



# Flygt D 8058, 50 Hz

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# Technical Specification

## Product description

### Usage

A submersible pump for corrosive wastewater containing solids or fibered material.

### Denomination

Type	Non-explosion proof version	Explosion proof version	Pressure class	Installation types
Stainless steel	8058.280		<ul style="list-style-type: none"> <li>• LT – Low head</li> <li>• HT – High head</li> </ul>	P, S

The pump can be used in the following installations:

- P Semi permanent, wet well arrangement with pump installed on two guide bars with automatic connection to discharge.
- S Portable semi permanent, wet well arrangement with hose coupling or flange for connection to discharge pipeline.

### Application limits

Feature	Description
Liquid temperature	Maximum 40°C (104°F)
Depth of immersion	Maximum 20 m (65 ft)
pH of the pumped liquid	2 - 14
Liquid density	Maximum 1100 kg/m <sup>3</sup>

### Motor data

Feature	Description
Motor type	Squirrel-cage induction motor
Frequency	50 Hz
Power supply	3-phase
Starting method	<ul style="list-style-type: none"> <li>• Direct on-line</li> <li>• Star-delta</li> </ul>
Number of starts per hour	Maximum 30
Code compliance	IEC 60034-1
Voltage variation	<ul style="list-style-type: none"> <li>• Continuously running: Maximum ±5%</li> <li>• Intermittent running: Maximum ±10%</li> </ul>
Voltage imbalance between phases	Maximum 2%
Stator insulation class	H (180°C, 356°F)

Cables

Application	Type
Direct-on-line start	<p>Flygt SUBCAB® - a heavy duty 4 cores motor power cable with two twisted pair screened control cores. Conductor insulation rating of 90°C, which allows for increased current. Superior mechanical strength and high abrasion and tear resistant. Chemical resistant within pH 3-10 and ozone, oil, and flame resistant. Used up to 70°C water temperature. Cables &lt; 10 mm<sup>2</sup> with unscreened control cores.</p> <p>Flygt SUBCAB® - a heavy duty 7 cores motor power cable with two twisted pair screened control cores. Conductor insulation rating of 90°C, which allows for increased current. Superior mechanical strength and high abrasion and tear resistant. Chemical resistant within pH 3-10 and ozone, oil, and flame resistant. Used up to 70°C water temperature. Cables &lt; 7G6 mm<sup>2</sup> with unscreened control cores.</p> <p>Flygt HCR (Heat and Chemical Resistant) cable - a heavy duty 7 cores motor power cable. Conductor insulation rating of 150°C, which allows for increased current. Made of FEP and ETFE and resistant to chemicals and solvents, high temperature, and mechanical stress. Used up to 90°C water temperature and where high chemical resistance is required.</p>
Y/D start	<p>Flygt SUBCAB® - a heavy duty 4 cores motor power cable with two twisted pair screened control cores. Conductor insulation rating of 90°C, which allows for increased current. Superior mechanical strength and high abrasion and tear resistant. Chemical resistant within pH 3-10 and ozone, oil, and flame resistant. Used up to 70°C water temperature. Cables &lt; 10 mm<sup>2</sup> with unscreened control cores.</p> <p>Flygt SUBCAB® - a heavy duty 7 cores motor power cable with two twisted pair screened control cores. Conductor insulation rating of 90°C, which allows for increased current. Superior mechanical strength and high abrasion and tear resistant. Chemical resistant within pH 3-10 and ozone, oil, and flame resistant. Used up to 70°C water temperature. Cables &lt; 7G6 mm<sup>2</sup> with unscreened control cores.</p> <p>Flygt HCR (Heat and Chemical Resistant) cable - a heavy duty 7 cores motor power cable. Conductor insulation rating of 150°C, which allows for increased current. Made of FEP and ETFE and resistant to chemicals and solvents, high temperature, and mechanical stress. Used up to 90°C water temperature and where high chemical resistance is required.</p>

Monitoring equipment

Thermal contacts opening temperature 125° C (257° F)

Materials

Table 1: Major parts except mechanical seals

Denomination	Material	ASTM	EN
Major castings	Stainless steel	ASTM A 743 CF-8M	1.4408,1.4412,1.4581
Pump housing	Stainless steel	ASTM A 743 CF-8M	1.4408,1.4412,1.4581

