



Technical specification

Submersible pump B 3080, 50 Hz



Flygt



ITT Industries



BIBO 3080

Product

The pump is intended to be used for pumping of water which may contain abrasive particles or pumping sludge. The 3080.690 version is designed for use in e.g. coal mines where there is risk of gas formation. The 3080.590 version is designed for use in industrial environment where there is risk of gas formation.

Denomination

Product code	3080.211 3080.311 3080.590 3080.690
Installation	S
Impeller characteristics	MT, HT, ST

Process data

Liquid temperature	max +40 °C
Depth of immersion	max 20 m
Liquid density	max 1100 kg/m ³
Strainer hole size	40 mm x 40 mm

The pH of the pumped liquid

Product code	pH
3080.211	6-13
3080.311	6-11
3080.590	6-11
3080.690	6-11

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 SUBCAB®	4G2,5 mm ² 4G2,5+2x1,5 mm ²
Y/D start SUBCAB®	7G2,5 mm ² 7G2,5+2x1,5 mm ²

Monitoring equipment

Thermal contacts opening temperature

Impeller characteristic	Temperature
MT	110 °C
HT	110 °C
ST	115 °C

Material

Shaft	Stainless steel
O-rings	Nitrile rubber
Wear parts lining	Nitrile rubber

Stator housing

Product code	Material
3080.211	Hydronolium
3080.311	Cast iron
3080.590	Cast iron
3080.690	Cast iron

Impeller

Product code	Material
3080.211	Steel spring
3080.311	Steel spring
3080.590	Ni hard nickel-chromium alloyed white iron
3080.690	Ni hard nickel-chromium alloyed white iron

Strainer

Product code	Material
3080.211	Stainless steel
3080.311	Stainless steel
3080.590	Galvanized steel
3080.690	Galvanized steel

Mechanical face seals

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

Surface Treatment

Product code	Treatment
3080.211	One layer of aluminium enamel.
3080.311	All cast parts are coated with a primer. The finish coat is a synthetic varnish.
3080.590	All cast parts are coated with a primer. The finish coat is a synthetic varnish.
3080.690	All cast parts are coated with a primer. The finish coat is a synthetic varnish.

Weight

See dimensional drawing.

Approvals

3080.590	EN 50014, EN 50018, EEX de IIB T3
3080.690	EN 50014, EN 50018, EEX de I

Option

Other cables
Zinc anodes
Tandem connection

Accessories

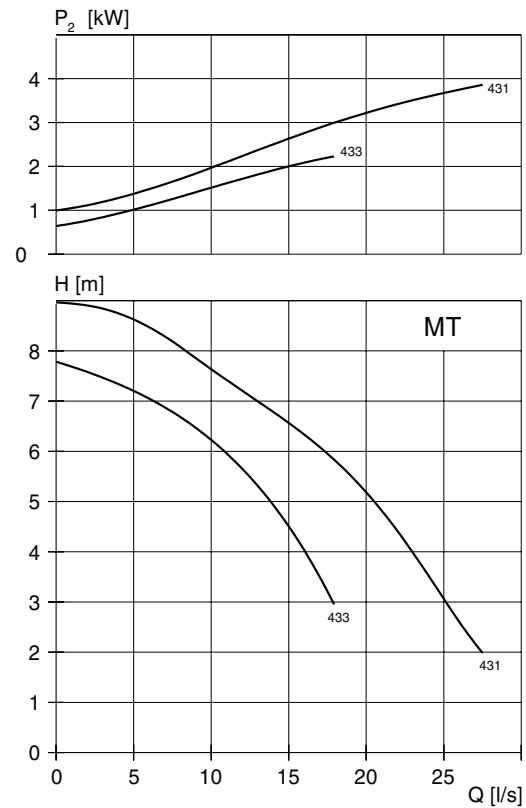
Discharge connections, adapters, hose connections and other mechanical accessories.

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

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

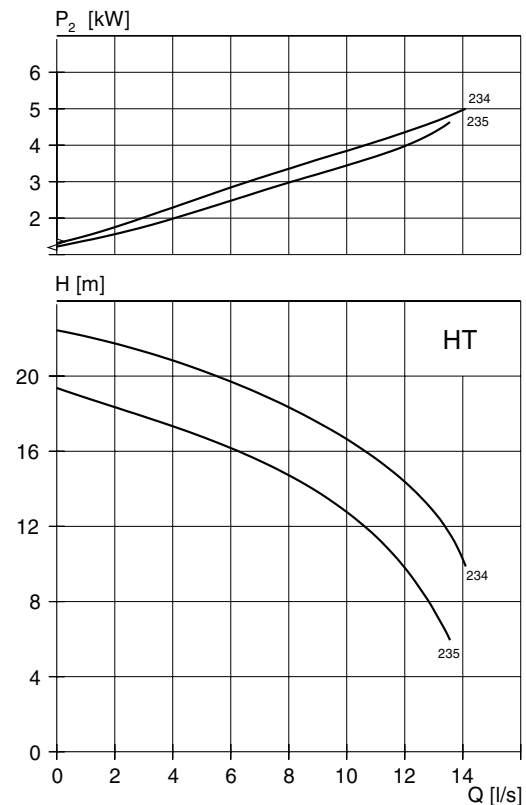
MT-Motor rating and performance curve

Curve/Impeller No	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$	Ex proof version available
400 V, 50 Hz, 3 ~, 1385 r/min					
431	4,0	9,1	41	0,79	•
433	4,0	9,1	41	0,79	•



