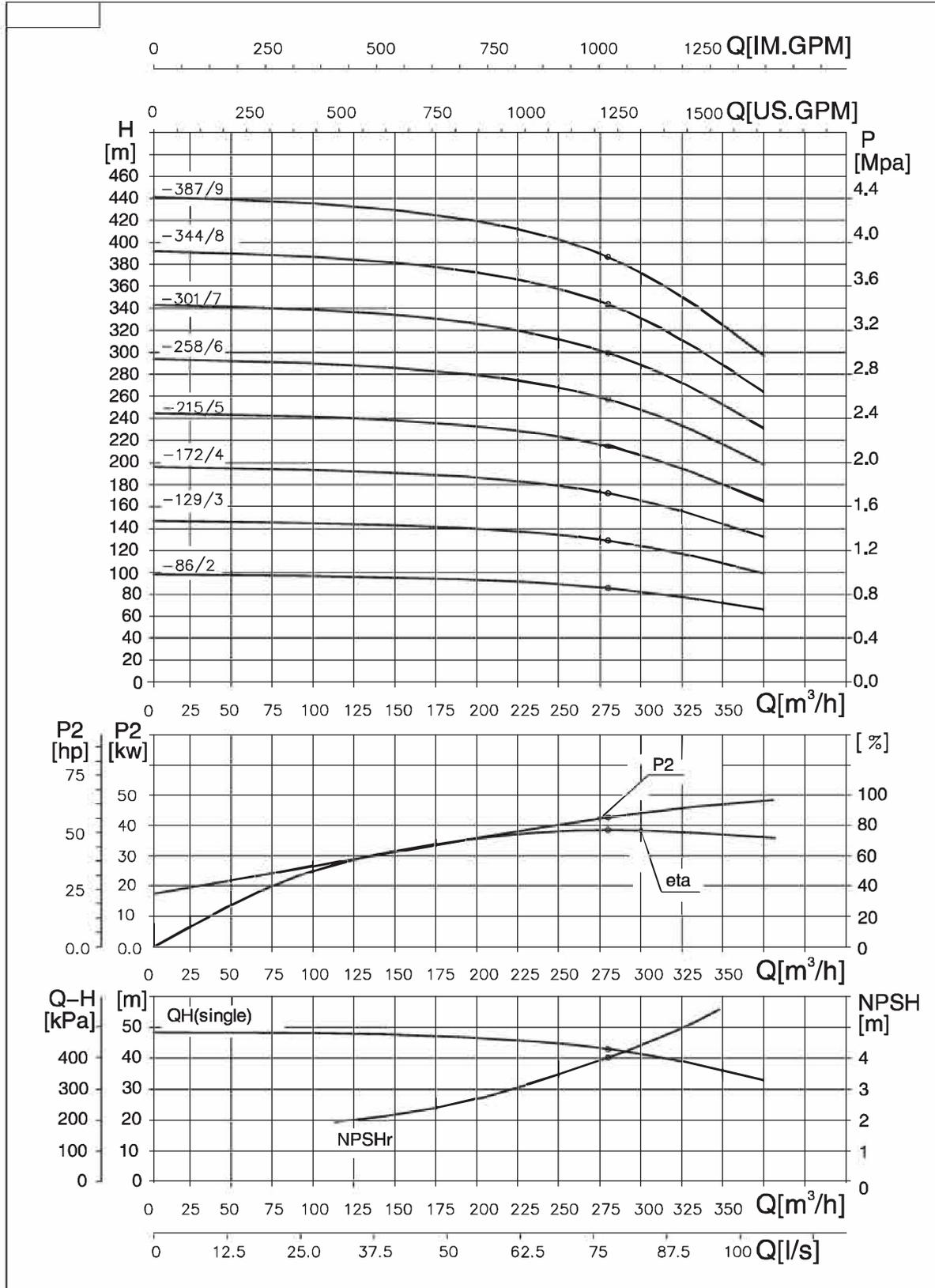
D₂=235mm 50Hz 2980rpm ISO 2548 Annex B



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{mm}^2/\text{s}$.

HHP Performance Curve

HHP280-43 D₂=360mm 50Hz 1480rpm ISO 2548 Annex B

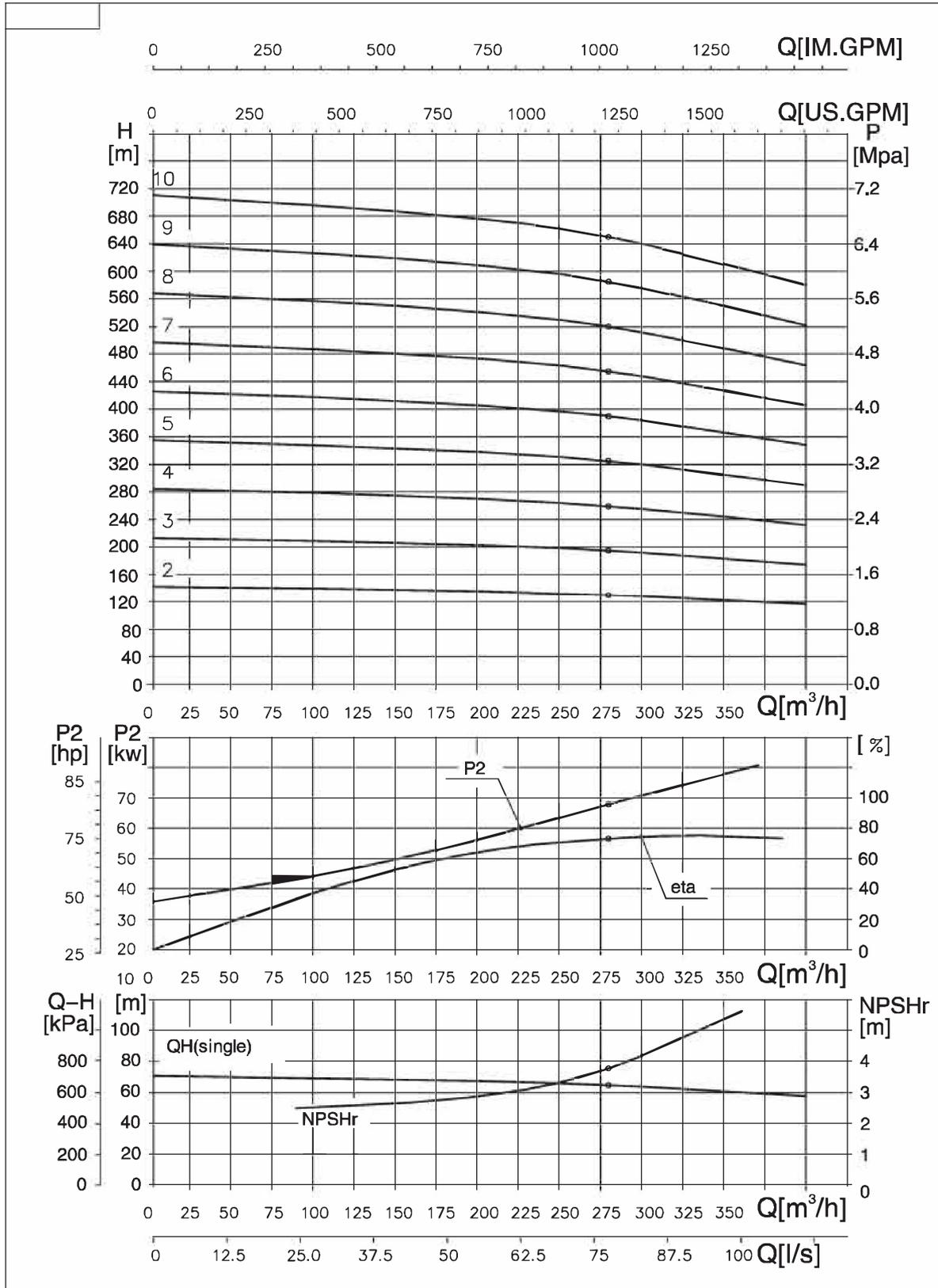


Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

HHP Performance Curve

HHP280-65

D₂=430mm 50Hz 1480rpm ISO 2548 Annex B

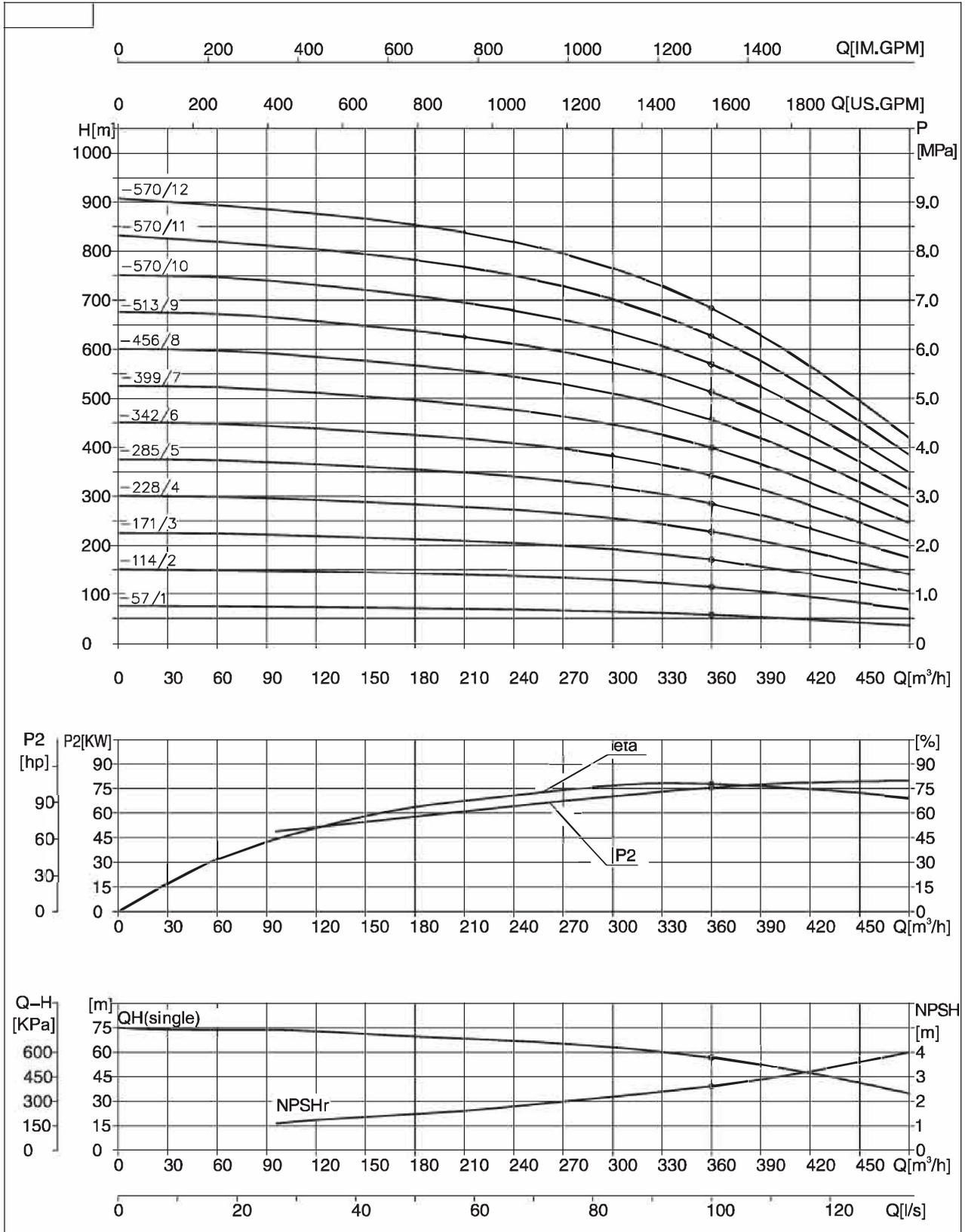


Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{mm}^2/\text{s}$.

