GPS

GLOBAL PUMP SOLUTIONS LTD

PREMIUM LINE

Warranty 5 Years

GPS-NGL series Self-Priming Jet Pumps

Construction

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

Applications

For drawing water out of a well.
For lifting water containing air or other gases.
For increasing water pressure from flooded suction applications.
As pressure boosting pump for central water systems with low pressure (follow local specifications if increasing network pressure).
For garden use.
For washing with a jet of water.

Operating conditions

Liquid temperature: 0 °C to +35 °C.
Ambient temperature up to +40 °C.
Suction lift up to 9 m.
Maximum permissible pressure in the pump casing: 8 bar.
Continuous duty.

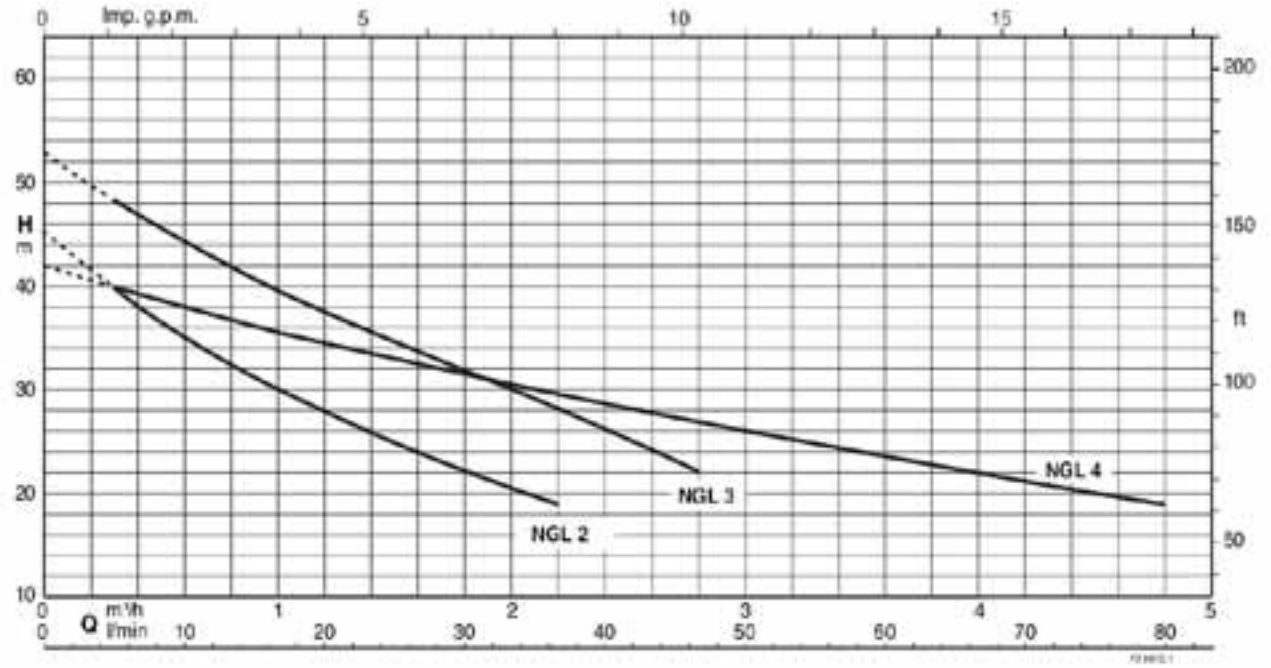
Materials

Component	Material
Pump casing	Cast iron GJL 200 EN 1561
Casing cover	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Impeller	Brass P-Cu Zn 40 Pb 2 UNI 5705
Wear ring impeller-diffuser	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Diffuser	PPO-GF20 (Noryl)
Ejector	PPO-GF20 (Noryl)
Shaft	Chrome steel 1.4104 EN 10088 (AISI 430)
Mechanical seal	Carbon - Ceramic - NBR

Motor

2-pole induction motor, 50 Hz (n = 2800 1/min).
NGL: three-phase 230/400 V ± 10%.
NGLM: single-phase 230 V ± 10%, with thermal protector. Capacitor inside the terminal box.
Insulation class F.
Protection IP 54.
Constructed in accordance with: EN 60335-2-41.

Characteristic curves n ≈ 2800 rpm



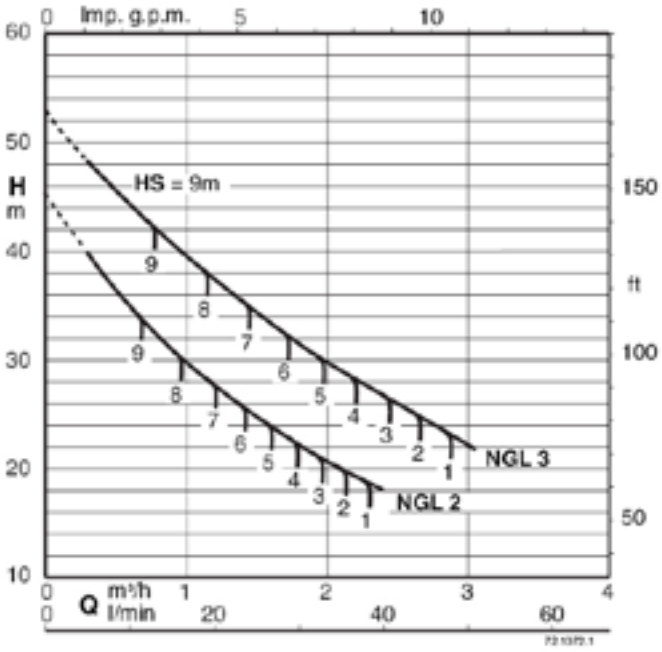
GPS-NGL series Self-Priming Jet Pumps

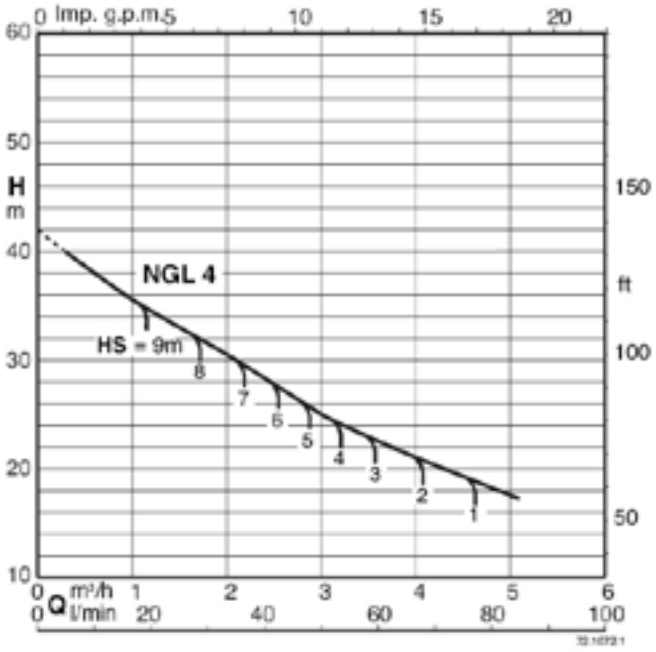
Technical data n ≈ 2800 rpm

3~	230V	400V	1~	230V	P1	P2		Q m³/h	0	0,3	1	2	2,3	2,8	4	4,5	4,8
	A	A		A	kW	kW	HP	l/min	0	5	16,6	33,3	38,3	46,6	66,6	75	80
NGL 2	2,8	1,6	NGLM 2	3,3	0,7	0,45	0,6	H m	45	40	30	20,5	19				
NGL 3	2,8	1,6	NGLM 3	4,2	0,9	0,55	0,75		53	48	39	30	28	22			
NGL 4	3,5	2	NGLM 4	5,4	1	0,75	1		42	40	36	31	29	27	22	20,5	19

P1 Max. power input. P2 Rated motor power output. Tolerances according to ISO 9906, annex A.

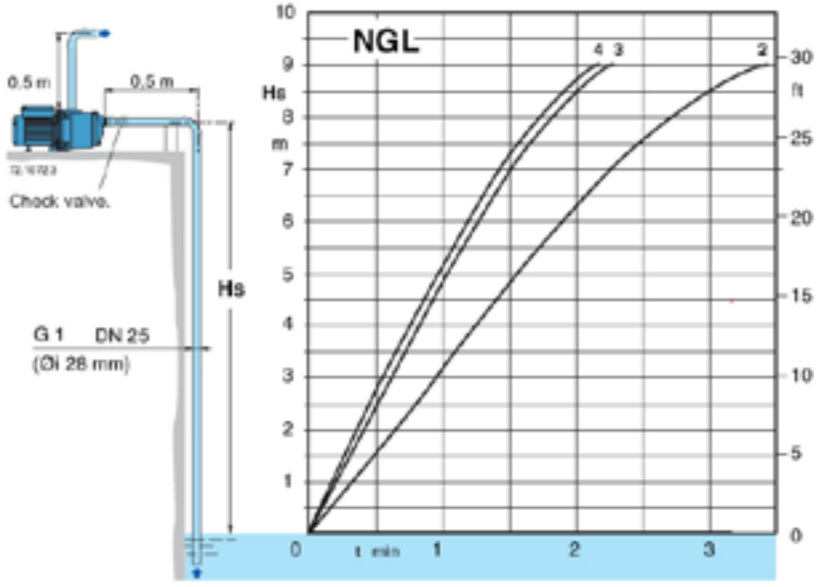
Characteristic Curves for different suction lifts Hs





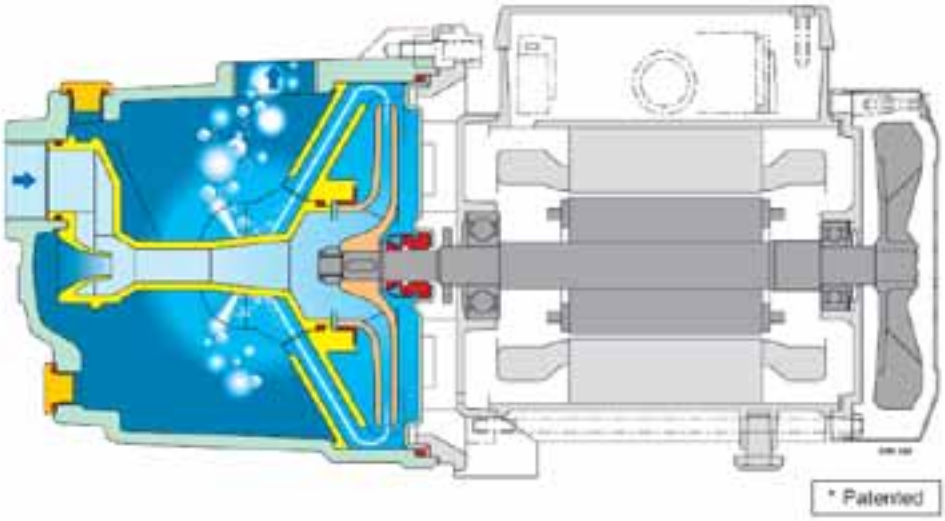
Self-priming capability

50 Hz (n ≈ 2800 1/min), H2O, T = 20°C, Pa = 1000 hPa (mbar)



Hs (m) Suction lift.
t (min) Self-priming time.

Features



A different jet pump with new features
Not just another jet pump.
An exclusive diffuser design with flow control device* provides for compact construction, fast self-priming capability and low noise.

Reliable
With new design features the NGL is more robust and forgiving when temporary abnormal operating conditions may exist.

