



60Hz

BUFFALO

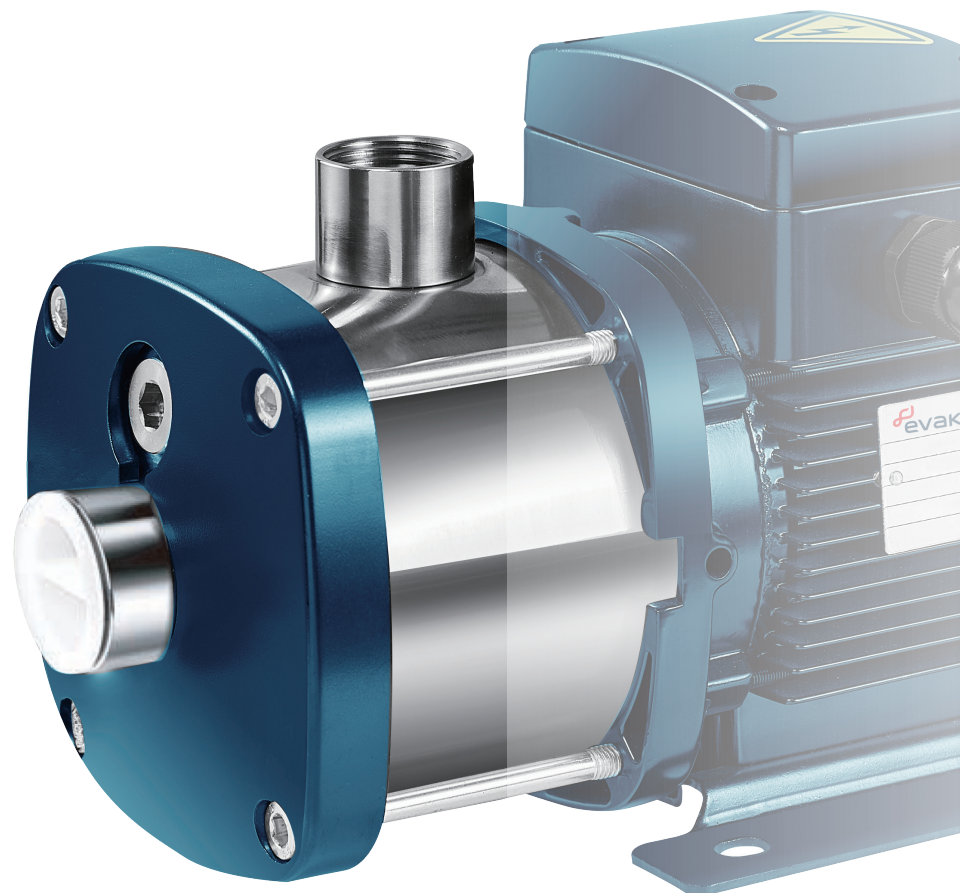
HORIZONTAL MULTISTAGE CENTRIFUGAL PUMP SERIES



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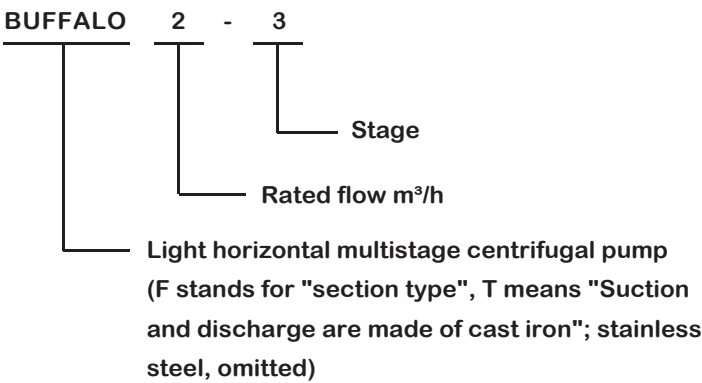


PUMP PARTNERS

WITH THE EXPERIENCE AT THE HELM

Operating conditions

Model No. Definition :



Operation condition

- Liquid temperature: Normal temperature type:-15°C~+70°C
Hot water type:-15°C~+105°C
- Ambient temperature: up to +40°C
- Max.operation pressure:10 bar
- Max.inlet pressure is limited by max. Operation pressure

Curve conditions

- Following conditions are suitable for the performance curves shown above.
- All curves are based on the measured values of 50Hz:
 - Constant motor speed 2900r/min;
 - Curve tolerance in conformity with ISO9906Annex A.
 - Measurement is done with 20°C air-free water, kinematic viscosity of 1mm²scc.
 - The operation of pump shall refer to the performance region described by the thickened curve to prevent over heating due to too small flow rate or overload of motor due to too large flow rate.

Motor

- Full-enclosed air-blast two-pole standard motor
 - Protection class:IP55
 - Insulation class:F
 - Standard voltage: 50HZ: 1 ×220-240V
3 × 220-240V/380-415V
- The maximum power of single-phase motor is 2.4kW.

Application

- Buffalo pump are mainly used in industrial field:
- Air-conditioning system
 - Cooling system
 - Industrial cleaning
 - Water treatment (Water purification)
 - Aquiculture
 - Fertilizing / metering system
 - Environmental application
 - Other special applications

