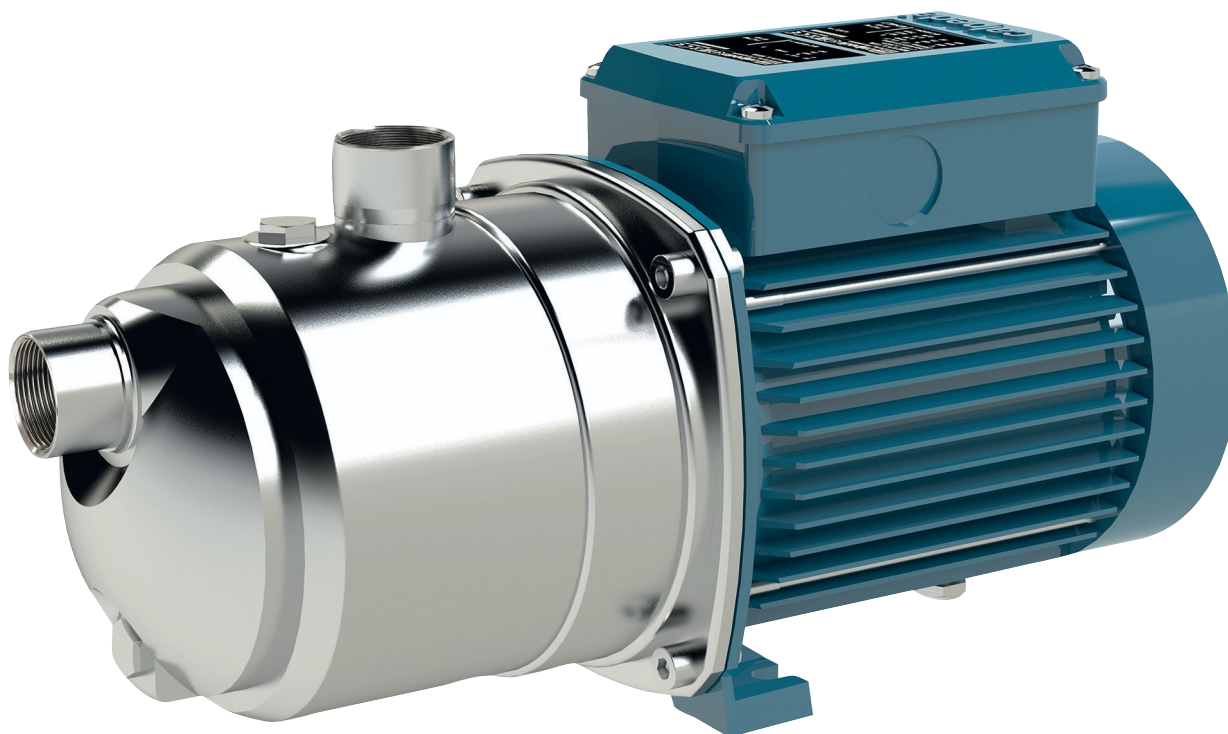
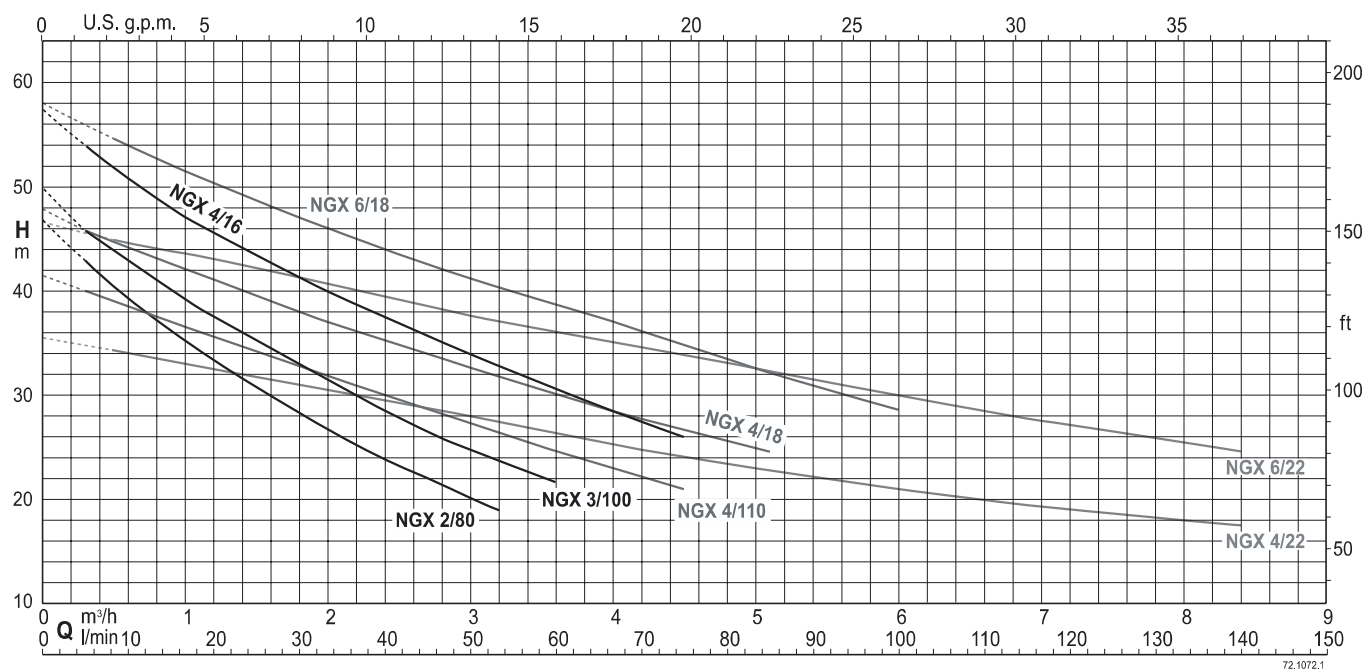


