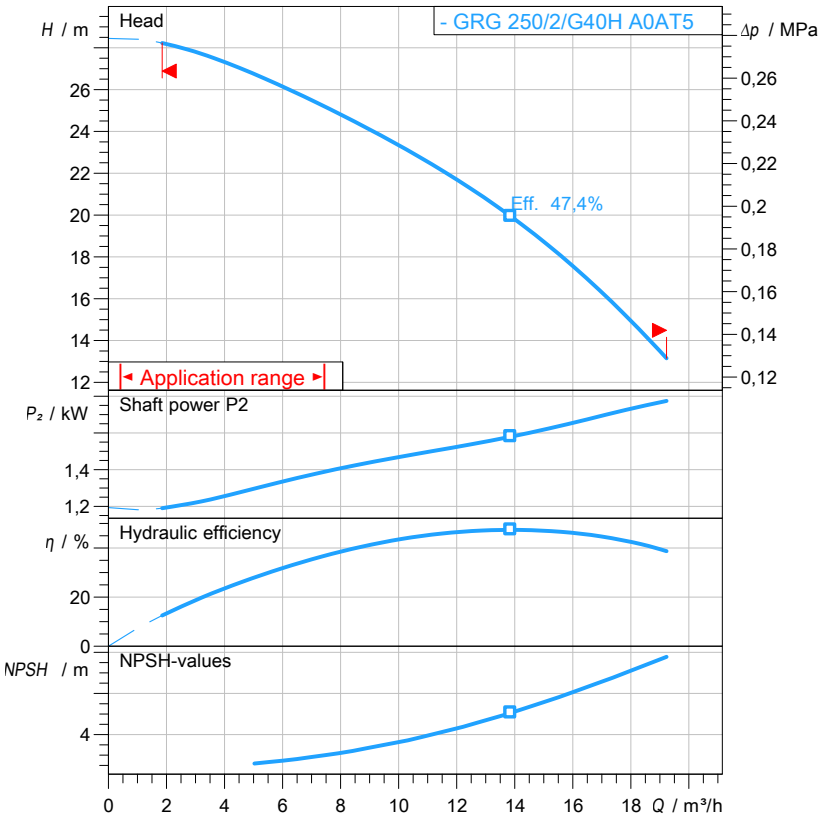
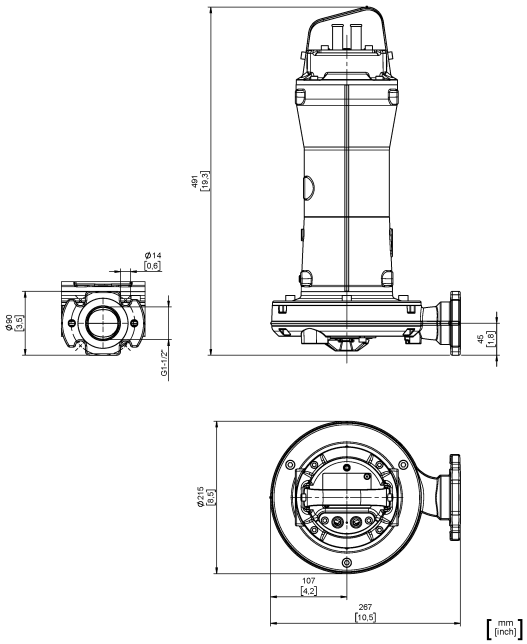
GRG 250/2/G40H A0AT5

Technical specification

3~ 50 Hz



Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B



Pump

Series	GREY series
Pump name	GRG 250/2/G40H A0AT5
Configuration	NGNAB51040N00NN
Standard	CE

Motor data

Rated voltage	400 V
Frequency	50 Hz
Motor phases	3~
Number of poles	2
Rated power P2	1,8 kW
Incoming power P1	2,19 kW
Rated current	3,7 A
rpm	2794 1/min
Efficiency	82,3 %
cos φ	0,853
Rated torque	6,2 Nm
Start	Direct starting
Degree of protection	IP 68
Insulation class	H

Hydraulic

Type	GR (Impeller with grinder system)
Free passage	0 mm
Impeller type	Open channel impeller with grinder system
Max. hydraulic efficiency	47,4 %
Suction	
Discharge	DN 32 - G 1"1/2 EN 1092-2
Curve tolerance	UNI EN ISO 9906:2012

Operating limits (standard pumps)

Max. ambient temperature	40 °C
Max. density treated liquid	1100 kg/m³
pH treated liquid	6 ÷ 14
Max. start per hour (equally distributed)	30
Wet/dry use	WET
Max. acoustic pressure level	70 dB
Operating mode	S1 - Continuous use

Construction materials

Case	Cast iron EN-GJL 250
Shaft	Stainless steel AISI 431
Hydraulic	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Painting/Coating	Bi-epoxy 200 µm sea water resistant
Screws	Stainless steel - Class A2-70
Gaskets	NBR
Cutter	Chromium steel - X102 CrMo17 KU
Cutting disk	Chromium steel - X102 CrMo17 KU

Construction features

Cooling system	No cooling jacket
Main cable	4G1
Cable length	10 mt
Mechanical seals	2 in silicon carbide (2SiC)
Additional drilling	-
Weight*	32 kg
Electrical variant	No electrical device equipped

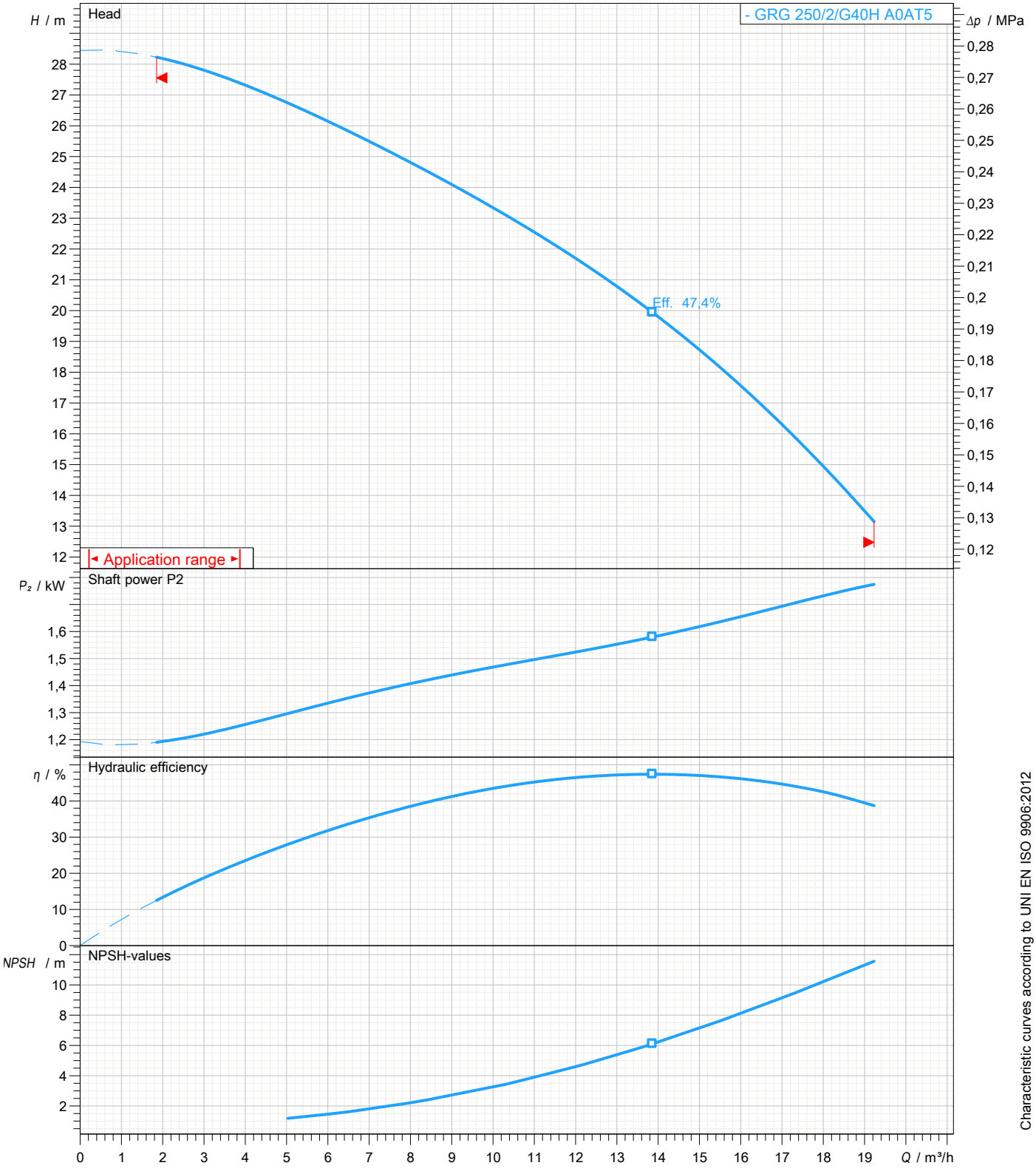
*** cable, stand and guiding system excluded**

Pump performance curves

3~ 50 Hz

Hydraulic type	Impeller type	Free passage	Discharge	Suction
GR (Impeller with grinder system)	Open channel impeller with grinder system	0 mm	DN 32 - G 1"1/2	

DUTY POINT					
Flow	**Head**	**Shaft power P2**	**Hydraulic efficiency**	**Density** 998,3 kg/m³	**Viscosity** 1,005 mm²/s