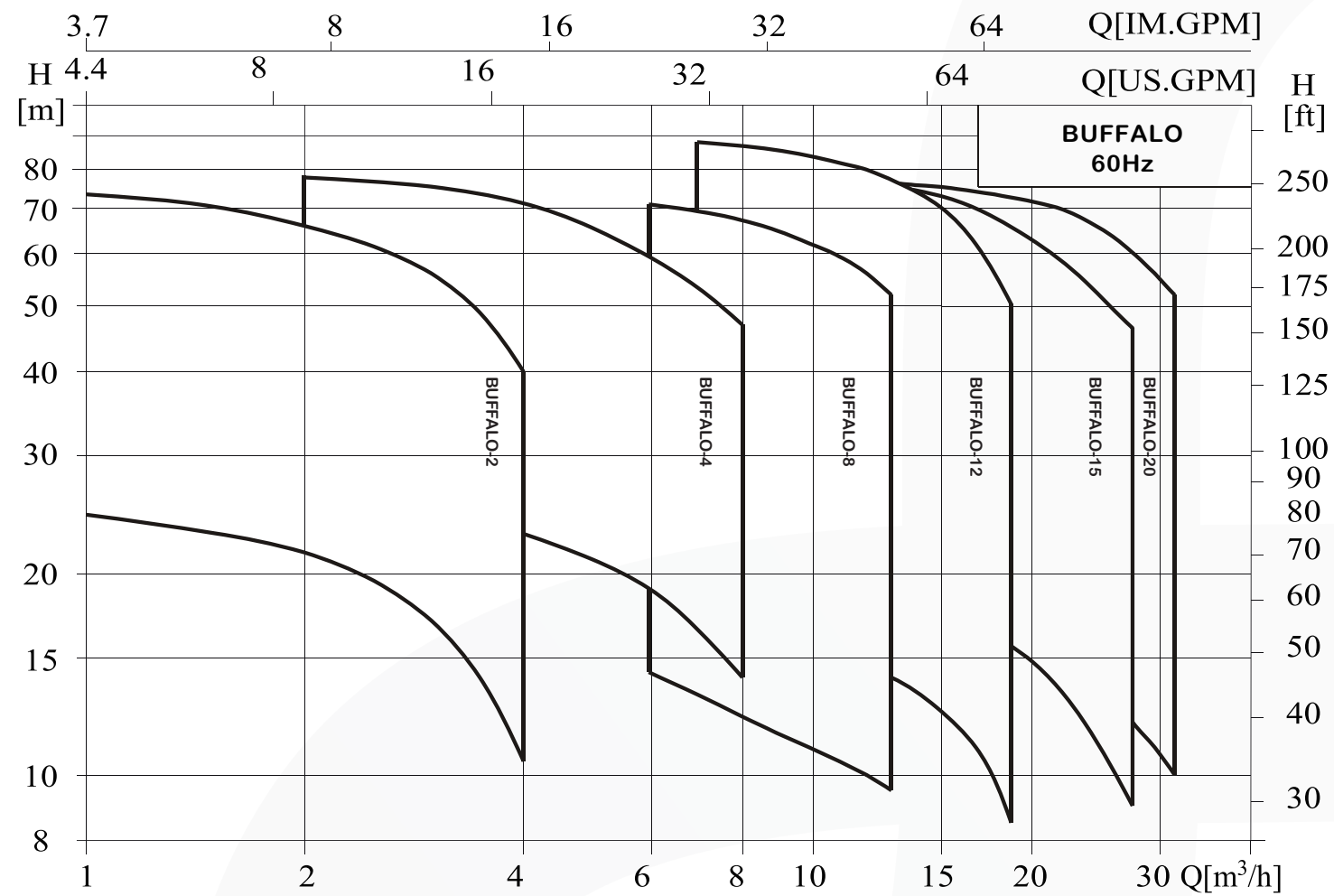
Applicable medium

- Thin and clean non-flammable and non-explosive liquid without solid granules and fibers.
- Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums
- When the density or viscosity of to-be-conveyed liquid is larger than that of water, it is necessary to select a driving motor of high-power.
- Whether a specific liquid is suitable for the pump depends on many factors, among which the most important ones are chlorine content, PH value, temperature, solvent and oil content.

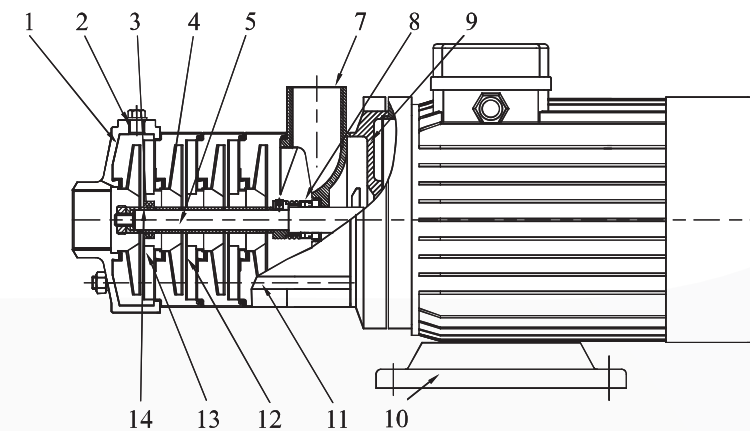
Pump

- Horizontal multistage non-self-priming centrifugal pump, attached with long shaft electric motor.
Compact structure renders small size of pump; axial inlet and radial outlet.

Connection port	BUFFALO 2	BUFFALO 4	BUFFALO 8 12 15 20	BUFFALO 8	BUFFALO 12	BUFFALO 15 20
Inlet	G1	G1 1/4	G2	G1 1/2	G1 1/2	G2
Outlet	G1	G1	G2	G1 1/4	G1 1/2	G2