HHP Performance Curve

HHP360-57

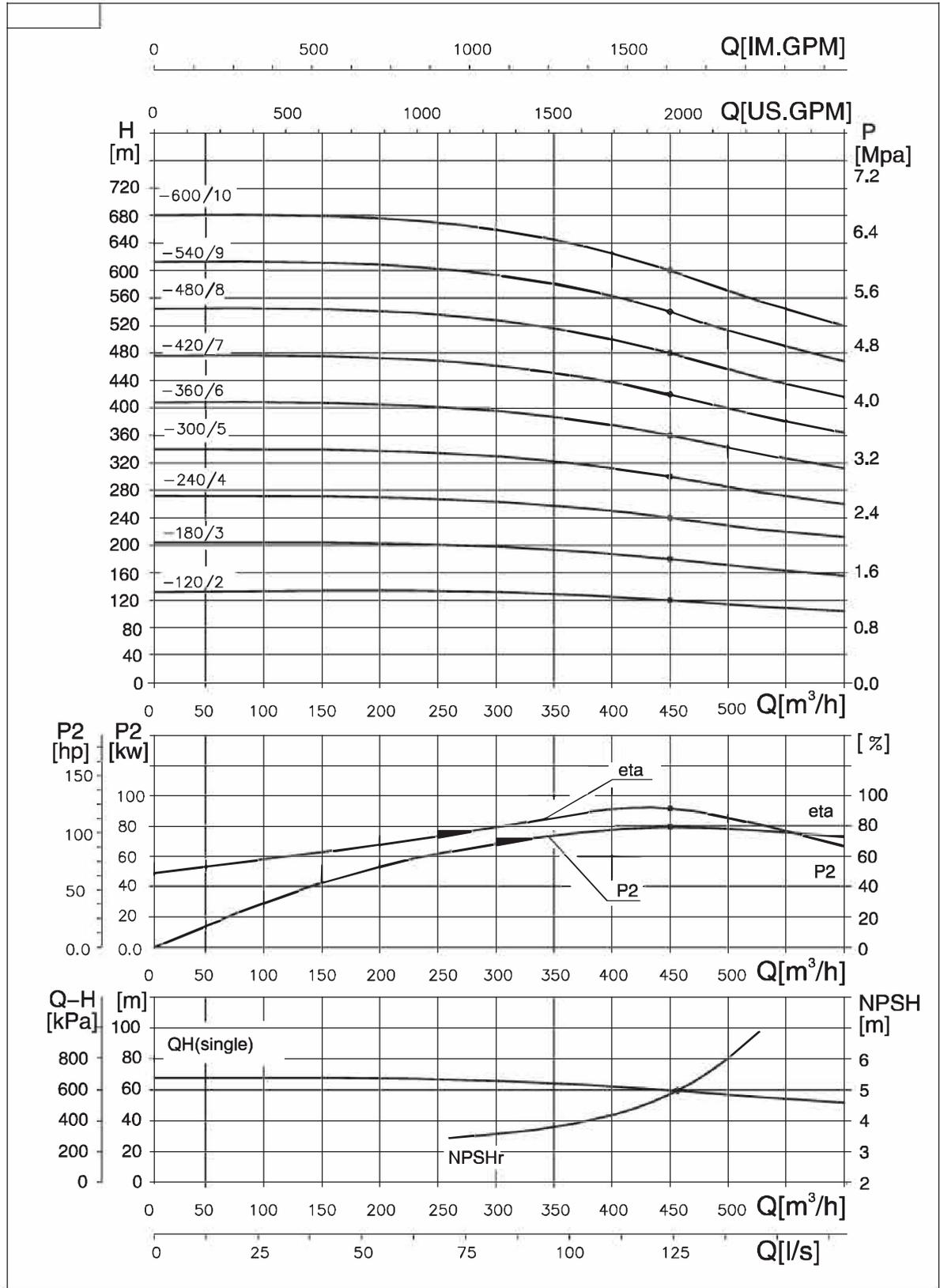
D₂=458mm 50Hz 1480rpm ISO 2548 Annex B



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{mm}^2/\text{s}$.

HHP Performance Curve

HHP450-60 $D_2=430\text{mm}$ 50Hz 1480rpm ISO 2548 Annex B

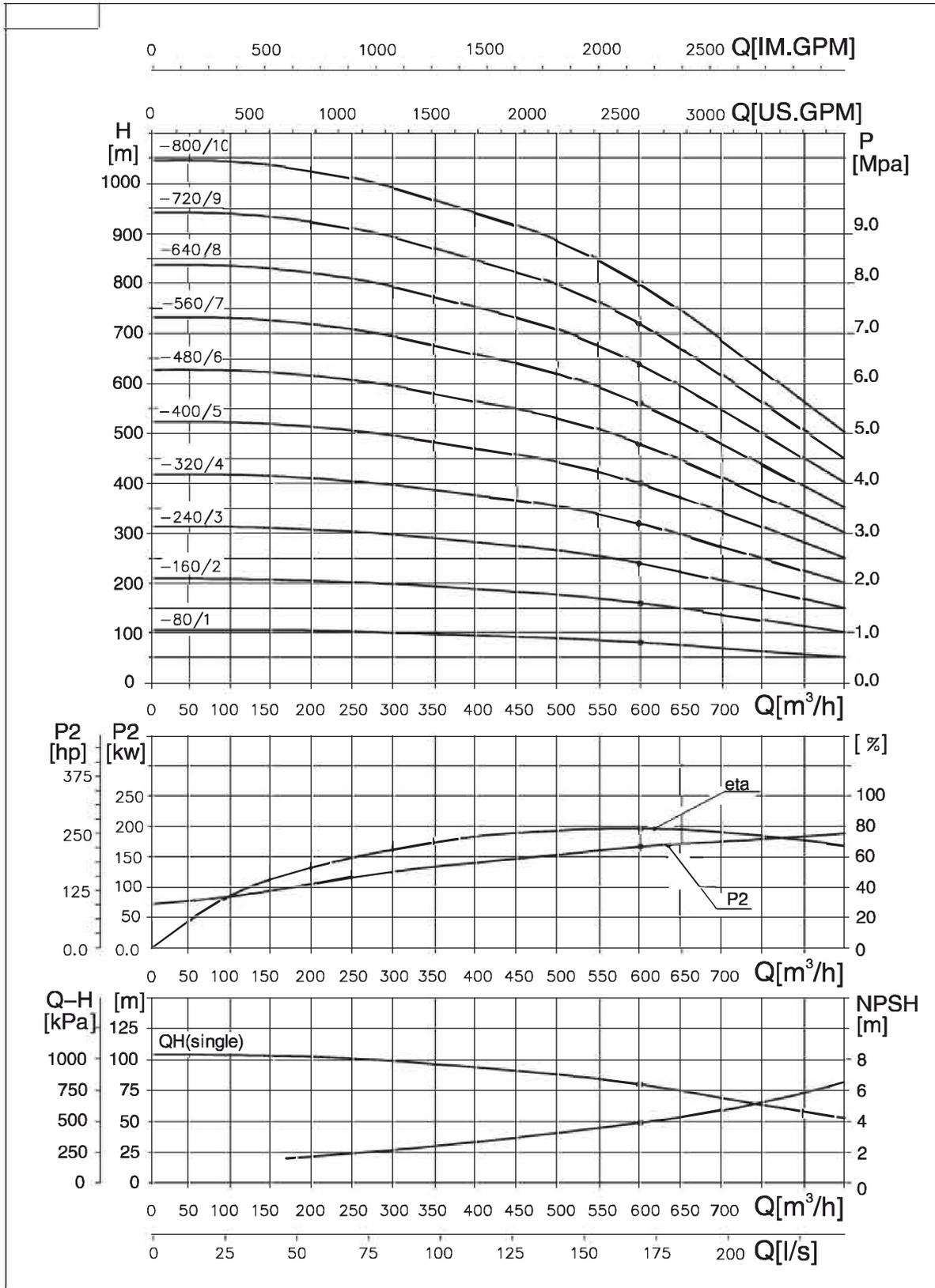


Head and power ratings apply to media with a density of $\rho=1\text{ kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