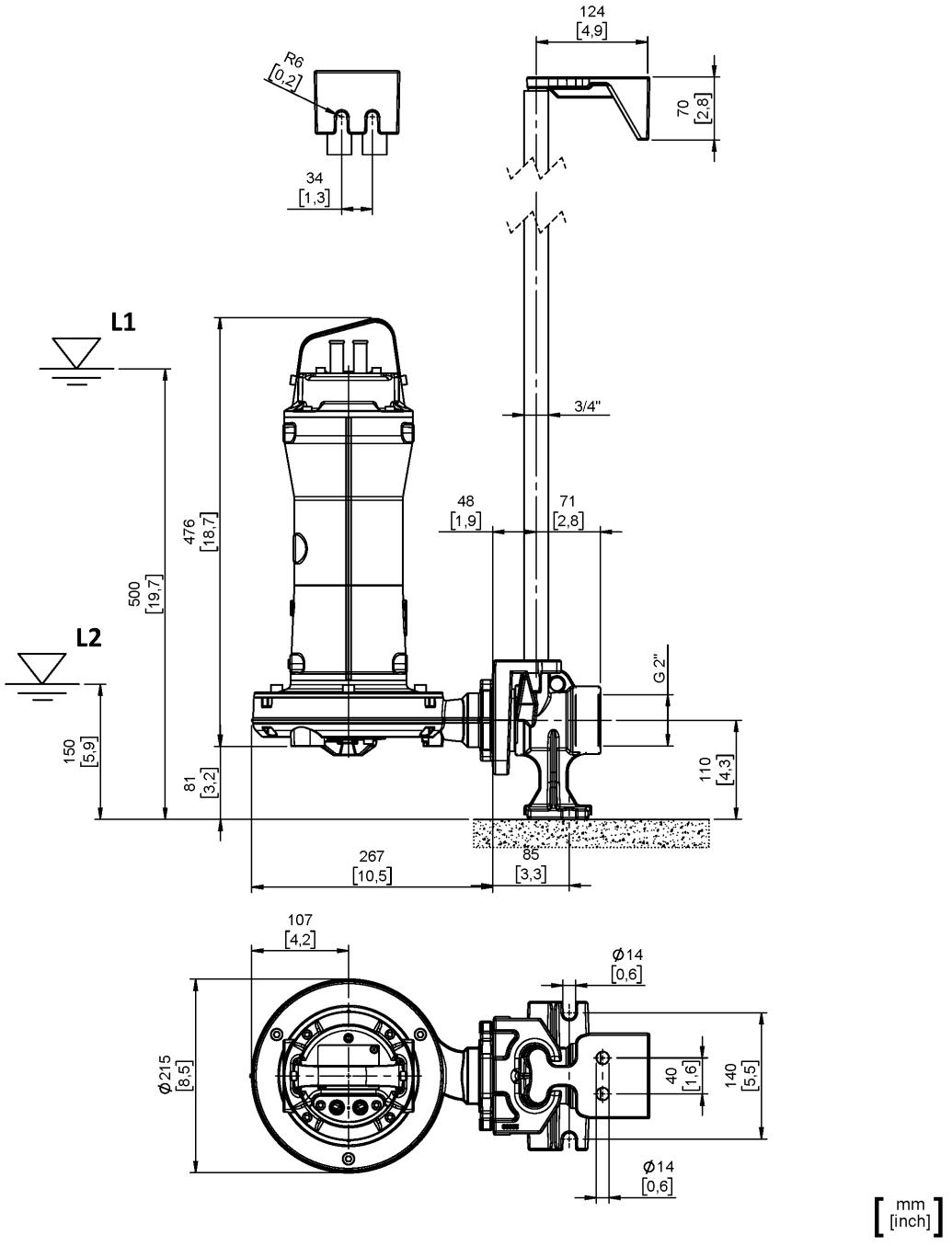


Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B

Dimensional drawing

3~ 50 Hz

Installation type Installation with bottom coupling device - Horizontal/vertical outlet		
Wet/dry use WET	**Drilling variant** N	**Flushing valve - drilling** -
Discharge DN 32 - G 1"1/2 EN 1092-2	**Suction:**	**Pressure rating (suction/discharge)** PN 6
Accessory DAC 32-50/G50H-G50V+KAF 3/4" EN (P)		**Accessory code** 9028.010
Note: Accessory must be ordered separately		

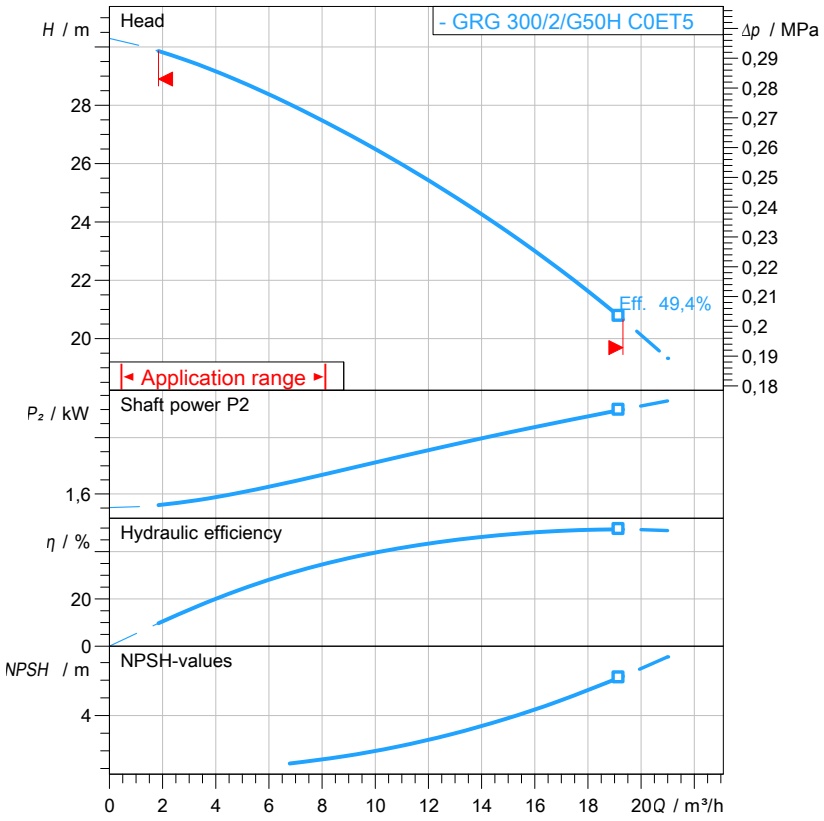


L1: Minimum operating level for continuous use

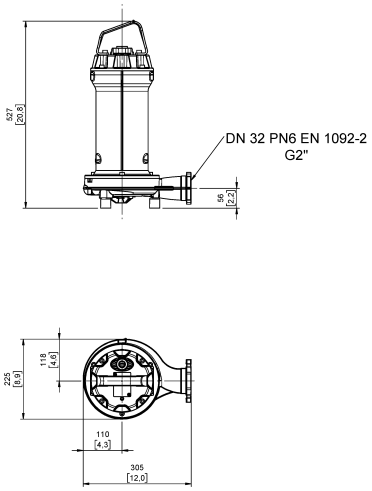
L2: Minimum operating level for discontinuous use (only "WET" version)

Technical specification

3~ 50 Hz



Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B



[mm [inch]]

Pump

Series	GREY series
Pump name	GRG 300/2/G50H C0ET5
Configuration	NGTSB51040N00NN
Standard	CE

Motor data

Rated voltage	400 V
Frequency	50 Hz
Motor phases	3~
Number of poles	2
Rated power P2	2,2 kW
Incoming power P1	2,76 kW
Rated current	4,62 A
rpm	2880 1/min
Efficiency	79,7 %
cos φ	0,862
Rated torque	7,3 Nm
Start	Direct starting
Degree of protection	IP 68
Insulation class	H

Hydraulic

Type	GR (Impeller with grinder system)
Free passage	0 mm
Impeller type	Open channel impeller with grinder system
Max. hydraulic efficiency	49,4 %
Suction	
Discharge	DN 32 - G 2" EN 1092-2
Curve tolerance	UNI EN ISO 9906:2012

Operating limits (standard pumps)

Max. ambient temperature	40 °C
Max. density treated liquid	1100 kg/m³
pH treated liquid	6 ÷ 14
Max. start per hour (equally distributed)	30
Wet/dry use	WET
Max. acoustic pressure level	70 dB
Operating mode	S1 - Continuous use

Construction materials

Case	Cast iron EN-GJL 250
Shaft	Stainless steel AISI 431
Hydraulic	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Painting/Coating	Bi-epoxy 200 µm sea water resistant
Screws	Stainless steel - Class A2-70
Gaskets	NBR
Cutter	Chromium steel - X102 CrMo17 KU
Cutting disk	Chromium steel - X102 CrMo17 KU

Construction features

Cooling system	No cooling jacket
Main cable	4G1,5 + 3x1
Cable length	10 mt
Mechanical seals	2 in silicon carbide (2SiC)
Additional drilling	-
Weight*	43,2 kg
Electrical variant	Thermal protection and leakage sensor