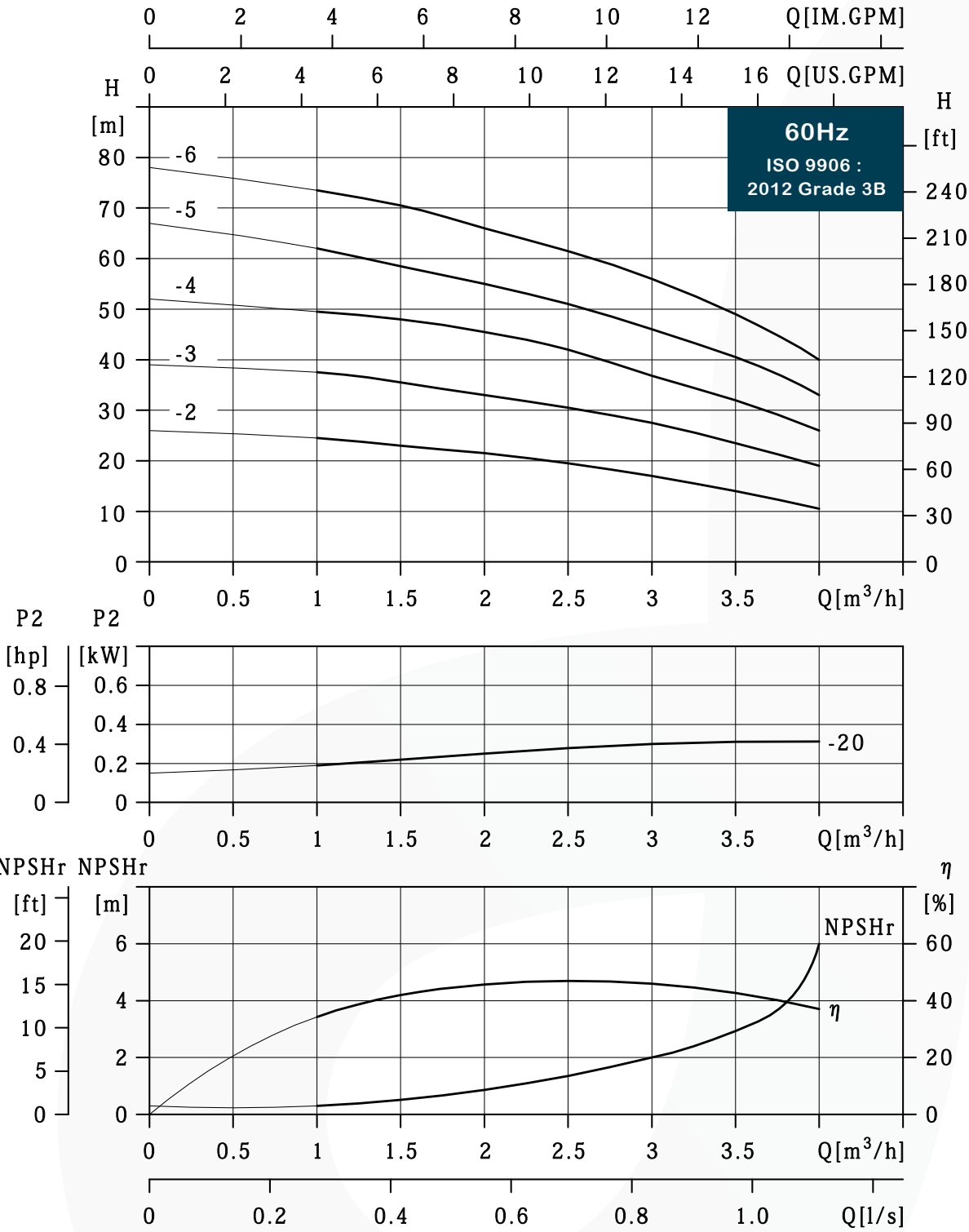
Sectional view



NO.	Name	Material
1	Suction	Stainless steel
2	Plug	Stainless steel
3	Bearing	Tungsten carbide
4	Impeller	Stainless steel
5	Shaft	Stainless steel
7	Discharge	Stainless steel
8	Mechanical seal	Stainless steel
9	Motor end cover	Stainless steel
10	Base plate	Stainless steel
11	Staybolt	Stainless steel
12	Diffuser	Stainless steel
13	Support diffuser	Stainless steel
14	Impeller sleeve	Stainless steel

Data chart - BUFFALO - 2

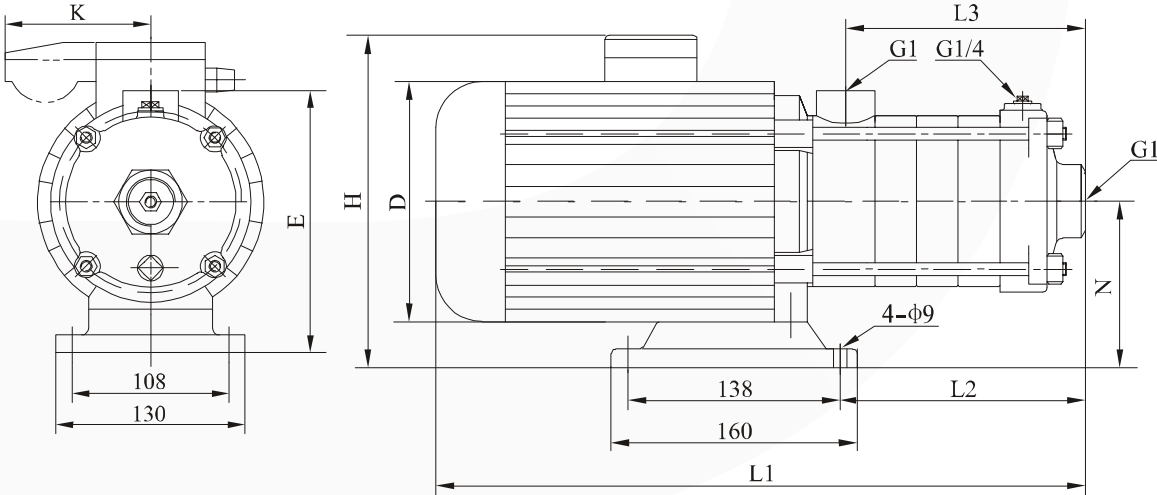
Performance curve



Performance table

Model	Driving motor (kW)	Q (m³/h)	1	1.5	2	2.5	3	3.5	4
BUFFALO2-2	0.55	H (m)	24.5	23	21.5	19.5	17	14	10.5
BUFFALO2-3	0.75		37.5	35.5	33	30.5	27.5	23.5	19
BUFFALO2-4	1.1		49.5	48	45.5	42	36	32	26
BUFFALO2-5	1.1		62	58.5	55	51	46	40.5	33
BUFFALO2-6	1.1		73.5	70.5	66	61.5	56	49	40