HHP Performance Curve

HHP600-80

D₂=542mm 50Hz 1480rpm ISO 2548 Annex B

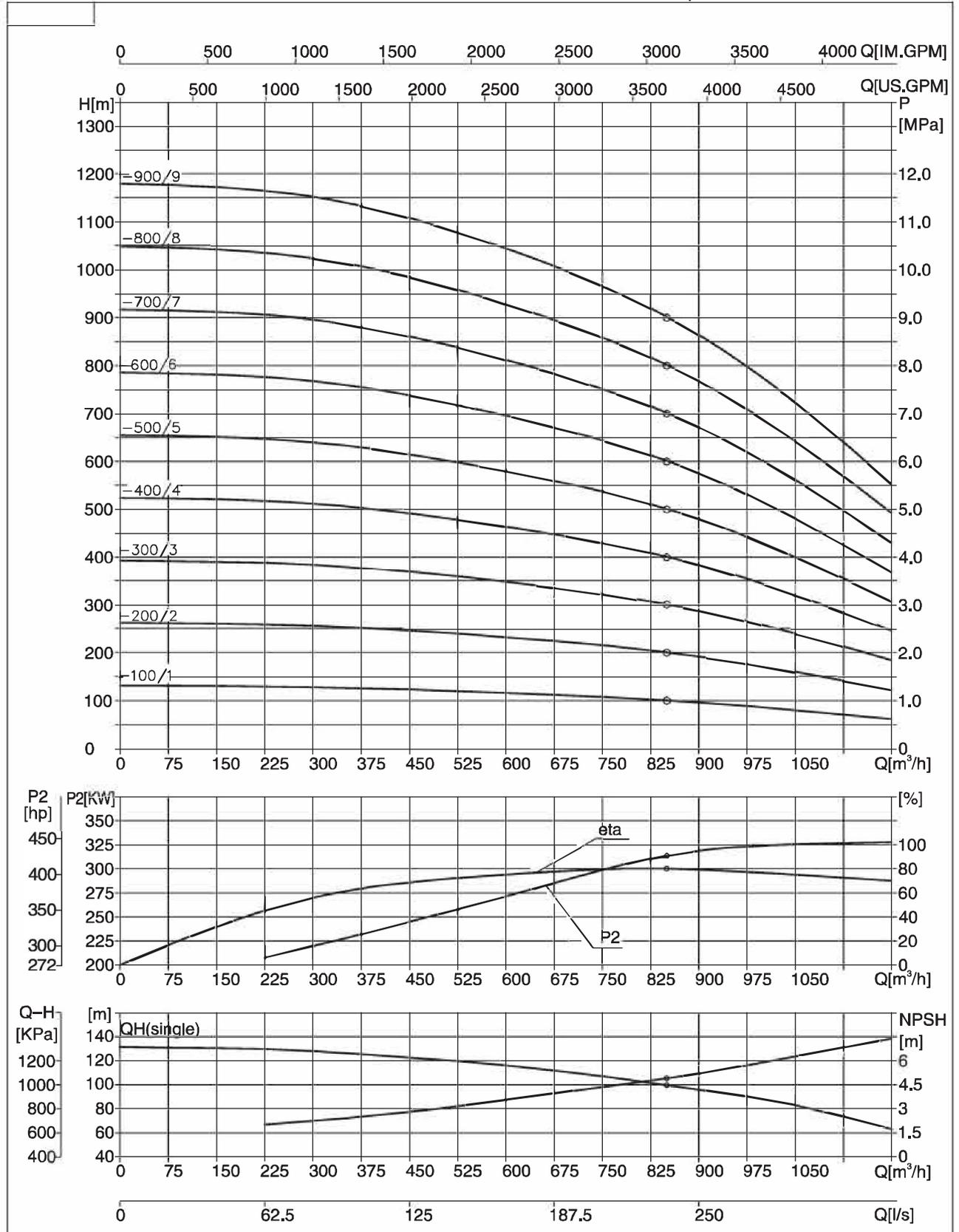


Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{mm}^2/\text{s}$.

HHP Performance Curve

HHP850-100

D₂=606mm 50Hz 1480rpm ISO 2548 Annex B



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

HHP Performance Data

Parameter	Capacity Q		Head H	Speed n	ShaftPower Pa	Motor		Eff. η	(NPSH) _r
						Power	Type		
Type	m ³ /h	L/s	m	r/min	Kw	Kw		%	m
HHP25-50X3	15	4.17	154.5	2980	14.4	22	Y180M-2	44	2.4
	25	6.94	150		18.9			54	2.7
	28	7.78	144		20.3			54	2.8
HHP25-50X4	15	4.17	206	2980	19.1	30	Y200L1-2	44	2.4
	25	6.94	200		25.2			54	2.7
	28	7.78	192		27.1			54	2.8
HHP25-50X5	15	4.17	257.5	2980	23.9	37	Y200L2-2	44	2.4
	25	6.94	250		31.5			54	2.7
	28	7.78	240		33.9			54	2.8
HHP25-50X6	15	4.17	309	2980	28.7	45	Y225M-2	44	2.4
	25	6.94	300		37.8			54	2.7
	28	7.78	240		33.9			54	2.8
HHP25-50X7	15	4.17	360.5	2980	33.5	55	Y250M-2	44	2.4
	25	6.94	350		44.2			54	2.7
	28	7.78	336		47.5			54	2.8
HHP25-50X8	15	4.17	412	2980	38.3	75	Y280S-2	44	2.4
	25	6.94	400		50.5			54	2.7
	28	7.78	384		54.3			54	2.8
HHP25-50X9	15	4.17	463.5	2980	43.1	75	Y280S-2	44	2.4
	25	6.94	450		56.8			54	2.7
	28	7.78	432		61.0			54	2.8
HHP25-50X10	15	4.17	515	2980	47.8	75	Y280S-2	44	2.4
	25	6.94	500		63.1			54	2.7
	28	7.78	480		67.8			54	2.8
HHP25-50X11	15	4.17	566.5	2980	52.6	90	Y280M-2	44	2.4
	25	6.94	550		69.4			54	2.7
	28	7.78	528		74.6			54	2.8
HHP25-50X12	15	4.17	618	2980	57.4	110	Y315S-2	44	2.4
	25	6.94	600		75.7			54	2.7
	28	7.78	576		81.4			54	2.8
HHP46-50X3	28	7.78	172.5	2980	24.4	37	Y200L2-2	54	2.5
	46	12.78	150		29.8			63	2.8
	50	13.89	144		30.7			64	3.2
HHP46-50X4	28	7.78	230	2980	32.5	45	Y225M-2	54	2.5
	46	12.78	200		39.8			63	2.8
	50	13.89	192		40.9			64	3.2
HHP46-50X5	28	7.78	287.5	2980	40.6	55	Y250M-2	54	2.5
	46	12.78	250		49.7			63	2.8
	50	13.89	240		51.1			64	3.2

HHP Performance Data

Parameter	Capacity Q		Head H	Speed n	ShaftPower Pa	Motor		Eff. η	(NPSH) _r
						Power	Type		
Type	m ³ /h	L/s	m	r/min	Kw	Kw		%	m
HHP46-50X6	28	7.78	345	2980	48.7	75	Y280S-2	54	2.5
	46	12.78	300		59.7			63	2.8
	50	13.89	288		61.3			64	3.2
HHP46-50X7	28	7.78	402.5	2980	56.9	90	Y280M-2	54	2.5
	46	12.78	350		69.6			63	2.8
	50	13.89	336		71.5			64	3.2
HHP46-50X8	28	7.78	460	2980	65.0	90	Y280M-2	54	2.5
	46	12.78	400		79.6			63	2.8
	50	13.89	384		81.8			64	3.2
HHP46-50X9	28	7.78	517.5	2980	73.1	110	Y315S-2	54	2.5
	46	12.78	450		89.5			63	2.8
	50	13.89	432		92.0			64	3.2
HHP6-50X10	28	7.78	575	2980	81.2	132	Y315M-2	54	2.5
	46	12.78	500		99.5			63	2.8
	50	13.89	480		102.2			64	3.2
HHP6-50X11	28	7.78	632.5	2980	89.4	132	Y315M-2	54	2.5
	46	12.78	550		109.4			63	2.8
	50	13.89	528		112.4			64	3.2
HHP6-50X12	28	7.78	690	2980	97.5	160	Y315L1-2	54	2.5
	46	12.78	600		119.4			63	2.8
	50	13.89	576		122.6			64	3.2
HHP85-67X3	55	15.28	222	2980	61.6	90	Y280M-2	54	3.3
	85	23.61	201		71.6			65	4
	100	27.78	183		76.7			65	4.4
HHP85-67X4	55	15.28	296	2980	82.2	110	Y315S-2	54	3.3
	85	23.61	268		95.5			65	4
	100	27.78	244		102.3			65	4.4
HHP85-67X5	55	15.28	370	2980	102.7	132	Y315M-2	54	3.3
	85	23.61	335		119.4			65	4
	100	27.78	305		127.9			65	4.4
HHP85-67X6	55	15.28	444	2980	123.2	160	Y315L1-2	54	3.3
	85	23.61	402		143.3			65	4
	100	27.78	366		153.4			65	4.4
HHP85-67X7	55	15.28	518	2980	143.8	200	Y315L2-2	54	3.3
	85	23.61	469		167.1			65	4
	100	27.78	427		179.0			65	4.4
HHP85-67X8	55	15.28	592	2980	164.3	220	Y355M1-2	54	3.3
	85	23.61	536		191.0			65	4
	100	27.78	488		204.6			65	4.4

HHP Performance Data

Parameter	Capacity Q		Head H	Speed n	ShaftPower Pa	Motor		Eff. η	(NPSH) _r
						Power	Type		
Type	m ³ /h	L/s	m	r/min	Kw	Kw		%	m
HHP85-67X9	55	15.28	666	2980	184.8	250	Y355M2-2	54	3.3
	85	23.61	603		214.9			65	4
	100	27.78	549		230.2			65	4.4
HHP155-67X3	100	26.38	228	2980	97.1	132	Y315M-2	64	3.2
	155	43.06	201		114.7			74	5
	185	51.38	177		123.9			72	6.6
HHP155-67X4	100	26.38	304	2980	153.4	200	Y315L2-2	54	3.2
	155	43.06	268		174.1			65	5
	185	51.38	236		183.0			65	6.6
HHP155-67X5	100	26.38	380	2980	161.8	220	Y355M1-2	64	3.2
	155	43.06	335		191.2			74	5
	185	51.38	295		206.6			72	6.6
HHP155-67X6	100	26.38	456	2980	230.1	280	Y355L1-2	54	3.2
	155	43.06	402		261.2			65	5
	185	51.38	354		274.6			65	6.6
HHP155-67X7	100	26.38	532	2980	226.5	315	Y355L2-2	64	3.2
	155	43.06	469		267.7			74	5
	185	51.38	413		289.2			72	6.6
HHP155-67X8	100	26.38	608	2980	306.8	355	Y3555-2	54	3.2
	155	43.06	536		348.3			65	5
	185	51.38	472		366.1			65	6.6
HHP155-67X9	100	26.38	684	2980	291.2	400	Y3556-2	64	3.2
	155	43.06	603		344.2			74	5
	185	51.38	531		371.8			72	6.6
HHP155-30X2	119	33.06	64	1480	28.8	55	Y225M-4	72	2.7
	155	43.06	60		32.9			77	3.2
	190	52.78	54		36.5			76.5	3.9
HHP155-30X3	119	33.06	96	1480	43.2	75	Y280M-4	72	2.7
	155	43.06	90		49.4			77	3.2
	190	52.78	81		54.8			76.5	3.9
HHP155-30X4	119	33.06	128	1480	57.6	75	Y280M-4	72	2.7
	155	43.06	120		65.8			77	3.2
	190	52.78	108		73.1			76.5	3.9
HHP155-30X5	119	33.06	160	1480	72.1	110	Y315S-4	72	2.7
	155	43.06	150		82.3			77	3.2
	190	52.78	135		91.4			76.5	3.9
HHP155-30X6	119	33.06	192	1480	86.5	132	Y315M-4	72	2.7
	155	43.06	180		98.7			77	3.2
	190	52.78	162		109.6			76.5	3.9