*** cable, stand and guiding system excluded**

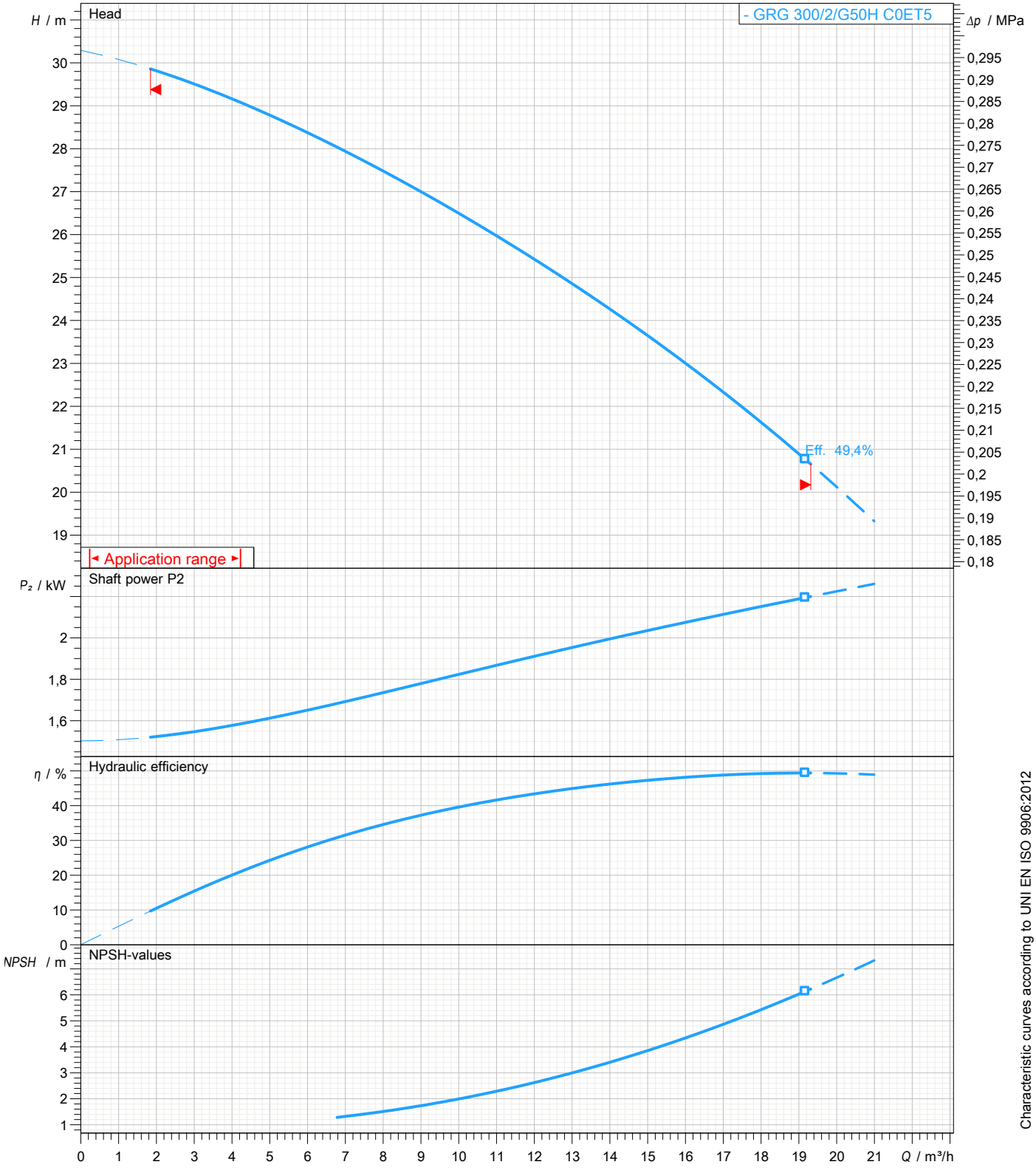
Pump performance curves

3~ 50 Hz

Hydraulic type	Impeller type	Free passage	Discharge	Suction
GR (Impeller with grinder system)	Open channel impeller with grinder system	0 mm	DN 32 - G 2"	

DUTY POINT

Flow	Head	Shaft power P2	Hydraulic efficiency	Density	Viscosity
				998,3 kg/m³	1,005 mm²/s

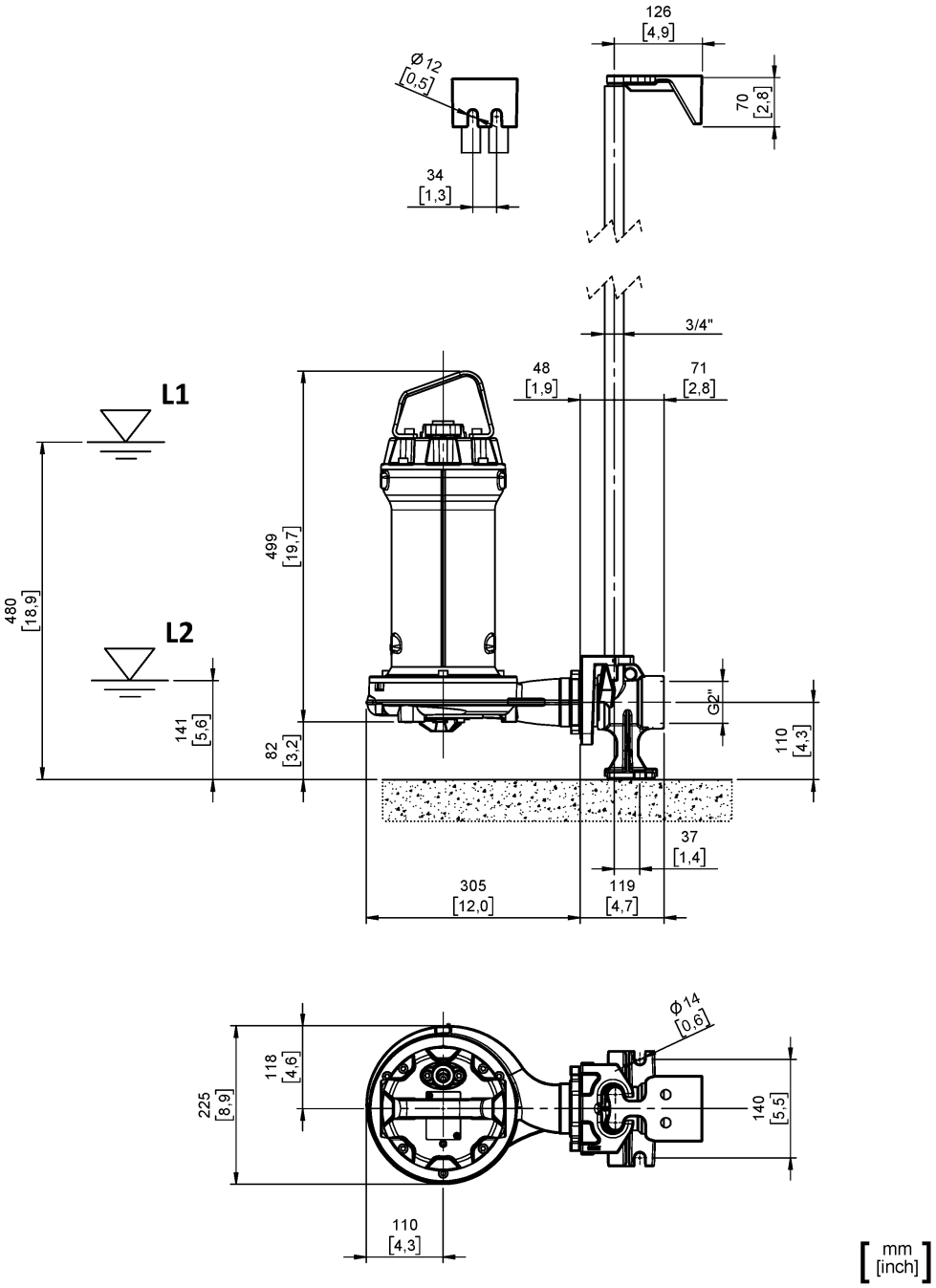


Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B

Dimensional drawing

3~ 50 Hz

Installation type Installation with bottom coupling device - Horizontal/vertical outlet		
Wet/dry use WET	**Drilling variant** N	**Flushing valve - drilling** -
Discharge DN 32 - G 2" EN 1092-2	**Suction:**	**Pressure rating (suction/discharge)** PN 6
Accessory DAC 32-50/G50H-G50V+KAF 3/4" EN (P)		**Accessory code** 9028.010
Note: Accessory must be ordered separately		

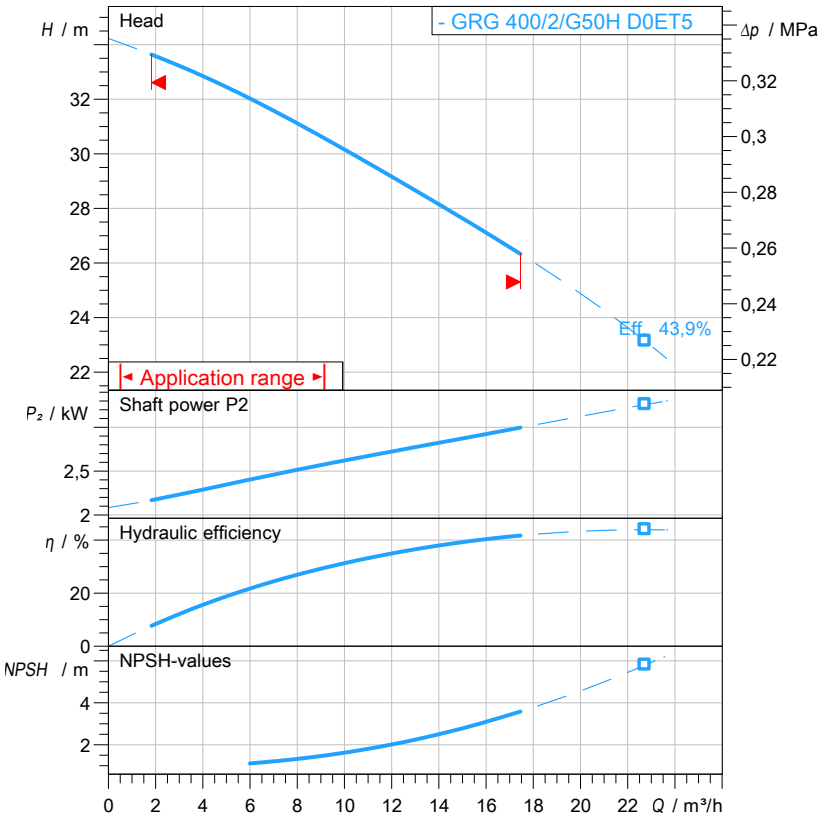


L1: Minimum operating level for continuous use

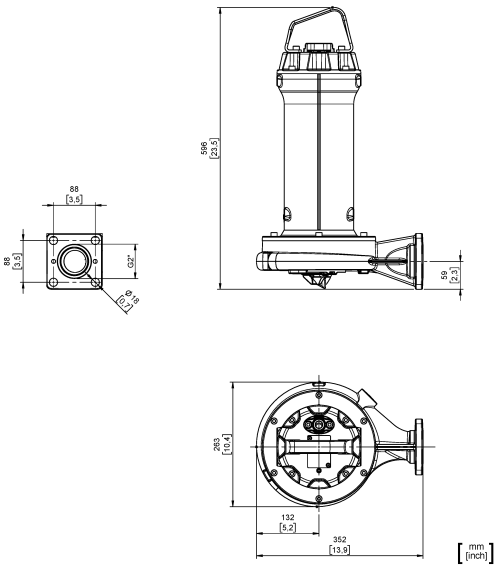
L2: Minimum operating level for discontinuous use (only "WET" version)

Technical specification

3~ 50 Hz



Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B



Pump

Series	GREY series
Pump name	GRG 400/2/G50H D0ET5
Configuration	NGTSB51040N00NN
Standard	CE

Motor data

Rated voltage	400 V
Frequency	50 Hz
Motor phases	3~
Number of poles	2
Rated power P2	3 kW
Incoming power P1	3,68 kW
Rated current	6,36 A
rpm	2877 1/min
Efficiency	81,5 %
cos φ	0,835
Rated torque	10,0 Nm
Start	Direct starting
Degree of protection	IP 68
Insulation class	H