Installation sketch

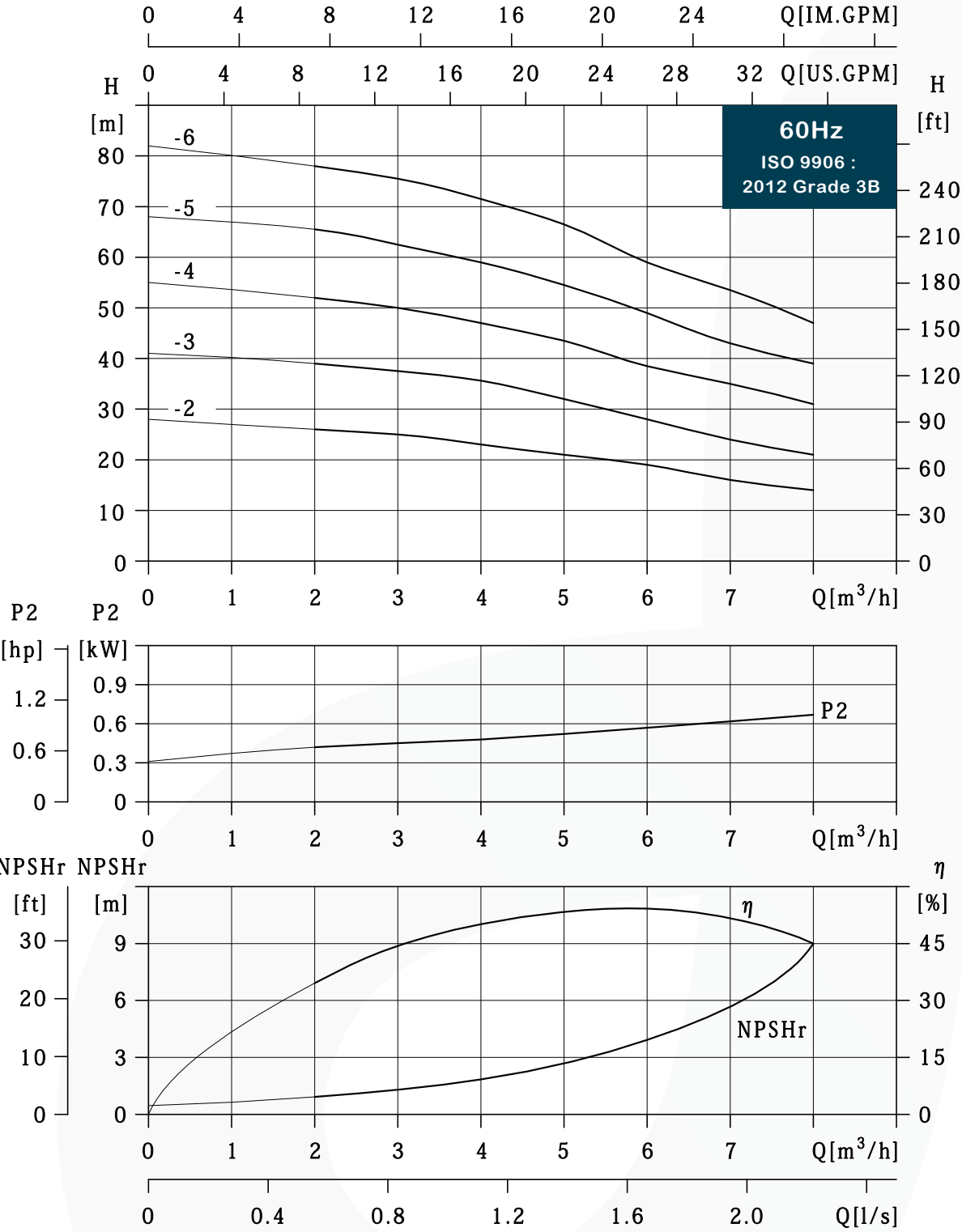


Size and weight

Motor	Model	Size(mm)								Weight (kg)
		L1	L2	L3	H	N	D	E	K	
Three-phase/ single-phase	BUFFALO2-2	305	87	84	230/230	110	141	182	/62	15
	BUFFALO2-3	370	105	102	230/245	110	151/161	182	/91	17
	BUFFALO2-4	388	123	120	230/245	110	151/161	182	/91	17
	BUFFALO2-5	406	141	138	230/245	110	151/161	182	/91	17
	BUFFALO2-6	424	159	156	230/245	110	151/161	182	/91	17

Data chart - BUFFALO - 4

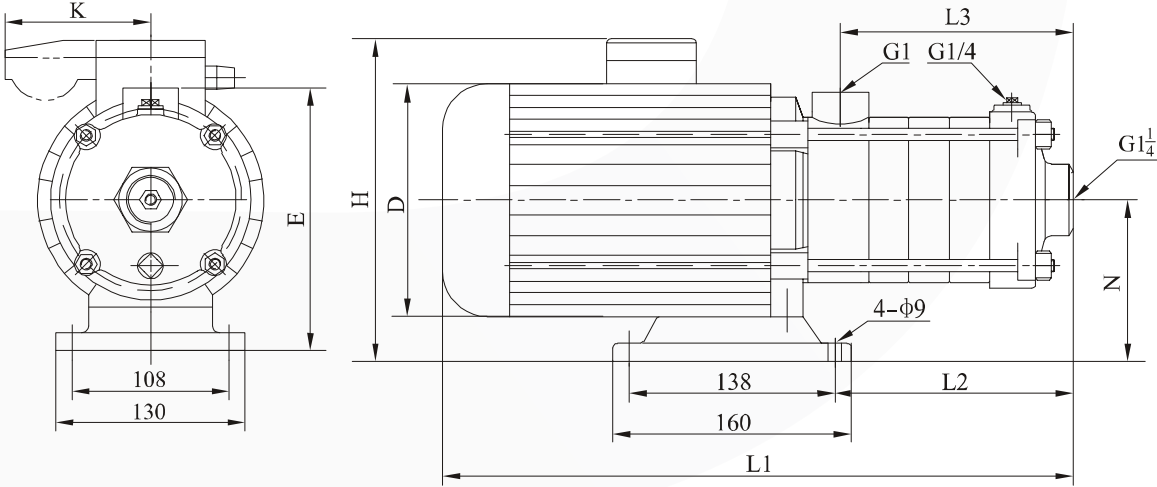
Performance curve



Performance table

Model	Driving motor (kW)	Q (m³/h)	2	3	4	5	6	7	8
BUFFALO4-2	0.75	H (m)	26	25	23	21	19	16	14
BUFFALO4-3	1.1		39	37.5	36	32	28	24	21
BUFFALO4-4	1.5		52	50	47	43.5	38.5	35	31
BUFFALO4-5	2.2		65.5	62.5	59	54.5	49	43	39
BUFFALO4-6	2.2		78	75.5	71.5	66.5	59	53.5	47