HHP Performance Data

Parameter	Capacity Q		Head H m	Speed n r/min	Shaft Power Pa Kw	Motor		Eff. η %	(NPSH) _r m
	Type	m ³ /h				L/s	Power Kw		
HHP155-30X7	119	33.06	224	1480	100.9	160	Y315L1-4	72	2.7
	155	43.06	210		115.2			77	3.2
	190	52.78	189		127.9			76.5	3.9
HHP155-30X8	119	33.06	256	1480	115.3	160	Y315L1-4	72	2.7
	155	43.06	240		131.6			77	3.2
	190	52.78	216		146.2			76.5	3.9
HHP155-30X9	119	33.06	288	1480	129.7	200	Y315L2-4	72	2.7
	155	43.06	270		148.1			77	3.2
	190	52.78	243		164.5			76.5	3.9
HHP155-30X10	119	33.06	320	1480	144.1	200	Y315L2-4	72	2.7
	155	43.06	300		164.6			77	3.2
	190	52.78	270		182.7			76.5	3.9
HHP280-3X2	185	51.39	94	1480	65.8	110	Y315S-4	72	2.5
	280	77.78	86		85.2			77	4
	335	93.06	76		90.7			76.5	5.2
HHP280-43X3	185	51.39	141	1480	98.7	160	Y315L1-4	72	2.5
	280	77.78	129		127.8			77	4
	335	93.06	114		136.0			76.5	5.2
HHP280-43X4	185	51.39	188	1480	131.6	200	Y315L2-4	72	2.5
	280	77.78	172		170.4			77	4
	335	93.06	152		181.4			76.5	5.2
HHP280-43X5	185	51.39	235	1480	164.5	280	Y355L1-4	72	2.5
	280	77.78	215		213.0			77	4
	335	93.06	190		226.7			76.5	5.2
HHP280-43X6	185	51.39	282	1480	197.4	315	Y355L2-4	72	2.5
	280	77.78	258		255.7			77	4
	335	93.06	228		272.1			76.5	5.2
HHP280-43X7	185	51.39	329	1480	230.4	355	Y4001-4	72	2.5
	280	77.78	301		298.3			77	4
	335	93.06	266		317.4			76.5	5.2
HHP280-43X8	185	51.39	376	1480	263.3	400	Y4002-4	72	2.5
	280	77.78	344		340.9			77	4
	335	93.06	304		362.8			76.5	5.2
HHP280-43X9	185	51.39	423	1480	296.2	450	Y4003-4	72	2.5
	280	77.78	387		383.5			77	4
	335	93.06	342		408.1			76.5	5.2
HHP280-65X3	185	51.39	204	1480	168.6	280	Y355L1-4	61	2.8
	280	77.78	195		203.8			73	3.7
	335	93.06	186		226.4			75	5

HHP Performance Data

Parameter	Capacity Q		Head H	Speed n	Shaft Power Pa	Motor		Eff. η	(NPSH) _r
						Power	Type		
Type	m ³ /h	L/s	m	r/min	Kw	Kw		%	m
HHP280-65X4	185	51.39	272	1480	224.8	355	Y4001-4	61	2.8
	280	77.78	260		271.8			73	3.7
	335	93.06	248		301.9			75	5
HHP280-65X5	185	51.39	340	1480	281.0	450	Y4003-4	61	2.8
	280	77.78	325		339.7			73	3.7
	335	93.06	310		377.3			75	5
HHP280-65X6	185	51.39	408	1480	337.2	500	Y4004-4	61	2.8
	280	77.78	390		407.6			73	3.7
	335	93.06	372		452.8			75	5
HHP280-65X7	185	51.39	476	1480	393.4	630	Y4501-4	61	2.8
	280	77.78	455		475.6			73	3.7
	335	93.06	434		528.3			75	5
HHP280-65X8	185	51.39	544	1480	449.6	710	Y4502-4	61	2.8
	280	77.78	520		543.5			73	3.7
	335	93.06	496		603.7			75	5
HHP280-65X9	185	51.39	612	1480	505.8	800	Y4503-4	61	2.8
	280	77.78	585		611.4			73	3.7
	335	93.06	558		679.2			75	5
HHP280-65X10	185	51.39	680	1480	562.0	900	Y4504-4	61	2.8
	280	77.78	650		679.4			73	3.7
	335	93.06	620		754.6			75	5
HHP360-57X2	288	80	129.9	1480	134.0	200	Y315L2-4	76.1	2.23
	360	100	114		143.7			77.8	2.75
	432	120	89.2		140.9			74.5	3.4
HHP360-57X3	288	80	194.7	1480	200.8	250	Y355M2-4	76.1	2.23
	360	100	171		215.6			77.8	2.75
	432	120	133.9		211.6			74.5	3.4
HHP360-57X4	288	80	259.5	1480	267.6	355	Y4001-4	76.1	2.23
	360	100	228		287.5			77.8	2.75
	432	120	178.6		282.2			74.5	3.4
HHP360-57X5	288	80	324.3	1480	334.4	450	Y4003-4	76.1	2.23
	360	100	285		359.4			77.8	2.75
	432	120	223.3		352.8			74.5	3.4
HHP360-57X6	288	80	389.1	1480	401.3	500	Y4004-4	76.1	2.23
	360	100	342		431.2			77.8	2.75
	432	120	268		423.5			74.5	3
HHP360-57X7	288	80	453.9	1480	468.1	630	Y4501-4	76.1	2.23
	360	100	399		503.1			77.8	2.75
	432	120	312.7		494.1			74.5	3.4

HHP Performance Data

Parameter	Capacity Q		Head H	Speed n	ShaftPower Pa	Motor		Eff. η	(NPSH) _r
						Power	Type		
Type	m ³ /h	L/s	m	r/min	Kw	Kw		%	m
HHP360-57X8	288	80	518.7	1480	534.9	710	Y4502-4	76.1	2.23
	360	100	456		575.0			77.8	2.75
	432	120	357.4		564.7			74.5	3.4
HHP360-57X9	288	80	583.5	1480	601.7	800	Y4503-4	76.1	2.23
	360	100	513		646.9			77.8	2.75
	432	120	402.1		635.4			74.5	3.4
HHP360-57X10	288	80	684	1480	705.4	900	Y4504-4	76.1	2.23
	360	100	570		718.7			77.8	2.75
	432	120	456		720.5			74.5	3.4
HHP360-57X11	288	80	752.4	1480	775.9	1000	Y5001-4	76.1	2.23
	360	100	627		790.6			77.8	2.75
	432	120	501.6		792.6			74.5	3
HHP360-57X12	288	80	820.8	1480	846.5	1120	Y5002-4	76.1	2.23
	360	100	684		862.5			77.8	2.75
	432	120	547.2		864.6			74.5	3.4
HHP450-60X3	335	93.06	195	1480	255.0	355	Y4001-4	69.8	3.8
	450	125	180		294.3			75	4.9
	500	138.89	171		298.7			78	6
HHP450-60X4	335	93.06	260	1480	340.0	450	Y4003-4	69.8	3.8
	450	125	240		392.4			75	4.9
	500	138.89	228		398.3			78	6
HHP450-60X5	335	93.06	325	1480	425.0	560	Y4005-4	69.8	3.8
	450	125	300		490.5			75	4.9
	500	138.89	285		497.8			78	6
HHP450-60X6	335	93.06	390	1480	510.1	710	Y4502-4	69.8	3.8
	450	125	360		588.6			75	4.9
	500	138.89	342		597.4			78	6
HHP450-60X7	335	93.06	455	1480	595.1	800	Y4503-4	69.8	3.8
	450	125	420		686.7			75	4.9
	500	138.89	399		697.0			78	6
HHP450-60X8	335	93.06	520	1480	680.1	900	Y4504-4	69.8	3.8
	450	125	480		784.8			75	4.9
	500	138.89	456		796.5			78	6
HHP450-60X9	335	93.06	585	1480	765.1	1000	Y5001-4	69.8	3.8
	450	125	540		882.9			75	4.9
	500	138.89	513		896.1			78	6
HHP450-60X10	335	93.06	650	1480	850.1	1120	Y5002-4	69.8	3.8
	450	125	600		981.0			75	4.9
	500	138.89	570		995.7			78	6