Hydraulic

Type	GR (Impeller with grinder system)
Free passage	0 mm
Impeller type	Open channel impeller with grinder system
Max. hydraulic efficiency	43,9 %
Suction	
Discharge	DN 32 - G 2" EN 1092-2
Curve tolerance	UNI EN ISO 9906:2012

Operating limits (standard pumps)

Max. ambient temperature	40 °C
Max. density treated liquid	1100 kg/m³
pH treated liquid	6 ÷ 14
Max. start per hour (equally distributed)	30
Wet/dry use	WET
Max. acoustic pressure level	70 dB
Operating mode	S1 - Continuous use

Construction materials

Case	Cast iron EN-GJL 250
Shaft	Stainless steel AISI 431
Hydraulic	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Painting/Coating	Bi-epoxy 200 µm sea water resistant
Screws	Stainless steel - Class A2-70
Gaskets	NBR
Cutter	Chromium steel - X102 CrMo17 KU
Cutting disk	Chromium steel - X102 CrMo17 KU

Construction features

Cooling system	No cooling jacket
Main cable	4G1,5 + 3x1
Cable length	10 mt
Mechanical seals	2 in silicon carbide (2SiC)
Additional drilling	-
Weight*	45 kg
Electrical variant	Thermal protection and leakage sensor

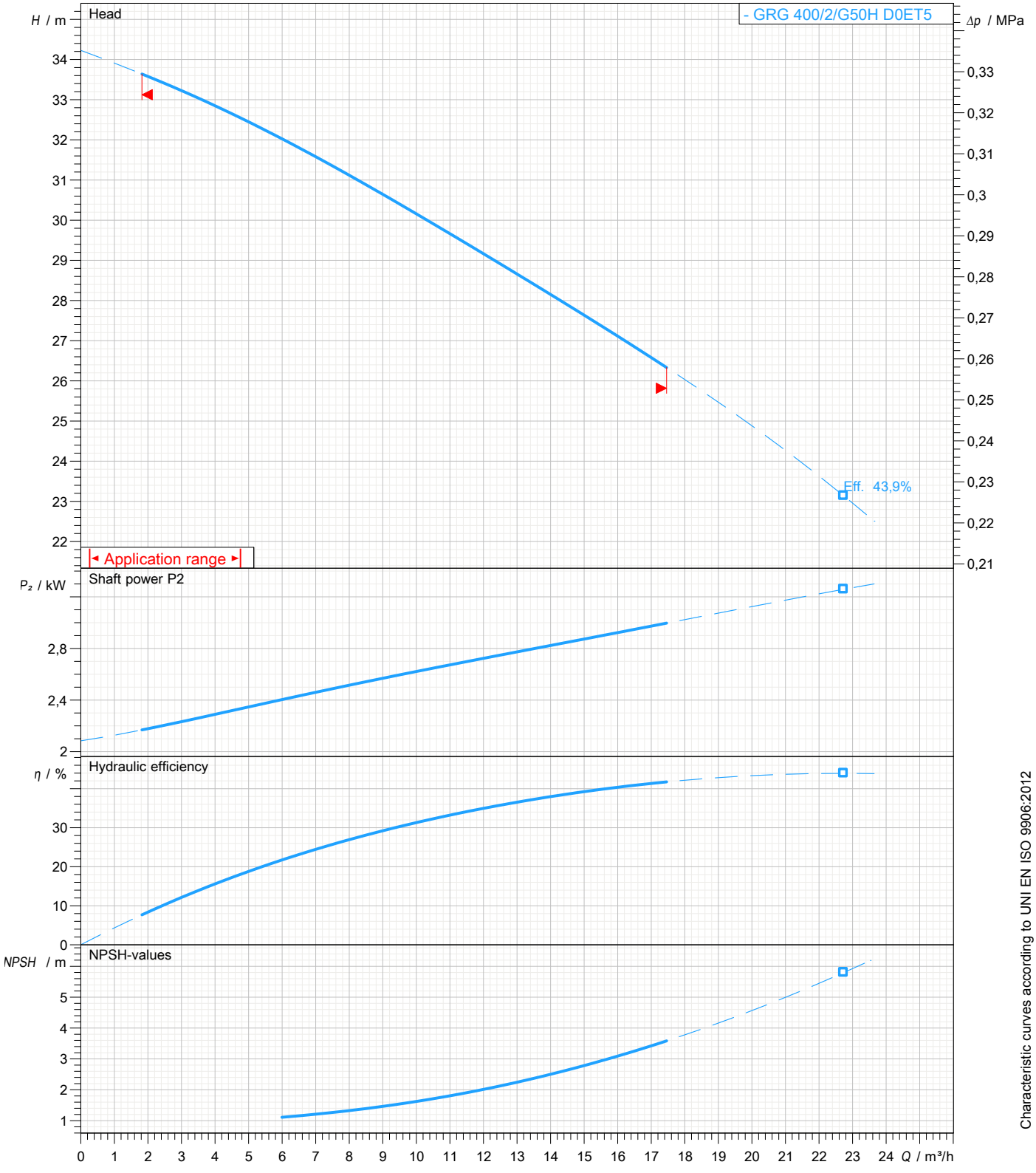
*** cable, stand and guiding system excluded**

Pump performance curves

3~ 50 Hz

Hydraulic type	Impeller type	Free passage	Discharge	Suction
GR (Impeller with grinder system)	Open channel impeller with grinder system	0 mm	DN 32 - G 2"	

DUTY POINT					
Flow	**Head**	**Shaft power P2**	**Hydraulic efficiency**	**Density** 998,3 kg/m³	**Viscosity** 1,005 mm²/s

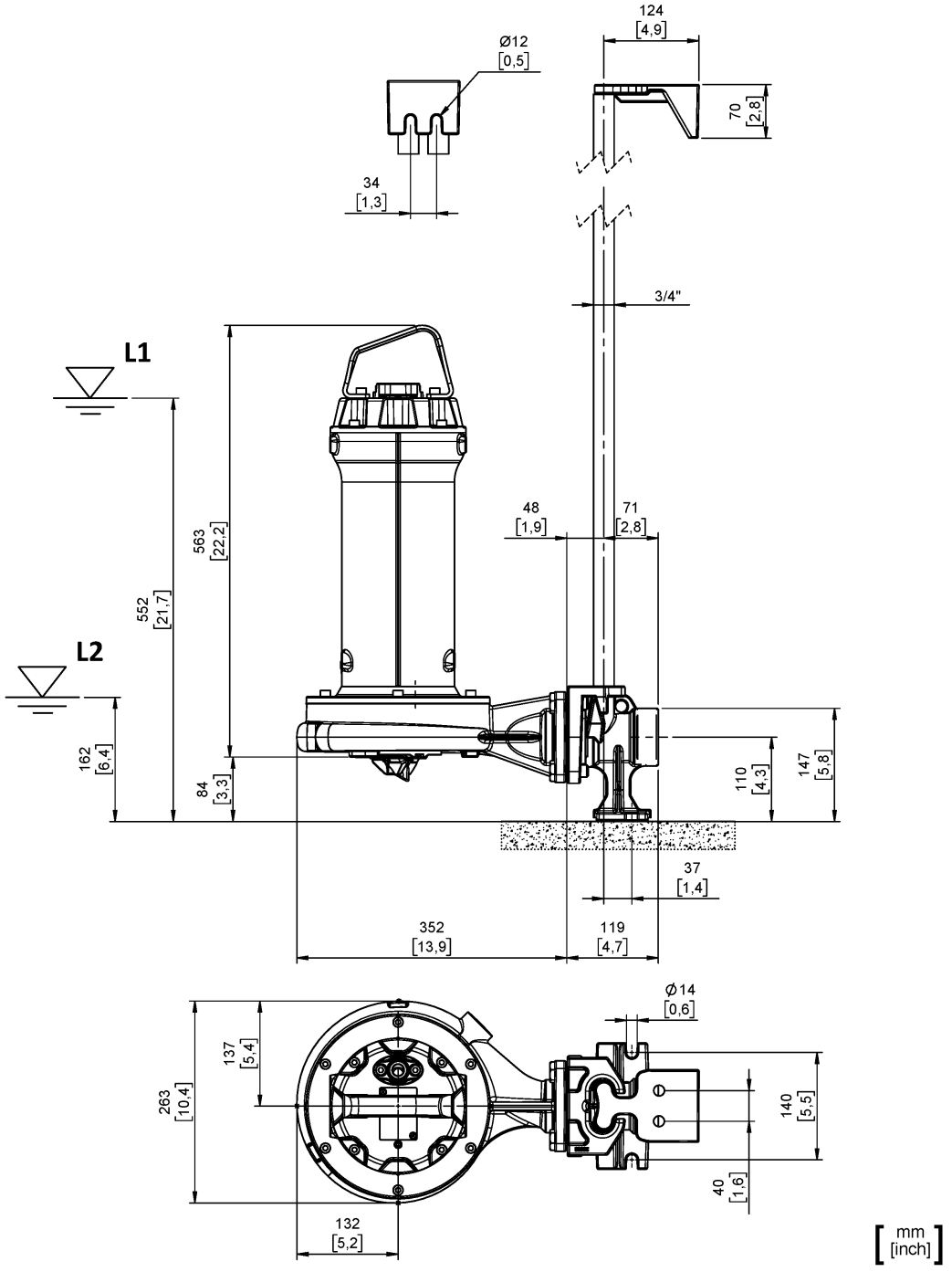


Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B

Dimensional drawing

3~ 50 Hz

Installation type Installation with bottom coupling device - Horizontal/vertical outlet		
Wet/dry use WET	**Drilling variant** N	**Flushing valve - drilling** -
Discharge DN 32 - G 2" EN 1092-2	**Suction:**	**Pressure rating (suction/discharge)** PN 6
Accessory DAC 32-50/G50H-G50V+KAF 3/4" EN (P)		**Accessory code** 9028.010
Note: Accessory must be ordered separately		