Installation sketch

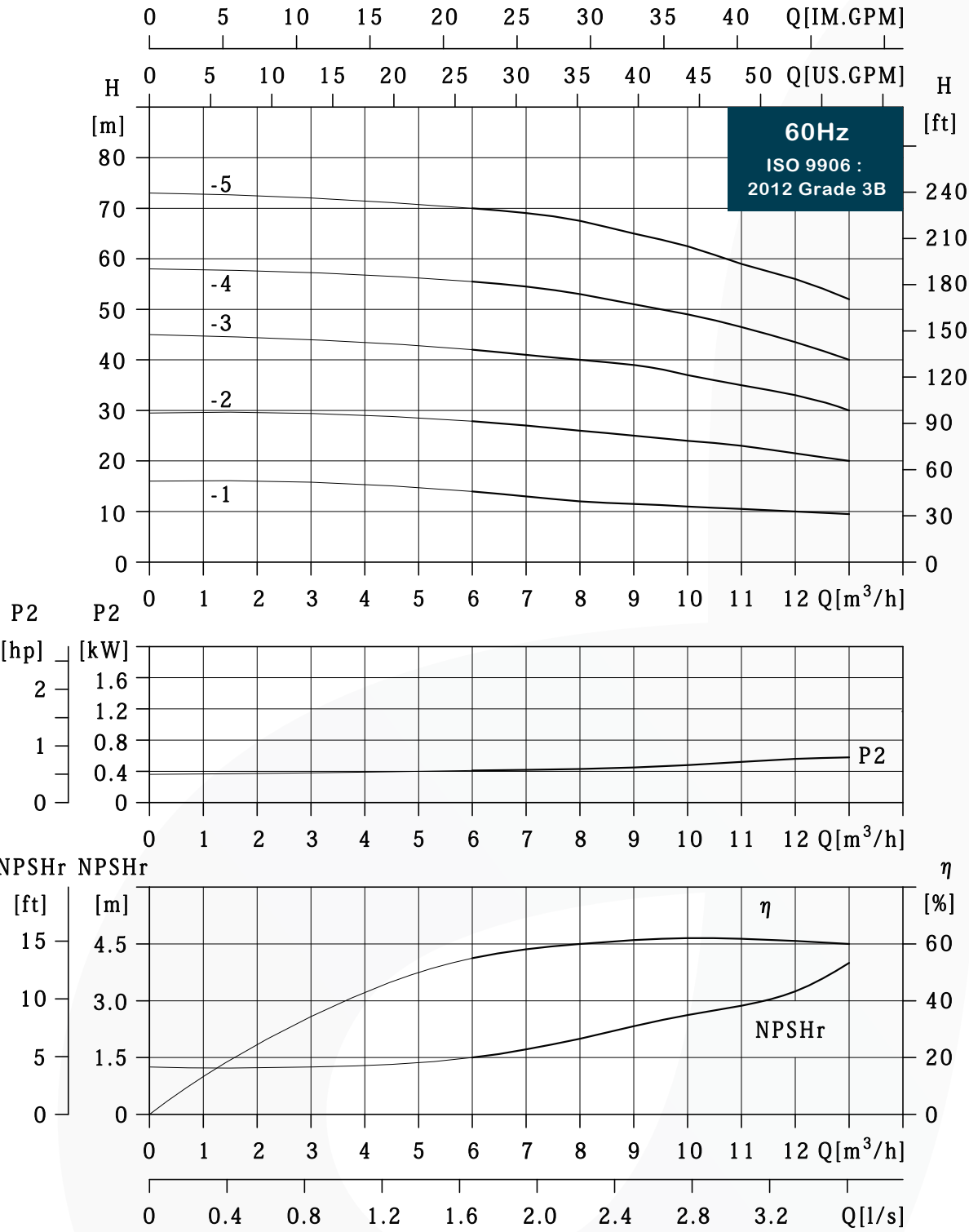


Size and weight

Motor	Model	Size(mm)								Weight (kg)
		L1	L2	L3	H	N	D	E	K	
Three-phase/ single-phase	BUFFALO4-2	359	105	102	230/245	110	151/161	182	/91	15
	BUFFALO4-3	395	132	129	230/245	110	151/161	182	/91	17
	BUFFALO4-4	465	159	156	240/260	118	171/176	190	/91	20
	BUFFALO4-5	492	186	183	240/260	118	171/176	190	/91	25
	BUFFALO4-6	519	213	210	240/260	118	171/176	190	/91	25

Data chart - BUFFALO - 8

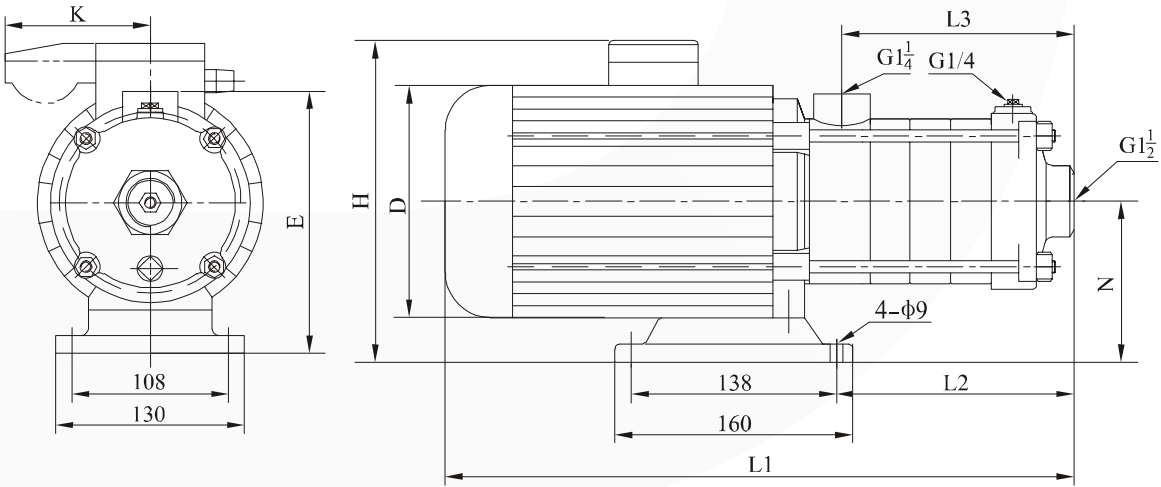
Performance curve



Performance table

Model	Driving motor (kW)	Q (m³/h)	6	7	8	9	10	11	12	13
BUFFALO8-1	0.75	H (m)	14.5	13	12	11.5	11	10.5	10	9.5
BUFFALO8-2	1.5		29	27	26	25	24	23	21.5	20
BUFFALO8-3	2.2		42	41	40	39	37	35	33	30
BUFFALO8-4	3		55.5	54.5	53	51	49	46.5	43.5	40
BUFFALO8-5	3		71	69.5	67.5	65	63	59	56	52