HHP Performance Data

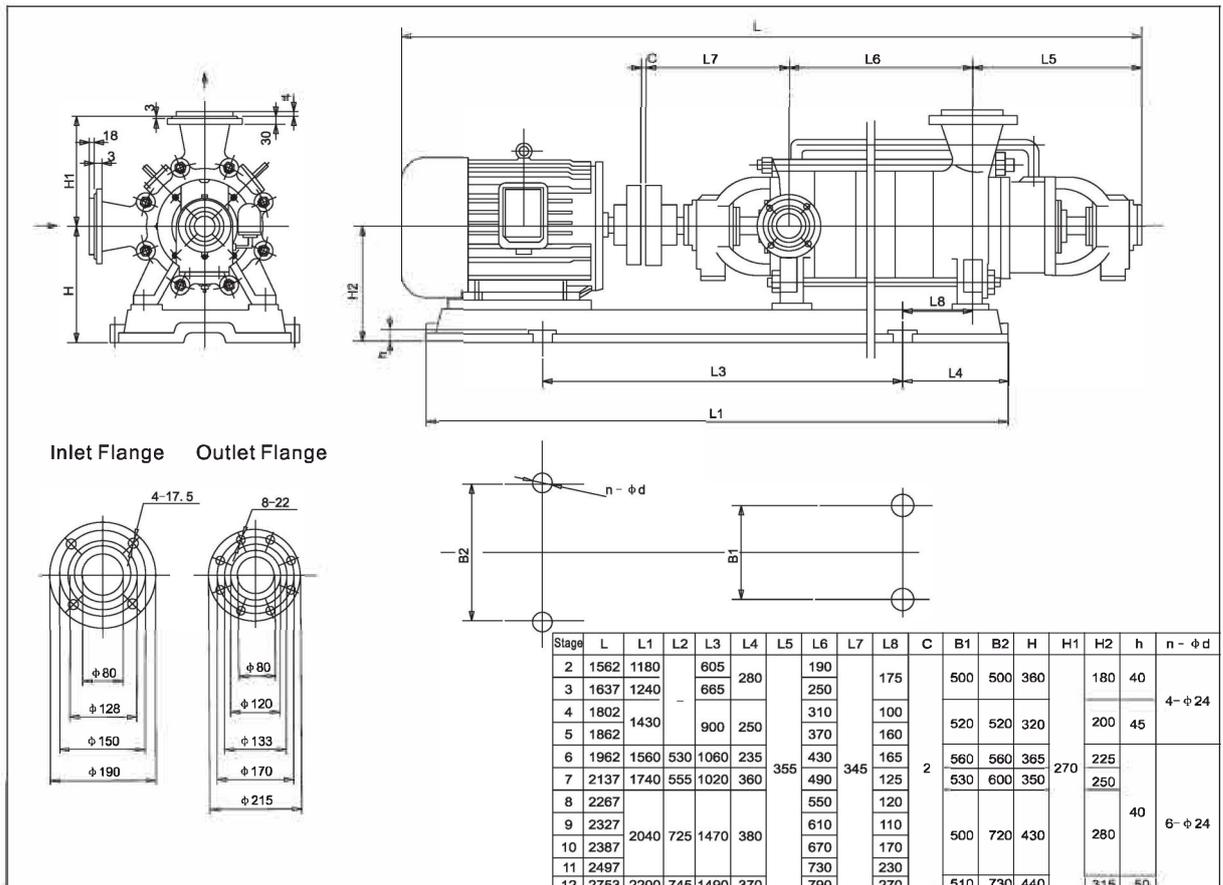
Parameter	Capacity Q		Head H	Speed n	ShaftPower Pa	Motor		Eff. η	(NPSH) _r
						Power	Type		
Type	m ³ /h	L/s	m	r/min	Kw	Kw		%	m
HHP600-80X2	480	133.33	179.6	1480	306.3	400	Y4002-4	76.7	3.1
	600	166.67	160		333.2			78.5	3.8
	720	200	132.3		341.5			76	4.8
HHP600-80X3	480	133.33	269.6	1480	459.8	630	Y4501-4	76.7	3.1
	600	166.67	240		499.9			78.5	3.9
	720	200	198.6		512.7			76	4.8
HHP600-80X4	480	133.33	359.6	1480	613.2	800	Y4503-4	76.7	3.1
	600	166.67	320		666.5			78.5	3.8
	720	200	264.9		683.9			76	4.8
HHP600-80X5	480	133.33	449.6	1480	766.7	1000	Y5001-4	76.7	3.1
	600	166.67	400		833.1			78.5	3.8
	720	200	331.2		855.0			76	4.8
HHP600-80X6	480	133.33	539.6	1480	920.2	1250	Y5003-4	76.7	3.1
	600	166.67	480		999.7			78.5	3.8
	720	200	397.5		1026.2			76	4.8
HHP600-80X7	480	133.33	629.6	1480	1073.7	1400	Y5004-4	76.7	3.1
	600	166.67	560		1166.4			78.5	3.8
	720	200	463.8		1197.3			76	4.8
HHP600-80X8	480	133.33	719.6	1480	1227.2	1600	Y5601-4	76.7	3.1
	600	166.67	640		1333.0			78.5	3.8
	720	200	530.1		1368.5			76	4.8
HHP600-80X9	480	133.33	809.6	1480	1380.6	1800	Y5602-4	76.7	3.1
	600	166.67	720		1499.6			78.5	3.8
	720	200	596.4		1539.7			76	4.8
HHP600-80X10	480	133.33	960	1480	1637.1	2000	Y5603-4	76.7	3.1
	600	166.67	800		1666.2			78.5	3.8
	720	200	640		1652.2			76	4.8
HHP850-100X2	680	188.89	223.4	1480	534.1	710	Y4502-4	77.5	3.96
	850	236.1	200		586.4			79	4.88
	1020	283.33	165.6		608.0			75.7	6.07
HHP850-100X3	680	188.89	335.1	1480	801.2	1120	Y5002-4	77.5	3.96
	850	236.1	300		879.6			79	4.88
	1020	283.33	248.4		912.1			75.7	6.07
HHP850-100X4	680	188.89	446.8	1480	1068.3	1400	Y5004-4	77.5	3.96
	850	236.1	400		1172.8			79	4.88
	1020	283.33	331.2		1216.1			75.7	6.07
HHP850-100X5	680	188.89	558.5	1480	1335.4	1800	Y5602-4	77.5	3.96
	850	236.1	500		1466.0			79	4.88
	1020	283.33	414		1520.1			75.7	6.07

HHP Performance Data

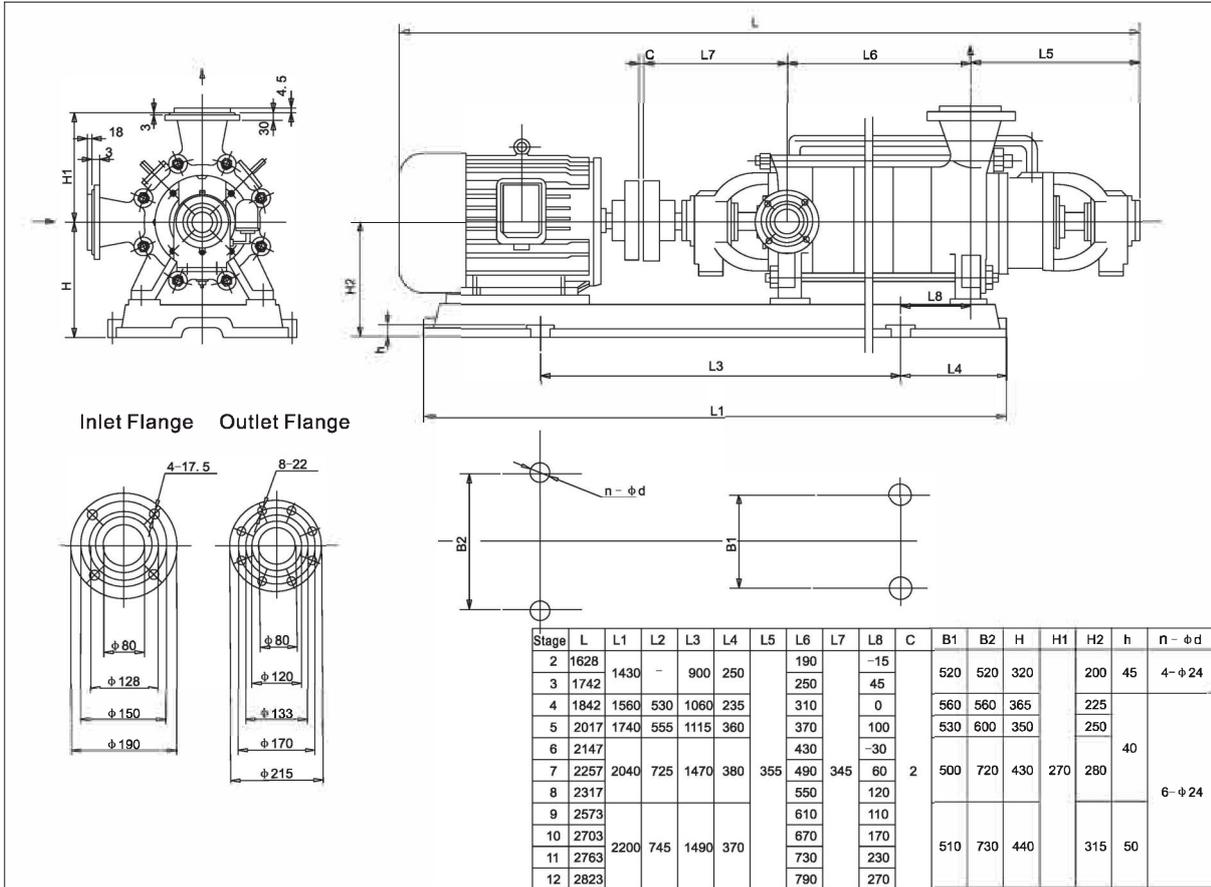
Parameter	Capacity Q		Head H	Speed n	Shaft Power Pa	Motor		Eff. η	(NPSH) _r
	m ³ /h	L/s				Power	Type		
Type	m ³ /h	L/s	m	r/min	Kw	Kw		%	m
HHP850-100X6	680	188.89	670.2	1480	1602.4	2240	Y6301-4	77.5	3.96
	850	236.1	600		1759.2			79	4.88
	1020	283.33	496.8		1824.1			75.7	6.07
HHP850-100X7	680	188.89	781.9	1480	1869.5	2500	Y6302-4	77.5	3.96
	850	236.1	700		2052.4			79	4.88
	1020	283.33	579.6		2128.1			75.7	6.07
HHP850-100X8	680	188.89	893.6	1480	2136.6	2800	Y6303-4	77.5	3.96
	850	236.1	800		2345.6			79	4.88
	1020	283.33	662.4		2432.2			75.7	6.07
HHP850-100X9	680	188.89	1005.3	1480	2403.6	3150	YKK710-4	77.5	3.96
	850	236.1	900		2638.8			79	4.88
	1020	283.33	745.2		2736.2			75.7	6.07

Note : The above motor is 380V or 6KV.