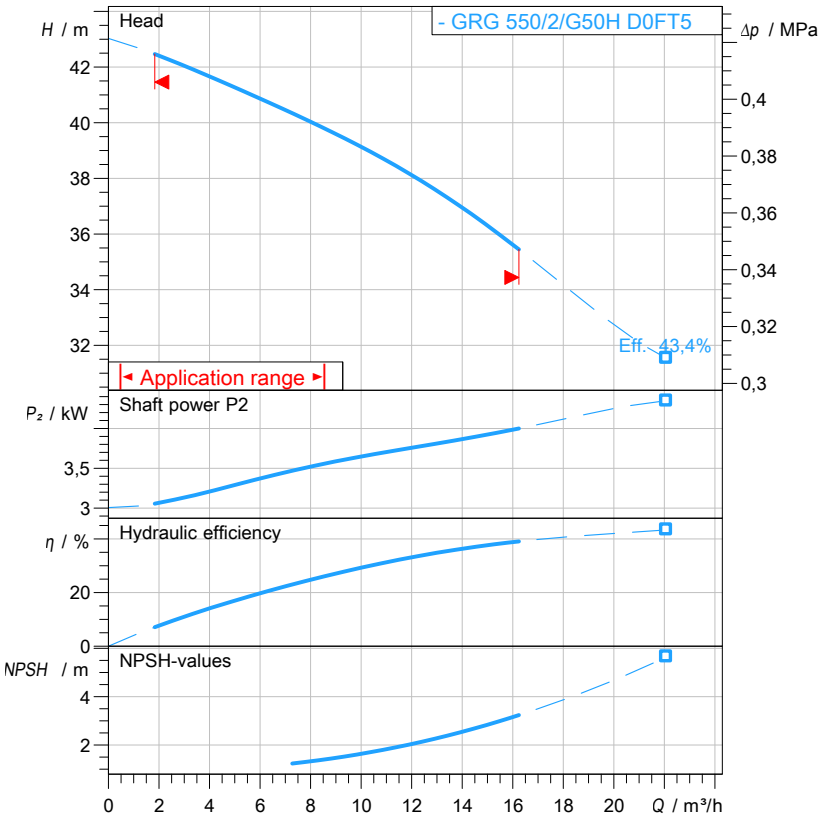


L1: Minimum operating level for continuous use

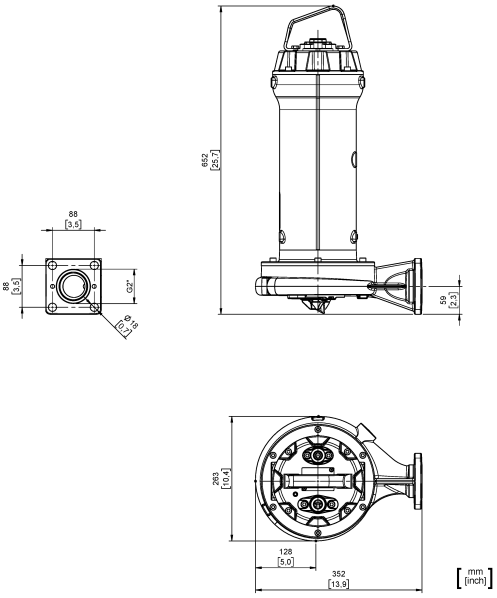
L2: Minimum operating level for discontinuous use (only "WET" version)

Technical specification

3~ 50 Hz



Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B



Pump

Series	GREY series
Pump name	GRG 550/2/G50H D0FT5
Configuration	NGTSB51040N00NN
Standard	CE

Motor data

Rated voltage	400 V
Frequency	50 Hz
Motor phases	3~
Number of poles	2
Rated power P2	4 kW
Incoming power P1	4,66 kW
Rated current	7,73 A
rpm	2876 1/min
Efficiency	85,8 %
cos φ	0,87
Rated torque	13,3 Nm
Start	Direct starting
Degree of protection	IP 68
Insulation class	H

Hydraulic

Type	GR (Impeller with grinder system)
Free passage	0 mm
Impeller type	Open channel impeller with grinder system
Max. hydraulic efficiency	43,4 %
Suction	
Discharge	DN 32 - G 2" EN 1092-2
Curve tolerance	UNI EN ISO 9906:2012

Operating limits (standard pumps)

Max. ambient temperature	40 °C
Max. density treated liquid	1100 kg/m³
pH treated liquid	6 ÷ 14
Max. start per hour (equally distributed)	30
Wet/dry use	WET
Max. acoustic pressure level	70 dB
Operating mode	S1 - Continuous use

Construction materials

Case	Cast iron EN-GJL 250
Shaft	Stainless steel AISI 431
Hydraulic	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Painting/Coating	Bi-epoxy 200 µm sea water resistant
Screws	Stainless steel - Class A2-70
Gaskets	NBR
Cutter	Chromium steel - X102 CrMo17 KU
Cutting disk	Chromium steel - X102 CrMo17 KU

Construction features

Cooling system	No cooling jacket
Main cable	4G1,5 + 3x1
Cable length	10 mt
Mechanical seals	2 in silicon carbide (2SiC)
Additional drilling	-
Weight*	57,6 kg
Electrical variant	Thermal protection and leakage sensor

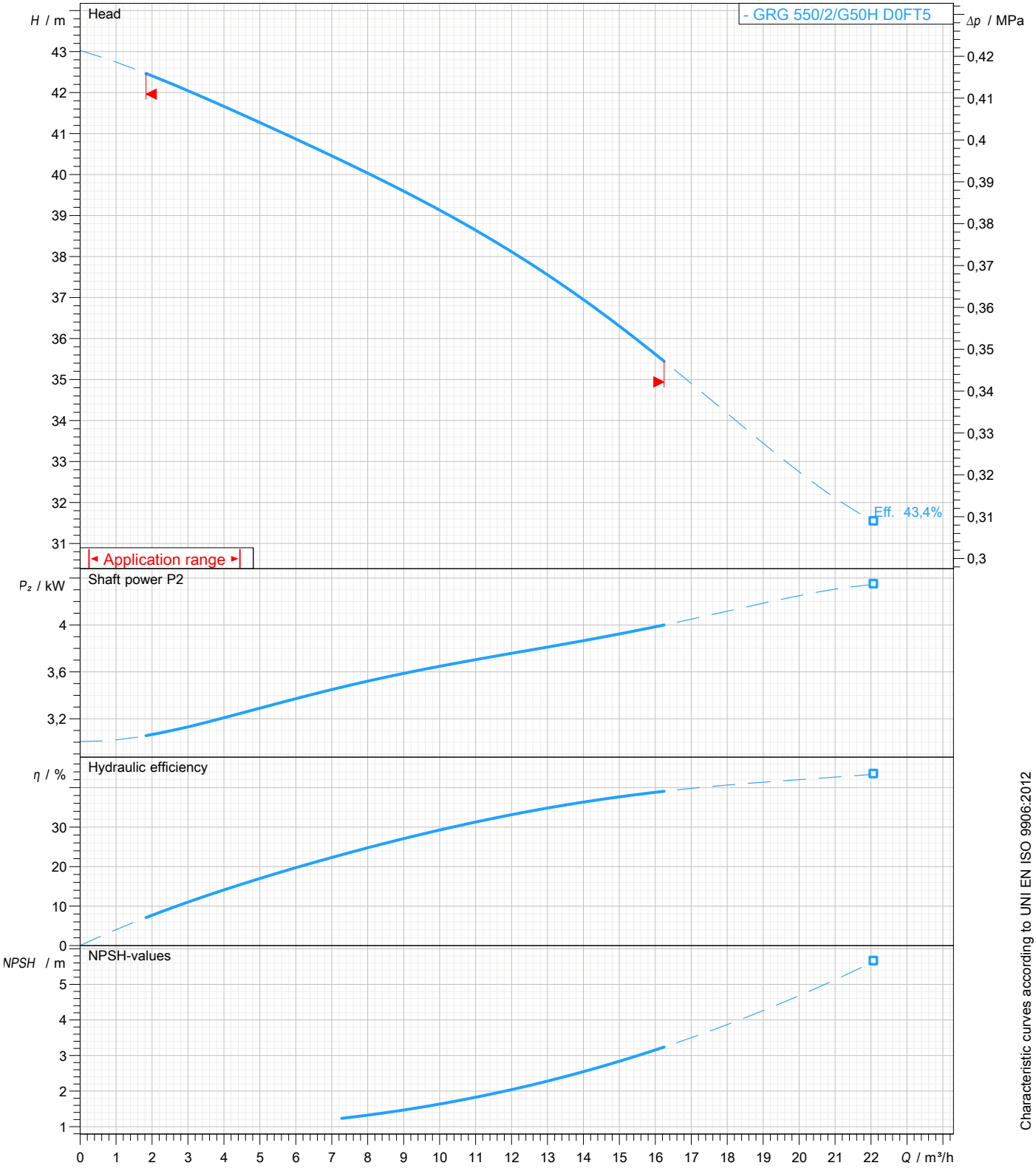
*** cable, stand and guiding system excluded**

Pump performance curves

3~ 50 Hz

Hydraulic type	Impeller type	Free passage	Discharge	Suction
GR (Impeller with grinder system)	Open channel impeller with grinder system	0 mm	DN 32 - G 2"	

DUTY POINT					
Flow	**Head**	**Shaft power P2**	**Hydraulic efficiency**	**Density** 998,3 kg/m³	**Viscosity** 1,005 mm²/s