Installation sketch

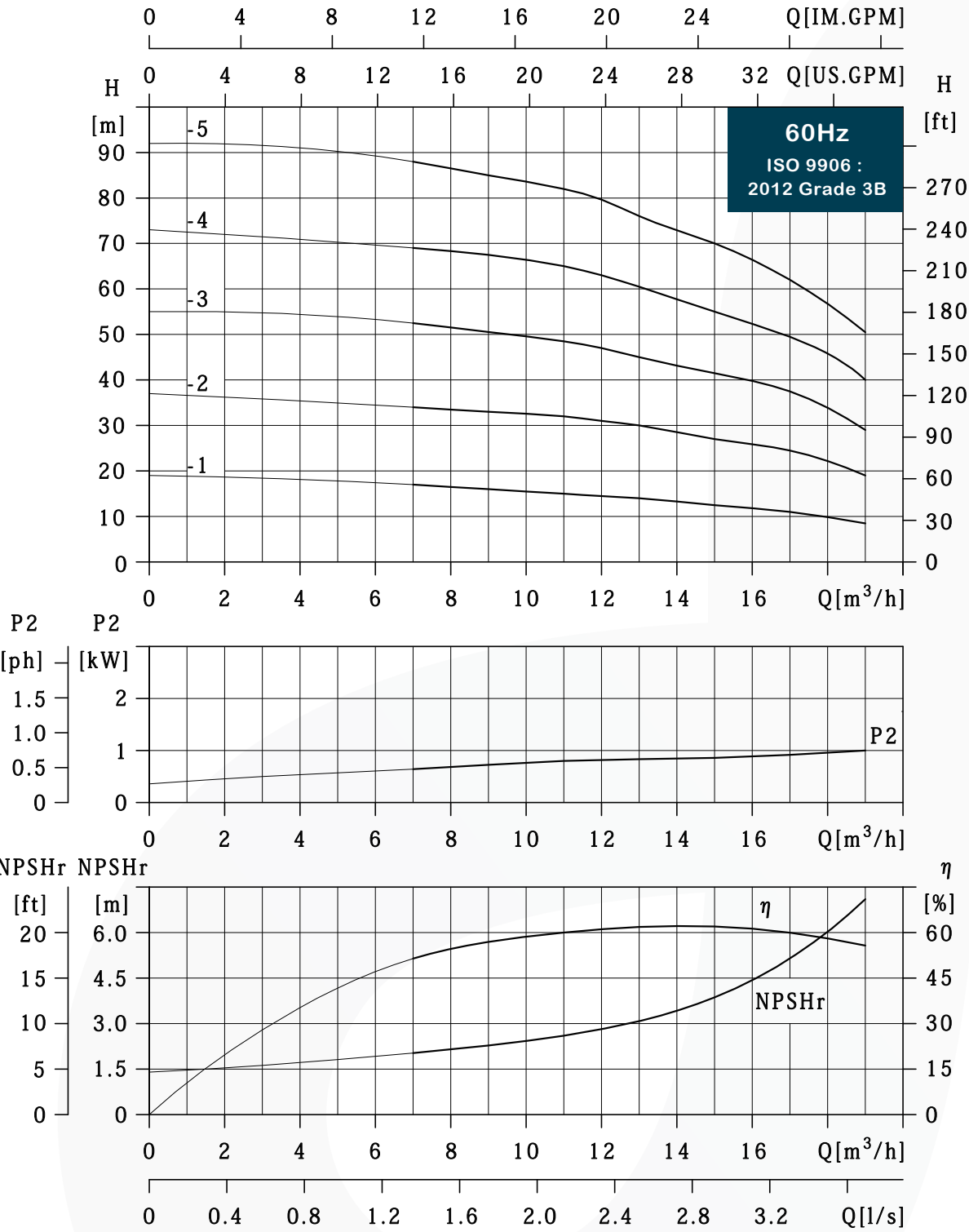


Size and weight

Motor	Model	Size(mm)								Weight (kg)
		L1	L2	L3	H	N	D	E	K	
Three-phase/ single-phase	BUFFALO8-1	395	128	108	230/265	117	151/156	227	/91	22
	BUFFALO8-2	430	128	108	240/270	118	171/176	228	/91	25
	BUFFALO8-3	460	158	138	240/270	118	171/176	228	/91	27
	BUFFALO8-4	550	188	168	259/	128	197/	238	/	32
	BUFFALO8-5	580	218	198	259/	128	197/	238	/	32

Data chart - BUFFALO - 12

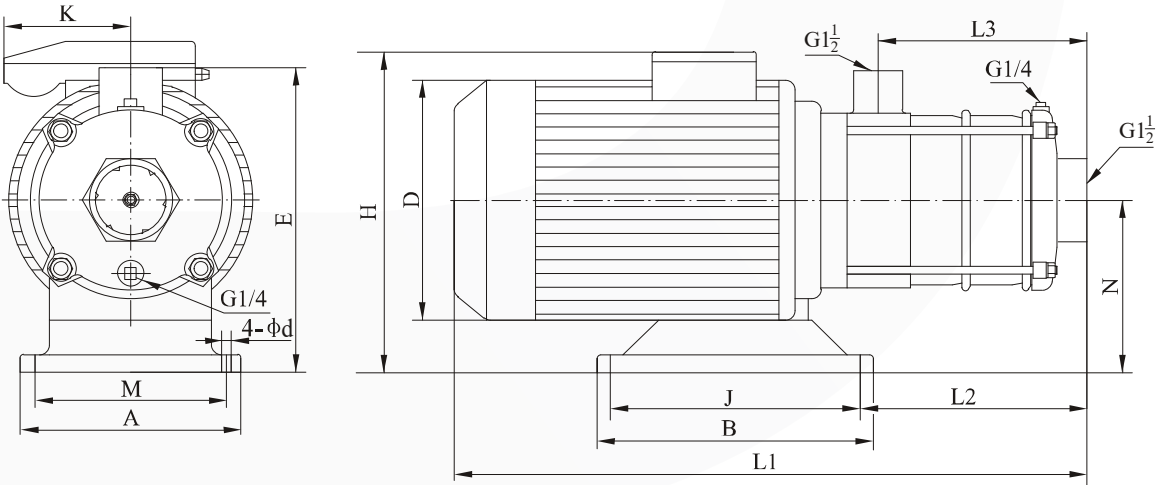
Performance curve



Performance table

Model	Driving motor (kW)	Q (m³/h)	7	9	11	12	13	15	17	19
BUFFALO12-1	1.1	H (m)	17	16	15	14.5	14	12.5	11	8.5
BUFFALO12-2	2.2		34	33	32	31	30	27	24.5	19
BUFFALO12-3	3		52.5	50	48.5	47	45	41.5	37.5	29
BUFFALO12-4	4		69	67.5	65	63	60.5	55	49.5	40
BUFFALO12-5	5.5		88	85	82	80	76	70	62	50.5

