Bore construction

DWS
HOW IS GROUNDWATER ACCESSED?

[Diagram of groundwater system with labels: MOTOR, SHAFT, TURBINE PUMP, AQUIFER, SCREEN, Bedrock, Ground level]
HEAD LOSSES UNDER PUMPING CONDITIONS

- Motor
- Shaft
- Standing water level
- Aquifer
- Turbine pump
- Screen
- Bedrock
HEAD LOSSES UNDER PUMPING CONDITIONS

Ground level

Motor

Aquifer

Shaft

Standing water level

Turbine pump

Aquifer losses

Bore losses

Screen

Bedrock
COMPONENTS OF DRAWDOWN

Aquifer

Standing water level

Aquifer loss

Laminar flow moving from high hydraulic head to low hydraulic head

Linear bore loss

Laminar flow through screen, gravel pack, disturbed aquifer

Non-linear bore loss

Turbulent flow through screen, pump intake
Drawdown response to aquifer types
System TDH, Energy & Pressure gradients
FLYGT GUIDE RAIL SYSTEM ADAPTER PLATE

EXISTING FLYGT RAIL FITTING

CHOKER CABLE