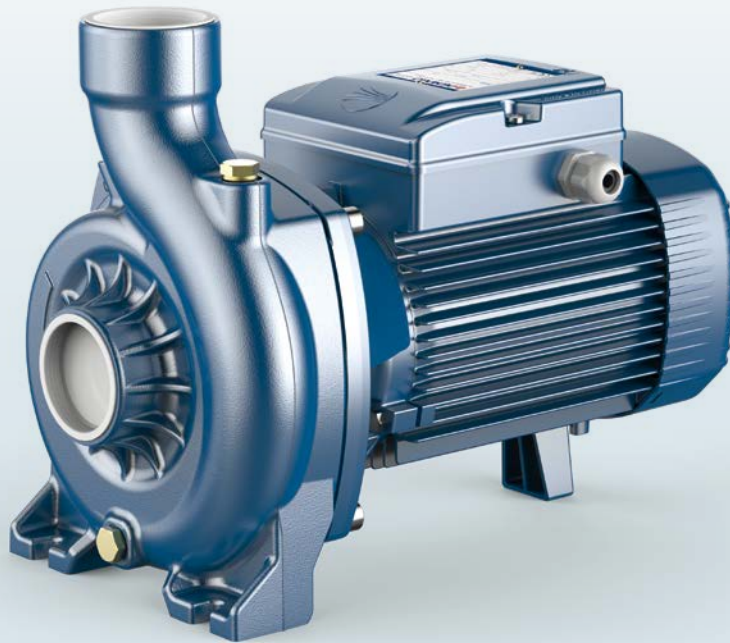


 Domestic use

 Agricultural use

 Industrial use



PERFORMANCE RANGE

- Flow rate up to **900 l/min** (54 m³/h)
- Head up to **20.5 m**

INSTALLATION AND USE

Designed to transfer liquids that will not damage the pump's components, NGAS pumps feature an open impeller design.

This allows them to efficiently handle impurity-laden fluids without clogging, making them ideal for various applications including transfers from channels, rivers, tanks, basins, and more.

NGAs pumps are particularly suitable for pumping non-entirely clean liquids, facilitating the movement of solid particles up to **20 mm** in size.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** up and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum working pressure:
 - **6 bar** for NGA1 and NGA2
 - **10 bar** for NGA3
- Passing solid in suspension up to:
 - **Ø 12 mm** for NGA1 and NGA2
 - **Ø 20 mm** for NGA3