Installation sketch

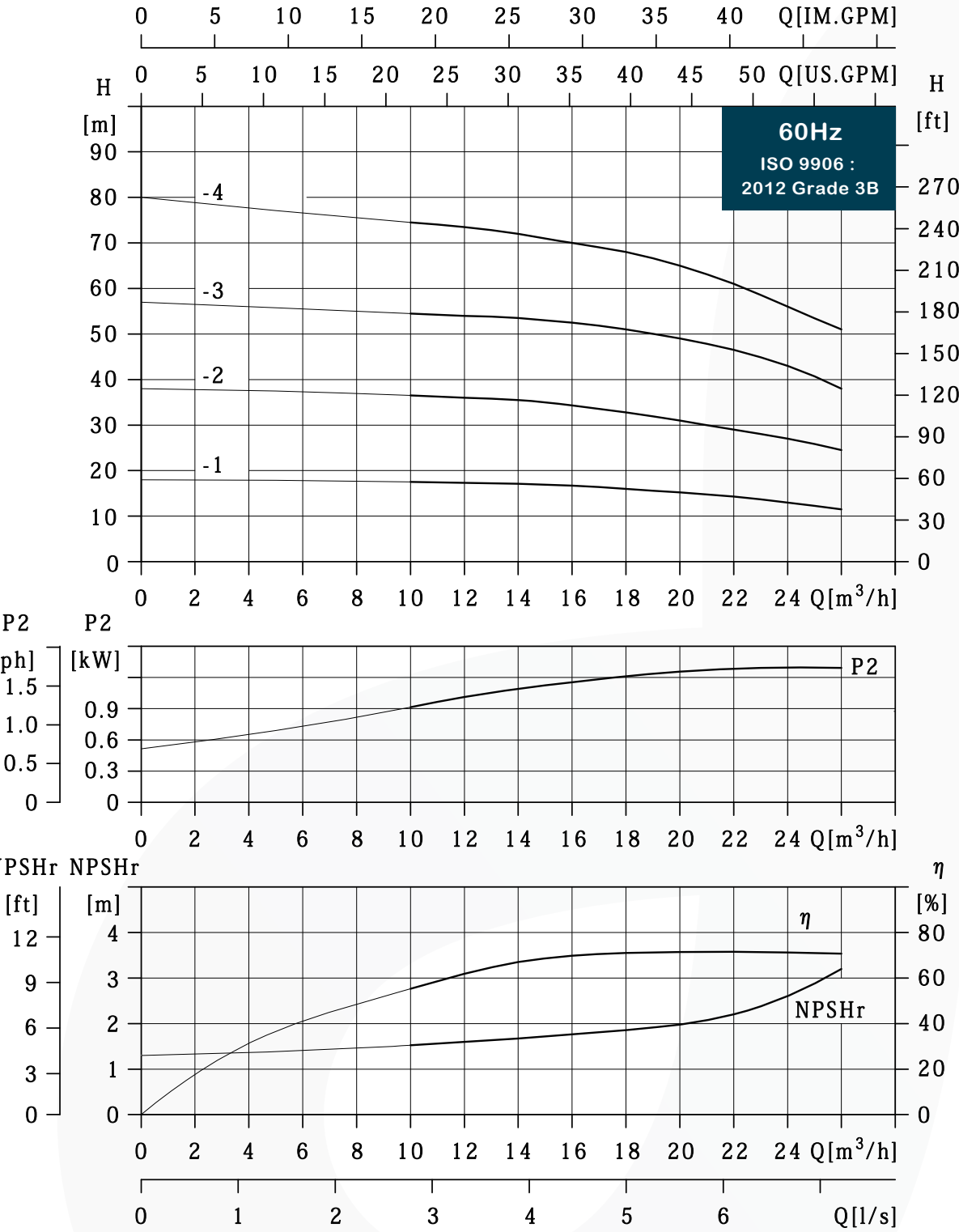


Size and weight

Motor	Model	Size(mm)													Weight (kg)
		L1	L2	L3	H	N	D	E	K	A	M	B	J	d	
Three-phase/ single-phase	BUFFALO12-1	375/395	125	108	230/265	117	151/156	227	/91	130	108	160	138	9	22
	BUFFALO12-2	415/426	125	108	240/270	118	171/176	228	/91	130	108	160	138	9	25
	BUFFALO12-3	501/	155	138	259/	128	197/	238	/	130	108	160	138	9	32
	BUFFALO12-4	537/	281	168	270/	120	213/	230	/	220	190	170	140	12	44
	BUFFALO12-5	618/	324	198	300/	132	255/	242	/	248	216	184	140	12	58

Data chart - BUFFALO - 16

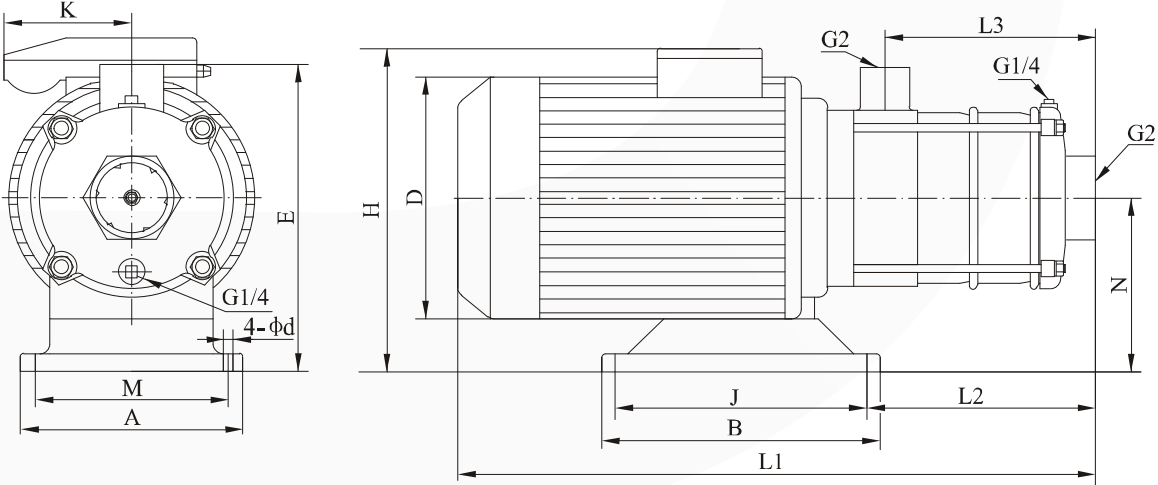
Performance curve



Performance table

Model	Driving motor (kW)	Q (m³/h)	8	12	16	20	24	28
BUFFALO16-1	1.5	H (m)	19	18	17	15	12	9
BUFFALO16-2	3		38.5	36.5	34	31	26	21.5
BUFFALO16-3	4		59	56	53.5	47.5	40.3	33.5
BUFFALO16-4	5.5		78.5	75	72	64	54	46.5

