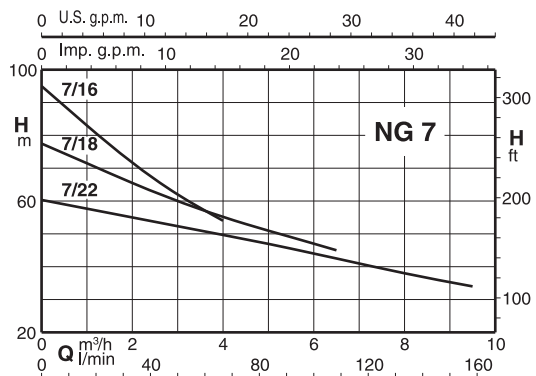
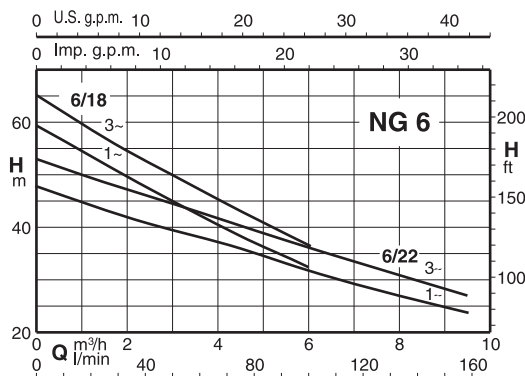
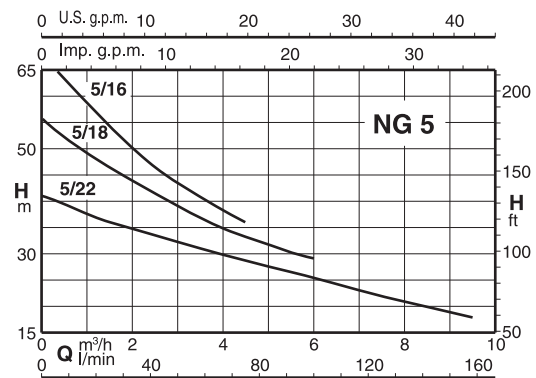
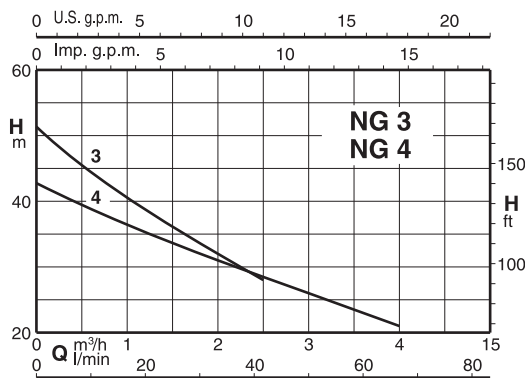


Self-Priming Jet Pumps 自吸噴射式泵浦



Coverage chart - 性能總表

$n \approx 3450$ rpm



Construction

Close-coupled self-priming shallow well jet pumps with built-in ejector.

Connections: threaded ports **ISO 228/1**.
threaded ports **NPT** (ANSI/ASME B1.20.1) on request

NG: version with pump casing and lantern bracket in cast iron.
B-NG: version with pump casing and lantern bracket in bronze (the pumps are supplied fully painted).

Applications

For drawing water out of a well.
As pressure boosting pump for central water systems with low pressure (follow local specifications if increasing network pressure).
For clean liquids or slightly dirty surface water.
For garden use.
For washing with a jet of water.

Operating conditions

Liquid temperature up to 40° C.
Ambient temperature up to 40° C.
Maximum permissible working pressure up to 10 bar.
Continuous duty.

Motor

2-pole induction motor, 60 Hz (n ≈ 3450 rpm).
NG: three-phase 220/380 V, 220/440 V.
NGM: single-phase 110 V, 127 V, 220 V, 110/220 V.
with thermal protector up to 1.1 kW only 220V.
Capacitor inside the terminal box.
Insulation class F.
Protection IP 54.
Classification scheme IE2 for three-phase motors from 0,75 kW.
Constructed in accordance with: EN 60034-1; EN 60034-30.
EN 60335-1, EN 60335-2-41.