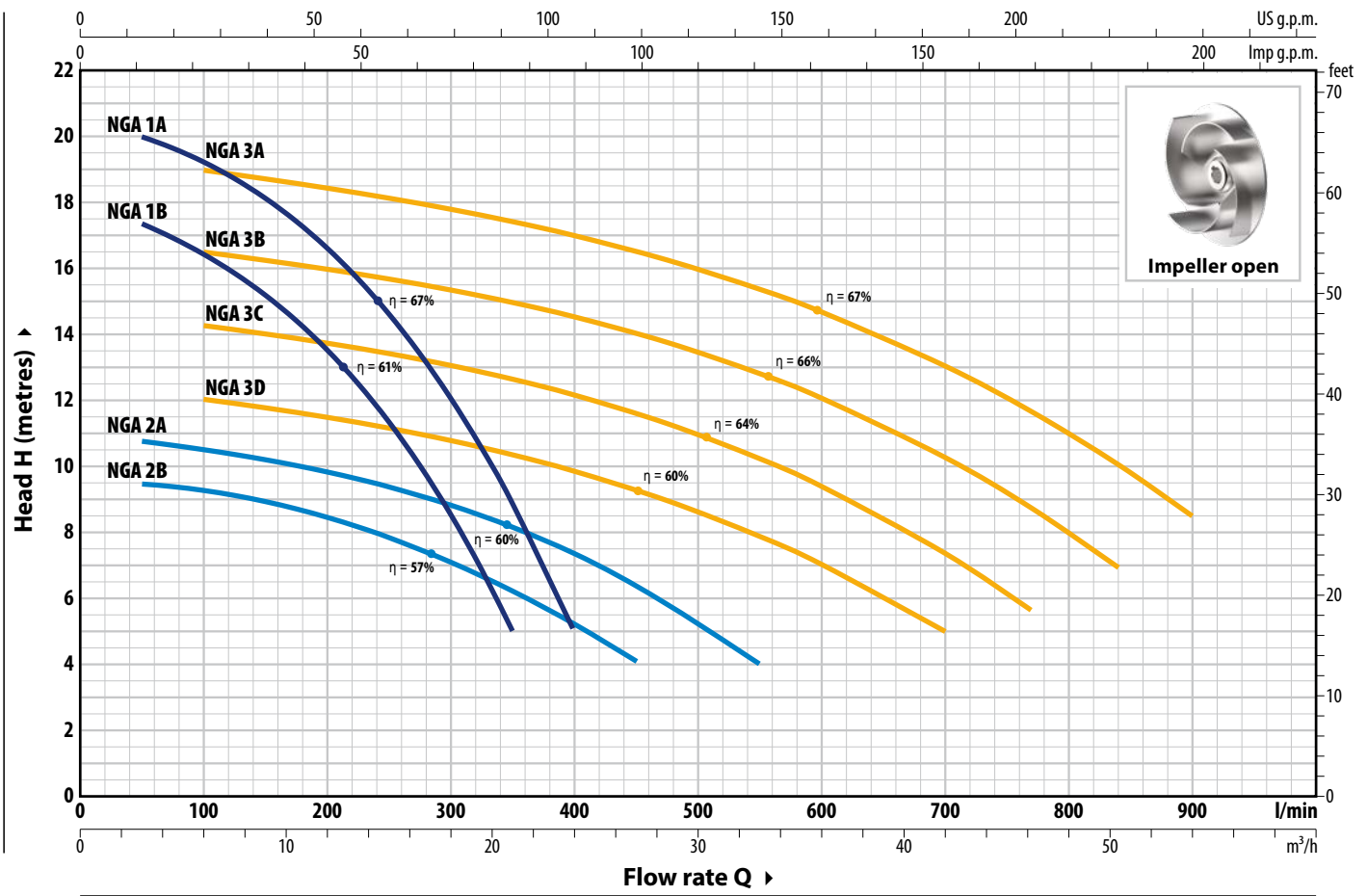
AVAILABLE UPON REQUEST

- ✘ Mechanical seal options available
- ✘ Pump body with NPT threaded ports ANSI B 1.20.1
- ✘ On request up to **110 °C**
- ✘ **IP X5** protection for **NGA 3**
- ✘ Different voltage requirements 60 Hz frequency
- ✘ Supply of ISO 228/1 flanges for suction and delivery ports in AISI 304 stainless steel



CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P ₂)		1~3~	Q	Flow rate (l/min)											
Single-phase	Three-phase	kW	HP			0	3	6	9	12	15	18	21	24			
NGAm 1B	NGA 1B	0.55	0.75	IE2 IE3	H metres	0	50	100	150	200	250	300	350	400			
NGAm 1A	NGA 1A	0.75	1			18	17.4	16.4	15.2	13.5	11.3	8.7	5				
						20.5	20	19.3	18	16.6	14.7	12	9	5			

TYPE		POWER (P ₂)		1~3~	Q	Flow rate (l/min)															
Single-phase	Three-phase	kW	HP			0	3	6	12	18	24	27	33	42	46	51	54				
NGAm 2B	NGA 2B	0.55	0.75	IE2 IE3	H metres	0	50	100	200	300	400	450	550	700	770	840	900				
NGAm 2A	NGA 2A	0.75	1			9.5	9.4	9.3	8.4	7	5.2	4									
NGAm 3D	NGA 3D	1.1	1.5			11	10.8	10.5	9.8	8.8	7.4	6.4	4								
NGAm 3C	NGA 3C	1.5	2			12.5	–	12	11.5	10.8	9.8	9.3	7.8	5							
NGAm 3B	NGA 3B	1.8	2.5			14.8	–	14.4	13.8	13.1	12.2	11.7	10.3	7.4	5.7						
NGAm 3A	NGA 3A	2.2	3			17	–	16.5	16	15.3	14.5	14	12.8	10.3	8.8	7					
						19.5	–	19	18.4	17.8	17	16.5	15.4	13	11.5	10	8.5				