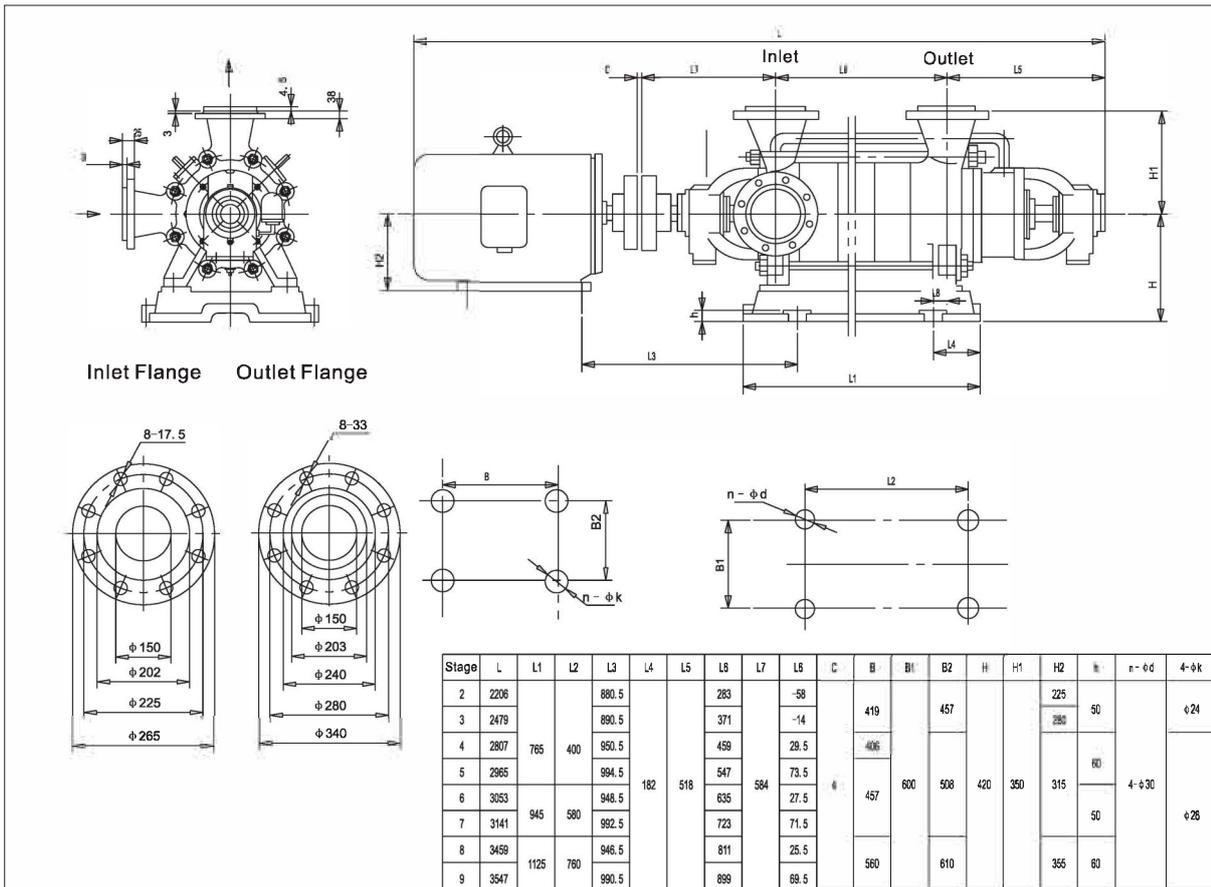
HHP 25-50 Overall Dimension Drawing



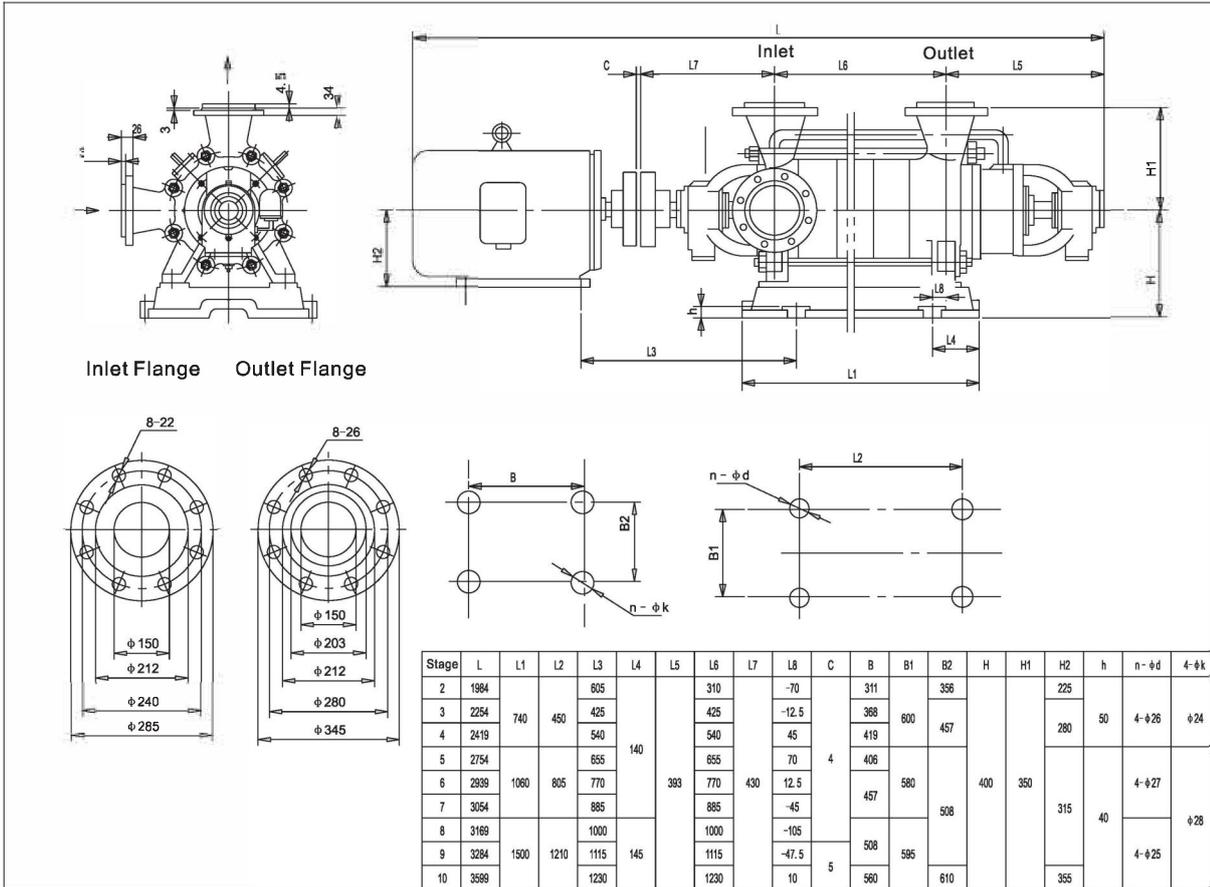
HHP46-50 Overall Dimension Drawing



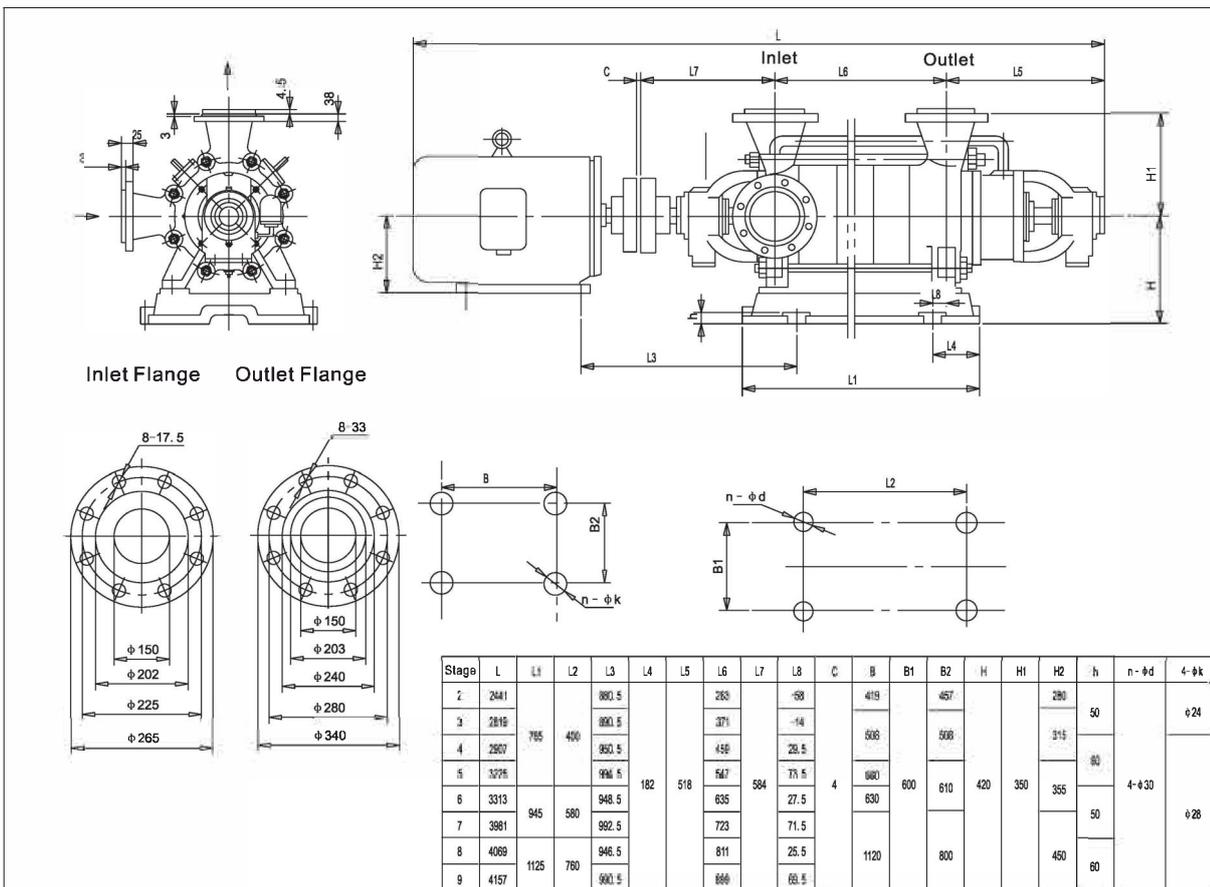
HHP85-67 Overall Dimension Drawing



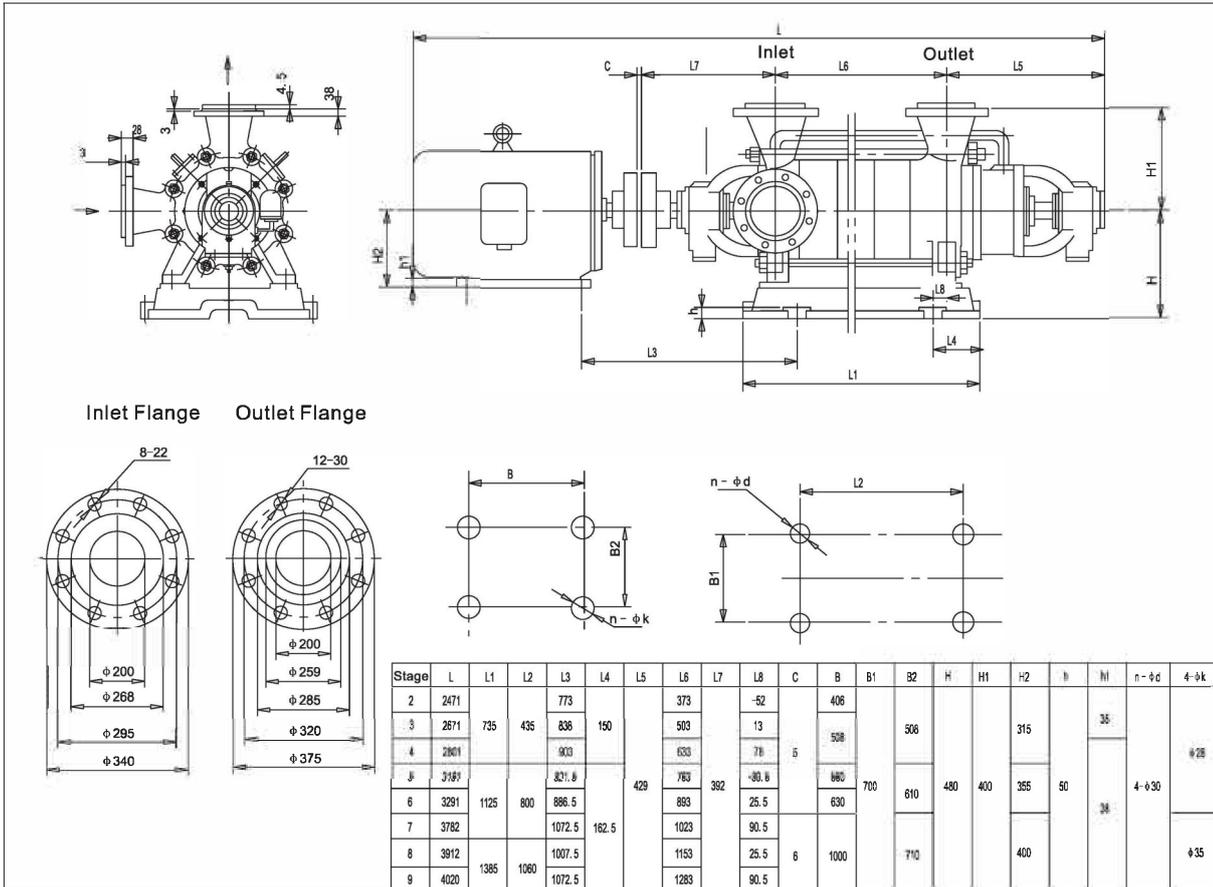
HHP155-30 Overall Dimension Drawing



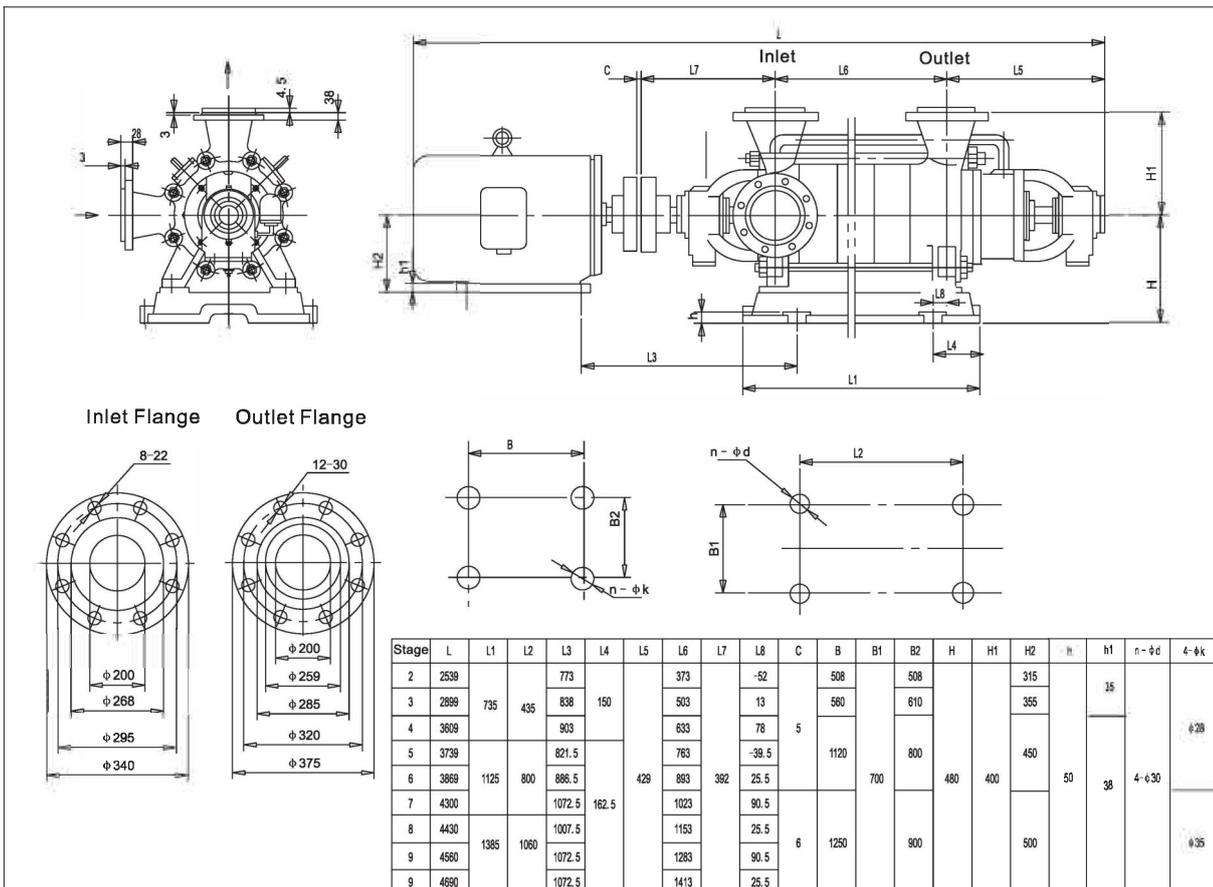
