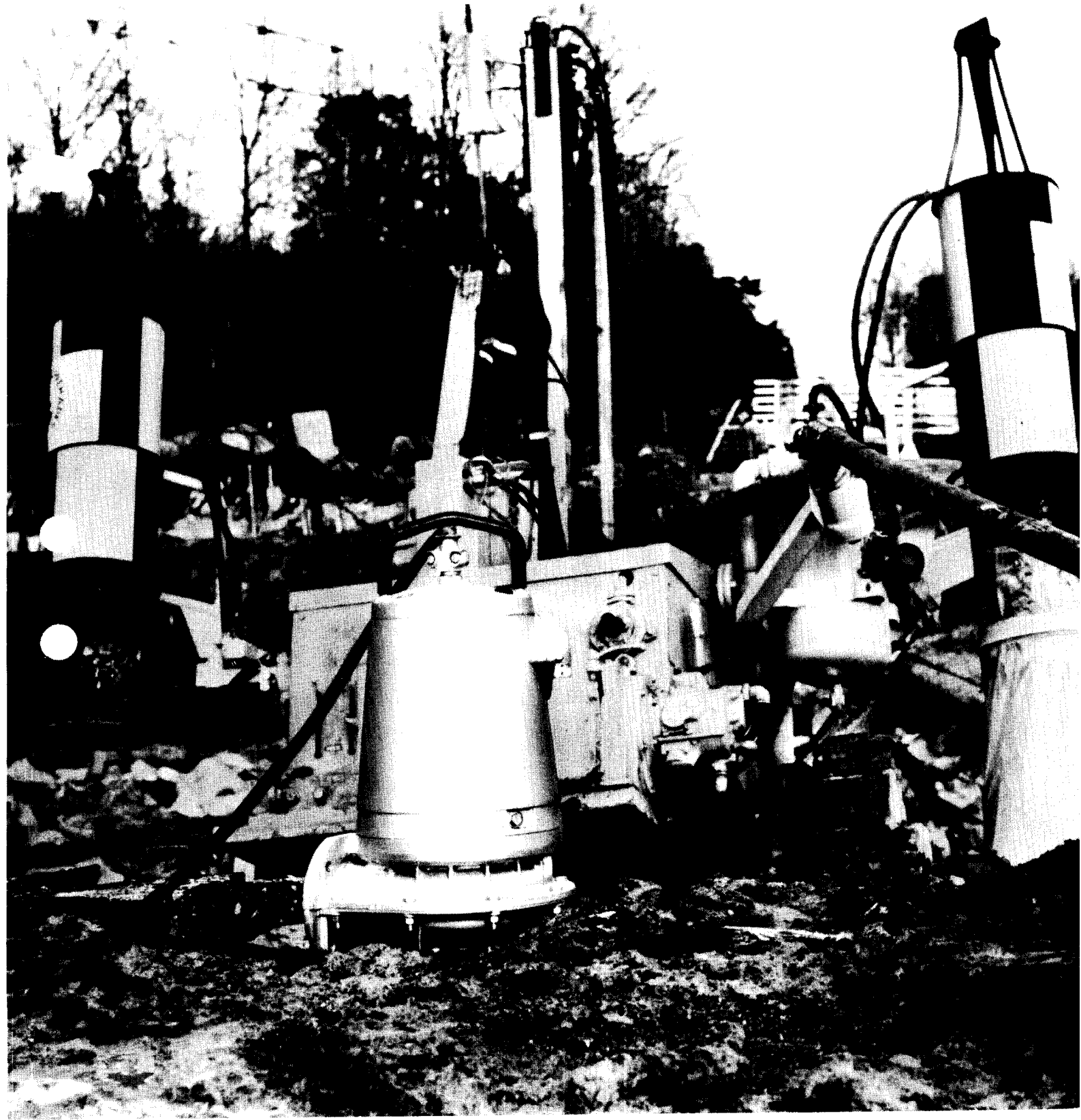


**DP/DS 3080**

**FLYGT**

# Technical Specification



## DP/DS 3080 – Slim portable dewatering pump for high heads and confined spaces

The DP/DS 3080 with its vortex impeller and rubber-lined volute is especially suited for pumping abrasive slurries, metal or wood chips and other suspended solids including fibrous material.

The pump does not require any attention – it can run dry without damage.

### Three pump materials

The pump is available in three materials:

- the 3080.210 is made of aluminium/magnesium alloy, hydronalium, and is a portable "one man" pump.
- the 3080.310 is made of cast iron and is better suited for abrasive sludge (sewage) applications.
- the 3080.480 is made of aluminium bronze and is mainly designed for sea water applications and for other marine use.

### Three performance characteristics

The pump is available with Medium Head (MT), High Head (HT) or Super High Head (ST) characteristics. All versions have non-clog vortex impellers located out of the main liquid flow and are available in Ni-hard, or Ni resist or aluminium bronze.

The rubber-lined pump casing separates into two parts to facilitate liner changing.

The flow passage is as large as 80 mm for the MT-version. The HT-version has a throughlet of 46 mm and the ST version 31 mm.

### Shaft seal:

The mechanical shaft seal incorporates independent twin seals. The inner seal, which runs in oil for long life, has a rotating ring of carbon and a stationary ring of tungsten carbide. The outer seal has both rotating and stationary rings made of tungsten carbide, the most wear-resistant material known.