Denomination	Material	ASTM	EN
Impeller	Stainless steel	ASTM A 743 CF-8M	1.4408,1.4412,1.4581
Lifting handle/schackle	Stainless steel	ASTM/AISI 316L	1.4404,1.4432, ...
Shaft	Stainless steel	ASTM/AISI 316L	1.4404,1.4432, ...
Screws and nuts	Stainless steel, A4	AISI 316L, 316, 316Ti, etc	1.4401,1.4404, ...
O-rings	Fluorinated rubber (FPM) 70 IRHD	-	-
Oil, part no 901752	Medical white oil of paraffin type. Fulfills FDA 172.878 (a)	-	-

Table 2: Mechanical seals

Inner seal	Outer seal
Carbon/ Aluminum oxide	Silicon carbide/ Silicon carbide

**Surface treatment**

None.

**Options**

- Other cables
- Flexible protective sheeting for the cables
- Zinc anodes, Surface treatment (Epoxy)
- Leakage sensor in the stator housing (FLS)
- Water detector in motor and oil housing

**Accessories**

- Discharge connections, adapters, hose connections, and other mechanical accessories.
- Electrical accessories such as pump controller, control panels, starters, monitoring relays, cables.

# Motor Rating and Performance Curves

## LT

Star-delta starting current is 1/3 of Direct on-line starting current.

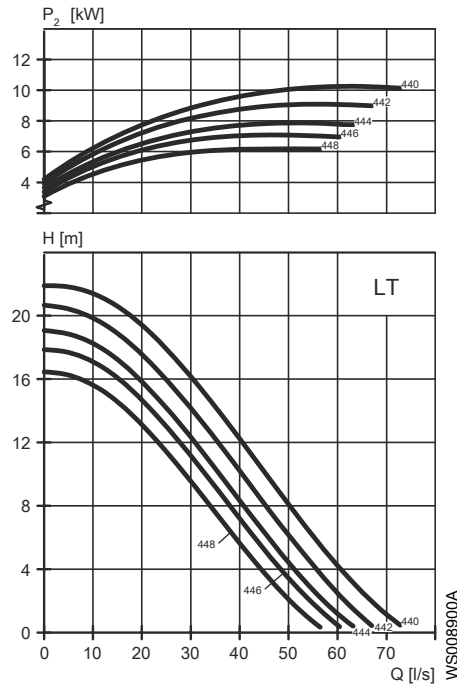


Table 3: 400 V, 50 Hz, 3-phase

Rated power, kW	Rated power, hp	Curve/ Impeller No	Revolutions per minute, rpm	Rated current, A	Starting current, A	Power factor, cos φ	Installation
13	17.4	440	1415	25	138	0.88	P,S
10.5	14.1	440	1425	21	124	0.84	P,S
10.5	14.1	442	1425	21	124	0.84	P,S
10.5	14.1	444	1425	21	124	0.84	P,S
10.5	14.1	446	1425	21	124	0.84	P,S
10.5	14.1	448	1425	21	124	0.84	P,S

# HT

Star-delta starting current is 1/3 of Direct on-line starting current.

