FLYGT

Technical specification

Submersible pump B 2400, 50 Hz

Flygt

ITT Industries

BIBO 2400

Product

Submersible pump for dewatering building yards, draining water in flooded areas, and other similar applications.

Denomination

Product code	2400.402
	2400.591
Installation	S
Impeller characteristics	MT, HT

Process data

Liquid temperature	max +40 °C
The pH of the pumped liquid	pH 6 - 11
Liquid density	max. 1100 kg/m^3
Strainer hole size	10 mm x 10 mm
Depth of immersion	max. 75 m

Motor data

Frequency	50 Hz
Insulation class	H (+180 °C)
Voltage variation	
- continuously running	max ± 5%
- intermittent running	max ± 10%
Voltage imbalance between phases	max 2%
No. of starts/hour	max 30

Cable

Direct-on-line start

SUBCAB®	4G35 mm^2
	4G50 mm^2
	4G70 mm^2

Y/D start

SUBCAB®	4G25+2x1,5 mm^2
	4G35+2x1,5 mm^2

Monitoring equipment

Thermal contacts opening temperature	125 °C

Material

Impeller	Alloyed white cast iron
Wear parts	Nitrile rubber
Stator housing	Cast iron
Pump housing	Cast iron
Strainer	Galvanized steel
Shaft	Stainless steel
O-rings	Nitrile rubber

Mechanical face seals

Alternative	Inner seal	Outer seal
1	Corrosion resistant cemented carbide/ Corrosion resistant cemented carbide	Corrosion resistant cemented carbide/ Corrosion resistant cemented carbide

Surface Treatment

Product code	Treatment
2400.402	Finishing coating of oxiran ester paint in orange colour.
2400.591	Finishing coating of oxiran ester paint in black colour.

Weight

See dimensional drawing.

Approvals

2400.591	EN 50014, EN 50018, EEX de I,EEX de IIB T4

Option

Pump housing	Stainless steel

Impeller

Alternative	Material
1	Spheroidal graphite iron [1)]
2	Stainless steel

1) Only HT

Stand

Other cables

Zinc anodes

Accessories

Adapters, hose connections and other mechanical accessories.

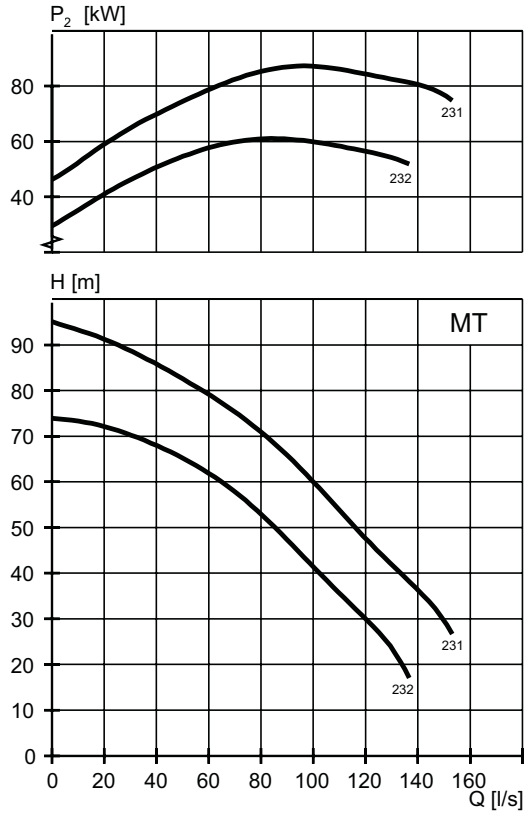
Electrical accessories such as pump controller, control panels, starters, monitoring relays, cables.

See separate booklet or www.flygt.com, for further information.

MT-Motor rating and performance curve

Curve/Impeller No	Rated Power, kW	Rated current, A	Starting current, A	Power factor cos φ	Ex proof version available
400 V, 50 Hz, 3 ~, 2965 r/min					
231	90	149	1255	0,92	•
232	90	149	1255	0,92	•