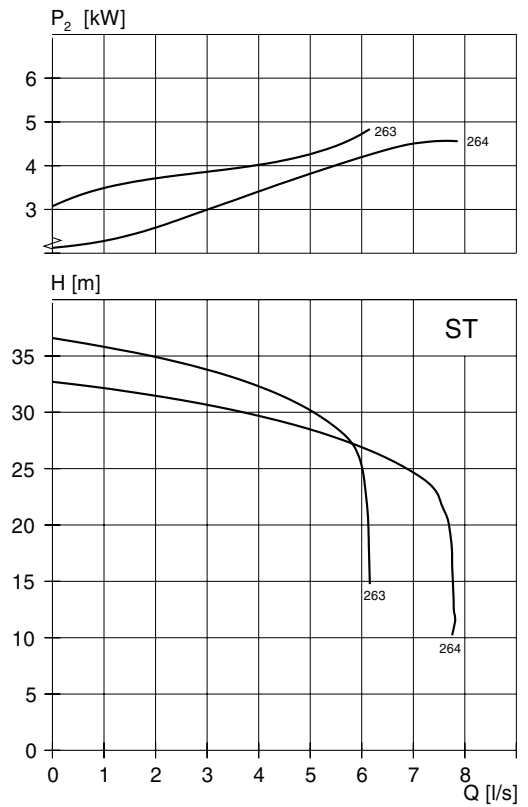
HT-Motor rating and performance curve

Curve/Impeller No	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$	Ex proof version available
400 V, 50 Hz, 3 ~, 2820 r/min					
234	5,5	11	66	0,90	•
235	5,5	11	66	0,90	•



ST-Motor rating and performance curve

Curve/Impeller No	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \phi$	Ex proof version available
400 V, 50 Hz, 3 ~, 2820 r/min					
263	5,5	11	66	0,90	•
264	5,5	11	66	0,90	•



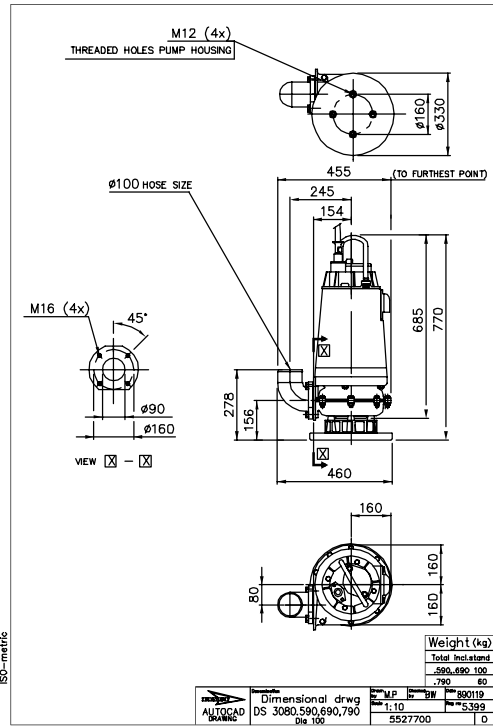
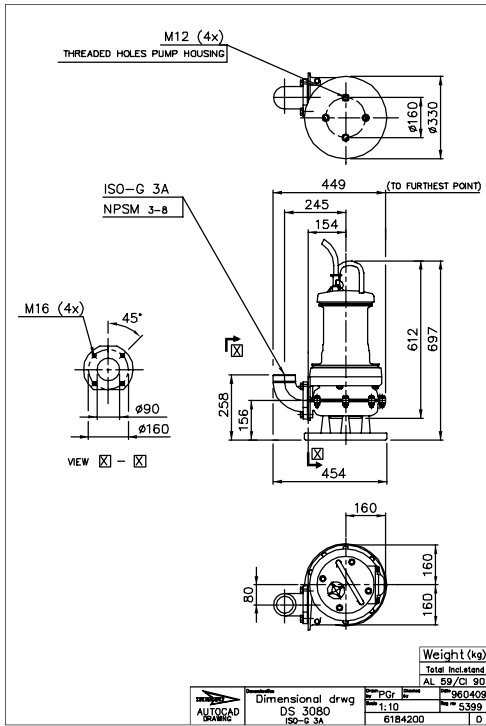
Dimensional drawing

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.