Coverage chart $n \approx 2800$ rpm

Self-priming jet pumps

Construction

Close-coupled self-priming shallow well jet pumps with built-in ejector.
A high-quality pump for domestic water supply. Designed with environmental considerations, featuring a stainless steel casing.

Applications

For drawing water out of a well.
For lifting water containing air or other gases.
For increasing network pressure (follow local specifications).
For increasing water pressure from flooded suction applications.
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.
Maximum permissible pressure in the pump casing: 8 bar.
Continuous duty (S3 60% for single-phase pump to 1,5 kW).

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 IP54
IE2 efficiency class for single-phase motors up to 1,1 kW.
IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).
Constructed in accordance with EN 60034-1; EN 60034-30-1.
EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.
Frequency 60 Hz (as per 60 Hz data sheet).
Brass impeller

Designation

NGXM 6/18/A
NGX = Series
M = Single-phase version (no indication: three-phase)
6 = Progressive type number
18 = Ejector type
/A = It refers to a revision

Materials

Component	Material
Pump casing	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Casing cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Impeller	Brass CW617N EN 12165 (Noryl PPO-GF20 for NGX 2/80, 3/100, 4/110)
Wear ring impeller-diffuser	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Diffuser	Noryl PPO-GF20
Ejector	Noryl PPO-GF20
Shaft	Steel 1.4104 EN 10088 (AISI 430F)
	Steel 1.4305 EN 10088 (AISI 303). NGX 6
Mechanical seal	Carbon - Ceramic - NBR

Performance n ≈ 2800 rpm
Single-phase

					Q = Flow																			
					m³/h	0	0,3	0,5	1	2	2,4	3	3,2	3,6	4	4,5	5	5,5	6	6,5	7	8	8,4	
							5	8,33	16,6	33,3	40	50	53,3	60	66,6	75	83,3	91,6	100	108	117	133	140	
Model	230V	P2		P1	V/min	H (m) = Total head																		
	A	KW	HP	KW		4,5	5,5	6,5	7,5	8,5	9,5	10,5	11,5	12,5	13,5	14,5	15,5	16,5	17,5	18,5	19,5			
NGXM 2/80/A	4,5	0,55	0,75	0,78		46,8	43	40,7	35,2	26,7	23,9	20,2	19,1	-	-	-	-	-	-	-	-			
NGXM 3/100	4,5	0,65	0,9	0,89		50	45,9	44	39,4	31,3	28,5	24,8	23,7	21,7	-	-	-	-	-	-	-			
NGXM 4/110	5,7	0,75	1	1,01		41,6	40	39	36,6	31,9	30	27,3	26,4	24,6	23	21,1	-	-	-	-	-			
NGXM 4/16	7	1,1	1,5	1,44		57,5	54	52	47,3	40	37,5	34	32,9	30,7	28,5	26	-	-	-	-	-			
NGXM 4/18	7	1,1	1,5	1,44		48	46	45	42,5	37	35	32,5	31,7	30,1	28,5	27	25	-	-	-	-			
NGXM 4/22	7	1,1	1,5	1,44		35,5	34,8	34,3	33	30,5	29,5	28	27,5	26,4	25,3	24	23	22	21	20,3	19,5			
NGXM 6/18	9,2	1,5	2	2		58	-	54,7	51,5	46	44	41,3	40,4	38,7	37	34,7	32,5	30,5	28,5	-	-			
NGXM 6/22	9,2	1,5	2	2		46,5	-	45	43,5	40,5	39,3	37,5	37	36	35	33,5	32,5	31,2	30	28,5	27,5			