Compact
The NGL is smaller than conventional pumps of a similar type, allowing for installation in restricted spaces and providing for easier retrofit applications.

Safe
Fast air evacuation reduces the risk of air-pockets developing at the mechanical seal preventing the danger of seal failure due to a lack of flushing and cooling.

Better self-priming
The NGL are capable of lifting water from depths of 9 m in less than 3 minutes, offers new possibilities on suction lift applications and provides better trouble free service on normal shallow-well suction lift duties, also with a long suction pipe above the water level.

Low noise
The new diffuser and flow control device* guide the fluid from the impeller into the central part of the pump casing, reducing turbulence and velocity, with effective use of the surrounding liquid in dampening the noise of flow.

GPS-NGX series Self-Priming Jet Pumps

Construction

Close-coupled self-priming shallow-well jet pump with built-in ejector.
A high-quality pump for domestic water supply. Designed with environmental considerations, featuring a stainless steel casing, brass alloy impeller with minimal use of plastic materials.

Applications

For drawing water out of a well.
For lifting water containing air or other gases.
For increasing water pressure from flooded suction applications.
As pressure boosting pump for central water systems with low pressure (follow local specifications if increasing network pressure).
For garden use.
For washing with a jet of water.

Operating conditions

Liquid temperature: 0 °C to +35 °C.
Ambient temperature up to +40 °C.
Suction lift up to 9 m.
Maximum permissible pressure in the pump casing: 8 bar.
Continuous duty.

Materials

Component	Material
Pump casing	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Casing cover	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Impeller	Brass P-Cu Zn 40 Pb 2 UNI 5705
Wear ring impeller-diffuser	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Diffuser Ejector	PPO-GF20 (Noryl) PPO-GF20 (Noryl)
Shaft	Chrome steel 1.4104 EN 10088 (AISI 430) Cr-Ni steel 1.4305 EN 10088 (AISI 303) for NGX 5,6
Mechanical seal	Carbon - Ceramic - NBR

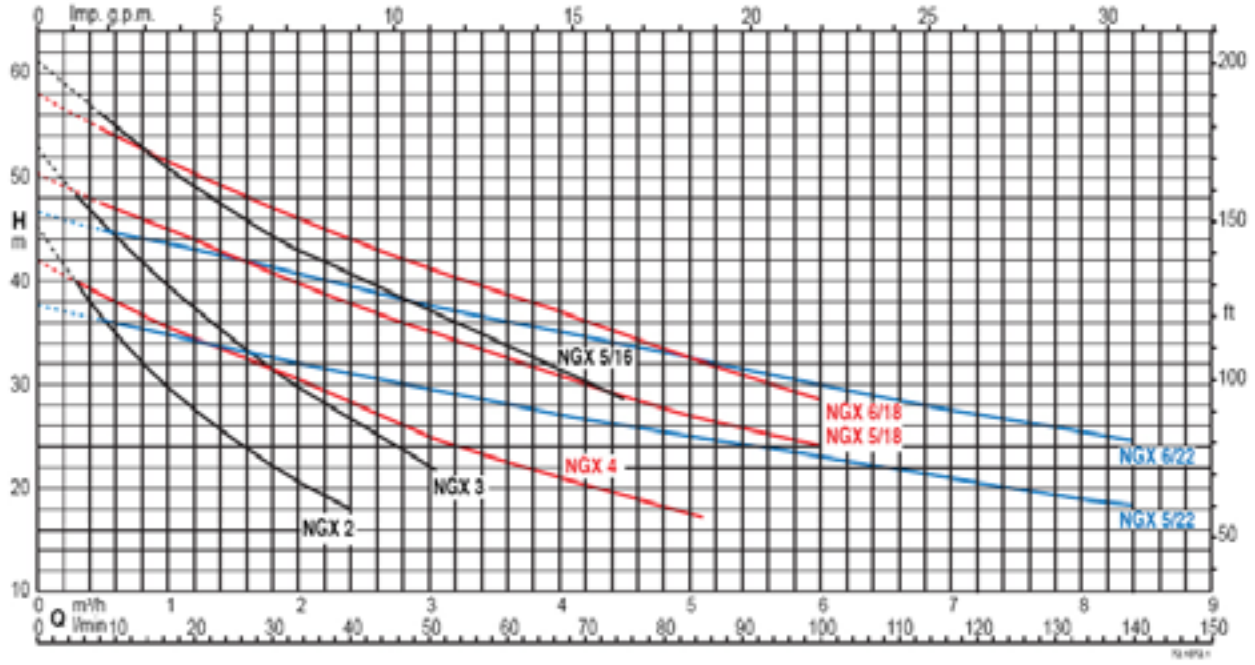
Motor

2-pole induction motor, 50 Hz (n = 2800 1/min).

NGX: three-phase 230/400 V ± 10%.
NGXM: single-phase 230 V ± 10%, with thermal protector. Capacitor inside the terminal box.

Insulation class F.
Protection IP 54.
Constructed in accordance with: EN 60335-2-41.

Characteristic curves *n ≈ 2800 rpm*



GPS-NGX series Self-Priming Jet Pumps

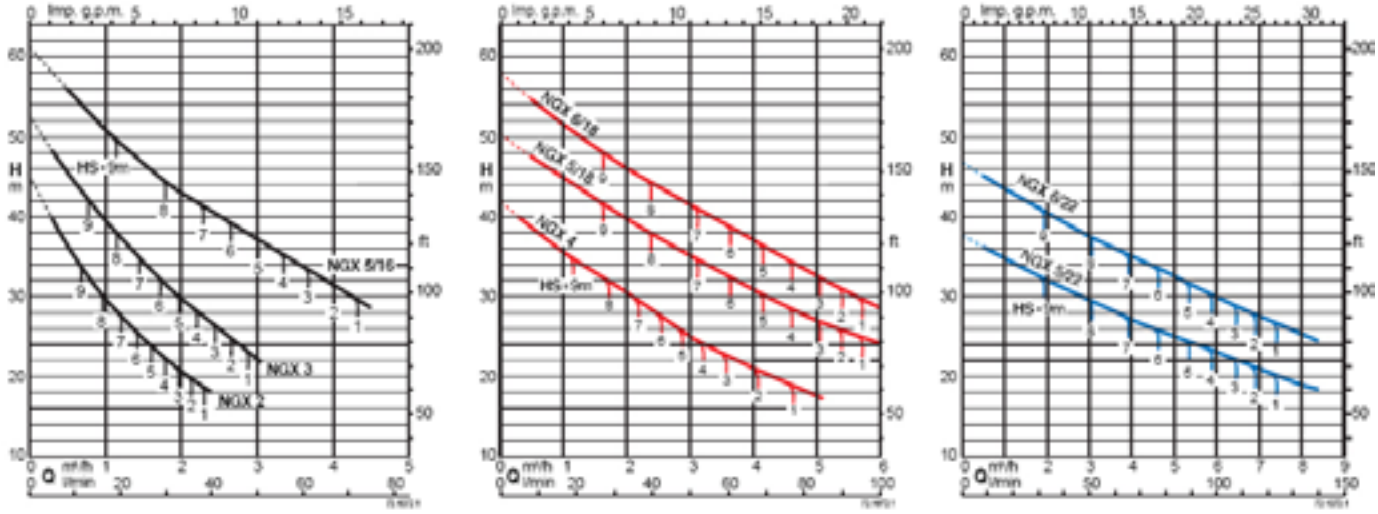
Technical data *n = 2800 rpm*

3~	230V A	400V A	1~	230V A	P1 kW	P2 kW	P2 HP	Q m³/h	0	0,3	1	2	2,4	3	4	4,5	5	5,5	6	6,5	7	8	8,4
								Q l/min	0	5	16,6	33,3	40	50	66,6	75	83,3	91,6	100	108	116	133	140
NGX 2	2,8	1,6	NGXM 2	3,3	0,7	0,45	0,6	H m	45	40	30	20,5	18										
NGX 3	2,8	1,6	NGXM 3	4,2	0,9	0,55	0,75		53	48	39	30	27	22									
NGX 4	3,5	2	NGXM 4	5,4	1	0,75	1		42	40	36	31	28	25	21	19,5	18						

3~	230V A	400V A	1~	230V A	P1 kW	P2 kW	P2 HP	Q m³/h	0	0,5	1	2	2,4	3	4	4,5	5	5,5	6	6,5	7	8	8,4
								Q l/min	0	8,3	16,6	33,3	40	50	66,6	75	83,3	91,6	100	108	116	133	140
NGX 5/16	5	2,9	NGXM 5/16	7,4	1,6	1,1	1,5	H m	61	55,5	51	43	40,5	36,8	31,7	28,5							
NGX 5/18	5	2,9	NGXM 5/18	7,4	1,6	1,1	1,5		50,5	47,5	45	39,5	37,7	35	30,8	29	27	25,5	24				
NGX 5/22	5	2,9	NGXM 5/22	7,4	1,6	1,1	1,5		37,5	36	34,7	32	31	29,5	27	26	24,8	23,7	22,8	22	21	19	18,3
NGX 6/18	7,5	4,3	NGXM 6/18	9,2	2	1,5	2		58	54,7	51,5	46	44	41,3	37	34,7	32,5	30,5	28,5				
NGX 6/22	7,5	4,3	NGXM 6/22	9,2	2	1,5	2		46,5	45	43,5	40,5	39,3	37,5	35	33,5	32,5	31,2	30	28,5	27,5	25,5	24,5

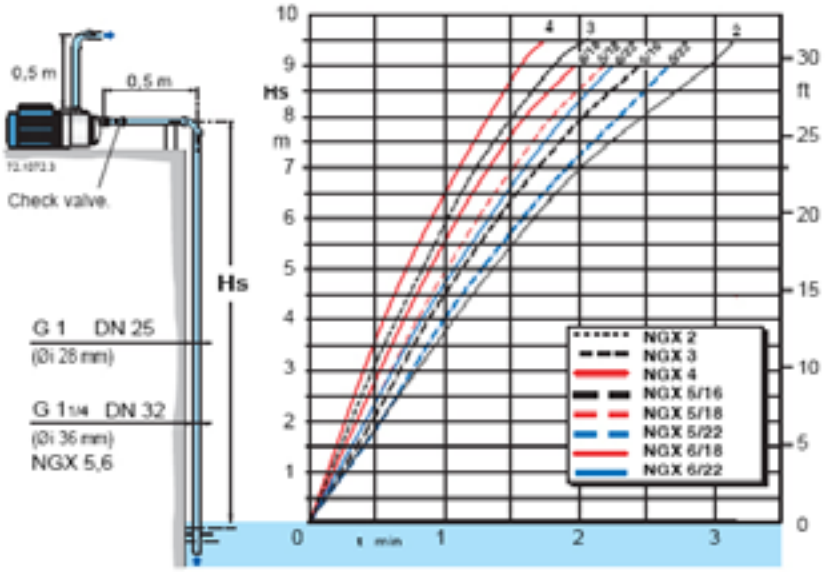
P1 Max. power input. P2 Rated motor power output. Tolerances according to ISO 9906, annex A.