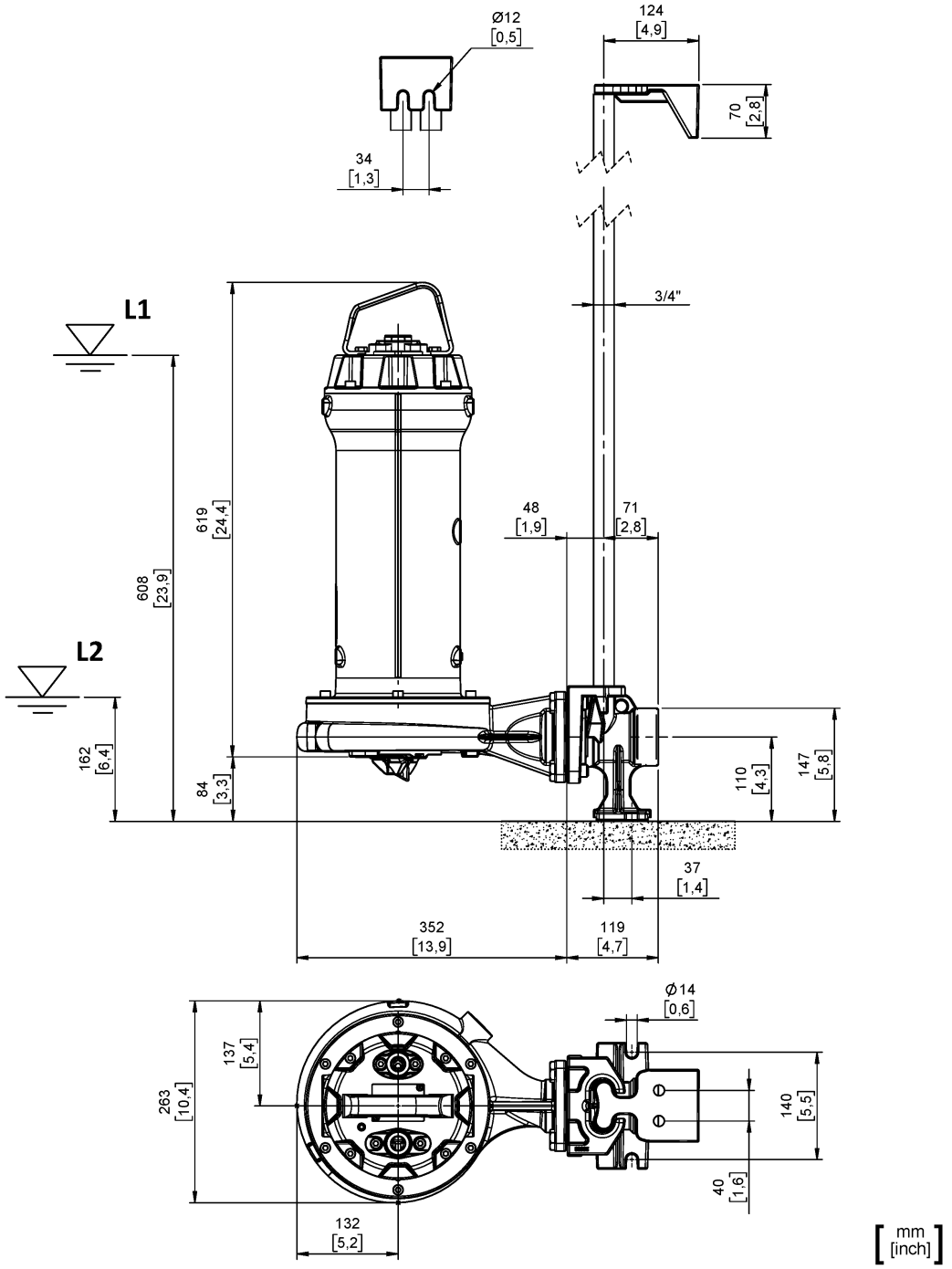


Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B

Dimensional drawing

3~ 50 Hz

Installation type Installation with bottom coupling device - Horizontal/vertical outlet		
Wet/dry use WET	**Drilling variant** N	**Flushing valve - drilling** -
Discharge DN 32 - G 2" EN 1092-2	**Suction:**	**Pressure rating (suction/discharge)** PN 6
Accessory DAC 32-50/G50H-G50V+KAF 3/4" EN (P)		**Accessory code** 9028.010
Note: Accessory must be ordered separately		

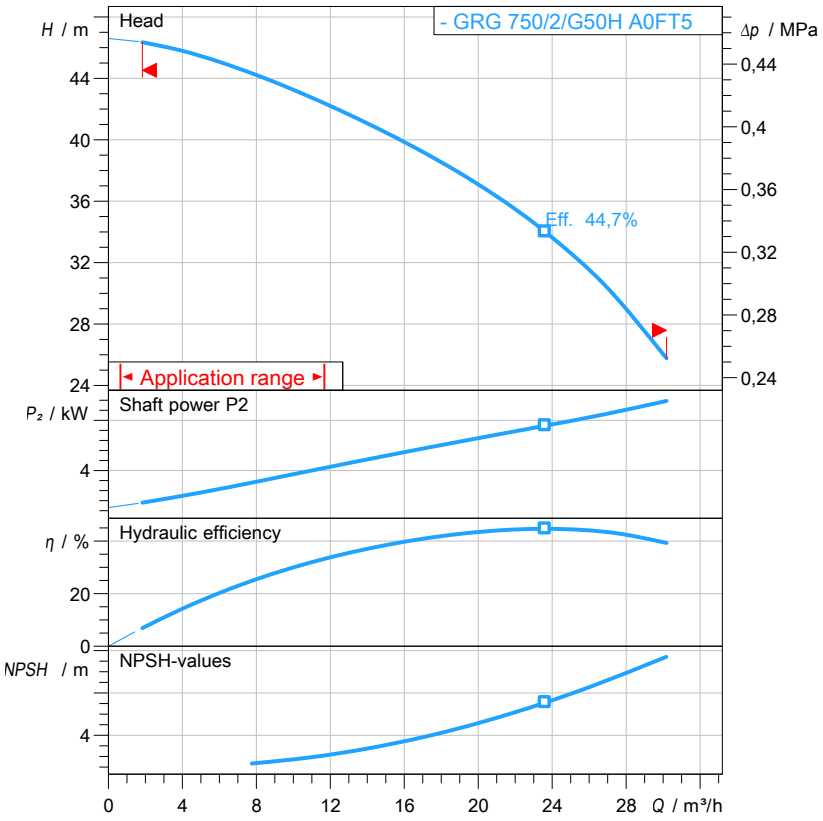


L1: Minimum operating level for continuous use

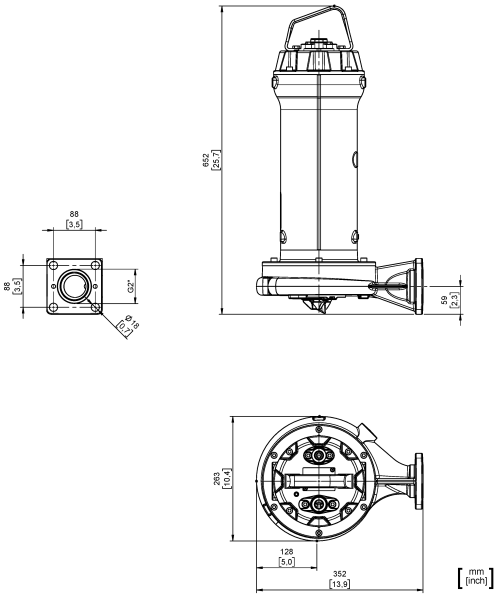
L2: Minimum operating level for discontinuous use (only "WET" version)

Technical specification

3~ 50 Hz



Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B



Pump

Series	GREY series
Pump name	GRG 750/2/G50H A0FT5
Configuration	NGTSB51040N00NN
Standard	CE

Motor data

Rated voltage	400 V
Frequency	50 Hz
Motor phases	3~
Number of poles	2
Rated power P2	5,5 kW
Incoming power P1	6,32 kW
Rated current	10,8 A
rpm	2866 1/min
Efficiency	87 %
cos φ	0,845
Rated torque	18,3 Nm
Start	Direct starting
Degree of protection	IP 68
Insulation class	H

Hydraulic

Type	GR (Impeller with grinder system)
Free passage	0 mm
Impeller type	Open channel impeller with grinder system
Max. hydraulic efficiency	44,7 %
Suction	
Discharge	DN 32 - G 2" EN 1092-2
Curve tolerance	UNI EN ISO 9906:2012

Operating limits (standard pumps)

Max. ambient temperature	40 °C
Max. density treated liquid	1100 kg/m³
pH treated liquid	6 ÷ 14
Max. start per hour (equally distributed)	30
Wet/dry use	WET
Max. acoustic pressure level	70 dB
Operating mode	S1 - Continuous use

Construction materials

Case	Cast iron EN-GJL 250
Shaft	Stainless steel AISI 431
Hydraulic	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Painting/Coating	Bi-epoxy 200 µm sea water resistant
Screws	Stainless steel - Class A2-70
Gaskets	NBR
Cutter	Chromium steel - X102 CrMo17 KU
Cutting disk	Chromium steel - X102 CrMo17 KU

Construction features

Cooling system	No cooling jacket
Main cable	4G1,5 + 3x1
Cable length	10 mt
Mechanical seals	2 in silicon carbide (2SiC)
Additional drilling	-
Weight*	60,3 kg
Electrical variant	Thermal protection and leakage sensor

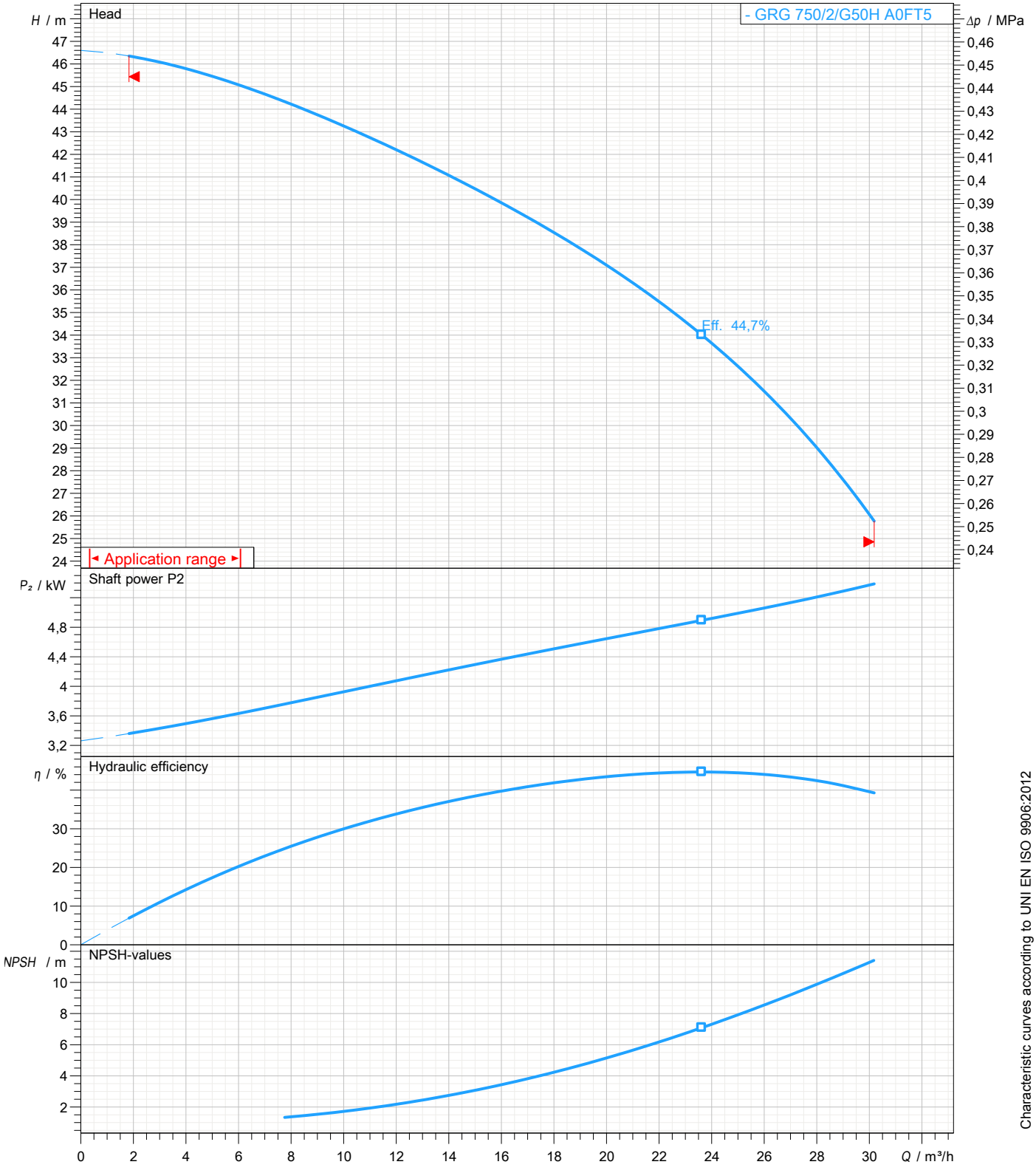
*** cable, stand and guiding system excluded**