Three-phase

					Q = Flow																				
					m³/h	0	0,3	0,5	1	2	2,4	3	3,2	3,6	4	4,5	5	5,5	6	6,5	7	8	8,4		
					l/min		5	8,33	16,6	33,3	40	50	53,3	60	66,6	75	83,3	91,6	100	108	117	133	140		
Model	230V	400V	P2			H (m) = Total head																			
	A		kW	HP		2,8	1,6	0,55	0,75	46,8	43	40,7	35,2	26,7	23,9	20,2	19,1	-	-	-	-	-	-	-	-
NGX 2/80/A						2,8	1,6	0,55	0,75	46,8	43	40,7	35,2	26,7	23,9	20,2	19,1	-	-	-	-	-	-	-	-
NGX 3/100						3	1,7	0,65	0,9	50	45,9	44	39,4	31,3	28,5	24,8	23,7	21,7	-	-	-	-	-	-	-
NGX 4/110						3,7	2,2	0,75	1	41,6	40	39	36,6	31,9	30	27,3	26,4	24,6	23	21,1	-	-	-	-	-
NGX 4/16						4,5	2,6	1,1	1,5	57,5	54	52	47,3	40	37,5	34	32,9	30,7	28,5	26	-	-	-	-	-
NGX 4/18						4,5	2,6	1,1	1,5	48	46	45	42,5	37	35	32,5	31,7	30,1	28,5	27	25	-	-	-	-
NGX 4/22						4,5	2,6	1,1	1,5	35,5	34,8	34,3	33	30,5	29,5	28	27,5	26,4	25,3	24	23	22	21	20,3	19,5
NGX 6/18/A						7,5	4,3	1,5	2	58	-	54,7	51,5	46	44	41,3	40,4	38,7	37	34,7	32,5	30,5	28,5	-	-
NGX 6/22/A						7,5	4,3	1,5	2	46,5	-	45	43,5	40,5	39,3	37,5	37	36	35	33,5	32,5	31,2	30	28,5	27,5

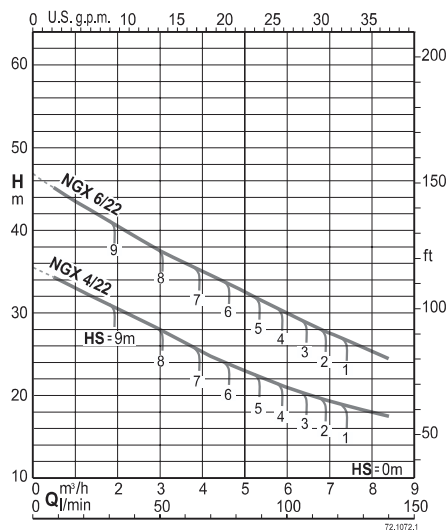
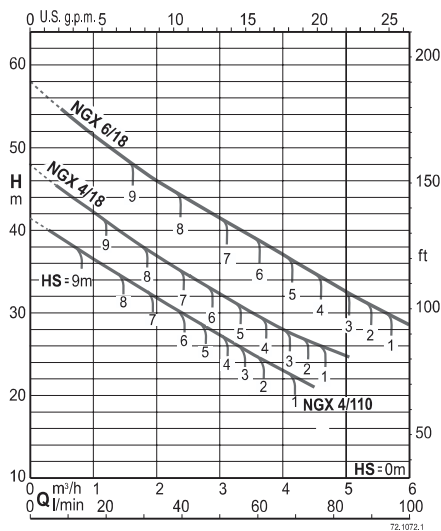
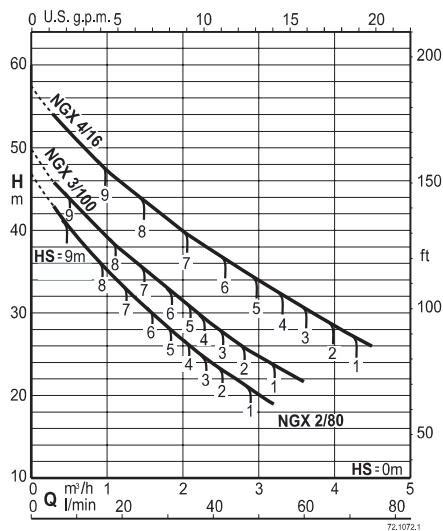
P1: Maximum power input.

P2: Rated motor power output.

