

# DIN EN 1918-2:2016-11 (E)

## Gas infrastructure - Underground gas storage - Part 2: Functional recommendations for storage in oil and gas fields

---

Contents	Page
European foreword .....	3
1 Scope .....	4
2 Normative references .....	4
3 Terms and definitions .....	5
3.1 Terms and definitions common to parts 1 to 4 of EN 1918 .....	5
3.2 Terms and definitions not common to parts 1 to 4 of EN 1918 .....	9
4 Requirements for underground gas storage .....	10
4.1 General .....	10
4.2 Underground gas storage .....	11
4.3 Long-term containment of stored gas .....	14
4.4 Environmental conservation .....	15
4.5 Safety .....	15
4.6 Monitoring .....	15
5 Design .....	15
5.1 Design principles .....	15
5.2 Field description and storage behaviour .....	16
5.3 Determination of the maximum operating pressure .....	17
5.4 Wells .....	18
5.5 Monitoring systems .....	22
5.6 Neighbouring subsurface activities .....	23
6 Construction .....	23
6.1 General .....	23
6.2 Wells .....	23
6.3 Completions .....	23
6.4 Wellheads .....	24
7 Testing and commissioning .....	24
8 Operation, monitoring and maintenance .....	24
8.1 Operating principles .....	24
8.2 Monitoring .....	24
8.3 Injection and withdrawal operations .....	25
8.4 Maintenance of wells .....	25
8.5 HSE .....	25
9 Abandonment .....	26
9.1 General .....	26
9.2 Withdrawal of the gas .....	27
9.3 Plugging and abandonment of wells .....	27
9.4 Surface facilities .....	27
9.5 Monitoring .....	27
Annex A (informative) Non-exhaustive list of relevant standards .....	28