Characteristic Curves for different suction lifts **Hs**



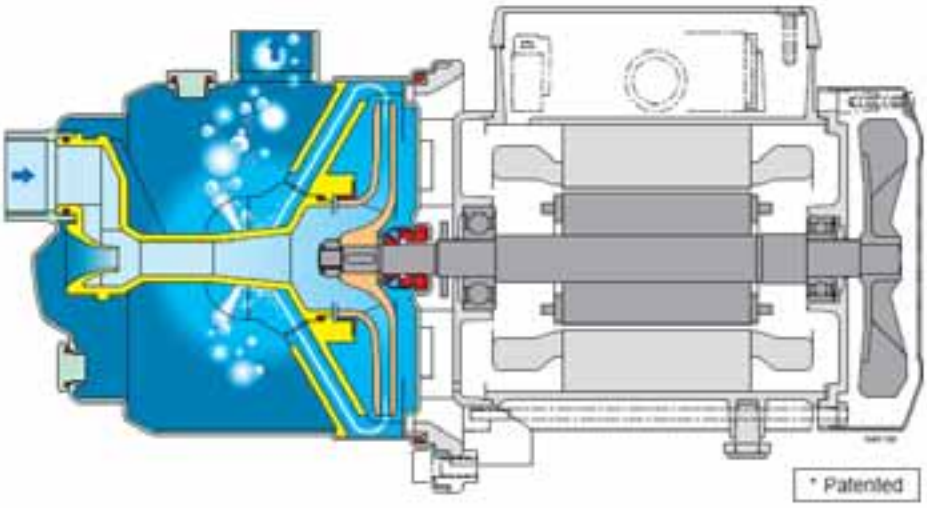
Self-priming capability

50 Hz (n ≈2800 1/min), H 2O, T = 20°C, Pa = 1000 hPa (mbar)



Hs (m) Suction lift.
t (min) Self-priming time.

Features



A different jet pump with new features

Not just another jet pump
An exclusive diffuser design with flow control device* provides for compact construction, fast self-priming capability and low noise.

Reliable

With new design features the NGX is more robust and forgiving when temporary abnormal operating conditions may exist.

Compact

The NGX is smaller than conventional pumps of a similar type, allowing for installation in restricted spaces and providing for easier retrofit applications.

Safe

Fast air evacuation reduces the risk of air-pockets developing at the mechanical seal preventing the danger of seal failure due to a lack of flushing and cooling.

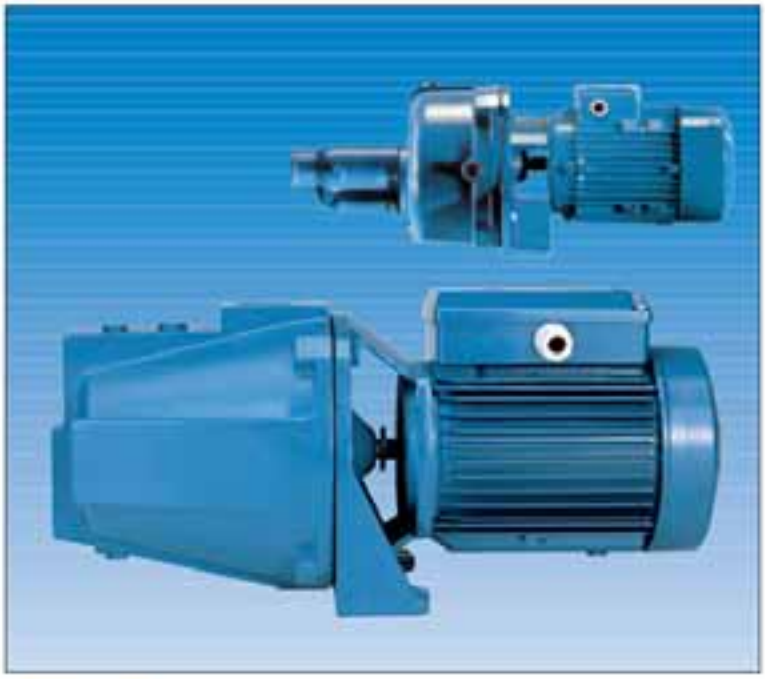
Better self-priming

The NGX are capable of lifting water from depths of 9 m in less than 3 minutes, offers new possibilities on suction lift applications and provides better trouble free service on normal shallow-well suction lift duties, also with a long suction pipe above the water level.

Low noise

The new diffuser and flow control device* guide the fluid from the impeller into the central part of the pump casing, reducing turbulence and velocity, with effective use of the surrounding liquid in dampening the noise of flow.

GPS-NG series Self-Priming Jet Pumps



Construction

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

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, 50 Hz (n = 2900 rpm).
NG: three-phase 230/400 V ± 10%.
NGM: single-phase 230 V ± 10%, with thermal protector. Capacitor inside the terminal box.
Insulation class F.
Protection IP 54.
Constructed in accordance with: EN 60335-2-41.

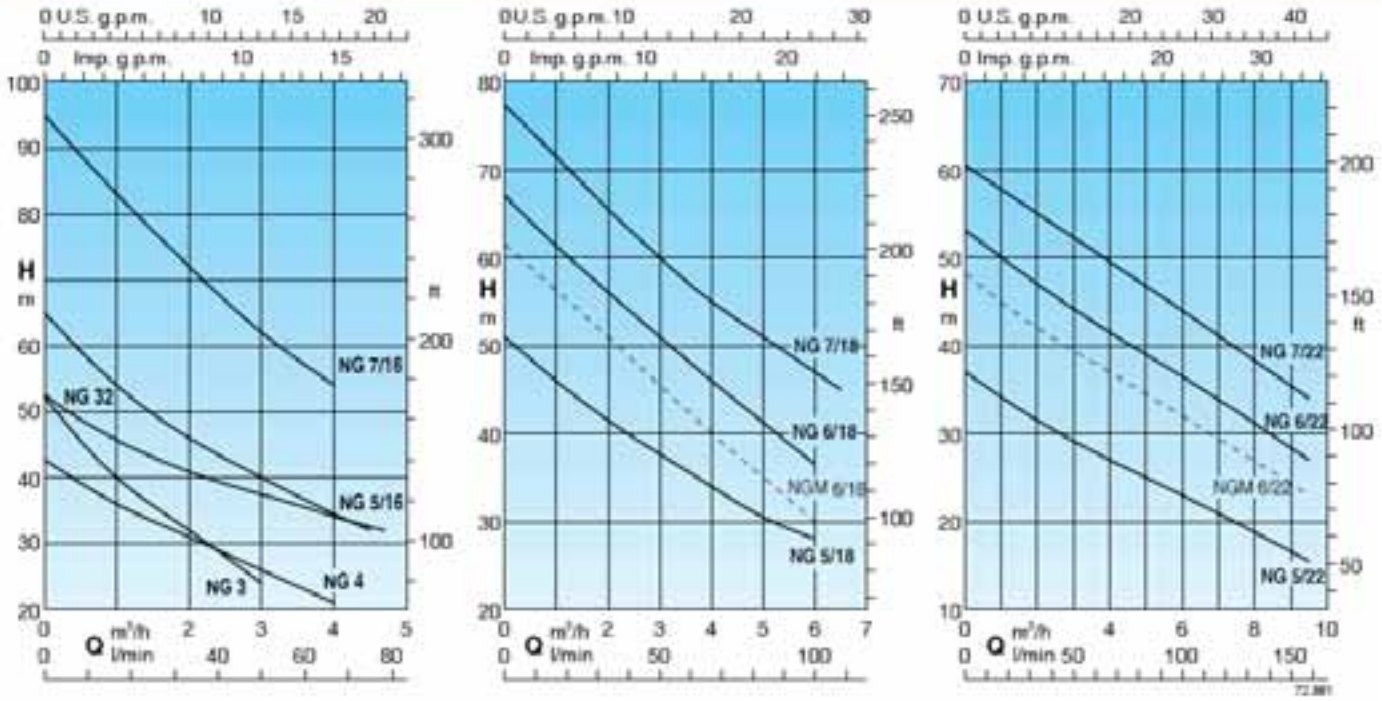
Special features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55.
- Special mechanical seal.

Materials

Components	NG	B-NG
Pump casing Cover with 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-Mo steel 1.4401 EN 10088 AISI 316
	Cr-Ni steel 1.4305 EN 10088 (AISI 303) for NG 5-6-7-32	
Ejector casing NG 32	Cast iron GJL 200 EN 1561	-
Diffuser	Polycarbonate	
Nozzle	Polycarbonate (Brass P- Cu Zn 40 Pb 2 UNI 5705 for NG 32)	
Mechanical seal	Carbon - Ceramic - NBR	

Characteristic Curves *for suction lift Hs = 1 m* *n = 2900 rpm*



GPS-NG series Self-Priming Jet Pumps

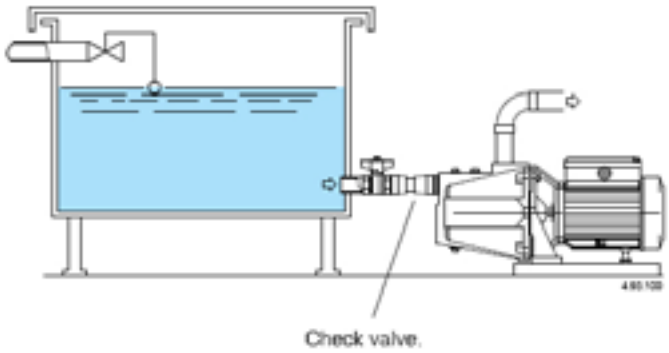
Performance *for suction lift Hs = 1 m* *n = 2900 rpm*

3 ~	230V	400V	1 ~	230V	P1	P2		Q m³/h	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
	A	A		A	kW	kW	HP	l/min	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
B-NG 3E	3	1,7	B-NGM 3E	4,5	0,9	0,55	0,75		49	45,5	40	36	32	28	24												
B-NG 4E	3,7	2,2	B-NGM 4E	5,7	1	0,75	1		41	39	36	33	31	29	26	24	21										
NG 32E	5	2,9	NGM 32E	7,4	1,47	1,1	1,5			49	46	43,5	41	39	38	36	34	33	31								
B-NG 5/16E	5	2,9	B-NGM 5/16E	7,4	1,64	1,1	1,5			59	54	50	46	43	40	37	34,5	32									
B-NG 5/18E	5	2,9	B-NGM 5/18E	7,4	1,68	1,1	1,5			48,5	46	43,5	41,5	39,5	38	35,5	34	32	30,5	29	28						
B-NG 5/22E	5	2,9	B-NGM 5/22E	7,4	1,55	1,1	1,5			35,5	34,5	33	31,5	30,5	29,5	28	27	26	25	23,5	23	21,5	20,5	18,5	16,5	15,5
B-NG 6/18E	7,5	4,3				1,5	2	H m		64,5	62	59	56	54	51	48,5	46	43,5	41,5	39	36,5					
			B-NGM 6/18E	9,2	2	1,5	2			59	57	54	51	48	45	43	40	37,5	35	33	30					
B-NG 6/22E	7,5	4,3				1,5	2			51,5	50	48,5	47	46	44,5	43	41,5	40	39	37,5	36,5	35	33,5	31	28,5	27
			B-NGM 6/22E	9,2	2	1,5	2			47	45	43,5	42	41	40	38	37	36	35	33	32	31	30	27	24	23
B-NG 7/16E	9,15	5,3				2,2	3			89	83	77	72	67	62	58	54									
B-NG 7/18E	9,15	5,3				2,2	3			74,5	71,5	68,5	65,5	63	60	57,5	55	53	51	49	47	45				
B-NG 7/22E	9,15	5,3				2,2	3			59	57,5	56,5	55	54	52,5	51	50	48,5	47	45,5	44	42,5	41,5	38	35	34

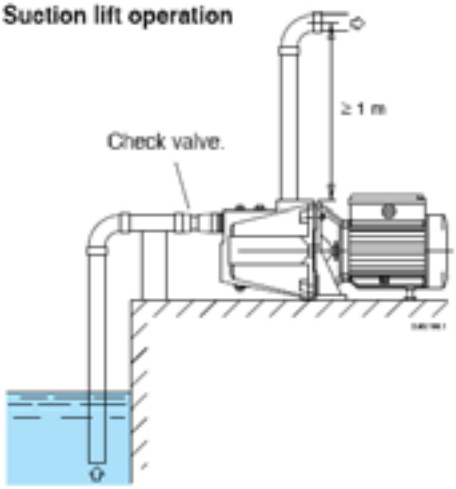
P1 Max. power input. P2 Rated motor power output. B-NG, B-NGM = Bronze construction. Tolerances according to ISO 9906, annex A.