Special features on request

- Other voltages.
- Protection IP 55.
- Special mechanical seal

Materials

Components	NG	B-NG
Pump casing Lantern bracket Diffuser plate	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Impeller	Brass P- Cu Zn 40 Pb 2 UNI 5705	
Shaft	Cr steel 1.4104 EN 10088 (AISI 430) for NG 3-4 Cr-Ni steel 1.4305 EN 10088 (AISI 303) for NG 5-6-7	Cr-Ni-Mo steel 1.4401 EN 10088 (AISI 316)
Diffuser Ejector	PPO-GF20 (Noryl)	
Mechanical seal	Carbon - Ceramic - NBR	

結構

直結自吸淺井用噴射式泵浦，內建噴射器。

接口：牙口 **ISO 228/1**

牙口 **NPT**(ANSI/ASME B2.20.1)依需求提供。

NG：泵浦外殼及托架為鑄鐵。

B-NG：泵浦外殼及托架為青銅（泵浦整體烤漆）。

應用

- 井水抽水應用
- 供水系統之加壓應用(按照當地規範)
- 乾淨液體或微髒地面水
- 庭園園藝之應用
- 噴射水柱清洗之應用

操作條件

液體溫度最高至+40°C
周圍溫度最高至40°C
泵浦本體可承受最大壓力值：10 bar
連續運轉

馬達

2極感應電動馬達，60Hz(n=3450 rpm)

NGX：三相220/380V，220/440V

NGXM：單相110V, 127V, 220V, 110/220V

1.1kW以下僅有220V配置過熱保護器。

接線盒內有電容器。

絕緣等級：F

保護等級：IP54

0.75kW以下使用歐盟效能指標高效率IE2三相馬達。

結構設計符合：EN 60034-1; EN 60034-30;

EN 60335-1; EN 60335-2-41之規範。

可依需求客製

- 其他電壓值
- 保護等級IP55
- 特殊機械軸封

材質

零件	NG	B-NG
泵浦外殼 托架 擴散器	鑄鐵 GJL 200 EN 1561	青銅 G-Cu Sn 10 EN 1982
葉片	黃銅 P- Cu Zn 40 Pb 2 UNI 5705	
軸心	NG 3-4 為不鏽鋼 (AISI 430) NG 5-6-7 為不鏽鋼 (AISI 303)	不鏽鋼 1.4401 EN 10088 (AISI 316)
擴散器 噴射器	PPO-GF20 (Noryl) 工程塑料	
機械軸封	碳精 - 陶瓷 - NBR	

Performance for suction lift Hs = 1 m - 性能

n ≈ 3450 rpm

3 ~	1 ~	P2		Q m³/h	H m																		
		kW	HP		0,25	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	8	9	9,5	
NG 3-60/A B-NG 3-60/A	NGM 3-60/A B-NGM 3-60/A	0,55	0,75	H m	4,1	8,3	16,6	25	33,3	41,6	50	58,3	66,6	75	83,3	91,6	100	108	116	133	150	158	
NG 4-60/A B-NG 4-60/A	NGM 4-60/A B-NGM 4-60/A	0,75	1		49	45	40	35	32	27													
B-NG 5/16E-60	B-NGM 5/16E-60	1,1	1,5		42	41	37,5	35	32	30	27	24	22										
B-NG 5/18E-60	B-NGM 5/18E-60	1,1	1,5				54,5	50,5	47	44	41	38,5	36	33,5									
B-NG 5/22E-60	B-NGM 5/22E-60	1,1	1,5				46,5	44,5	42,5	40,5	38,5	37	35	33	31,5	30	28,5						
B-NG 6/18E-60		1,5	2				36,4	35,5	34,5	33,5	32,5	31,6	30,7	29,7	28,7	27,8	27	26	25	23	21	20	
	B-NGM 6/18E-60	1,5	2				60	58	56	53	50	48	45	43	41	39	36						
		1,5	2				54	51	49	46	44	41	39	38	35	34	32						
B-NG 6/22E-60		1,5	2				50	48	47	45	44	42,5	41	40	39	37	36	35	33	31	28	27	
	B-NGM 6/22E-60	1,5	2				44	42,5	41	40	39	37,5	36	35	34	32,5	31,5	30	29	27	25	24	
B-NG 7/16-60/A		2,2	3				82	77	72	67	62	57,5	54										
B-NG 7/18-60/A		2,2	3				71	68	65	63	60	57	55	52,5	51	49	47	45					
B-NG 7/22-60/A		2,2	3				57	56	55	54	52	51	49,5	48	47	45	44	42	41	38	35	33	

