EARLY PUMPING ENGINES

Thomas Newcomen’s Atmospheric Engine, invented c.1705
for pumping water from a coal mine
“Industry & Technology,” W H Chaloner & A E Musson, 1965
(CIBSE Heritage Group Collection)

A closer inspection of the drawings in this section shows
the boilers and furnaces in use at the time
Thomas Savery designed a Steam Engine design for pumping water from mines and built a working engine in 1698 which was developed for practical use by Newcomen “The Technology of Man,” Derek Birsdall & Carlo Cipolla, 1980 (CIBSE Heritage Group Collection)
Savery & Newcomen Steam Engine for pumping water from a mine at Dudley in Staffordshire, 1712 (Birdsall & Cipolla)
Mr Watt’s Engine as used for pumping water at Chelsea Water Works

Boulton & Watt Steam Engine, developed from 1789 onwards
(This and above picture from Birdsall & Cipolla)
Cornish Pumping Engine developed by Richard Trevithick from 1811 (en.wikipedia.org)
ELEVATION OF PUMPING ENGINE.

BUILT FOR ST. DAY UNITED MINES.

Pumping Engine for St Day United Mines
(attackyour.net)
Taylor’s Pumping Engine appears similar to the picture which precedes it (sites.google.com)
Cornish Steam Engine used for pumping at Croydon Waterworks, 1868
“The Engineer: Highlights of 120 Years,” The Engineer, 1976
(CIBSE Heritage Group Collection)
Water Pumping Machines eventually increased in power, complexity and size like this Triple-Expansion Steam Engine at Havant Waterworks (portsmouthwater.co.uk)