Installation examples

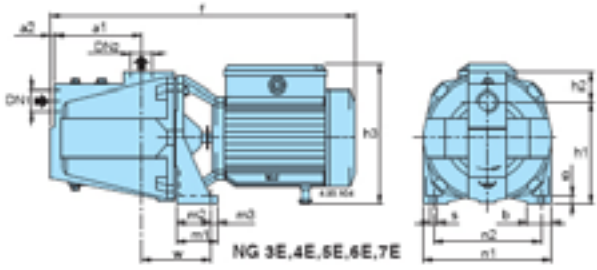
Positive suction head operation

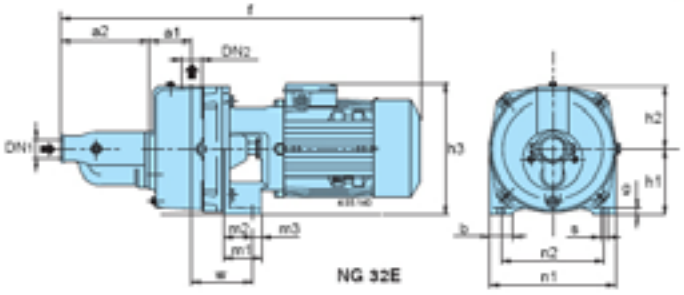


Suction lift operation



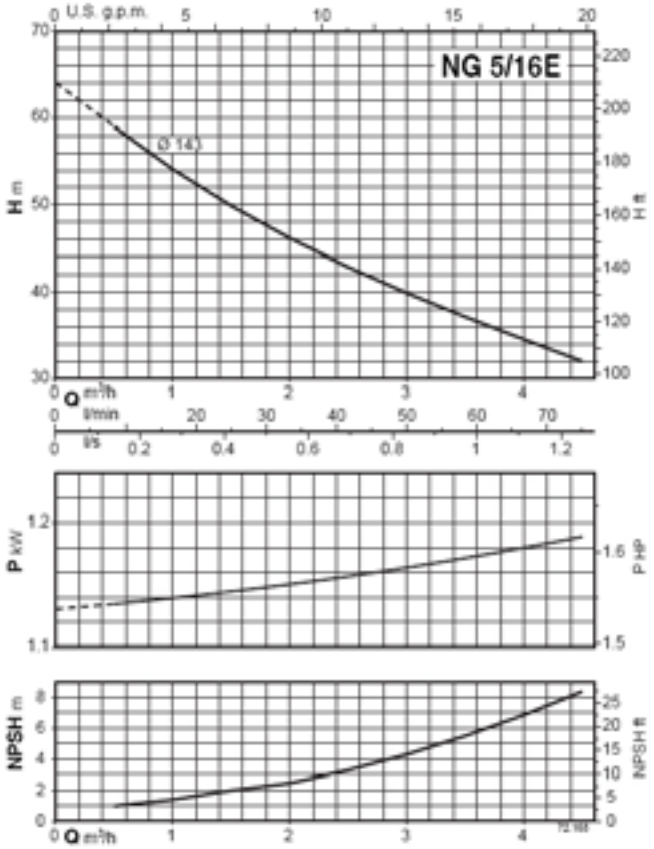
Dimensions and weights

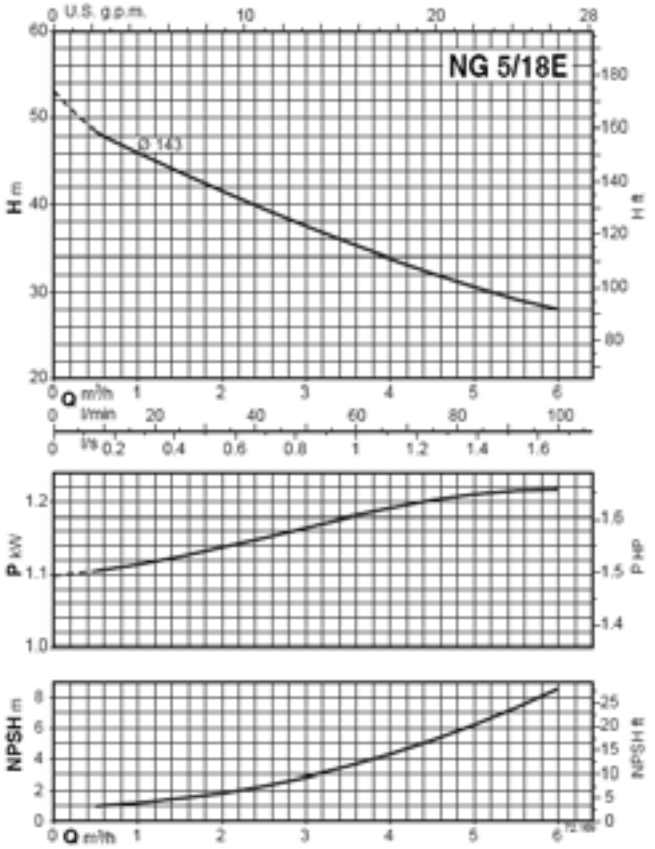


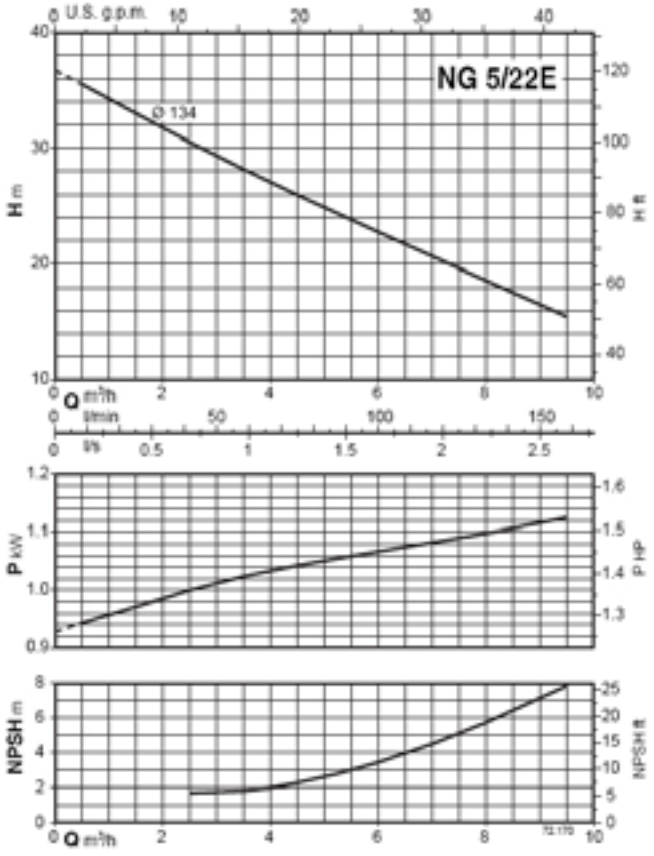


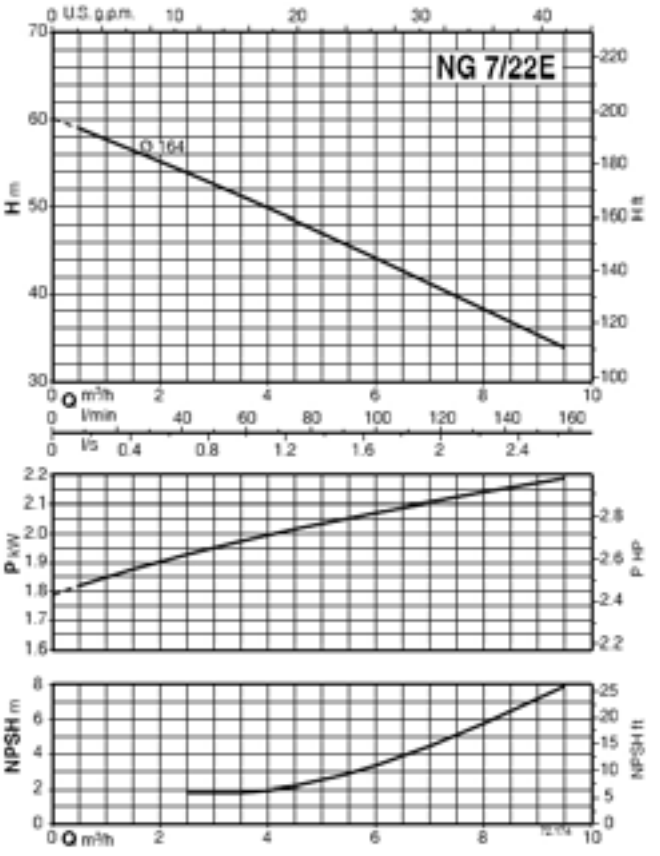
TYPE		DN1	DN2	mm															kg	
		ISO 228		a1	a2	f	h1	h2	h3	m1	m2	m3	n1	n2	b	s	w	g	NG	B-NG
NG 3E	B-NG 3E	G 1	G 1	127	8	430	150	43	203	60	52	8	185	155	35	9,5	100	11	18,4	20,8
NG 4E	B-NG 4E																		19,2	21,5
NG 5E	B-NG 5E	G 1½	G 1	160	10	560	165	57	197	60	50	10	215	175	40	11,5	115	11	29,2	31,6
NG 6E	B-NG 6E																		30,8	32,9
NG 7E	B-NG 7E																		31,3	33,4
NG 32E	-	G 1½	G 1	75	175	557	112	108	222	60	34	26	215	175	40	11	106	10	38	-