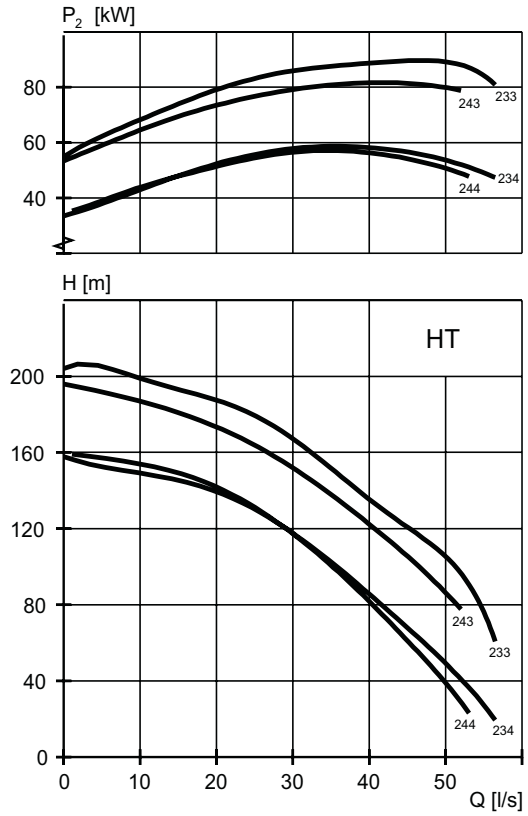
Y/D starting current is approximately 1/3 of D starting current.



HT-Motor rating and performance curve

Curve/Impeller No	Rated Power, kW	Rated current, A	Starting current, A	Power factor cos φ	Ex proof version available
400 V, 50 Hz, 3 ~, 2965 r/min					
233	90	149	1255	0,92	
234	90	149	1255	0,92	
243	90	149	1255	0,92	•
244	90	149	1255	0,92	•

Y/D starting current is approximately 1/3 of D starting current.

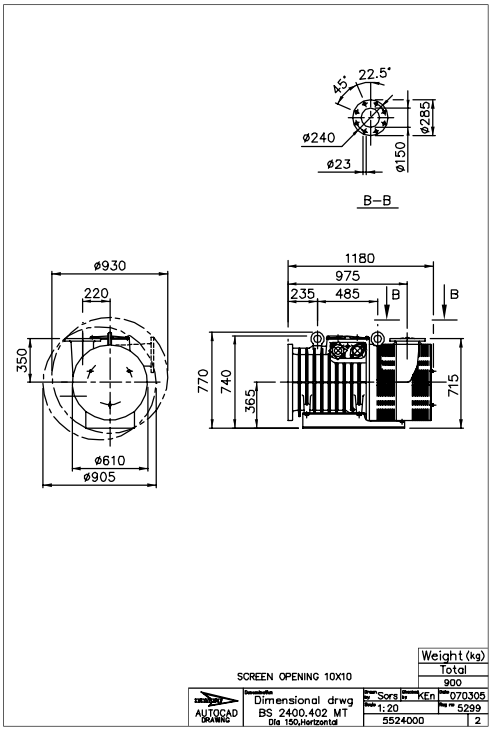


Dimensional drawing

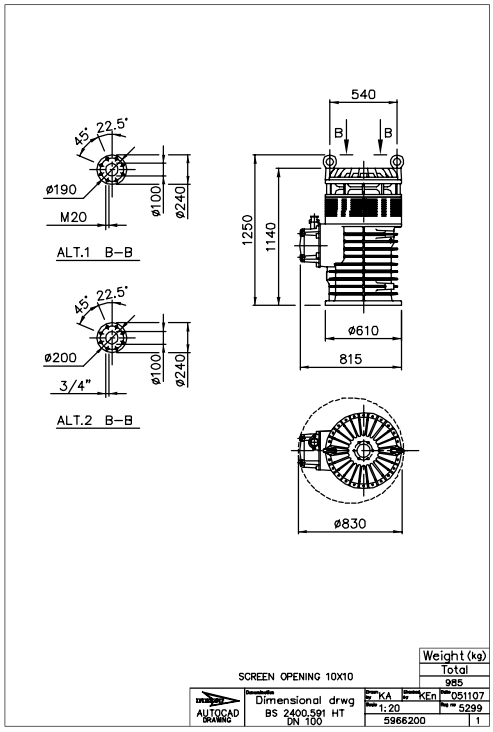
All drawings are available as Acrobat documents (.pdf) and AutoCad drawings (.dwg). Download the drawings from www.flygt.com or contact your ITT Flygt representative for more information.

All dimensions are in mm.