Pump performance curves

3~ 50 Hz

Hydraulic type	Impeller type	Free passage	Discharge	Suction
GR (Impeller with grinder system)	Open channel impeller with grinder system	0 mm	DN 32 - G 2"	

DUTY POINT					
Flow	**Head**	**Shaft power P2**	**Hydraulic efficiency**	**Density** 998,3 kg/m³	**Viscosity** 1,005 mm²/s

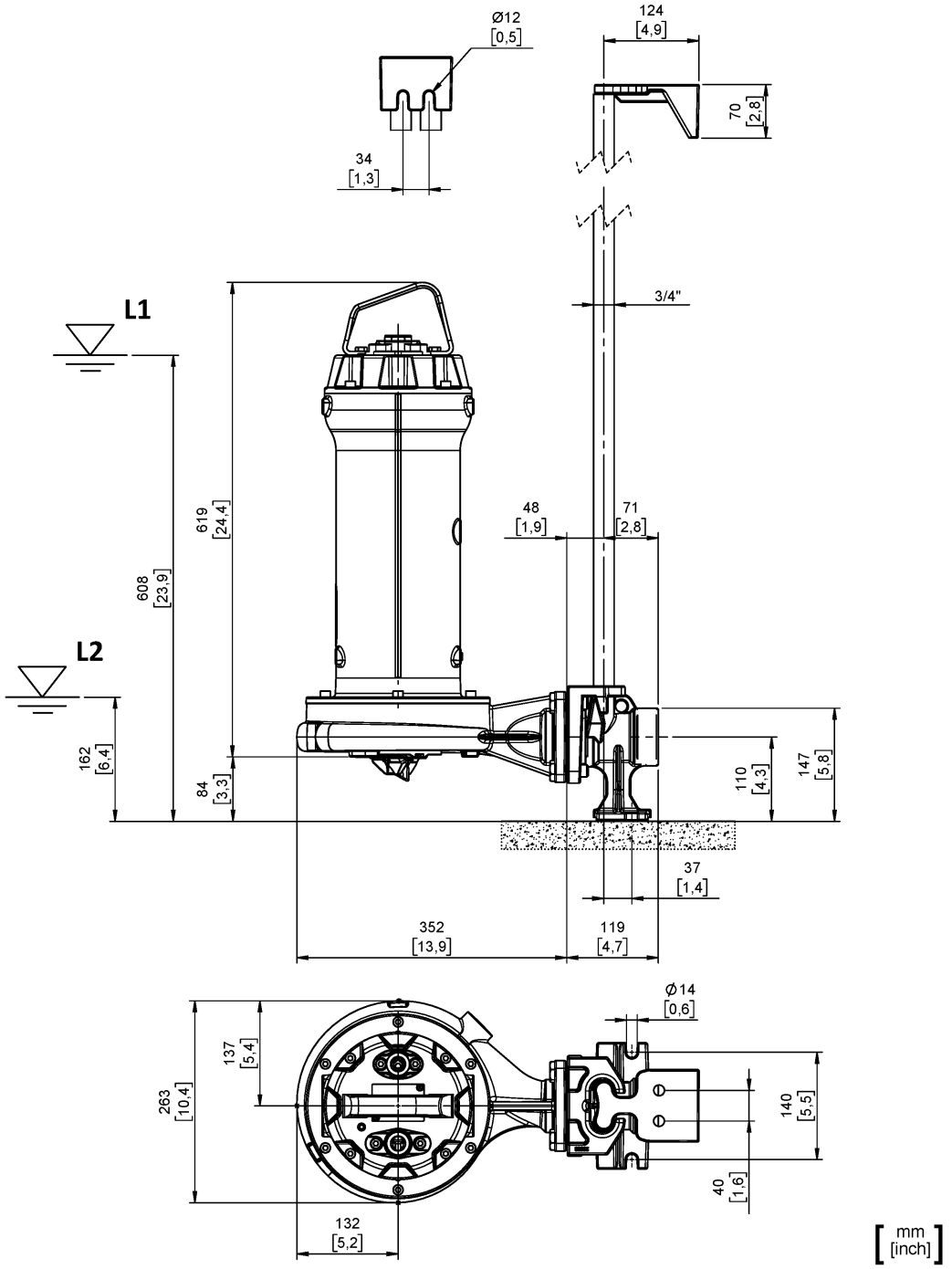


Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B

Dimensional drawing

3~ 50 Hz

Installation type Installation with bottom coupling device - Horizontal/vertical outlet		
Wet/dry use WET	**Drilling variant** N	**Flushing valve - drilling** -
Discharge DN 32 - G 2" EN 1092-2	**Suction:**	**Pressure rating (suction/discharge)** PN 6
Accessory DAC 32-50/G50H-G50V+KAF 3/4" EN (P)		**Accessory code** 9028.010
Note: Accessory must be ordered separately		

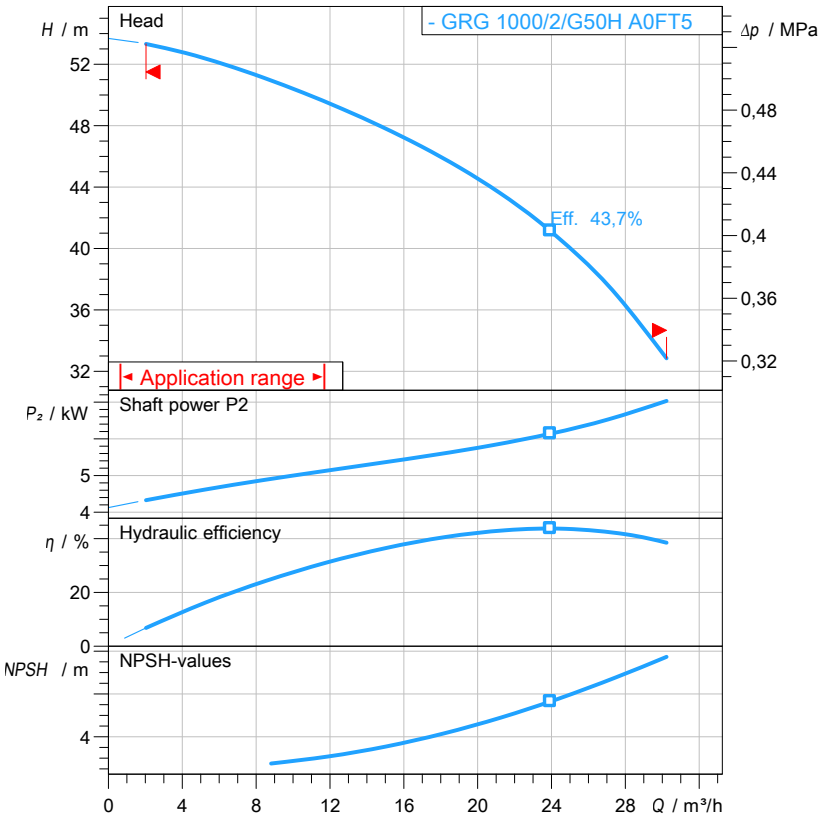


L1: Minimum operating level for continuous use

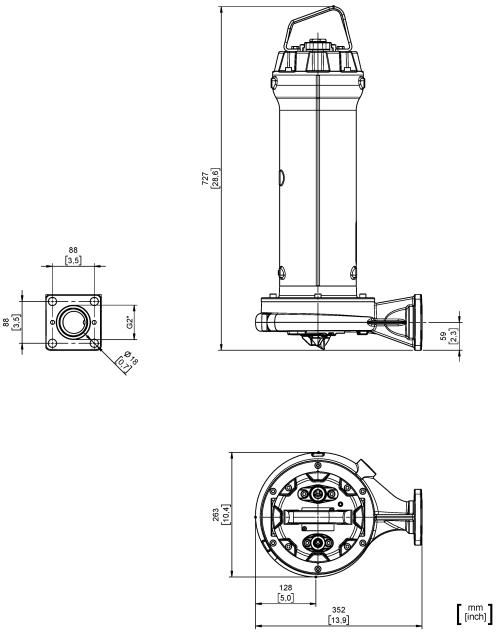
L2: Minimum operating level for discontinuous use (only "WET" version)

Technical specification

3~ 50 Hz



Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B



Pump

Series	GREY series
Pump name	GRG 1000/2/G50H A0FT5
Configuration	NGTSB51040N00NN
Standard	CE