Characteristic curves n = 2900 rpm

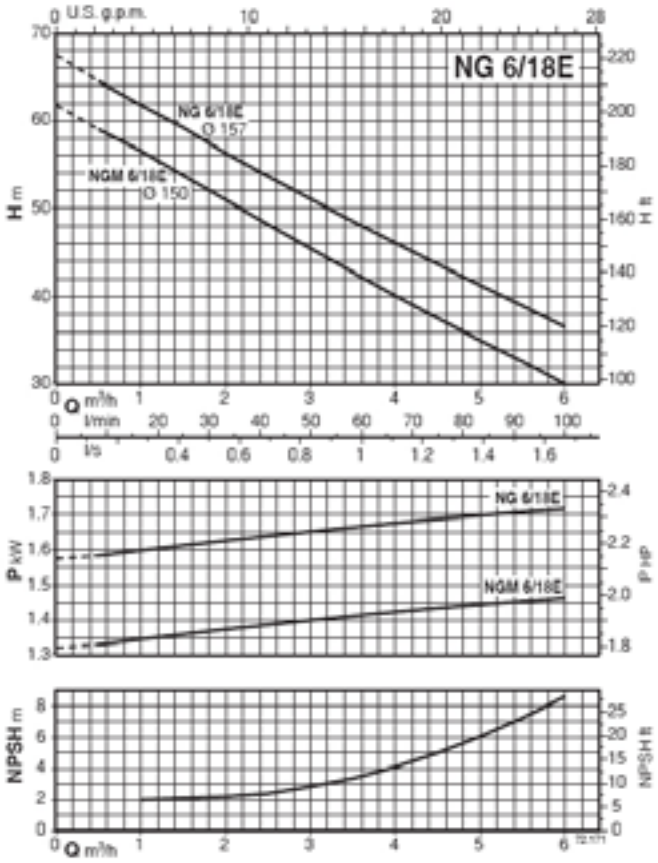


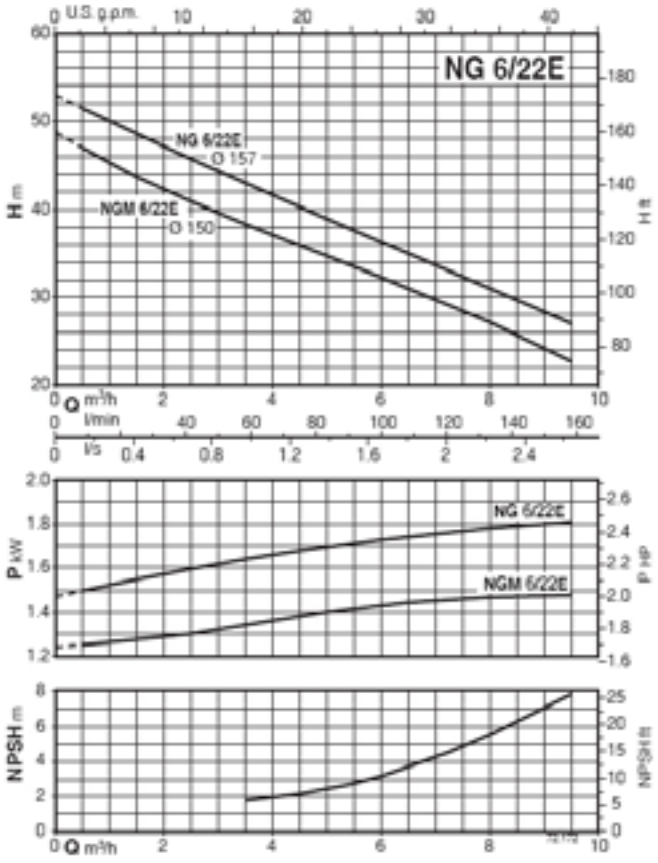


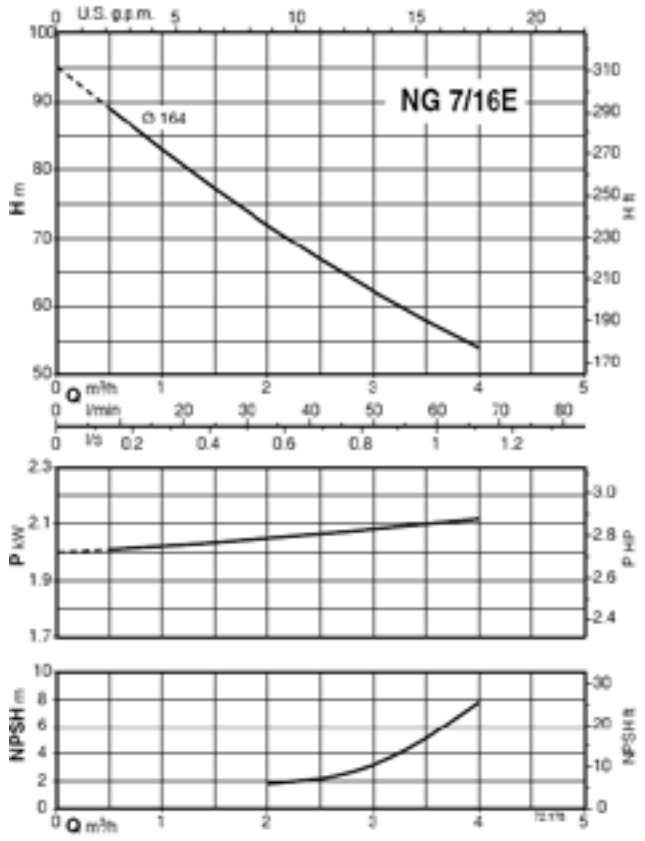


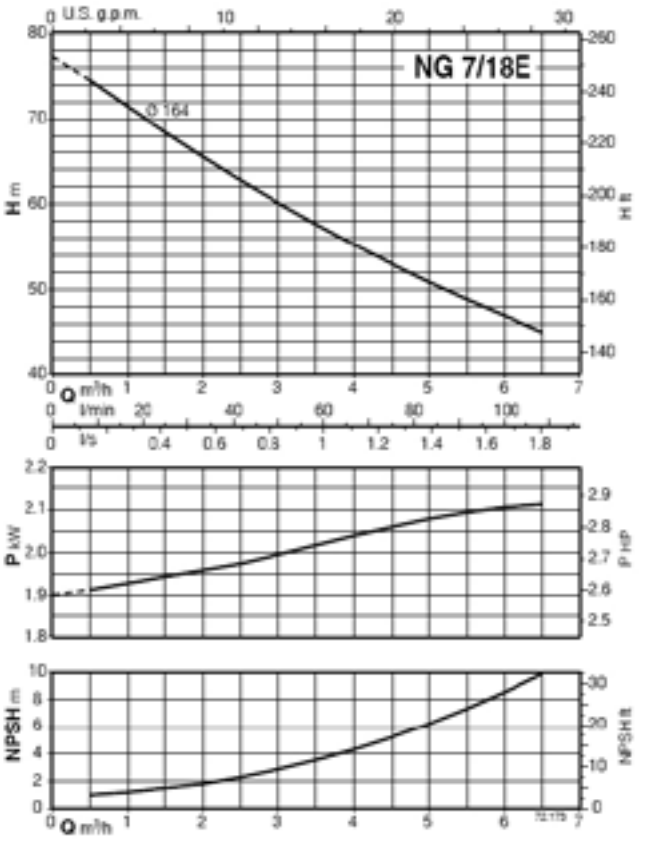


Characteristic curves n ≈ 2900 rpm









Construction

Horizontal multi-stage, self-priming, close coupled pump.
Single-piece barrel casing in chrome-nickel stainless steel, with front suction port above pumps axis and radial delivery at top.
Stages in Noryl.

Applications

For water supply.
For domestic use, for garden use and irrigation.

Operating conditions

Liquid temperature: 0 °C to +35 °C.
Ambient temperature up to +40 °C.
Suction lift up to 8 m.
Maximum permissible pressure in the pump casing: 8 bar.
Continuous duty.

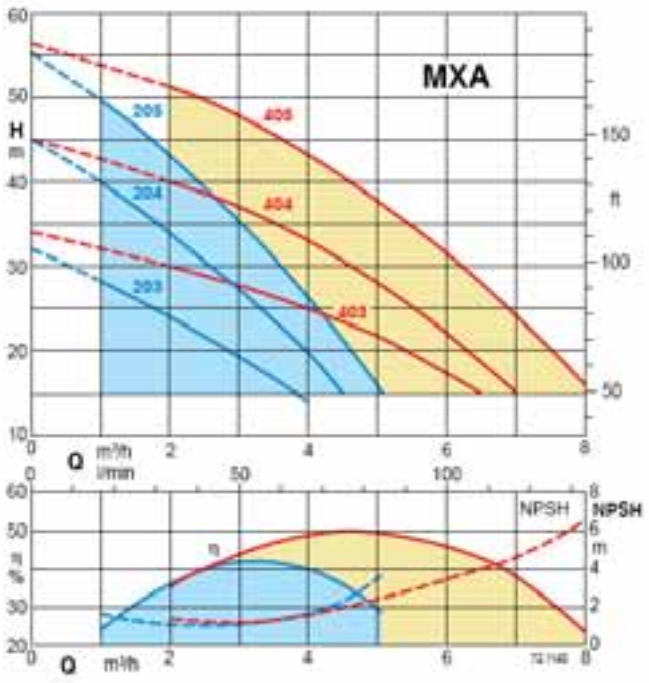
Materials

Component	Material
Pump casing Casing cover	Cr-Ni steel 1.4301 EN 10088 (AISI 304) Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Pump Shaft	Chrome steel 1.4104 EN 10088 (AISI 430) Cr-Ni steel 1.4305 EN 10088 (AISI 303) for MXA 205,405
Plug	Cr-Ni steel 1.4305 EN 10088 (AISI 303)
Suction casing Stage casing Impeller	PPO-GF20 (Noryl) PPO-GF20 (Noryl) PPO-GF20 (Noryl)
Mechanical seal	Carbon - Ceramic - NBR

Motor

2-pole induction motor, 50 Hz (n = 2800 1/min).
MXA: three-phase 230/400 V ± 10%.
MXAM: single-phase 230 V ± 10%, with thermal protector. Capacitor inside the terminal box.
Insulation class F.
Protection IP 54.
Constructed in accordance with: EN 60335-2-41.

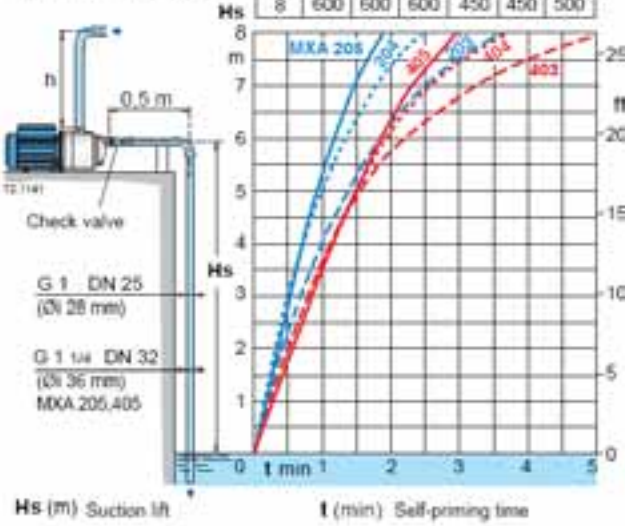
Characteristic curves n = 2800 rpm



Self-priming capability

H₂O, T = 20°C,
Pa = 1000 hPa (mbar)
50 Hz (n ≈2800 1/min)

Hs (m)	h (mm)					
	203	204	205	403	404	405
2	100	100	500	100	100	500
4	200	200	500	100	100	500
6	450	450	500	300	300	500
8	600	600	600	450	450	500



Performance n = 2800 rpm

3~	230 V A	400 V A	1~	230 V A	P1 kW	P2 kW	P2 HP	Q m³/h	0	1	2	3	4	4,5	5		
								Q l/min	0	16,6	33,3	50	66,6	75	83,3		
MXA 203	2,4	1,4	**MXAM 203**	3	0,63	0,45	0,6		32	28	24	19	14				
MXA 204	2,8	1,6	**MXAM 204**	4,2	0,8	0,55	0,75	H m	45	40	34	27	20	15			
MXA 205	4	2,3	**MXAM 205**	5,8	1,1	0,75	1		55,5	50	43	35,5	26,5	21,5	15,5		

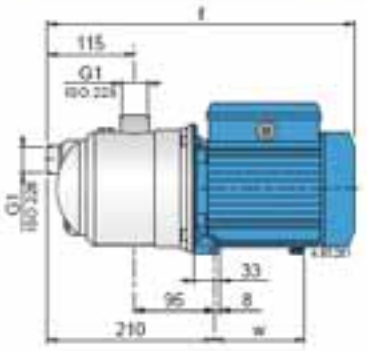
3~	230 V A	400 V A	1~	230 V A	P1 kW	P2 kW	P2 HP	Q m³/h	0	2	3	4	5	6	6,5	7	8
								Q l/min	0	33,3	50	66,6	83,3	100	108,3	116,6	133,3
MXA 403	2,8	1,6	**MXAM 403**	4,2	0,9	0,55	0,75		34	30	28	25	22	17	15		
MXA 404	3,5	2	**MXAM 404**	5,4	1,2	0,75	1	H m	45	40	37	33	28	22	19	15	
MXA 405	5	2,9	**MXAM 405**	7	1,6	1,1	1,5		56	51	47,5	43	37,5	31,5	28	24,5	15,5

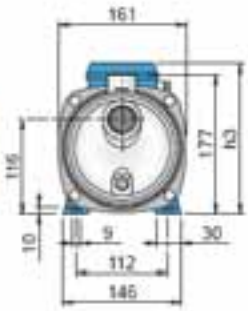
P1 Max. power input
P2 Rated motor power output.