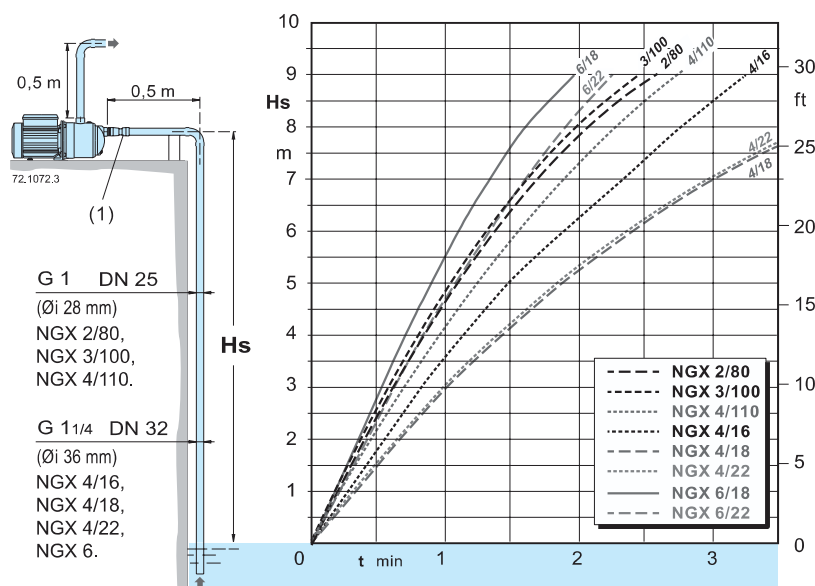
Hs (m) Aspiration height

Tolerances according to UNI EN ISO 9906:2012

Curve caratteristiche con diverse altezze di aspirazi

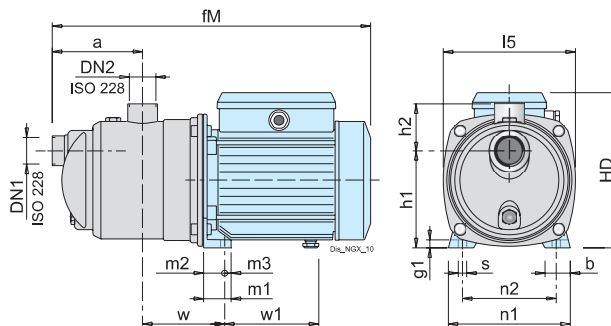


Self-priming capability

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

H_s (m): Aspiration height
 t (min): Self-priming time
 (1) Non-return valve

Dimensions and weights



TYPE	ISO 228		mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l5	m1	m2	m3	n1	n2	s	w	w1	Weight
NGXM 2/80/A	G 1	G 1	115	30	391	10	116	61	192	161.00	33	25	8	146	112	9	95	112	9.3
NGXM 3/100	G 1	G 1	115	30	391	10	116	61	192	161.00	33	25	8	146	112	9	95	112	9.3
NGXM 4/110	G 1	G 1	115	30	391	10	116	61	192	161.00	33	25	8	146	112	9	95	112	10.2
NGXM 4/16	G 1 1/4	G 1	140	33	462	11	152	68	225	213.5	37.5	28	9.5	185	155	9.5	113	147	14.4
NGXM 4/18	G 1 1/4	G 1	140	33	488.5	11	152	68	225	213.5	37.5	28	9.5	185	155	9.5	113	147	15
NGXM 4/22	G 1 1/4	G 1	140	33	488.5	11	152	68	225	213.5	37.5	28	9.5	185	155	9.5	113	147	14.7
NGXM 6/18	G 1 1/4	G 1	140	33	488.5	11	152	68	240	213.5	37.5	28	9.5	185	155	9.5	113	157.5	17.4
NGXM 6/22	G 1 1/4	G 1	140	33	488.5	11	152	68	240	213.5	37.5	28	9.5	185	155	9.5	113	157.5	17.4

TYPE	ISO 228		mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l5	m1	m2	m3	n1	n2	s	w	w1	Weight
NGX 2/80/A	G 1	G 1	115	30	391	10	116	61	192	161.00	33	25	8	146	112	9	95	112	8.4
NGX 3/100	G 1	G 1	115	30	391	10	116	61	192	161.00	33	25	8	146	112	9	95	112	8.3
NGX 4/110	G 1	G 1	115	30	391	10	116	61	192	161.00	33	25	8	146	112	9	95	112	10.9
NGX 4/16	G 1 1/4	G 1	140	33	462	11	152	68	225	213.5	37.5	28	9.5	185	155	9.5	113	147	14.8
NGX 4/18	G 1 1/4	G 1	140	33	488.5	11	152	68	225	213.5	37.5	28	9.5	185	155	9.5	113	147	14.8
NGX 4/22	G 1 1/4	G 1	140	33	488.5	11	152	68	225	213.5	37.5	28	9.5	185	155	9.5	113	147	14.8
NGX 6/18/A	G 1 1/4	G 1	140	33	488.5	11	152	68	240	213.5	37.5	28	9.5	185	155	9.5	113	157.5	18.1
NGX 6/22/A	G 1 1/4	G 1	140	33	488.5	11	152	68	240	213.5	37.5	28	9.5	185	155	9.5	113	157.5	17.3