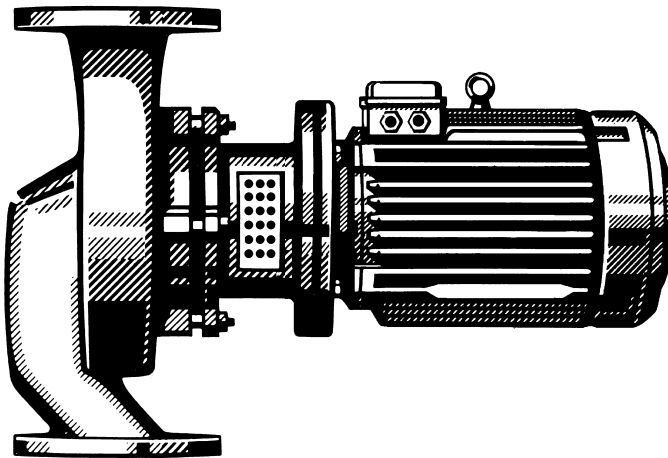


In-line Pumps



Automation products available:

- Hyamaster
- hyatronic

Fields of Application

- Heating systems
- Air-conditioning systems
- Cooling circuits
- Service water supply systems
- Water supply systems
- Industrial recirculation systems

Medium Handled

Liquids not chemically or mechanically aggressive to the pump materials (see list of media pumped on page 5).

Operating Data

Q up to 550 m³/h, 153 l/s
H up to 90 m
t -30 °C to +140 °C
p_d up to 16 bar ¹⁾

¹⁾ The sum of inlet pressure and shutoff head must not exceed the value indicated.

Designation

Etaline G N 65 - 160 / 40 2 . 2

Type series _____
Material combination _____
N = with stub shaft and standardised motor
Pump size _____
Nom. dia. suction/discharge nozzle _____
Approx. impeller diameter _____
Motor rating in kW x 10 (example: 4.0 kW) _____
Number of poles _____
Code for turned-down impeller _____

Design

Close-coupled in-line pump, with standardised motor. The pump shaft is rigidly connected to the motor shaft.
2 Etaline pumps connected by two Y-pipes constitute a duplex pump.

Shaft Seal

Uncooled mechanical seal, for ex. silicon carbide/silicon carbide, special elastomers or EP rubber.
Other variants as indicated in the list of media pumped.

Materials

	Etaline GN	Etaline MN
Volute casing	Cast iron EN-GJL- 250 ²⁾	Cast iron EN-GJL-250 ²⁾
Discharge cover	Cast iron EN-GJL- 250 ²⁾	Cast iron EN-GJL-250 ²⁾
Impeller	Cast iron EN-GJL- 250 ²⁾	Tin bronze
Casing wear rings	Cast iron EN-GJL ²⁾	Bronze
Shaft	Tempered steel C 45	Tempered steel C 45
Shaft sleeve	Chrome nickel molybdenum steel 1.4571	Chrome nickel molybdenum steel 1.4571
Motor stool	Cast iron EN-GJL- 250 ²⁾	Cast iron EN-GJL-250 ²⁾
Y-pipes	Cast iron EN-GJL- 250 ²⁾	-

²⁾ to EN 1561 (formerly GG-25)

Drive

Surface-cooled three-phase squirrel-cage motor, up to 2.2 kW 230/400 V, 3 kW and above 400/690 V, IP 55, insulation class F.
Units with integrated speed adjustment are described in the Etaline Hya-Drive Type Series Booklet 1149.51-10.

Bearings

Grease-lubricated deep-groove ball bearings.