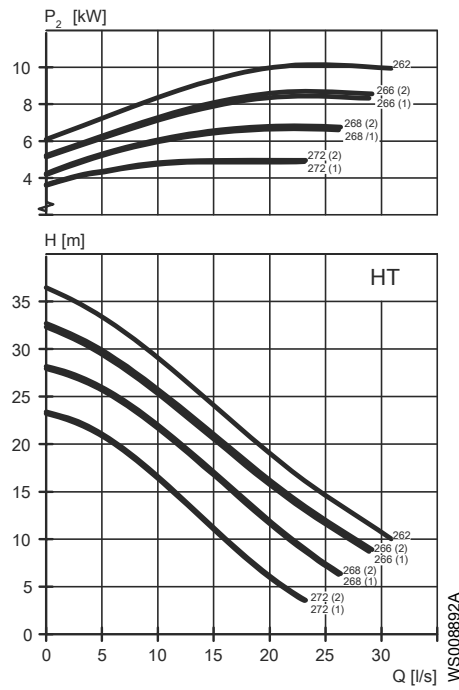


Table 4: 400 V, 50 Hz, 3-phase

Rated power, kW	Rated power, hp	Curve/ Impeller No	Revolutions per minute, rpm	Rated current, A	Starting current, A	Power factor, cos φ	Installation
13	17.4	262	2890	24	159	0.90	P,S
13	17.4	266 (2)	2890	24	159	0.90	P,S
13	17.4	268 (2)	2890	24	159	0.90	P,S
13	17.4	272 (2)	2890	24	159	0.90	P,S
9.0	12.1	266 (1)	2895	17	124	0.87	P,S
9.0	12.1	268 (1)	2895	17	124	0.87	P,S
9.0	12.1	272 (1)	2895	17	124	0.87	P,S

# Dimensions and Weight

LT

All drawings are available as Acrobat documents (.pdf) and AutoCad drawings (.dwg).  
Contact your local sales and service representative for more information.

All dimensions are in mm.

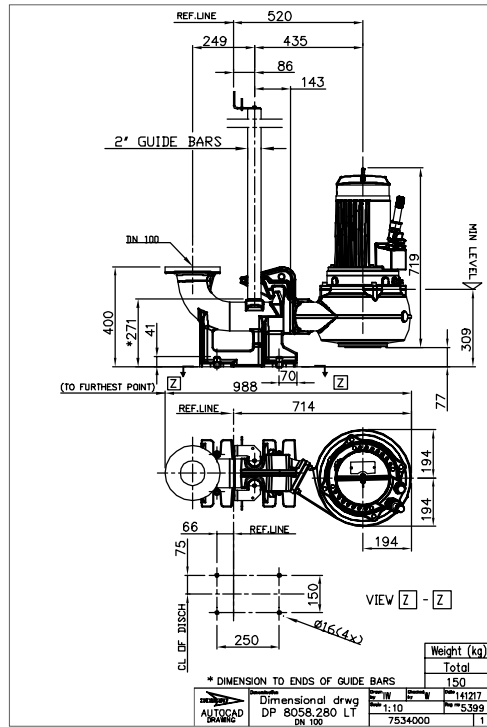


Figure 1: LT, P-installation



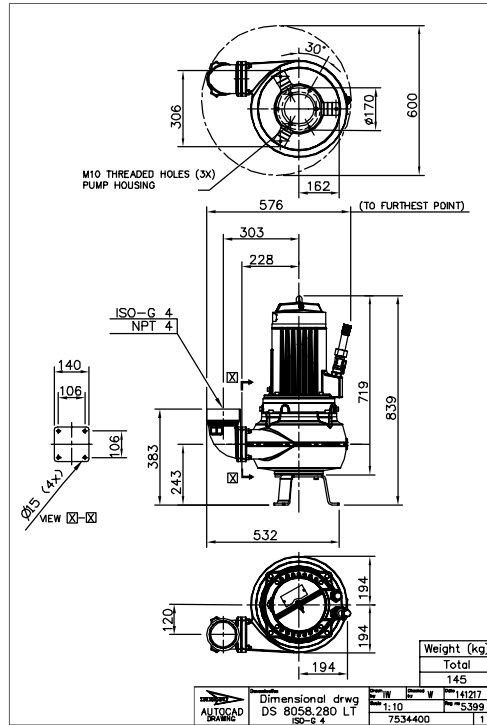


Figure 2: LT, S-installation

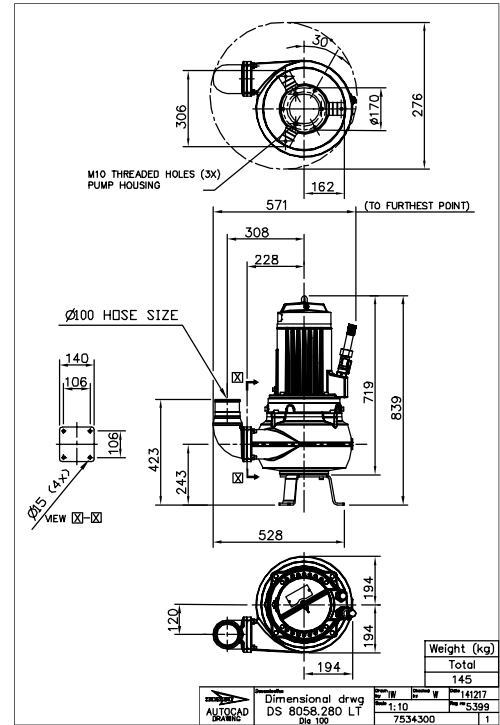


Figure 3: LT, S-installation

## HT

All drawings are available as Acrobat documents (.pdf) and AutoCad drawings (.dwg). Contact your local sales and service representative for more information. All dimensions are in mm.

