

Some air cushion surge chambers in Norwegian hydropower plants

Power plant	Year	Max. air pressure MPa	Rock	Depth m	DIMENSION		
					Volume 1000 m ³	span m	height m
Driva	1973	4.2	banded gneiss	1100	7.35	12.5	10.3
Jukla	1974	2.4	granitic gneiss	340	6.05	12	12
Oksla	1980	4.4	granitic gneiss	625	18	17.5	14.5
Sima	1980	4.8	granitic gneiss	425	9.5	14.7	13
Osa	1981	1.9	gneissic granite	142	12.5	14	11.5
Kvilldal	1981	4.1	migmatitic gneiss	522	110	16	17 to 24
Tafjord	1982	7.7	banded gneiss	658	1.95	15	15
Brattset	1982	2.5	phyllite	150	8.9	10	10
Ulset	1985	2.8	mica gneiss	264	4.9	11	9
Torpa	1989	4.4	meta siltstone, quartzite	225	12	9	10