Test results with clean cold water, without gas content.
+ 0,5 m security margin on NPSH-value is necessary.

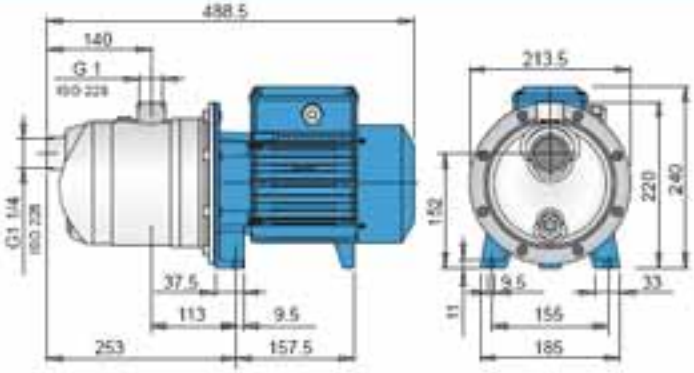
Tolerances according to ISO 9906, annex A.
For capacities over 4 m³/h use a suction pipe G 1 1/4 (DN 32).

Dimensions and weights





TYPE	mm t	mm h3	mm w	Net weight kg MXA	Net weight kg MXAM
MXA 203 - MXAM 203	362	176	102	6,6	6,7
MXA 204 - MXAM 204	391	188	112	8,7	9,6
MXA 403 - MXAM 403	391	188	112	8,6	9,5
MXA 404 - MXAM 404	391	188	112	9,5	10,5



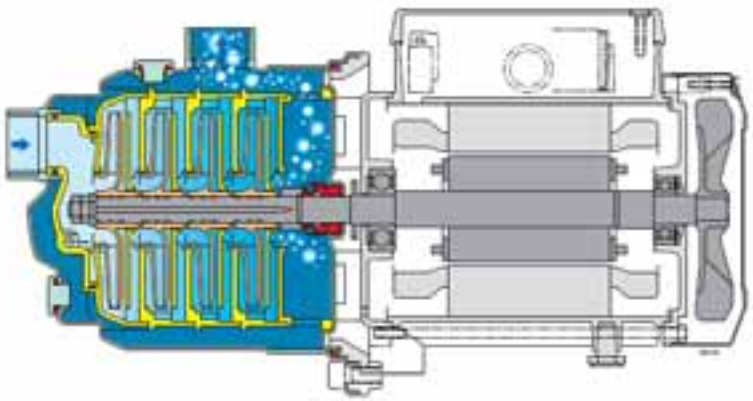
TYPE	Net weight kg MXA	Net weight kg MXAM
MXA 205 - MXAM 205	14	15,3
MXA 405 - MXAM 405	14,8	16,3

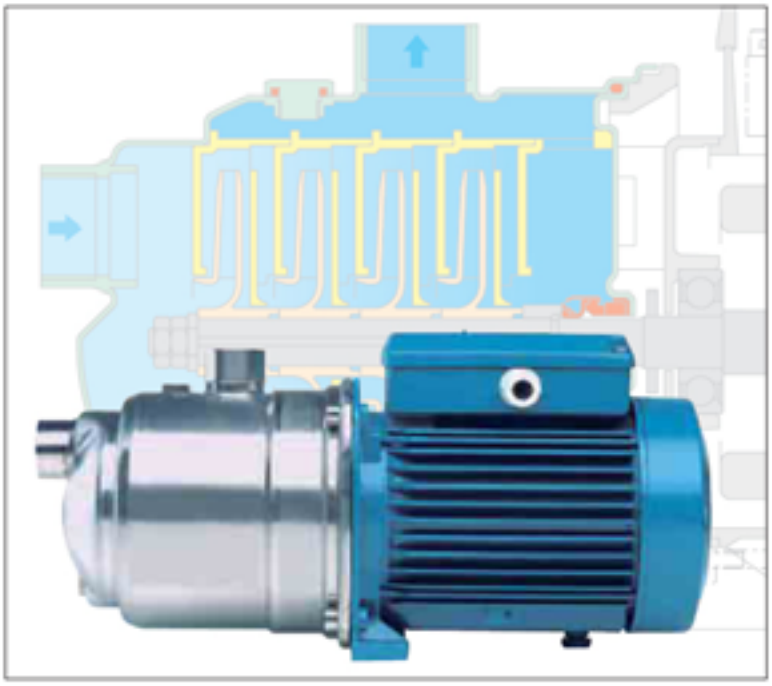
Extra safety
against running dry, with the suction port above pump axis and with the self-priming construction.

Robust
Single-piece barrel casing.

Compact
Single-piece lantern bracket and base.

Low noise
with the water-filled shroud around the stages.





Construction

Horizontal multi-stage close coupled pump.
Single-piece barrel casing in chrome-nickel stainless steel, with front suction port above pumps axis and radial delivery at top.
Stages in Noryl.

Applications

For water supply.
For domestic use, for garden use and irrigation.

Operating conditions

Liquid temperature: 0 °C to +35 °C.
Ambient temperature up to +40 °C.
Maximum permissible pressure in the pump casing: 8 bar.
Continuous duty.

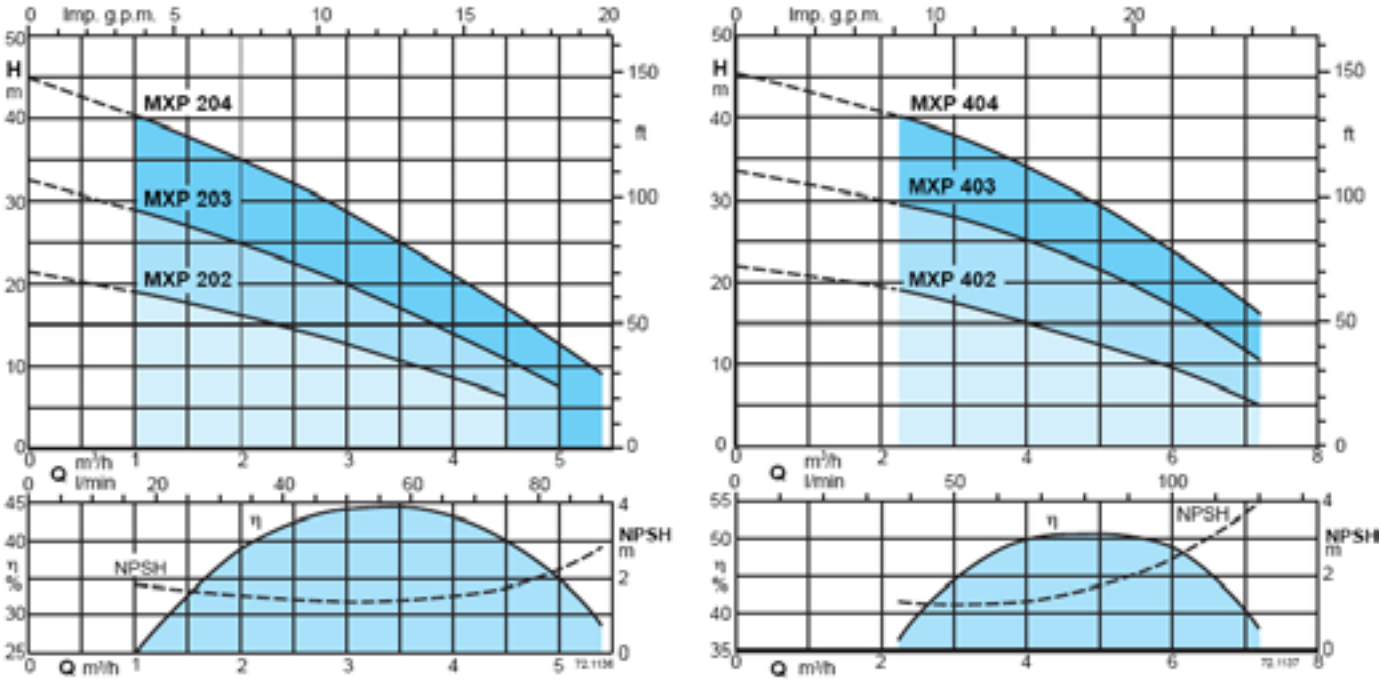
Materials

Component	Material
Pump casing	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Casing cover	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Pump Shaft	Chrome steel 1.4104 EN 10088 (AISI 430)
Plug	Cr-Ni steel 1.4305 EN 10088 (AISI 303)
Stage casing	PPO-GF20 (Noryl)
Impeller	PPO-GF20 (Noryl)
Mechanical seal	Carbon - Ceramic - NBR

Motor

2-pole induction motor, 50 Hz (n = 2800 1/min).
MXP: three-phase 230/400 V ± 10%.
MXPM: single-phase 230 V ± 10%, with thermal protector. Capacitor inside the terminal box.
Insulation class F.
Protection IP 54.
Constructed in accordance with: EN 60335-2-41.

Characteristic curves n = 2800 rpm



Performance n ≈ 2800 rpm

3 ~	230 V	400 V	1 ~	230 V	P1	P2		Q m³/h	0	1	1,5	2	2,5	3	3,5	4	4,5	5	5,4
	A	A		A	kW	kW	HP	l/min	0	16,6	25	33,3	41,6	50	58,3	66,6	75	83,3	90
MXP 202	1,7	1	**MXPM 202**	2,3	0,45	0,33	0,45		21,5	19	17,5	16	14,5	12,5	10,5	8,5	6,5		
MXP 203	2,4	1,4	**MXPM 203**	3	0,63	0,45	0,6	H m	32,5	29	27	25	22,5	20	17	14	11	7,5	
MXP 204	2,8	1,6	**MXPM 204**	4,2	0,8	0,55	0,75		45	40	37,5	35	32	28,5	25	21,5	17	13	9

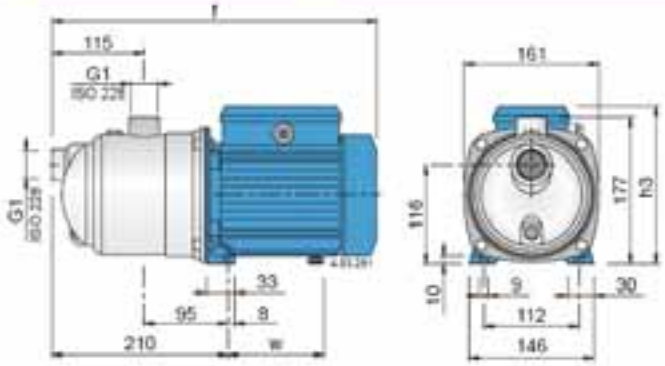
3 ~	230 V	400 V	1 ~	230 V	P1	P2		Q m³/h	0	2,25	3	3,5	4	4,5	5	6	7,2
	A	A		A	kW	kW	HP	l/min	0	37,5	50	58,3	66,6	75	83,3	100	120
MXP 402	2,4	1,4	**MXPM 402**	3	0,61	0,45	0,6		22	19	17,5	16,5	15	14	12,5	9,5	5
MXP 403	2,8	1,6	**MXPM 403**	4,2	0,9	0,55	0,75	H m	33,5	30	28	26,5	25	23	21,5	17	10
MXP 404	3,5	2	**MXPM 404**	5,4	1,2	0,75	1		46	40	38	36,5	34	32	29,5	24	16

P1 Max. power input.
P2 Rated motor power output.