B-NG, B-NGM = Bronze construction.
青銅結構。

P2 Rated motor power output.
馬達額定輸出功率。

H Total head in m.
總揚程(單位m)

Tolerances according to UNI EN ISO 9906:2012.
水量誤差值依據UNI EN ISO 9906:2012之標準。

Rated currents - 額定電流

P2		single-phase - 單相 1~					IA/IN
kW	HP	220V IN A	127V IN A	110V IN A	110/220V IN A		
0,55	0,75	5,2	9	10,4	9,2/4,7	3,1	
0,75	1	6,9	12	13,8	12,5/6,4	3,1	
1,1	1,5	8,5	14,7	17	-	3	
1,5	2	10,6	18,4	-	-	3,8	

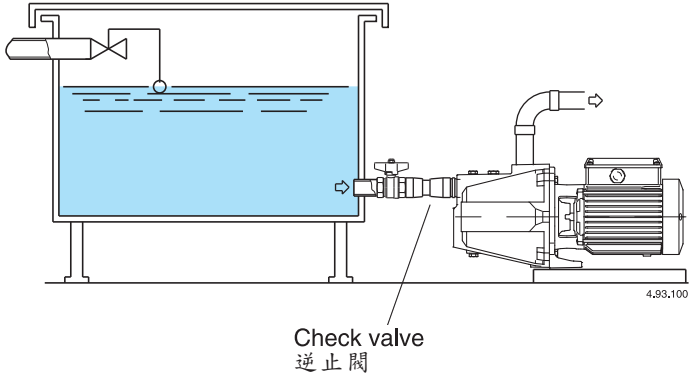
P2		three-phase - 三相 3~			IA/IN
kW	HP	220/380V IN A	220/440V IN A		
0,55	0,75	3,6/2,1	3,8/2,2	3,7	
0,75	1	4,5/2,6	4,7/2,7	6,8	
1,1	1,5	5,7/3,3	6/3,5	5,5	
1,5	2	9/5,2	9,4/5,5	5,4	
2,2	3	11,1/6,4	11,6/6,7	7,3	

P2 Rated motor power output.
馬達額定輸出功率。

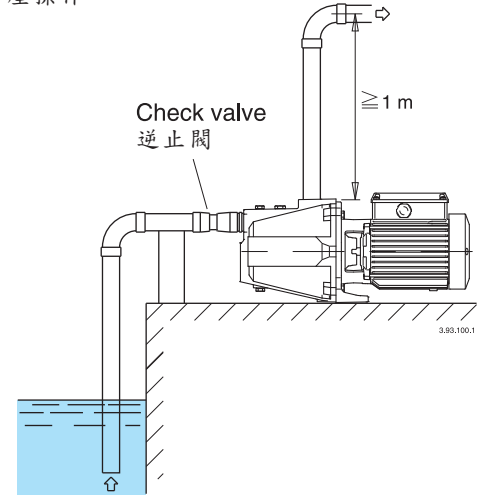
IA/IN D.O.L. starting current / Rated current
啟動電流 / 額定電流。

Installation examples - 安裝說明

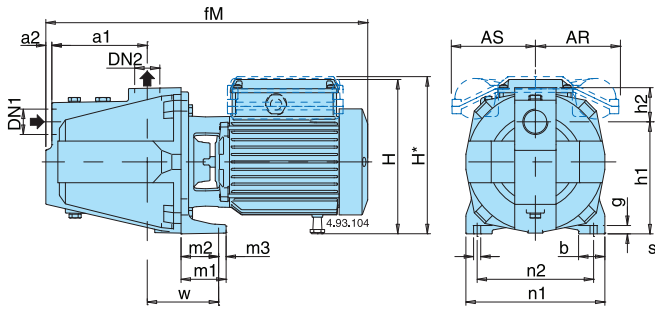
Positive suction head operation
正壓操作



Suction lift operation
負壓操作



Dimensions and weights - 尺寸及重量



TYPE 型號	H*	AR mm			
		220V	127V	110V	110/220V
NGM 3-60/A, B-NGM 3-60/A	212	●	●	●	116
NGM 4-60/A, B-NGM 4-60/A	212	●	116	116	131

- Standard dimensions - 標準尺寸
- Cannot constructed - 未供應

TYPE 型號	H*	AS mm			
		220V	127V	110V	110/220V
NGM 5E-60, B-NGM 5E-60	245	●	131	131	□
NGM 6E-60, B-NGM 6E-60	245	●	131	□	□