**Motor:** Non-overloading in full performance range. Class F insulated stator rated 155°C, shrink-fit, improves cooling. Internal cooling system allows continuous pumping with motor above liquid level.

Thermal protectors embedded in stator provide additional motor protection.

**Shaft:** Stainless steel shaft. Upper bearing: single row ball bearing. Lower bearing: angular contact ball bearing.

**Hydraulic parts:** High strength two-piece pump casing with replaceable wear liners made of nitrile rubber. Wear-resistant vortex impeller and replaceable wear rings. Available in Ni-hard, Ni-resist or aluminium bronze.

### Installation

DS-versions:

- Portable installation with hose connection.

DP-versions:

- Fixed installation with sliding bracket and discharge connection.

The pump is prepared for installations requiring external cooling, i.e. pumping heavy sludge in dry installations or hot liquid applications.

### Accessories

A wide range of accessories including hose connections, power cables, zinc anodes, non-return valves, cable protection tubes, accessories for tandem connection, starters and special surface treatments are available.

### Technical data

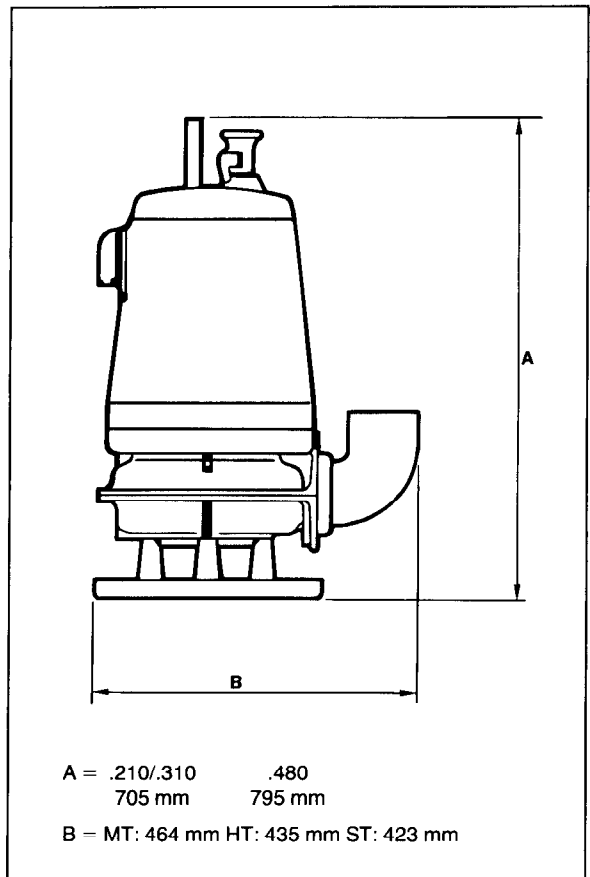
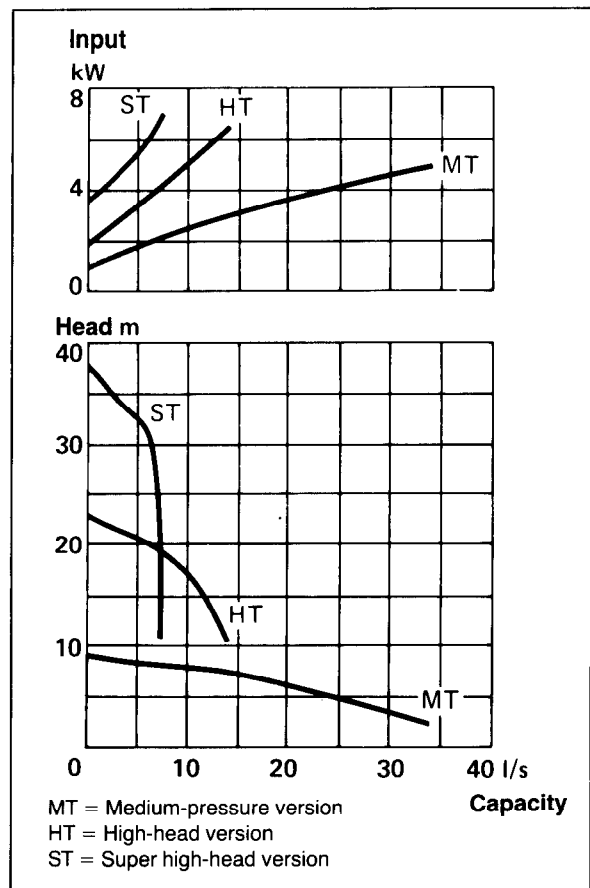
**Discharge connection:** ST 2". R 2", HT 3", R3", MT 4", R4". For hose or pipe.

**Motor:** 3-phase squirrel cage induction motor  
 MT-version: 3.8 kW at 1400 rpm  
 HT and ST-versions: 5.5 kW at 2800 rpm.

### Rated current (A):

	200V	380V	400V	415V	440V	500V	550V
MT:	15.2	8.8	8.4	8.0	7.6	6.7	6.1
HT, ST:	21	12	11.5	11	10.5	9.2	8.5

**Weight:** aluminium 60 kg  
 cast iron 97 kg  
 bronze 109 kg



The manufacturers reserve the right to alter performance specification or design without notice.

