

END SUCTION GLANDED PUMPS NMC/NML/NM & ECO FLEX™



▲ *reliable* ▲ *efficient* ▲ *quality*

SMEDEGARD
Pumping Technology

End Suction Glanded Pumps

Construction

These pumps are of the end suction configuration, close and long coupled, with back pull out facility to enable ease of maintenance. The units are of robust construction and highly efficient in operation, resulting in low running costs, achieved by an advanced design of volute and impeller.

Field of application

Industrial heating systems and a wide variety of industrial buildings services. Process applications including circulation, pressure boosting and general transfer duties. Liquids other than water which are non viscous and non corrosive can be pumped. Standard pumps are supplied suitable for working pressures up to 10 bar and a temperature range between -10°C to +120°C with a maximum ambient temperature of 40°C. 16 bar rated pumps are available on request.



Model identification

NMC	End suction - close coupled
NML	End suction - long coupled
S	Stainless Steel
Z	Bronze
4	Motor 4-pole (1450 rpm)
2	Motor 2-pole (2900 rpm)
50	Discharge port dia. in mm
250	Nominal impeller dia. in mm
11	kW
NMF(C)	(ECOFlex) Inverter Controlled

Standards (C)

Body dimensions and performance to EN 733
Pump performance to UNI EN ISO 9906
Motor to IEC60034-1

Impeller

All impellers are dynamically, statically and axially balanced resulting in higher efficiency and longer bearing life. The standard pump construction is cast iron with a cast iron impeller. However, on request, bronze impellers can also be fitted to cast iron bodied pumps.

Motors

Motors with standard shafts are fitted to all models ensuring easy maintenance. Heavy duty bearings are fitted and packed with vibration suppressing grease. Standard motors are Class F IP55. Other protection classes, voltages and enclosures available to special order.

Mounting

Upon request, we are able to offer a range of vibration dampening inverter bases. Either supplied loose or, the base concrete filled and the pump mounted.

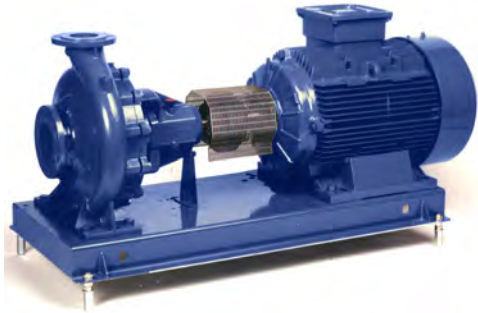


Materials of construction (Standard in Bold)

Pump casing:	Cast iron EN-GJL-250 Stainless Steel AISI 316 Bronze G-CuSn10
Impeller:	Cast iron EN-GJL-250 Stainless Steel AISI 316 Bronze G-CuSn10
Shaft:	Stainless steel AISI 316 or 431
Mech seal:	Standard seal Ceramic/Carbon, options available on request
"O" Rings:	EPDM rubber

Cast Iron casing with Bronze impeller and motor available on request

End Suction Glanded Pumps



NML Range

The NML range of single stage, end suction, long coupled pumps is supplied as a bare shaft unit or mounted on a mild steel baseplate with flexible coupling, guard and T.E.F.V. motor.



NMC Range

The NMC range of standard end suction, close coupled pumps is simple in construction requiring the minimum of maintenance.



MNF (L)(C) ECOFlexx Variable Speed

A range of variable speed controllers, time controllers and auto change over panels are available upon request. The Smedegaard range of ECOFlexx inverters is available for use with the above pumps. The ECOFlexx is suitable for pump mounting or, without modification, wall mounting. The ECOFlexx can be used to control the pump discharge pressure or the differential pressure across the pump. It also has the facility to operate the pump at a fixed speed. A further feature is that the ECOFlexx can provide a soft start thereby reducing mechanical stress to the pump and system as well as reduce noise.



Automatic ChangeOver

The Smedegaard ChangeGaard panel is designed to alternate a pair of pumps based on time as well as giving an auto change over facility in the event of a fault. ChangeGaard also features pump run/fault indication and remote fault indication.



Pump Curves

The pump curves detailed overleaf are representative of the close coupled (NMC) range only, Smedegaard are also able to offer long coupled pumps for duties up to 9000 l/min in 2 pole up to 30000 l/min in 4 pole.