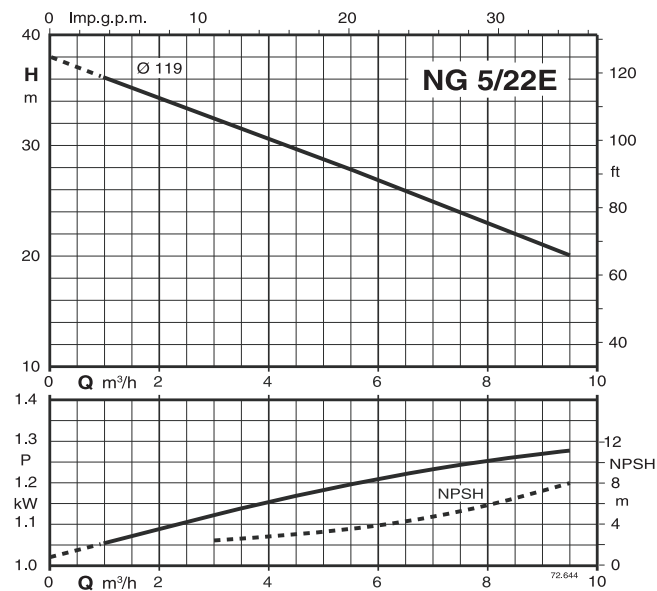
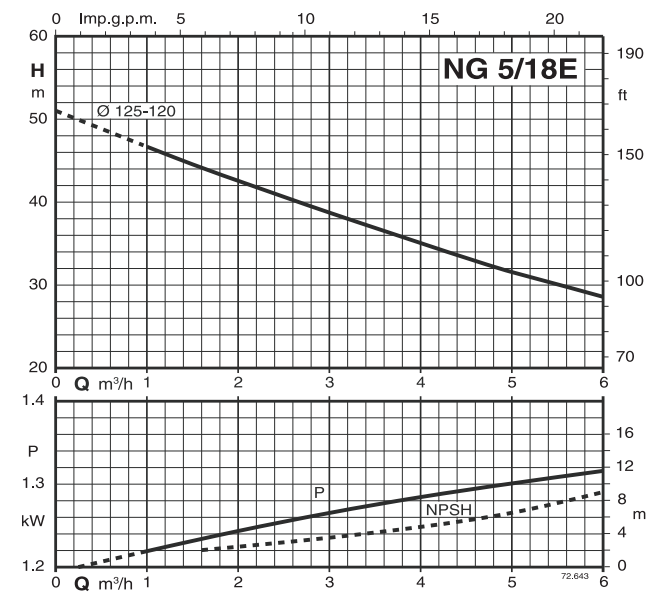
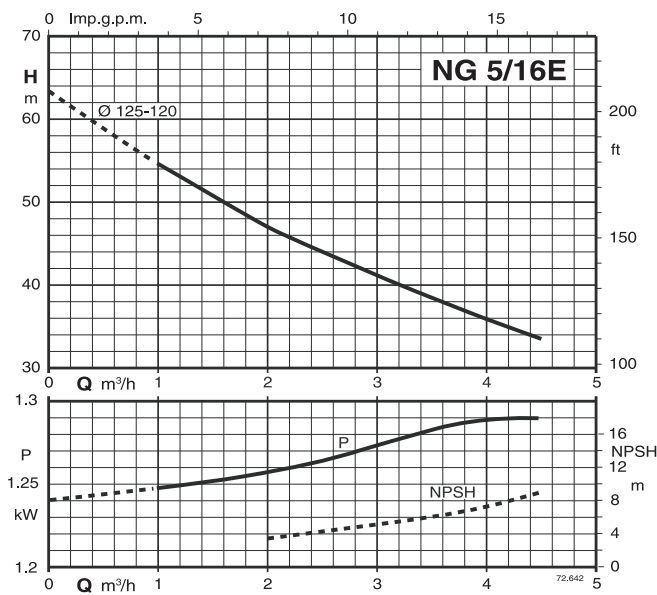
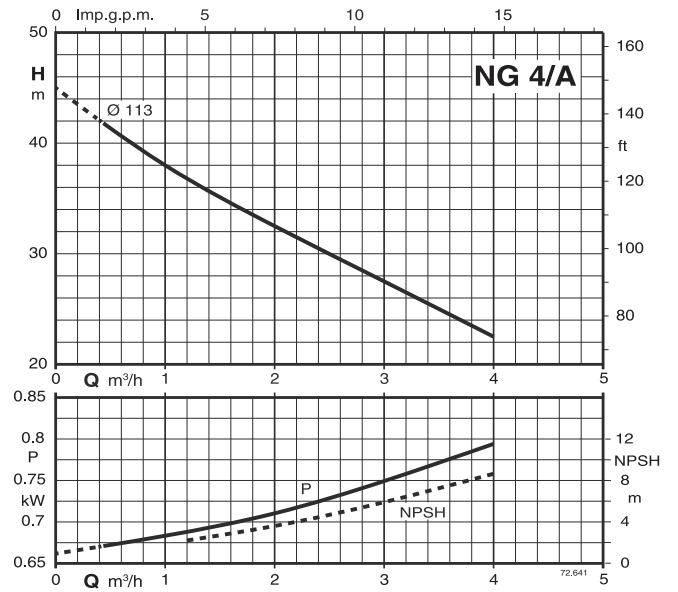
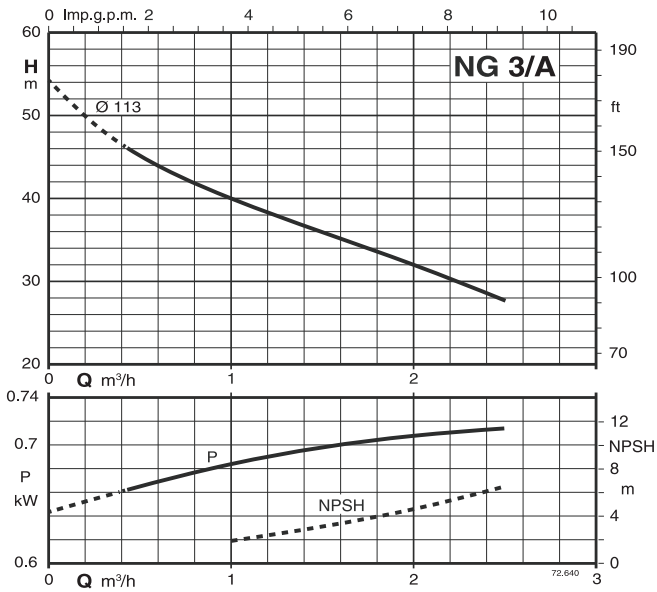
- Standard dimensions - 標準尺寸
- Cannot constructed - 未供應