Installation sketch

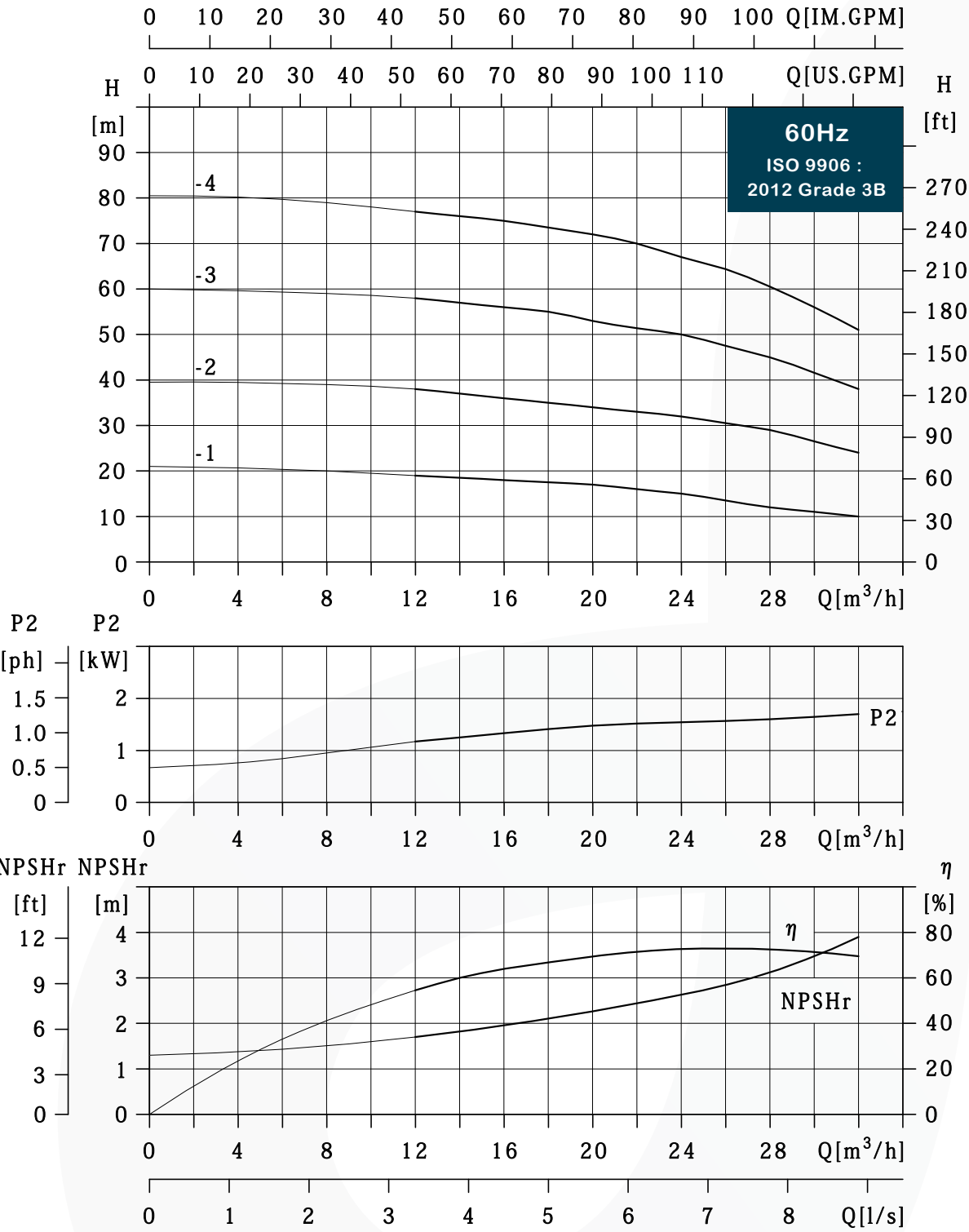


Size and weight

Motor	Model	Size(mm)													Weight (kg)
		L1	L2	L3	H	N	D	E	K	A	M	B	J	d	
Three-phase/ single-phase	BUFFALO16-1	440/451	150	126	240/270	118	171/176	228	/91	130	108	160	138	9	24
	BUFFALO16-2	499/	150	126	259/	128	197/	238	/	130	108	160	138	9	36
	BUFFALO16-3	550/	291	171	270/	120	213/	230	/	220	190	170	140	12	45
	BUFFALO16-4	646/	349	216	300/	132	255/	242	/	248	216	184	140	12	54

Data chart - BUFFALO - 20

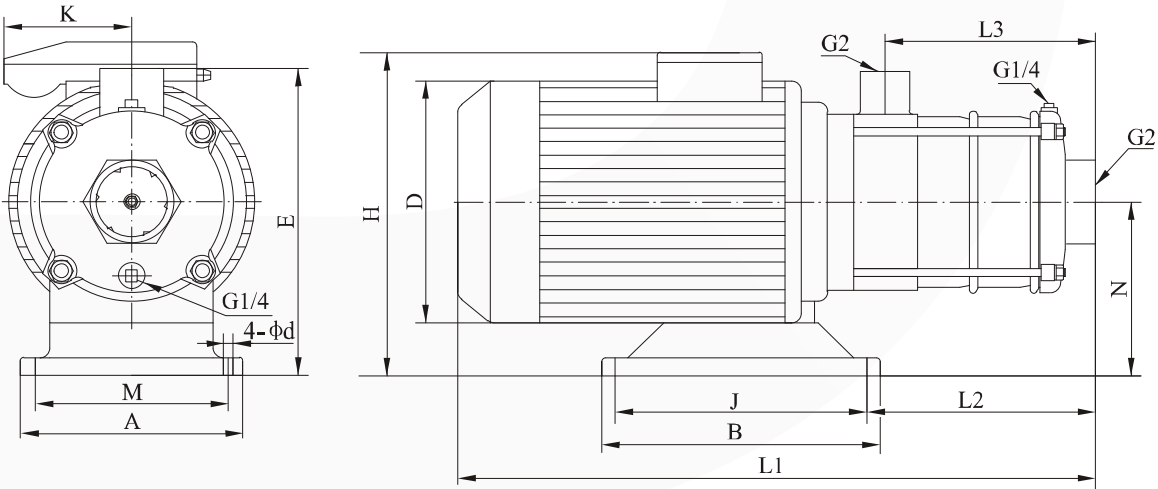
Performance curve



Performance table

Model	Driving motor (kW)	Q (m³/h)	12	14	16	18	20	22	24	26	28	30	32
BUFFALO20-1	2.2	H (m)	19	18.5	18	17.5	17	16	15	13.5	12	11	10
BUFFALO20-2	4		38	37	36	35	34	33	32	30.5	29	26.5	24
BUFFALO20-3	5.5		58	57	56	55	53	51.4	50	47.5	45	41.6	38
BUFFALO20-4	7.5		77	76	75	73.5	72	70	67	65	60.5	56	51

Installation sketch



Size and weight

Motor	Model	Size(mm)													Weight (kg)
		L1	L2	L3	H	N	D	E	K	A	M	B	J	d	
Three-phase/ single-phase	BUFFALO20-1	440/451	150	126	240/270	118	171/176	228	/91	130	108	160	138	9	26
	BUFFALO20-2	502	246	126	270/	120	213/	230	/	220	190	170	140	12	43
	BUFFALO20-3	598/	304	171	300/	132	255/	242	/	248	216	184	140	12	56
	BUFFALO20-4	643/	349	216	300/	132	255/	242	/	248	216	184	140	12	63



Evak's manufacturing happens in Taiwan. As a result we are able to provide complete solutions at competitive prices and outstanding quality, in line with our high quality, high value strategy.

Furthermore, Evak applies "dam management" by ensuring that it has dedicated resources ready to deal with any crisis, at any time. In addition, Evak partners share a big part of the pump market worldwide, which includes developing and distributing products to many large international brands.

Being a one-stop shop, Evak distributes a wide range of pumps with a particular focus on sewage pumps, dewatering pumps and some unique IOT accessories such as the smart digital control DPC that allows online remote monitoring and control of pumps.