



# P 7081

## Product

Axial-flow pump for transportation of large volumes of water, containing minimum debris and fibres, at low heads.

## Denomination

Product code	7081/705
Product code	7081/735
Product code	7081/765
Installation	L

## Process data

Liquid temperature	max +40 °C
Depth of immersion	max 20 m
The pH of the pumped liquid	pH 6 - 11
Liquid density	max. 1100 kg/m <sup>3</sup>
Pump (ball-) throughlet	77 mm (blade angle 8°)
Pump (ball-) throughlet	135 mm (blade angle 22°)

## 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

SUBCAB®

To be dimensioned by ITT FLYgt

## Monitoring equipment

Thermal contacts opening temperature	140 °C
Leakage sensor in stator housing	Ball float switch
Leakage sensor in junction box	FLS
Analogue temperature sensor in main bearing	Pt100

## Material

Pump housing	Cast iron
Stator housing	Cast iron
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

## Impeller

Alternative	Material
1	Aluminium bronze
2	Stainless steel

## Shaft

Alternative	Material
1	Steel
2	Stainless steel

## 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

7081/715	Ex. proof version
7081/745	Ex. proof version
7081/775	Ex. proof version
Leakage sensor in oil housing	CLS
Analogue temperature sensor in stator windings	Pt100
Analogue temperature sensor in support bearing	Pt100
Other cables	
Surface treatment	Epoxy treatment
Zinc anodes	

## Accessories

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

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

See separate booklet or [www.flygt.com](http://www.flygt.com), for further information.

### Motor rating and performance curve

Curve/Impeller No	Drive unit	Rated power, kW	Rated current, A	Starting current, A	Power factor cos $\phi$	Ex proof version available
<b>400 V, 50 Hz, 3 ~, 735 r/min</b>						
735	705	55	107	505	0,82	•
735	705	90	182	775	0,79	•
735	705	100	227	920	0,72	•
735	735	140	275	1070	0,81	•
<b>400 V, 50 Hz, 3 ~, 985 r/min</b>						
990	735	160	300	1545	0,82	•
990	765	200	390	1215	0,79	•