TYPE 型號	DN ₁ ISO 228	DN ₂	DN NPT	mm														kg		
				a1	a2	fM	h1	h2	H	m1	m2	m3	n1	n2	b	s	w	g	NG	B-NG
NG 3-60/A B-NG 3-60/A NG 4-60/A B-NG 4-60/A	G 1	G 1	✓	127	8	430	150	43	207	60	52	8	185	155	35	9,5	100	11	18,4 19,2	20,8 21,5
NG 5E-60 B-NG 5E-60 NG 6E-60 B-NG 6E-60 NG 7-60/A B-NG 7-60/A	G 1 1/2	G 1	✓	160	10	560 560 600	165	57	240	60	50	10	215	175	40	11,5	115	11	29,2 30,8 31,3	31,6 32,9 33,4

✓ NPT Version on demand - NPT 依需求提供

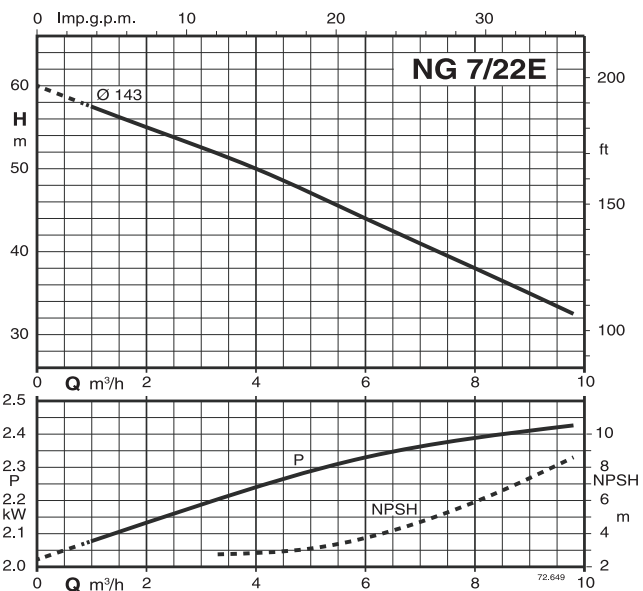
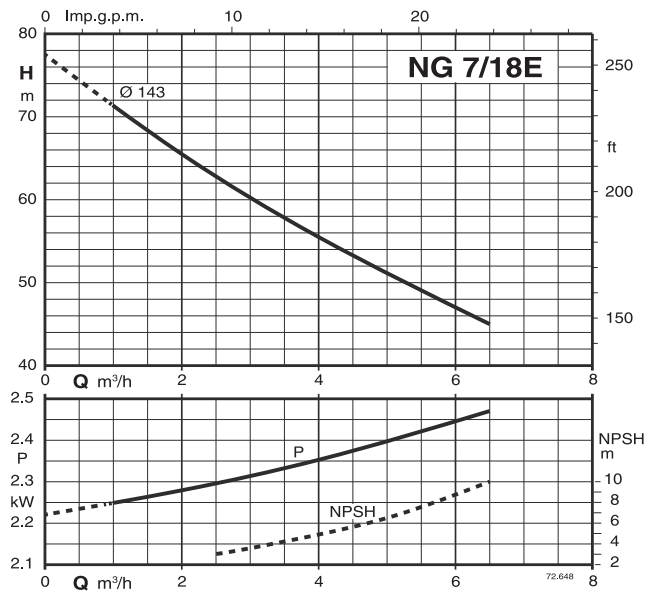
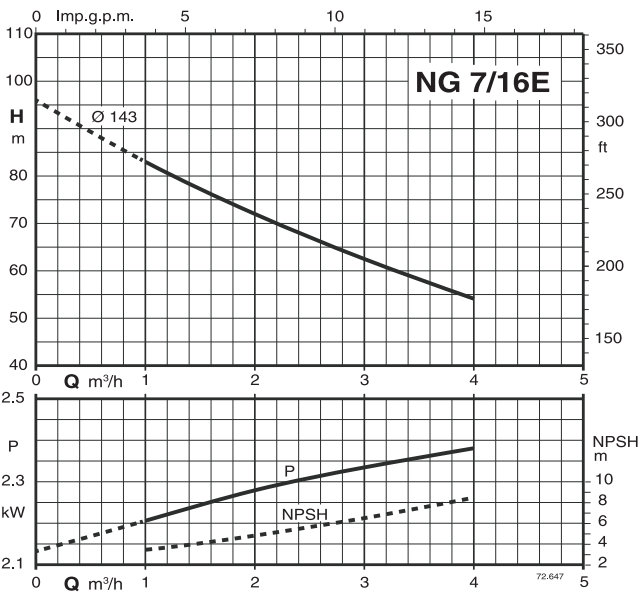
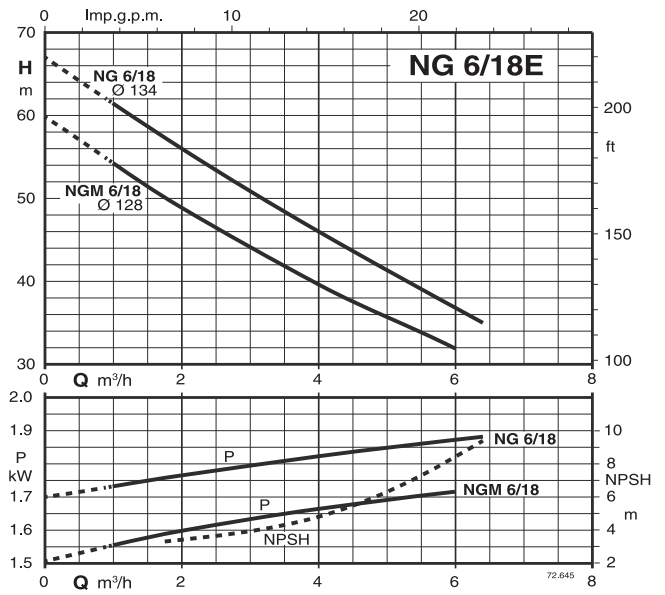
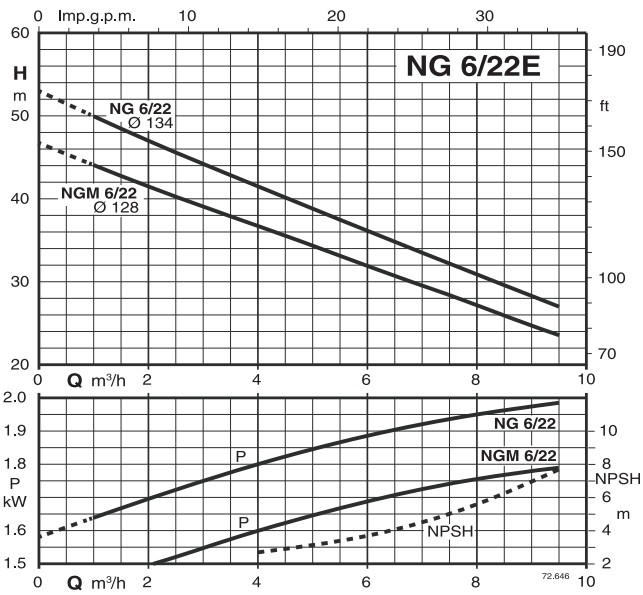
Characteristic curves - 性能曲線