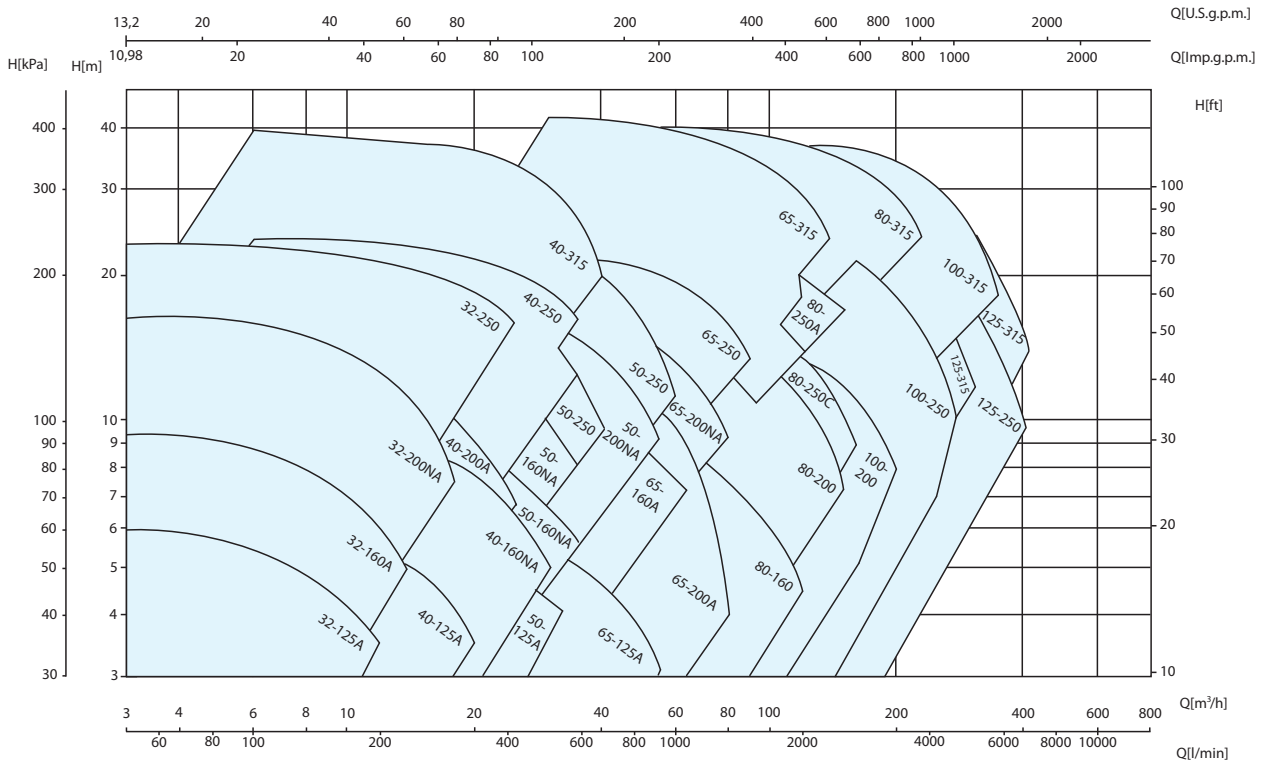
For smaller duties we offer a range of 2 pole, pressed stainless steel bodied pumps with female BSP connection, see above picture.



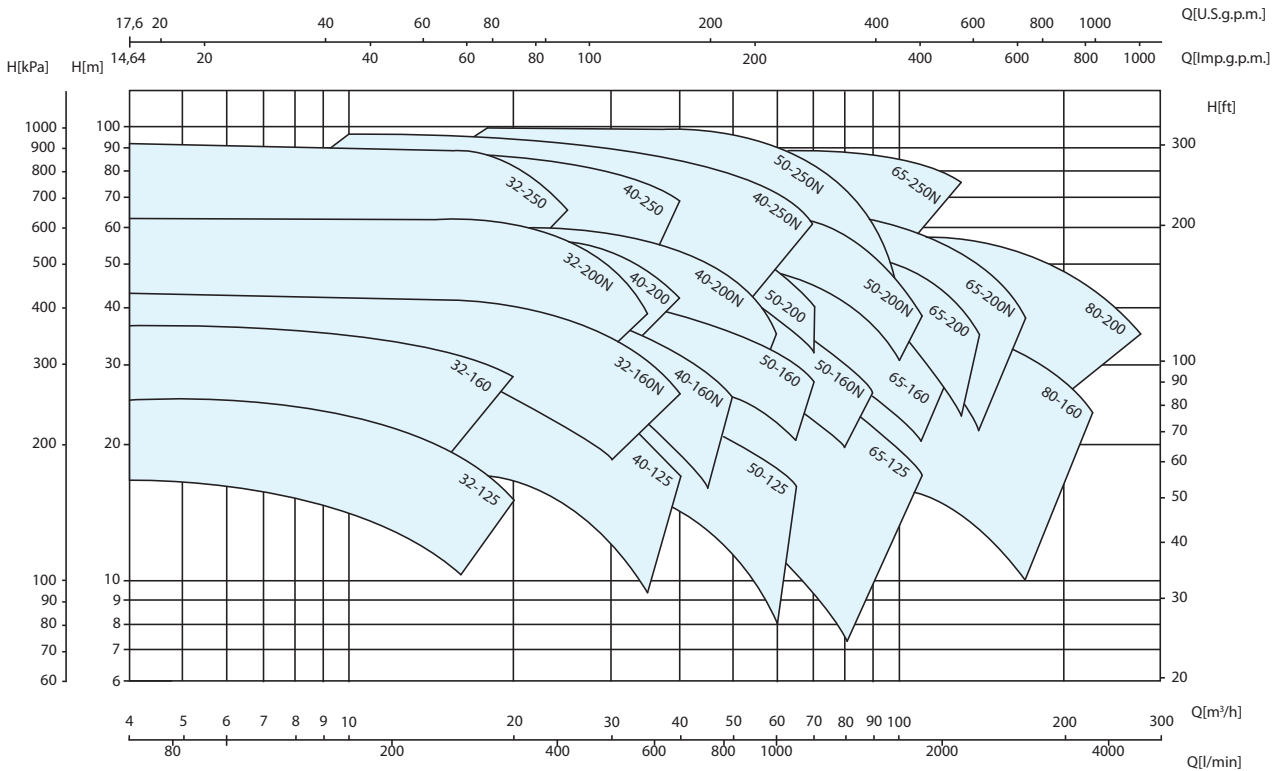
End Suction Glanded Close Coupled Pump Curves

For higher flow rates and other pump type curves please refer to Smedegaard.

4 Pole 1450 rpm



2 Pole 2900 rpm



It is Smedegaard's policy to continually improve and develop its product range. We reserve the right to change specifications without prior notice. Whilst every care has been taken to ensure the data is correct, no responsibility can be taken for inaccuracies or misprints.