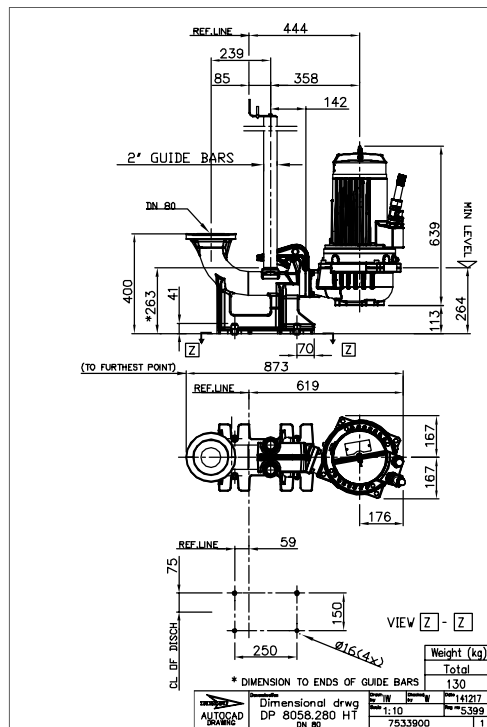


Figure 4: HT, P-installation

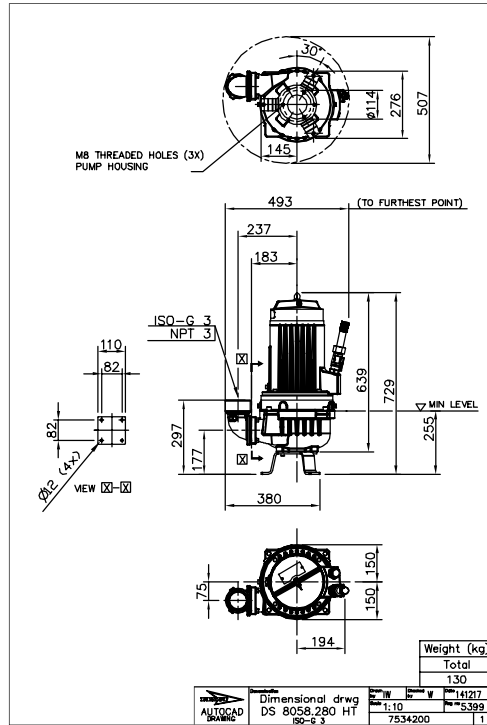


Figure 5: HT, S-installation

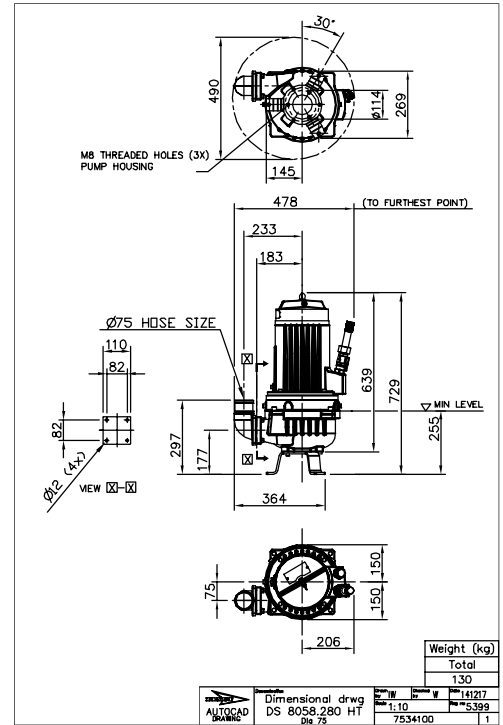


Figure 6: HT, S-installation



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