HHP155-67 Overall Dimension Drawing



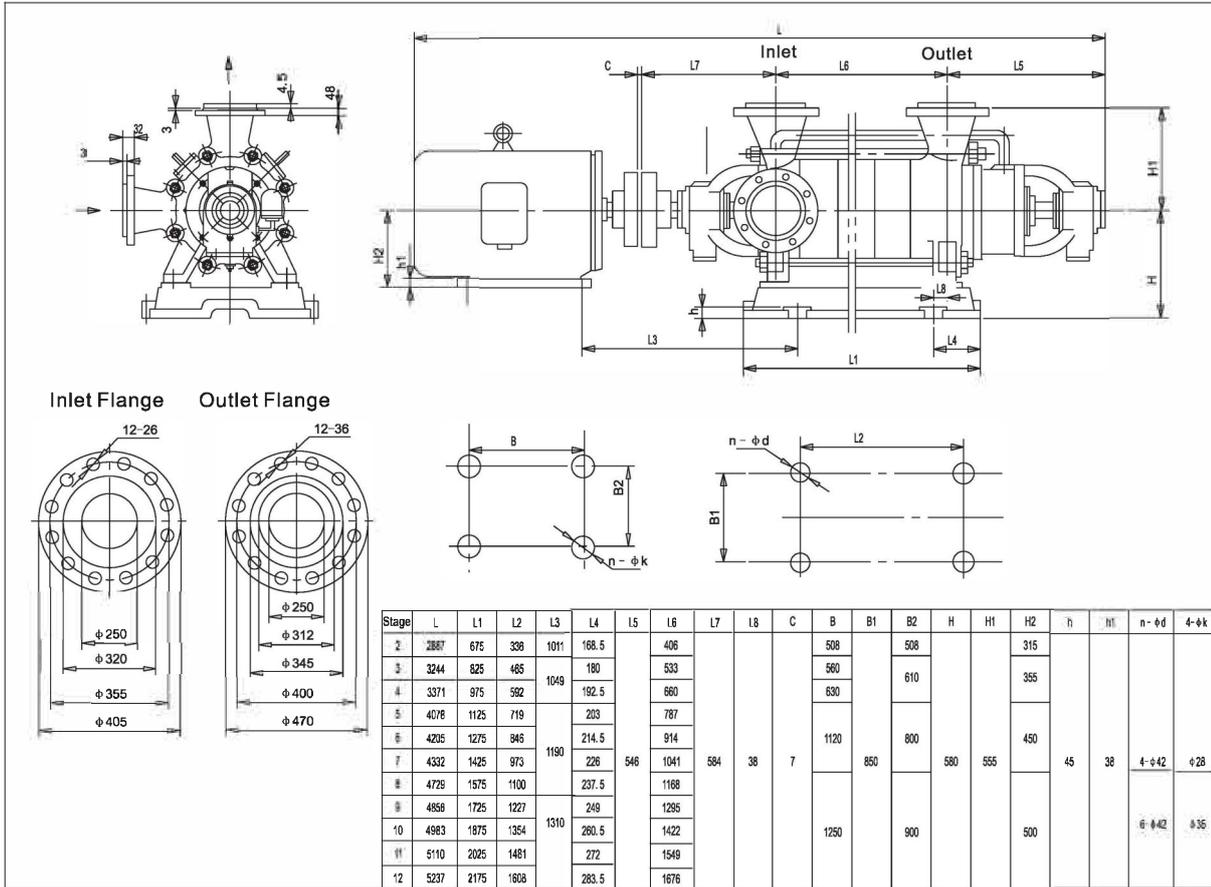
HHP280-43 Overall Dimension Drawing



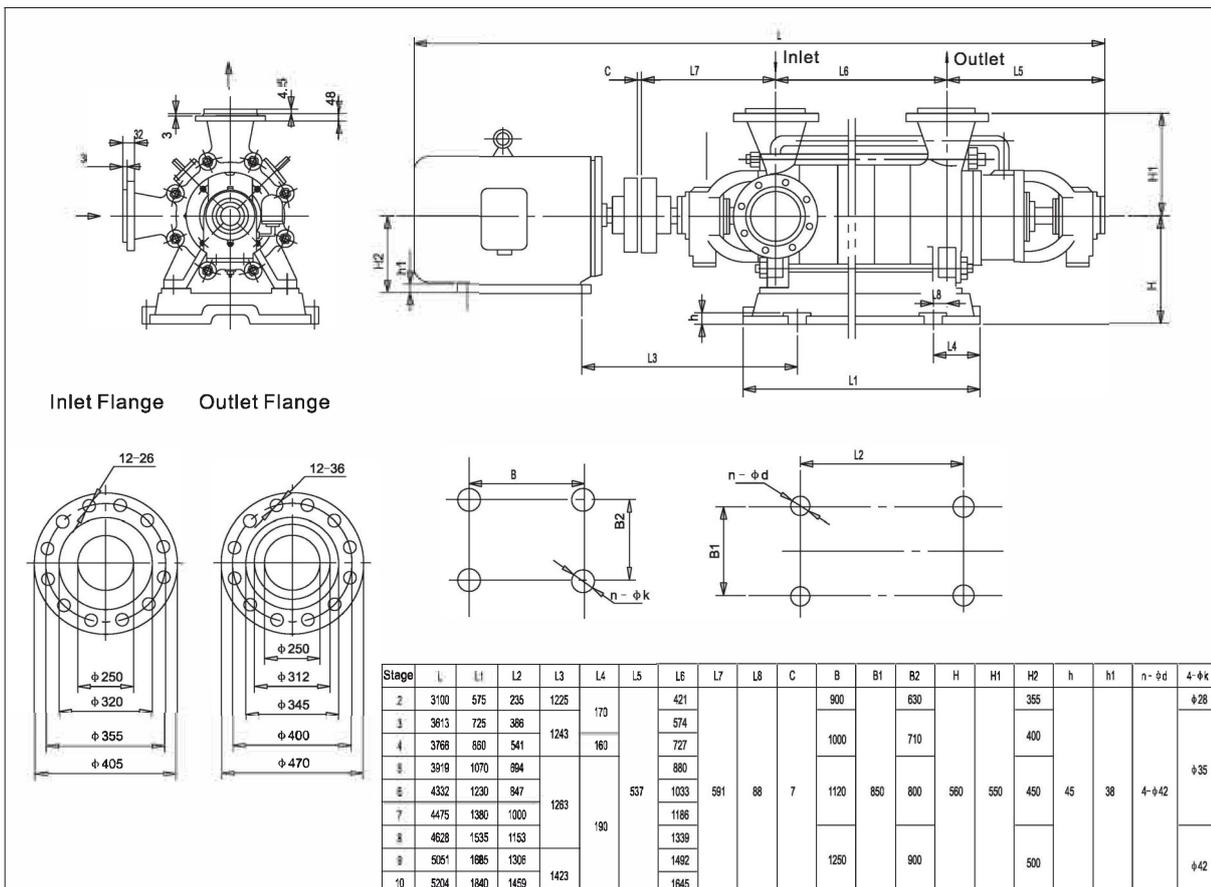
HHP280-65 Overall Dimension Drawing



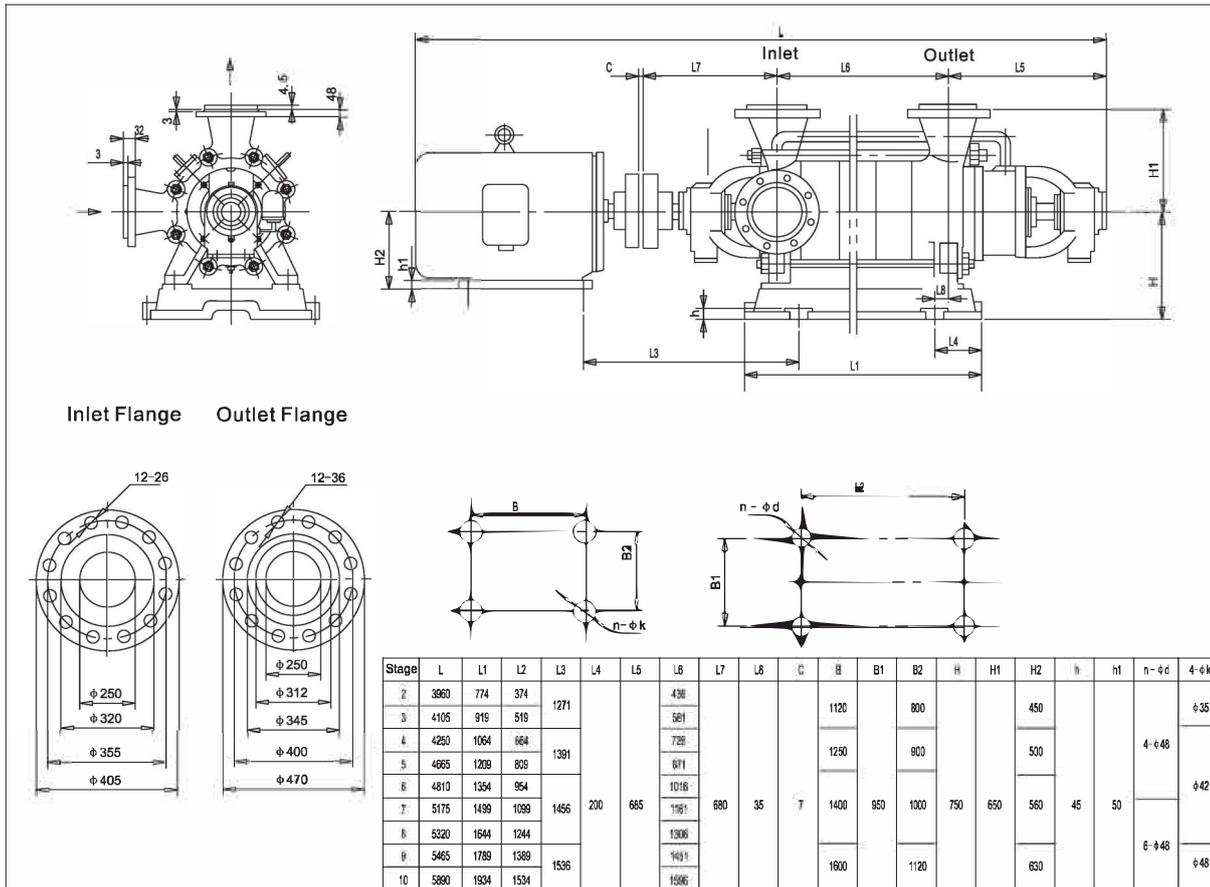
HHP360-57 Overall Dimension Drawing



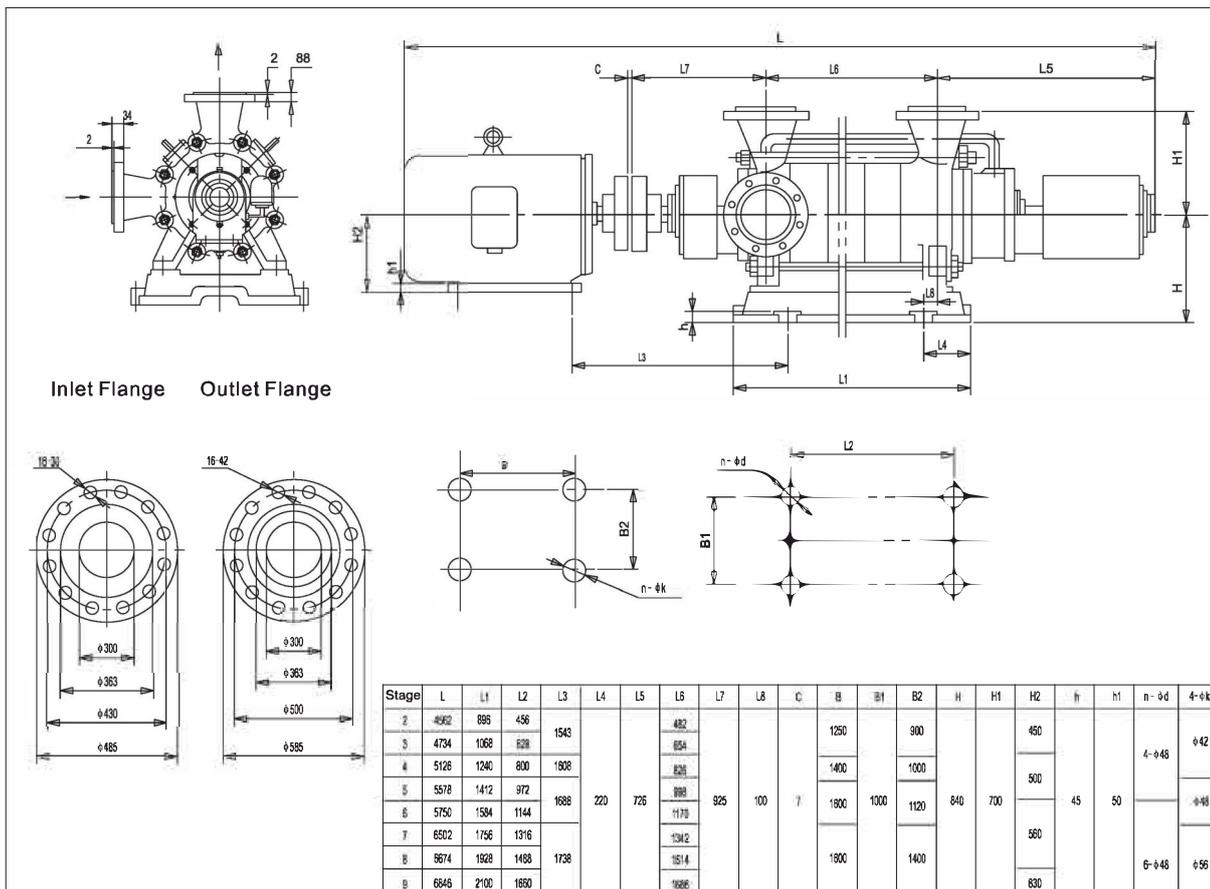