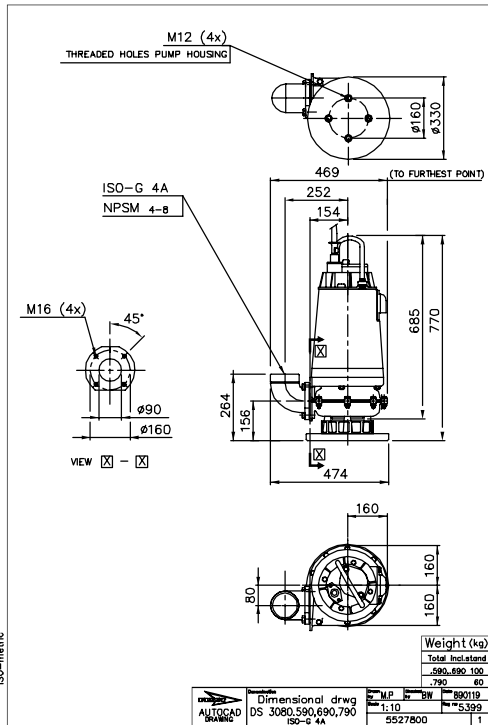
All dimensions are in mm.

MT/HT/ST, S-installation

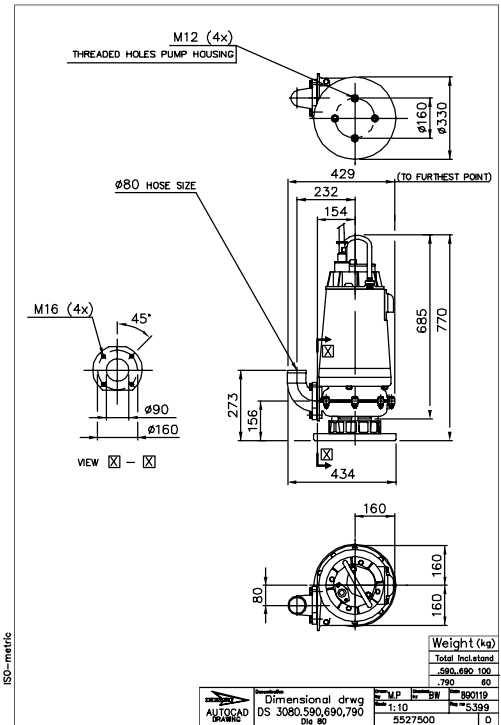
MT/HT/ST, S-installation



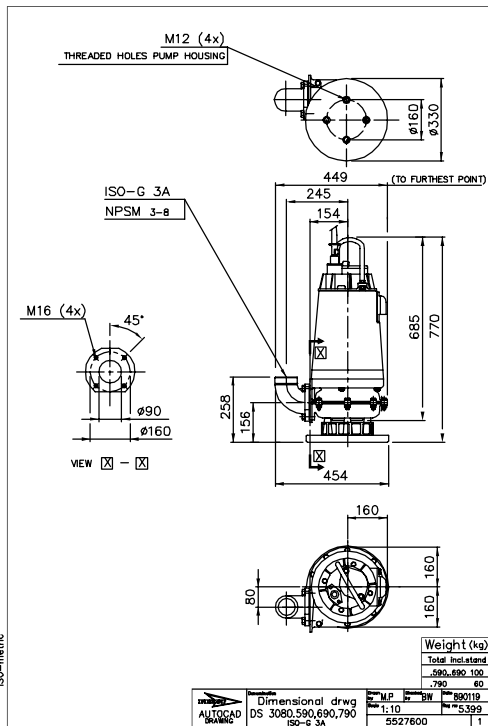
MT/HT/ST, S-installation



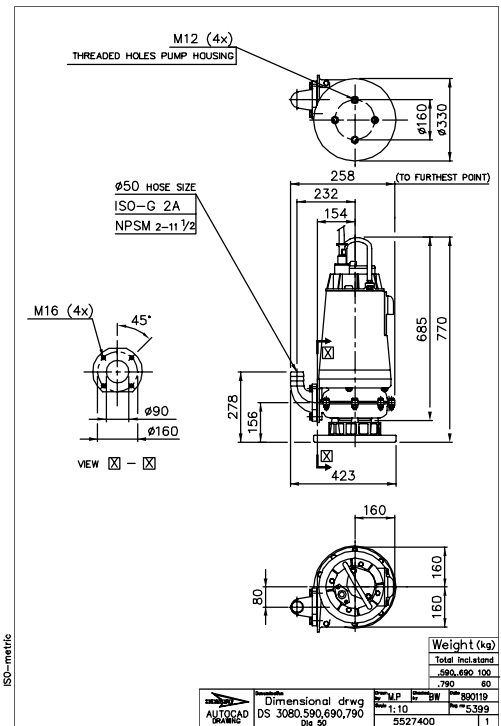
MT/HT/ST, S-installation



MT/HT/ST, S-installation



MT/HT/ST, S-installation





www.flygt.com