$n \approx 3450 \text{ rpm}$

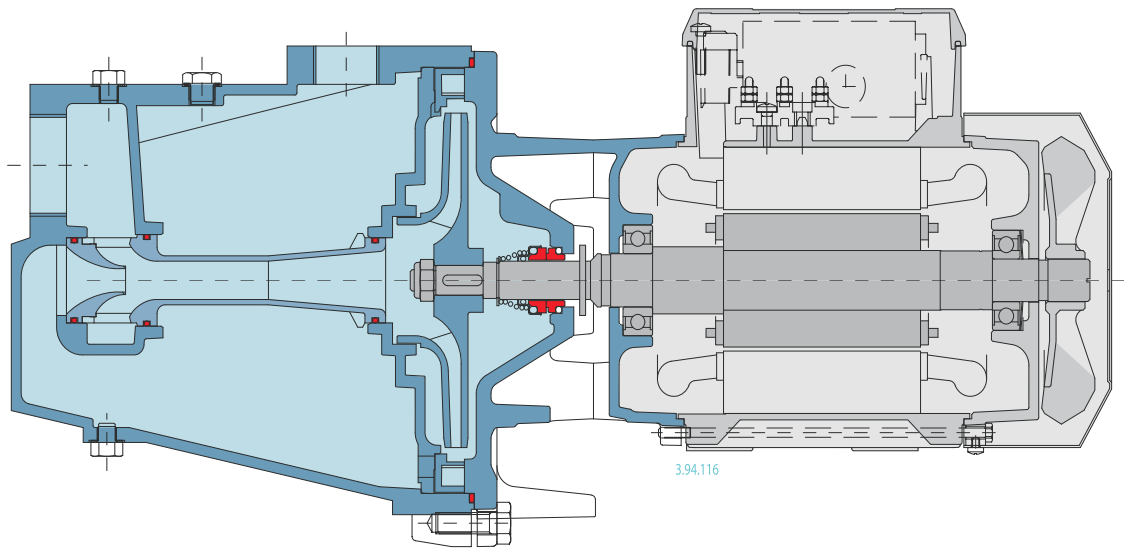


Characteristic curves - 性能曲線

$n \approx 3450 \text{ rpm}$



Features - 性能總表



Robustness

The mechanical structure of the hydraulic parts in contact with the pumped liquid are dimensioned to guarantee the maximum resistance to mechanical stress.

Self priming

The hydraulic design allows the pump to self prime even with the high suction lifts or with long suction pipe runs above the water level.

Flexibility

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows NG series pumps to be selected for use with different types of liquids.

Exclusive design

An innovative, patented guard prevents contact with rotating parts, providing protection to the end user whilst allowing for inspection of the mechanical seal.

堅固

接觸液體的水液壓零件結構，可承受機械最大阻力與壓力。

自吸能力

此款水液壓零件設計可使泵浦在高吸入揚程或入口管較深的情況仍可自吸。

靈活性

接觸液體零件有鑄鐵及青銅材質可供選擇，使NG系列泵浦能適用於不同類型之液體。

獨特設計

創新及專利的防護網，可避免接觸轉動零件，使用者可自行檢查機械軸封。