

F17 STORING OR DISTRIBUTING GASES OR LIQUIDS (water supply E03B)

F17C VESSELS FOR CONTAINING OR STORING COMPRESSED, LIQUEFIED, OR SOLIDIFIED GASES; FIXED-CAPACITY GAS-HOLDERS; FILLING VESSELS WITH, OR DISCHARGING FROM VESSELS, COMPRESSED, LIQUEFIED, OR SOLIDIFIED GASES (storing fluids in natural or artificial cavities or chambers in the earth B65G 5/00; construction or assembling of bulk storage containers employing civil-engineering techniques E04H 7/00; variable-capacity gas-holders F17B; liquefaction or refrigeration machines, plants, or systems F25)

VESELS UNDER PRESSURE; VESSELS		FILLING; DISCHARGING.....	5/00, 6/00;
NOT UNDER PRESSURE; DETAILS	1/00; 3/00;		7/00, 9/00
	13/00	USE OF GAS-SOLVENTS OR GAS-ABSORBENTS	11/00

1/00 Pressure vessels, e.g. gas cylinder, gas tank, replaceable cartridge (pressurised apparatus for purposes other than storage, see the relevant subclasses such as A62C, B05B; associated with vehicles, see the appropriate subclass of classes B60 B64; pressure vessels in general F16J 12/00)

1/02 . involving reinforcing arrangements [4]

1/04 . . Protecting sheatings

1/06 . . . built-up from wound-on bands or filamentary material, e.g. wires [4]

1/08 . . Integral reinforcements, e.g. ribs

1/10 . with provision for protection against corrosion, e.g. due to gaseous acid (inhibiting corrosion of metallic material or incrustation in general C23F) [4]

1/12 . with provision for thermal insulation (thermal insulation in general F16L 59/00) [4]

1/14 . constructed of aluminium; constructed of non-magnetic steel

1/16 . constructed of plastics materials

3/00 Vessels not under pressure

3/02 . with provision for thermal insulation (thermal insulation in general F16L 59/00)

3/04 . . by insulating layers (F17C 3/08 takes precedence)

3/06 . . . on the inner surface, i.e. in contact with the stored fluid [4]

3/08 . . by vacuum spaces, e.g. Dewar flask (for household use A47J 41/02)

3/10 . . by liquid-circulating or vapour-circulating jackets

3/12 . with provision for protection against corrosion, e.g. due to gaseous acid (protection against corrosion in general C23F)

5/00 Methods or apparatus for filling pressure vessels with liquefied, solidified, or compressed gases (adding propellants to aerosol containers B65B 31/00)

This group covers:

- the filling of vessels for storage of compressed or liquefied gases;
- the filling of pressurised apparatus insofar as it is not covered by a single other subclass, e.g. A62C, B05B.

5/02 . for filling with liquefied gases

5/04 . . requiring the use of refrigeration, e.g. filling with helium or hydrogen

5/06 . for filling with compressed gases

6/00 Methods or apparatus for filling vessels not under pressure with liquefied or solidified gases [3]

7/00 Methods or apparatus for discharging liquefied, solidified, or compressed gases from pressure vessels, not covered by another subclass

7/02 . Discharging liquefied gases

7/04 . . with change of state, e.g. vaporisation [3]

9/00 Methods or apparatus for discharging liquefied or solidified gases from vessels not under pressure

9/02 . with change of state, e.g. vaporisation

9/04 . . Recovery of thermal energy [3]

11/00 Use of gas-solvents or gas-sorbents in vessels

13/00 Details of vessels or of the filling or discharging of vessels

13/02 . Special adaptations of indicating, measuring, or monitoring equipment (measuring in general G01)

13/04 . Arrangement or mounting of valves (valves per se F16K)

13/06 . Closures, e.g. cap, breakable member (closures for containers in general B65D)

13/08 . Mounting arrangements for vessels

13/10 . Arrangements for preventing freezing

13/12 . Arrangements or mounting of devices for preventing or minimising the effect of explosion (flame traps A62C 4/00)