



Technical Specification

Submersible Pump N 3153, 50 Hz



Flygt





N 3153

Product

Submersible pump for pumping clean water, surface water and waste water containing solids or long-fibred material.

Denomination

Product code	3153.180
Installation	P, S, T, Z
Impeller characteristics	LT, MT, HT, SH

Process data

Liquid temperature	max +40 °C
Depth of immersion	max 20 m
The pH of the pumped liquid	pH 5,5-14
Liquid density	max. 1100 kg/m ³

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 15

Cable

Direct-on-line start

SUBCAB®	4G2,5+2x1,5 mm ²
	4G4+2x1,5 mm ²
	4G6+2x1,5 mm ²
	4G10+2x1,5 mm ²

Y/D start

SUBCAB®	7G2,5+2x1,5 mm ²
	7G4+2x1,5 mm ²
	7G6+2x1,5 mm ²

Monitoring equipment

Thermal contacts opening temp.	140 °C
Leakage sensor in inspection chamber	FLS

Material

Impeller	Cast iron
Pump housing	Cast iron
Stator housing	Cast iron
Shaft	Stainless steel

O-rings

Alternative	Material
1	Nitrile rubber
2	Fluorinated rubber

Mechanical face seals

Alternative	Inner seal	Outer seal
1	Corrosion resistant tungsten carbide/ Corrosion resistant tungsten carbide	Corrosion resistant tungsten carbide/ Corrosion resistant tungsten carbide
2	Aluminium oxide/ Corrosion resistant tungsten carbide	Silicon carbide/ Silicon carbide

Surface Treatment

All cast parts are primed with a water-borne primer. The finishing coat is a high-solid two pack paint.

Weight

See dimensional drawing.

Option

3153.090	Ex. proof design
Warm liquid version on request	
Surface treatment	Epoxy treatment
Other cables	
Zinc anodes	
"Mini-CAS II"	

Accessories

Discharge connections, adapters, hose connections and other mechanical accessories.

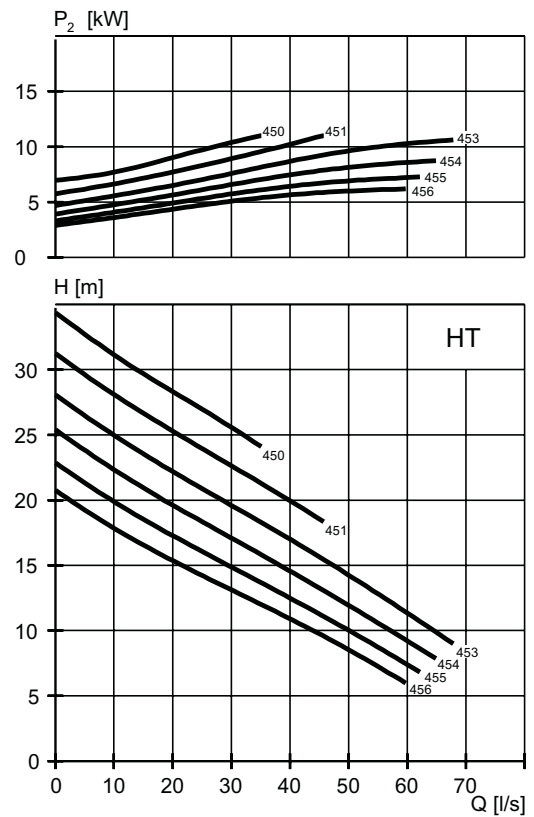
Electrical accessories such as pump controller, control panels, starters, monitoring relays, cables.