Q = Flow rate H = Total manometric head HS = Suction height

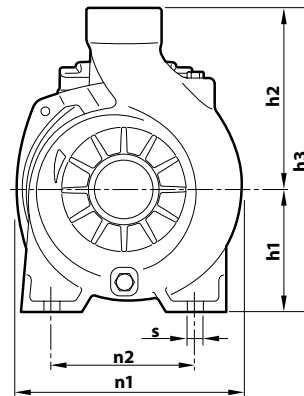
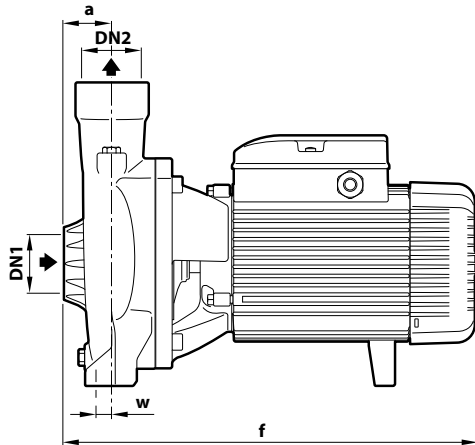
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	230 V
NGAm 1B	5.5 A
NGAm 1A	6.0 A
NGAm 2B	5.0 A
NGAm 2A	5.7 A
NGAm 3D	7.5 A
NGAm 3C	9.5 A
NGAm 3B	10.5 A
NGAm 3A	12.5 A

TYPE	VOLTAGE	
Three-phase	230 V - Δ	400 V - ƾ
NGA 1B	3.8 A	2.2 A
NGA 1A	4.2 A	2.4 A
NGA 2B	3.5 A	2.0 A
NGA 2A	4.0 A	2.3 A
NGA 3D	5.0 A	2.9 A
NGA 3C	6.1 A	3.5 A
NGA 3B	7.8 A	4.5 A
NGA 3A	8.3 A	4.8 A

DIMENSIONS AND WEIGHT

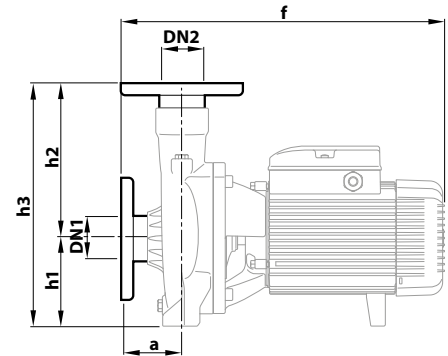


WITH THREADED PORTS

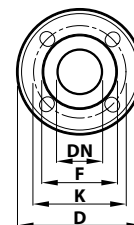
TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	Three-phase	DN1	DN2	a	f	h1	h2	h3	n1	n2	w	s	1~	3~
NGAm 1B	NGA 1B	1½"	1½"	40	299	92	135	227	190	160	6	11	12.6	12.6
NGAm 1A	NGA 1A			32									12.7	12.6
NGAm 2B	NGA 2B			32									12.7	12.6
NGAm 2A	NGA 2A			32									12.7	12.6
NGAm 3D	NGA 3D	2"	2"	48	387	120	178	298	217	140	18	11.5	22.0	21.2
NGAm 3C	NGA 3C			407									22.9	22.9
NGAm 3B	NGA 3B			407									25.4	25.5
NGAm 3A	NGA 3A			407									25.5	25.5

WITH FLANGED PORTS

TYPE		PORTS		DIMENSIONS mm					
Single-phase	Three-phase	DN1	DN2	a	f	h1	h2	h3	
NGAm 1B	NGA 1B	40	40	60	334	92	156	248	
NGAm 1A	NGA 1A			52	342				
NGAm 2B	NGA 2B			52	342				
NGAm 2A	NGA 2A			52	342				
NGAm 3D	NGA 3D	50	50	70	408	120	200	320	
NGAm 3C	NGA 3C			428					
NGAm 3B	NGA 3B			428					
NGAm 3A	NGA 3A			428					



FLANGE	D	K	F	HOLES	
DN	mm	mm	mm	N°	Ø (mm)
40	150	110	78	4	18
50	165	125	99	4	18



MATERIALS AND COMPONENTS

1 Pump body Cast iron JL 250 with cataphoresis treatment with ISO 228/1 threaded ports

2 Cover Cast iron JL 200 for NGA3
AISI 304 stainless steel for NGA1 and NGA2

3 Impeller Open impeller in **AISI 316** stainless steel (from January 2024)

4 Mechanical seal	Water pump	Seal	Shaft	Materials
NGA1		AR-14	Ø 14 mm	Ceramic / Graphite / NBR
NGA2		FN-18	Ø 18 mm	Graphite / Ceramic / NBR
NGA3		FN-18	Ø 18 mm	Graphite / Ceramic / NBR

5 Motor shaft Stainless steel **AISI 431**

6 Electric motor **NGAm:** single-phase 230 V - 50Hz with winding integrated thermal motor protection
NGA: three-phase 230/400 V - 50 Hz
※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1)
class **IE2** for single-phase models
class **IE3** for three-phase models
Continuous running duty **S1**