Test results with clean cold water, without gas content.
+ 0,5 m security margin on NPSH-value is necessary.

Tolerances according to ISO 9906, annex A.
For capacities over 4 m³/h use a suction pipe G 1 1/4 (DN 32).

Dimensions and weights



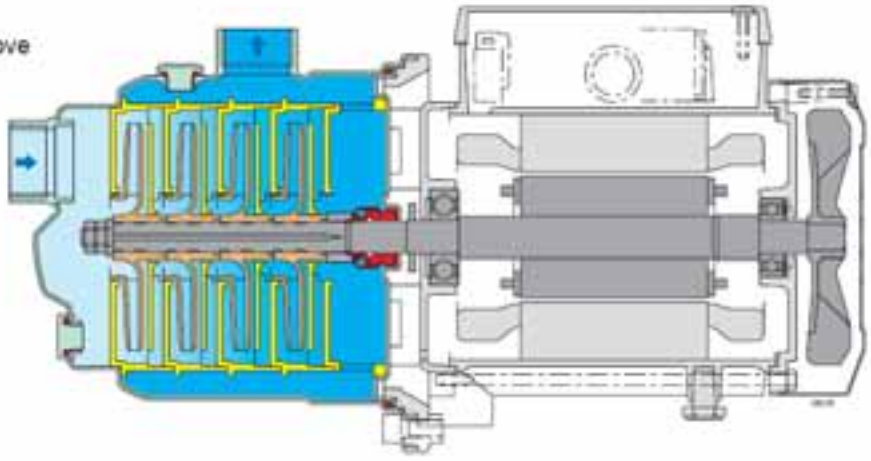
TYPE	mm			kg	
	f	h3	w	MXP	MXPM
MXP 202 - MXPM 202	362	176	102	5,9	6
MXP 203 - MXPM 203	362	176	102	6,6	6,7
MXP 204 - MXPM 204	391	188	112	8,7	9,6
MXP 402 - MXPM 402	362	176	102	6,5	6,6
MXP 403 - MXPM 403	391	188	112	8,6	9,5
MXP 404 - MXPM 404	391	188	112	9,5	10,5

Extra safety
against running dry, with the suction port above pump axis.

Robust
Single-piece barrel casing.

Compact
Single-piece lantern bracket and base.

Low noise
with the water-filled shroud around the stages.



GPS-MXH series Multi-Stage **Pumps Professional Series**

Construction

Horizontal multi-stage close coupled pumps in **chrome-nickel stainless steel**.
Compact and robust construction, without protruding flange and with single-piece lantern bracket and base.
Single-piece barrel casing, with front suction port above pumps axis and radial delivery at top.
Filling and draining plugs on the middle of the pump, accessible from any side (like the terminal box).

Applications

For water supply.
For clean liquids, without abrasives, which are non-aggressive for stainless steel (with suitable seal materials, on request).
Universal pump, for domestic use, for civil and industrial applications, for garden use and irrigation.

Operating conditions

Liquid temperature from - 15 °C to + 110 °C.
Ambient temperature up to 40 °C.
Maximum permissible pressure in the pump casing: 8 bar.
Continuous duty.

Motor

2-pole induction motor, 50 Hz (n = 2800 rpm).
MXH: three-phase 230/400 V ± 10%.
MXHM: single-phase 230 V ± 10%, with thermal protector. Capacitor inside the terminal box.
Insulation class F.
Protection IP 54.
Constructed in accordance with: IEC 60034; IEC 60038; IEC 60335-1, EN 60335-1; IEC 60335-2-41, EN 60335-2-41;

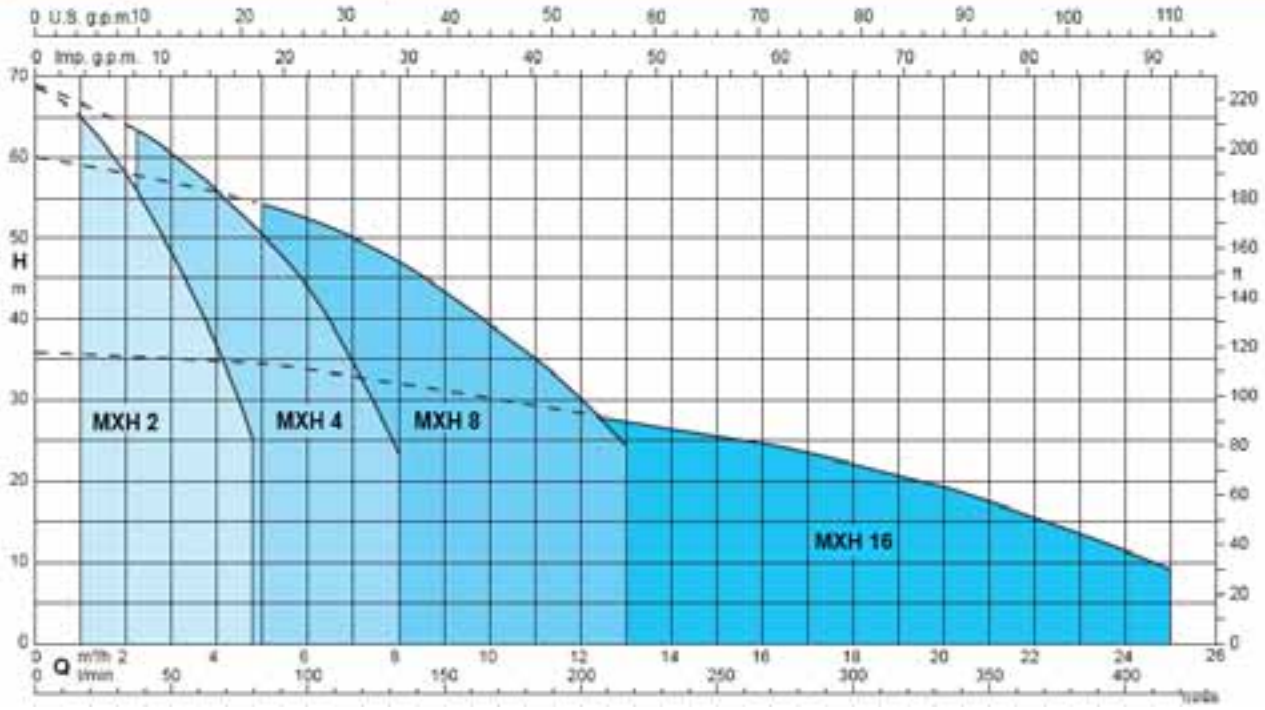
Materials

Component	Material
Pump casing	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Stage casing	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Wear ring	PTFE
Impeller	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Casing cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Spacer sleeve	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Pump shaft	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)
Plug	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)
Mechanical seal with seat according to ISO 3069	Ceramic alumina, carbon, EPDM (Other materials on request)

Special features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55.
- Special mechanical seal.
- Pump casing seal rings in FPM.
- Higher or lower liquid or ambient temperatures.

Coverage chart *n ≈ 2800 rpm*



Performance n ≈ 2800 rpm

3 ~	230 V	400 V	1 ~	230 V	P1	P2		Q m³/h	0	1	1,5	2	2,5	3	3,5	4	4,25	4,8
	A	A		A	kW	kW	HP	l/min	0	16,6	25	33,3	41,6	50	58,3	66,6	70,8	80
MXH 202E	1,7	1	**MXHM 202E**	2,3	0,5	0,33	0,45	H m	22	20,5	19,4	18	16,4	14,2	12	9,9	8,7	5,5
MXH 203E	2,4	1,4	**MXHM 203E**	3	0,65	0,45	0,6		33	31	29	27	24,5	21,7	18,6	15,5	13,8	9
MXH 204E	2,8	1,6	**MXHM 204E**	4,2	0,9	0,55	0,75		45	42,5	40,4	37,5	34,5	30,8	26,7	22,4	20,1	14,8
MXH 205E	3,5	2	**MXHM 205E**	5,4	1,2	0,75	1		57	53,5	50,5	47,5	43,5	39	34	28,5	25,8	19
MXH 206E	4,7	2,7	**MXHM 206**	7,4	1,5	1,1	1,5		68,5	65	61,5	58	53,5	48	43	36,5	33,5	25

3 ~	230 V	400 V	1 ~	230 V	P1	P2		Q m³/h	0	2,25	3	3,5	4	4,5	5	6	7	8
	A	A		A	kW	kW	HP	l/min	0	37,5	50	58,3	66,6	75	83,3	100	116	133
MXH 402E	2,4	1,4	**MXHM 402E**	3	0,65	0,45	0,6	H m	22,5	20	19	18,5	17,5	16	15	12,5	9,5	6
MXH 403E	2,8	1,6	**MXHM 403E**	4,2	0,9	0,55	0,75		33	30	29	27,5	26	24,5	23	19,5	15	9,5
MXH 404E	3,5	2	**MXHM 404E**	5,4	1,2	0,75	1		44,5	40,5	38	36,5	35	33	31	26	20	12,5
MXH 405E	4,7	2,7	**MXHM 405**	7,4	1,5	1,1	1,5		56,5	52	50	47,5	45,5	43	40	33,5	26	16,5
MXH 406	6,4	3,7	**MXHM 406**	9,2	2	1,5	2		68,5	63	60	58	56	53,5	51	44	35	23

3 ~	230 V	400 V	1 ~	230 V	P1	P2		Q m³/h	0	5	6	7	8	9	10	11	12	13
	A	A		A	kW	kW	HP	l/min	0	83,3	100	116	133	150	166	183	200	216
MXH 802E	3,5	2	**MXHM 802E**	5,4	1,2	0,75	1	H m	22,5	20,5	20	19	18	16,5	15	13	11	8,5
MXH 803	5	2,9	**MXHM 803**	7,4	1,5	1,1	1,5		36	32	30,5	29	27,5	25,5	23	20	17	14
MXH 804	6,4	3,7	**MXHM 804**	9,2	2	1,5	2		48	42,5	41	39	37	34,5	32	28	24	19,5
MXH 805	7,5	4,3				1,8	2,5		60	54	52	49,5	47	43,5	39,5	35	29,5	24

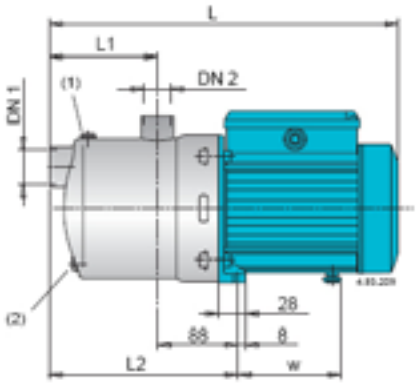
3 ~	230 V	400 V		P2		Q m³/h	0	5	8	11	14	16	18	20	22	25
	A	A		kW	HP	l/min	0	83,3	133	183	233	266	300	333	366	416
MXH 1602	6,4	3,7		1,5	2	H m	24	23	21,7	20,5	18,8	17,5	15,8	14	11,5	6,5
MXH 1603	7,5	4,3		1,8	2,5		36	34	31,8	29,5	26,8	24,8	22,4	19,2	15,3	8,8

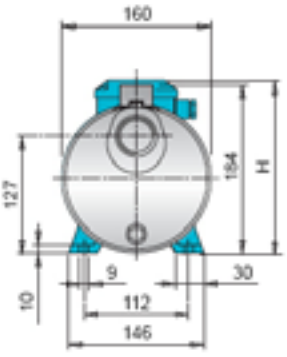
P1 Max. power input.
P2 Rated motor power output.