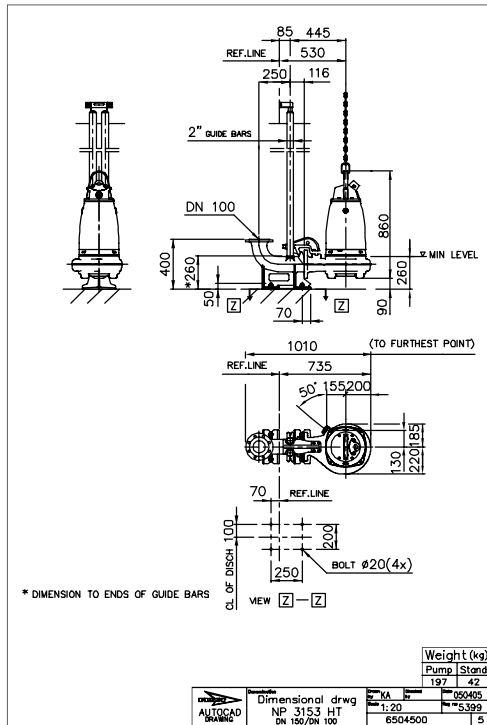
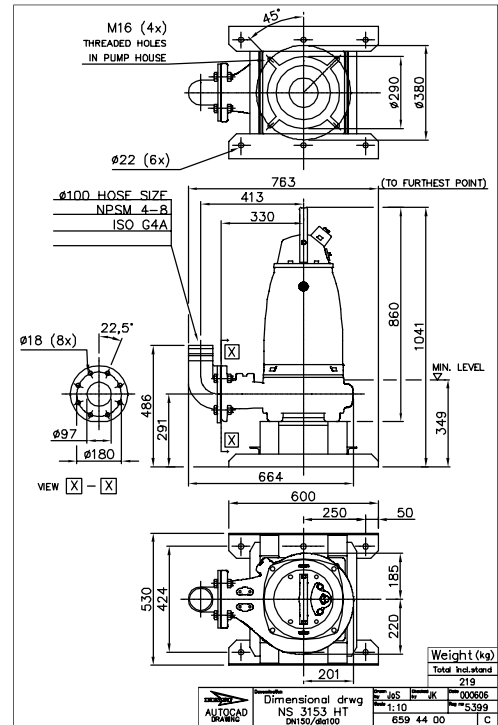
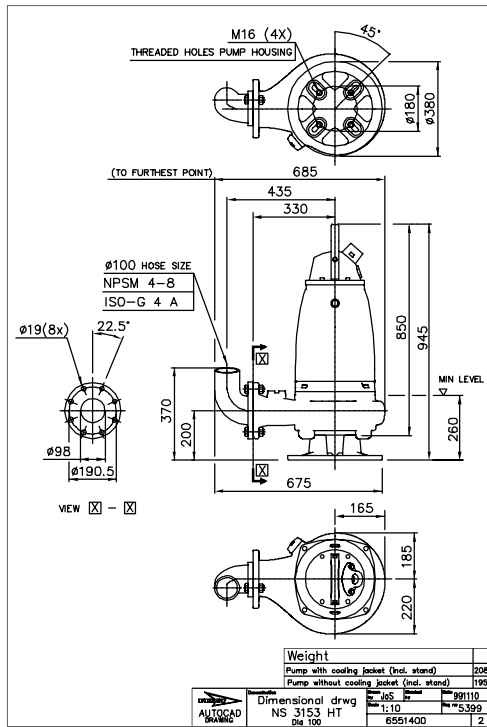
See separate booklet or www.flygt.com, for further information.

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	Installation			
						P	S	T	Z
400 V, 50 Hz, 3 ~, 1460 r/min									
451	7,5	16	91	0,79	•	•	•	•	•
453	7,5	16	91	0,79	•	•	•	•	•
454	7,5	16	91	0,79	•	•	•	•	•
455	7,5	16	91	0,79	•	•	•	•	•
456	7,5	16	91	0,79	•	•	•	•	•
400 V, 50 Hz, 3 ~, 1460 r/min									
453	9,0	19	107	0,80	•	•	•	•	•
454	9,0	19	107	0,80	•	•	•	•	•
455	9,0	19	107	0,80	•	•	•	•	•
456	9,0	19	107	0,80	•	•	•	•	•
400 V, 50 Hz, 3 ~, 1465 r/min									
450	11,0	24	146	0,77	•	•	•	•	•
451	11,0	24	146	0,77	•	•	•	•	•
453	11,0	24	146	0,77	•	•	•	•	•
454	11,0	24	146	0,77	•	•	•	•	•
455	11,0	24	146	0,77	•	•	•	•	•
456	11,0	24	146	0,77	•	•	•	•	•

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



HT, P-installation

HT, S-installation

HT, S-installation

HT, T-installation