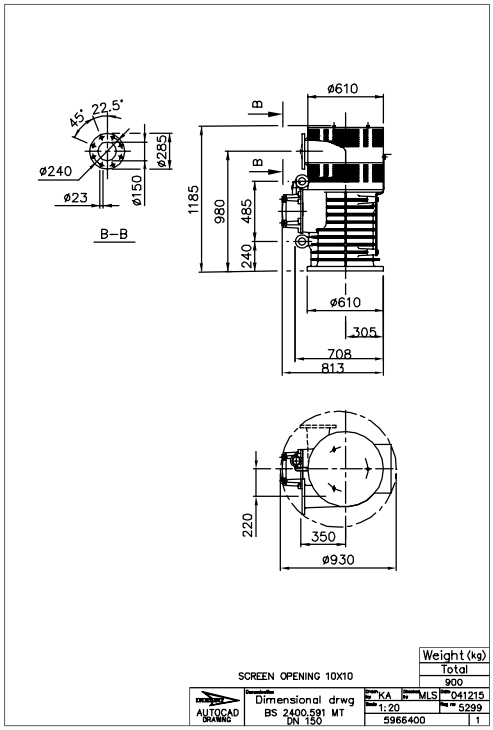
MT, S-installation



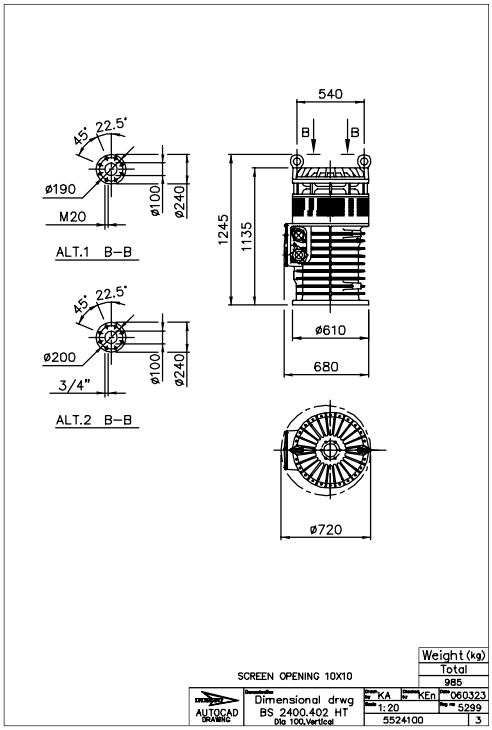
MT, S-installation



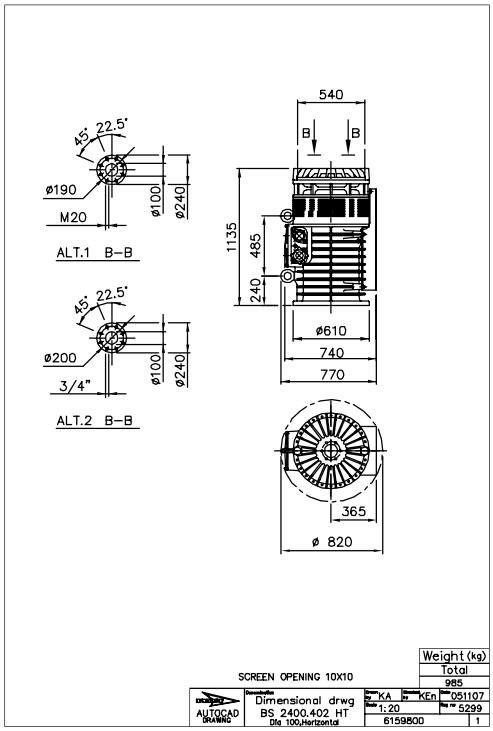
MT, S-installation



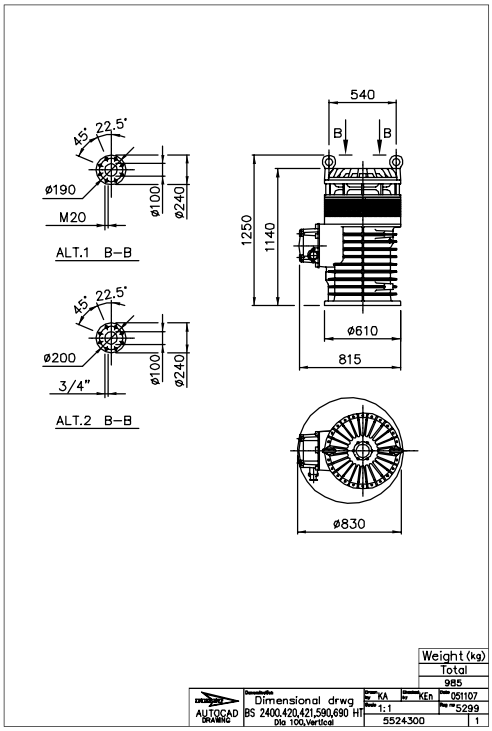
HT, S-installation



HT, S-installation



HT, S-installation



www.flygt.com