Test results with clean cold water, without gas content.
Tolerances according to ISO 9906, annex A.

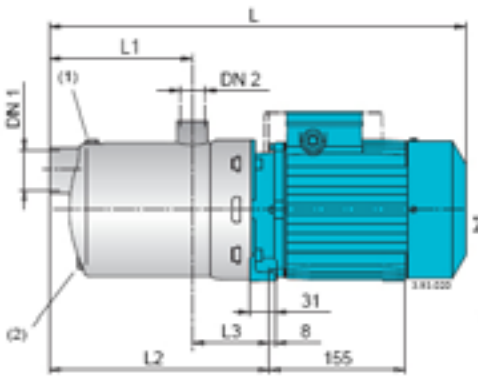
+ 0,5 m security margin on NPSH-value is necessary.

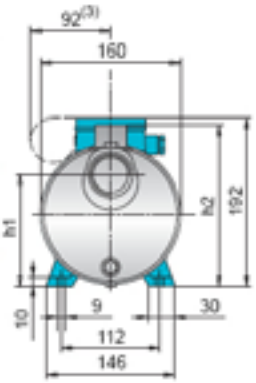
Dimensions and weights





TYPE	DN1 ISO 228	DN2 ISO 228	mm L	L1	L2	H	w	kg MXH	MXHM
MXH 202E - MXHM 202E	G 1 1/4	G 1	331	94	182	176	98,5	6,8	6,9
MXH 203E - MXHM 203E	G 1 1/4	G 1	331	94	182	176	98,5	7,6	7,7
MXH 204E - MXHM 204E	G 1 1/4	G 1	381	118	206	189	112	10	11
MXH 205E - MXHM 205E	G 1 1/4	G 1	405	142	230	189	112	11,5	12,5
MXH 206E	G 1 1/4	G 1	429	166	254	189	112	13,5	-
MXH 402E - MXHM 402E	G 1 1/4	G 1	331	94	182	176	98,5	7,6	7,7
MXH 403E - MXHM 403E	G 1 1/4	G 1	357	94	182	189	112	9,3	10,3
MXH 404E - MXHM 404E	G 1 1/4	G 1	381	118	206	189	112	10,8	11,8
MXH 405E	G 1 1/4	G 1	405	142	230	189	112	13	-
MXH 802E - MXHM 802E	G 1 1/2	G 1	381	118	206	189	112	10,6	11,6

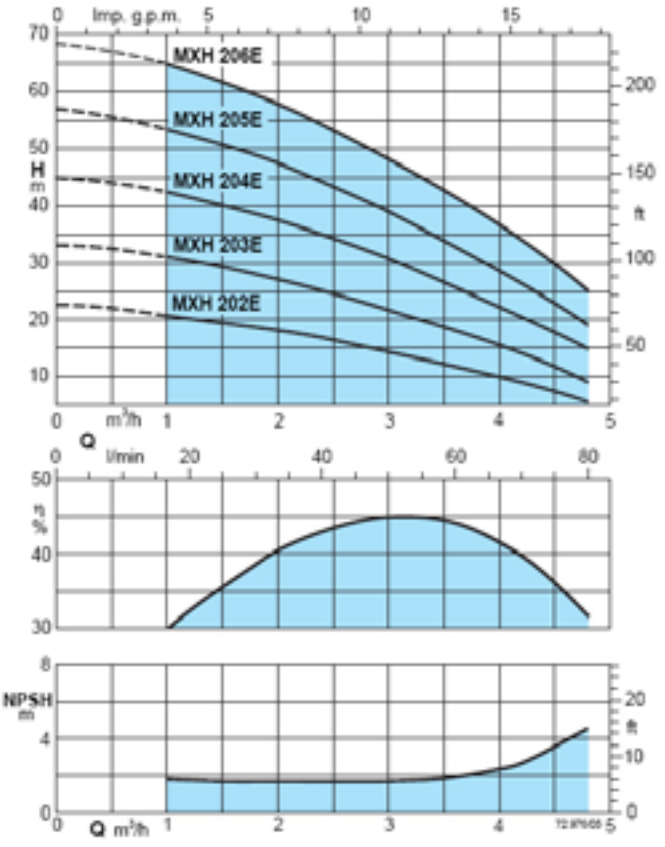


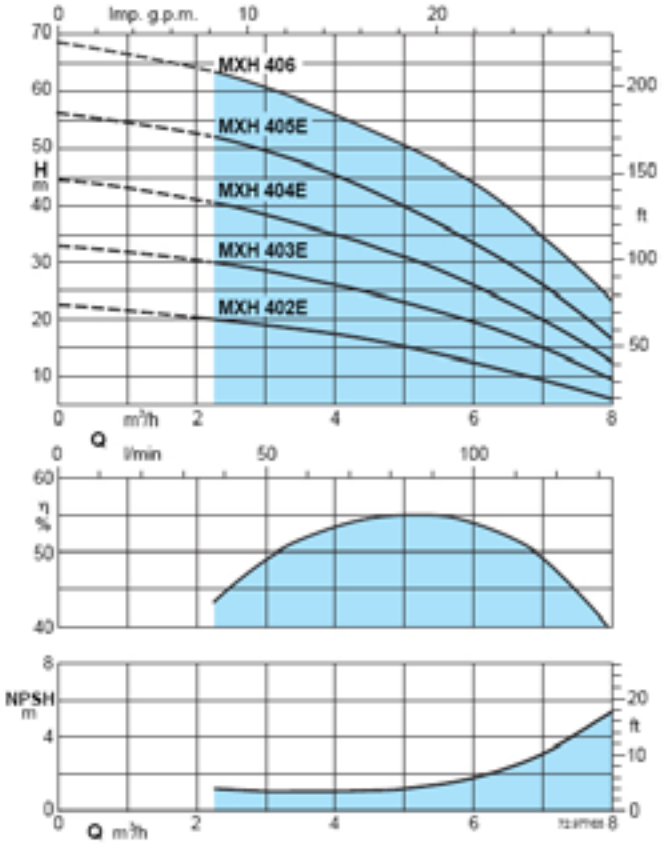


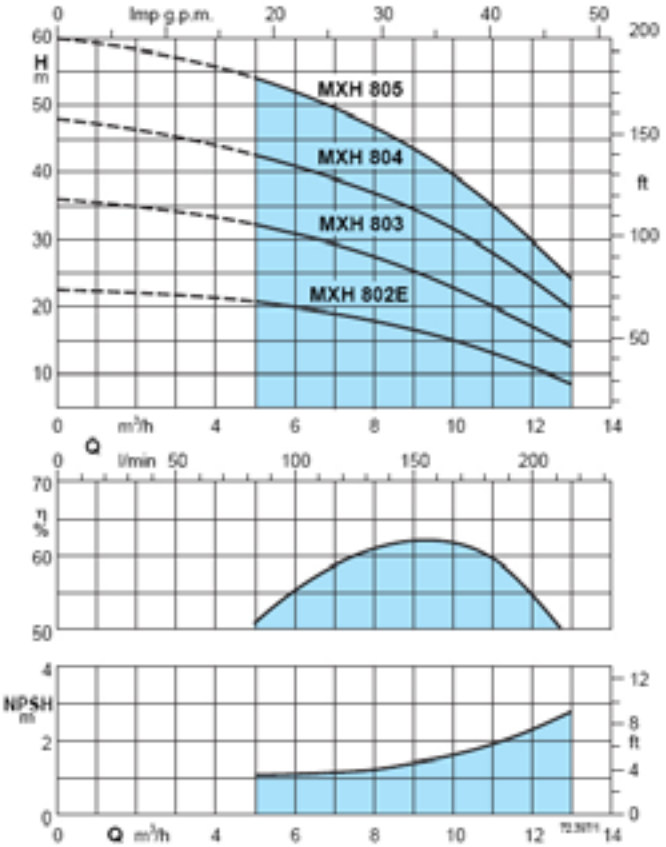
TYPE	DN1 ISO 228	DN2 ISO 228	mm L	L1	L2	L3	h1	h2	kg MXH	MXHM
MXHM 206	G 1 1/4	G 1	488	166	254	88	127	184	-	18,6
MXHM 405	G 1 1/4	G 1	464	142	230	88	127	184	-	18
MXH 406 - MXHM 406	G 1 1/4	G 1	488	166	254	88	127	184	19,5	20,5
MXH 803 - MXHM 803	G 1 1/2	G 1	440	118	206	88	127	184	15,8	16,9
MXH 804 - MXHM 804	G 1 1/2	G 1	470	148	236	88	127	184	18,2	19,2
MXH 805	G 1 1/2	G 1	500	178	266	88	127	184	19	-
MXH 1602	G 2	G 1 1/2	464	128	230	101	117	187	18,2	-
MXH 1603	G 2	G 1 1/2	464	128	230	101	117	187	18,4	-

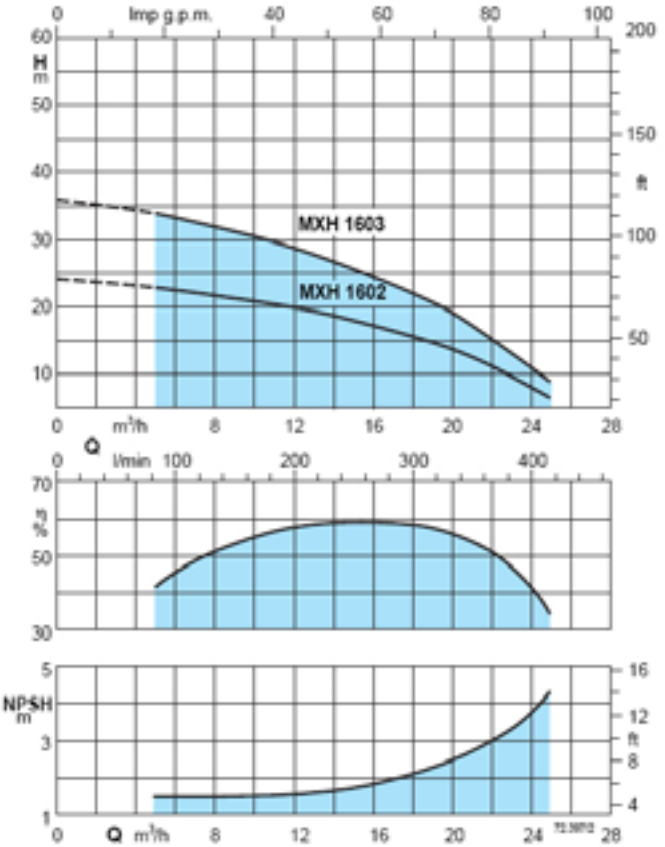
(1) Filling (2) Draining (3) MXHM

Characteristic curves n ≈ 2800 rpm









PREMIUM LINE

This is a selection of premium line product with 5 year warranties many more pump models are available, should you have an application that requires selection assistance we are happy to help please contact **GPS** on **021 952 585** or **09 414 5416** for immediate assistance.

GPS

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