HHP450-60 Overall Dimension Drawing

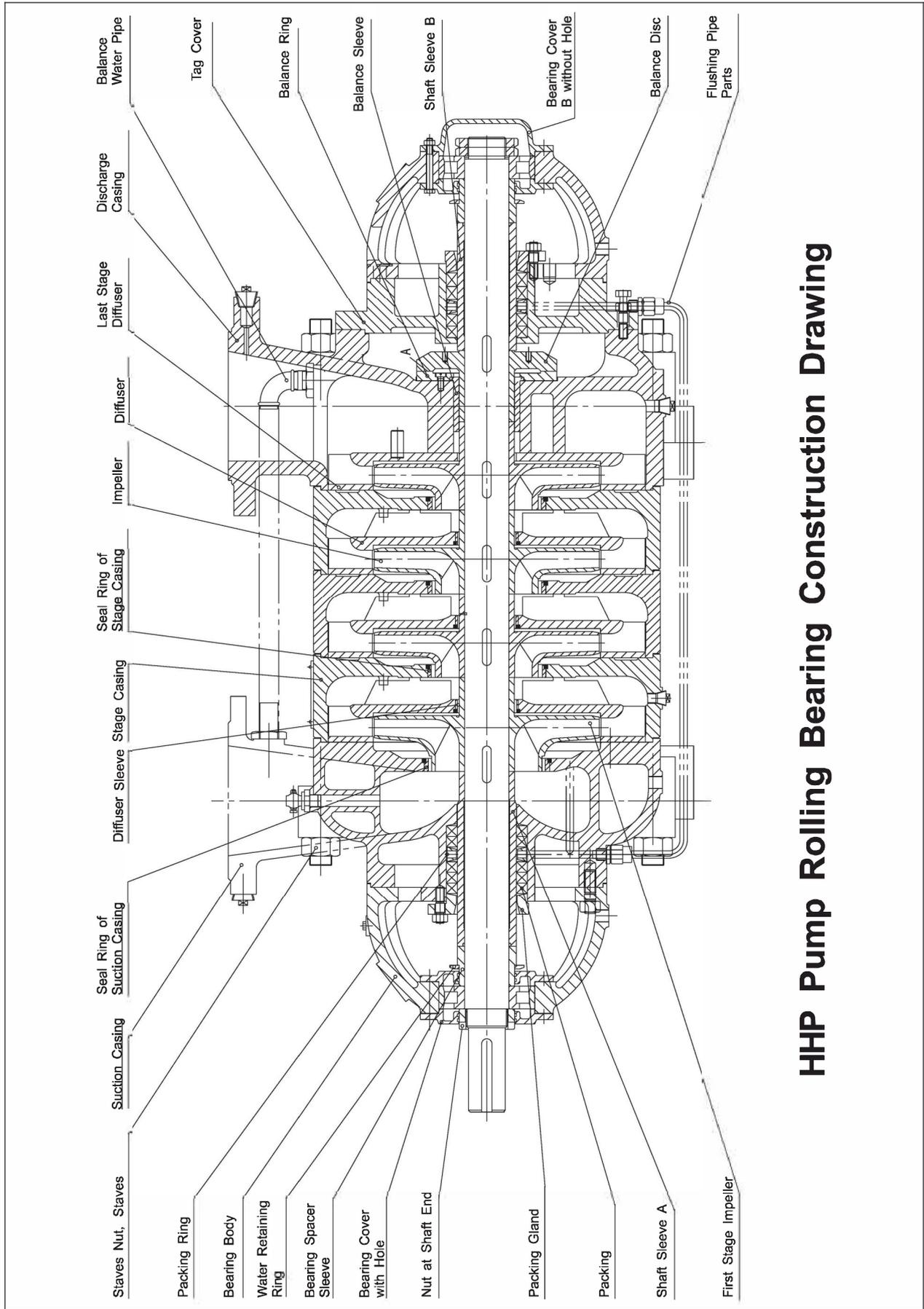


HHP600-80 Overall Dimension Drawing



HHP850-100 Overall Dimension Drawing





HHP Pump Rolling Bearing Construction Drawing

Notes

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201821-CTL-HHP-EN
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