Motor data

Rated voltage	400 V
Frequency	50 Hz
Motor phases	3~
Number of poles	2
Rated power P2	7,5 kW
Incoming power P1	8,51 kW
Rated current	13,7 A
rpm	2873 1/min
Efficiency	88,1 %
cos φ	0,894
Rated torque	24,9 Nm
Start	Direct starting
Degree of protection	IP 68
Insulation class	H

Hydraulic

Type	GR (Impeller with grinder system)
Free passage	0 mm
Impeller type	Open channel impeller with grinder system
Max. hydraulic efficiency	43,7 %
Suction	
Discharge	DN 32 - G 2" EN 1092-2
Curve tolerance	UNI EN ISO 9906:2012

Operating limits (standard pumps)

Max. ambient temperature	40 °C
Max. density treated liquid	1100 kg/m³
pH treated liquid	6 ÷ 14
Max. start per hour (equally distributed)	30
Wet/dry use	WET
Max. acoustic pressure level	70 dB
Operating mode	S1 - Continuous use

Construction materials

Case	Cast iron EN-GJL 250
Shaft	Stainless steel AISI 431
Hydraulic	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Painting/Coating	Bi-epoxy 200 µm sea water resistant
Screws	Stainless steel - Class A2-70
Gaskets	NBR
Cutter	Chromium steel - X102 CrMo17 KU
Cutting disk	Chromium steel - X102 CrMo17 KU

Construction features

Cooling system	No cooling jacket
Main cable	4G1,5 + 3x1
Cable length	10 mt
Mechanical seals	2 in silicon carbide (2SiC)
Additional drilling	-
Weight*	68,2 kg
Electrical variant	Thermal protection and leakage sensor

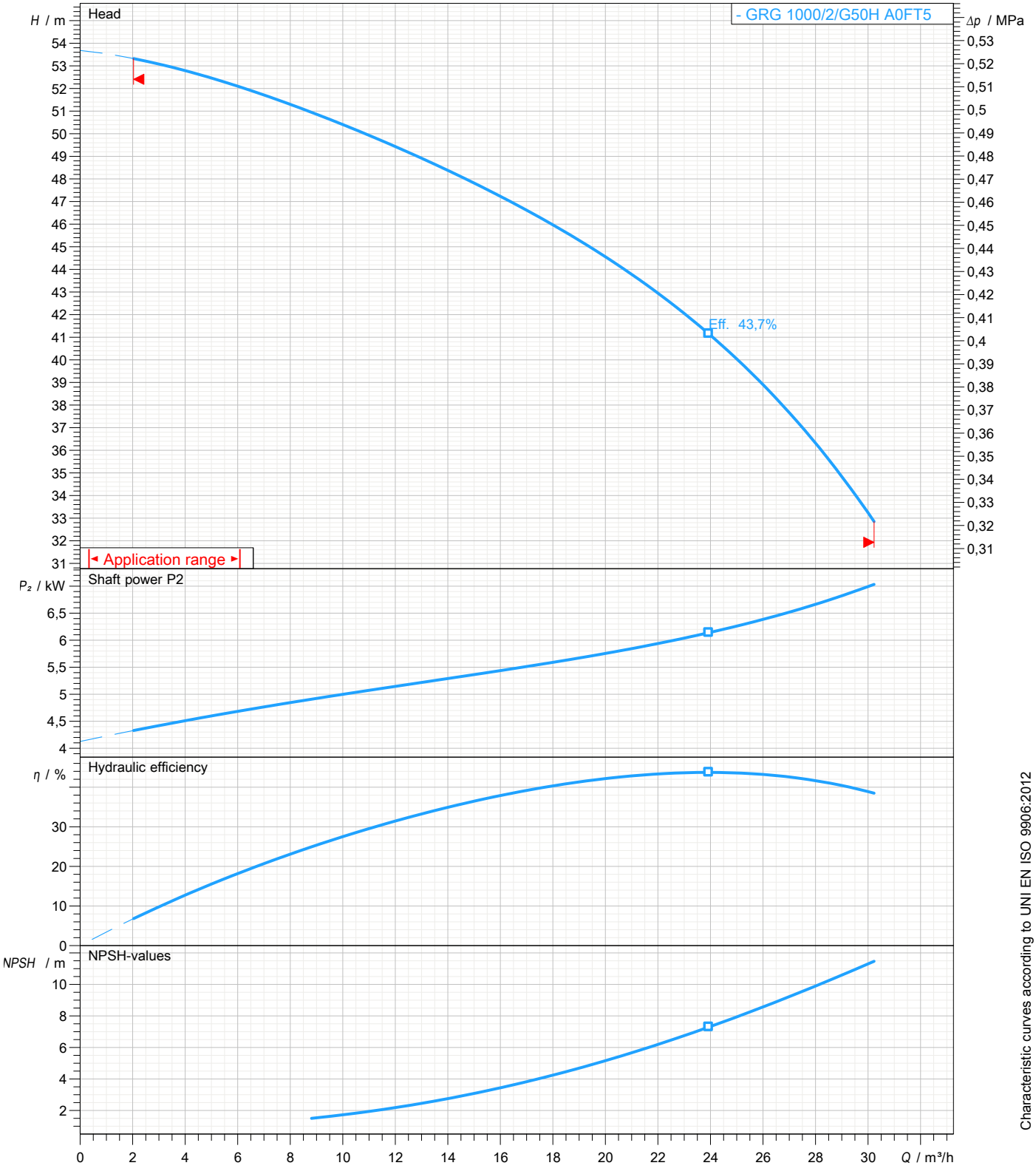
*** cable, stand and guiding system excluded**

Pump performance curves

3~ 50 Hz

Hydraulic type	Impeller type	Free passage	Discharge	Suction
GR (Impeller with grinder system)	Open channel impeller with grinder system	0 mm	DN 32 - G 2"	

DUTY POINT					
Flow	**Head**	**Shaft power P2**	**Hydraulic efficiency**	**Density** 998,3 kg/m³	**Viscosity** 1,005 mm²/s

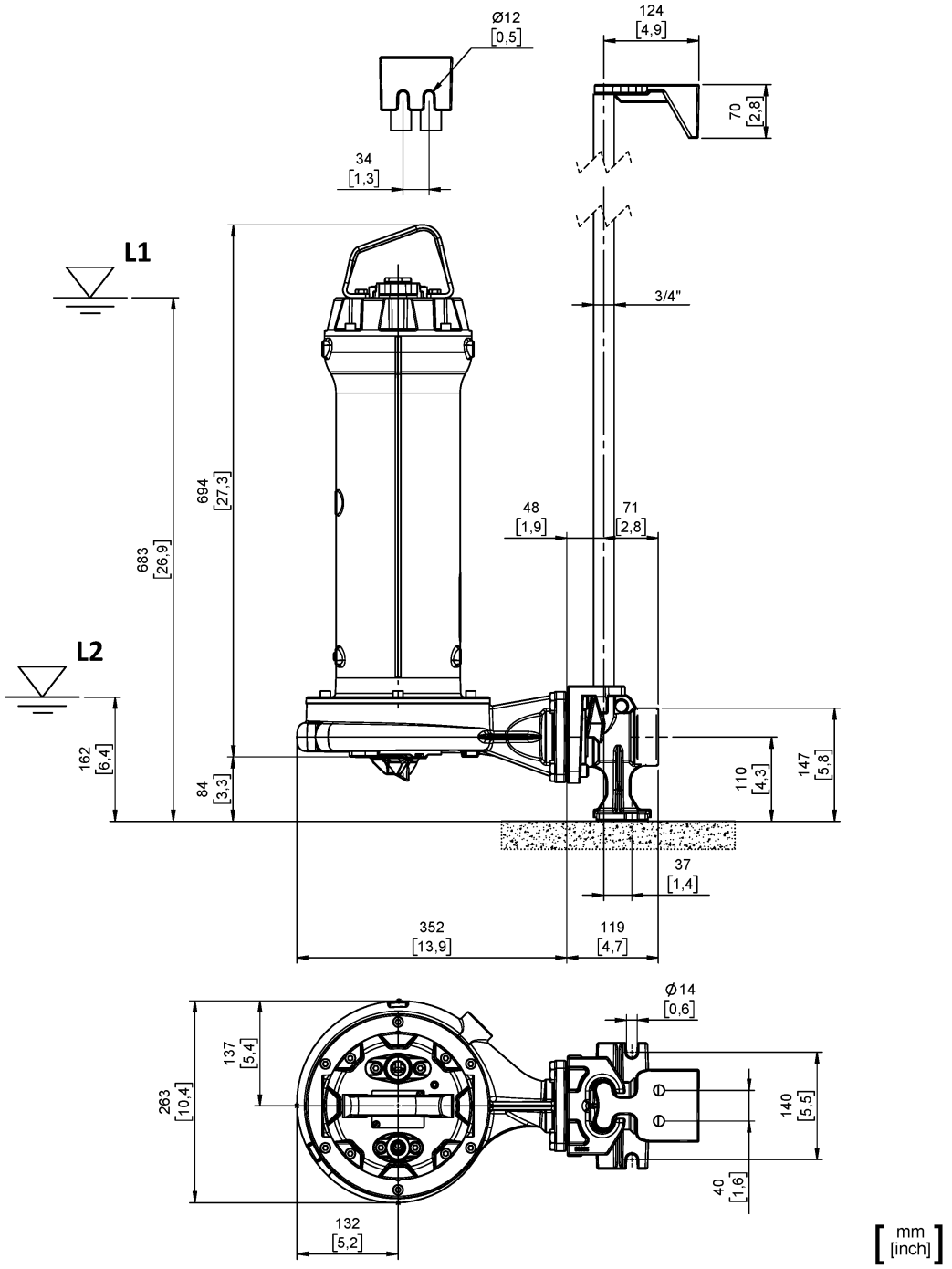


Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B

Dimensional drawing

3~ 50 Hz

Installation type Installation with bottom coupling device - Horizontal/vertical outlet		
Wet/dry use WET	**Drilling variant** N	**Flushing valve - drilling** -
Discharge DN 32 - G 2" EN 1092-2	**Suction:**	**Pressure rating (suction/discharge)** PN 6
Accessory DAC 32-50/G50H-G50V+KAF 3/4" EN (P)		**Accessory code** 9028.010
Note: Accessory must be ordered separately		



L1: Minimum operating level for continuous use

L2: Minimum operating level for discontinuous use (only "WET" version)